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October 31, 2013

Mr. Michael Friend, P.E.
Special Projects Branch
Bureau of Corrective Actions
Nevada Division of Environmental Protection
2030 E. Flamingo Road, Suite 230
Las Vegas, Nevada 89119-0818

Dear Mr. Friend:

Re: Titanium Metals Corporation, Henderson, Nevada Facility, Facility ID #H000537
2013 Annual Groundwater Monitoring Report

This groundwater monitoring report is being submitted on behalf of Titanium Metals Corporation (TIMET). The report includes data collected during the 2nd semester of 2012 and 1st semester of 2013. Development of this report included consideration of NDEP comments to past reports completed by others. Due to the size of the report, a share-file link is being sent for electronic file access, and hard copies will be sent in accordance with the NDEP distribution list.

Please call me at 503-342-3774 if you have any questions.

Sincerely yours,

Rich Truax, PE
Senior Project Manager

cc: Richard Pfarrer, TIMET, hard copy & efile
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2013 Annual Groundwater Monitoring Report

Titanium Metals Corporation
181 North Water Street
Henderson, Nevada 89015

Prepared for:
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181 North Water Street
Henderson, Nevada 89015

Prepared by:
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October 2013

Project Number: 1323080

JURAT

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations, and ordinances.

For the services provided and attested to with this Jurat including preparation of the 2013 Annual Groundwater Monitoring Report.

GEI CONSULTANTS, INC.

Kelly R. McIntosh
Senior Consultant
Nevada Certified Environmental Manager
EM No. 2199; Expires September 24, 2015

Date Signed: October 31, 2013

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ABBREVIATIONS AND ACRONYMS

µg/L	Microgram per liter
µS/cm	Microsiemens per centimeter
BCL	Basic Comparison Level
BMI	Basic Management Incorporated
Broadbent	Broadbent & Associates, Inc.
BRC	Basic Remediation Company
CAB	Cation-anion balance
CDFriday	CdFriday & Associates
DO	Dissolved Oxygen
DVSR	Data validation summary report
EC	Electrical conductivity
ECA	Environmental conditions assessment
ECI	Environmental conditions investigation
ECIA	Environmental conditions investigation addendum
Eh	Reduction Potential
GEI	GEI Consultants, Inc.
LOU	Letter of understanding
MCL	Maximum contaminant level
MDC	Minimum detectable concentration
mg/L	Milligram per liter
MSSL	Medium-specific screening level
NDEP	Nevada Division of Environmental Protection
NTU	Nephelometric Turbidity Unit
ORP	Oxidation/reduction potential
Paragon	ALS-Paragon
pCi/L	Picocurie per liter
Plant Site	TIMET Plant Site Area
QC	Quality control
SC	Specific conductivity
SAP	Sampling and 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
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound

1. Introduction

GEI Consultants, Inc. (GEI) has prepared this Annual Groundwater Monitoring Report (hereinafter referred to as the "Annual Report") on behalf of Titanium Metals Corporation (TIMET) for the facility located at 181 North Water Street in Henderson, Nevada (hereinafter referred to as "subject property" or "site"). The subject property and regional geologic/topographic setting are identified on a shaded relief map on Figure 1.

This Annual Report is being submitted to the State of Nevada, Division of Environmental Protection (NDEP), pursuant to the reporting requirements of the Groundwater Remedial Action Operation and Maintenance Monitoring Sampling and Analysis Plan (Groundwater SAP), dated February 22, 2010 and comments regarding the Groundwater SAP provided by the NDEP on March 10, 2010. The groundwater monitoring program consists of four (4) main data collection sequences as summarized below:

- Semiannual groundwater data collection for the TIMET Plant Site Area (Plant Site) wells (BRW-R1, CLD1-R, CLD4-R, CMT-101, EWQal-12 , J2D1-R2, J2D2-R2, J2U1, J2U2, J2D4, M-129, M-130, TIMETMW-1, TIMETMW-3R, TIMETMW-4, TIMETMW-5, TIMETMW-6R, and former piezometers TMPZ-105 through TMPZ-112)

- Semiannual groundwater data collection from wells near the former southern site boundary along Lake Mead Parkway, considered upgradient (TMMW-101 through TMMW-104)

- Semiannual groundwater data collection from 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-024, PC-028, PC-054, PC-067, PC-124, POD2-R, and POU-3)

The above referenced monitoring well locations are identified on Figure 2.

This Annual Report summarizes groundwater data collected by Broadbent & Associates, Inc. (Broadbent) and validated by CdFriday & Associates (CDFriday) during the 2nd Semester of 2012 and the 1st Semester of 2013 at the subject property. The 2nd Semester 2012 sampling event was conducted from October 8 through November 28, 2012 and the 1st Semester 2013 sampling event was conducted from April 9 through May 9, 2013.

Previous analytical results for groundwater samples collected from the subject property are presented in the following reports:

- "Final Environmental Conditions Investigation Report." Tetra Tech, EM Inc. (Tetra Tech). 1998.

- "Environmental Conditions Investigation Addendum, Draft Report." Tetra Tech. 1999.
- "Quarterly Groundwater Monitoring Report – Semiannual Format, March 2000 to December 2003." Tetra Tech. 2004.
- "Revised Environmental Conditions Investigation Addendum Report." Tetra Tech. 2005.
- Quarterly and semiannual reports submitted on a quarterly or semiannual basis from 1st Quarter 2004 through 1st Semester 2011. Tetra Tech and TIMET. Various dates.
- Annual Groundwater Monitoring Report. TIMET. 2012.

This Annual Report supplements 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 organization of this Annual Report.

1.1 Project History

In 1991, NDEP entered into a Consent Agreement with six (6) of the companies, including TIMET, which have, or previously had, facilities at the Basic Management Incorporated (BMI) Complex. Three (3) 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 ECA Report, Titanium Metals Corporation, Henderson, Nevada" published by Law Engineering in 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. 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. In June 1996, NDEP entered into a Consent Agreement with TIMET to perform an ECI, remedial alternative studies, interim remedial measures, and/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, 1998) and the revised ECI Addendum (ECIA) Report (Tetra Tech, 2005). On December 1, 2003, NDEP sent a letter to TIMET providing NDEP's comments on the ECIA Report. 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.

This Annual Report is submitted in partial fulfillment of TIMET's response to NDEP's recommendation for accelerated groundwater work and is in accordance with TIMET's 2007 Generic Site-Wide SAP, the 2010 Groundwater SAP, and NDEP's comments to the 2010 Groundwater SAP.

1.2 Purpose and Scope

The groundwater monitoring activities documented in this Annual Report were 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). The objectives of the groundwater investigation are 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 and hydrogeology.

The following activities were conducted on a semiannual basis during the latest groundwater monitoring period (i.e., 2nd Semester 2012 and 1st Semester 2013):

- Gauged depth to groundwater in wells relative to the top of casing (TOC) of the wells.
- Collected groundwater samples for field and laboratory analyses using micro-purge sampling techniques.
- Evaluated basic groundwater hydrology and water quality data.
- Analyzed groundwater data for trends, and compared data with NDEP Basic Comparison Levels (BCLs) and/or the maximum contaminant levels (MCLs) established by the United States Environmental Protection Agency (USEPA). For clarity and consistency, the BCLs and/or MCLs for applicable contaminants are referred to as "comparison levels" throughout this Annual Report.

The following data gaps and variances from the established monitoring plan were realized during the latest groundwater monitoring period:

- During the 2nd Semester 2012 and 1st Semester 2013 sampling events, data collection was attempted at well locations summarized in Section 1 and identified on Figure 2. However,

during both sampling events, well locations AA-11, AA-15, AA-19, J2U1, and POD2-R did not produce sufficient water to collect samples for chemical analysis.

- Sampling of well J2D3-R was replaced by sampling of EWQal-12 during both events discussed in this Annual Report. As documented in TIMET's 2012 Annual Report, well J2D3-R does not appear to be appropriately screened for current subsurface conditions.

- Wells CLD2-R and CLD3-R were properly abandoned on February 2, 2010 due to their location within the alignment of a proposed slurry wall. Well CMT-101 was sampled during both events discussed in this Annual Report to address this data gap.

- TMPZ-111 and TMPZ-112 were only sampled during the 1st Semester 2013 sampling event (i.e., these wells were not sampled during the 2nd Semester 2012 sampling event).

Table 1 lists applicable wells and the sampling design implemented for this monitoring period to address specific analyte data needs in accordance with the 2010 Groundwater SAP and associated NDEP comments.

1.3 Report Organization

The remainder of this report is organized into the following three (3) sections:

- **Section 2. Groundwater Monitoring Program** – Describes each component of the groundwater monitoring program, including field analytical methods implemented.

- **Section 3. Groundwater Monitoring Data** – Summarizes groundwater conditions and analytical results of groundwater sampling activities, and includes an assessment of the distribution of contaminants and an evaluation of trends in concentrations of contaminants.

- **Section 4. References** – Lists the references cited in this report.

Appendix A contains response to comments (reserved for future use). Appendix B contains groundwater sampling field data forms for both sampling events conducted during the latest monitoring period. Appendix C contains hydrographs (i.e., groundwater elevation versus time) for applicable monitoring wells. Appendix D contains concentration trend graphs for selected analytes in applicable monitoring wells. Appendix E contains isoconcentration maps for selected analytes based on the results of the latest two (2) monitoring events (i.e., 2nd Semester 2012 and 1st Semester 2013).

2. 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, 1998). 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 and has been continued thereafter. Current groundwater sampling procedures were conducted by Broadbent in general accordance with the 2007 Generic Site-Wide SAP and the 2010 Groundwater SAP, both of which were prepared by TIMET.

Monitoring wells included in the groundwater monitoring program, requisite analyses, and pertinent notes are summarized in Table 1. Monitoring well construction details are summarized in Table 2. Monitoring well locations are identified on Figure 2. Details of the current groundwater monitoring program, including well measurements, sample collection procedures, equipment decontamination procedures, management of investigation-derived waste (IDW), and the laboratory analytical program are provided in the following subsections, respectively. The results of the groundwater monitoring activities documented in this section are detailed in Section 3.

2.1 Well Measurements

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

2.2 Sample Collection

Samples were collected by Broadbent on behalf of TIMET using equipment rented and/or purchased from Field Environmental Instruments, Inc. ALS-Paragon (Paragon) of Fort Collins, Colorado supplied Broadbent 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 were 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, oxidation/reduction potential (ORP), specific conductivity (SC),

temperature, dissolved oxygen (DO), and turbidity were measured at 3-minute intervals and recorded on groundwater sampling forms. Copies of completed field sampling forms for each well sampled during the latest monitoring period are provided in Appendix B.

Purging was considered complete after a minimum of three (3) 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 SC, and ± 10 percent for turbidity and DO. 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 (VOCs) and radon-222, followed by filling the rest of the sample bottles. Table 5 of the 2007 Generic Site-Wide SAP details the types and volumes of sampling containers required for each analysis.

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.

Broadbent's 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 use at each well. Portable pumps were 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 which were discharged to the on-site wastewater treatment plant. Miscellaneous waste, such as personal protective equipment, disposable sampling equipment, polyethylene sheeting, and general trash, were disposed as municipal solid waste.

2.5 Analytical Program

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

Paragon performed the sample analyses for these events. 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). The groundwater analytical data produced during the sampling events documented in this Annual Report are summarized and evaluated in Data Validation Summary Reports that were submitted to the NDEP in March 2013, for the 2nd Semester 2012 sampling event, and October 2013, for the 1st Semester 2013 sampling event.

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 (3) 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).

Data deliverables from Paragon include hardcopy reports, electronic format of hardcopy reports (in portable document format), and electronic data deliverables (EDD).

3. Groundwater Monitoring Data

Physical groundwater conditions (i.e., depth to groundwater, hydraulic gradient, etc.) and laboratory analytical results reported during the latest two (2) groundwater monitoring events are detailed in the following subsections of this Annual Report. Figure 2 shows the location of each monitoring well sampled during these events. Table 1 summarizes the analytical suite conducted for each of the sampled wells.

3.1 Physical Groundwater Conditions

Depth to groundwater and groundwater elevations measured in each program monitoring well during the latest two (2) monitoring events, as well as historic monitoring events dating back as far as 2000, are summarized in Table 3. In addition, hydrographs showing groundwater elevation fluctuations in each program monitoring well, as far back as 2000, are presented in Appendix C.

As demonstrated in the Table 3, depth to groundwater values as measured during the 2nd Semester 2012 and 1st Semester 2013 ranged from 10.49 feet below grade (PC-028, 2nd Semester 2012) to 70.82 feet below grade (TMMW-104, 2nd Semester 2012). Groundwater elevations ranged from 1,579.62 feet above mean sea level (MSL) (DBMW-4, 2nd Semester 2012) to 1,819.61 feet above MSL (TMMW-102, 1st Semester 2013). These values are generally consistent with historic physical groundwater data, which show a depth to groundwater range from 11.35 feet below grade (PC-028, 2nd Semester 2011) to 75.46 feet below grade (TMMW-101, January 2008) and a groundwater elevation range from 1,578.85 feet below grade (DBMW-4, 1st Semester 2012) to 1,818.94 feet below grade (TMMW-102, 2nd Semester 2011).

During the most recent monitoring activities, water was detected in wells J2U1, AA-11, AA-15, and POD-2R; however, there was not a large enough water column in any of the wells to collect a sample for chemical analysis (*see* Section 3.2). Monitoring well AA-19 was completely dry during both of the latest groundwater monitoring events.

Groundwater elevation contour maps for the 2nd Semester 2012 sampling event and the 1st Semester 2013 sampling event are provided as Figures 3 and 4, respectively. As indicated in the aforementioned figures, groundwater consistently flows toward the north, mimicking the topographic slope toward the Las Vegas Wash. The horizontal hydraulic gradient measured during the latest monitoring period was approximately 0.02 during both the 2nd Semester 2012 and 1st Semester 2013 events, which is consistent with historic hydraulic gradients measured on the subject property.

3.2 Analytical Results

This section summarizes the distribution of analytes in groundwater for the 2nd Semester 2012 and 1st Semester 2013 sampling events. Data from these events 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 significantly 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 each analyte, 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.

The well-specific laboratory analytical results of the 2nd Semester 2012 and 1st Semester 2013 groundwater sampling events, including validation qualifiers, are summarized on Tables 4 through 48. In addition to the most recent analytical results, each table (as applicable) summarizes the previous two (2) semi-annual sampling results (i.e., 2nd Semester 2011 and 1st Semester 2012) and lists the highest and lowest concentrations of each contaminant of concern that has been reported in each well since 2000 (or the first time the well was sampled, if the well was incorporated into the monitoring program after 2000). The tables also identify the comparison levels for each contaminant. Values or detection limits reported above the comparison levels are highlighted.

Contaminant concentration trend graphs for selected analytes from the period of July 2007 to April 2013 are provided in Appendix D. Isoconcentration maps for selected analytes for both of the latest monitoring events are provided in Appendix E. Narrative descriptions of the analytical

results of the latest two (2) sampling events, arranged by the nature of constituents, are provided in the following subsections.

3.2.1 Field Monitoring Data

During well purging/sampling activities, field measurements of pH, ORP, SC, temperature, DO, and turbidity were recorded at 3-minute intervals (*see* Section 2.2 and Appendix B). The stabilized field parameter values for each well during the 2nd Semester 2012 and 1st Semester 2013 sampling events are summarized on Figures 5 and 6, respectively. The ranges in field parameter values as portrayed on Figure 5 and 6 (and Appendix B) are summarized in the table below.

	pH	**ORP (Eh)**	**SC (µS/cm)**	**Temperature (Celsius)**	**DO (mg/L)**	**Turbidity (NTU)**
High	7.99 (BRW-R1, 1st Semester 2013)	276 (J2D4, 1st Semester 2013)	23,860 (TMPZ-107, 2nd Semester 2012)	27.65* (M-130, 1st Semester 2013)	8.17 (TMMW-102, 1st Semester 2013)	329 (M-129, 2nd Semester 2012)
Low	5.15 (AA-UW1, 2nd Semester 2012)	-106.8 (DBMW-4, 2nd Semester 2012)	3.798 (TMPZ-111, 1st Semester 2013)	21.07 (TMMW-101, 1st Semester 2013	0.23 (TMPZ-107, 2nd Semester 2012)	0.12 (TMMW-104 and AA-27, 2nd Semester 2012)

Eh Reduction Potential
µS/cm Microsiemens per centimeter
mg/L Milligram per liter
NTU Nephelometric Turbidity Unit
* The temperature in well CMT-101 was reportedly 35.99° Celsius during the 1st Semester 2013 sampling event; however, it is possible that this value was incorrectly reported, or that the field instrument was not properly calibrated, as 35.99° Celsius is an anomalous value (*see* Figures 5 and 6).

3.2.2 Anions and Total Dissolved Solids

The dominant anions comprising the TDS observed in groundwater on and around the subject property are sulfate and chloride; however perchlorate concentrations are also considerable due to its relatively low comparison level. TDS, perchlorate, sulfate, and chloride were reported at concentrations above the respective comparison levels of 1,900 mg/L, 0.018 mg/L, 250 mg/L, and 4 mg/L in every sampled well during the latest monitoring period, with the exception of TDS in upgradient offsite monitoring well TMMW-102. The greatest TDS concentration reported in TMMW-102 during the latest monitoring period was 1,300 mg/L during the 2nd Semester 2012 sampling event.

TDS concentrations are generally lowest in upgradient offsite wells (TMMW wells), and increase downgradient. The greatest TDS concentrations (greater than 10,000 mg/L) were reported in monitoring wells on the downgradient property boundary (TMPZ-107 and TMPZ-108) during both of the latest monitoring events; however, comparable TDS concentrations were reported in offsite downgradient monitoring wells PC-067, PC-024, and DBMW-3 (*see* Figures 1 and 2 in Appendix E). As Figures 1 through 4 in Appendix D show, TDS concentrations are generally stable in project area monitoring wells (on and offsite), with the exception of wells TMPZ-108 and CMT-101, which exhibit decreasing trends.

During the latest monitoring period, reported perchlorate concentrations ranged from 0.027 mg/L (TMMW-104, 1st Semester 2013) to 350 mg/L (PC-028, 2nd Semester 2012). The greatest perchlorate concentrations (approximately 200 mg/L to 300 mg/L) were reported in downgradient offsite wells PC-054 and PC-028 and the lowest perchlorate concentrations (0.06 mg/L or less) were reported in upgradient offsite wells TMMW-102 and TMMW-104. Perchlorate concentrations in Plant Site wells ranged from 0.13 mg/L (TIMETMW-4, 2nd Semester 2012) to 81 mg/L (M-129, 1st Semester 2013). Perchlorate concentration isopleth maps for the 2nd Semester 2012 and 1st Semester 2013 sampling events are provided as Figures 3 and 4 in Appendix E, respectively.

Generally, sulfate concentrations are lowest (i.e., less than 1,000 mg/L) in upgradient wells (TMMW wells), and increase downgradient past the subject property, with the greatest concentrations (approximately 3,000 mg/L to 4,000 mg/L) reported in downgradient offsite well DBMW-3 (*see* Figures 5 and 6 in Appendix E). As Figures 7 and 8 in Appendix E show, chloride concentrations are greatest in Plant Site wells on the northern portion of the site and offsite downgradient wells, and lowest in upgradient offsite wells (TMMW wells). The greatest chloride concentration reported during the latest monitoring period was 9,500 mg/L in TMPZ-107 during the 1st Semester 2013 sampling event.

No anomalous concentrations (i.e., significantly greater or less than historic concentrations) of TDS, perchlorate, sulfate, or chloride were reported during the latest monitoring period.

3.2.3 Cation-Anion Balance and Total Dissolved Solids Ratios

In late September 2009, NDEP released a letter regarding the analysis and evaluation of CAB in groundwater. This analysis and evaluation was conducted during this reporting period and included: (1) CAB, (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[1] – bicarbonate, carbonate, chloride, fluoride, nitrate as nitrogen, perchlorate, and sulfate

[1] Hydroxide was not included in the anion calculation because the pH of the groundwater was less than 10.

- Cations – calcium, magnesium, potassium, and sodium

The CAB, measured TDS versus calculated TDS, and the TDS versus EC for the latest monitoring period are discussed in the following subsections, respectively.

3.2.3.1 Cation-Anion Balance

The acceptable difference between the anion and cation sums is 5 percent. Several wells sampled during the latest monitoring period exhibited unacceptable CAB results (i.e., the difference between the anion and cation sums is greater than 5 percent). The following wells did not meet the 5 percent CAB criterion during the 2nd Semester 2012 sampling event:

- AA-20, BRW-R1, EWQal-12, J2U2, M-129, PC-124, TMPZ-105, TMPZ-106, TMPZ-107, and TMPZ-108. The aforementioned wells represent approximately 26 percent of the sample population for which CAB evaluations were conducted. CAB evaluations were not conducted during this sampling event on wells M-130 and CMT-101 because of an incomplete data set. The CAB evaluations for this monitoring event are summarized on Table 47.

The following wells did not meet the 5 percent CAB criterion during the 1st Semester 2013 sampling event:

- AA-01, AA-20, AA-27, CLD1-R, CLD4-R, DBMW-3, EWQal-12, J2D4, TIMETMW-3R, TIMETMW-6R, PC-124, PC-067, POU-3, TMMW-101, TMPZ-105, TMPZ-107, and TMPZ-110. The aforementioned wells represent approximately 47 percent of the sample population for which CAB evaluations were conducted. CAB evaluations were not conducted during this sampling event on wells CMT-101, M-129, M-130, TMPZ-106, TMPZ-108, and TMPZ-109 because of an incomplete data set. The CAB evaluations for this monitoring event are summarized on Table 48.

The total number of wells (22) that did not meet the 5 percent CAB criterion during this monitoring period has increased from seven (7) wells that did not meet the criterion during the last monitoring period (i.e., 2nd Semester 2011 and 1st Semester 2012) as documented in TIMET's October 18, 2012 Annual Report.

3.2.3.2 Measured Total Dissolved Solids Versus Calculated Total Dissolved Solids

For the evaluation of measured TDS versus calculated TDS, the same anions and cations listed in Section 3.2.3.1 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 during the 2nd Semester 2012 sampling event:

- J2D2-R2 and PC-054. The aforementioned wells represent approximately 5 percent of the sample population for which TDS ratios were calculated. TDS ratio calculations were not conducted during this sampling event on wells M-130 and CMT-101 because of an incomplete data set. The TDS ratio calculations for this monitoring event are summarized on Table 47.

The TDS ratio was unacceptable for the following wells during the 1st Semester 2013 sampling event:

- TMPZ-107 and PC-054. The aforementioned wells represent approximately 6 percent of the sample population for which TDS ratios were calculated. TDS ratio calculations were not conducted during this sampling event on wells CMT-101, M-129, M-130, TMPZ-106, TMPZ-108, and TMPZ-109 because of an incomplete data set. The TDS ratio calculations for this monitoring event are summarized on Table 48.

The total number of wells (3) that did not meet the TDS ratio during this monitoring period has decreased from eight (8) wells that did not meet the criterion during the last monitoring period (i.e., 2nd Semester 2011 and 1st Semester 2012) as documented in TIMET's October 18, 2012 Annual Report.

3.2.3.3 Total Dissolved Solids Versus Electrical Conductivity

For the evaluation of TDS versus EC, the ratio of TDS against the field measurement of EC was calculated. NDEP's acceptable range is 0.54 to 0.96. TDS versus EC calculations for the 2nd Semester 2012 and 1st Semester 2013 sampling events are provided on Table 47 and 48, respectively. Plots of TDS versus EC values for the 2nd Semester 2012 and 1st Semester 2013 sampling events are provided as Figures 7 and 8, respectively.

All samples collected during this monitoring period exhibited acceptable results for TDS to EC ratio. This is generally consistent with historic TDS versus EC results as documented in TIMET's October 18, 2012 Annual Report, where all samples passed TDS versus EC evaluation with the exception of the 1st Semester 2012 sample collected from well AA-01.

3.2.4 Metals

3.2.4.1 Arsenic

Arsenic was reported at concentrations above the comparison level (10 µg/L) in every well sampled during both of the latest monitoring events (*see* Figures 9 and 10 in Appendix E). Wells located along the western property boundary exhibit the greatest arsenic concentrations (as high

as 400 µg/L in CLD4-R during the 1st Semester 2013 sampling event) with concentrations decreasing to the east and south. As depicted on Figures 5 through 7 in Appendix D, arsenic concentrations are relatively stable in upgradient, Plant Site, and offsite downgradient monitoring wells, with the exception of Plant Site wells CLD4-R and TMPZ-105, which exhibit decreasing trends, and downgradient offsite wells PC-067 and PC-028, which exhibit increasing trends.

3.2.4.2 Chromium

Chromium was reported at concentrations above the comparison level (100 µg/L) in wells located in the northwestern portion of the Plant Site during both of the latest sampling events (*see* Figures 11 and 12 in Appendix E). The chromium observed in groundwater is primarily comprised of hexavalent chromium, which also has a comparison level of 100 µg/L (*see* Figures 13 and 14 in Appendix E).

As the contours depict, total chromium and hexavalent chromium concentrations are the greatest at the northwestern corner of the subject property and northwest of the site. The greatest chromium and hexavalent chromium concentrations reported during the latest monitoring period are 1,300 µg/L (PC-054, both sampling events) and 1,200 µg/L (CLD1-R, 2nd Semester 2012 sampling event), respectively. As portrayed on Figures 8 through 11 in Appendix D, total chromium concentrations appear to be relatively stable in each of the project monitoring wells (i.e., upgradient, Plant Site, and downgradient), with the exception of Plant Site Wells CMT-101, J2U2, and CLD1-R, which exhibit increasing trends, and offsite downgradient wells PC-054, PC-028, and PC-067, which exhibit decreasing trends.

3.2.4.3 Uranium

Uranium was reported at concentrations above the comparison level (30 µg/L) in most wells located in the north half of the Plant Site, as well as offsite to the north, during the latest sampling events (Figures 15 and 16 in Appendix E). The Plant Site wells with the greatest uranium concentrations were TMPZ-110 (120 µg/L during the 2nd Semester 2012 event) and J2U2 (120 µg/L during the 1st Semester 2013 event). PC-067 was the offsite well with the greatest uranium concentrations during both sampling events (130 µg/L during the 2nd Semester 2012 sampling event and 150 µg/L during the 1st Semester 2013 sampling event). As portrayed on Figures 12 through 15 in Appendix D, offsite uranium concentrations (upgradient and downgradient) are relatively stable, except for downgradient well PC-054 which exhibits a decreasing trend, low range onsite uranium concentrations exhibit slight increasing trends, and high range onsite uranium concentrations exhibit decreasing trends.

3.2.4.4 Manganese

The greatest manganese concentrations during the latest monitoring period were reported in CLD4-R, which is located on the western property boundary. Manganese was reported in

CLD4-R at concentrations of 2,900 µg/L and 950 µg/L during the 2nd Semester 2012 sampling event and the 1st Semester 2013 sampling event, respectively (*see* Figures 17 and 18 in Appendix E). The comparison level for manganese is 50 µg/L.

Figures 16 through 18 in Appendix D show that manganese concentrations are generally stable in most wells, with the exception of TMMW-101 (upgradient, offsite) and PC-054 (downgradient, offsite) which exhibit decreasing trends and CLD4-R (Plant Site) and PC-067 (downgradient, offsite), which exhibit increasing trends. It should be noted that the comparison level for manganese is a secondary MCL, which means that the 50 µg/L value is based on cosmetic/aesthetic effects, not necessarily health-based effects.

3.2.4.5 Vanadium

During the latest two (2) monitoring events, vanadium was reported at concentrations of 1,400 µg/L (2nd Semester 2012) and 14,000 µg/L (1st Semester 2013) in monitoring well CLD4-R. Both of the aforementioned values are significantly greater than vanadium concentrations reported in the other project area wells, which ranged from 10 µg/L (TMMW-103, 2nd Semester 2012) to 220 µg/L (TMPZ-106, 2nd Semester 2012 – *see* Figures 19 and 20 in Appendix E). The comparison level for vanadium is 182.5 µg/L. The results of historic groundwater monitoring activities have shown significant fluctuations in CLD4-R vanadium concentrations, while vanadium concentrations in other site wells are considerably lower and more stable (*see* Figures 19 through 21 in Appendix D). Based on the vanadium data collected to date, it appears that the elevated/unstable vanadium concentrations are isolated to CLD4-R.

3.2.4.6 Lithium

Lithium was reported at concentrations above the comparison level of 73 µg/L in each well sampled during the latest monitoring period, with the exception of upgradient wells TMMW-102 and TMMW-104 during the 2nd Semester 2012 sampling event, where lithium was reported at concentrations of 63 µg/L and 66 µg/L, respectively. As Figures 22 through 24 in Appendix D and Figures 21 and 22 in Appendix E show, lithium concentrations show significant variations between the 2nd Semester 2012 sampling event and the 1st Semester 2013 sampling event.

During the 2nd Semester 2012 sampling event, the greatest lithium concentration (770 µg/L) was reported in monitoring well CLD4-R, on the western property boundary and during the 1st Semester 2013 sampling event, the greatest lithium concentration (740 µg/L) was reported in monitoring well TMPZ-107, on the northern property boundary.

Evaluation of Figures 22 through 24 in Appendix D shows that, with the exception of the 1st Semester 2013 sampling results, lithium concentrations are generally decreasing in upgradient, Plant Site, and downgradient wells. The 1st Semester 2013 sampling results appear to be greater than historic results in upgradient, Plant Site, and downgradient monitoring wells.

3.2.4.7 Zirconium

Subsequent to the submission of the 2012 Annual Report, a comparison level for zirconium was established by the NDEP. Prior to 2013, there was no established comparison level for zirconium. Further, the zirconium comparison level of 2.92 µg/L is relatively stringent (low). As demonstrated in Tables 4 through 46, the zirconium concentrations reported during the latest monitoring period are generally consistent with historic results, however, due to the establishment of the new comparison level, several monitoring wells exhibit exceedances for zirconium. An evaluation of potential health impacts/risks associated with zirconium will be presented in the 2014 Annual Report, as applicable.

3.2.5 Radionuclides

Radionuclides reported at concentrations above the comparison levels during the latest monitoring period include thorium-228, 230, and 232; gross alpha; gross beta; and radon-222. The comparison levels for the aforementioned constituents are 0.110 pCi/L, 0.042 pCi/L, 0.140 pCi/L, 15 pCi/L, 50 pCi/L, and 300 pCi/L (proposed), respectively.

None of the above referenced radionuclides are pervasively present at concentrations above the comparison levels in groundwater on and around the subject property, with the exception of radon-222 (*see* Tables 4 through 27). Radon-222 was reported at concentrations above the comparison level of 300 pCi/L throughout the BMI Complex and the Plant Site during both sampling events of this monitoring period.

As shown on Figures 23 and 24 in Appendix E, radon-222 concentrations are generally lowest in upgradient wells (albeit still above the comparison level of 300 pCi/L), and increase downgradient to the center of the site and the northern site boundary, with the greatest radon-222 concentrations reported in Plant Site well TMPZ-107 (3,230 pCi/L during the 2nd Semester 2012 and 3,200 pCi/L during the 1st Semester 2013) on the northern site boundary.

The radon-222 concentrations reported during this monitoring period are generally consistent with historic radon-222 results as documented in TIMET's October 18, 2012 Annual Report. As Figures 25 and 26 in Appendix D show, radon-222 concentrations generally range from 200 pCi/L to 1,000 pCi/L in offsite upgradient wells and less than 500 pCi/L to greater than 3,000 pCi/L in Plant Site wells. Further evaluation of the aforementioned figures shows that, in general, radon concentrations are stable, with the exception of the upgradient offsite wells (TMMW wells) and Plant Site well TMPZ-109 which exhibit slight increasing trends, and Plant Site wells TMPZ-108, J2D3, and TMPZ-112 which exhibit decreasing trends.

3.2.6 Volatile Organic Compounds

VOCs reported at concentrations above the respective comparison levels in groundwater during the latest monitoring period include tetrachloroethene (PCE); trichloroethene (TCE); total trihalomethanes (TTHM); carbon tetrachloride; 1,1-dichloroethene; and 1,2-dichloropropane. A

discussion of the PCE, TCE, and total TTHM analytical results during the latest monitoring period are presented in the following subsections, respectively. 1,1-dichloroethene; 1,2-dichloropropane; and carbon tetrachloride are not discussed below, as only minimal and or sporadic/anomalous/offsite exceedances of the comparison levels were reported during the latest monitoring period (see wells CLD4-R, TIMETMW-3R, TMPZ-107, TMPZ-111, AA-UW1, PC-024, PC-067, and POU-3 on Tables 6, 16, 22, 26, 36, 41, 44, and 46, respectively).

3.2.6.1 Tetrachloroethene

The distribution of PCE is depicted on Figures 25 and 26 in Appendix E. As shown in the aforementioned figures, the greatest PCE concentrations during the latest monitoring period were reported in monitoring wells AA-01 (72 µg/L, 2nd Semester 2012) and TMPZ-111 (65 µg/L, 1st Semester 2013). Elevated PCE concentrations were also reported in site monitoring well J2D2-R2 during both of the latest monitoring events (68 µg/L, 2nd Semester 2012 and 62 µg/L, 1st Semester 2013). The comparison level for PCE is 5 µg/L.

The downgradient extent of the PCE plume is defined by PCE concentrations less than 5 µg/L reported in monitoring wells DBMW-1, DBMW-3, DBMW-4, and DBMW-5. As Figures 27 through 29 in Appendix D demonstrate, PCE concentrations in upgradient, Plant Site, and downgradient monitoring wells are generally stable or decreasing, with decreasing trends apparent for Plant Site wells J2D4, J2D2-R2, J2U2, J2D1-R2, and TMPZ-108, and downgradient offsite wells AA-01 and PC-067.

3.2.6.2 Trichloroethene

TCE was reported at concentrations above the comparison level of 5 µg/L in the following wells during the latest monitoring period: J2D2-R2, J2D4, J2U2, TIMETMW-3R, TIMETMW-1, and TMPZ-109. The greatest TCE concentration reported during the latest monitoring period was 19 µg/L in well TIMETMW-3R during the 2nd Semester 2012 sampling event. The TCE plume appears to be localized to the southern and central portions of the site with general decreasing concentration trends (*see* Figure 30 in Appendix D).

3.2.6.3 Total Trihalomethanes

As depicted on Figures 27 and 28 in Appendix E, TTHMs are prevalent at concentrations above the comparison level of 80 µg/L throughout the northwestern portion of the subject property, as well as offsite to the north (downgradient). The greatest TTHM concentrations (1,403.18 µg/L, 2nd Semester 2012 and 1,102.23 µg/L, 1st Semester 2013) were reported in monitoring well TMPZ-107 during both of the latest sampling events; however, significant concentrations of TTHMs (i.e., several hundred µg/L) were reported in wells along the western property boundary (M-129, M-130, CLD4-R, etc.). As depicted in Figures 31 through 34 in Appendix D, TTHM concentrations in groundwater appear to be relatively stable in offsite (upgradient and

downgradient) wells and Plant Site wells, except for Plant Site wells J2U2, CLD4-R, and TMPZ-107 which exhibit decreasing trends.

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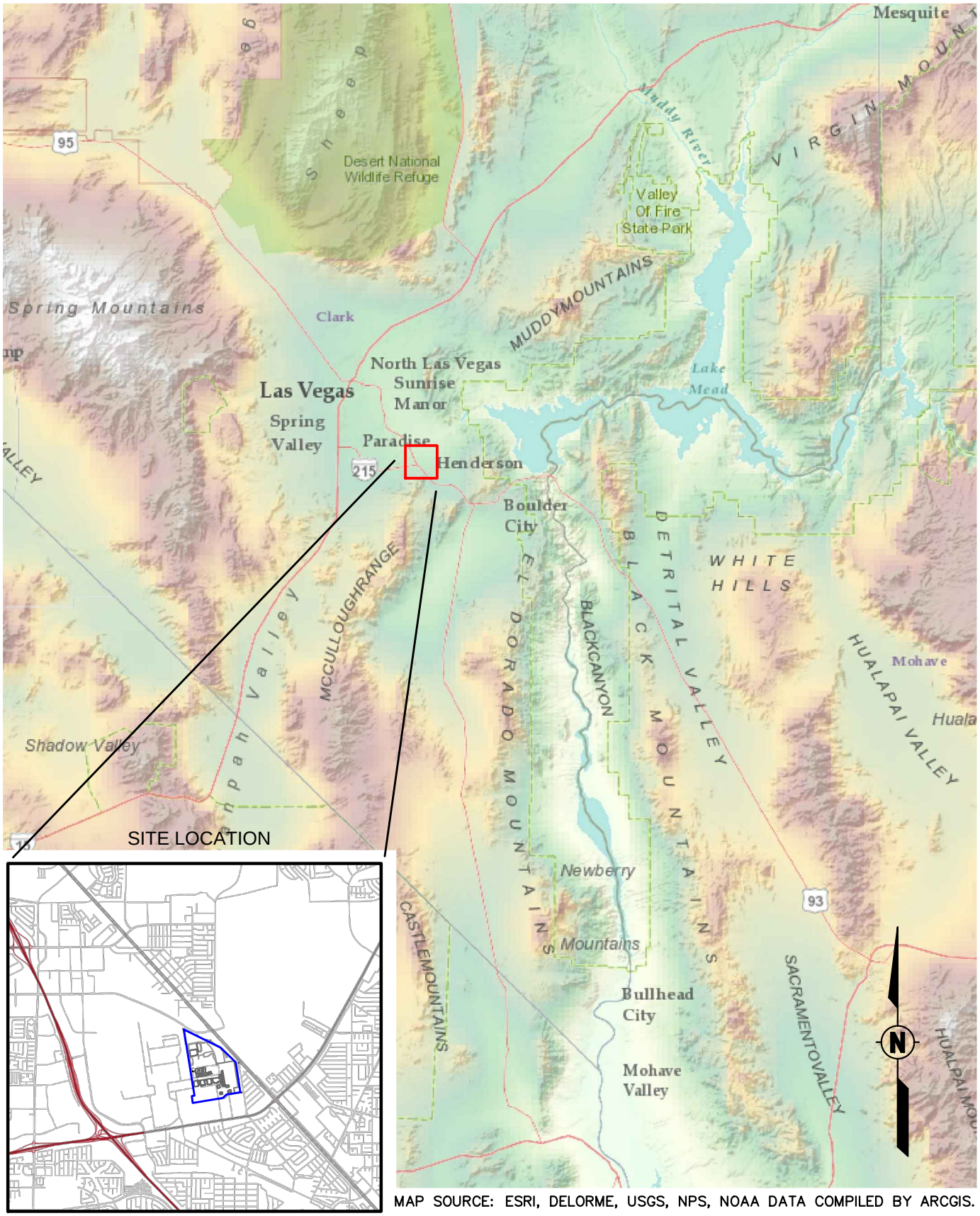
Figures



MAP SOURCE: ESRI, DELORME, USGS, NPS, NOAA DATA COMPILED BY ARCGIS.

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2013 ANNUAL GROUNDWATER MONITORING REPORT

SITE LOCATION MAP

Project 1323080 | October 2013 | Fig. 1

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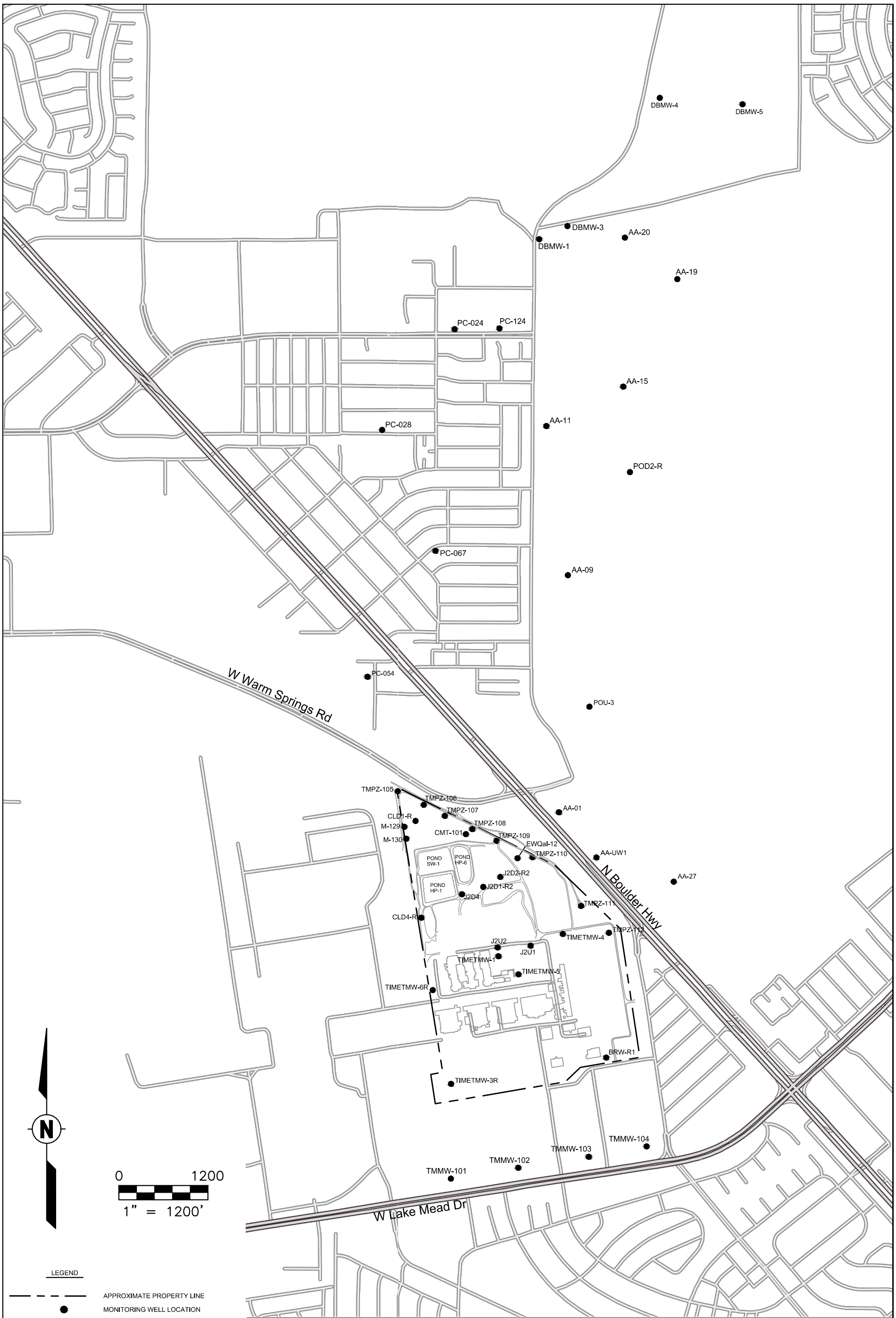

LEGEND

APPROXIMATE PROPERTY LINE

MONITORING WELL LOCATION

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

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MONITORING WELL LOCATION MAP

Project 1323080

October 2013

Fig. 2

LEGEND

— — —	APPROXIMATE PROPERTY LINE
●	MONITORING WELL LOCATION
1815.59	GROUNDWATER ELEVATION, FEET
1690	GROUNDWATER CONTOUR (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) GROUNDWATER ELEVATIONS MEASURED OCTOBER 2012

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2013 ANNUAL GROUNDWATER MONITORING REPORT

POTENTIOMETRIC SURFACE MAP, 2ND SEMESTER 2012

October 2013 Fig. 3

LEGEND

— — —	APPROXIMATE PROPERTY LINE
●	MONITORING WELL LOCATION
1709.79	GROUNDWATER ELEVATION, FEET
1690	GROUNDWATER CONTOUR (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) GROUNDWATER ELEVATIONS MEASURED APRIL 2013

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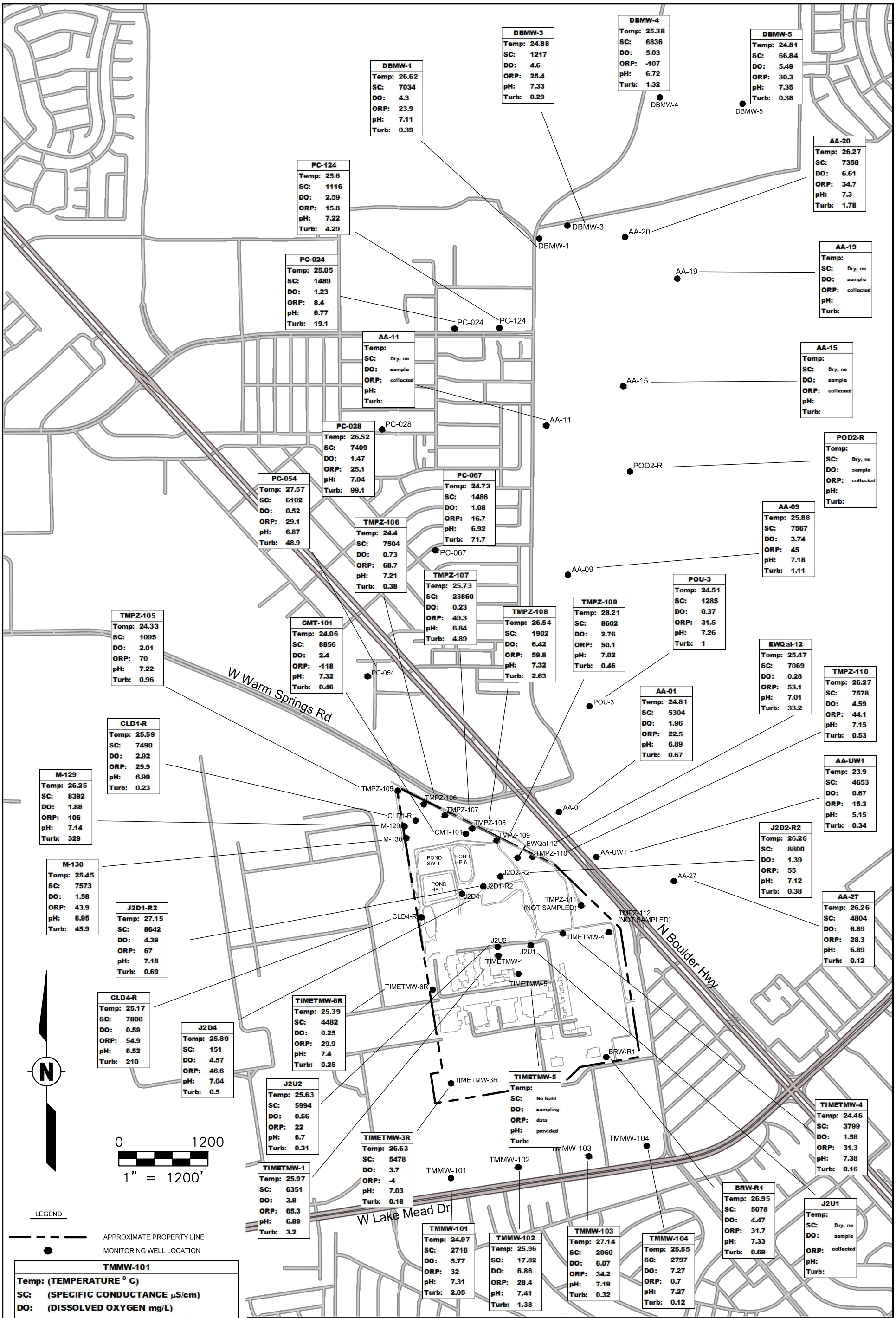
2013 ANNUAL GROUNDWATER MONITORING REPORT
POTENTIOMETRIC SURFACE MAP, 1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 4



NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

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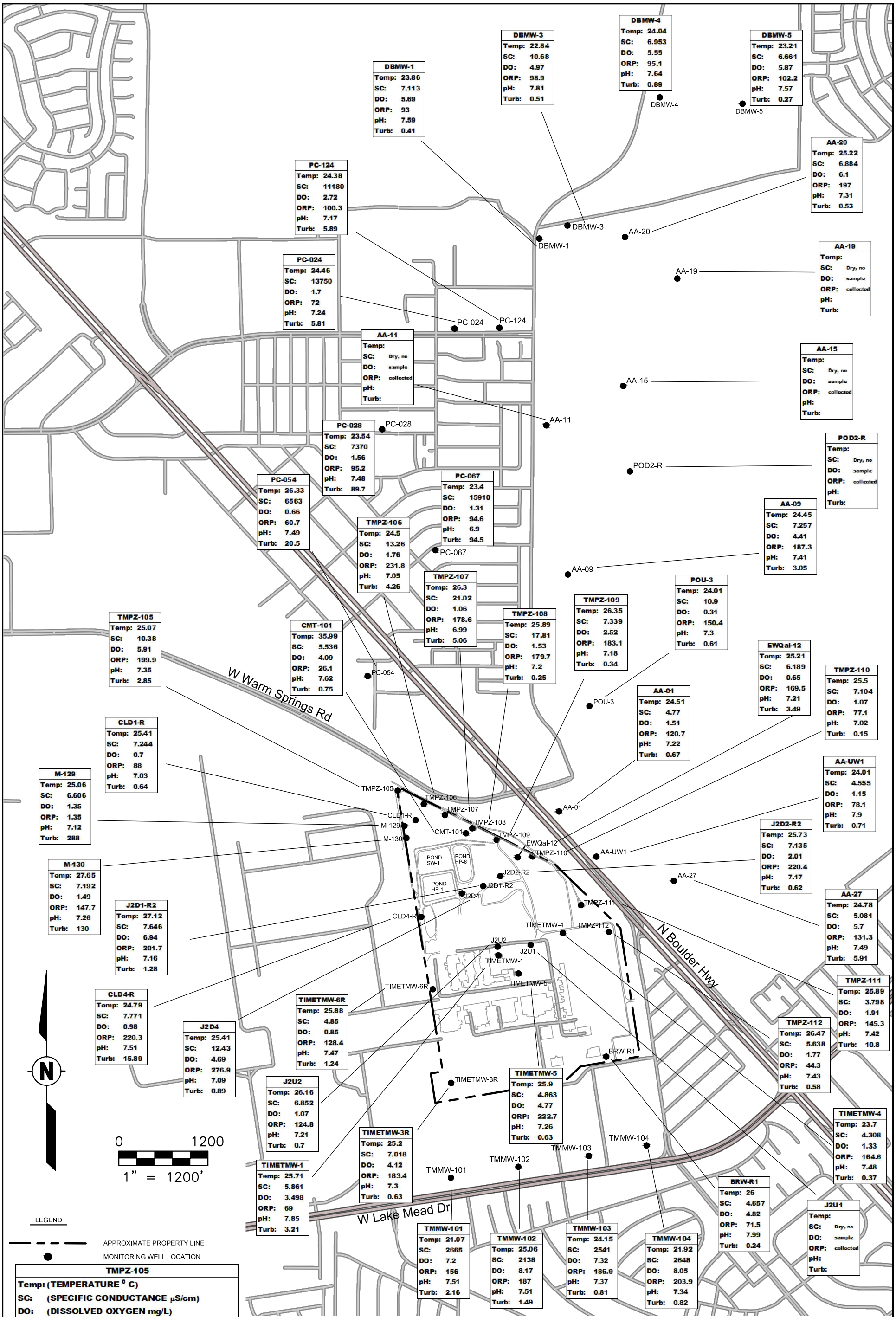
2013 ANNUAL GROUNDWATER MONITORING REPORT
FIELD MEASUREMENT DATA
2ND SEMEMSTER 2012

Project 1323080 | October 2013 | Fig. 5



NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

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2013 ANNUAL GROUNDWATER MONITORING REPORT
FIELD MEASUREMENT DATA
1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 6

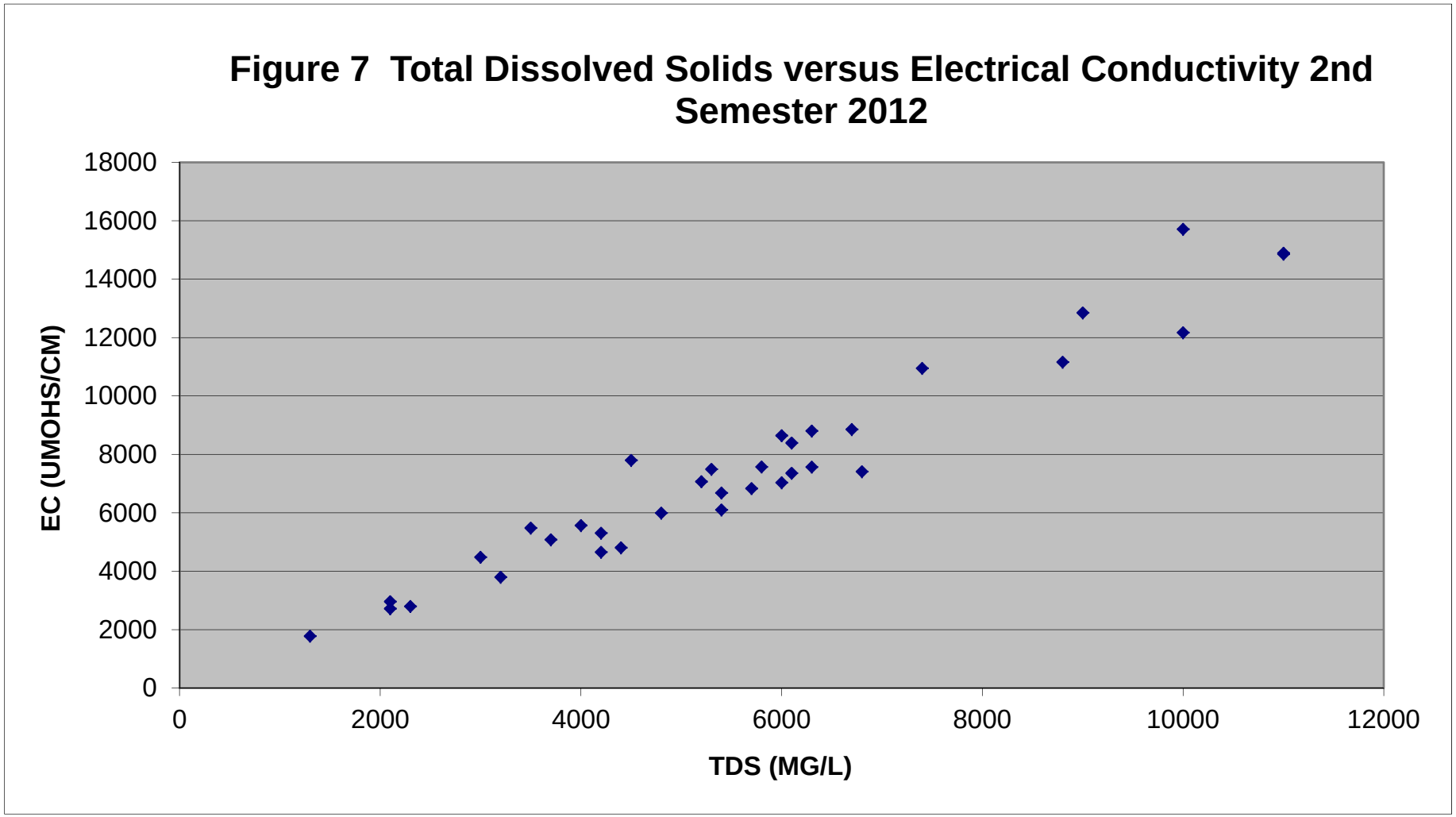
Figure 7 Total Dissolved Solids versus Electrical Conductivity 2nd Semester 2012
EC (UMOHS/CM)
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
TDS (MG/L)

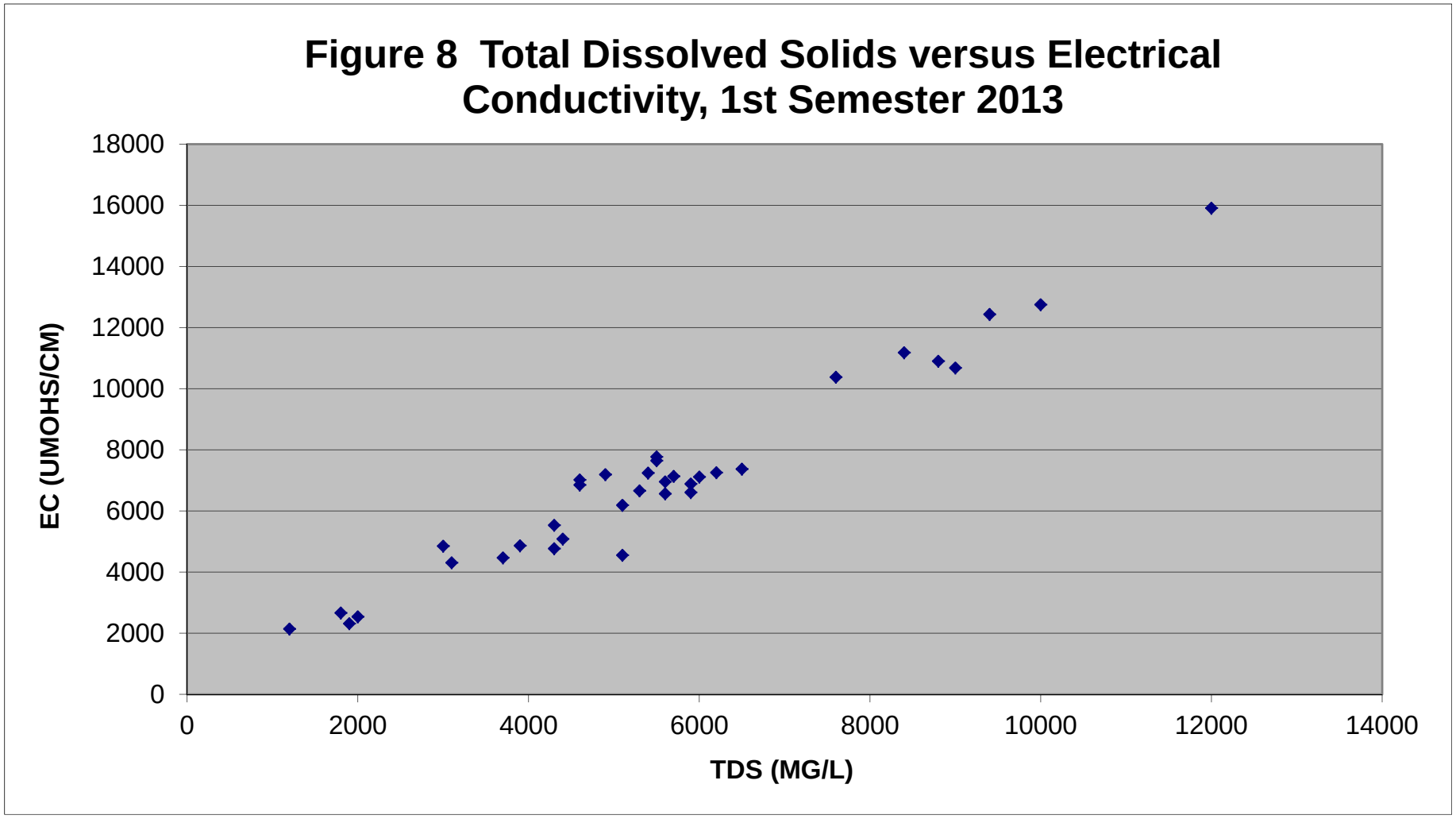
Figure 8 Total Dissolved Solids versus Electrical Conductivity, 1st Semester 2013
EC (UMOHS/CM)
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
TDS (MG/L)

Tables

TABLE 1
CURRENT GROUNDWATER MONITORING PLAN
2013 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			
			NO3	Cl	ClO4			Cr	Mg	V	Other TAL metals	Uranium					PCE	Chloroform	8260
ON-SITE			**PLANT SITE WELLS**																
BRW-R1	10/10/12	46.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
BRW-R1	4/16/13*	46.49	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
CLD1-R	10/30/12	29.61	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
CLD1-R	04/30/13	29.53	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
CLD2-R	NA	NA	WELL ABANDONED																
CLD2-R	NA	NA	WELL ABANDONED																
CLD3-R	NA	NA	WELL ABANDONED																
CLD3-R	NA	NA	WELL ABANDONED																
CLD4-R	10/18/12	36.22	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
CLD4-R	04/23/13	37.11	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
CMT-101	10/24/12	33.86	X	X	X		X	X				X	X				X	X	
CMT-101	05/09/13	33.32	X	X	X		X	X				X	X				X	X	
EWQAL-12	10/29/12	41.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
EWQAL-12	05/01/13	40.96	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D1-R2	10/16/12	40.03	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D1-R2	04/30/13	42.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D2-R2	10/22/12	42.65	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D2-R2	04/24/13	42.24	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D4	10/15/12	36.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D4	05/01/13	37.62	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2U1	10/30/12	51.75	Not enough water column to collect sample																
J2U1	05/02/13	51.93	Not enough water column to collect sample																
J2U2	10/31/12	44.39	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2U2	04/22/13	44.66	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
M-129	10/25/12	30.55	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
M-129	04/25/13	30.65		X	X		X					X	X				X	X	
M-130	10/30/12	27.09		X	X		X					X	X				X	X	
M-130	04/29/13	29.31		X	X		X					X	X				X	X	
TIMETMW-1	10/30/12	44.29																	X
TIMETMW-1	04/22/13	44.55																	X
TIMETMW-3R	10/10/12	51.93	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-3R	04/18/13	52.05	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-4	10/11/12	51.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-4	04/17/13	51.29	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-5	10/11/12	49.27	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-5	04/18/13	49.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-6R	10/15/12	42.86	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-6R	04/22/13	43.35	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-105	10/25/12	33	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X

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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			
			NO3	Cl	ClO4			Cr	Mg	V	Other TAL metals	Uranium					PCE	Chloroform	8260
TMPZ-105	04/25/13	34.02	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-106	10/23/12	31.78	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-106	04/29/13	31.7		X	X		X					X	X				X	X	
TMPZ-107	10/23/12	32.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-107	04/23/13	32.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-108	10/17/12*	34.25	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-108	04/25/13	33.54		X	X		X					X	X				X	X	
TMPZ-109	10/18/12	36.62	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-109	04/29/13	35.96		X	X		X					X	X				X	X	
TMPZ-110	10/16/12	40.31	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-110	05/01/13	38.94	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-111	NA	NA	Not Sampled																
TMPZ-111	04/25/13	44.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMPZ-112	NA	NA	Not Sampled																
TMPZ-112	04/29/13	48.42	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
OFF-SITE			**WELLS LOCATED UPGRADIENT OF PLANT SITE**																
TMMW-101	10/08/12	68.22	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-101	04/09/13	69.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-102	10/09/12	63.58	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-102	04/15/13	62.9	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-103	10/09/12	67.39	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-103	04/10/13	67.51	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-104	10/10/12	70.85	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-104	4/11/13*	68.22	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	10/11/12	47.89	X	X	X	X	X	X	X	X	X	X							X
AA-01	04/23/13	47.34	X	X	X	X	X	X	X	X	X	X							X
AA-09	10/15/12	38.37	X	X	X	X	X	X	X	X	X	X							X
AA-09	04/24/13	38.55	X	X	X	X	X	X	X	X	X	X							X
AA-11	10/25/12	30.56	Not enough water column to collect sample																
AA-11	04/24/13	30.68	Not enough water column to collect sample																
AA-15	10/25/12	42.49	Not enough water column to collect sample																
AA-15	04/24/13	42.5	Not enough water column to collect sample																
AA-19	10/25/12	NA	Well Dry																
AA-19	04/24/13	NA	Well Dry																
AA-20	10/29/12	31.43	X	X	X	X	X	X	X	X	X	X							X
AA-20	04/30/13	31.24	X	X	X	X	X	X	X	X	X	X							X
AA-27	10/15/12	67.78	X	X	X	X	X	X	X	X	X	X							X
AA-27	04/16/13	67.07	X	X	X	X	X	X	X	X	X	X							X
AA-UW1	10/11/12	52.01	X	X	X	X	X	X	X	X	X	X							X

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2013 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-UW1	04/16/13	51.06	X	X	X	X	X	X	X	X	X	X							X
DBMW-1	10/16/12	34.04	X	X	X	X	X	X	X	X	X	X							X
DBMW-1	04/18/13	35.79	X	X	X	X	X	X	X	X	X	X							X
DBMW-3	10/16/12	32.14	X	X	X	X	X	X	X	X	X	X							X
DBMW-3	04/18/13	33.96	X	X	X	X	X	X	X	X	X	X							X
DBMW-4	10/17/12	26.19	X	X	X	X	X	X	X	X	X	X							X
DBMW-4	04/17/13	26.13	X	X	X	X	X	X	X	X	X	X							X
DBMW-5	10/17/12	28.28	X	X	X	X	X	X	X	X	X	X							X
DBMW-5	04/17/13	28.12	X	X	X	X	X	X	X	X	X	X							X
PC-024	10/22/12	20.59	X	X	X	X	X	X	X	X	X	X							X
PC-024	04/11/13	20.73	X	X	X	X	X	X	X	X	X	X							X
PC-028	10/25/12	10.49	X	X	X	X	X	X	X	X	X	X							X
PC-028	04/10/13	11.46	X	X	X	X	X	X	X	X	X	X							X
PC-054	10/18/12	22.65	X	X	X	X	X	X	X	X	X	X							X
PC-054	04/10/13	22.69	X	X	X	X	X	X	X	X	X	X							X
PC-067	10/18/12	12.43	X	X	X	X	X	X	X	X	X	X							X
PC-067	04/09/13	13.34	X	X	X	X	X	X	X	X	X	X							X
PC-124	10/22/12	24.57	X	X	X	X	X	X	X	X	X	X							X
PC-124	04/11/13	24.98	X	X	X	X	X	X	X	X	X	X							X
POD2-R	11/28/12	63.81	Not enough water column to collect sample																
POD2-R	04/24/13	63.61	Not enough water column to collect sample																
POU-3	11/28/12	39.12	X	X	X	X	X	X	X	X	X	X							X
POU-3	04/23/13	39.21	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
* Well resampled at a later date(s) for select COCs
Mg Magnesium
NO3 Nitrate
SC Specific Conductivity
NA Not applicable

TABLE 2
MONITORING WELL CONSTRUCTION DETAILS
2013 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-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
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	26726004.23	831753.696	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
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
CLD4-R [5]	Active	Shallow	CLD4	Qal	8/23/1983	No[5]	26718854.29	829034.278	1,782	1782.07	27	47	1734.5
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
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
EWQal-12	Inactive	Shallow	J2D3-R	Qal	08/23/83	Yes	26719370.90	830027.400	1769.90	1771.81	---	---	---
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
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
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
TIMETMW-1	Active	Shallow	--	Qal	8/27/1997	Yes	26718339.19	830090.2314	1801.7	1801.69	30	60	1741.7
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
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	26719015.17	831186.734	---	1783.93	37	57	1,727
TMPZ-112	Active	Shallow	--	Qal	12/10/05	Yes	26718652.39	831559.744	--	1795.94	37	57	1738.94
PC-024	Active	Shallow	--	Qal	4/1/1998	Yes	26726729.82	829524.184	1,634	1,633.48	15	30	1,604
PC-028	Active	Shallow	--	Qal	4/1/1998	Yes	26725375.67	828530.649	1,651	1,650.85	10	19.5	1,631
PC-054	Active	Shallow	--	Qal	5/1/1998	Yes	26722067.79	828296.339	1,704	1,704.43	9.5	34.5	1,670
PC-067	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	---	---	---

Notes:

--	Not applicable
JHK	J.H. Kleinfelder and Associates
NA	Not available
QAL	Quaternary alluvium
TMC	Tertiary-age Muddy Creek Formation
UTM	Universal Transverse Mercator
WT	Water Table
1	Replacement wells are collocated with former 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) former 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

TABLE 3
GROUNDWATER ELEVATION DATA
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Titanium Metals Corporation
Henderson, Nevada

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
AA-01	26720238.47	830921.121	1757.13	20-Apr-10	47.33	1709.8
AA-01	26720238.47	830921.121	1757.13	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-01	26720238.47	830921.121	1757.13	11-Oct-12	47.89	1709.24
AA-01	26720238.47	830921.121	1757.13	23-Apr-13	47.34	1709.79
AA-09	26723441.4	831041.587	1696.23	22-Apr-10	38.23	1658
AA-09	26723441.4	831041.587	1696.23	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-09	26723441.4	831041.587	1696.23	15-Oct-12	38.37	1657.86
AA-09	26723441.4	831041.587	1696.23	24-Apr-13	38.55	1657.68
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	1629.29
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-11	26725458.78	830672.661	1660.05	25-Oct-12	30.56	1629.49
AA-11	26725458.78	830672.661	1660.05	24-Apr-13	30.68	1629.37
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-20	26728007.71	831811.844	1628.49	29-Oct-12	31.43	1597.06
AA-20	26728007.71	831811.844	1628.49	30-Apr-13	31.24	1597.25
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-27	26719301.66	832471.341	1789.38	15-Oct-12	67.78	1721.6
AA-27	26719301.66	832471.341	1789.38	16-Apr-13	67.07	1722.31
AA-UW1	26719624.99	831427.2049	1774.63	19-Apr-10	51.79	1722.84
AA-UW1	26719624.99	831427.2049	1774.63	05-Oct-10	52.25	1722.38
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
AA-UW1	26719624.99	831427.2049	1774.63	11-Oct-12	52.01	1722.62
AA-UW1	26719624.99	831427.2049	1774.63	16-Apr-13	51.06	1723.57
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

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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
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
BRW-R1	26716928.1	831558.8405	1843.88	08-Oct-12	46.22	1797.66
BRW-R1	26716928.1	831558.8405	1843.88	05-Apr-13	46.41	1797.47
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

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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
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
CLD1-R	26720138.24	828993.7209	1745.42	08-Oct-12	29.52	1715.9
CLD1-R	26720138.24	828993.7209	1745.42	05-Apr-13	29.65	1715.77
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

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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
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
CLD4-R	26718854.29	829034.2781	1782.07	08-Oct-12	36.21	1745.86
CLD4-R	26718854.29	829034.2781	1782.07	05-Apr-13	36.83	1745.24
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

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CMT-101	26719980.31	829635.1691	1751.42	08-Oct-12	33.98	1717.44
CMT-101	26719980.31	829635.1691	1751.42	05-Apr-13	33.33	1718.09
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-1	26728009.64	830462.8978	1626.46	16-Oct-12	34.04	1592.42
DBMW-1	26728009.64	830462.8978	1626.46	18-Apr-13	35.79	1590.67
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-3	26728157	831004.7895	1625.86	16-Oct-12	32.14	1593.72
DBMW-3	26728157	831004.7895	1625.86	18-Apr-13	33.96	1591.9
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
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-4	26729895.86	832282.9325	1605.81	17-Oct-12	26.19	1579.62
DBMW-4	26729895.86	832282.9325	1605.81	17-Apr-13	26.13	1579.68
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
DBMW-5	26729807.16	833395.044	1609.65	17-Oct-12	28.28	1581.37
DBMW-5	26729807.16	833395.0435	1609.65	17-Apr-13	28.12	1581.53
EWQAL-12	26719370.9	830027.4	1771.81	03-Oct-11	43.75	1728.06
EWQAL-12	26719370.9	830027.4	1771.81	02-Apr-12	43.12	1728.69
EWQAL-12	26719370.9	830027.4	1771.81	08-Oct-12	42.21	1729.6
EWQAL-12	26719370.9	830027.4	1771.81	05-Apr-13	40.8	1731.01
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

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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
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
J2D1-R2	26719274	829885.7771	1770.68	08-Oct-12	40.15	1730.53
J2D1-R2	26719274	829885.7771	1770.68	05-Apr-13	40.05	1730.63
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

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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
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
J2D2-R2	26719406.73	830098.4822	1769.55	08-Oct-12	42.74	1726.81
J2D2-R2	26719406.73	830098.4822	1769.55	05-Apr-13	42.01	1727.54
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

TABLE 3
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Titanium Metals Corporation
Henderson, Nevada

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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
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
J2D4	26719171.05	829582.5658	1774.66	08-Oct-12	36.82	1737.84
J2D4	26719171.05	829582.5658	1774.66	05-Apr-13	37.4	1737.26
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

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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
J2U1	26718499.09	830498.1399	1800.98	08-Oct-12	51.76	1749.22
J2U1	26718499.09	830498.1399	1800.98	05-Apr-13	51.64	1749.34
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
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

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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
J2U2	26718456.02	830063.1673	1798.54	08-Oct-12	44.3	1754.24
J2U2	26718456.02	830063.1673	1798.54	05-Apr-13	44.65	1753.89
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
M-129	26720079.64	828806.43	1747.26	08-Oct-12	30.66	1716.6
M-129	26720079.64	828806.43	1747.26	05-Apr-13	30.63	1716.63
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
M-130	26719919.7	828832.01	1749.23	08-Oct-12	27.01	1722.22
M-130	26719919.7	828832.01	1749.23	29-Apr-13	29.31	1719.92
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-024	26726729.82	829524.184	1633.48	09-Apr-12	21.08	1612.4
PC-024	26726729.82	829524.184	1633.48	22-Oct-12	20.59	1612.89
PC-024	26726729.82	829524.184	1633.48	11-Apr-13	20.73	1612.75
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

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Titanium Metals Corporation
Henderson, Nevada

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
PC-028	26725375.67	828530.649	1650.85	04-Apr-12	12.03	1638.82
PC-028	26725375.67	828530.649	1650.85	25-Oct-12	10.49	1640.36
PC-028	26725375.67	828530.649	1650.85	10-Apr-13	11.46	1639.39
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-054	26722067.79	828296.339	1704.43	11-Apr-12	21.93	1682.5
PC-054	26722067.79	828296.339	1704.43	18-Oct-12	22.65	1681.78
PC-054	26722067.79	828296.339	1704.43	10-Apr-13	22.69	1681.74
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-067	26723846.88	829207.58	1673.82	04-Apr-12	12.9	1660.92
PC-067	26723846.88	829207.58	1673.82	18-Oct-12	12.43	1661.39
PC-067	26723846.88	829207.58	1673.82	09-Apr-13	13.34	1660.48
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-124	26726741.58	830132.953	1635.73	22-Oct-12	24.57	1611.16
PC-124	26726741.58	830132.953	1635.73	11-Apr-13	24.98	1610.75
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
POD2-R	26724825.4	831955.5	1673.4	28-Nov-12	63.81	1609.59
POD2-R	26724825.4	831955.5	1673.4	24-Apr-13	63.61	1609.79
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
POU-3	26721664.71	831329.9801	1730	28-Nov-12	39.12	1690.88
POU-3	26721664.71	831329.9801	1730	23-Apr-13	39.21	1690.79
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	1755.17
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-1	26718339.19	830090.2314	1801.69	08-Oct-12	44.21	1757.48
TIMETMW-1	26718339.19	830090.2314	1801.69	05-Apr-13	44.45	1757.24

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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
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-3R	26716571.73	829483.2505	1840.39	08-Oct-12	51.92	1788.47
TIMETMW-3R	26716571.73	829483.2505	1840.39	05-Apr-13	51.73	1788.66
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

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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
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-4	26718582.87	830973.9242	1800.61	08-Oct-12	51.45	1749.16
TIMETMW-4	26718582.87	830973.9242	1800.61	05-Apr-13	51.5	1749.11
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

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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
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-5	26718063.61	830385.808	1812.48	08-Oct-12	49.27	1763.21
TIMETMW-5	26718063.61	830385.808	1812.48	05-Apr-13	49.54	1762.94
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

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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
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
TIMETMW-6R	26717836.95	829221.18	1812.36	08-Oct-12	42.93	1769.43
TIMETMW-6R	26717834.12	829221.0745	1812.36	22-Apr-13	43.55	1768.81
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

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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	1876.91	03-Oct-11	67.47	1809.44
TMMW-101	26715285.26	829462.76	1876.91	02-Apr-12	68.52	1808.39
TMMW-101	26715285.26	829462.76	1876.91	05-Apr-12	68.44	1808.47
TMMW-101	26715285.26	829462.76	1876.91	08-Oct-12	68.26	1808.65
TMMW-101	26715285.26	829462.76	1876.91	05-Apr-13	67.81	1809.1
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	1882.46	03-Oct-11	63.52	1818.94
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	1882.46	05-Apr-12	65.62	1816.84
TMMW-102	26715433.08	830371.175	1882.46	08-Oct-12	63.55	1818.91
TMMW-102	26715433.08	830371.175	1882.46	05-Apr-13	62.85	1819.61
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	1882.95	04-Oct-10	68.26	1814.69
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
TMMW-103	26715583.05	831325.82	1882.95	09-Apr-12	68.05	1814.9
TMMW-103	26715583.05	831325.82	1882.95	08-Oct-12	67.36	1815.59
TMMW-103	26715583.05	831325.82	1882.95	05-Apr-13	67.25	1815.7
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

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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	1885.78	09-Apr-12	71.91	1813.87
TMMW-104	26715722.71	832104.881	1885.78	08-Oct-12	70.82	1814.96
TMMW-104	26715722.71	832104.881	1885.78	05-Apr-13	69.52	1816.26
TMPZ-105	26720557.27	828703.771	1736.676	17-Jul-07	31.97	1704.706
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	1702.976
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-105	26720557.27	828703.771	1736.676	08-Oct-12	33.08	1703.596
TMPZ-105	26720557.27	828703.771	1736.676	05-Apr-13	33.92	1702.756
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	1710.852
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-106	26720359.15	829102.418	1742.252	08-Oct-12	31.84	1710.412
TMPZ-106	26720359.15	829102.418	1742.252	05-Apr-13	31.49	1710.762
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
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	1712.934
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-107	26720209.59	829386.703	1745.604	08-Oct-12	32.83	1712.774
TMPZ-107	26720209.59	829386.703	1745.604	05-Apr-13	32.15	1713.454

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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-108	26720032.09	829756.757	1750.46	08-Oct-12	34.23	1716.23
TMPZ-108	26720032.09	829756.757	1750.46	05-Apr-13	33.44	1717.02
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-109	26719874.25	830082.661	1756.59	08-Oct-12	36.85	1719.74
TMPZ-109	26719874.25	830082.661	1756.59	05-Apr-13	35.9	1720.69
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	1723.356
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-110	26719668.76	830531.856	1763.996	08-Oct-12	40.61	1723.386
TMPZ-110	26719668.76	830531.856	1763.996	05-Apr-13	38.8	1725.196
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
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

TABLE 3
GROUNDWATER ELEVATION DATA
2013 ANNUAL GROUNDWATER MONITORING REPORT

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation (Feet Above MSL)	Date Measured	Depth to Water	Groundwater Elevation (Feet Above MSL)
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	1738.338
TMPZ-111	26719015.17	831186.734	1783.928	02-Apr-12	45.3	1738.628
TMPZ-111	26719015.17	831186.734	1783.928	08-Oct-12	43.91	1740.018
TMPZ-111	26719015.17	831186.734	1783.928	05-Apr-13	43.92	1740.008
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	1746.761
TMPZ-112	26718652.39	831559.744	1795.941	02-Apr-12	49.07	1746.871
TMPZ-112	26718652.39	831559.744	1795.941	08-Oct-12	48.23	1747.711
TMPZ-112	26718652.39	831559.744	1795.941	05-Apr-13	44.63	1751.311

Table 4 Analytical Results for Well BRW-R1, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		60	92	73	72	74 J	78
ANIONS (reported in mg/L)							
Chloride	4	272	2800	**320**	**340**	**350 J**	**350**
Nitrate	10	11	128	**13**	**13**	**14 J**	**14**
Perchlorate	0.018	0.24	0.36	**0.29**	**0.28**	**0.32 J**	**0.32**
Sulfate	250	1790	21000	**1900**	**2000**	**2000 J**	**1900**
GENERAL (reported in mg/L)							
Fluoride	4	1.4	1.4	NA	NA	NA	1.4 J-
Nitrite	1	0.15	1	< 0.5 U	< 0.15 U	< 0.5 U	< 0.5 U
Total Phosphorous		0.015	0.05	< 0.05 U	< 0.015 U	< 0.05 U	< 0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		-22	30	< 5.05 ± 5.29 U	< 1.43 7.68 U	< 7.38 ± 4.73 U	< 14 ± 7.85 U
Adjusted Gross Alpha (Total) (c)	15	-10.48	22.42	**-6.94**	NA	**-7.631**	**-7.94**
Beta (Total)	50	-12	72.2	16.7 ± 6.69 M3	< 5.01 12.7 U	< 10.7 ± 6.51 U	< 23 ± 13.9 U
Uranium 238		2	4.08	2.75 ± 0.583	2.52 ± 0.539	3.04 ± 0.638 J+	2.8 ± 0.583
Uranium 234		3	6.15	4.19 ± 0.825	3.9 ± 0.771	4.34 ± 0.852	4.9 ± 0.921
Thorium 230	0.042	-0.0484	0.127	< 0.0174 ± 0.0555 U	< -0.0442 ± 0.0463 U	**< 0.124 ± 0.0652 U**	**< 0.087 ± 0.0503 U**
Radium 226	5	-0.94	1	< 0.157 ± 0.334 U	0.243 ± 0.179 J	0.624 ± 0.306 LT	0.41 ± 0.194
Radon 222	300	245	649	**522 ± 68.6**	**445 ± 58.6**	**510 ± 68.7**	**440 ± 61.6**
Lead 214		-7.14	63.2	< 4 ± 11.1 UJ-	57.4 ± 11.4 J	< 15.2 ± 9.15 UJ-	< 16 ± 9.88 UJ-
Bismuth 214		-21	53.9	< 13.1 ± 10.8 UJ-	53.9 ± 13.4 J	< 18.7 ± 9.44 UJ-	< 19 ± 10.3 UJ-
Thorium 232	0.14	-0.0111	0.0484	< -0.00136 ± 0.0132 U	< 0.00507 ± 0.0124 U	< 0.0484 ± 0.0243 U	NA
Radium 228	5	-0.14	1.43	0.793 ± 0.357 LT	< 0.446 0.32 U	0.676 ± 0.258 LT	0.77 ± 0.317 J+
Radium (R226+R228) (d)	5	0	1.643	0.793	NA	1.3	1.18
Actinium 228		-7.31	33.8	< 11.4 ± 7.35 U	< 12.3 ± 7.94 U	< 33.8 ± 20.2 U	< 28 ± 12.6 U
Thorium 228	0.11	-0.0232	0.154	< -0.0232 ± 0.0559 U	< -0.0128 ± 0.0657 U	**< 0.154 ± 0.0756 U**	< 0.11 ± 0.0593 U
Lead 212		-4.67	14	< 4.22 ± 6.55 U	< 2.26 ± 6.72 U	< 11.4 ± 6.9 U	< 14 ± 8.08 U
Bismuth 212		-31.1	61	< 10.5 ± 47.5 U	< 24.2 ± 33.6 U	< 53.6 ± 33.6 U	< 61 ± 37.4 U
Thallium 208		-1.29	8.47	< 0.638 ± 6.03 U	< 3.38 ± 2.43 U	< 8.47 ± 5.07 U	< 4.3 ± 2.6 U
Potassium 40		-55.6	130	< 6.81 ± 95.5 U	< -11.4 ± 69 U	< 111 ± 66.1 U	< 130 ± 79.5 U
Uranium 235		0	11.8	< 0.097 ± 0.0828 U	0.219 ± 0.119	0.251 ± 0.135	0.24 ± 0.12
Proactinium 234		-147	625	< -132 ± 589 U	< 357 ± 286 U	< 625 ± 377 U	< 570 ± 357 U
Radium 224		-4.67	14	< 4.22 ± 6.55 U	< 2.26 ± 6.72 U	< 11.4 ± 6.9 U	< 14 ± 8.08 U
Thorium 227		-14.6	35	< -1.31 ± 23.6 U	< -5.17 ± 17.2 U	< 18.2 ± 10.8 U	< 35 ± 20.4 U
Thallium 234		-31.2	150	< 19.8 ± 91.6 U	< 13.2 ± 75.6 U	< 124 ± 74.6 U	< 150 ± 89 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	253	4200	**3600**	**3700**	**3700**	**3700**
TOTAL METALS (reported in ug/L)							
Aluminum	50	7.7	500	**< 500 U**	**< 76 U**	**< 150 UJ-**	**84 J+**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	17.8	46	**40**	**37**	**35**	**39**
Barium	2000	1.1	18.7	3.5 J	3.8 J	< 1.9 U	7.5 J-
Beryllium	4	0.081	10	3.3 J	< 0.88 U	< 1.8 U	< 0.18 U

Table 4 Analytical Results for Well BRW-R1, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		205000	460000	350000	340000 J-	340000 J	360000
Chromium	100	9.5	56	35 J	36 J	24 J-	34
Chromium VI	100	35	54	43	43	42	35 J-
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.81	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	539	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	120	230	**160 J+**	**150 J**	**120**	**210 J+**
Magnesium	207000	140000	200000	170000	170000 J-	170000 J	170000
Mercury	2	0.0029	0.22	0.0048 J	0.0099 J	0.015 J+	< 0.0029 U
Molybdenum	183	64	100	85	84	64 J-	93
Nickel	730	0.93	100	< 100 U	< 4.7 U	< 9.3 U	< 0.93 U
Potassium		6800	17000	11000 J	11000	6800 J-	17000 J+
Selenium	50	2.1	27	< 25 U	< 13 U	< 27 U	5.2
Silicon		15000	18000	16000	17000 J-	16000	15000
Silver	100	0.63	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		350000	491000	410000 J	420000 J-	400000 J+	390000 J-
Thallium	2	0.02	200	0.03 J	0.02 J	0.02 J+	0.02 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	7.3	14	8.4	8.3	8	8.6
Vanadium	183	13	38.2	18 J	16 J	13 J	19
Zinc	11000	0.71	100	< 100 U	< 3.6 U	< 7.2 U	< 0.72 U
Zirconium	2.92	0.5	100	**12 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.21	5	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
1,1,2-Trichloroethane	5	0.28	5	< 1 U	< 0.3 U	< 0.28 U	< 0.3 U
1,1-Dichloroethane	2.42	0.22	5	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
1,1-Dichloroethene	7	0.2	5	< 1 U	< 0.3 U	< 0.2 U	< 0.3 U
1,2-Dichloroethane	5	0.26	5	< 1 U	< 0.3 U	< 0.26 U	< 0.3 U
1,2-Dichloropropane	5	0.26	5	< 1 U	< 0.3 U	< 0.26 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.23	5	< 1 U	< 0.3 U	< 0.23 U	< 0.3 U
2-Butanone	7060	3	20	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	20	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	2.5	96	< 10 U	< 6.4 U	< 2.8 U	< 3 U
Benzene	5	0.23	5	< 1 U	< 0.3 U	< 0.23 U	< 0.3 U
Bromodichloromethane	0.12	0.13	5	**< 1 U**	**< 0.3 U**	**0.32 J**	**0.41 J**
Bromoform	8.51	0.3	5	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.15	10	< 1 U	< 0.3 U	< 0.15 U	< 0.3 U
Carbon disulfide	1040	0.25	5	< 1 U	< 0.3 U	< 0.25 U	< 0.3 U
Carbon tetrachloride	5	0.24	5	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Chlorobenzene	100	0.24	5	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Chloroform	0.19	2.9	13	**3.5**	**3.1**	**2.9**	**3.3**
Chloromethane	2.7	0.24	10	< 1 U	< 0.33 U	< 0.24 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U

Table 4 Analytical Results for Well BRW-R1, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Dibromochloromethane	0.15	0.3	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.22	5	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
Methylene chloride	5	0.25	5.8	< 1 U	< 0.32 U	< 0.25 U	< 0.3 U
Naphthalene	0.14	0.27	1	**< 1 U**	**< 0.42 U**	**< 0.27 U**	**< 0.3 U**
Styrene	100	0.28	5	< 1 U	< 0.3 U	< 0.28 U	< 0.3 U
Tetrachloroethene	5	0.18	5	< 1 U	< 0.19 U	< 0.18 U	< 0.18 U
Toluene	1000	0.22	5	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
Total Trihalomethanes (e)	80	0	13	3.5	NA	3.22	3.71
trans-1,2-Dichloroethene	100	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
Trichloroethene	5	0.24	11	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Trichlorofluoromethane	1290	0.2	1	< 1 U	< 0.3 U	< 0.2 U	< 0.3 U
Vinyl chloride	2	0.21	10	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
Total Xylene	10000	0.87	10	< 2 U	< 2 U	0.87 J	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 5 Analytical Results for Well CLD1-R, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)						
Bicarbonate Alkalinity		66	430	190 J	270	180 J
ANIONS (reported in mg/L)						
Chloride	4	740	5780	**980 J**	**1400**	**1400 J**
Nitrate	10	7.5	60	8.9 J	**15**	**14 J**
Perchlorate	0.018	4.3	19	**5.5 J**	**8.9**	**19 J**
Sulfate	250	710	2780	**1100 J**	**1500**	**1900 J**
GENERAL (reported in mg/L)						
Fluoride	4	3.5	3.5	NA	NA	3.5 J
Nitrite	1	0.5	1	< 1 U	< 0.5 U	< 1 U
Total Phosphorous		0.05	0.096	0.069	0.064	< 0.05 U
RADIONUCLIDES (reported in pCi/L)						
Alpha (Total)		-34	150	7.55 ± 4.83 M3	22.5 ± 7.41 M3	< 14 ± 8.61 U
Adjusted Gross Alpha (Total) (c)	15	-32.29	119.7	**-3.56**	**-24.28**	**-16.89**
Beta (Total)	50	-14	44	11 ± 6.55 M3	17.4 ± 9.1 M3	< 21 ± 13.1 U
Uranium 238		4.19	22.2	4.19 ± 0.817	19.1 ± 3.18	6.7 ± 1.2
Uranium 234		6.2	32.9	6.65 ± 1.22	26.7 ± 4.39	9.8 ± 1.69
Thorium 230	0.042	-0.0637	0.151	< -0.0101 ± 0.0537 U	**< 0.123 ± 0.0657 U**	**< 0.071 ± 0.0423 U**
Radium 226	5	-0.19	1.21	< 0.302 ± 0.296 U	0.331 ± 0.171 LT	0.59 ± 0.287
Radon 222	300	311	2140	**2120 ± 247**	**956 ± 116**	**1800 ± 214**
Lead 214		-10	367	< 7.78 ± 11.5 UJ-	< 17 ± 10.2 UJ-	< 19 ± 11.5 UJ-
Bismuth 214		-13	350	< 12.8 ± 11.7 UJ-	< 21.7 ± 13.1 UJ-	< 17 ± 8.45 UJ-
Thorium 232	0.14	-0.0106	0.0445	< -0.00715 ± 0.0142 U	< 0.0445 ± 0.0203 U	NA
Radium 228	5	-0.04	0.94	0.683 ± 0.351 LT	0.595 ± 0.298 LT	0.56 ± 0.27
Radium (R226+R228) (d)	5	0	1.64	0.683	0.926	1.15
Actinium 228		-6.26	25	< 9.1 ± 10.1 U	< 13.1 ± 8.27 U	< 15 ± 6.97 U
Thorium 228	0.11	-0.0377	0.186	< -0.0377 ± 0.0602 U	**< 0.186 ± 0.104 U**	< 0.065 ± 0.0374 U
Lead 212		-19.9	11.8	< 6.14 ± 6.93 U	< 11.8 ± 7.14 U	< 11 ± 6.49 U
Bismuth 212		-50	91	< 50.8 ± 50.1 U	< 57.3 ± 35 U	< 91 ± 54.3 U
Thallium 208		-4.9	9.1	< 4 ± 3.44 U	< 6.96 ± 4.18 U	< 9.1 ± 5.19 U
Potassium 40		-55	122	< -7.45 ± 91.4 U	< 122 ± 72.6 U	< 100 ± 62.8 U
Uranium 235		0.16	7.62	0.274 ± 0.132	0.977 ± 0.252	0.39 ± 0.152
Proactinium 234		-340	816	< 59 ± 607 U	< 637 ± 388 U	< 410 ± 250 U
Radium 224		-1.83	11.8	< 6.14 ± 6.93 U	< 11.8 ± 7.14 U	< 11 ± 6.49 U
Thorium 227		-18.3	20.3	< -3 ± 23.5 U	< 20.3 ± 11.9 U	< 17 ± 9.85 U
Thallium 234		-33.5	113	< 38.1 ± 88.9 U	< 113 ± 68.2 U	< 71 ± 35.3 U
SOLIDS (reported in mg/L)						
Total Dissolved Solids	1900	3700	12500	**3800**	**5300**	**5400**
TOTAL METALS (reported in ug/L)						
Aluminum	50	4.7	500	**97 J**	**230 J+**	< 15 U
Antimony	6	3	100	**< 100 U**	**< 30 U**	< 3 U
Arsenic	10	130	493	**150**	**140**	**150**
Barium	2000	8.4	2000	12 J	13 J-	23 J-
Beryllium	4	0.081	10	**< 10 U**	< 1.8 U	< 0.18 U
Cadmium	5	0.33	50	**< 25 U**	< 3.3 U	< 0.33 U

Table 5 Analytical Results for Well CLD1-R, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	2nd SMSTR 2012	1st SMSTR 2013
Calcium		83000	581000	150000 J	290000	310000 J
Chromium	100	151	2600	**280**	**1100**	**610 J-**
Chromium VI	100	310	1200	**310**	**1200**	**680**
Cobalt	11	0.45	50	**< 50 U**	< 4.5 U	< 0.45 U
Copper	1300	0.56	50	< 50 U	< 9.7 U	< 0.97 U
Iron	300	3.2	1040	**< 500 U**	< 49 U	< 4.9 U
Lead	15	1.3	30	< 15 U	< 13 U	< 1.3 U
Lithium	73	180	530	**300 J+**	**320 J+**	**530 J+**
Magnesium	207000	46000	350000	100000 J	170000	170000 J
Mercury	2	0.0029	0.2	0.0077 J	0.015 J-	< 0.0029 U
Molybdenum	183	74	140	74	82 J-	140
Nickel	730	1.3	100	< 100 U	< 9.3 U	4.5 J-
Potassium		9800	66000	11000 J	11000	27000 J+
Selenium	50	3.6	50	< 25 U	< 27 U	6.1
Silicon		40000	50000	49000	50000	50000
Silver	100	0.51	100	< 50 U	< 11 U	< 1.1 U
Sodium		720000	3700000	720000 J	1000000	980000 J
Thallium	2	0.02	200	0.04 J	0.04 J+	0.04 J+
Tin	21900	2.8	250	< 250 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 2.7 U	< 0.27 U
Uranium	30	13	76	13	**54**	19
Vanadium	183	41	7670	130	92 J-	100
Zinc	11000	0.41	210	< 100 U	< 7.2 U	< 0.72 U
Zirconium	2.92	0.5	100	**4.5 J**	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)						
1,1,1-Trichloroethane	200	0.3	25	< 1 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	25	< 1 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.095	25	< 1 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.2	25	< 1 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	25	< 1 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	25	< 1 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	25	< 1 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	250	< 10 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3.4	250	< 10 U	< 3.4 UJ	< 3.4 U
Acetone	21800	2	250	< 10 U	< 3 U	< 3 U
Benzene	5	0.19	25	< 1 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.64	25	**1.1**	**0.72 J**	**0.85 J**
Bromoform	8.51	0.34	25	< 1 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	50	< 1 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	25	< 1 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	1	25	1.8	1.1	1.6
Chlorobenzene	100	0.3	25	< 1 U	< 0.3 U	< 0.3 U
Chloroform	0.19	210	1100	**300**	**270**	**370**
Chloromethane	2.7	0.18	50	< 1 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	25	< 1 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.17	25	**< 1 U**	**< 0.3 U**	**< 0.3 U**

Table 5 Analytical Results for Well CLD1-R, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	2nd SMSTR 2012	1st SMSTR 2013
Ethylbenzene	700	0.3	25	< 1 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.23	25	< 1 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	2	**< 1 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	25	< 1 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	0.51	25	0.94 J	0.69 J	0.51 J
Toluene	1000	0.16	25	< 1 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	0.3	1107	**301.1**	**270**	**370.8**
trans-1,2-Dichloroethene	100	0.3	25	< 1 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.18	25	< 1 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	25	< 1 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	25	< 1 U	< 0.3 U	< 0.3 U
Total Xylene	10000	2	50	< 2 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
\+ - Biased high
\- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 6 Analytical Results for Well CLD4-R, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		58	290	NA	270	290	250 J
ANIONS (reported in mg/L)							
Chloride	4	1400	11400	**1700 J**	**1700**	**1400**	**1700 J**
Nitrate	10	7.4	62.8	9.4 J	9.7	7.4	9.9 J
Perchlorate	0.018	1.5	3.7	**2.1 J**	**2.4**	**1.5**	**2 J**
Sulfate	250	1100	2800	**1700 J**	**1700**	**1100**	**1900 J**
GENERAL (reported in mg/L)							
Fluoride	4	7.9	7.9	NA	NA	NA	**7.9 J**
Nitrite	1	0.5	1	< 1 U	< 1 U	< 0.5 UJ-	< 1 U
Total Phosphorous		0.1	0.28	0.27	0.19	0.21	0.28 J+
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		-18	19.5	< 14.4 ± 9.82 U	< 3.53 ± 8.14 U	14.5 ± 8.35 M3	< 14 ± 8.23 U
Adjusted Gross Alpha (Total) (c)	15	-8.842	13.19	**-8.842**	**-7.1**	6.921	**-7.94**
Beta (Total)	50	-12.3	37	< 8.76 ± 12.7 U	< 6.51 ± 12 U	< 14.1 ± 8.83 U	< 21 ± 12.9 U
Uranium 238		2.23	3.69	3.54 ± 0.691	3.05 ± 0.712 M3	2.97 ± 0.605	3.2 ± 0.679
Uranium 234		3	5.08	5.08 ± 0.943	4.05 ± 0.892	4.41 ± 0.843	4.6 ± 0.929
Thorium 230	0.042	-0.0595	0.94	**0.146 ± 0.0872 LT**	**0.186 ± 0.0768 J**	**0.635 ± 0.148**	**0.94 ± 0.187**
Radium 226	5	0.0273	0.67	< 0.276 ± 0.249 U	< 0.076 ± 0.187 U	< 0.31 ± 0.213 U	0.67 ± 0.32
Radon 222	300	706	1100	**1100 ± 133**	**822 ± 100**	**725 ± 89.9**	**800 ± 97.4**
Lead 214		-13.6	62.5	< 5.89 ± 10.3 UJ-	62.5 ± 12 J-	< 16.9 ± 10.2 UJ-	< 16 ± 9.73 UJ-
Bismuth 214		-6.41	58.1	< 12.4 ± 10.3 UJ-	58.1 ± 13.8 J-	< 22 ± 13.3 UJ-	< 20 ± 12.4 UJ-
Thorium 232	0.14	0.0019	0.279	< 0.0311 ± 0.0362 U	< 0.0141 ± 0.0156 U	**0.279 ± 0.0773**	NA
Radium 228	5	-0.28	0.59	< 0.21 ± 0.268 U	< 0.257 ± 0.281 U	0.435 ± 0.228 LT	< 0.46 ± 0.228 U
Radium (R226+R228) (d)	5	0	0.67	**< 0**	**< 0**	0.435	0.67
Actinium 228		-9.47	32	< 12.9 ± 10.7 U	18.2 ± 10.7 J	< 15.6 ± 9.85 U	< 32 ± 19 U
Thorium 228	0.11	-0.0408	0.4	< -0.0355 ± 0.0685 U	< 0.0374 ± 0.0484 U	**0.198 ± 0.0802 LT**	**0.4 ± 0.114**
Lead 212		-2.77	12.8	< -0.997 ± 7.94 U	< -0.124 ± 7.34 U	< 12.8 ± 7.7 U	< 10 ± 6.31 U
Bismuth 212		12.9	59	< 13.8 ± 39.6 U	< 42.4 ± 39.6 U	< 59 ± 35.5 U	59 ± 34.9 J
Thallium 208		0.565	9.04	< 1.66 ± 2.62 U	< 1.75 ± 5.36 U	< 9.04 ± 5.46 U	6.1 ± 2.61 J
Potassium 40		-35.9	219	< -29.1 ± 74.4 U	< -5.62 ± 72.2 U	< 115 ± 69 U	< 110 ± 65.3 U
Uranium 235		0.0862	0.28	0.222 ± 0.11	< 0.108 ± 0.108 U	0.199 ± 0.109 LT	0.14 ± 0.103
Proactinium 234		191	700	< 283 ± 296 U	< 434 ± 391 U	< 667 ± 406 U	< 700 ± 420 U
Radium 224		-2.77	12.8	< -0.997 ± 7.94 U	< -0.124 ± 7.34 U	< 12.8 ± 7.7 U	< 10 ± 6.31 U
Thorium 227		-15.3	21.9	< 7.61 ± 11 U	< 5.19 ± 19.4 U	< 21.9 ± 13.2 U	< 20 ± 11.8 U
Thallium 234		-0.501	191	< 3.2 ± 49.2 U	< 44.7 ± 76.8 U	< 191 ± 116 U	< 130 ± 67.3 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4500	17600	**5100 J**	**6000**	**4500**	**5500**
TOTAL METALS (reported in ug/L)							
Aluminum	50	14	790	**380 J**	**210 J**	**< 150 U**	**790 J+**
Antimony	6	3.3	100	**< 100 U**	**< 15 U**	**< 30 U**	3.4 J-

Table 6 Analytical Results for Well CLD4-R, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	37	592	**400**	**450**	**37**	**400**
Barium	2000	3.7	2000	16 J	4 J	19 J-	53 J-
Beryllium	4	0.081	10	**5.9 J**	**7 J**	< 1.8 U	**< 8.8 U**
Cadmium	5	0.33	50	**< 25 U**	< 1.6 U	< 3.3 U	0.81 J+
Calcium		30000	2500000	80000 J	45000	210000	75000 J
Chromium	100	110	1030	**410**	**430**	**110**	**390 J-**
Chromium VI	100	92	690	**380**	**590**	92	**260**
Cobalt	11	0.57	50	**< 50 U**	< 2.2 U	6.3 J-	5.5 J
Copper	1300	0.79	120	8.1 J	< 4.8 U	120	39
Iron	300	2.4	1700	230 J	< 25 U	**950 J-**	**1700**
Lead	15	1.1	30	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	130	770	**320 J+**	**150**	**770 J+**	**250 J+**
Magnesium	207000	7500	1290000	42000 J	15000	79000	24000 J
Mercury	2	0.0029	0.2	0.035 J	< 0.0029 U	0.099 J-	0.14 J+
Molybdenum	183	190	360	**320**	**350**	**190**	**360**
Nickel	730	0.84	100	< 100 U	< 4.7 U	32 J	9.3 J-
Potassium		6800	15000	9400 J	8000	6800 J-	15000 J+
Selenium	50	4.8	50	< 25 U	< 13 U	< 27 U	8.1
Silicon		30000	43000	38000	41000	30000	43000
Silver	100	0.76	100	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		450000	4120000	1600000 J	1800000	1100000	1500000 J
Thallium	2	0.05	41	0.11 J	0.05 J	0.09 J+	0.16 J+
Tin	21900	2.4	250	< 250 U	< 14 U	< 28 U	42 J-
Titanium	146000	0.66	3900	870	140	3900	2700
Uranium	30	6.4	114	9.8	8.8	7.7	9.6
Vanadium	183	30.2	14000	**11000**	**12000**	**1400**	**14000 J-**
Zinc	11000	1.3	100	16 J	< 3.6 U	< 7.2 U	26
Zirconium	2.92	2.5	210	**28 J**	< 2.5 U	**210**	**190**
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.19	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	50	< 2 U	0.49 J	< 0.3 U	0.31 J
1,2-Dichloroethane	5	0.19	50	< 2 U	< 0.3 U	0.59 J	< 0.3 U
1,2-Dichloropropane	5	0.22	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	500	< 20 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	500	< 20 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	500	< 20 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.85	50	**2.2**	**2.4**	**1.2**	**1.9**
Bromoform	8.51	0.24	50	< 2 U	0.56 J	< 0.34 U	0.92 J

Table 6 Analytical Results for Well CLD4-R, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	100	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	2.4	50	**8.3**	**9**	4.5	**7.3**
Chlorobenzene	100	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	290	1400	**820**	**740**	**360**	**550**
Chloromethane	2.7	0.3	100	< 2 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.32	50	**< 2 U**	**0.47 J**	**0.32 J**	**0.4 J**
Ethylbenzene	700	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	50	2.4 J	< 0.32 U	< 0.3 U	0.35 J
Naphthalene	0.14	0.3	5	**< 2 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	0.3	52	0.72 J	0.64 J	0.85 J	0.3 J
Toluene	1000	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	4.32	1405	**822.2**	**743.4**	**361.5**	**553.2**
trans-1,2-Dichloroethene	100	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.29	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	50	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	100	< 2 U	< 0.6 U	NA	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 7 Analytical Results for Well CMT-101, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ANIONS (reported in mg/L)							
Chloride	4	1800	3700	**1900**	**1900**	**2800**	**1800**
Nitrate	10	9.3	15	9.8	9.3	**13**	9.4
Perchlorate	0.018	1.4	2.7	**1.5**	**1.4**	**2.1**	**1.4**
GENERAL (reported in mg/L)							
Nitrite	1	0.5	2	< 1 U	< 0.5 U	< 1 U	< 1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4300	9800	**5200**	**5400**	**6700**	**4300**
TOTAL METALS (reported in ug/L)							
Chromium	100	35	130	**110**	100	**130**	100 J-
Chromium VI	100	43	190	**130**	**140**	**190**	69
Uranium	30	20	50	21	22	23	20
VOLATILES (reported in ug/L)							
Chloroform	0.19	230	590	**300**	**320 J-**	**430**	**230**
Tetrachloroethene	5	0.18	4.1	1.6	2.2	3.3	< 0.18 U
Total Trihalomethanes (e)	80	230	592.9	**300**	**320**	**430**	**230**

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
\+ - Biased high
\- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 8 Analytical Results for Well EWQal-12, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		93	99	93	94	96 J	99 J
ANIONS (reported in mg/L)							
Chloride	4	940	1100	**1000**	**940**	**1100 J**	**1100 J**
Nitrate	10	15	17	**15**	**15 J**	**17 J**	**17 J**
Perchlorate	0.018	1.1	1.4	**1.2**	**1.4**	**1.1 J**	**1.1 J**
Sulfate	250	2000	2300	**2100**	**2000**	**2300 J**	**2200 J**
GENERAL (reported in mg/L)							
Fluoride	4	1.8	1.8	NA	NA	NA	1.8 J
Nitrite	1	0.5	1	< 1 U	< 0.5 U	< 0.5 U	< 1 U
Total Phosphorous		0.05	0.38	0.057	< 0.05 U	0.38	< 0.05 UJ-
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		21	26.9	22.7 ± 8.57 M3	26.9 ± 8.73 M3	22.6 ± 7.34 M3	21 ± 9.68
Adjusted Gross Alpha (Total) (c)	15	-11.74	-4.08	**-9.08**	**-4.08**	**-7.91**	**-11.74**
Beta (Total)	50	21.7	35.5	35.5 ± 10.6 M3	< 21.7 ± 14.3 U	24.4 ± 9.59 M3	< 22 ± 13.8 U
Uranium 238		12.9	14	13.3 ± 2.41	13.7 ± 2.71 M3	12.9 ± 2.17	14 ± 2.37
Uranium 234		16.9	18	17.7 ± 3.17	16.9 ± 3.25 M3	17 ± 2.82	18 ± 2.98
Thorium 230	0.042	-0.0169	0.125	**< 0.0642 ± 0.0534 U**	< -0.0169 ± 0.0495 U	**0.125 ± 0.0705 LT**	**< 0.083 ± 0.0521 U**
Radium 226	5	0.38	0.88	0.489 ± 0.366 LT	0.501 ± 0.328 J	0.88 ± 0.329 LT	< 0.38 ± 0.276 U
Radon 222	300	555	821	**821 ± 100**	**555 ± 72.9**	**642 ± 84.2**	**650 ± 81.9**
Lead 214		-3.58	17.5	< -3.58 ± 10.9 UJ-	< 9.29 ± 8.36 UJ-	< 17.5 ± 10.5 UJ-	< 16 ± 9.71 UJ-
Bismuth 214		-1.23	22	< -1.23 ± 11.5 UJ-	< 16.2 ± 11.7 UJ-	< 22 ± 13.2 UJ-	< 18 ± 10.8 UJ-
Thorium 232	0.14	0.0237	0.0408	0.0237 ± 0.0181 LT	0.0338 ± 0.0226 J	< 0.0408 ± 0.0272 U	NA
Radium 228	5	0.588	1.29	1.29 ± 0.461	0.588 ± 0.341 J	1.06 ± 0.341	0.92 ± 0.334
Radium (R226+R228) (d)	5	0.92	1.94	1.779	1.089	1.94	0.92
Actinium 228		10.4	17	17 ± 7.77 J	< 10.4 ± 13.5 U	16.5 ± 9.43 J	< 16 ± 10.3 U
Thorium 228	0.11	0.00995	0.112	< 0.00995 ± 0.0436 U	< 0.0241 ± 0.0546 U	**< 0.112 ± 0.0657 U**	< 0.077 ± 0.0495 U
Lead 212		-0.656	11.6	< 0.43 ± 6.9 U	< -0.656 ± 6.86 U	< 11.6 ± 7 U	< 11 ± 6.75 U
Bismuth 212		26.8	61	< 26.8 ± 34.3 U	< 45.6 ± 34.2 U	< 58.3 ± 35.4 U	< 61 ± 37.5 U
Thallium 208		-0.581	8	< -0.581 ± 4.85 U	< 2.31 ± 2.4 U	< 6.63 ± 3.94 U	< 8 ± 4.8 U
Potassium 40		-11.9	130	< -11.9 ± 68.7 U	< 5.28 ± 70.9 U	< 123 ± 73.1 U	< 130 ± 77.9 U
Uranium 235		0.375	0.783	0.783 ± 0.268	0.375 ± 0.273	0.612 ± 0.183	0.74 ± 0.222
Proactinium 234		35.8	730	< 35.8 ± 353 U	< 306 ± 370 U	< 702 ± 404 U	< 730 ± 432 U
Radium 224		-0.656	11.6	< 0.43 ± 6.9 U	< -0.656 ± 6.86 U	< 11.6 ± 7 U	< 11 ± 6.75 U
Thorium 227		-0.834	29	< -0.834 ± 12 U	< 7.67 ± 12.1 U	< 20.3 ± 11.9 U	< 29 ± 17.6 U
Thallium 234		-9.8	120	< -9.8 ± 84.6 U	< 1.42 ± 70.3 U	< 113 ± 68.4 U	< 120 ± 75.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5100	5200	**5200**	**5200**	**5200**	**5100**
TOTAL METALS (reported in ug/L)							
Aluminum	50	69	1300	**240 J**	**250 J**	**1300**	**69 J+**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	66	71	**71**	**71**	**66**	**67**
Barium	2000	27	30	28 J	27 J	30 J-	28 J-
Beryllium	4	0.23	10	**< 10 U**	< 0.88 U	< 1.8 U	0.23 J+

Table 8 Analytical Results for Well EWQal-12, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		500000	560000	560000	550000	510000 J	500000 J
Chromium	100	28	31	30 J	28 J	28 J-	31 J-
Chromium VI	100	33	40	40	40 J-	33	NA
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	1.8	50	< 50 U	< 4.8 U	< 9.7 U	1.8 J-
Iron	300	130	650	160 J	180 J	**650 J+**	130
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	210	340	**270**	**270**	**210 J+**	**340 J+**
Magnesium	207000	230000	250000	**250000**	**250000**	**230000 J**	**230000 J**
Mercury	2	0.0029	0.019	0.013 J	< 0.0029 U	0.019 J-	< 0.0029 U
Molybdenum	183	12	38	17 J	27 J	12 J-	38
Nickel	730	1.3	100	< 100 U	< 4.7 U	< 9.3 U	1.3 J-
Potassium		11000	22000	15000	15000	11000 J	22000 J+
Selenium	50	7.3	27	< 25 U	< 13 U	< 27 U	7.3
Silicon		43000	46000	45000	46000	45000	43000
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		540000	600000	560000	570000	600000 J	540000 J
Thallium	2	0.03	0.13	0.13 J	0.03 J	0.05 J+	0.04 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	5.5	74	14 J	17 J	74 J-	5.5 J-
Uranium	30	39	41	**41**	**39**	**41**	**39**
Vanadium	183	37	39	38 J	37 J	39 J-	39
Zinc	11000	0.72	100	< 100 U	< 3.6 U	< 7.2 U	< 0.72 U
Zirconium	2.92	0.5	13	**13 J**	< 2.5 U	**6.6 J-**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.44	0.57	0.57 J	0.44 J	0.48 J	0.44 J
1,2-Dichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	10	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	10	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.76	1.1	1.1	0.76 J	0.98 J	1.1
Chlorobenzene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	21	23	**23**	**21**	**21**	**21**
Chloromethane	2.7	0.3	1	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 8 Analytical Results for Well EWQal-12, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Dibromochloromethane	0.15	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	1	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	1	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	11	12	**12**	**11**	**11**	**11**
Toluene	1000	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	21	23	23	21	21	21
trans-1,2-Dichloroethene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.77	0.87	0.87 J	0.78 J	0.82 J	0.77 J
Trichlorofluoromethane	1290	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	2	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 9 Analytical Results for Well J2D1-R2, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		84	230	89	89	86	90
ANIONS (reported in mg/L)							
Chloride	4	1090	3000	**2800**	**2600**	**1800**	**1900**
Nitrate	10	10	65	10	**11**	**11**	**14**
Perchlorate	0.018	1.7	2.5	**1.7**	**1.8**	**1.7**	**1.8**
Sulfate	250	1300	2730	**1500**	**1300**	**1500**	**1500**
GENERAL (reported in mg/L)							
Fluoride	4	1.6	1.6	NA	NA	NA	1.6
Nitrite	1	0.5	2	**< 2 U**	< 1 U	< 0.5 U	< 1 U
Total Phosphorous		0.05	0.062	0.051	< 0.05 U	< 0.05 U	< 0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		13	159	30.7 ± 11 M3	28.8 ± 10.1 M3	17.9 ± 7.53 M3	< 13 ± 8.67 U
Adjusted Gross Alpha (Total) (c)	15	-74.4	85.4	**-8.5**	**-11.18**	**-14.46**	**-29.63**
Beta (Total)	50	16.7	83	25.9 ± 13.2 M3	29.5 ± 14 M3	23.8 ± 9.79 M3	25 ± 13.3
Uranium 238		11	51	16.7 ± 2.69	16.4 ± 3.11 M3	13.2 ± 2.29	12 ± 2.23
Uranium 234		15	66	21.8 ± 3.48	22.6 ± 4.11 M3	18.4 ± 3.14	17 ± 3.07
Thorium 230	0.042	-0.0482	0.97	< -0.0265 ± 0.0548 U	< -0.00796 ± 0.062 U	**< 0.112 ± 0.0598 U**	**< 0.078 ± 0.0446 U**
Radium 226	5	-0.7	2.67	0.804 ± 0.457 LT	1.51 ± 0.607	0.943 ± 0.351 LT	1.1 ± 0.485
Radon 222	300	931	2190	**2130 ± 248**	**1980 ± 230**	**2090 ± 246**	**1600 ± 185**
Lead 214		-33	439	< -7.41 ± 10.5 UJ-	26.4 ± 8.21 J-	34.2 ± 9.01 J	< 17 ± 10.2 UJ-
Bismuth 214		-24	400	< 7.42 ± 11.5 UJ-	30.4 ± 9.49 J-	40.7 ± 10.7 J-	< 18 ± 9 UJ-
Thorium 232	0.14	-0.013	0.26	< 0.00286 ± 0.0185 U	< -0.00444 ± 0.0247 U	< 0.0473 ± 0.0235 U	NA
Radium 228	5	-0.19	1.68	1.64 ± 0.58 J	< 0.00326 ± 0.321 U	0.647 ± 0.308 LT	0.95 ± 0.34
Radium (R226+R228) (d)	5	0	3.99	2.444	1.51	1.59	2.05
Actinium 228		-28	45	16.6 ± 9.54 J	16.2 ± 9.09 J	< 36.4 ± 21.9 U	< 25 ± 15.1 U
Thorium 228	0.11	-0.0338	0.47	< -0.0244 ± 0.0578 U	< 0.0164 ± 0.0678 U	**< 0.131 ± 0.0696 U**	< 0.074 ± 0.0424 U
Lead 212		-32	11	< 1.21 ± 6.75 U	< 3.86 ± 6.13 U	< 10.9 ± 6.56 U	< 11 ± 6.54 U
Bismuth 212		-50	57.2	< 23.3 ± 31.8 U	< 16.5 ± 33.9 U	< 55.5 ± 35.5 U	< 52 ± 32.7 U
Thallium 208		-21	8.6	< 2.81 ± 2.26 U	< -0.337 ± 4.56 U	< 4.05 ± 2.52 U	< 8.6 ± 5.15 U
Potassium 40		-110	165	< 22.7 ± 65.9 U	< 23.2 ± 63.1 U	< 114 ± 68.2 U	< 110 ± 67.5 U
Uranium 235		0.39	14.2	0.696 ± 0.175	0.983 ± 0.534 M3	0.762 ± 0.235	0.63 ± 0.234
Proactinium 234		-467	684	< 185 ± 378 U	< 291 ± 377 U	< 684 ± 401 U	< 650 ± 406 U
Radium 224		-3.14	11	< 1.21 ± 6.75 U	< 3.86 ± 6.13 U	< 10.9 ± 6.56 U	< 11 ± 6.54 U
Thorium 227		-45	19	< -0.434 ± 10.1 U	< 5.82 ± 6.3 U	< 18.9 ± 11.3 U	< 19 ± 11.3 U
Thallium 234		-48.7	159	< 2.42 ± 67.3 U	< 20.8 ± 32.9 U	< 125 ± 75.2 U	< 120 ± 72.8 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4450	8560	**7400**	**7300**	**6000**	**5500**
TOTAL METALS (reported in ug/L)							
Aluminum	50	14	1000	**100 J**	**< 76 U**	**< 150 UJ-**	< 15 U
Antimony	6	3	200	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U

Table 9 Analytical Results for Well J2D1-R2, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	48	318	**130**	**130**	**130**	**140**
Barium	2000	11	1530	25 J	22 J	11 J-	20 J-
Beryllium	4	0.081	20	**< 10 U**	< 0.88 U	< 1.8 U	0.25 J+
Cadmium	5	0.33	50	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		540000	1150000	760000 J	770000	640000	690000
Chromium	100	39	321	47 J	51	52 J-	61 J-
Chromium VI	100	59	86	61	62	72	74
Cobalt	11	0.45	100	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	100	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	2.7	91400	**< 500 U**	< 25 U	< 49 U	5.4 J+
Lead	15	1.3	45	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	340	550	**440 J+**	**460**	**340**	**550 J+**
Magnesium	207000	260000	597000	**360000**	**370000**	**300000**	**300000**
Mercury	2	0.0029	0.2	0.0061 J	0.036 J	< 0.003 U	< 0.0029 U
Molybdenum	183	41	190	**190**	170	54 J-	55
Nickel	730	0.72	200	< 100 U	< 4.7 U	< 9.3 U	0.97 J-
Potassium		15000	34000	30000	32000	15000	30000 J+
Selenium	50	4	50	< 25 U	< 13 U	< 27 U	5.6
Silicon		40000	47000	45000	47000	45000	44000
Silver	100	0.83	100	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		450000	820000	820000	810000	550000 J+	490000
Thallium	2	0.02	200	0.05 J	0.05 J	0.02 J+	0.02 J+
Tin	21900	2.8	500	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	200	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	35	160	**47**	**49**	**38**	**39**
Vanadium	183	24	357	90	95	97 J	93
Zinc	11000	0.36	190	< 100 U	< 3.6 U	190 J-	0.78 J-
Zirconium	2.92	0.5	20	**8 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.25	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	1.5	8	2.1	1.5	2.3	1.8
1,2-Dichloroethane	5	0.16	10	< 1 U	0.3 J	0.74 J	1.4
1,2-Dichloropropane	5	0.14	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	40	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	40	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	40	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.17	10	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	10	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U

Table 9 Analytical Results for Well J2D1-R2, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	20	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.36	10	0.79 J	0.36 J	0.79 J	0.52 J
Chlorobenzene	100	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	40	88	**57**	**55**	**50**	**45**
Chloromethane	2.7	0.3	20	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.24	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	10	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.18	24	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	2	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	25	250	**41**	**25**	**26**	**26**
Toluene	1000	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	40	88	57	55	50	45
trans-1,2-Dichloroethene	100	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.57	15	0.87 J	0.69 J	0.69 J	0.57 J
Trichlorofluoromethane	1290	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	20	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 10 Analytical Results for Well J2D2-R2, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		66	116	96	96 J	97	100
ANIONS (reported in mg/L)							
Chloride	4	543	3300	**1700**	**1400 J**	**1800**	**1700**
Nitrate	10	21.4	66.7	**39**	**40 J**	**42**	**42**
Perchlorate	0.018	0.66	0.84	**0.67**	**0.7 J**	**0.7**	**0.71**
Sulfate	250	851	2690	**1600**	**1600 J**	**1600**	**1700**
GENERAL (reported in mg/L)							
Fluoride	4	2.6	2.6	NA	NA	NA	2.6
Nitrite	1	0.5	1	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U
Total Phosphorous		0.05	0.086	0.054	< 0.05 U	< 0.05 U	< 0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		15	210	31.8 ± 9.94 M3	32.5 ± 9.81 M3	210 ± 37.1 J	45 ± 12.6
Adjusted Gross Alpha (Total) (c)	15	-92	149.7	**-30.29**	**-28.67**	**149.7**	**-22.6**
Beta (Total)	50	14.2	115	27.8 ± 13.4 M3	< 17.1 ± 12.3 U	**115 ± 23.6 J**	27 ± 13.3 J+
Uranium 238		9.7	39	27.3 ± 4.86	26 ± 4.43	25.5 ± 4.18	29 ± 5.22
Uranium 234		12	51	33.5 ± 5.92	34 ± 5.75	33.5 ± 5.47	37 ± 6.69
Thorium 230	0.042	-0.0618	0.091	< 0.003 ± 0.0627 U	< -0.0171 ± 0.0575 U	**< 0.091 ± 0.0504 U**	**< 0.091 ± 0.0516 U**
Radium 226	5	-0.41	1.02	< 0.403 ± 0.338 U	0.476 ± 0.324 J	0.971 ± 0.409 LT	0.79 ± 0.354
Radon 222	300	1360	2070	**1910 ± 223**	**1710 ± 201**	**1850 ± 217**	**1700 ± 196 J-**
Lead 214		-6.8	215	< 4.18 ± 5.99 UJ-	215 ± 27.2 J-	34.6 ± 9.26 J-	< 16 ± 9.92 UJ-
Bismuth 214		-24.9	201	10.9 ± 5.31 J-	201 ± 27.8 J	< 47.1 ± 27 UJ-	< 19 ± 11.6 UJ-
Thorium 232	0.14	-0.0113	0.0229	< 0.00636 ± 0.0186 U	< 0.00196 ± 0.0257 U	< 0.0229 ± 0.0131 U	NA
Radium 228	5	0.368	1.25	1.25 ± 0.493 J	< 0.586 ± 0.377 U	0.676 ± 0.255 LT	0.56 ± 0.269
Radium (R226+R228) (d)	5	0	2.24	1.25	0.476	1.647	1.35
Actinium 228		-4.57	28.8	< -0.922 ± 19.6 U	< 10.6 ± 8.29 U	< 28.8 ± 17.1 U	15 ± 8.93 J
Thorium 228	0.11	-0.0657	0.11	< -0.00936 ± 0.0643 U	< -0.0657 ± 0.0699 U	< 0.104 ± 0.0574 U	< 0.11 ± 0.0617 U
Lead 212		-2.14	12	< 0.322 ± 7.24 U	< 2.16 ± 7.2 U	< 10.1 ± 6.06 U	< 12 ± 7.18 U
Bismuth 212		-10.1	55.6	< 40.8 ± 36 U	< 22 ± 37.2 U	< 55.6 ± 33.6 U	< 52 ± 30 U
Thallium 208		-0.117	8.46	< 3.62 ± 2.51 U	< 1.93 ± 6.03 U	< 8.46 ± 5.08 U	< 7.3 ± 4.4 U
Potassium 40		-70.2	120	< -3.24 ± 71 U	< 5.75 ± 74.4 U	< 105 ± 62.7 U	< 120 ± 75.2 U
Uranium 235		0.56	2	1.29 ± 0.386	1.17 ± 0.319	1.29 ± 0.305	1.6 ± 0.465
Proactinium 234		-240	640	< 249 ± 263 U	< -240 ± 523 U	< 627 ± 386 U	640 ± 354 J
Radium 224		-2.14	12	< 0.322 ± 7.24 U	< 2.16 ± 7.2 U	< 10.1 ± 6.06 U	< 12 ± 7.18 U
Thorium 227		-14.1	23.1	< 10 ± 18.2 U	< -4.4 ± 22.4 U	< 23.1 ± 14.2 U	< 22 ± 12.9 U
Thallium 234		-39.4	230	< 53.2 ± 138 U	< -27.6 ± 47.7 U	< 67.5 ± 40.8 U	< 230 ± 137 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4100	9100	**5700**	**5800 J**	**6300 J**	**5700**
TOTAL METALS (reported in ug/L)							
Aluminum	50	4.5	500	**< 500 U**	**< 76 U**	**< 150 U**	48 J+
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U

Table 10 Analytical Results for Well J2D2-R2, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	96	156	**130**	**130**	**120**	**130**
Barium	2000	9.3	237	14 J	11 J	9.3 J-	19 J-
Beryllium	4	0.081	10	**< 10 U**	< 0.88 U	< 1.8 U	0.54 J+
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		590000	1100000	710000 J	680000 J	690000	750000
Chromium	100	40	81.9	45 J	47 J	44 J-	61 J-
Chromium VI	100	46	67	57	59	66	67
Cobalt	11	1.9	50	**< 50 U**	< 2.2 U	< 4.5 U	3.1 J
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	2	9230	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	0.96	15	< 15 U	< 6.4 U	< 13 U	2.2 J-
Lithium	73	470	700	**550 J+**	**510 J**	**470 J+**	**700 J+**
Magnesium	207000	270000	480000	**320000**	**310000 J**	**320000**	**350000**
Mercury	2	0.0029	0.2	0.0088 J	0.037 J	< 0.003 U	< 0.0029 U
Molybdenum	183	11	32	22 J	17 J	< 11 U	30
Nickel	730	1.2	100	< 100 U	< 4.7 U	< 9.3 U	1.9 J-
Potassium		11000	30000	15000	15000 J	11000	27000 J+
Selenium	50	4.2	27	< 25 U	< 13 U	< 27 U	5.7
Silicon		37000	46000	44000	44000	41000	45000
Silver	100	0.61	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		400000	729000	450000	470000 J	460000	450000
Thallium	2	0.025	200	0.05 J	0.04 J	0.03 J+	0.04 J+
Tin	21900	2.3	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	33	115	**80**	**76**	**76**	**82**
Vanadium	183	31	74.6	47 J	47 J	45 J-	51 J-
Zinc	11000	0.99	100	< 100 U	< 3.6 U	< 7.2 U	1.8 J-
Zirconium	2.92	0.5	100	**15 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.23	5	0.36 J	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.39	5	0.74 J	0.59 J	0.66 J	0.39 J
1,2-Dichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	50	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	50	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	2	50	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.068	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.13	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	5	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U

Table 10 Analytical Results for Well J2D2-R2, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	10	< 1 U	< 0.3 U	< 0.3 UJ	< 0.3 U
Carbon disulfide	1040	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	1.1	3.6	1.7	1.6	1.2	1.1
Chlorobenzene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	41	140	**56**	**54**	**47**	**50**
Chloromethane	2.7	0.3	10	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.17	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	5	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	1	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	5	170	**84**	**77**	**68**	**62**
Toluene	1000	0.17	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	0	140.1	56	54	47	50
trans-1,2-Dichloroethene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	5.3	18	**7.4**	**6.8**	**5.7**	**5.3**
Trichlorofluoromethane	1290	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	10	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 11 Analytical Results for Well J2D4, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		99	480	NA	100 J	99	100 J
ANIONS (reported in mg/L)							
Chloride	4	184	6300	**3900 J**	**3400 J**	**3600**	**3800 J**
Nitrate	10	13.1	54	**28 J**	**32 J**	**43**	**42 J**
Perchlorate	0.018	2.3	3.8	**3.1 J**	**3.7 J**	**3.8**	**3.8 J**
Sulfate	250	1700	4020	**2000 J**	**1700 J**	**1800**	**1900 J**
GENERAL (reported in mg/L)							
Fluoride	4	2.8	2.8	NA	NA	NA	2.8 J
Nitrite	1	1	2	**< 2 U**	< 1 U	< 1 U	**< 2 U**
Total Phosphorous		0.05	0.68	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 UJ-
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		6.02	164	< 6.02 ± 12.1 U	20.5 ± 9.78 M3	< 13.4 ± 8.78 U	< 21 ± 11.9 U
Adjusted Gross Alpha (Total) (c)	15	-93.26	117.7	**-23.47**	**-5.11**	**-23.51**	**-27.57**
Beta (Total)	50	6.02	94	49.3 ± 17.3 M3	22.6 ± 12.7 M3	34.3 ± 13.6 M3	27 ± 15.2
Uranium 238		9.5	59	9.5 ± 1.8	10.7 ± 2.37 M3	10 ± 1.86	12 ± 2.02
Uranium 234		13	84	13.4 ± 2.47	14.5 ± 3.03 M3	13 ± 2.37 M3	15 ± 2.64
Thorium 230	0.042	-0.0679	4.46	< -0.0537 ± 0.0611 U	< -0.06 ± 0.0573 U	**< 0.116 ± 0.0549 U**	**< 0.075 ± 0.0401 U**
Radium 226	5	0.0899	4	0.409 ± 0.266 LT	0.377 ± 0.236 J	0.379 ± 0.183 LT	0.46 ± 0.262
Radon 222	300	1280	2390	**2160 ± 253**	**1890 ± 221**	**1950 ± 228**	**1800 ± 212**
Lead 214		-39	215	< 4.65 ± 8.4 UJ-	215 ± 27.9 J-	27.2 ± 9.69 J-	23 ± 8.59 J-
Bismuth 214		-13	202	< 10.2 ± 9.33 UJ-	202 ± 26.9 J-	32.4 ± 13.2 J-	22 ± 9.08 J-
Thorium 232	0.14	-0.00424	0.85	< -0.00424 ± 0.0234 U	< 0.00965 ± 0.0322 U	< 0.0315 ± 0.0218 U	NA
Radium 228	5	-1	1.94	1.29 ± 0.489 J	< 0.53 ± 0.318 U	0.654 ± 0.327 LT	0.88 ± 0.32
Radium (R226+R228) (d)	5	0	4.21	1.699	0.377	1.033	1.34
Actinium 228		-35	27.2	< 9.3 ± 10.2 U	< -6.4 ± 27.4 U	23.4 ± 11 J	< 17 ± 10.3 U
Thorium 228	0.11	-0.0741	1.24	< 0.00579 ± 0.0845 U	< 0.0313 ± 0.0888 U	**< 0.141 ± 0.0716 U**	< 0.067 ± 0.0417 U
Lead 212		-34	15.4	< -0.846 ± 6.91 U	< 2.87 ± 6.46 U	< 14.8 ± 8.89 U	< 12 ± 7.1 U
Bismuth 212		-27	110	< -5.07 ± 36 U	< -10.1 ± 39.9 U	< 66.3 ± 40.2 U	< 61 ± 38.6 U
Thallium 208		-6	7.8	< 1.21 ± 5.69 U	< 1.9 ± 7.86 U	< 4.66 ± 2.91 U	< 7.8 ± 4.71 U
Potassium 40		-140	237	< 33.7 ± 68.7 U	< 11.3 ± 94.7 U	< 161 ± 96 U	< 130 ± 77.6 U
Uranium 235		0.406	4.9	0.572 ± 0.23	0.406 ± 0.346 M3	0.506 ± 0.204	0.57 ± 0.193
Proactinium 234		11.4	780	< 278 ± 426 U	< 240 ± 513 U	768 ± 469 J	< 780 ± 451 U
Radium 224		-3.82	14.8	< -0.846 ± 6.91 U	< 2.87 ± 6.46 U	< 14.8 ± 8.89 U	< 12 ± 7.1 U
Thorium 227		-15.1	33.8	< -8.54 ± 10.7 U	< 13.1 ± 15.8 U	< 33.8 ± 19.9 U	< 29 ± 17.6 U
Thallium 234		-44.9	248	< -38.1 ± 46 U	< 6.22 ± 73.6 U	< 174 ± 105 U	< 120 ± 75.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5810	14000	**9800**	**9800 J**	**10000**	**9400**
TOTAL METALS (reported in ug/L)							
Aluminum	50	15	500	**130 J**	**< 76 U**	**< 150 UJ-**	< 15 U
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	93.8	226	**130**	**120**	**120**	**130**
Barium	2000	16	1000	20 J	17 J	16 J-	23 J-

Table 11 Analytical Results for Well J2D4, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Beryllium	4	0.12	10	**< 10 U**	< 0.88 U	< 1.8 U	0.22 J+
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		640000	1300000	680000 J	690000 J	740000	790000 J
Chromium	100	87	290	**240**	**220**	**230**	**200 J-**
Chromium VI	100	220	400	**280**	**270**	**280**	NA
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	1.4	50	< 50 U	< 4.8 U	< 9.7 U	1.4 J-
Iron	300	1.5	26500	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1.2	17.6	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	500	770	**580 J+**	**590 J**	**500**	**730 J+**
Magnesium	207000	240000	415000	**280000 J**	**280000 J**	**310000**	**300000 J**
Mercury	2	0.0029	0.31	0.0085 J	0.035 J	0.0096 J-	< 0.0029 U
Molybdenum	183	310	880	**720**	**700**	**730**	**670**
Nickel	730	0.72	100	< 100 U	< 4.7 U	< 9.3 U	1.9 J-
Potassium		21000	47000	30000 J	29000 J	21000	40000 J+
Selenium	50	5	30.8	< 25 U	< 13 U	< 27 U	8.1
Silicon		38000	46000	45000	46000	46000	46000
Silver	100	2.2	50	< 50 U	< 5.4 U	< 11 U	2.7 J-
Sodium		700000	3000000	1800000 J	1700000 J	1600000 J+	1600000 J
Thallium	2	0.016	200	0.02 J	0.18 J	< 0.016 U	< 0.016 U
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	28	180	28	28	28	**32**
Vanadium	183	39	143	69	71	63 J	68
Zinc	11000	0.35	100	< 100 U	< 3.6 U	17 J-	< 0.72 U
Zirconium	2.92	0.5	20	**13 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.17	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.31	25	0.51 J	0.45 J	0.31 J	0.42 J
1,2-Dichloroethane	5	0.27	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.14	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	250	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	250	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	250	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.17	25	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.15	25	0.66 J	< 0.3 U	0.65 J	< 0.34 U
Bromomethane	8.66	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	1	25	3.6	2.2	2.3	2.2
Chlorobenzene	100	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 11 Analytical Results for Well J2D4, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Chloroform	0.19	180	930	**620**	**450**	**460**	**410**
Chloromethane	2.7	0.3	50	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	25	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	31	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	2	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	2.1	24	3.1	2.1	2.6	3
Toluene	1000	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	180	931.8	**620.7**	**450**	**460.6**	**410**
trans-1,2-Dichloroethene	100	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	25	0.35 J	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	25	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	50	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 12 Analytical Results for Well J2U2, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		82	140	130	130	140 J	140
ANIONS (reported in mg/L)							
Chloride	4	204	1770	**1100**	**1000**	**1100 J**	**960**
Nitrate	10	7.8	85.5	**39**	**39**	**36 J**	**33**
Perchlorate	0.018	0.48	1	**0.55**	**0.59**	**0.56 J**	**0.48**
Sulfate	250	1010	2530	**1700**	**1600**	**1800 J**	**1800**
GENERAL (reported in mg/L)							
Fluoride	4	1	1	NA	NA	NA	1 J-
Nitrite	1	0.5	1	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U
Total Phosphorous		0.05	0.2	< 0.05 U	< 0.05 U	0.066	< 0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		35.9	164	44.1 ± 9.97 J	35.9 ± 10.7 M3	57.2 ± 12.2 M3	56 ± 13.3
Adjusted Gross Alpha (Total) (c)	15	-93.92	69	**-73.5**	**-66**	**-33.04**	**-47**
Beta (Total)	50	10.3	62.2	13.8 ± 7.25 M3	< 10.3 ± 13.9 U	27.7 ± 9.46 M3	35 ± 14.2 J+
Uranium 238		20.3	63	47.3 ± 8.35	41.2 ± 7	36.9 ± 5.97	42 ± 7.01
Uranium 234		28.7	79	68.1 ± 11.9	58.5 ± 9.89	51.3 ± 8.28	59 ± 9.86
Thorium 230	0.042	-0.0591	1	< -0.0389 ± 0.0693 U	< -0.039 ± 0.0576 U	**< 0.12 ± 0.0594 U**	**< 0.076 ± 0.0442 U**
Radium 226	5	-0.155	1.53	0.397 ± 0.261 LT	0.65 ± 0.331 J	0.524 ± 0.235 LT	0.42 ± 0.24
Radon 222	300	561	1370	**1350 ± 159**	**1000 ± 121**	**1150 ± 140**	**580 ± 70.6**
Lead 214		-24	180	8.96 ± 4.99 J-	180 ± 24.1 J	< 17.3 ± 10.4 UJ-	< 15 ± 9.04 UJ-
Bismuth 214		-20	172	< -1.09 ± 12.5 UJ-	172 ± 33.9 J	< 19 ± 11.6 UJ-	< 21 ± 12.5 UJ-
Thorium 232	0.14	-0.036	0.22	< 0.012 ± 0.0372 U	< 0.0148 ± 0.0324 U	< 0.0109 ± 0.0172 U	NA
Radium 228	5	-0.22	1.19	0.898 ± 0.391 J	< 0.555 ± 0.353 U	0.716 ± 0.347 LT	0.75 ± 0.305 J+
Radium (R226+R228) (d)	5	0	2.34	1.295	0.65	1.24	1.17
Actinium 228		-25	21	< 2.16 ± 29.1 U	< 15.8 ± 12.6 U	18 ± 8.81 J	< 16 ± 10.5 U
Thorium 228	0.11	-0.0507	0.38	< -0.012 ± 0.0875 U	< 0.0545 ± 0.0757 U	**< 0.148 ± 0.0738 U**	< 0.079 ± 0.042 U
Lead 212		-34	11.5	< 1.73 ± 7.76 U	< 3.99 ± 8 U	< 11.5 ± 6.96 U	< 11 ± 6.85 U
Bismuth 212		-60	64	< 30 ± 40.4 U	< 41.2 ± 44.6 U	61.4 ± 36.6 J	< 64 ± 38.2 U
Thallium 208		-10.6	4.97	< 0.067 ± 6.39 U	< 0.481 ± 5.37 U	< 3.98 ± 2.52 U	< 4.3 ± 2.7 U
Potassium 40		-59	120	< -26.3 ± 83.3 U	< -57.3 ± 80.8 U	< 113 ± 66.9 U	< 120 ± 69.9 U
Uranium 235		0.9	13.6	2.25 ± 0.576	2.17 ± 0.508	2.04 ± 0.423	2 ± 0.463
Proactinium 234		-253	819	732 ± 453 J	< -253 ± 552 U	< 538 ± 329 U	< 740 ± 441 U
Radium 224		-2.55	11.5	< 1.73 ± 7.76 U	< 3.99 ± 8 U	< 11.5 ± 6.96 U	< 11 ± 6.85 U
Thorium 227		-21.3	20.4	< -21.3 ± 20.9 U	< 2.2 ± 21.9 U	< 20.4 ± 11.9 U	< 18 ± 11.1 U
Thallium 234		-28.7	113	< 5.56 ± 52 U	< 27.3 ± 91.6 U	< 113 ± 68.4 U	< 73 ± 36.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2000	6000	**4800**	**4900**	**4800**	**4600**
TOTAL METALS (reported in ug/L)							
Aluminum	50	18	530	**96 J**	**< 76 U**	**200 J+**	18 J+
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	100	171	**110**	**110**	**100**	**110**
Barium	2000	9.7	68.1	16 J	16 J	9.7 J-	20 J-
Beryllium	4	0.081	10	**< 10 U**	< 0.88 U	< 1.8 U	0.19 J+

Table 12 Analytical Results for Well J2U2, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		204000	715000	510000 J	550000	500000 J	500000
Chromium	100	11.2	100	60	100	92 J-	88 J-
Chromium VI	100	54	120	78	**120**	**110**	97
Cobalt	11	2.2	50	**< 50 U**	< 2.2 U	< 4.5 U	2.5 J
Copper	1300	0.96	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	4920	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	340	640	**430 J+**	**470 J**	**530 J+**	**530 J+**
Magnesium	207000	101000	350000	**280000**	**290000**	**270000 J**	**270000**
Mercury	2	0.0064	0.2	0.018 J	0.041 J	0.0067 J-	0.019 J+
Molybdenum	183	21	37	21 J	30 J	23 J-	37
Nickel	730	1.5	100	< 100 U	< 4.7 U	< 9.3 U	3 J-
Potassium		12000	23000	13000	15000 J+	12000 J	21000 J+
Selenium	50	1.3	27	< 25 U	< 13 U	< 27 U	6.4
Silicon		40000	46000	42000	46000	43000	45000
Silver	100	0.64	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		5000	470000	390000	450000	420000 J	370000
Thallium	2	0.04	45	0.07 J	0.09 J	0.07 J+	0.08 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	29.8	254	**130**	**120**	**110**	**120**
Vanadium	183	25	145	28 J	30 J	30 J-	33 J-
Zinc	11000	0.72	100	< 100 U	< 3.6 U	< 7.2 U	< 0.72 U
Zirconium	2.92	0.5	20	**7.5 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.21	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.24	5	0.39 J	< 0.3 U	0.38 J	< 0.3 U
1,2-Dichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	50	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	50	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	50	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.074	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.2	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	5	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.49	5.8	4	3.2	3.8	2.7
Chlorobenzene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	17	160	**71**	**62**	**66**	**50**
Chloromethane	2.7	0.3	10	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.23	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 12 Analytical Results for Well J2U2, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Dibromochloromethane	0.15	0.18	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.22	5.3	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	1	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	29	120	**55**	**47**	**53**	**38**
Toluene	1000	0.11	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	0	160	**< 0**	62	66	50
trans-1,2-Dichloroethene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	3.5	21	**12**	**11**	**13**	**9**
Trichlorofluoromethane	1290	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	10	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 13 Analytical Results for Well M-129, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		140	140	NA	NA	140 J	NA
ANIONS (reported in mg/L)							
Chloride	4	1000	1300	**1100**	**1100**	**1300 J**	**1000**
Nitrate	10	18	18	NA	NA	**18 J**	NA
Perchlorate	0.018	39	81	**41**	**39**	**49 J**	**81**
Sulfate	250	2500	2500	NA	NA	**2500 J**	NA
GENERAL (reported in mg/L)							
Nitrite	1	1	1	NA	NA	< 1 U	NA
Total Phosphorous		0.068	0.068	NA	NA	0.068	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		21.8	21.8	NA	NA	21.8 ± 11.2 M3	NA
Adjusted Gross Alpha (Total) (c)	15	3.72	3.72	NA	NA	3.72	NA
Beta (Total)	50	35	35	NA	NA	35 ± 14.5 M3	NA
Uranium 238		6.82	6.82	NA	NA	6.82 ± 1.22	NA
Uranium 234		10.9	10.9	NA	NA	10.9 ± 1.88	NA
Thorium 230	0.042	0.0917	0.0917	NA	NA	**< 0.0917 ± 0.0583 U**	NA
Radium 226	5	0.592	0.592	NA	NA	0.592 ± 0.247 LT	NA
Radon 222	300	1180	1180	NA	NA	**1180 ± 140**	NA
Lead 214		16.7	16.7	NA	NA	< 16.7 ± 10 UJ-	NA
Bismuth 214		19.4	19.4	NA	NA	< 19.4 ± 11.7 UJ-	NA
Thorium 232	0.14	0.0309	0.0309	NA	NA	< 0.0309 ± 0.0195 U	NA
Radium 228	5	1.17	1.17	NA	NA	1.17 ± 0.356	NA
Radium (R226+R228) (d)	5	1.762	1.762	NA	NA	1.762	NA
Actinium 228		30.8	30.8	NA	NA	< 30.8 ± 18.3 U	NA
Thorium 228	0.11	0.102	0.102	NA	NA	< 0.102 ± 0.0618 U	NA
Lead 212		10.6	10.6	NA	NA	< 10.6 ± 6.43 U	NA
Bismuth 212		56.2	56.2	NA	NA	< 56.2 ± 34.8 U	NA
Thallium 208		8.47	8.47	NA	NA	< 8.47 ± 5.09 U	NA
Potassium 40		9.3	9.3	NA	NA	< 110 ± 65.7 U	NA
Uranium 235		0.363	0.363	NA	NA	0.363 ± 0.145	NA
Proactinium 234		643	643	NA	NA	< 643 ± 385 U	NA
Radium 224		10.6	10.6	NA	NA	< 10.6 ± 6.43 U	NA
Thorium 227		26.8	26.8	NA	NA	< 26.8 ± 16 U	NA
Thallium 234		122	122	NA	NA	< 122 ± 65.8 U	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5500	6100	**5600**	**6100**	**6100**	**5900**
TOTAL METALS (reported in ug/L)							
Aluminum	50	150	150	NA	NA	**< 150 U**	NA
Antimony	6	30	30	NA	NA	**< 30 U**	NA

Table 13 Analytical Results for Well M-129, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	160	160	NA	NA	**160**	NA
Barium	2000	8.4	8.4	NA	NA	8.4 J-	NA
Beryllium	4	1.8	1.8	NA	NA	< 1.8 U	NA
Cadmium	5	3.3	3.3	NA	NA	< 3.3 U	NA
Calcium		380000	380000	NA	NA	380000 J	NA
Chromium	100	920	920	NA	NA	**920**	NA
Chromium VI	100	770	1000	**770**	**820**	**1000**	**1000**
Cobalt	11	4.5	4.5	NA	NA	< 4.5 U	NA
Copper	1300	9.7	9.7	NA	NA	< 9.7 U	NA
Iron	300	49	49	NA	NA	< 49 U	NA
Lead	15	13	13	NA	NA	< 13 U	NA
Lithium	73	440	440	NA	NA	**440**	NA
Magnesium	207000	220000	220000	NA	NA	**220000 J**	NA
Mercury	2	0.003	0.003	NA	NA	< 0.003 U	NA
Molybdenum	183	61	61	NA	NA	61 J-	NA
Nickel	730	9.3	9.3	NA	NA	< 9.3 U	NA
Potassium		18000	18000	NA	NA	18000 J	NA
Selenium	50	27	27	NA	NA	< 27 U	NA
Silicon		44000	44000	NA	NA	44000	NA
Silver	100	11	11	NA	NA	< 11 U	NA
Sodium		980000	980000	NA	NA	980000 J	NA
Thallium	2	0.09	0.09	NA	NA	0.09 J+	NA
Tin	21900	28	28	NA	NA	< 28 U	NA
Titanium	146000	2.7	2.7	NA	NA	< 2.7 U	NA
Uranium	30	17	21	18	21	21	17
Vanadium	183	100	100	NA	NA	100	NA
Zinc	11000	7.2	7.2	NA	NA	< 7.2 U	NA
Zirconium	2.92	5	5	NA	NA	**< 5 U**	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	0.3	NA	NA	< 0.3 U	NA
1,1,2-Trichloroethane	5	0.3	0.3	NA	NA	< 0.3 U	NA
1,1-Dichloroethane	2.42	0.3	0.3	NA	NA	< 0.3 U	NA
1,1-Dichloroethene	7	0.23	0.3	NA	NA	< 0.3 U	NA
1,2-Dichloroethane	5	0.3	0.3	NA	NA	< 0.3 U	NA
1,2-Dichloropropane	5	0.3	0.3	NA	NA	< 0.3 U	NA
1,3-Dichlorobenzene	86.7	0.3	0.3	NA	NA	< 0.3 U	NA
2-Butanone	7060	3	3	NA	NA	< 3 UJ	NA
4-Methyl-2-pentanone	1990	3.4	3.4	NA	NA	< 3.4 UJ	NA
Acetone	21800	3	3	NA	NA	< 3 U	NA
Benzene	5	0.3	1	NA	NA	< 0.3 U	NA
Bromodichloromethane	0.12	0.57	0.57	NA	NA	**0.57 J**	NA
Bromoform	8.51	0.34	0.34	NA	NA	< 0.34 U	NA

Table 13 Analytical Results for Well M-129, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	0.3	NA	NA	< 0.3 UJ	NA
Carbon disulfide	1040	0.3	0.3	NA	NA	< 0.3 U	NA
Carbon tetrachloride	5	1.1	1.1	NA	NA	1.1	NA
Chlorobenzene	100	0.3	1	NA	NA	< 0.3 U	NA
Chloroform	0.19	200	270	**270**	**270**	**230**	**200**
Chloromethane	2.7	0.3	0.3	NA	NA	< 0.3 U	NA
cis-1,2-Dichloroethene	70	0.3	0.3	NA	NA	< 0.3 U	NA
Dibromochloromethane	0.15	0.3	0.3	NA	NA	**< 0.3 U**	NA
Ethylbenzene	700	0.3	0.3	NA	NA	< 0.3 U	NA
Methylene chloride	5	0.3	0.3	NA	NA	< 0.3 U	NA
Naphthalene	0.14	0.3	0.3	NA	NA	**< 0.3 U**	NA
Styrene	100	0.3	0.3	NA	NA	< 0.3 U	NA
Tetrachloroethene	5	0.69	1.4	1.1	1.1	1	0.69 J
Toluene	1000	0.3	1	NA	NA	< 0.3 U	NA
Total Trihalomethanes (e)	80	200	270	**270**	**270**	**230.6**	**200**
trans-1,2-Dichloroethene	100	0.3	0.3	NA	NA	< 0.3 U	NA
Trichloroethene	5	0.3	1	NA	NA	< 0.3 U	NA
Trichlorofluoromethane	1290	0.3	0.3	NA	NA	< 0.3 U	NA
Vinyl chloride	2	0.3	0.3	NA	NA	< 0.3 U	NA
Total Xylene	10000	2	2	NA	NA	< 2 U	NA

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 14 Analytical Results for Well M-130, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ANIONS (reported in mg/L)							
Chloride	4	870	1400	**1400**	**890**	**900**	**870**
Perchlorate	0.018	37	68	**43**	**40**	**61**	**68**
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4900	6100	**6100**	**5800**	**5800**	**4900**
TOTAL METALS (reported in ug/L)							
Chromium VI	100	740	830	**780**	**800**	**830**	**780**
Uranium	30	16	23	21	20	18	23 J-
VOLATILES (reported in ug/L)							
Chloroform	0.19	160	320	**320**	**230**	**200**	**160**
Tetrachloroethene	5	0.3	2.4	0.72 J	0.68 J	0.76 J	0.3 J
Total Trihalomethanes (e)	80	160	320	**320**	**230**	**200**	**160**

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
\+ - Biased high
\- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 15 Analytical Results for Well TIMETMW-1, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	10	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	10	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	2.5	4.4	3.4	2.6	2.5	2.6
Chlorobenzene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	42	56	**56**	**42**	**47**	**50**
Chloromethane	2.7	0.3	1	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	1	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	1	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	19	32	**23**	**21**	**19**	**19**
Toluene	1000	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	42	56	56	42	47	50
trans-1,2-Dichloroethene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	4.6	12	**9.6**	**6**	**5.1**	4.6
Trichlorofluoromethane	1290	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	2	< 2 U	< 0.6 U	< 2 U	< 2 U

Table 15 Analytical Results for Well TIMETMW-1, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 16 Analytical Results for Well TIMETMW-3R, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		85	130	99	91	85	130 J
ANIONS (reported in mg/L)							
Chloride	4	170	1900	**560**	**930**	**1400**	**1900 J**
Nitrate	10	1.7	6.1	3.2	3.7	1.7	6.1 J
Perchlorate	0.018	0.06	0.47	**0.16**	**0.26**	**0.38**	**0.47 J**
Sulfate	250	770	1200	**780**	**770**	**790**	**840 J**
GENERAL (reported in mg/L)							
Fluoride	4	1.1	1.1	NA	NA	NA	1.1 J
Nitrite	1	0.15	1	< 0.5 U	< 0.15 U	< 0.5 U	< 1 U
Total Phosphorous		0.015	0.14	0.058	< 0.015 U	< 0.05 U	< 0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		6.25	15.6	10.7 ± 3.93 M3	13.6 4.92 M3	15.6 ± 5.36 M3	15 ± 7.75
Adjusted Gross Alpha (Total) (c)	15	-8.37	1.54	**-2.93**	NA	1.54	0.02
Beta (Total)	50	5.09	31	11.3 ± 4.51 M3	10.3 6.33 M3	12.6 ± 6.87 M3	31 ± 13.7 J+
Uranium 238		5.64	6.6	5.81 ± 1.19	6 ± 1.18	6.26 ± 1.11 J+	6.6 ± 1.18
Uranium 234		7.47	8.31	7.56 ± 1.49	7.99 ± 1.52 M3	7.47 ± 1.3	8 ± 1.42
Thorium 230	0.042	-0.0382	0.185	**< 0.12 ± 0.0819 U**	< -0.0382 ± 0.0467 U	**0.165 ± 0.0879 LT**	**< 0.082 ± 0.0448 U**
Radium 226	5	0	0.939	0.323 ± 0.254 LT	0.286 ± 0.203 J	0.939 ± 0.427 LT	0.73 ± 0.341
Radon 222	300	206	783	**626 ± 79.1**	**678 ± 84.2**	**602 ± 78.4**	**460 ± 60.4**
Lead 214		0.473	77.5	< 0.473 ± 9.61 UJ-	77.5 ± 13.1 J	< 10.9 ± 5.89 UJ-	25 ± 7.71 J
Bismuth 214		-2.06	66.8	< 0.928 ± 10.6 UJ-	66.8 ± 14.5 J	< 19.8 ± 11.9 UJ-	27 ± 9.02 J-
Thorium 232	0.14	0.00254	0.122	< 0.0211 ± 0.0257 U	< 0.00254 ± 0.0124 U	0.122 ± 0.0514 LT	NA
Radium 228	5	0.164	0.9	0.769 ± 0.349 LT	< 0.457 0.328 U	0.566 ± 0.245 LT	0.9 ± 0.299
Radium (R226+R228) (d)	5	0	1.63	1.092	NA	1.505	1.63
Actinium 228		7.39	23.1	< 16.4 ± 7.89 U	< 12 ± 11 U	< 17.9 ± 11.5 U	< 18 ± 9.67 U
Thorium 228	0.11	-0.0541	0.15	< 0.0355 ± 0.0851 U	< -0.00512 ± 0.0619 U	**< 0.15 ± 0.0789 U**	< 0.09 ± 0.0504 U
Lead 212		-5.11	12.3	< 6.31 ± 4.24 U	< -2.22 ± 7.6 U	< 12.3 ± 7.41 U	< 11 ± 6.71 U
Bismuth 212		-11.4	62	< 30.4 ± 41 U	< 24.8 ± 36.4 U	< 62 ± 37.8 U	< 52 ± 32.5 U
Thallium 208		0.0863	9.26	< 2.12 ± 2.93 U	< 0.556 ± 4.46 U	< 9.26 ± 5.62 U	5.4 ± 2.34 J
Potassium 40		-68.5	127	< -58.4 ± 98.5 U	< -13.3 ± 73.7 U	< 127 ± 76.4 U	< 110 ± 63.8 U
Uranium 235		0.203	0.388	0.257 ± 0.162	0.203 ± 0.135	0.327 ± 0.152	0.38 ± 0.146
Proactinium 234		0.56	809	< 96 ± 469 U	< 87.5 ± 512 U	< 809 ± 464 U	< 630 ± 397 U
Radium 224		-5.11	12.3	< 6.31 ± 4.24 U	< -2.22 ± 7.6 U	< 12.3 ± 7.41 U	< 11 ± 6.71 U
Thorium 227		-16.3	30.1	< -16.3 ± 14.3 U	< -3.14 ± 20.2 U	< 30.1 ± 17.8 U	< 17 ± 9.92 U
Thallium 234		-39.2	86.9	< 30.7 ± 74.4 U	< -12.7 ± 45.8 U	< 86.9 ± 52.3 U	< 72 ± 43.4 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2000	4600	**2200**	**2900**	**3500**	**4600**
TOTAL METALS (reported in ug/L)							
Aluminum	50	15	600	**< 500 U**	**< 76 U**	**< 150 UJ-**	< 15 U
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	150	220	**190**	**160**	**150**	**150**
Barium	2000	13	53	20 J	28 J	35 J-	53 J-

Table 16 Analytical Results for Well TIMETMW-3R, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Beryllium	4	0.18	10	2.4 J	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		140000	420000	170000	220000 J-	310000	420000 J
Chromium	100	5.9	32	17 J	19 J	5.9 J-	16
Chromium VI	100	19	40	26	23	19	19
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.81	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	500	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	120	330	**140 J+**	**170 J**	**170**	**330 J+**
Magnesium	207000	86000	270000	110000	150000 J-	**210000**	**270000 J**
Mercury	2	0.0029	0.2	< 0.2 U	< 0.0029 U	0.011 J+	< 0.0029 U
Molybdenum	183	32	92	63	50	32 J-	47
Nickel	730	0.93	100	< 100 U	< 4.7 U	< 9.3 U	< 0.93 U
Potassium		9300	26000	9300 J	12000	11000	26000 J+
Selenium	50	2.7	27	< 25 U	< 13 U	< 27 U	< 2.7 U
Silicon		32000	38000	35000	36000 J-	35000	33000
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		250000	490000	320000 J	400000 J-	450000 J+	490000 J-
Thallium	2	0.02	0.2	0.04 J	0.02 J	0.03 J+	0.04 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	16	21	18	17	16	18
Vanadium	183	20	32	26 J	23 J	26 J	20
Zinc	11000	0.73	100	< 100 U	< 3.6 U	< 7.2 U	1.9 J-
Zirconium	2.92	0.5	100	**6.7 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
1,1,2-Trichloroethane	5	0.28	1	< 1 U	< 0.3 U	< 0.28 U	< 0.3 U
1,1-Dichloroethane	2.42	0.22	1	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
1,1-Dichloroethene	7	0.2	1	< 1 U	< 0.3 U	< 0.2 U	< 0.3 U
1,2-Dichloroethane	5	0.43	0.58	0.58 J	0.49 J	0.52 J	0.51 J
1,2-Dichloropropane	5	23	31	**28**	**24**	**24**	**23**
1,3-Dichlorobenzene	86.7	0.23	1	< 1 U	< 0.3 U	< 0.23 U	< 0.3 U
2-Butanone	7060	3	10	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	2.8	10	< 10 U	< 6.4 U	< 2.8 U	< 3 U
Benzene	5	0.23	1	< 1 U	< 0.3 U	< 0.23 U	< 0.3 U
Bromodichloromethane	0.12	0.18	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.15	1	< 1 U	< 0.3 U	< 0.15 U	< 0.3 U
Carbon disulfide	1040	0.25	1	< 1 U	< 0.3 U	< 0.25 U	< 0.3 U
Carbon tetrachloride	5	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Chlorobenzene	100	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U

Table 16 Analytical Results for Well TIMETMW-3R, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Chloroform	0.19	0.71	1	**1**	**0.96 J**	**0.94 J**	**1**
Chloromethane	2.7	0.24	1	< 1 U	< 0.33 U	< 0.24 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Dibromochloromethane	0.15	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.22	1	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
Methylene chloride	5	0.25	1	< 1 U	< 0.32 U	< 0.25 U	< 0.3 U
Naphthalene	0.14	0.27	1	**< 1 U**	**< 0.42 U**	**< 0.27 U**	**< 0.3 U**
Styrene	100	0.28	1	< 1 U	< 0.3 U	< 0.28 U	< 0.3 U
Tetrachloroethene	5	0.18	1	< 1 U	< 0.19 U	< 0.18 U	< 0.18 U
Toluene	1000	0.22	1	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
Total Trihalomethanes (e)	80	0.73	1	1	NA	0.94	1
trans-1,2-Dichloroethene	100	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
Trichloroethene	5	17	24	**23**	**20**	**19**	**17**
Trichlorofluoromethane	1290	0.2	1	< 1 U	< 0.3 U	< 0.2 U	< 0.3 U
Vinyl chloride	2	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
Total Xylene	10000	2	10	< 2 U	< 2 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
\+ - Biased high
\- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 17 Analytical Results for Well TIMETMW-4, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		74	120	110	110 J	110	120
ANIONS (reported in mg/L)							
Chloride	4	170	2600	**180**	**170 J**	**170**	**190**
Nitrate	10	2	4.1	2.8	2.9 J	3	3.4
Perchlorate	0.018	0.13	0.27	**0.14**	**0.14 J**	**0.13**	**0.17**
Sulfate	250	1600	3300	**1700**	**1600 J**	**1700**	**1700**
GENERAL (reported in mg/L)							
Fluoride	4	0.84	0.84	NA	NA	NA	0.84
Nitrite	1	0.5	0.5	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Total Phosphorous		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	40.2 ± 8.83 M3	18.3 ± 5.58 M3	23.2 ± 6.2 M3	31 ± 9.22
Adjusted Gross Alpha (Total) (c)	15	-28.3	10.12	10.12	**-11.07**	**-13.48**	**-3.1**
Beta (Total)	50	-0.9	23.6	15 ± 5.4 M3	< 2.73 ± 6.27 U	23.6 ± 7.66 M3	< 22 ± 13.6 U
Uranium 238		8.76	14.7	12.3 ± 2.12	12.2 ± 2.15	14.7 ± 2.46 J+	14 ± 2.37
Uranium 234		12.3	21.3	17.3 ± 2.94	16.5 ± 2.86	21.3 ± 3.5	19 ± 3.3
Thorium 230	0.042	-0.0589	0.175	< 0.0416 ± 0.0566 U	< -0.0288 ± 0.0562 U	**< 0.175 ± 0.0942 U**	**< 0.079 ± 0.0479 U**
Radium 226	5	0.0266	0.831	< 0.284 ± 0.288 U	0.352 ± 0.246 J	0.404 ± 0.236 LT	0.52 ± 0.294
Radon 222	300	256	1400	**1400 ± 167**	**1280 ± 152**	**1210 ± 147**	**1200 ± 145**
Lead 214		-2.34	59.5	< 11.9 ± 11.7 UJ-	< 16.3 ± 10.3 UJ-	< 17.7 ± 10.7 UJ-	41 ± 12.2 J
Bismuth 214		-26.4	66.4	< 6.85 ± 11.8 UJ-	< 18.2 ± 12 UJ-	< 23.2 ± 11.3 UJ-	42 ± 14.9 J-
Thorium 232	0.14	-0.00687	0.0363	< 0.00965 ± 0.0127 U	< -0.00687 ± 0.0195 U	< 0.0335 ± 0.0224 U	NA
Radium 228	5	-0.0637	0.87	0.807 ± 0.361 LT	< 0.247 ± 0.304 U	< 0.412 ± 0.224 U	0.47 ± 0.236
Radium (R226+R228) (d)	5	0	1.57	0.807	0.352	0.404	0.99
Actinium 228		-1.28	34	< 12.8 ± 9.29 U	< 14.1 ± 10.7 U	< 16.1 ± 8.8 U	< 34 ± 20.2 U
Thorium 228	0.11	-0.0727	0.189	< -0.0445 ± 0.06 U	< -0.0727 ± 0.083 U	**< 0.188 ± 0.104 U**	< 0.087 ± 0.0486 U
Lead 212		-1.06	11	< 4.46 ± 8.13 U	< 5.61 ± 7.54 U	< 9.81 ± 5.93 U	< 11 ± 6.74 U
Bismuth 212		12.9	80	< 12.9 ± 40.5 U	< 24.3 ± 39.8 U	< 56.4 ± 35.6 U	< 80 ± 47.5 U
Thallium 208		-0.832	8.85	< 0.246 ± 6.35 U	< 0.388 ± 5.75 U	< 8.85 ± 5.27 U	< 5.6 ± 3.45 U
Potassium 40		-39.4	160	< -29.2 ± 74.7 U	< -35.3 ± 72.5 U	< 120 ± 70.6 U	< 160 ± 92.5 U
Uranium 235		0.394	1.1	0.481 ± 0.172	0.673 ± 0.22	0.676 ± 0.226	1.1 ± 0.295
Proactinium 234		0	910	< 102 ± 446 U	< 265 ± 462 U	< 665 ± 412 U	< 910 ± 557 U
Radium 224		-1.06	11	< 4.46 ± 8.13 U	< 5.61 ± 7.54 U	< 9.81 ± 5.93 U	< 11 ± 6.74 U
Thorium 227		-13	37	< -2.44 ± 19 U	< -12.6 ± 18.8 U	< 19.7 ± 11.8 U	< 37 ± 22.1 U
Thallium 234		-34	140	< 37.3 ± 86.7 U	< 10.6 ± 74 U	< 124 ± 75 U	< 140 ± 81.8 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2830	5690	**3100**	**3100**	**3200**	**3100**
TOTAL METALS (reported in ug/L)							
Aluminum	50	4.2	500	**< 500 U**	**91 J**	**< 150 UJ-**	**93 J+**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U

Table 17 Analytical Results for Well TIMETMW-4, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	20	180	**120**	**180**	**120**	**130**
Barium	2000	1.6	293	6.8 J	9.9 J	< 1.9 U	8.7 J-
Beryllium	4	0.081	10	**< 10 U**	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	0.43 J-
Calcium		50000	500000	310000	430000 J-	310000	330000
Chromium	100	2.6	117	7.5 J	18 J	< 5.1 U	13
Chromium VI	100	11	29	11	12	16	12
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	25500	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1	23.7	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	90	180	**120 J+**	**180 J**	**90 J-**	**170 J+**
Magnesium	207000	26100	310000	150000	140000 J-	150000	140000
Mercury	2	0.0029	0.23	0.0069 J	< 0.0029 U	0.011 J+	< 0.0029 U
Molybdenum	183	11	66	27 J	42 J	< 11 U	38
Nickel	730	0.9	100	< 100 U	< 4.7 U	< 9.3 U	1.8 J-
Potassium		4900	19000	7500	9500 J	4900 J-	13000 J+
Selenium	50	2.7	27	< 25 U	< 13 U	< 27 U	< 2.7 U
Silicon		35000	52000	40000	52000 J-	42000	40000
Silver	100	0.57	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		5000	728000	300000	490000 J-	310000 J+	300000 J-
Thallium	2	0.016	42	0.03 J	< 0.016 U	< 0.016 U	0.02 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	5	42	**34**	24	**38**	**41**
Vanadium	183	8.4	101	51	61	48 J	50
Zinc	11000	1.2	100	< 100 U	7.3 J	11 J-	2.5 J-
Zirconium	2.92	0.5	100	**4.8 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.24	5	0.42 J	0.33 J	0.31 J	< 0.3 U
1,1-Dichloroethene	7	1	13	3.1	2.5	2.6	2.6
1,2-Dichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	40	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	40	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	40	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.14	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.25	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	5	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U

Table 17 Analytical Results for Well TIMETMW-4, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.14	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	1.1	15	**2.2**	**2**	**1.9**	**1.8**
Chloromethane	2.7	0.3	10	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	8.7	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	4	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	20	88	**46**	**39**	**45**	**37**
Toluene	1000	0.27	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	0	16	2.2	2	1.9	1.8
trans-1,2-Dichloroethene	100	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	5	0.34 J	< 0.3 U	0.31 J	< 0.3 U
Trichlorofluoromethane	1290	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	10	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 18 Analytical Results for Well TIMETMW-5, Plant
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		76	200	110	100 J	100	110
ANIONS (reported in mg/L)							
Chloride	4	442	1110	**580**	**540 J**	**490**	**540**
Nitrate	10	6	35.2	7.8	8.6 J	8.1	8.9
Perchlorate	0.018	0.38	0.63	**0.45**	**0.53 J**	**0.45**	**0.46**
Sulfate	250	1680	3860	**1700**	**1800 J**	**2000**	**1700**
GENERAL (reported in mg/L)							
Fluoride	4	2.6	2.6	NA	NA	NA	2.6
Nitrite	1	0.5	1	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Total Phosphorous		0.05	0.064	0.057	< 0.05 U	< 0.05 U	< 0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		8	39	8.82 ± 5.79 M3	15.7 ± 7.67 M3	16.5 ± 6.35 M3	16 ± 9.61
Adjusted Gross Alpha (Total) (c)	15	-15.57	26.8	**-12.84**	**-5.15**	**-8.7**	**-3.98**
Beta (Total)	50	-2.01	62	12.5 ± 6.6 M3	< -2.01 ± 11.8 U	18 ± 6.93 M3	**62 ± 16.1 J+**
Uranium 238		4.75	10.7	8.69 ± 1.63	8.71 ± 1.59	10.7 ± 1.85 J+	8.6 ± 1.54
Uranium 234		5.9	14.3	12.5 ± 2.27	11.6 ± 2.07	14 ± 2.37 M3	11 ± 1.93
Thorium 230	0.042	-0.0747	0.45	< 0.0144 ± 0.0579 U	< -0.0331 ± 0.0434 U	**< 0.109 ± 0.0504 U**	**< 0.087 ± 0.046 U**
Radium 226	5	-0.89	4.79	< 0.208 ± 0.298 U	1.15 ± 0.462	4.79 ± 1.38	1.7 ± 0.608
Radon 222	300	717	1940	**1670 ± 197**	**1300 ± 154**	**1940 ± 229 J-**	**1600 ± 190**
Lead 214		-3.61	46	< 14.7 ± 9.89 UJ-	26.1 ± 8.74 J-	< 19.5 ± 11.6 UJ-	46 ± 10.7 J
Bismuth 214		-18.7	45	< 8.67 ± 11.6 UJ-	30 ± 9.23 J-	< 27.2 ± 12.8 UJ-	45 ± 12.1 J-
Thorium 232	0.14	-0.0106	0.03	< -0.000543 ± 0.0145 U	< 0.0116 ± 0.0124 U	< 0.0237 ± 0.0152 U	NA
Radium 228	5	0.344	2.1	0.594 ± 0.303 LT	0.666 ± 0.38 J	< 0.42 ± 0.225 U	0.75 ± 0.278
Radium (R226+R228) (d)	5	0.431	4.79	0.594	1.816	4.79	2.45
Actinium 228		-2.96	22.4	< 7.47 ± 17.4 U	< 13.5 ± 20.8 U	< 17.7 ± 11.3 U	< 17 ± 10.9 U
Thorium 228	0.11	-0.0435	0.23	< 0.0261 ± 0.0669 U	< 0.0327 ± 0.0501 U	**< 0.115 ± 0.0623 U**	< 0.098 ± 0.0557 U
Lead 212		-0.0453	16.7	< 3.61 ± 7.5 U	< 0.547 ± 6.08 U	< 13.8 ± 8.31 U	< 12 ± 7.48 U
Bismuth 212		5.06	69.4	< 5.06 ± 33.4 U	< 38.8 ± 33.2 U	< 67.5 ± 40.3 U	< 64 ± 40.2 U
Thallium 208		-1.05	10	< 1.75 ± 5.17 U	< -0.0658 ± 4.74 U	< 4.74 ± 2.99 U	< 10 ± 6.2 U
Potassium 40		-51.6	170	< -27.9 ± 69.9 U	< -18 ± 66.4 U	< 162 ± 96.3 U	< 130 ± 77.4 U
Uranium 235		0.13	0.641	0.465 ± 0.2	0.537 ± 0.199	0.501 ± 0.208	0.38 ± 0.158
Proactinium 234		-155	804	< -140 ± 724 U	< 346 ± 394 U	< 804 ± 466 U	< 780 ± 469 U
Radium 224		-0.0453	16.7	< 3.61 ± 7.5 U	< 0.547 ± 6.08 U	< 13.8 ± 8.31 U	< 12 ± 7.48 U
Thorium 227		-12.2	26	< -12.2 ± 12.9 U	< -1.83 ± 10.2 U	< 23.2 ± 13.9 U	< 26 ± 15.9 U
Thallium 234		-79	242	< -79 ± 112 U	< 14.1 ± 40.9 U	71.6 ± 41.6 J	< 72 ± 44 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3130	4800	**3600**	**4000 J**	**4000**	**3900**
TOTAL METALS (reported in ug/L)							
Aluminum	50	14	500	**< 500 U**	**< 76 U**	**< 150 UJ-**	< 15 U
Antimony	6	2.3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U

Table 18 Analytical Results for Well TIMETMW-5, Plant
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	120	196	**180**	**130**	**170**	**180**
Barium	2000	4.7	84.9	7.2 J	5.9 J	4.7 J-	12 J-
Beryllium	4	0.081	10	3 J	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	0.53 J-
Calcium		300000	618000	370000	300000 J-	460000	450000
Chromium	100	5.1	36.9	16 J	9.4 J	< 5.1 U	15
Chromium VI	100	14	29	25	22	20	14
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.2	5900	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	120	240	**160 J+**	**120 J**	**140**	**230 J+**
Magnesium	207000	120000	190000	130000	140000 J-	140000	130000
Mercury	2	0.0099	0.2	0.012 J	0.011 J	0.022 J+	0.0099 J-
Molybdenum	183	33	58	58	33 J	35 J-	52
Nickel	730	1.2	100	< 100 U	< 4.7 U	< 9.3 U	1.6 J-
Potassium		5900	18000	9200 J	7800 J	5900 J-	15000 J+
Selenium	50	4.6	27	< 25 U	< 13 U	< 27 U	4.8 J-
Silicon		42000	55000	51000	42000 J-	53000	50000
Silver	100	0.63	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		5000	661000	480000 J	330000 J-	460000 J+	430000 J-
Thallium	2	0.016	200	0.02 J	< 0.016 U	< 0.016 U	0.02 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	12	98.5	28	**39**	23	24
Vanadium	183	49	83	62	51	62 J	63
Zinc	11000	0.72	100	< 100 U	< 3.6 U	7.9 J-	< 0.72 U
Zirconium	2.92	0.5	1000	**3.1 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	20	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	20	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	20	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.15	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	5	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U

Table 18 Analytical Results for Well TIMETMW-5, Plant
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	18	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.3	5	1.3	0.59 J	0.39 J	0.58 J
Chlorobenzene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	1	8.8	**1.8**	**1.6**	**1.4**	**1.5**
Chloromethane	2.7	0.3	10	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	10	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	1	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	0.52	5	1.1	0.71 J	0.76 J	0.64 J
Toluene	1000	0.27	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	0	8.8	1.8	1.6	1.4	1.5
trans-1,2-Dichloroethene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.17	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	10	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 19 Analytical Results for Well TIMETMW-6R, Plant
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		12	150	140	140	140	150 J
ANIONS (reported in mg/L)							
Chloride	4	346	3400	**540**	**450**	**550**	**570 J**
Nitrate	10	1.8	10.9	4.1	3.9	1.8	5.4 J
Perchlorate	0.018	0.76	1.8	**1.5**	**1.5**	**1.6**	**1.4 J**
Sulfate	250	1200	2030	**1200**	**1200**	**1200**	**1200 J**
GENERAL (reported in mg/L)							
Fluoride	4	0.88	0.88	NA	NA	NA	0.88 J-
Nitrite	1	0.5	0.5	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Total Phosphorous		0.05	0.11	< 0.05 U	< 0.05 U	< 0.05 U	0.11 J+
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		19.4	131	31.2 ± 6.77 M3	40.3 ± 10.8 M3	26.6 ± 6.71 M3	45 ± 11.6
Adjusted Gross Alpha (Total) (c)	15	-83	48.68	**-9.19**	2.48	**-12.01**	5.12
Beta (Total)	50	-13	93	22.2 ± 5.75 M3	**93 ± 20.2 M3**	24.9 ± 6.68 M3	40 ± 13.9 J+
Uranium 238		13.2	32.6	16.1 ± 2.72	15.1 ± 2.7	15.3 ± 2.68	16 ± 2.76
Uranium 234		16.9	50	23.4 ± 3.91	22 ± 3.85	22.5 ± 3.87	23 ± 3.86
Thorium 230	0.042	-0.0577	0.134	< -0.0422 ± 0.0474 U	< 0.0233 ± 0.0603 U	**< 0.134 ± 0.068 U**	**< 0.1 ± 0.0548 U**
Radium 226	5	-0.119	1.1	< 0.0301 ± 0.181 U	0.28 ± 0.209 J	< 0.15 ± 0.0932 U	< 0.26 ± 0.14 U
Radon 222	300	262	971	**971 ± 118**	**962 ± 116**	**771 ± 96.7**	**530 ± 65.6**
Lead 214		0.588	156	< 1.91 ± 10.1 UJ-	156 ± 20.7 J-	< 16.7 ± 10.2 UJ-	9.8 ± 5.3 J-
Bismuth 214		-2.26	145	< 9.14 ± 9.14 UJ-	145 ± 22.2 J-	< 20.4 ± 10 UJ-	< 19 ± 9.35 UJ-
Thorium 232	0.14	-0.00292	0.0407	< -0.00245 ± 0.0119 U	0.0407 ± 0.03 J	< 0.0276 ± 0.0197 U	NA
Radium 228	5	-0.22	17.2	< 0.518 ± 0.311 U	< 0.0641 ± 0.272 U	< 0.551 ± 0.276 U	< 0.46 ± 0.235 U
Radium (R226+R228) (d)	5	0	1.1	**< 0**	0.28	**< 0**	**< 0**
Actinium 228		0.772	34	< 7.83 ± 21.3 U	< 15 ± 10.9 U	17 ± 9.86 J	< 34 ± 20 U
Thorium 228	0.11	-0.073	0.12	< 0.0359 ± 0.0554 U	< 0.00547 ± 0.0534 U	< 0.0889 ± 0.0478 U	**< 0.12 ± 0.0698 U**
Lead 212		-4.53	15	< 0.0264 ± 6.34 U	< -1.03 ± 7.08 U	< 13.3 ± 8.01 U	< 15 ± 9.14 U
Bismuth 212		-7.6	58	< 9.43 ± 35.5 U	< 49.5 ± 38.7 U	< 57.9 ± 34.4 U	< 58 ± 35.4 U
Thallium 208		-1.41	11.6	< -0.789 ± 5.49 U	< 2.71 ± 3.02 U	< 11.6 ± 6.97 U	< 9.5 ± 5.73 U
Potassium 40		-91.9	115	< -53 ± 68 U	< 13.7 ± 73.1 U	< 115 ± 69.4 U	< 110 ± 67.6 U
Uranium 235		0.58	1.62	0.894 ± 0.251	0.721 ± 0.25	0.811 ± 0.255	0.88 ± 0.254
Proactinium 234		21.6	737	< 383 ± 411 U	< 350 ± 519 U	< 737 ± 451 U	< 620 ± 379 U
Radium 224		-4.53	15	< 0.0264 ± 6.34 U	< -1.03 ± 7.08 U	< 13.3 ± 8.01 U	< 15 ± 9.14 U
Thorium 227		-20.3	30.3	< 2.1 ± 10.3 U	< 6.81 ± 21.9 U	< 30.3 ± 18.2 U	< 30 ± 17.9 U
Thallium 234		-37	199	< 35.7 ± 37.3 U	< -37 ± 46.3 U	< 199 ± 120 U	< 190 ± 117 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2900	8080	**3000**	**2900**	**3000**	**3000**
TOTAL METALS (reported in ug/L)							
Aluminum	50	16	500	**95 J**	**81 J**	**< 150 UJ-**	31 J+
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U

Table 19 Analytical Results for Well TIMETMW-6R, Plant
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	72.5	150	**140**	**140**	**130**	**140**
Barium	2000	2.3	41.8	14 J	7.8 J	2.3 J-	13 J-
Beryllium	4	0.08	10	**< 10 U**	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	1.1 J+
Calcium		170000	792000	190000	170000	190000	190000 J
Chromium	100	23	105	83	84	66 J-	78 J-
Chromium VI	100	72	110	**110**	99	88	79
Cobalt	11	0.67	50	**< 50 U**	< 2.2 U	< 4.5 U	2.3 J
Copper	1300	0.73	100	10 J	32 J	63 J+	100
Iron	300	4.4	1360	180 J	< 25 U	< 49 U	< 4.9 U
Lead	15	1.7	17	< 15 U	< 6.4 U	< 13 U	**17**
Lithium	73	230	360	**260 J+**	**250**	**230**	**350 J+**
Magnesium	207000	120000	506000	130000	120000	140000	130000 J
Mercury	2	0.0029	0.2	0.0065 J	< 0.0029 U	< 0.003 U	0.011 J+
Molybdenum	183	11	39	27 J	23 J	< 11 U	29
Nickel	730	1.9	78	37 J	42 J	48 J-	78
Potassium		9800	22000	13000	13000	9800 J-	22000 J+
Selenium	50	3.3	27	< 25 U	< 13 U	< 27 U	5.7
Silicon		32000	39000	37000	38000	38000	39000
Silver	100	0.83	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		5000	1150000	430000	450000	460000 J+	420000 J
Thallium	2	0.032	39	0.15 J	0.06 J	0.06 J+	0.1 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	43	130	**46**	**43**	**45**	**48**
Vanadium	183	27	56	42 J	42 J	32 J	42 J-
Zinc	11000	1.5	100	10 J	< 3.6 U	60 J-	4.5 J-
Zirconium	2.92	0.5	100	**14 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.27	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	20	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	20	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	2.7	20	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	5	< 1 U	< 0.3 U	0.39 J	0.66 J

Table 19 Analytical Results for Well TIMETMW-6R, Plant
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.24	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	7.4	79	**11**	**9.9**	**8.4**	**7.4**
Chloromethane	2.7	0.3	10	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	8.2	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	1	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	0.18	5	0.35 J	0.26 J	0.3 J	< 0.18 U
Toluene	1000	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	8.06	79	11	9.9	8.79	8.06
trans-1,2-Dichloroethene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	10	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 20 Analytical Results for Well TMPZ-105, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		150	180	NA	150	150 J	150 J
ANIONS (reported in mg/L)							
Chloride	4	2100	2400	**2200**	**2100**	**2200 J**	**2300 J**
Nitrate	10	26	30	NA	**27**	**26 J**	**30 J**
Perchlorate	0.018	33	40	**39**	**38**	**40 J**	**40 J**
Sulfate	250	2000	2300	NA	**2000**	**2300 J**	**2200 J**
GENERAL (reported in mg/L)							
Fluoride	4	5.1	5.1	NA	NA	NA	**5.1 J**
Nitrite	1	1	1	NA	< 1 U	< 1 U	< 1 U
Total Phosphorous		0.05	0.11	NA	< 0.05 U	0.06	0.11 J+
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		15.1	45.2	NA	15.1 ± 9 M3	25.9 ± 11.1 M3	33 ± 11.3
Adjusted Gross Alpha (Total) (c)	15	-20.18	-0.42	NA	**-20.18**	**-9.32**	**-3.74**
Beta (Total)	50	5.5	39	NA	< 5.5 ± 13.7 U	< 21.5 ± 13.5 U	39 ± 13.9
Uranium 238		14	19.8	NA	14 ± 2.47	14.1 ± 2.38	15 ± 2.55
Uranium 234		20.3	27.8	NA	20.7 ± 3.59	20.3 ± 3.38	21 ± 3.56
Thorium 230	0.042	-0.0412	0.13	NA	< -0.00846 ± 0.0618 U	**< 0.099 ± 0.0559 U**	**< 0.13 ± 0.0675 U**
Radium 226	5	1.25	2.47	NA	1.44 ± 0.596	1.25 ± 0.432	2.2 ± 0.728
Radon 222	300	434	1460	NA	**537 ± 69.7**	**434 ± 58 J**	**1300 ± 152**
Lead 214		-2.81	56.1	NA	24 ± 9.98 J-	< 19.7 ± 12.1 UJ-	< 22 ± 13.3 UJ-
Bismuth 214		10.1	59.6	NA	30.3 ± 10.4 J-	< 25.7 ± 13.5 UJ-	13 ± 7.34 J-
Thorium 232	0.14	-0.0131	0.0415	NA	< -0.0131 ± 0.0217 U	< 0.0407 ± 0.0191 U	NA
Radium 228	5	0.452	0.94	NA	< 0.452 ± 0.288 U	0.505 ± 0.242 LT	0.94 ± 0.361
Radium (R226+R228) (d)	5	1.44	3.223	NA	1.44	1.755	3.14
Actinium 228		-18.9	23.7	NA	23.7 ± 9.59 J	< 19.7 ± 12.1 U	< 15 ± 9.73 U
Thorium 228	0.11	-0.0267	0.19	NA	< 0.0155 ± 0.0952 U	**< 0.115 ± 0.068 U**	**< 0.19 ± 0.106 U**
Lead 212		-4.01	14	NA	< -0.543 ± 7.76 U	< 14 ± 8.39 U	< 13 ± 7.87 U
Bismuth 212		-43.6	82	NA	< 23.6 ± 40.9 U	< 74.3 ± 44.5 U	< 82 ± 48.6 U
Thallium 208		-0.53	11.2	NA	< 3.86 ± 5.52 U	< 11.2 ± 6.7 U	6.5 ± 3.49 J
Potassium 40		-36	156	NA	< -36 ± 79.8 U	< 156 ± 93.8 U	< 150 ± 88 U
Uranium 235		0.579	1.04	NA	0.579 ± 0.208	0.821 ± 0.227	0.74 ± 0.227
Proactinium 234		-183	1870	NA	< -183 ± 461 U	< 1870 ± 1110 U	< 1700 ± 998 U
Radium 224		-4.01	14	NA	< -0.543 ± 7.76 U	< 14 ± 8.39 U	< 13 ± 7.87 U
Thorium 227		-2.6	38	NA	< 11.8 ± 20.1 U	< 38 ± 22.7 U	< 37 ± 22 U
Thallium 234		4.23	140	NA	< 9.48 ± 83.1 U	< 136 ± 83.3 U	< 140 ± 86.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	6900	7900	**7700**	**7900**	**7400**	**7600**
TOTAL METALS (reported in ug/L)							
Aluminum	50	15	620	NA	**310 J**	**< 150 U**	< 15 U
Antimony	6	3	200	NA	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	210	300	NA	**230**	**210**	**230**
Barium	2000	9.6	22	NA	16 J	9.6 J-	20 J-
Beryllium	4	0.18	10	NA	< 0.88 U	< 1.8 U	< 0.18 U

Table 20 Analytical Results for Well TMPZ-105, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Cadmium	5	0.33	50	NA	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		280000	330000	NA	320000	280000 J	290000 J
Chromium	100	760	840	NA	**810**	**800**	**760 J-**
Chromium VI	100	880	1000	**940**	**960**	**950**	**880**
Cobalt	11	0.45	100	NA	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	100	NA	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	25	1000	NA	< 25 U	< 49 U	31 J+
Lead	15	1.3	30	NA	7 J	< 13 U	< 1.3 U
Lithium	73	300	530	NA	**420 J**	**300**	**510 J+**
Magnesium	207000	140000	170000	NA	160000	140000 J	140000 J
Mercury	2	0.0029	0.2	NA	< 0.0029 U	< 0.003 U	< 0.0029 U
Molybdenum	183	130	170	NA	160	130	160
Nickel	730	4.7	200	NA	< 4.7 U	< 9.3 U	5 J-
Potassium		23000	50000	NA	35000 J	23000 J	50000 J+
Selenium	50	5.9	50	NA	< 13 U	< 27 U	6.2
Silicon		42000	49000	NA	43000	43000	45000
Silver	100	1.1	100	NA	< 5.4 U	< 11 U	< 1.1 U
Sodium		1400000	1700000	NA	1700000	1400000 J	1700000 J
Thallium	2	0.07	0.1	NA	0.09 J	0.07 J+	0.07 J+
Tin	21900	2.8	500	NA	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	200	NA	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	42	61	**46 J**	**45**	**42**	**46**
Vanadium	183	91	120	NA	95	91 J-	96
Zinc	11000	0.78	200	NA	< 3.6 U	< 7.2 U	0.78 J-
Zirconium	2.92	0.5	200	NA	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	5	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.17	5	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	5	NA	< 0.3 U	0.51 J	0.35 J
1,2-Dichloroethane	5	0.17	5	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	5	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	2.8	NA	0.37 J	< 0.3 U	< 0.3 U
2-Butanone	7060	3	50	NA	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	50	NA	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	50	NA	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	5	NA	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	1.1	NA	**0.34 J**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	5	NA	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	5	NA	< 0.3 U	< 0.3 UJ	< 0.3 U
Carbon disulfide	1040	0.3	5	NA	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	2.9	8.1	NA	2.9	4.9	4.2
Chlorobenzene	100	0.3	5	NA	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	450	660	**630**	**450**	**490**	**470**
Chloromethane	2.7	0.3	5	NA	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	5	NA	< 0.3 U	< 0.3 U	< 0.3 U

Table 20 Analytical Results for Well TMPZ-105, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Dibromochloromethane	0.15	0.26	5	NA	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	5	NA	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	1.2	NA	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	5	NA	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	2.4	50	5	2.4	3.5	3.8
Toluene	1000	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	450.3	661.7	**630**	**450.3**	**490**	**470**
trans-1,2-Dichloroethene	100	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.23	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	100	NA	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
\+ - Biased high
\- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 21 Analytical Results for Well TMPZ-106, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		190	310	NA	NA	310 J	NA
ANIONS (reported in mg/L)							
Chloride	4	1700	4500	**2200**	**1900**	**1700 J**	**4500**
Nitrate	10	21	32	NA	NA	**21 J**	NA
Perchlorate	0.018	1.7	3.6	**2.1**	**1.7**	**3.6 J**	**2.3**
Sulfate	250	870	1400	NA	NA	**870 J**	NA
GENERAL (reported in mg/L)							
Nitrite	1	1	1	NA	NA	< 1 U	NA
Total Phosphorous		0.09	0.14	NA	NA	0.09	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		19.3	21.9	NA	NA	19.3 ± 8.46 J-	NA
Adjusted Gross Alpha (Total) (c)	15	-8.83	-0.05	NA	NA	**-8.83**	NA
Beta (Total)	50	18.4	20	NA	NA	< 20 ± 12.5 UJ-	NA
Uranium 238		9.28	11.3	NA	NA	11.3 ± 1.9	NA
Uranium 234		12.2	16.1	NA	NA	16.1 ± 2.68	NA
Thorium 230	0.042	-0.00369	0.098	NA	NA	**< 0.098 ± 0.0616 U**	NA
Radium 226	5	0.348	0.66	NA	NA	0.348 ± 0.224 LT	NA
Radon 222	300	1150	1400	NA	NA	**1400 ± 167**	NA
Lead 214		15.9	37	NA	NA	< 15.9 ± 9.53 UJ-	NA
Bismuth 214		19.5	44.1	NA	NA	< 19.5 ± 8.93 UJ-	NA
Thorium 232	0.14	0.00413	0.0367	NA	NA	< 0.0367 ± 0.0218 U	NA
Radium 228	5	0.396	0.398	NA	NA	< 0.396 ± 0.203 U	NA
Radium (R226+R228) (d)	5	0.348	0.66	NA	NA	0.348	NA
Actinium 228		13.8	17.7	NA	NA	< 13.8 ± 8.69 U	NA
Thorium 228	0.11	0.0669	0.119	NA	NA	**< 0.119 ± 0.0653 U**	NA
Lead 212		4.62	10.9	NA	NA	< 10.9 ± 6.54 U	NA
Bismuth 212		52.6	54	NA	NA	< 52.6 ± 33 U	NA
Thallium 208		1.6	8.57	NA	NA	< 8.57 ± 5.04 U	NA
Thallium 208		1.6	8.57	NA	NA	< 107 ± 64 U	NA
Uranium 235		0.468	0.731	NA	NA	0.731 ± 0.205	NA
Proactinium 234		-208	495	NA	NA	< 495 ± 304 U	NA
Radium 224		4.62	10.9	NA	NA	< 10.9 ± 6.54 U	NA
Thorium 227		-7.31	16.6	NA	NA	< 16.6 ± 9.72 U	NA
Thallium 234		-58.1	72.8	NA	NA	< 72.8 ± 43.9 U	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4700	9100	**5700**	**5500**	**4700**	**9100**
TOTAL METALS (reported in ug/L)							
Aluminum	50	41	150	NA	NA	**< 150 UJ-**	NA
Antimony	6	20	30	NA	NA	**< 30 U**	NA

Table 21 Analytical Results for Well TMPZ-106, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	200	230	NA	NA	**230**	NA
Barium	2000	12	31	NA	NA	12 J-	NA
Beryllium	4	0.18	1.8	NA	NA	< 1.8 U	NA
Cadmium	5	3.3	5	NA	NA	< 3.3 U	NA
Calcium		110000	290000	NA	NA	110000 J	NA
Chromium	100	370	440	NA	NA	**440**	NA
Chromium VI	100	280	490	**310**	**280**	**490**	**340 J-**
Cobalt	11	4.5	4.5	NA	NA	< 4.5 U	NA
Copper	1300	9.7	10	NA	NA	< 9.7 U	NA
Iron	300	11	49	NA	NA	< 49 U	NA
Lead	15	3	13	NA	NA	< 13 U	NA
Lithium	73	170	480	NA	NA	**170**	NA
Magnesium	207000	75000	160000	NA	NA	75000 J	NA
Mercury	2	0.003	0.015	NA	NA	< 0.003 U	NA
Molybdenum	183	110	170	NA	NA	110	NA
Nickel	730	6.4	9.3	NA	NA	< 9.3 U	NA
Potassium		4900	24000	NA	NA	4900 J-	NA
Selenium	50	6.8	27	NA	NA	< 27 U	NA
Silicon		43000	50000	NA	NA	50000	NA
Silver	100	10	11	NA	NA	< 11 U	NA
Sodium		1200000	2100000	NA	NA	1200000 J+	NA
Thallium	2	0.02	0.12	NA	NA	0.02 J+	NA
Tin	21900	3.6	28	NA	NA	< 28 U	NA
Titanium	146000	2.7	20	NA	NA	< 2.7 U	NA
Uranium	30	22	35	24 J	22	**34**	**35**
Vanadium	183	140	220	NA	NA	**220**	NA
Zinc	11000	7.2	21	NA	NA	< 7.2 U	NA
Zirconium	2.92	5	20	NA	NA	**< 5 U**	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	NA	NA	< 0.3 U	NA
1,1,2-Trichloroethane	5	0.3	5	NA	NA	< 0.3 U	NA
1,1-Dichloroethane	2.42	0.3	5	NA	NA	< 0.3 U	NA
1,1-Dichloroethene	7	0.3	5	NA	NA	< 0.3 U	NA
1,2-Dichloroethane	5	0.3	5	NA	NA	< 0.3 U	NA
1,2-Dichloropropane	5	0.3	5	NA	NA	< 0.3 U	NA
1,3-Dichlorobenzene	86.7	0.3	5	NA	NA	< 0.3 U	NA
2-Butanone	7060	3	50	NA	NA	< 3 UJ	NA
4-Methyl-2-pentanone	1990	3.4	50	NA	NA	< 3.4 UJ	NA
Acetone	21800	3	50	NA	NA	< 3 U	NA
Benzene	5	0.3	5	NA	NA	< 0.3 U	NA
Bromodichloromethane	0.12	0.3	2.3	NA	NA	**< 0.3 U**	NA
Bromoform	8.51	0.34	5	NA	NA	< 0.34 U	NA

Table 21 Analytical Results for Well TMPZ-106, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	5	NA	NA	< 0.3 UJ	NA
Carbon disulfide	1040	0.3	5	NA	NA	< 0.3 U	NA
Carbon tetrachloride	5	2.6	12	NA	NA	2.6	NA
Chlorobenzene	100	0.3	5	NA	NA	< 0.3 U	NA
Chloroform	0.19	330	890	**520**	**460**	**330**	**710**
Chloromethane	2.7	0.3	5	NA	NA	< 0.3 U	NA
cis-1,2-Dichloroethene	70	0.3	5	NA	NA	< 0.3 U	NA
Dibromochloromethane	0.15	0.3	5	NA	NA	**< 0.3 U**	NA
Ethylbenzene	700	0.3	5	NA	NA	< 0.3 U	NA
Methylene chloride	5	0.3	1.3	NA	NA	< 0.3 U	NA
Naphthalene	0.14	0.3	5	NA	NA	**< 0.3 U**	NA
Styrene	100	0.3	5	NA	NA	< 0.3 U	NA
Tetrachloroethene	5	0.81	7.1	1.2 J	0.81 J	1.6	1.5
Toluene	1000	0.3	5	NA	NA	< 0.3 U	NA
Total Trihalomethanes (e)	80	330	892.3	**520**	**460**	**330**	**710**
trans-1,2-Dichloroethene	100	0.3	5	NA	NA	< 0.3 U	NA
Trichloroethene	5	0.17	5	NA	NA	< 0.3 U	NA
Trichlorofluoromethane	1290	0.3	5	NA	NA	< 0.3 U	NA
Vinyl chloride	2	0.3	5	NA	NA	< 0.3 U	NA
Total Xylene	10000	2	10	NA	NA	< 2 U	NA

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
\+ - Biased high
\- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 22 Analytical Results for Well TMPZ-107, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		180	210	NA	200	200 J	180 J
ANIONS (reported in mg/L)							
Chloride	4	6700	9500	**6700**	**7000**	**7300 J**	**9500 J**
Nitrate	10	67	83	NA	**67**	**67 J**	**72 J**
Perchlorate	0.018	2.6	3.6	**2.8**	**3.3**	**2.8 J**	**2.6 J**
Sulfate	250	2000	2500	NA	**2000**	**2000 J**	**2000 J**
GENERAL (reported in mg/L)							
Fluoride	4	5.3	5.3	NA	NA	NA	**5.3 J**
Nitrite	1	2	2	NA	**< 2 U**	**< 2 U**	**< 2 U**
Total Phosphorous		0.05	0.16	NA	< 0.05 U	0.058	0.14 J+
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		44.2	78	NA	55.1 ± 21 M3	44.2 ± 20.6 J-	61 ± 24.3
Adjusted Gross Alpha (Total) (c)	15	-27.81	-2.4	NA	**-21.74**	**-21.24**	**-2.4**
Beta (Total)	50	22.2	56.2	NA	**56.2 ± 30.9 M3**	< 40.3 ± 24.7 UJ-	< 42 ± 26.1 U
Uranium 238		25.8	42.2	NA	30.8 ± 7.13 M3	26.6 ± 4.37	26 ± 4.73
Uranium 234		35.4	57.7	NA	44.4 ± 9.48 M3	37.4 ± 6.11	36 ± 6.51
Thorium 230	0.042	-0.0431	0.119	NA	< -0.0216 ± 0.0571 U	**< 0.119 ± 0.0685 U**	**< 0.085 ± 0.0482 U**
Radium 226	5	1.01	2.06	NA	1.98 ± 0.685	1.01 ± 0.418	2 ± 0.683
Radon 222	300	2670	3390	NA	**3320 ± 384**	**3230 ± 373**	**3200 ± 366**
Lead 214		4.44	97.2	NA	35.8 ± 10.6 J-	26.5 ± 8.87 J-	< 17 ± 10.2 UJ-
Bismuth 214		6.51	93.2	NA	36.6 ± 12.5 J-	31.6 ± 11 J-	< 19 ± 11.3 UJ-
Thorium 232	0.14	0.0032	0.0719	NA	< 0.016 ± 0.0235 U	< 0.0719 ± 0.0355 U	NA
Radium 228	5	0.617	1.2	NA	1.04 ± 0.433	0.956 ± 0.313 LT	1.2 ± 0.374 J+
Radium (R226+R228) (d)	5	1.966	3.2	NA	3.02	1.966	3.2
Actinium 228		3.47	19	NA	< 11.1 ± 8.44 U	< 16.7 ± 9.35 U	16 ± 9.1 J
Thorium 228	0.11	-0.0251	0.14	NA	< -0.0251 ± 0.0669 U	**< 0.14 ± 0.0819 U**	< 0.059 ± 0.0381 U
Lead 212		-0.827	12	NA	< 4.68 ± 8.62 U	< 10.6 ± 6.38 U	< 12 ± 7.41 U
Bismuth 212		3.69	54.4	NA	< 26 ± 23.7 U	< 54.4 ± 32.4 U	< 49 ± 30.9 U
Thallium 208		-0.836	8.79	NA	< 1.54 ± 5.56 U	< 8.79 ± 5.29 U	< 7.6 ± 4.55 U
Potassium 40		-6.81	120	NA	< 11.3 ± 69.6 U	< 102 ± 60.5 U	< 120 ± 74.8 U
Uranium 235		1.4	2.51	NA	1.64 ± 1.27 M3	1.44 ± 0.332	1.4 ± 0.436
Proactinium 234		185	1300	NA	< 344 ± 362 U	< 656 ± 403 U	< 1300 ± 766 U
Radium 224		-0.827	12	NA	< 4.68 ± 8.62 U	< 10.6 ± 6.38 U	< 12 ± 7.41 U
Thorium 227		-15.4	23.2	NA	< -15.4 ± 18.6 U	< 23.2 ± 13.4 U	< 22 ± 12.8 U
Thallium 234		-58.8	230	NA	< -58.8 ± 126 U	< 67.2 ± 41 U	< 230 ± 138 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	15000	19000	**15000**	**16000**	**16000**	**16000 J**
TOTAL METALS (reported in ug/L)							
Aluminum	50	71	500	NA	**< 76 U**	**< 150 UJ-**	**140**
Antimony	6	3	100	NA	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	160	180	NA	**180**	**170**	**170**
Barium	2000	22	37	NA	27 J	22 J-	37 J-
Beryllium	4	0.18	10	NA	< 0.88 U	< 1.8 U	< 0.18 U

Table 22 Analytical Results for Well TMPZ-107, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Cadmium	5	0.47	25	NA	< 1.6 U	< 3.3 U	0.47 J+
Calcium		670000	1000000	NA	720000	670000 J	760000 J
Chromium	100	270	310	NA	**310**	**310**	**310 J-**
Chromium VI	100	320	400	**330**	**360**	**360**	**400**
Cobalt	11	2	50	NA	< 2.2 U	< 4.5 U	2 J
Copper	1300	0.97	50	NA	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	25	500	NA	< 25 U	< 49 U	77 J-
Lead	15	1.3	15	NA	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	480	790	NA	**630**	**480**	**740 J+**
Magnesium	207000	550000	740000	NA	**580000**	**550000 J**	**630000 J**
Mercury	2	0.003	0.2	NA	0.0068 J	< 0.003 U	0.015 J+
Molybdenum	183	290	360	NA	**360**	**350**	**300**
Nickel	730	2.2	100	NA	< 4.7 U	< 9.3 U	2.2 J-
Potassium		26000	58000	NA	39000	26000 J	57000 J+
Selenium	50	5.5	27	NA	< 13 U	< 27 U	11
Silicon		40000	47000	NA	47000	46000	47000
Silver	100	1.8	50	NA	< 5.4 U	< 11 U	1.8 J
Sodium		3000000	3700000	NA	3400000	3100000 J+	3700000 J
Thallium	2	0.08	0.16	NA	0.08 J	0.08 J+	0.09 J+
Tin	21900	2.8	250	NA	< 14 U	< 28 U	< 2.8 U
Titanium	146000	1.4	100	NA	< 1.4 U	< 2.7 U	16 J-
Uranium	30	75	150	**86 J**	**88**	**85**	**75**
Vanadium	183	56	69	NA	69	68 J	68 J-
Zinc	11000	1	100	NA	< 3.6 U	< 7.2 U	1 J-
Zirconium	2.92	0.5	20	NA	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.26	50	NA	0.3 J	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.56	50	NA	0.7 J	0.79 J	0.6 J
1,2-Dichloroethane	5	0.2	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.18	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	500	NA	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	500	NA	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	500	NA	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.83	50	NA	**2.1**	**2.1**	**1.4**
Bromoform	8.51	0.3	50	NA	< 0.3 U	0.41 J	0.5 J
Bromomethane	8.66	0.3	50	NA	< 0.3 U	< 0.3 UJ	< 0.3 U
Carbon disulfide	1040	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	8	50	NA	**8**	**8.5**	**8.6**
Chlorobenzene	100	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	1000	1600	**1100**	**1000**	**1400**	**1100**
Chloromethane	2.7	0.3	50	NA	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U

Table 22 Analytical Results for Well TMPZ-107, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Dibromochloromethane	0.15	0.2	50	NA	**0.48 J**	**0.67 J**	**0.33 J**
Ethylbenzene	700	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.24	53	NA	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	50	NA	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	1.2	50	1.2 J	2.1	2.4	2
Toluene	1000	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	1003	1600	**1100**	**1003**	**1403**	**1102**
trans-1,2-Dichloroethene	100	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	50	NA	< 0.3 U	0.31 J	< 0.3 U
Trichlorofluoromethane	1290	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	50	NA	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	100	NA	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 23 Analytical Results for Well TMPZ-108, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		130	150	NA	NA	130 J	NA
ANIONS (reported in mg/L)							
Chloride	4	4300	7400	**5200**	**4700**	**4300 J**	**4900**
Nitrate	10	23	32	NA	NA	**23 J**	NA
Perchlorate	0.018	2.6	3.2	**2.7**	**3.1**	**3.1 J**	**2.8**
Sulfate	250	2800	3600	NA	NA	**2800 J**	NA
GENERAL (reported in mg/L)							
Nitrite	1	1	2	NA	**< 2 U**	< 1 UJ-	NA
Total Phosphorous		0.13	0.15	NA	NA	0.15	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		36.8	90.6	NA	NA	< 36.8 ± 22.8 U	NA
Adjusted Gross Alpha (Total) (c)	15	-69.19	-49.1	NA	NA	**-69.19**	NA
Beta (Total)	50	41.2	42.2	NA	NA	< 42.2 ± 25.8 U	NA
Uranium 238		29.5	60.2	NA	NA	29.5 ± 4.93	NA
Uranium 234		38	76.9	NA	NA	38 ± 6.31	NA
Thorium 230	0.042	-0.0646	0.104	NA	NA	**< 0.104 ± 0.062 U**	NA
Radium 226	5	0.926	1.9	NA	NA	1.9 ± 0.65	NA
Radon 222	300	1120	2290	NA	NA	**1120 ± 136**	NA
Lead 214		17.6	553	NA	NA	< 17.6 ± 10.6 UJ-	NA
Bismuth 214		24.9	535	NA	NA	< 24.9 ± 14.9 UJ-	NA
Thorium 232	0.14	0.0478	0.0495	NA	NA	< 0.0495 ± 0.0241 U	NA
Radium 228	5	0.672	0.99	NA	NA	0.672 ± 0.254 LT	NA
Radium (R226+R228) (d)	5	1.916	2.572	NA	NA	2.572	NA
Actinium 228		16.7	25.2	NA	NA	< 16.7 ± 9.51 U	NA
Thorium 228	0.11	0.0145	0.0855	NA	NA	< 0.0855 ± 0.0554 U	NA
Lead 212		2.17	15.6	NA	NA	< 15.6 ± 9.41 U	NA
Bismuth 212		-18.1	65.8	NA	NA	< 65.8 ± 40.5 U	NA
Thallium 208		2.59	4.95	NA	NA	4.95 ± 3.03 J	NA
Potassium 40		-16.5	158	NA	NA	< 158 ± 94.1 U	NA
Uranium 235		1.69	2.6	NA	NA	1.69 ± 0.392	NA
Proactinium 234		227	815	NA	NA	< 815 ± 476 U	NA
Radium 224		2.17	15.6	NA	NA	< 15.6 ± 9.41 U	NA
Thorium 227		-5.2	33.3	NA	NA	< 33.3 ± 19.6 U	NA
Thallium 234		25.6	157	NA	NA	< 157 ± 94.9 U	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	12000	18000	**14000**	**14000**	**12000**	**13000**
TOTAL METALS (reported in ug/L)							
Aluminum	50	150	560	NA	NA	**< 150 U**	NA
Antimony	6	20	30	NA	NA	**< 30 U**	NA

Table 23 Analytical Results for Well TMPZ-108, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	190	210	NA	NA	**210**	NA
Barium	2000	12	16	NA	NA	12 J-	NA
Beryllium	4	0.55	1.8	NA	NA	< 1.8 U	NA
Cadmium	5	3.3	5	NA	NA	< 3.3 U	NA
Calcium		590000	1000000	NA	NA	590000 J	NA
Chromium	100	260	370	NA	NA	**260**	NA
Chromium VI	100	300	520	**360**	**350**	**300**	**330**
Cobalt	11	4.5	10	NA	NA	< 4.5 U	NA
Copper	1300	2.2	9.7	NA	NA	< 9.7 U	NA
Iron	300	49	360	NA	NA	< 49 U	NA
Lead	15	3	13	NA	NA	< 13 U	NA
Lithium	73	510	960	NA	NA	**510 J+**	NA
Magnesium	207000	250000	440000	NA	NA	**250000 J**	NA
Mercury	2	0.011	0.029	NA	NA	0.011 J-	NA
Molybdenum	183	260	290	NA	NA	**290**	NA
Nickel	730	2.3	9.3	NA	NA	< 9.3 U	NA
Potassium		25000	62000	NA	NA	25000 J	NA
Selenium	50	7.4	27	NA	NA	< 27 U	NA
Silicon		36000	43000	NA	NA	43000	NA
Silver	100	4.1	11	NA	NA	< 11 U	NA
Sodium		2400000	3900000	NA	NA	2400000 J	NA
Thallium	2	0.03	0.059	NA	NA	0.03 J+	NA
Tin	21900	8.3	28	NA	NA	< 28 U	NA
Titanium	146000	2.7	19	NA	NA	< 2.7 U	NA
Uranium	30	76	200	**110**	**88**	**76**	**81**
Vanadium	183	52	76	NA	NA	76 J-	NA
Zinc	11000	7.2	47	NA	NA	< 7.2 U	NA
Zirconium	2.92	5	20	NA	NA	**< 5 U**	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	20	NA	NA	< 0.3 U	NA
1,1,2-Trichloroethane	5	0.3	20	NA	NA	< 0.3 U	NA
1,1-Dichloroethane	2.42	0.3	20	NA	NA	< 0.3 U	NA
1,1-Dichloroethene	7	0.97	20	NA	NA	0.97 J	NA
1,2-Dichloroethane	5	0.3	20	NA	NA	< 0.3 U	NA
1,2-Dichloropropane	5	0.3	20	NA	NA	< 0.3 U	NA
1,3-Dichlorobenzene	86.7	0.3	20	NA	NA	< 0.3 U	NA
2-Butanone	7060	3	200	NA	NA	< 3 U	NA
4-Methyl-2-pentanone	1990	3.4	200	NA	NA	< 3.4 U	NA
Acetone	21800	3	200	NA	NA	< 3 U	NA
Benzene	5	0.3	20	NA	NA	< 0.3 U	NA
Bromodichloromethane	0.12	0.3	20	NA	NA	**< 0.3 U**	NA
Bromoform	8.51	0.34	20	NA	NA	< 0.34 U	NA

Table 23 Analytical Results for Well TMPZ-108, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	20	NA	NA	< 0.3 U	NA
Carbon disulfide	1040	0.3	20	NA	NA	< 0.3 U	NA
Carbon tetrachloride	5	1.8	20	NA	NA	1.8	NA
Chlorobenzene	100	0.3	20	NA	NA	< 0.3 U	NA
Chloroform	0.19	520	700	**640**	**640**	**520**	**610**
Chloromethane	2.7	0.3	20	NA	NA	< 0.3 U	NA
cis-1,2-Dichloroethene	70	0.3	20	NA	NA	< 0.3 U	NA
Dibromochloromethane	0.15	0.3	20	NA	NA	**< 0.3 U**	NA
Ethylbenzene	700	0.3	20	NA	NA	< 0.3 U	NA
Methylene chloride	5	0.3	20	NA	NA	< 0.3 U	NA
Naphthalene	0.14	0.3	20	NA	NA	**< 0.3 U**	NA
Styrene	100	0.3	20	NA	NA	< 0.3 U	NA
Tetrachloroethene	5	31	70	**59**	**44**	**31**	**52**
Toluene	1000	0.3	20	NA	NA	< 0.3 U	NA
Total Trihalomethanes (e)	80	520	700	**640**	**640**	**520**	**610**
trans-1,2-Dichloroethene	100	0.3	20	NA	NA	< 0.3 U	NA
Trichloroethene	5	1.5	4.9	NA	NA	1.5	NA
Trichlorofluoromethane	1290	0.3	20	NA	NA	< 0.3 U	NA
Vinyl chloride	2	0.3	20	NA	NA	< 0.3 U	NA

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 24 Analytical Results for Well TMPZ-109, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		92	97	NA	NA	97	NA
ANIONS (reported in mg/L)							
Chloride	4	1500	2100	**1600**	**1600**	**1600**	**1700**
Nitrate	10	41	44	NA	NA	**41**	NA
Perchlorate	0.018	0.64	1	**0.68**	**0.64**	**0.65**	**0.68**
Sulfate	250	1700	1900	NA	NA	**1700**	NA
GENERAL (reported in mg/L)							
Nitrite	1	0.5	1	NA	NA	< 0.5 UJ-	NA
Total Phosphorous		0.05	0.05	NA	NA	< 0.05 U	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		18.7	31	NA	NA	18.7 ± 7.63 M3	NA
Adjusted Gross Alpha (Total) (c)	15	-19.43	-7.21	NA	NA	**-19.43**	NA
Beta (Total)	50	14.4	24.9	NA	NA	< 14.4 ± 9.09 U	NA
Uranium 238		15.4	15.9	NA	NA	15.9 ± 2.75	NA
Uranium 234		21.2	21.9	NA	NA	21.2 ± 3.62	NA
Thorium 230	0.042	0.0512	0.112	NA	NA	**< 0.112 ± 0.0556 U**	NA
Radium 226	5	0.307	1.5	NA	NA	0.307 ± 0.218 LT	NA
Radon 222	300	1960	2470	NA	NA	**2470 ± 286**	NA
Lead 214		15.2	488	NA	NA	< 15.2 ± 9.35 UJ-	NA
Bismuth 214		17.3	441	NA	NA	17.3 ± 8.22 J-	NA
Thorium 232	0.14	0.0296	0.0384	NA	NA	< 0.0296 ± 0.0153 U	NA
Radium 228	5	0.511	0.926	NA	NA	0.511 ± 0.239 LT	NA
Radium (R226+R228) (d)	5	0.818	2.426	NA	NA	0.818	NA
Actinium 228		19.3	28.6	NA	NA	< 28.6 ± 17 U	NA
Thorium 228	0.11	0.0918	0.0994	NA	NA	< 0.0994 ± 0.0522 U	NA
Lead 212		6.78	10.2	NA	NA	< 10.2 ± 6.24 U	NA
Bismuth 212		10.1	43.5	NA	NA	< 43.5 ± 26.6 U	NA
Thallium 208		6.72	9.16	NA	NA	< 9.16 ± 5.53 U	NA
Potassium 40		0.688	118	NA	NA	< 118 ± 70.5 U	NA
Uranium 235		0.906	1.03	NA	NA	1.03 ± 0.288	NA
Proactinium 234		208	632	NA	NA	< 632 ± 362 U	NA
Radium 224		6.78	10.2	NA	NA	< 10.2 ± 6.24 U	NA
Thorium 227		9.35	23.1	NA	NA	< 23.1 ± 13.9 U	NA
Thallium 234		24	65.7	NA	NA	< 65.7 ± 39.9 U	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5400	6200	**5700**	**6000**	**5700**	**5400**
TOTAL METALS (reported in ug/L)							
Aluminum	50	150	280	NA	NA	**< 150 U**	NA
Antimony	6	20	30	NA	NA	**< 30 U**	NA
Arsenic	10	88	98	NA	NA	**88**	NA

Table 24 Analytical Results for Well TMPZ-109, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Barium	2000	14	29	NA	NA	14 J-	NA
Beryllium	4	0.7	1.8	NA	NA	< 1.8 U	NA
Cadmium	5	3.3	5	NA	NA	< 3.3 U	NA
Calcium		640000	800000	NA	NA	640000	NA
Chromium	100	26	37	NA	NA	26 J-	NA
Chromium VI	100	39	47	43	43	42	39 J-
Cobalt	11	4.5	4.9	NA	NA	< 4.5 U	NA
Copper	1300	9.7	10	NA	NA	< 9.7 U	NA
Iron	300	49	170	NA	NA	< 49 U	NA
Lead	15	3	13	NA	NA	< 13 U	NA
Lithium	73	290	450	NA	NA	**290 J+**	NA
Magnesium	207000	330000	370000	NA	NA	**330000**	NA
Mercury	2	0.003	0.023	NA	NA	< 0.003 U	NA
Molybdenum	183	28	31	NA	NA	28 J-	NA
Nickel	730	1.8	9.3	NA	NA	< 9.3 U	NA
Potassium		11000	23000	NA	NA	11000	NA
Selenium	50	7.7	27	NA	NA	< 27 U	NA
Silicon		40000	43000	NA	NA	43000	NA
Silver	100	0.83	11	NA	NA	< 11 U	NA
Sodium		550000	720000	NA	NA	550000	NA
Thallium	2	0.016	0.026	NA	NA	< 0.016 U	NA
Tin	21900	28	50	NA	NA	< 28 U	NA
Titanium	146000	2.7	6.1	NA	NA	< 2.7 U	NA
Uranium	30	40	52	**44**	**42**	**40**	**44**
Vanadium	183	46	49	NA	NA	49 J-	NA
Zinc	11000	7.2	17	NA	NA	< 7.2 U	NA
Zirconium	2.92	5	20	NA	NA	**< 5 U**	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	2	NA	NA	< 0.3 U	NA
1,1,2-Trichloroethane	5	0.3	2	NA	NA	< 0.3 U	NA
1,1-Dichloroethane	2.42	0.3	2	NA	NA	< 0.3 U	NA
1,1-Dichloroethene	7	0.4	0.74	NA	NA	0.4 J	NA
1,2-Dichloroethane	5	0.3	2	NA	NA	< 0.3 U	NA
1,2-Dichloropropane	5	0.3	2	NA	NA	< 0.3 U	NA
1,3-Dichlorobenzene	86.7	0.3	2	NA	NA	< 0.3 U	NA
2-Butanone	7060	3	20	NA	NA	< 3 U	NA
4-Methyl-2-pentanone	1990	3.4	20	NA	NA	< 3.4 U	NA
Acetone	21800	3	20	NA	NA	< 3 U	NA
Benzene	5	0.3	2	NA	NA	< 0.3 U	NA
Bromodichloromethane	0.12	0.3	2	NA	NA	**< 0.3 U**	NA
Bromoform	8.51	0.34	2	NA	NA	< 0.34 U	NA
Bromomethane	8.66	0.3	2	NA	NA	< 0.3 U	NA

Table 24 Analytical Results for Well TMPZ-109, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Carbon disulfide	1040	0.3	2	NA	NA	< 0.3 U	NA
Carbon tetrachloride	5	1.9	1.9	NA	NA	1.9	NA
Chlorobenzene	100	0.3	2	NA	NA	< 0.3 U	NA
Chloroform	0.19	54	63	**61**	**59**	**56**	**54**
Chloromethane	2.7	0.3	2	NA	NA	< 0.3 U	NA
cis-1,2-Dichloroethene	70	0.3	2	NA	NA	< 0.3 U	NA
Dibromochloromethane	0.15	0.3	2	NA	NA	**< 0.3 U**	NA
Ethylbenzene	700	0.3	2	NA	NA	< 0.3 U	NA
Methylene chloride	5	0.3	2	NA	NA	< 0.3 U	NA
Naphthalene	0.14	0.3	2	NA	NA	**< 0.3 U**	NA
Styrene	100	0.3	2	NA	NA	< 0.3 U	NA
Tetrachloroethene	5	34	51	**51**	**43**	**42**	**45**
Toluene	1000	0.3	1	NA	NA	< 0.3 U	NA
Total Trihalomethanes (e)	80	54	63	61	59	56	54
trans-1,2-Dichloroethene	100	0.3	2	NA	NA	< 0.3 U	NA
Trichloroethene	5	8.2	9	NA	NA	**8.3**	NA
Trichlorofluoromethane	1290	0.3	2	NA	NA	< 0.3 U	NA
Vinyl chloride	2	0.3	2	NA	NA	< 0.3 U	NA
Total Xylene	10000	2	4	NA	NA	< 2 U	NA

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 25 Analytical Results for Well TMPZ-110, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		130	170	NA	150	170	160 J
ANIONS (reported in mg/L)							
Chloride	4	930	1200	**930**	**1100**	**1100**	**1200 J**
Nitrate	10	7.2	11	NA	7.4	**11**	7.2 J
Perchlorate	0.018	1.6	3.3	**1.6**	**1.8**	**2**	**1.7 J**
Sulfate	250	2200	2500	NA	**2200**	**2300**	**2500 J**
GENERAL (reported in mg/L)							
Fluoride	4	2	2	NA	NA	NA	2 J
Nitrite	1	0.5	1	NA	< 0.5 U	< 0.5 U	< 1 U
Total Phosphorous		0.05	0.064	NA	< 0.05 U	< 0.05 U	< 0.05 UJ-
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		28.5	105	NA	52.5 ± 12.8 M3	44.2 ± 10.7 M3	40 ± 12.2
Adjusted Gross Alpha (Total) (c)	15	-68.1	-28.2	NA	**-37.53**	**-62**	**-36.4**
Beta (Total)	50	13.9	39.5	NA	35.4 ± 13.5 M3	34.8 ± 10.8 M3	< 23 ± 14.2 U
Uranium 238		27.2	73.3	NA	37.2 ± 6.31	44.6 ± 7.44	32 ± 5.29
Uranium 234		36.4	96.4	NA	51.2 ± 8.63	58.6 ± 9.73	43 ± 7.12
Thorium 230	0.042	-0.08	0.0951	NA	< -0.031 ± 0.0584 U	**< 0.0951 ± 0.052 U**	**< 0.079 ± 0.0476 U**
Radium 226	5	0.541	2.15	NA	2.15 ± 0.767	1.19 ± 0.409	1.1 ± 0.472
Radon 222	300	200	1500	NA	**1500 ± 178**	**1010 ± 124**	**1400 ± 163**
Lead 214		1.38	127	NA	127 ± 18.2 J-	19.2 ± 11.1 J	< 18 ± 10.8 UJ-
Bismuth 214		8.76	121	NA	121 ± 18.9 J-	< 22.9 ± 10.8 UJ-	< 16 ± 10.1 UJ-
Thorium 232	0.14	-0.0105	0.0429	NA	< 0.0217 ± 0.0255 U	0.00859 ± 0.0123 LT	NA
Radium 228	5	0.238	1.07	NA	< 0.404 ± 0.298 U	1.07 ± 0.385	0.56 ± 0.274
Radium (R226+R228) (d)	5	0.609	2.26	NA	2.15	2.26	1.66
Actinium 228		9.26	17	NA	< 9.26 ± 10.5 U	< 15.6 ± 9.89 U	< 17 ± 8.51 U
Thorium 228	0.11	-0.0649	0.105	NA	< -0.0649 ± 0.0845 U	< 0.105 ± 0.0542 U	< 0.09 ± 0.0486 U
Lead 212		-0.36	13	NA	< 1.29 ± 6.4 U	< 9.49 ± 5.68 U	< 13 ± 7.92 U
Bismuth 212		19.5	68	NA	< 30.3 ± 34.3 U	< 60.7 ± 35.7 U	< 68 ± 41.8 U
Thallium 208		2.08	8.72	NA	4.14 ± 2.61 NQ	< 8.72 ± 5.21 U	5.8 ± 3 J
Potassium 40		-43.4	160	NA	< -43.4 ± 67.6 U	< 123 ± 73.2 U	< 160 ± 95.3 U
Uranium 235		1.2	3.4	NA	1.63 ± 0.408	2.96 ± 0.62	1.4 ± 0.355
Proactinium 234		134	770	NA	< 206 ± 413 U	< 665 ± 399 U	< 770 ± 460 U
Radium 224		-0.36	13	NA	< 1.29 ± 6.4 U	< 9.49 ± 5.68 U	< 13 ± 7.92 U
Thorium 227		-10.8	24	NA	< -10.8 ± 12.8 U	< 20.2 ± 11.8 U	< 24 ± 13.9 U
Thallium 234		-30.4	170	NA	< -30.4 ± 74.1 U	< 122 ± 73.4 U	< 170 ± 102 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4900	5900	**4900**	**5800**	**5600**	**5900**
TOTAL METALS (reported in ug/L)							
Aluminum	50	76	390	NA	**< 76 U**	**< 150 UJ-**	**190**
Antimony	6	3	100	NA	**< 15 U**	**< 30 U**	< 3 U

Table 25 Analytical Results for Well TMPZ-110, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	51	58	NA	**55**	**53**	**52**
Barium	2000	13	24	NA	14 J	15 J-	16 J-
Beryllium	4	0.23	10	NA	< 0.88 U	< 1.8 U	0.23 J+
Cadmium	5	0.33	25	NA	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		550000	680000	NA	680000	550000	560000 J
Chromium	100	4.3	14	NA	4.3 J	8.5 J-	8 J-
Chromium VI	100	12	32	32	12	21	NA
Cobalt	11	0.45	50	NA	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	NA	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	25	500	NA	< 25 U	< 49 U	27 J+
Lead	15	1.3	15	NA	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	300	470	NA	**340 J**	**300**	**470 J+**
Magnesium	207000	280000	310000	NA	**300000**	**280000**	**290000 J**
Mercury	2	0.0029	0.2	NA	0.042 J	0.0061 J-	< 0.0029 U
Molybdenum	183	13	37	NA	19 J	13 J-	37
Nickel	730	2.2	100	NA	< 4.7 U	< 9.3 U	2.2 J-
Potassium		7300	16000	NA	10000 J+	7300 J-	16000 J+
Selenium	50	8.2	27	NA	< 13 U	< 27 U	8.2
Silicon		39000	48000	NA	48000	45000	44000
Silver	100	1.1	50	NA	< 5.4 U	< 11 U	< 1.1 U
Sodium		460000	610000	NA	580000	610000 J+	610000 J
Thallium	2	0.016	0.2	NA	0.02 J	< 0.016 U	0.02 J+
Tin	21900	2.8	250	NA	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	NA	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	62	250	**62**	**110**	**120**	**87**
Vanadium	183	41	45	NA	42 J	45 J	41
Zinc	11000	0.72	140	NA	< 3.6 U	8.5 J-	< 0.72 U
Zirconium	2.92	0.5	20	NA	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.18	0.32	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	1.1	2.9	NA	1.6	1.6	1.5
1,2-Dichloroethane	5	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	10	NA	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	10	NA	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	10	NA	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	1	NA	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	NA	< 0.3 U	< 0.34 U	< 0.34 U

Table 25 Analytical Results for Well TMPZ-110, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.18	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	100	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	8.2	16	**15**	**12**	**13**	**8.2**
Chloromethane	2.7	0.3	1	NA	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	1	NA	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	1	NA	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.19	1	NA	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	12	26	**26**	**22**	**19**	**25**
Toluene	1000	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	8.2	16	15	12	13	8.2
trans-1,2-Dichloroethene	100	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.24	0.78	NA	0.44 J	0.49 J	0.78 J
Trichlorofluoromethane	1290	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	1	NA	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	2	NA	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 26 Analytical Results for Well TMPZ-111, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2013
ALKALINITY (reported in mg/L)				
Bicarbonate Alkalinity		20	100	< 20 U
ANIONS (reported in mg/L)				
Chloride	4	270	280	**270**
Nitrate	10	4.6	5.2	5.2
Perchlorate	0.018	0.18	0.31	**0.18**
Sulfate	250	1800	2300	**1800**
GENERAL (reported in mg/L)				
Fluoride	4	2.1	2.1	2.1
Nitrite	1	0.5	0.5	< 0.5 U
Total Phosphorous		0.11	0.13	0.11 J+
RADIONUCLIDES (reported in pCi/L)				
Alpha (Total)		17	39.3	17 ± 9.45
Adjusted Gross Alpha (Total) (c)	15	-7.58	9.36	**-7.58**
Beta (Total)	50	20	27.5	< 20 ± 12.8 U
Uranium 238		10	12.1	10 ± 1.84
Uranium 234		14	17.2	14 ± 2.46
Thorium 230	0.042	0.076	0.177	**< 0.076 ± 0.0421 U**
Radium 226	5	0.156	0.72	0.72 ± 0.349
Radon 222	300	976	1100	**1100 ± 127**
Lead 214		9.2	93.4	9.2 ± 4 J-
Bismuth 214		17	75.1	< 17 ± 10.4 UJ-
Radium 228	5	0.51	0.723	0.51 ± 0.274
Radium (R226+R228) (d)	5	0	1.23	1.23
Actinium 228		15	20.2	< 15 ± 7.15 U
Thorium 228	0.11	0.068	0.0874	< 0.068 ± 0.0409 U
Lead 212		-0.222	11	< 11 ± 6.68 U
Bismuth 212		25.8	91	< 91 ± 54 U
Thallium 208		0.433	8.7	< 8.7 ± 4.99 U
Potassium 40		8.95	110	< 110 ± 63.3 U
Uranium 235		0.58	0.644	0.58 ± 0.225
Proactinium 234		-0.879	620	< 620 ± 376 U

Table 26 Analytical Results for Well TMPZ-111, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2013
Radium 224		-0.222	11	< 11 ± 6.68 U
Thorium 227		-12.8	17	< 17 ± 10 U
Thallium 234		-50.1	73	< 73 ± 36 U
SOLIDS (reported in mg/L)				
Total Dissolved Solids	1900	3400	4000	**3400**
TOTAL METALS (reported in ug/L)				
Aluminum	50	35	2200	35 J+
Antimony	6	3	20	< 3 U
Arsenic	10	100	100	**100**
Barium	2000	10	41	10 J-
Beryllium	4	0.18	0.77	< 0.18 U
Cadmium	5	0.33	5	< 0.33 U
Calcium		300000	400000	300000
Chromium	100	11	25	11 J-
Chromium VI	100	12	24	12
Cobalt	11	0.45	10	< 0.45 U
Copper	1300	0.97	2.2	< 0.97 U
Iron	300	21	1600	21 J+
Lead	15	1.3	2.7	< 1.3 U
Lithium	73	150	220	**150 J+**
Magnesium	207000	120000	170000	120000
Mercury	2	0.0029	0.026	< 0.0029 U
Molybdenum	183	61	69	61
Nickel	730	1.3	3.7	1.3 J-
Potassium		14000	19000	14000 J+
Selenium	50	2.9	5.5	2.9 J
Silicon		40000	41000	41000
Silver	100	1.1	10	< 1.1 U
Sodium		400000	560000	400000
Thallium	2	0.044	0.07	0.07 J+
Tin	21900	2.8	50	< 2.8 U
Titanium	146000	0.27	82	< 0.27 U
Uranium	30	29	38	29

Table 26 Analytical Results for Well TMPZ-111, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2013
Vanadium	183	41	44	44
Zinc	11000	0.72	43	< 0.72 U
Zirconium	2.92	0.5	20	< 0.5 U
VOLATILES (reported in ug/L)				
1,1,1-Trichloroethane	200	0.3	1	< 0.3 U
1,1,2-Trichloroethane	5	0.3	1	< 0.3 U
1,1-Dichloroethane	2.42	1.8	1.9	1.9
1,1-Dichloroethene	7	10	14	**10**
1,2-Dichloroethane	5	0.3	1	< 0.3 U
1,2-Dichloropropane	5	0.3	1	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	1	< 0.3 U
2-Butanone	7060	3	10	< 3 U
4-Methyl-2-pentanone	1990	3.4	10	< 3.4 U
Acetone	21800	3	10	< 3 U
Benzene	5	0.3	1	< 0.3 U
Bromodichloromethane	0.12	0.3	1	**< 0.3 U**
Bromoform	8.51	0.34	1	< 0.34 U
Bromomethane	8.66	0.3	1	< 0.3 U
Carbon disulfide	1040	0.3	1	< 0.3 U
Carbon tetrachloride	5	0.3	1	< 0.3 U
Chlorobenzene	100	0.3	1	< 0.3 U
Chloroform	0.19	2.3	4.2	**2.3**
Chloromethane	2.7	0.3	1	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	1	< 0.3 U
Dibromochloromethane	0.15	0.3	1	**< 0.3 U**
Ethylbenzene	700	0.3	1	< 0.3 U
Methylene chloride	5	0.3	1	< 0.3 U
Naphthalene	0.14	0.3	1	**< 0.3 U**
Styrene	100	0.3	1	< 0.3 U
Tetrachloroethene	5	39	65	**65**
Toluene	1000	0.3	0.4	< 0.3 U
Total Trihalomethanes (e)	80	2.3	4.2	2.3
trans-1,2-Dichloroethene	100	0.3	1	< 0.3 U

Table 26 Analytical Results for Well TMPZ-111, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2013
Trichloroethene	5	0.99	1.2	0.99 J
Trichlorofluoromethane	1290	0.3	1	< 0.3 U
Vinyl chloride	2	0.3	1	< 0.3 U
Total Xylene	10000	2	2	< 2 U

Notes:

a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.

b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.

c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)

d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228

e - Total Trihalomethanes were calculated using the following equation:

Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane

+ - Biased high

- - Biased low

µg/L - micrograms per liter

BCL - Basic Comparison Level

MCL - Maximum Contaminant Level

NDEP - Nevada Division of Environmental Protection

mg/L - milligrams per liter

NA - Not analyzed; or not calculated if components not detected

pCi/L - Picocuries per liter

SMSTR - Semester

Missing columns = no samples analyzed during monitoring event

Qualifiers:

J - Estimated value

U - Analyte not detected above the referenced reporting limit

R - Rejected data point

Table 27 Analytical Results for Well TMPZ-112, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2013
ALKALINITY (reported in mg/L)				
Bicarbonate Alkalinity		76	89	76
ANIONS (reported in mg/L)				
Chloride	4	200	230	**230**
Nitrate	10	4.4	5.3	5.3
Perchlorate	0.018	0.14	0.15	**0.14**
Sulfate	250	3000	3200	**3000**
GENERAL (reported in mg/L)				
Fluoride	4	20	20	**< 20 U**
Nitrite	1	0.5	1	< 1 U
Total Phosphorous		0.054	0.079	0.054 J+
RADIONUCLIDES (reported in pCi/L)				
Alpha (Total)		8.99	14	< 14 ± 8.95 U
Adjusted Gross Alpha (Total) (c)	15	-13.68	-3.94	**-13.68**
Beta (Total)	50	17.5	20	20 ± 12.6
Uranium 238		4.9	5.1	5.1 ± 0.962
Uranium 234		7.77	8.3	8.3 ± 1.5
Thorium 230	0.042	0.0397	0.086	**0.086 ± 0.0555**
Radium 226	5	0.3	0.555	< 0.3 ± 0.2 U
Radon 222	300	30	800	< 30 ± 18.5 U
Lead 214		20	55	< 20 ± 12.4 UJ-
Bismuth 214		19	47.4	< 19 ± 8.64 UJ-
Radium 228	5	0.47	1.03	< 0.47 ± 0.242 U
Radium (R226+R228) (d)	5	0	1.585	**< 0**
Actinium 228		13.8	15	15 ± 9.5 J
Thorium 228	0.11	-0.0406	0.096	< 0.096 ± 0.0516 U
Lead 212		1.57	15	< 15 ± 8.94 U
Bismuth 212		14.8	56	< 56 ± 34.5 U
Thallium 208		-0.364	4.7	4.7 ± 2.56 J
Potassium 40		-7.06	110	< 110 ± 68 U
Uranium 235		0.256	0.28	0.28 ± 0.137
Proactinium 234		-118	640	< 640 ± 391 U

Table 27 Analytical Results for Well TMPZ-112, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2013
Radium 224		1.57	15	< 15 ± 8.94 U
Thorium 227		-0.813	31	< 31 ± 18.3 U
Thallium 234		-65.2	190	< 190 ± 117 U
SOLIDS (reported in mg/L)				
Total Dissolved Solids	1900	5200	5200	**5200**
TOTAL METALS (reported in ug/L)				
Aluminum	50	160	860	**160**
Antimony	6	3	20	< 3 U
Arsenic	10	100	100	**100**
Barium	2000	9.2	14	9.2 J-
Beryllium	4	0.22	0.6	0.22 J+
Cadmium	5	0.33	5	< 0.33 U
Calcium		480000	500000	480000
Chromium	100	12	14	14 J-
Chromium VI	100	10	13	13
Cobalt	11	0.45	10	< 0.45 U
Copper	1300	0.97	10	< 0.97 U
Iron	300	120	570	120
Lead	15	1.3	4.1	< 1.3 U
Lithium	73	160	180	**160 J+**
Magnesium	207000	240000	250000	**240000**
Mercury	2	0.0029	0.029	< 0.0029 U
Molybdenum	183	56	57	56
Nickel	730	2.1	2.3	2.1 J-
Potassium		20000	20000	20000 J+
Selenium	50	3.8	5	3.8 J
Silicon		38000	41000	41000
Silver	100	1.1	10	< 1.1 U
Sodium		490000	580000	490000
Thallium	2	0.02	0.035	0.02 J+
Tin	21900	2.8	6.3	< 2.8 U
Titanium	146000	1.8	29	1.8 J-
Uranium	30	15	16	15

Table 27 Analytical Results for Well TMPZ-112, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2013
Vanadium	183	32	35	35
Zinc	11000	11	52	11 J-
Zirconium	2.92	0.5	20	< 0.5 U
VOLATILES (reported in ug/L)				
1,1,1-Trichloroethane	200	0.3	8	< 0.3 U
1,1,2-Trichloroethane	5	0.3	8	< 0.3 U
1,1-Dichloroethane	2.42	0.39	1.5	0.39 J
1,1-Dichloroethene	7	0.39	4.7	0.39 J
1,2-Dichloroethane	5	0.3	8	< 0.3 U
1,2-Dichloropropane	5	0.3	8	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	8	< 0.3 U
2-Butanone	7060	3	80	< 3 U
4-Methyl-2-pentanone	1990	3.4	80	< 3.4 U
Acetone	21800	3	80	< 3 U
Benzene	5	0.3	8	< 0.3 U
Bromodichloromethane	0.12	0.3	8	**< 0.3 U**
Bromoform	8.51	0.34	8	< 0.34 U
Bromomethane	8.66	0.3	8	< 0.3 U
Carbon disulfide	1040	0.3	8	< 0.3 U
Carbon tetrachloride	5	0.56	10	0.56 J
Chlorobenzene	100	0.3	8	< 0.3 U
Chloroform	0.19	61	220	**61**
Chloromethane	2.7	0.3	8	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	8	< 0.3 U
Dibromochloromethane	0.15	0.3	8	**< 0.3 U**
Ethylbenzene	700	0.3	8	< 0.3 U
Methylene chloride	5	0.3	8	< 0.3 U
Naphthalene	0.14	0.3	8	**< 0.3 U**
Styrene	100	0.3	8	< 0.3 U
Tetrachloroethene	5	1.9	16	1.9
Toluene	1000	0.3	8	< 0.3 U
Total Trihalomethanes (e)	80	61	220	61
trans-1,2-Dichloroethene	100	0.3	8	< 0.3 U

Table 27 Analytical Results for Well TMPZ-112, Plant Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2013
Trichloroethene	5	0.56	3.9	0.56 J
Trichlorofluoromethane	1290	0.3	8	< 0.3 U
Vinyl chloride	2	0.3	8	< 0.3 U
Total Xylene	10000	2	16	< 2 U

Notes:

a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.

b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.

c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)

d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228

e - Total Trihalomethanes were calculated using the following equation:

Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane

\+ - Biased high

\- - Biased low

µg/L - micrograms per liter

BCL - Basic Comparison Level

MCL - Maximum Contaminant Level

NDEP - Nevada Division of Environmental Protection

mg/L - milligrams per liter

NA - Not analyzed; or not calculated if components not detected

pCi/L - Picocuries per liter

SMSTR - Semester

Missing columns = no samples analyzed during monitoring event

Qualifiers:

J - Estimated value

U - Analyte not detected above the referenced reporting limit

R - Rejected data point

Table 28 Analytical Results for Well TMMW-101, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		110	130	120	120	120	120 J
ANIONS (reported in mg/L)							
Chloride	4	110	260	**190**	**230**	**250**	**260 J**
Nitrate	10	0.4	13	**13**	5.4	5.9	5.8 J
Perchlorate	0.018	0.0068	0.52	**0.15**	**0.48**	**0.52**	**0.43 J**
Sulfate	250	820	1300	**930**	**920**	**940**	**930 J**
GENERAL (reported in mg/L)							
Fluoride	4	0.98	0.98	NA	NA	NA	0.98 J
Nitrite	1	0.2	0.5	< 0.5 U	< 0.2 U	< 0.5 U	< 0.2 U
Total Phosphorous		0.05	0.05	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		4.39	13.7	9.25 ± 3.1 M3	11 ± 4.49 M3	12.2 ± 3.41 M3	4.5 ± 2.36
Adjusted Gross Alpha (Total) (c)	15	-16.57	2.25	**-1.01**	1.184	2.04	**-3.21**
Beta (Total)	50	-4.06	16.3	11.6 ± 3.84 M3	12.7 ± 6.64 M3	12.9 ± 3.94 M3	13 ± 4
Uranium 238		2.6	5.95	3.33 ± 0.675	3.35 ± 0.684	3.77 ± 0.779 J+	2.6 ± 0.543
Uranium 234		5	10.1	6.75 ± 1.24	6.31 ± 1.18	6.39 ± 1.21 M3	5 ± 0.935
Thorium 230	0.042	-0.0328	0.159	< -0.0328 ± 0.064 U	< 0.0237 ± 0.0585 U	**0.112 ± 0.071 LT**	**0.086 ± 0.0541**
Radium 226	5	-0.303	0.902	< 0.04 ± 0.265 U	< 0.125 ± 0.206 U	< 0.166 ± 0.114 U	< 0.26 ± 0.172 U
Radon 222	300	23.2	1040	**996 ± 121**	**704 ± 87.2**	**741 ± 93.9**	**710 ± 87.5**
Lead 214		-9.12	43.6	< -9.12 ± 10.2 UJ-	43.6 ± 11 J-	< 17.6 ± 10.6 UJ-	< 14 ± 8.24 UJ-
Bismuth 214		-4.61	46	< -4.61 ± 10.7 UJ-	46 ± 15.1 J-	< 22.8 ± 13.7 UJ-	< 19 ± 8.88 UJ-
Thorium 232	0.14	0.00251	0.0463	< 0.00692 ± 0.019 U	< 0.00251 ± 0.021 U	< 0.0455 ± 0.0312 U	NA
Radium 228	5	0.125	12.2	0.596 ± 0.33 J	< 0.125 ± 0.314 U	< 0.444 ± 0.232 U	< 0.59 ± 0.279 U
Radium (R226+R228) (d)	5	0	0.902	0.596	**< 0**	**< 0**	**< 0**
Actinium 228		-4.14	25	< 12.2 ± 9.88 U	22.6 ± 13 NQ	16.2 ± 7.91 J	< 25 ± 11.6 U
Thorium 228	0.11	-0.118	0.121	< -0.118 ± 0.095 U	< 0.011 ± 0.0637 U	**< 0.121 ± 0.0675 U**	< 0.088 ± 0.0498 U
Lead 212		-4.65	10.2	< -4.65 ± 6.61 U	< 4.09 ± 9.53 U	< 10.2 ± 6.16 U	< 10 ± 6.22 U
Bismuth 212		-3.58	57.4	< 14.9 ± 34.2 U	< 2.87 ± 48.7 U	< 57.4 ± 35.1 U	< 54 ± 32.3 U
Thallium 208		-0.987	5.17	< -0.987 ± 5.11 U	< 1.47 ± 5.81 U	< 4.24 ± 2.68 U	4.3 ± 2.35 J+
Potassium 40		-67.4	121	< -25.3 ± 67.5 U	< -11.7 ± 96.2 U	< 121 ± 71.9 U	< 100 ± 60.8 U
Uranium 235		0.11	0.526	0.182 ± 0.107 LT	0.156 ± 0.102 J	< 0.194 ± 0.12 U	0.11 ± 0.0856
Proactinium 234		-198	687	< 291 ± 262 U	< 216 ± 576 U	< 687 ± 403 U	< 640 ± 386 U
Radium 224		-4.65	10.2	< -4.65 ± 6.61 U	< 4.09 ± 9.53 U	< 10.2 ± 6.16 U	< 10 ± 6.22 U
Thorium 227		-21.8	27.6	< -0.28 ± 10.3 U	< -12.6 ± 23.2 U	< 27.6 ± 16.5 U	< 24 ± 13.9 U
Thallium 234		-21.4	119	< -1.49 ± 46.8 U	< -9.53 ± 86.7 U	< 119 ± 71.4 U	< 71 ± 36 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	1400	2300	1800	**2000**	**2100**	1800
TOTAL METALS (reported in ug/L)							
Aluminum	50	40	2000	**< 500 U**	**< 76 U**	**< 150 UJ-**	40 J+
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U

Table 28 Analytical Results for Well TMMW-101, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	17	39	**18**	**39**	**37**	**27**
Barium	2000	7.9	33	7.9 J	11 J	11 J-	8.6 J-
Beryllium	4	0.16	2.8	2.8 J	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		99000	230000	180000	150000 J-	160000	99000 J
Chromium	100	2.5	50	< 50 U	13 J	< 5.1 U	6.3 J-
Chromium VI	100	10	12	< 10 U	12 J-	12	< 10 U
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	1700	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	77	160	**83 J+**	**120 J**	**96 J-**	**120 J+**
Magnesium	207000	58000	110000	86000	90000 J-	94000	58000 J
Mercury	2	0.0029	0.2	0.017 J	< 0.0029 U	0.018 J+	< 0.0029 U
Molybdenum	183	11	50	< 50 U	50	33 J-	45
Nickel	730	0.93	100	< 100 U	< 4.7 U	< 9.3 U	< 0.93 U
Potassium		6700	13000	7700 J	9100	6700 J-	9700 J
Selenium	50	2.7	27	< 25 U	< 13 U	< 27 U	< 2.7 U
Silicon		13000	27000	14000	24000 J-	23000	16000
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		100000	280000	230000 J	260000 J-	260000 J+	180000 J
Thallium	2	0.016	0.2	< 0.2 U	0.05 J	0.05 J+	< 0.016 U
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	7.2	17	11	12	10	7.2
Vanadium	183	9.8	20	9.8 J	18 J	16 J	12
Zinc	11000	0.72	430	< 100 U	< 3.6 U	83 J-	< 0.72 U
Zirconium	2.92	0.5	20	**16 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
1,1,2-Trichloroethane	5	0.28	1	< 1 U	< 0.3 U	< 0.28 U	< 0.3 U
1,1-Dichloroethane	2.42	0.22	1	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
1,1-Dichloroethene	7	0.2	1	< 1 U	< 0.3 U	< 0.2 U	< 0.3 U
1,2-Dichloroethane	5	0.26	1	< 1 U	< 0.3 U	< 0.26 U	< 0.3 U
1,2-Dichloropropane	5	0.26	1	< 1 U	< 0.3 U	< 0.26 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.23	1	< 1 U	< 0.3 U	< 0.23 U	< 0.3 U
2-Butanone	7060	3	10	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	2.8	10	< 10 U	< 6.4 U	< 2.8 U	< 3 U
Benzene	5	0.23	1	< 1 U	< 0.3 U	< 0.23 U	< 0.3 U
Bromodichloromethane	0.12	0.3	2.1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U

Table 28 Analytical Results for Well TMMW-101, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.15	1	< 1 U	< 0.3 U	< 0.15 U	< 0.3 U
Carbon disulfide	1040	0.25	1	< 1 U	< 0.3 U	< 0.25 U	< 0.3 U
Carbon tetrachloride	5	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Chlorobenzene	100	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Chloroform	0.19	4.1	11	**11**	**5.5**	**4.6**	**4.2**
Chloromethane	2.7	0.24	1	< 1 U	< 0.33 U	< 0.24 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Dibromochloromethane	0.15	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.22	1	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
Methylene chloride	5	0.17	1	< 1 U	< 0.32 U	< 0.25 U	< 0.3 U
Naphthalene	0.14	0.27	1	**< 1 U**	**< 0.42 U**	**< 0.27 U**	**< 0.3 U**
Styrene	100	0.28	1	< 1 U	< 0.3 U	< 0.28 U	< 0.3 U
Tetrachloroethene	5	0.18	1	< 1 U	< 0.19 U	< 0.18 U	< 0.18 U
Toluene	1000	0.22	1	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
Total Trihalomethanes (e)	80	4.2	11	11	5.5	4.6	4.2
trans-1,2-Dichloroethene	100	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
Trichloroethene	5	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Trichlorofluoromethane	1290	0.2	1	< 1 U	< 0.3 U	< 0.2 U	< 0.3 U
Vinyl chloride	2	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
Total Xylene	10000	0.6	2	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 29 Analytical Results for Well TMMW-102, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)						
Bicarbonate Alkalinity		100	140	130 J	130	130
ANIONS (reported in mg/L)						
Chloride	4	100	720	**150 J**	**170**	**170**
Nitrate	10	0.25	12	0.25 J	0.54	1.8
Perchlorate	0.018	0.025	1.6	**0.05 J**	**0.06**	**0.056**
Sulfate	250	340	1400	**490 J**	**590**	**570**
GENERAL (reported in mg/L)						
Fluoride	4	1	1	NA	NA	1
Nitrite	1	0.1	0.5	< 0.1 U	< 0.2 U	< 0.2 U
Total Phosphorous		0.05	0.05	< 0.05 U	< 0.05 U	< 0.05 U
RADIONUCLIDES (reported in pCi/L)						
Alpha (Total)		4.7	11	7.77 ± 2.13	7.52 ± 2.47	11 ± 2.88
Adjusted Gross Alpha (Total) (c)	15	-10.72	-0.64	**-5.27**	**-3.67**	**-1.1**
Beta (Total)	50	5.3	10.1	7.52 ± 2.52	7.25 ± 3.39 M3	10 ± 2.78
Uranium 238		3.07	4.35	4.26 ± 0.836	3.52 ± 0.672 J+	4.1 ± 0.708
Uranium 234		5.14	8.54	8.54 ± 1.55	7.53 ± 1.3	7.8 ± 1.3
Thorium 230	0.042	-0.0569	0.16	< 0.0176 ± 0.054 U	**< 0.113 ± 0.0705 U**	**< 0.16 ± 0.0873 UJ-**
Radium 226	5	-0.213	0.258	< 0.0301 ± 0.148 U	< 0.258 ± 0.136 U	< 0.21 ± 0.18 U
Radon 222	300	160	645	**365 ± 50.2**	**645 ± 82.9**	**350 ± 49.8**
Lead 214		-2.48	29	24.9 ± 9.56 J-	< 17.6 ± 10.6 UJ-	< 19 ± 11.4 UJ-
Bismuth 214		1.38	27	27 ± 11 J-	< 23 ± 13.9 UJ-	< 23 ± 14.1 UJ-
Thorium 232	0.14	0.0033	0.0638	< 0.0102 ± 0.0186 U	0.0638 ± 0.0342 LT	NA
Radium 228	5	-0.213	2.59	< 0.042 ± 0.317 U	< 0.448 ± 0.246 U	< 0.46 ± 0.241 U
Radium (R226+R228) (d)	5	0	0.964	**< 0**	**< 0**	**< 0**
Actinium 228		2.16	19.7	< 4.07 ± 20.1 U	< 15 ± 7.2 U	< 16 ± 8.2 U
Thorium 228	0.11	-0.0331	0.27	< -0.0331 ± 0.0466 U	< 0.106 ± 0.0581 U	**< 0.27 ± 0.151 UJ-**
Lead 212		-0.551	13	< 3.27 ± 7.57 U	< 9.82 ± 5.88 U	< 13 ± 7.77 U
Bismuth 212		-18.1	58.7	< 45.9 ± 40 U	< 58.7 ± 36.7 U	< 56 ± 33.8 U
Thallium 208		-0.746	9.27	5.03 ± 2.93 NQ	< 9.27 ± 5.57 U	< 7.9 ± 4.79 U
Potassium 40		-98.1	120	< -21.8 ± 77.6 U	< 120 ± 71 U	< 120 ± 72.2 U
Uranium 235		0.0844	0.266	0.242 ± 0.125	0.136 ± 0.0845 LT	0.2 ± 0.0828
Proactinium 234		-102	679	< -102 ± 461 U	< 679 ± 407 U	< 670 ± 396 U
Radium 224		-0.551	13	< 3.27 ± 7.57 U	< 9.82 ± 5.88 U	< 13 ± 7.77 U
Thorium 227		-9.48	31	< -3.62 ± 19.6 U	< 19.2 ± 11.7 U	< 31 ± 18 U
Thallium 234		-65.1	210	< 41.1 ± 75.2 U	< 122 ± 73.2 U	< 210 ± 127 U
SOLIDS (reported in mg/L)						
Total Dissolved Solids	1900	870	3000	1200 J	1300	1200
TOTAL METALS (reported in ug/L)						
Aluminum	50	68	260	**< 76 U**	**< 150 UJ-**	**120**
Antimony	6	3	30	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	16	25	**22**	**20**	**25**
Barium	2000	3	24	6.7 J	3 J-	13 J-
Beryllium	4	0.18	2	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.44	5	< 1.6 U	< 3.3 U	0.44 J-

Table 29 Analytical Results for Well TMMW-102, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Calcium		80000	280000	110000 J-	140000	140000
Chromium	100	2.6	9.9	< 2.6 U	< 5.1 U	4 J-
Chromium VI	100	3	10	< 3 U	< 10 U	< 10 U
Cobalt	11	0.45	10	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	10	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	25	160	< 25 U	< 49 U	40 J-
Lead	15	1.3	13	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	63	210	**76 J**	63 J-	**130 J+**
Magnesium	207000	52000	150000	66000 J-	79000	69000
Mercury	2	0.0029	0.2	< 0.0029 U	0.028 J+	< 0.0029 U
Molybdenum	183	14	40	24 J	14 J-	29
Nickel	730	0.88	20	< 4.7 U	< 9.3 U	2 J-
Potassium		3700	20000	4900 J	3700 J-	10000 J+
Selenium	50	3.4	27	< 13 U	< 27 U	4.5 J-
Silicon		16000	21000	20000 J-	21000	21000
Silver	100	1.1	11	< 5.4 U	< 11 U	< 1.1 U
Sodium		95000	370000	110000 J-	110000 J+	140000 J-
Thallium	2	0.016	0.2	0.02 J	0.06 J+	< 0.016 U
Tin	21900	2.8	50	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	20	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	8	13	12	11	12
Vanadium	183	11	18	12 J	11 J	14
Zinc	11000	2.2	2200	8.5 J	< 7.2 U	670
Zirconium	2.92	0.5	20	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)						
1,1,1-Trichloroethane	200	0.21	1	< 0.3 U	< 0.21 U	< 0.3 U
1,1,2-Trichloroethane	5	0.28	1	< 0.3 U	< 0.28 U	< 0.3 U
1,1-Dichloroethane	2.42	0.22	1	< 0.3 U	< 0.22 U	< 0.3 U
1,1-Dichloroethene	7	0.2	1	< 0.3 U	< 0.2 U	< 0.3 U
1,2-Dichloroethane	5	0.26	1	< 0.3 U	< 0.26 U	< 0.3 U
1,2-Dichloropropane	5	0.26	1	< 0.3 U	< 0.26 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.23	1	< 0.3 U	< 0.23 U	< 0.3 U
2-Butanone	7060	3	10	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	2.8	10	< 6.4 U	< 2.8 U	< 3 U
Benzene	5	0.23	1	< 0.3 U	< 0.23 U	< 0.3 U
Bromodichloromethane	0.12	0.26	1	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.15	1	< 0.3 U	< 0.15 U	< 0.3 U
Carbon disulfide	1040	0.25	1	< 0.3 U	< 0.25 U	< 0.3 U
Carbon tetrachloride	5	0.24	1	< 0.3 U	< 0.24 U	< 0.3 U
Chlorobenzene	100	0.24	1	< 0.3 U	< 0.24 U	< 0.3 U
Chloroform	0.19	0.79	1.7	**1.3**	**1.3**	**1.3**
Chloromethane	2.7	0.24	1	< 0.33 U	< 0.24 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.24	1	< 0.3 U	< 0.24 U	< 0.3 U
Dibromochloromethane	0.15	0.3	1	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**

Table 29 Analytical Results for Well TMMW-102, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Ethylbenzene	700	0.22	1	< 0.3 U	< 0.22 U	< 0.3 U
Methylene chloride	5	0.25	1	< 0.32 U	< 0.25 U	< 0.3 U
Naphthalene	0.14	0.27	1	**< 0.42 U**	**< 0.27 U**	**< 0.3 U**
Styrene	100	0.28	1	< 0.3 U	< 0.28 U	< 0.3 U
Tetrachloroethene	5	0.18	1	< 0.19 U	< 0.18 U	< 0.18 U
Toluene	1000	0.22	1	< 0.3 U	< 0.22 U	< 0.3 U
Total Trihalomethanes (e)	80	0.79	2.16	1.3	1.3	1.3
trans-1,2-Dichloroethene	100	0.21	1	< 0.3 U	< 0.21 U	< 0.3 U
Trichloroethene	5	0.24	1	< 0.3 U	< 0.24 U	< 0.3 U
Trichlorofluoromethane	1290	0.2	1	< 0.3 U	< 0.2 U	< 0.3 U
Vinyl chloride	2	0.21	1	< 0.3 U	< 0.21 U	< 0.3 U
Total Xylene	10000	0.6	2	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
\+ - Biased high
\- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 30 Analytical Results for Well TMMW-103, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)						
Bicarbonate Alkalinity		90	140	110	120	130
ANIONS (reported in mg/L)						
Chloride	4	170	630	**360**	**290**	**240**
Nitrate	10	0.7	22	**22**	**15**	9
Perchlorate	0.018	0.11	1.8	**0.51**	**0.29**	**0.23**
Sulfate	250	350	1300	**950**	**940**	**910**
GENERAL (reported in mg/L)						
Fluoride	4	1.3	1.3	NA	NA	1.3
Nitrite	1	0.2	0.5	< 0.5 U	< 0.5 U	< 0.5 U
Total Phosphorous		0.05	0.05	< 0.05 U	< 0.05 U	< 0.05 U
RADIONUCLIDES (reported in pCi/L)						
Alpha (Total)		4.92	31.1	< 4.92 ± 3.74 U	31.1 ± 6.09 M3	10 ± 3.52
Adjusted Gross Alpha (Total) (c)	15	-7.947	22.67	**-7.947**	**22.67**	1.13
Beta (Total)	50	5.96	26.1	< 5.96 ± 6.13 U	19.7 ± 4.61 M3	8.3 ± 3.51
Uranium 238		2.48	3.47	2.9 ± 0.601	2.82 ± 0.528 J+	3.1 ± 0.613
Uranium 234		4.41	7.31	4.89 ± 0.936	5.51 ± 0.959	5.6 ± 1.02
Thorium 230	0.042	-0.0568	0.22	< -0.0568 ± 0.0601 U	**< 0.0867 ± 0.0519 U**	**0.22 ± 0.0717**
Radium 226	5	-0.18	0.38	< 0.115 ± 0.144 U	< 0.329 ± 0.166 U	< 0.38 ± 0.244 U
Radon 222	300	194	771	**748 ± 93.3**	**411 ± 57.3**	**560 ± 70.8**
Lead 214		-3.59	57.8	48.1 ± 10.8 J-	< 17.3 ± 10.4 UJ-	< 21 ± 12.4 UJ-
Bismuth 214		4.84	61.8	35.7 ± 12.4 J-	< 22.8 ± 11.6 UJ-	< 20 ± 12.2 UJ-
Thorium 232	0.14	-0.00602	0.0234	< 0.0177 ± 0.0252 U	< 0.0174 ± 0.0127 U	NA
Radium 228	5	-0.0935	0.835	< 0.37 ± 0.271 U	< 0.466 ± 0.246 U	0.83 ± 0.303
Radium (R226+R228) (d)	5	0	0.835	**< 0**	**< 0**	0.83
Actinium 228		-4.73	33	< 15.9 ± 20.4 U	24.3 ± 10.1 J	< 33 ± 15.2 U
Thorium 228	0.11	-0.0219	0.0867	< 0.0403 ± 0.105 U	< 0.0867 ± 0.0486 U	< 0.085 ± 0.0477 U
Lead 212		-1.7	13	< -1.68 ± 7.47 U	< 9.89 ± 5.94 U	< 13 ± 8.07 U
Bismuth 212		17.5	69.4	< 56.1 ± 38.7 U	< 58 ± 36.1 U	< 68 ± 40 U
Thallium 208		0.122	8.85	< 0.134 ± 4.59 U	< 8.85 ± 5.28 U	5.9 ± 3.04 J+
Potassium 40		-3.51	160	< 37.9 ± 78 U	< 121 ± 71.3 U	< 160 ± 94.8 U
Uranium 235		0.0871	0.235	0.157 ± 0.101 J	0.0965 ± 0.0655 LT	0.17 ± 0.0958
Proactinium 234		-324	850	< -65.3 ± 506 U	< 685 ± 398 U	< 850 ± 492 U
Radium 224		-1.7	13	< -1.68 ± 7.47 U	< 9.89 ± 5.94 U	< 13 ± 8.07 U
Thorium 227		-8.18	23	< -8.18 ± 20.3 U	< 19.6 ± 11.7 U	< 23 ± 13.8 U
Thallium 234		-10.8	140	< -10.8 ± 46 U	< 121 ± 69.3 U	< 140 ± 80.7 U
SOLIDS (reported in mg/L)						
Total Dissolved Solids	1900	920	2900	**2400**	**2100**	**2000**
TOTAL METALS (reported in ug/L)						
Aluminum	50	38	360	**< 76 U**	**< 150 UJ-**	38 J+
Antimony	6	3	30	**< 15 U**	**< 30 U**	< 3 U

Table 30 Analytical Results for Well TMMW-103, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	19	27	**23**	**24**	**27**
Barium	2000	6.2	28	14 J	6.2 J-	15 J-
Beryllium	4	0.18	2	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	5	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		84000	260000	190000 J-	180000	160000
Chromium	100	2.7	16	14 J	< 5.1 U	16
Chromium VI	100	10	19	16	15	19
Cobalt	11	0.45	10	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	10	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	260	< 25 U	< 49 U	< 4.9 U
Lead	15	1.3	13	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	92	210	**130 J**	**92 J-**	**170 J+**
Magnesium	207000	55000	150000	110000 J-	100000	90000
Mercury	2	0.0029	0.2	< 0.0029 U	0.013 J+	< 0.0029 U
Molybdenum	183	11	37	15 J	< 11 U	15
Nickel	730	1	20	< 4.7 U	< 9.3 U	1 J-
Potassium		6000	19000	11000	6000 J-	15000
Selenium	50	2.7	27	< 13 U	< 27 U	< 2.7 U
Silicon		16000	20000	18000 J-	20000	20000
Silver	100	1.1	11	< 5.4 U	< 11 U	< 1.1 U
Sodium		100000	410000	330000 J-	260000 J+	250000
Thallium	2	0.016	0.2	< 0.016 U	< 0.016 U	< 0.016 U
Tin	21900	2.8	50	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	20	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	7.9	11	8.1	8.9	9.1
Vanadium	183	10	15	10 J	10 J	14
Zinc	11000	2	20	< 3.6 U	< 7.2 U	3 J-
Zirconium	2.92	0.5	20	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)						
1,1,1-Trichloroethane	200	0.21	1	< 0.3 U	< 0.21 U	< 0.3 U
1,1,2-Trichloroethane	5	0.28	1	< 0.3 U	< 0.28 U	< 0.3 U
1,1-Dichloroethane	2.42	0.22	1	< 0.3 U	< 0.22 U	< 0.3 U
1,1-Dichloroethene	7	0.2	1	< 0.3 U	< 0.2 U	< 0.3 U
1,2-Dichloroethane	5	0.26	1	< 0.3 U	< 0.26 U	< 0.3 U
1,2-Dichloropropane	5	0.26	1	< 0.3 U	< 0.26 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.23	1	< 0.3 U	< 0.23 U	< 0.3 U
2-Butanone	7060	3	10	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	2.8	10	< 6.4 U	< 2.8 U	< 3 U
Benzene	5	0.23	1	< 0.3 U	< 0.23 U	< 0.3 U
Bromodichloromethane	0.12	0.28	1	**0.46 J**	**0.4 J**	**0.42 J**
Bromoform	8.51	0.3	1	< 0.3 U	< 0.34 U	< 0.34 U

Table 30 Analytical Results for Well TMMW-103, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.15	1	< 0.3 U	< 0.15 U	< 0.3 U
Carbon disulfide	1040	0.17	1	< 0.3 U	< 0.25 U	< 0.3 U
Carbon tetrachloride	5	0.24	1	< 0.3 U	< 0.24 U	< 0.3 U
Chlorobenzene	100	0.24	1	< 0.3 U	< 0.24 U	< 0.3 U
Chloroform	0.19	0.88	4.2	**2.5**	**2.1**	**2.1**
Chloromethane	2.7	0.24	1	< 0.33 U	< 0.24 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.24	1	< 0.3 U	< 0.24 U	< 0.3 U
Dibromochloromethane	0.15	0.3	1	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.22	1	< 0.3 U	< 0.22 U	< 0.3 U
Methylene chloride	5	0.25	1	< 0.32 U	< 0.25 U	< 0.3 U
Naphthalene	0.14	0.27	1	**< 0.42 U**	**< 0.27 U**	**< 0.3 U**
Styrene	100	0.28	1	< 0.3 U	< 0.28 U	< 0.3 U
Tetrachloroethene	5	0.18	1	< 0.19 U	< 0.18 U	< 0.18 U
Toluene	1000	0.22	1	< 0.3 U	< 0.22 U	< 0.3 U
Total Trihalomethanes (e)	80	0.88	4.69	2.96	2.5	2.52
trans-1,2-Dichloroethene	100	0.21	1	< 0.3 U	< 0.21 U	< 0.3 U
Trichloroethene	5	0.24	1	< 0.3 U	< 0.24 U	< 0.3 U
Trichlorofluoromethane	1290	0.2	1	< 0.3 U	< 0.2 U	< 0.3 U
Vinyl chloride	2	0.21	1	< 0.3 U	< 0.21 U	< 0.3 U
Total Xylene	10000	0.6	2	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 31 Analytical Results for Well TMMW-104, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		94	130	120	110	110	130
ANIONS (reported in mg/L)							
Chloride	4	130	230	**160**	**150**	**130**	**140**
Nitrate	10	0.59	8.9	3.4	8.6	7.9	8.9
Perchlorate	0.018	0.027	0.45	**0.26**	**0.073**	**0.03**	**0.027**
Sulfate	250	630	1700	**820**	**1200**	**1200**	**910**
GENERAL (reported in mg/L)							
Fluoride	4	2	2	NA	NA	NA	2 J-
Nitrite	1	0.2	0.5	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Total Phosphorous		0.05	0.05	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		1.83	14.5	7.8 ± 3.06 M3	12.6 ± 6.43 M3	14.5 ± 4.15 M3	7.4 ± 3.01
Adjusted Gross Alpha (Total) (c)	15	-9.881	3.834	**-4.72**	2.18	2.88	**-3.8**
Beta (Total)	50	4.09	18.2	11.5 ± 3.76 M3	< 4.09 ± 12.3 U	10.5 ± 4.72 M3	10 ± 3.81
Uranium 238		2.07	4.61	4.61 ± 0.904	3.73 ± 0.775	3.96 ± 0.743 J+	3.8 ± 0.688
Uranium 234		4.07	7.66	7.66 ± 1.42	6.47 ± 1.24	7.45 ± 1.29	7.2 ± 1.22
Thorium 230	0.042	-0.0615	0.177	< 0.00641 ± 0.0602 U	< -0.0349 ± 0.0459 U	**< 0.177 ± 0.0937 U**	**< 0.099 ± 0.0552 U**
Radium 226	5	-0.472	0.308	< 0.204 ± 0.259 U	< 0.072 ± 0.177 U	0.279 ± 0.205 LT	< 0.19 ± 0.163 U
Radon 222	300	329	872	**812 ± 101**	**554 ± 72**	**712 ± 91**	**530 ± 66.1**
Lead 214		-4.31	30.3	< -1.86 ± 9.39 UJ-	30.3 ± 9.54 J-	< 16 ± 9.7 UJ-	9.7 ± 6.12 J
Bismuth 214		-5.86	26.4	< -1.7 ± 11.4 UJ-	23.7 ± 14.2 J-	< 25.9 ± 11.3 UJ-	16 ± 5.82 J-
Thorium 232	0.14	-0.00391	0.0616	< -0.00391 ± 0.0208 U	< -0.00248 ± 0.0122 U	< 0.0514 ± 0.0234 U	NA
Radium 228	5	0.149	15.2	< 0.534 ± 0.341 U	< 0.398 ± 0.306 U	0.452 ± 0.232 LT	0.46 ± 0.235
Radium (R226+R228) (d)	5	0	0.731	**< 0**	**< 0**	0.731	0.46
Actinium 228		-1.06	21.6	< 1.96 ± 16.9 U	15.4 ± 9.76 NQ	18.8 ± 9.6 J	< 17 ± 10 U
Thorium 228	0.11	-0.0402	0.173	< -0.0229 ± 0.0742 U	< -0.0402 ± 0.0506 U	**< 0.173 ± 0.101 U**	< 0.085 ± 0.0457 U
Lead 212		-3.77	13.3	< 3.02 ± 7.52 U	< -0.95 ± 6.76 U	< 13.3 ± 8.08 U	< 7 ± 4.36 U
Bismuth 212		-2.58	69	< 53 ± 34 U	< 32.2 ± 34.1 U	< 59.6 ± 35.5 U	< 69 ± 41.1 U
Thallium 208		-0.217	11.7	< 3.75 ± 2.51 U	< 1.13 ± 4.55 U	< 11.7 ± 7.01 U	< 3.8 ± 2.41 U
Potassium 40		-73.7	289	< -42.5 ± 69.9 U	< 41.9 ± 69.4 U	< 114 ± 68.8 U	< 160 ± 93 U
Uranium 235		0.105	0.245	0.245 ± 0.13	0.224 ± 0.128	0.211 ± 0.11	0.2 ± 0.0941
Proactinium 234		-193	770	< -193 ± 716 U	< 251 ± 400 U	< 622 ± 391 U	< 770 ± 440 U
Radium 224		-3.77	13.3	< 3.02 ± 7.52 U	< -0.95 ± 6.76 U	< 13.3 ± 8.08 U	< 7 ± 4.36 U
Thorium 227		-44.8	29.6	< 10.7 ± 12.6 U	< -2.8 ± 11.5 U	< 29.6 ± 17.8 U	< 24 ± 14.2 U
Thallium 234		-43.2	210	< -43.2 ± 114 U	< 37.2 ± 70.6 U	< 210 ± 127 U	< 65 ± 40 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	1200	2600	1600	**2400**	**2300**	1900
TOTAL METALS (reported in ug/L)							
Aluminum	50	27	500	**< 500 U**	**< 76 U**	**< 150 UJ-**	**74 J+**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U

Table 31 Analytical Results for Well TMMW-104, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Arsenic	10	17	39	**39**	**17**	**17**	**20**
Barium	2000	7.4	18	9.4 J	9.6 J	7.4 J-	11 J-
Beryllium	4	0.13	2	1.4 J	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		87000	270000	150000	200000 J-	210000	170000
Chromium	100	1.6	50	< 50 U	< 2.6 U	< 5.1 U	2.2 J-
Chromium VI	100	3	12	11	< 3 U	< 10 U	< 10 U
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.56	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	500	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1.2	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	66	150	**110 J+**	**88 J**	66 J-	**120 J+**
Magnesium	207000	41000	120000	90000	100000 J-	100000	80000
Mercury	2	0.0029	0.2	< 0.2 U	< 0.0029 U	0.012 J+	< 0.0029 U
Molybdenum	183	5.4	38	27 J	< 5.4 U	< 11 U	14
Nickel	730	0.93	100	< 100 U	< 4.7 U	< 9.3 U	< 0.93 U
Potassium		5800	14000	8000 J	8700	5800 J-	13000 J+
Selenium	50	2.8	27	< 25 U	< 13 U	< 27 U	2.8 J-
Silicon		11000	25000	25000	14000 J-	15000	14000
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		190000	280000	190000 J	270000 J-	260000 J+	240000 J-
Thallium	2	0.016	0.2	< 0.2 U	< 0.016 U	< 0.016 U	< 0.016 U
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	7	13	13	11	11	11
Vanadium	183	9.8	15	15 J	9.8 J	11 J	12
Zinc	11000	0.65	20	10 J	< 3.6 U	< 7.2 U	< 0.72 U
Zirconium	2.92	0.5	20	**8.9 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
1,1,2-Trichloroethane	5	0.28	1	< 1 U	< 0.3 U	< 0.28 U	< 0.3 U
1,1-Dichloroethane	2.42	0.22	1	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
1,1-Dichloroethene	7	0.2	1	< 1 U	< 0.3 U	< 0.2 U	< 0.3 U
1,2-Dichloroethane	5	0.26	1	< 1 U	< 0.3 U	< 0.26 U	< 0.3 U
1,2-Dichloropropane	5	0.26	1	< 1 U	< 0.3 U	< 0.26 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.23	1	< 1 U	< 0.3 U	< 0.23 U	< 0.3 U
2-Butanone	7060	3	10	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	2.8	10	< 10 U	< 6.4 U	< 2.8 U	< 3 U
Benzene	5	0.23	1	< 1 U	< 0.3 U	< 0.23 U	< 0.3 U
Bromodichloromethane	0.12	0.19	1.3	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U

Table 31 Analytical Results for Well TMMW-104, Upgradient
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Bromomethane	8.66	0.15	1	< 1 U	< 0.3 U	< 0.15 U	< 0.3 U
Carbon disulfide	1040	0.25	1	< 1 U	< 0.3 U	< 0.25 U	< 0.3 U
Carbon tetrachloride	5	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Chlorobenzene	100	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Chloroform	0.19	0.34	9.5	**8**	**9.5**	**7.8**	**7.6**
Chloromethane	2.7	0.24	1	< 1 U	< 0.33 U	< 0.24 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Dibromochloromethane	0.15	0.25	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.22	1	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
Methylene chloride	5	0.25	1	< 1 U	< 0.32 U	< 0.25 U	< 0.3 U
Naphthalene	0.14	0.27	1	**< 1 U**	**< 0.42 U**	**< 0.27 U**	**< 0.3 U**
Styrene	100	0.28	1	< 1 U	< 0.3 U	< 0.28 U	< 0.3 U
Tetrachloroethene	5	0.18	1	< 1 U	< 0.19 U	< 0.18 U	< 0.18 U
Toluene	1000	0.22	1	< 1 U	< 0.3 U	< 0.22 U	< 0.3 U
Total Trihalomethanes (e)	80	0	10.55	8	9.5	7.8	7.6
trans-1,2-Dichloroethene	100	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
Trichloroethene	5	0.24	1	< 1 U	< 0.3 U	< 0.24 U	< 0.3 U
Trichlorofluoromethane	1290	0.2	1	< 1 U	< 0.3 U	< 0.2 U	< 0.3 U
Vinyl chloride	2	0.21	1	< 1 U	< 0.3 U	< 0.21 U	< 0.3 U
Total Xylene	10000	0.6	2	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
\+ - Biased high
\- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 32 Analytical Results for Well AA-01, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		83	110	90	83	85	99 J
ANIONS (reported in mg/L)							
Chloride	4	700	1100	**790**	**840**	**840**	**1100 J**
Nitrate	10	7.2	11	10	**11**	**11**	7.2 J
Perchlorate	0.018	2	19	**2.3**	**2.1**	**2.2**	**2 J**
Sulfate	250	1400	2000	**1700**	**1700**	**1700**	**2000 J**
GENERAL (reported in mg/L)							
Fluoride	4	2.3	2.3	NA	NA	NA	2.3 J
Nitrite	1	0.15	0.5	< 0.5 U	< 0.15 U	< 0.5 U	< 0.5 U
Total Phosphorous		0.015	0.05	< 0.05 U	< 0.015 U	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3600	4300	**3600**	**4300**	**4200**	**4300**
TOTAL METALS (reported in ug/L)							
Aluminum	50	91	500	**< 500 U**	**170 J**	**< 150 UJ-**	**91 J+**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	58	95	**95**	**92**	**93**	**92**
Barium	2000	7.7	20	13 J	14 J	7.7 J-	19 J-
Beryllium	4	0.22	10	2.2 J	< 0.88 U	< 1.8 U	0.47 J+
Cadmium	5	0.48	25	**< 25 U**	< 1.6 U	< 3.3 U	0.64 J+
Calcium		490000	550000	510000	490000 J-	500000	540000 J
Chromium	100	4.6	50	4.6 J	11 J	< 5.1 U	16 J-
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	25	500	**< 500 U**	< 25 U	< 49 U	26 J-
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	170	290	**210 J+**	**210 J**	**170**	**290 J+**
Magnesium	207000	120000	230000	200000	**210000 J-**	**220000**	**230000 J**
Mercury	2	0.0029	0.2	< 0.2 U	< 0.0029 U	0.012 J+	0.0079 J+
Molybdenum	183	7.9	50	< 50 U	7.9 J	< 11 U	16
Nickel	730	1.9	100	< 100 U	< 4.7 U	< 9.3 U	4.5 J-
Potassium		5200	16000	8200 J	8500	5200 J-	16000 J+
Selenium	50	3.7	27	< 25 U	< 13 U	< 27 U	10
Silicon		38000	42000	41000	41000 J-	41000	42000

Table 32 Analytical Results for Well AA-01, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		320000	390000	360000 J	390000 J-	370000 J+	360000 J
Thallium	2	0.016	0.2	< 0.2 U	< 0.016 U	< 0.016 U	< 0.016 U
Tin	21900	3.6	250	< 250 U	< 14 U	< 28 U	3.7 J-
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	29	68	**35**	29	29	**31**
Vanadium	183	27	45	39 J	38 J	33 J	45 J-
Zinc	11000	1.5	130	< 100 U	< 3.6 U	99 J-	5.8 J-
Zirconium	2.92	0.5	100	**9.9 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	1.9	4	2.7	1.9	4	3.6
1,2-Dichloroethane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	20	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	20	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	20	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	2	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	2	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	5.6	8.9	**7.8**	**6.8**	**8.8**	**8.9**
Chloromethane	2.7	0.3	2	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	2	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	2	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	2	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 32 Analytical Results for Well AA-01, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	44	93	**67**	**44**	**72**	**60**
Toluene	1000	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	5.6	8.9	7.8	NA	8.8	8.9
trans-1,2-Dichloroethene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	0.56	0.41 J	< 0.3 U	0.5 J	0.39 J
Trichlorofluoromethane	1290	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	2	4	< 2 U	< 2 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 33 Analytical Results for Well AA-09, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		61	69	63	61	61	66
ANIONS (reported in mg/L)							
Chloride	4	940	1500	**1200**	**1300**	**1300**	**1400**
Nitrate	10	11	21	**13**	**14**	**14**	**15**
Perchlorate	0.018	3.3	8.4	**7.9**	**8.3**	**3.3**	**8.1**
Sulfate	250	2400	2800	**2400**	**2400**	**2400**	**2400**
GENERAL (reported in mg/L)							
Fluoride	4	2.1	2.1	NA	NA	NA	2.1
Nitrite	1	0.5	1	< 1 U	< 0.5 U	< 1 U	< 0.5 U
Total Phosphorous		0.05	0.05	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5200	7500	**6100**	**6400**	**6300**	**6200**
TOTAL METALS (reported in ug/L)							
Aluminum	50	37	1200	**190 J**	**310 J**	**< 150 UJ-**	**150**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	73	100	**83**	**73**	**75**	**73**
Barium	2000	3.5	27	10 J	12 J	3.5 J-	13 J-
Beryllium	4	0.39	10	2.4 J	< 0.88 U	< 1.8 U	0.52 J+
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		500000	660000	610000	620000 J-	600000	660000
Chromium	100	60	110	95	98	99 J-	**110 J-**
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.68	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	23	890	160 J	200 J	< 49 U	76 J-
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	170	300	**210 J+**	**210 J**	**170**	**290 J+**
Magnesium	207000	250000	340000	**280000**	**280000 J-**	**280000**	**280000**
Mercury	2	0.0029	0.2	< 0.2 U	< 0.0029 U	< 0.003 U	< 0.0029 U
Molybdenum	183	34	57	47 J	48 J	34 J-	57
Nickel	730	1.1	100	< 100 U	< 4.7 U	< 9.3 U	1.1 J-
Potassium		25000	56000	32000 J	32000	25000	48000 J+
Selenium	50	27	76	33	43	< 27 U	41
Silicon		31000	37000	35000	35000 J-	34000	36000

Table 33 Analytical Results for Well AA-09, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		690000	950000	700000 J	730000 J-	760000 J+	710000
Thallium	2	0.07	0.21	0.11 J	0.08 J	0.08 J+	0.08 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	2.9 J	< 2.7 U	< 0.27 U
Uranium	30	14	21	17	16	15	15
Vanadium	183	28	37	33 J	28 J	36 J	36 J-
Zinc	11000	0.72	100	< 100 U	24 J	9.2 J-	< 0.72 U
Zirconium	2.92	0.5	20	**14 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.38	4	0.73 J	0.63 J	0.63 J	0.6 J
1,2-Dichloroethane	5	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	40	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	40	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	40	< 10 U	13	< 3 U	< 3 U
Benzene	5	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	4	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	4	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.58	1.3	0.84 J	0.58 J	0.72 J	0.61 J
Chlorobenzene	100	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	50	94	**74**	**75**	**64**	**70**
Chloromethane	2.7	0.3	4	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	4	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	4	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	4	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 33 Analytical Results for Well AA-09, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	4.2	14	**10**	**11**	**8.6**	**8**
Toluene	1000	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	50	94	74	75	64	70
trans-1,2-Dichloroethene	100	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.38	4	0.61 J	0.57 J	0.52 J	0.47 J
Trichlorofluoromethane	1290	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	4	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	4	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 34 Analytical Results for Well AA-20, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)					
Bicarbonate Alkalinity		77	97	89 J	97 J
ANIONS (reported in mg/L)					
Chloride	4	1100	1100	**1100 J**	**1100 J**
Nitrate	10	9.7	19	9.8 J	9.7 J
Perchlorate	0.018	4.7	6.6	**4.8 J**	**4.9 J**
Sulfate	250	2300	2900	**2900 J**	**2800 J**
GENERAL (reported in mg/L)					
Fluoride	4	1.1	1.1	NA	1.1 J
Nitrite	1	0.5	1	< 0.5 U	< 1 U
Total Phosphorous		0.05	0.05	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)					
Total Dissolved Solids	1900	5500	6300	**6100**	**5900**
TOTAL METALS (reported in ug/L)					
Aluminum	50	15	500	**250 J+**	< 15 U
Antimony	6	3	100	**< 30 U**	< 3 U
Arsenic	10	95	110	**100**	**100**
Barium	2000	1.9	9.2	< 1.9 U	8.4 J-
Beryllium	4	0.21	10	2.3 J+	0.21 J+
Cadmium	5	0.33	25	< 3.3 U	< 0.33 U
Calcium		590000	630000	590000 J	600000 J
Chromium	100	44	73	44 J-	45 J-
Cobalt	11	0.45	50	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 9.7 U	< 0.97 U
Iron	300	11	500	< 49 U	11 J+
Lead	15	1.3	15	< 13 U	< 1.3 U
Lithium	73	270	430	**270 J+**	**430 J+**
Magnesium	207000	230000	260000	**250000 J**	**240000 J**
Mercury	2	0.0029	0.2	< 0.003 U	< 0.0029 U
Molybdenum	183	210	540	**530**	**540**
Nickel	730	1.9	100	< 9.3 U	1.9 J-
Potassium		36000	61000	36000 J	61000 J+
Selenium	50	29	92	**71**	**89**

Table 34 Analytical Results for Well AA-20, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2012	1st SMSTR 2013
Silicon		34000	39000	36000	36000
Silver	100	0.83	50	< 11 U	< 1.1 U
Sodium		670000	760000	760000 J	670000 J
Thallium	2	0.23	0.34	0.26	0.26
Tin	21900	2.8	250	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 2.7 U	< 0.27 U
Uranium	30	18	21	18	19
Vanadium	183	33	41	36 J-	39
Zinc	11000	0.78	240	< 7.2 U	0.78 J-
Zirconium	2.92	0.5	20	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)					
1,1,1-Trichloroethane	200	0.3	4	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	4	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.17	4	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.2	4	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	4	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	4	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	4	< 0.3 U	< 0.3 U
2-Butanone	7060	3	40	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3.4	40	< 3.4 UJ	< 3.4 U
Acetone	21800	3	40	< 3 U	< 3 U
Benzene	5	0.3	4	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	4	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.34	4	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	4	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	4	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.77	1.4	0.83 J	0.77 J
Chlorobenzene	100	0.3	4	< 0.3 U	< 0.3 U
Chloroform	0.19	68	110	**68**	**69**
Chloromethane	2.7	0.3	4	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	4	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	4	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	4	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	3.3	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	4	**< 0.3 U**	**< 0.3 U**

Table 34 Analytical Results for Well AA-20, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2012	1st SMSTR 2013
Styrene	100	0.3	4	< 0.3 U	< 0.3 U
Tetrachloroethene	5	5.2	9.3	**5.2**	**5.7**
Toluene	1000	0.3	4	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	68	110	68	69
trans-1,2-Dichloroethene	100	0.3	4	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	4	0.35 J	< 0.3 U
Trichlorofluoromethane	1290	0.3	4	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	4	< 0.3 U	< 0.3 U
Total Xylene	10000	2	4	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 35 Analytical Results for Well AA-27, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		130	140	130	130	130	140 J
ANIONS (reported in mg/L)							
Chloride	4	380	550	**380**	**390**	**400**	**550 J**
Nitrate	10	12	14	**12**	**12**	**14**	**14 J**
Perchlorate	0.018	0.23	0.29	**0.26**	**0.29**	**0.28**	**0.23 J**
Sulfate	250	2200	2700	**2200**	**2300**	**2300**	**2700 J**
GENERAL (reported in mg/L)							
Fluoride	4	2.3	2.3	NA	NA	NA	2.3 J
Nitrite	1	0.5	0.5	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ-
Total Phosphorous		0.05	0.078	< 0.05 U	0.078	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4000	4500	**4300**	**4500**	**4400**	**4400**
TOTAL METALS (reported in ug/L)							
Aluminum	50	26	500	**< 500 U**	**100 J**	**< 150 UJ-**	**190**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	41	46	**46**	**43**	**43**	**45**
Barium	2000	6.9	13	7.3 J	8.8 J	6.9 J-	13 J-
Beryllium	4	0.23	10	1.9 J	< 0.88 U	< 1.8 U	0.23 J+
Cadmium	5	0.37	25	**< 25 U**	< 1.6 U	< 3.3 U	0.37 J-
Calcium		530000	560000	540000	530000 J-	530000	540000 J
Chromium	100	16	23	18 J	22 J	18 J-	22
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	39	500	**< 500 U**	39 J	< 49 U	89 J-
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	180	300	**220 J+**	**220 J**	**180**	**300 J+**
Magnesium	207000	170000	190000	190000	180000 J-	180000	180000 J
Mercury	2	0.0029	0.2	0.0049 J	< 0.0029 U	< 0.003 U	< 0.0029 U
Molybdenum	183	21	34	27 J	21 J	23 J-	34
Nickel	730	2.1	100	< 100 U	< 4.7 U	< 9.3 U	2.5 J-
Potassium		5500	14000	8900 J	9400	5500 J-	14000 J+
Selenium	50	6.8	27	< 25 U	15 J	< 27 U	6.9
Silicon		37000	41000	40000	41000 J-	39000	38000

Table 35 Analytical Results for Well AA-27, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		390000	430000	410000 J	430000 J-	410000 J+	400000 J-
Thallium	2	0.016	0.2	0.03 J	< 0.016 U	< 0.016 U	< 0.016 U
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	59	73	**73**	**73**	**63**	**59**
Vanadium	183	12	15	12 J	14 J	13 J	14
Zinc	11000	0.72	160	< 100 U	< 3.6 U	160 J-	< 0.72 U
Zirconium	2.92	0.5	20	**11 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	10	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	10	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	1.3	2	**1.9**	**1.8**	**1.8**	**2**
Chloromethane	2.7	0.3	1	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	1	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	1	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 35 Analytical Results for Well AA-27, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	0.18	1	< 1 U	< 0.19 U	< 0.18 U	< 0.18 U
Toluene	1000	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	1.3	2	1.9	1.8	1.8	2
trans-1,2-Dichloroethene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	2	NA	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 36 Analytical Results for Well AA-UW1, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		40	91	87	85	85	91
ANIONS (reported in mg/L)							
Chloride	4	380	440	**380**	**380**	**400**	**410**
Nitrate	10	1.2	5.4	3.9	4.6	1.2	5.1
Perchlorate	0.018	0.6	0.81	**0.75**	**0.61**	**0.73**	**0.6**
Sulfate	250	2100	2300	**2100**	**2100**	**2300**	**2200**
GENERAL (reported in mg/L)							
Fluoride	4	1.5	1.5	NA	NA	NA	1.5
Nitrite	1	0.5	0.5	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ-
Total Phosphorous		0.05	0.082	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3900	4200	**4000**	**4100**	**4200**	**4100**
TOTAL METALS (reported in ug/L)							
Aluminum	50	40	500	**< 500 U**	**< 76 U**	**< 150 UJ-**	**76 J+**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	58	110	**110**	**62**	**100**	**58**
Barium	2000	7.8	23	18 J	8.4 J	13 J-	11 J-
Beryllium	4	0.23	10	1.7 J	< 0.88 U	< 1.8 U	0.23 J-
Cadmium	5	0.34	25	**< 25 U**	< 1.6 U	< 3.3 U	0.47 J-
Calcium		450000	620000	460000	570000	450000	620000
Chromium	100	0.84	50	21 J	< 2.6 U	10 J-	0.84 J-
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	500	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	110	240	**150 J+**	**170**	**110**	**240 J+**
Magnesium	207000	200000	230000	**230000**	200000	**220000**	200000
Mercury	2	0.0029	0.2	0.0036 J	< 0.0029 U	0.016 J+	< 0.0029 U
Molybdenum	183	16	40	33 J	30 J	16 J-	39
Nickel	730	2.9	100	< 100 U	< 4.7 U	< 9.3 U	3.1 J-
Potassium		5600	13000	9600 J	6500	5600 J-	11000 J+
Selenium	50	5	27	< 25 U	< 13 U	< 27 U	12
Silicon		39000	43000	43000	41000	42000	39000

Table 36 Analytical Results for Well AA-UW1, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		240000	370000	370000 J	270000	350000 J+	240000 J-
Thallium	2	0.016	0.2	< 0.2 U	< 0.016 U	< 0.016 U	< 0.016 U
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	30	52	30	**51**	**31**	**50**
Vanadium	183	36	39	39 J	38 J	36 J	39
Zinc	11000	0.72	100	< 100 U	< 3.6 U	7.9 J-	< 0.72 U
Zirconium	2.92	0.5	100	**11 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.69	1.3	1.3	0.69 J	1.2	0.83 J
1,1-Dichloroethene	7	3.6	8.4	**8.2**	3.6	**8.4**	5.8
1,2-Dichloroethane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	20	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	20	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	20	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	2	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	2	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	0.82	1.4	**1.4**	**0.82 J**	**1.2**	**0.93 J**
Chloromethane	2.7	0.3	2	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	2	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	2	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	2	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 36 Analytical Results for Well AA-UW1, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	27	61	**38**	**38**	**30**	**55**
Toluene	1000	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	0.82	1.4	1.4	0.82	1.2	0.93
trans-1,2-Dichloroethene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	0.62	0.62 J	0.3 J	0.57 J	0.44 J
Trichlorofluoromethane	1290	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	4	NA	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 37 Analytical Results for Well DBMW-1, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		68	74	71	70	70	74
ANIONS (reported in mg/L)							
Chloride	4	950	1100	**980**	**990**	**1000**	**1100**
Nitrate	10	8.2	9.6	8.2	8.8	9	9.6
Perchlorate	0.018	7.5	8.9	**8.9**	**7.5**	**7.5**	**7.7**
Sulfate	250	2600	2800	**2600**	**2600**	**2600**	**2700**
GENERAL (reported in mg/L)							
Fluoride	4	1.4	1.4	NA	NA	NA	1.4
Nitrite	1	0.5	1	< 1 U	< 0.5 U	< 0.5 U	< 1 U
Total Phosphorous		0.05	0.064	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5500	6000	**5600**	**6000**	**6000**	**6000**
TOTAL METALS (reported in ug/L)							
Aluminum	50	15	500	**< 500 U**	**< 76 U**	**< 150 UJ-**	< 15 U
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	96	100	**97**	**96**	**97**	**100**
Barium	2000	1.9	12	7.2 J	6.5 J	< 1.9 U	9.5 J-
Beryllium	4	0.21	10	1.8 J	< 0.88 U	< 1.8 U	0.21 J+
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		610000	680000	620000	620000 J-	610000	650000
Chromium	100	35	48	43 J	48 J	35 J-	47
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	500	**< 500 U**	< 25 U	< 49 U	< 4.9 U
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	350	550	**410 J+**	**410 J**	**350**	**550 J+**
Magnesium	207000	260000	270000	**270000**	**270000 J-**	**270000**	**260000**
Mercury	2	0.0029	0.2	< 0.2 U	< 0.0029 U	< 0.003 U	< 0.0029 U
Molybdenum	183	740	820	**780**	**820**	**800**	**790**
Nickel	730	1.3	100	< 100 U	< 4.7 U	< 9.3 U	1.3 J-
Potassium		50000	81000	62000 J	65000	50000	81000 J+
Selenium	50	75	100	**83**	**100**	**75**	**100**
Silicon		32000	36000	35000	36000 J-	35000	33000

Table 37 Analytical Results for Well DBMW-1, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		610000	660000	620000 J	660000 J-	650000 J+	610000 J-
Thallium	2	0.07	0.2	0.08 J	0.07 J	0.09 J+	0.07 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	9	9.5	9.4	9.3	9.2	9
Vanadium	183	26	34	29 J	32 J	26 J	31
Zinc	11000	0.88	250	< 100 U	< 3.6 U	7.9 J-	0.88 J-
Zirconium	2.92	0.5	100	**12 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	50	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	50	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	50	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	5	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	33	64	**40**	**56**	**33**	**55**
Chloromethane	2.7	0.3	5	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	5	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	5	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	5	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 37 Analytical Results for Well DBMW-1, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	0.18	5	< 1 U	< 0.19 U	< 0.18 U	< 0.18 U
Toluene	1000	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	33	64	40	56	33	55
trans-1,2-Dichloroethene	100	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	5	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	10	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 38 Analytical Results for Well DBMW-3, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		60	75	66	65	75	71 J
ANIONS (reported in mg/L)							
Chloride	4	1500	2100	**1800**	**1900**	**2100**	**2000 J**
Nitrate	10	13	15	**13**	**14**	**13**	**14 J**
Perchlorate	0.018	8.1	10	**9.6**	**9.4**	**9.7**	**9.7 J**
Sulfate	250	3200	4300	**3500**	**3700**	**4300**	**3800 J**
GENERAL (reported in mg/L)							
Fluoride	4	1.1	1.1	NA	NA	NA	1.1 J
Nitrite	1	0.5	1	< 1 U	< 1 U	< 1 U	< 1 U
Total Phosphorous		0.05	0.21	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	7500	10000	**8000**	**9000**	**10000**	**9000**
TOTAL METALS (reported in ug/L)							
Aluminum	50	15	2200	**< 500 U**	**160 J**	**< 150 UJ-**	< 15 U
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	91	100	**97**	**94**	**91**	**100**
Barium	2000	1.9	32	5.8 J	6.3 J	< 1.9 U	8.2 J-
Beryllium	4	0.18	10	2.3 J	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	0.33 J-
Calcium		550000	650000	580000	560000 J-	560000	600000 J
Chromium	100	53	66	60	64	66 J-	59
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	2700	**< 500 U**	96 J	< 49 U	< 4.9 U
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	540	730	**560 J+**	**590 J**	**696**	**730 J+**
Magnesium	207000	390000	550000	**470000**	**470000 J-**	**550000**	**450000 J**
Mercury	2	0.0029	0.2	< 0.2 U	< 0.0029 U	< 0.003 U	< 0.0029 U
Molybdenum	183	1200	2600	**2200**	**2200**	**2600**	**2000**
Nickel	730	0.93	100	< 100 U	< 4.7 U	< 9.3 U	< 0.93 U
Potassium		140000	190000	160000 J	170000	190000	190000 J+
Selenium	50	110	220	**180**	**200**	**220**	**210**
Silicon		25000	32000	31000	32000 J-	30000	29000

Table 38 Analytical Results for Well DBMW-3, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		960000	1500000	1100000 J	1300000 J-	1500000 J+	1200000 J-
Thallium	2	0.24	0.36	0.27 J	0.26	0.33	0.24
Tin	21900	6.8	250	< 250 U	< 14 U	< 28 U	6.8 J-
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	7.4	9	7.8	7.8	9	7.8
Vanadium	183	32	42	32 J	36 J	36 J	32
Zinc	11000	2.5	140	7.9 J	< 3.6 U	120 J-	2.5 J-
Zirconium	2.92	0.5	15	**15 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	10	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	10	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.22	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	46	59	**56**	**50**	**47**	**46**
Chloromethane	2.7	0.3	1	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	1	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	1	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 38 Analytical Results for Well DBMW-3, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	0.18	1	< 1 U	< 0.19 U	< 0.18 U	< 0.18 U
Toluene	1000	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	46	59	56	50	47	46
trans-1,2-Dichloroethene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	2	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 39 Analytical Results for Well DBMW-4, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		88	100	88	88	88	94
ANIONS (reported in mg/L)							
Chloride	4	890	1100	**940**	**920**	**950**	**1100**
Nitrate	10	22	25	**22**	**22**	**22**	**23**
Perchlorate	0.018	4.3	5.3	**4.6**	**4.4**	**4.6**	**5.3**
Sulfate	250	2300	2600	**2500**	**2300**	**2400**	**2400**
GENERAL (reported in mg/L)							
Fluoride	4	0.71	0.71	NA	NA	NA	0.71
Nitrite	1	0.5	1	< 1 U	< 0.5 U	< 0.5 UJ-	< 0.5 U
Total Phosphorous		0.05	0.1	0.053	< 0.05 U	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5100	5700	**5300**	**5700**	**5700**	**5600**
TOTAL METALS (reported in ug/L)							
Aluminum	50	49	500	**< 500 U**	**< 76 U**	**< 150 U**	49 J+
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	75	100	**99**	**89**	**90**	**94**
Barium	2000	1.9	18	7.2 J	9 J	< 1.9 U	10 J-
Beryllium	4	0.18	10	2.1 J	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.47	25	**< 25 U**	< 1.6 U	< 3.3 U	0.47 J-
Calcium		600000	650000	630000	630000	610000	650000
Chromium	100	55	69	65	68	57 J-	69
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	8.1	500	58 J	110 J	< 49 U	8.1 J-
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	280	450	**340 J+**	**350**	**280 J+**	**450 J+**
Magnesium	207000	240000	250000	**250000**	**250000**	**250000**	**240000**
Mercury	2	0.0029	0.2	< 0.2 U	< 0.0029 U	< 0.003 U	< 0.0029 U
Molybdenum	183	66	80	80	77	66 J-	80
Nickel	730	1.9	100	< 100 U	< 4.7 U	< 9.3 U	1.9 J-
Potassium		79000	120000	95000 J	97000	79000	120000 J+
Selenium	50	13	27	16 J	< 13 U	< 27 U	24
Silicon		32000	37000	34000	37000	34000	33000

Table 39 Analytical Results for Well DBMW-4, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		570000	630000	600000 J	610000	580000	570000 J-
Thallium	2	0.2	0.57	0.46 J	0.42	0.38	0.38
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	22	28	24	26	22	24
Vanadium	183	27	48	44 J	42 J	40 J-	42
Zinc	11000	3.6	100	< 100 U	< 3.6 U	< 7.2 U	5.1 J-
Zirconium	2.92	0.5	100	**13 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	20	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	20	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	20	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	2	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	2	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.75	1.5	1.5	0.75 J	1.5	1.2
Chlorobenzene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	65	79	**74**	**65**	**79**	**71**
Chloromethane	2.7	0.3	2	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	2	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	2	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	2	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 39 Analytical Results for Well DBMW-4, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	2.5	3.9	3.8	2.5	3.2	3.2
Toluene	1000	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	0	79	74	65	79	71
trans-1,2-Dichloroethene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	10	< 2 U	< 0.6 U	NA	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 40 Analytical Results for Well DBMW-5, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		78	82	80	78	79	82
ANIONS (reported in mg/L)							
Chloride	4	1100	1200	**1100**	**1100**	**1100**	**1200**
Nitrate	10	22	27	**22**	**22**	**22**	**22**
Perchlorate	0.018	4	6	**5**	**5.1**	**5.4**	**6**
Sulfate	250	2000	2300	**2100**	**2000**	**2100**	**2100**
GENERAL (reported in mg/L)							
Fluoride	4	0.62	0.62	NA	NA	NA	0.62
Nitrite	1	0.5	1	< 1 U	< 0.5 U	< 0.5 UJ-	< 0.5 U
Total Phosphorous		0.05	0.097	0.062	< 0.05 U	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5000	5500	**5000**	**5500**	**5400**	**5300**
TOTAL METALS (reported in ug/L)							
Aluminum	50	29	380	**140 J**	**130 J**	**< 150 U**	29 J+
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	110	120	**120**	**120**	**110**	**120**
Barium	2000	1.9	8.8	6.4 J	4.7 J	< 1.9 U	8.4 J-
Beryllium	4	0.18	10	2.3 J	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		660000	710000	710000	690000	690000	710000
Chromium	100	63	85	78	78	77 J-	85
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	4.9	600	290 J	**400 J**	< 49 U	< 4.9 U
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	300	460	**350 J+**	**360**	**300 J+**	**460 J+**
Magnesium	207000	230000	250000	**250000**	**240000**	**240000**	**240000**
Mercury	2	0.0029	0.2	< 0.2 U	< 0.0029 U	< 0.003 U	< 0.0029 U
Molybdenum	183	33	45	39 J	37 J	33 J-	45
Nickel	730	1.5	100	< 100 U	< 4.7 U	< 9.3 U	1.5 J-
Potassium		57000	88000	78000 J	74000	57000	88000 J+
Selenium	50	13	27	14 J	< 13 U	< 27 U	16
Silicon		29000	32000	31000	32000	30000	29000

Table 40 Analytical Results for Well DBMW-5, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		460000	500000	480000 J	490000	470000	460000 J-
Thallium	2	0.19	0.32	0.3 J	0.26	0.19 J+	0.23
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	23	25	25	24	23	24
Vanadium	183	12	17	15 J	14 J	12 J-	15
Zinc	11000	3.6	100	< 100 U	< 3.6 U	< 7.2 U	7.2 J-
Zirconium	2.92	0.5	100	**13 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	20	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	20	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	20	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	2	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	2	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.7	1.2	1.2	0.7 J	0.91 J	0.94 J
Chlorobenzene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	60	71	**65**	**62**	**71**	**66**
Chloromethane	2.7	0.3	2	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	2	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	2	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	2	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 40 Analytical Results for Well DBMW-5, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	1.3	1.8	1.8	1.4	1.3	1.7
Toluene	1000	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	0	71	65	62	71	66
trans-1,2-Dichloroethene	100	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	2	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	10	< 2 U	< 0.6 U	NA	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 41 Analytical Results for Well PC-024, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		74	100	87	84 J	87	98
ANIONS (reported in mg/L)							
Chloride	4	2700	4800	**4000 J**	**3800 J**	**4000**	**3500**
Nitrate	10	12	47	**41 J**	**42 J**	**42**	**36**
Perchlorate	0.018	15	36	**30 J**	**36 J**	**36**	**36**
Sulfate	250	1900	3300	**2400 J**	**2400 J**	**2600**	**2700**
GENERAL (reported in mg/L)							
Fluoride	4	1.4	1.4	NA	NA	NA	1.4
Nitrite	1	1	2	**< 2 U**	< 1 U	< 1 U	< 1 U
Total Phosphorous		0.05	0.072	0.064	< 0.05 U	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	7400	12000	**8400 J**	**12000 J**	**11000**	**10000**
TOTAL METALS (reported in ug/L)							
Aluminum	50	85	530	**85 J**	**480 J**	**< 150 U**	**210**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	72	93	**76**	**84**	**88**	**93**
Barium	2000	7.2	25	11 J	23 J	15 J-	14 J-
Beryllium	4	0.18	10	3 J	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		710000	1200000	1100000 J	970000 J-	920000	860000
Chromium	100	81	250	**200**	**230**	**250**	**210**
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.52	50	< 50 U	6.9 J	< 9.7 U	< 0.97 U
Iron	300	49	400	51 J	290 J	< 49 U	98 J-
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	430	700	**560 J+**	**610 J**	**490 J+**	**680 J+**
Magnesium	207000	260000	480000	**410000 J**	**400000 J-**	**400000**	**340000**
Mercury	2	0.0029	0.2	0.0085 J	< 0.0029 U	< 0.003 U	< 0.0029 U
Molybdenum	183	85	140	110	140	130	140
Nickel	730	1.6	100	< 100 U	< 4.7 U	< 9.3 U	2.9 J-
Potassium		27000	50000	34000 J	40000 J	27000	48000 J+
Selenium	50	3.5	27	< 25 U	< 13 U	< 27 U	5.1
Silicon		33000	39000	35000	39000 J-	38000	36000

Table 41 Analytical Results for Well PC-024, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		1200000	1900000	1600000 J	1800000 J-	1500000	1600000 J-
Thallium	2	0.04	0.2	0.06 J	0.06 J	0.12 J+	0.05 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.86	100	< 100 U	5.3 J	6 J-	0.86 J-
Uranium	30	34	47	**42**	**34**	**36**	**34**
Vanadium	183	22	28	22 J	26 J	23 J-	26
Zinc	11000	0.72	100	< 100 U	67 J	< 7.2 U	< 0.72 U
Zirconium	2.92	0.5	20	**15 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.24	20	< 2 U	0.3 J	0.33 J	< 0.3 U
1,1-Dichloroethene	7	2.2	20	2.4	2.3	2.7	2.2
1,2-Dichloroethane	5	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	200	< 20 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	200	< 20 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	200	< 20 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	20	**< 2 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	20	< 2 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	20	< 2 U	< 0.3 U	< 0.3 UJ	< 0.3 U
Carbon disulfide	1040	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	4.4	20	**5.8**	**6.2**	**6.2**	**5.9**
Chlorobenzene	100	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	400	730	**700**	**650**	**650**	**540**
Chloromethane	2.7	0.3	20	< 2 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.17	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	20	**< 2 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	20	< 2 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	20	**< 2 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 41 Analytical Results for Well PC-024, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	1.9	20	2.5	3	3.4	3.5
Toluene	1000	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	400	730	**700**	**650**	**650**	**540**
trans-1,2-Dichloroethene	100	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.71	20	0.96 J	0.91 J	0.94 J	0.79 J
Trichlorofluoromethane	1290	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	20	< 2 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	2	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 42 Analytical Results for Well PC-028, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		86	110	100	99 J	100	110
ANIONS (reported in mg/L)							
Chloride	4	820	1200	**910 J**	**820 J**	**1000**	**870**
Nitrate	10	30	37	**33 J**	**33 J**	**30**	**31**
Perchlorate	0.018	44	520	**400 J**	**390 J**	**350**	**320**
Sulfate	250	2100	2600	**2400 J**	**2100 J**	**2600**	**2500**
GENERAL (reported in mg/L)							
Fluoride	4	1.5	1.5	NA	NA	NA	1.5
Nitrite	1	0.5	1	< 1 U	< 0.5 U	< 1 U	< 1 U
Total Phosphorous		0.05	0.18	< 0.05 U	0.098	0.18	0.16
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	6500	7500	**6800**	**7000 J**	**6800**	**6500**
TOTAL METALS (reported in ug/L)							
Aluminum	50	150	3000	**150 J**	**850**	**1100**	**1600**
Antimony	6	3	100	**< 100 U**	< 3 U	**< 30 U**	< 3 U
Arsenic	10	170	250	**230**	**230**	**230**	**250**
Barium	2000	10	53	12 J	20 J	26 J-	30 J-
Beryllium	4	0.18	10	3 J	< 0.18 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 0.33 U	< 3.3 U	0.41 J-
Calcium		570000	680000	630000 J	590000 J	600000	570000
Chromium	100	770	1300	**1100**	**970 J-**	**980**	**780**
Cobalt	11	0.45	50	**< 50 U**	< 0.45 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	2.3 J	< 9.7 U	< 0.97 U
Iron	300	39	2400	100 J	**600**	**1100**	**1100**
Lead	15	1.3	15	< 15 U	< 1.3 U	< 13 U	< 1.3 U
Lithium	73	320	580	**440 J+**	**510**	**380 J+**	**570 J+**
Magnesium	207000	190000	310000	**210000 J**	190000 J	**210000**	190000
Mercury	2	0.0029	0.2	0.0084 J	0.049 J	< 0.003 U	< 0.0029 U
Molybdenum	183	26	200	36 J	38	26 J-	41
Nickel	730	2.9	100	< 100 U	3.9 J-	< 9.3 U	2.9 J-
Potassium		7000	35000	9500 J	15000 J+	7000 J-	17000
Selenium	50	4.7	27	< 25 U	7.5	< 27 U	8.3
Silicon		36000	49000	42000	41000	49000	44000

Table 42 Analytical Results for Well PC-028, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 1.1 U	< 11 U	< 1.1 U
Sodium		850000	2400000	850000 J	870000 J	870000	860000
Thallium	2	0.02	0.2	0.03 J	0.05 J	0.02 J+	0.02 J+
Tin	21900	2.8	250	< 250 U	< 2.8 U	< 28 U	< 2.8 U
Titanium	146000	3.9	130	< 100 U	31	49 J-	58
Uranium	30	90	150	**120**	**120**	**110**	**130**
Vanadium	183	46	140	140	120	130	110
Zinc	11000	2.9	120	< 100 U	4.8 J	< 7.2 U	5.7 J-
Zirconium	2.92	0.5	100	**11 J**	< 0.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	120	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	120	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	120	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	12	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	12	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	12	< 1 U	< 0.3 U	< 0.3 UJ	< 0.3 U
Carbon disulfide	1040	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	1.8	11	2.6	1.8	3.1	2.1
Chlorobenzene	100	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	58	340	**75**	**61**	**75**	**58**
Chloromethane	2.7	0.3	12	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	12	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	19	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	10	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 42 Analytical Results for Well PC-028, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	0.56	12	0.81 J	0.56 J	0.85 J	0.68 J
Toluene	1000	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	58	340	75	61	75	58
trans-1,2-Dichloroethene	100	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.43	12	0.55 J	0.62 J	0.5 J	0.43 J
Trichlorofluoromethane	1290	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	12	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	25	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 43 Analytical Results for Well PC-054, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		100	120	110	100 J	100	110 J
ANIONS (reported in mg/L)							
Chloride	4	500	890	**540**	**500 J**	**510**	**660 J**
Nitrate	10	26	43	**35**	**33 J**	**34**	**43 J**
Perchlorate	0.018	190	270	**220**	**190 J**	**210**	**230 J**
Sulfate	250	2100	2900	**2400**	**2300 J**	**2100**	**2100 J**
GENERAL (reported in mg/L)							
Fluoride	4	1.3	1.3	NA	NA	NA	1.3 J
Nitrite	1	0.15	1	< 0.5 U	< 0.15 U	< 0.5 UJ-	< 0.5 U
Total Phosphorous		0.05	0.2	< 0.05 U	0.062 U	0.067	0.054
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5400	7700	**5700**	**5700 J**	**5400 J**	**5600 J**
TOTAL METALS (reported in ug/L)							
Aluminum	50	150	3300	**220 J**	**210 J**	**< 150 U**	**180**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	150	180	**170**	**170**	**150**	**170**
Barium	2000	7.2	34	8 J	7.2 J	7.5 J-	13 J-
Beryllium	4	0.18	10	3 J	< 0.88 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		540000	630000	590000	550000 J-	540000	550000 J
Chromium	100	1300	4900	**1300**	**1300**	**1300**	**1300**
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	42	2300	150 J	42 J	< 49 U	98 J-
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	370	760	**480 J+**	**450 J**	**370 J+**	**600 J+**
Magnesium	207000	180000	240000	**220000**	200000 J-	190000	180000 J
Mercury	2	0.0029	0.2	0.0097 J	< 0.0029 U	< 0.003 U	0.0043 J-
Molybdenum	183	19	47	22 J	29 J	19 J-	34
Nickel	730	4.2	100	< 100 U	< 4.7 U	< 9.3 U	5.5 J-
Potassium		12000	26000	15000 J	16000 J	12000	26000 J
Selenium	50	3	27	< 25 U	< 13 U	< 27 U	4.7 J-
Silicon		39000	45000	44000	45000 J-	45000	43000

Table 43 Analytical Results for Well PC-054, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	0.74	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		600000	910000	630000 J	620000 J-	600000	610000 J
Thallium	2	0.03	0.2	0.12 J	0.03 J	0.03 J+	0.04 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.88	120	< 100 U	< 1.4 U	< 2.7 U	0.88 J-
Uranium	30	87	160	**130**	**100**	**87**	**95**
Vanadium	183	83	100	100	100	94 J-	89
Zinc	11000	3.6	200	< 100 U	< 3.6 U	< 7.2 U	18 J-
Zirconium	2.92	0.5	20	**19 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloroethane	5	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	1.7	3.7	2.5	1.9	2.5	1.9
2-Butanone	7060	3	100	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	100	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	100	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	10	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	10	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.24	10	0.5 J	< 0.3 U	< 0.3 U	< 0.3 U
Chlorobenzene	100	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	9	360	**65**	**54**	**37**	**9**
Chloromethane	2.7	0.3	10	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	10	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.29	10	0.58 J	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	10	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 43 Analytical Results for Well PC-054, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	0.8	3.1	1.4	0.8 J	1.3	1.1
Toluene	1000	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	0.72	360	65	NA	37	9
trans-1,2-Dichloroethene	100	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.19	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichlorofluoromethane	1290	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	10	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	2	4	NA	< 2 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 44 Analytical Results for Well PC-067, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		120	150	140	140 J	130	150 J
ANIONS (reported in mg/L)							
Chloride	4	3500	5900	**3700**	**3500 J**	**3600**	**4400 J**
Nitrate	10	38	59	**39**	**39 J**	**38**	**39 J**
Perchlorate	0.018	24	90	**63**	**46 J**	**54**	**24 J**
Sulfate	250	2500	3000	**2800**	**2500 J**	**2600**	**2700 J**
GENERAL (reported in mg/L)							
Fluoride	4	2.6	2.6	NA	NA	NA	2.6 J
Nitrite	1	1	2	**< 2 U**	< 1 U	**< 2 UJ-**	**< 2 U**
Total Phosphorous		0.05	0.18	< 0.05 U	< 0.05 U	0.12	0.18
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	11000	15000	**11000**	**12000 J**	**11000**	**12000**
TOTAL METALS (reported in ug/L)							
Aluminum	50	130	2100	**550**	**440**	**1200**	**1800**
Antimony	6	3	100	**< 100 U**	< 3 U	**< 30 U**	< 3 U
Arsenic	10	130	230	**170**	**160**	**160**	**170**
Barium	2000	12	56	33 J	28 J	56 J-	50 J-
Beryllium	4	0.18	10	2.6 J	< 0.18 U	< 1.8 U	< 0.18 U
Cadmium	5	0.33	25	**< 25 U**	< 0.33 U	< 3.3 U	< 0.33 U
Calcium		640000	830000	690000	710000 J	690000	760000 J
Chromium	100	330	1200	**700**	**440 J-**	**620**	**330**
Cobalt	11	0.45	50	**< 50 U**	0.75 J	< 4.5 U	< 0.45 U
Copper	1300	0.69	50	< 50 U	< 0.97 U	< 9.7 U	< 0.97 U
Iron	300	110	1700	**410 J**	260	**1200**	**1200**
Lead	15	1.3	15	< 15 U	< 1.3 U	< 13 U	< 1.3 U
Lithium	73	440	710	**570 J+**	**610**	**480 J+**	**710 J+**
Magnesium	207000	210000	470000	**310000**	**270000 J-**	**310000**	**290000 J**
Mercury	2	0.0069	0.2	0.0098 J	0.052 J	0.0069 J-	0.0086 J-
Molybdenum	183	31	220	**210**	180	**200**	**200**
Nickel	730	3.5	100	< 100 U	3.5 J-	< 9.3 U	5.1 J-
Potassium		12000	51000	33000 J	45000 J+	25000	51000 J
Selenium	50	2.7	27	< 25 U	< 2.7 U	< 27 U	3.1 J-
Silicon		36000	48000	43000	39000	48000	45000

Table 44 Analytical Results for Well PC-067, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	0.84	50	< 50 U	< 1.1 U	< 11 U	< 1.1 U
Sodium		960000	2700000	2100000 J	2100000 J	2000000	2200000 J
Thallium	2	0.05	0.2	0.08 J	0.08 J	0.07 J+	0.1 J+
Tin	21900	2.8	250	< 250 U	< 2.8 U	< 28 U	< 2.8 U
Titanium	146000	11	100	11 J	13 J	53 J+	56
Uranium	30	110	230	**140**	**150**	**130**	**150**
Vanadium	183	40	120	46 J	40 J-	54 J-	43
Zinc	11000	0.72	280	< 100 U	< 0.72 U	< 7.2 U	3.4 J-
Zirconium	2.92	0.5	100	**17 J**	< 0.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.27	50	< 1 U	< 0.3 U	0.32 J	< 0.3 U
1,1-Dichloroethene	7	1	50	1.1	1	1.2	1.4
1,2-Dichloroethane	5	0.2	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.78	50	1 J	0.89 J	1	0.78 J
2-Butanone	7060	3	500	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	3	500	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	500	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	50	**0.68 J**	**0.49 J**	**0.45 J**	**< 0.3 U**
Bromoform	8.51	0.3	50	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	7.1	17	**8.3**	**7.3**	**9.4**	**7.1**
Chlorobenzene	100	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	710	1300	**860**	**760**	**900**	**860**
Chloromethane	2.7	0.3	50	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.17	50	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.22	50	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	50	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 44 Analytical Results for Well PC-067, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	12	43	**16**	**14**	**18**	**16**
Toluene	1000	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	710.7	1300	**860.7**	**760.5**	**900.4**	**860**
trans-1,2-Dichloroethene	100	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.45	50	0.46 J	0.5 J	0.57 J	0.58 J
Trichlorofluoromethane	1290	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	80	< 2 U	< 0.6 U	NA	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 45 Analytical Results for Well PC-124, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		78	89	80	78	79 J	89 J
ANIONS (reported in mg/L)							
Chloride	4	2400	3000	**2700**	**2500**	**2900 J**	**3000 J**
Nitrate	10	21	27	**24**	**24**	**27 J**	**26 J**
Perchlorate	0.018	5.4	8	**7.1**	**6.7**	**7.5 J**	**8 J**
Sulfate	250	1900	2200	**2000**	**2000**	**2100 J**	**2100 J**
GENERAL (reported in mg/L)							
Fluoride	4	1.5	1.5	NA	NA	NA	1.5 J
Nitrite	1	1	1	< 1 U	< 1 U	< 1 U	< 1 U
Total Phosphorous		0.05	0.063	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	6600	8800	**7900**	**8400**	**8800**	**8400**
TOTAL METALS (reported in ug/L)							
Aluminum	50	95	500	**< 500 U**	**270 J**	**< 150 U**	**190**
Antimony	6	3	100	**< 100 U**	**< 15 U**	**< 30 U**	< 3 U
Arsenic	10	82	90	**87**	**90**	**82**	**89**
Barium	2000	10	20	19 J	18 J	10 J-	20 J-
Beryllium	4	0.21	10	1.6 J	< 0.88 U	< 1.8 U	0.21 J+
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 3.3 U	< 0.33 U
Calcium		860000	960000	910000	880000 J-	900000 J	960000 J
Chromium	100	10	160	50 J	59	56 J-	65
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 4.5 U	< 0.45 U
Copper	1300	0.97	50	< 50 U	< 4.8 U	< 9.7 U	< 0.97 U
Iron	300	38	210	88 J	130 J	< 49 U	100
Lead	15	1.3	15	< 15 U	< 6.4 U	< 13 U	< 1.3 U
Lithium	73	410	640	**480 J+**	**490 J**	**410 J+**	**640 J+**
Magnesium	207000	330000	380000	**380000**	**370000 J-**	**380000 J**	**370000 J**
Mercury	2	0.0029	0.026	0.0051 J	< 0.0029 U	< 0.003 U	0.0042 J-
Molybdenum	183	52	72	61	66	52 J-	72
Nickel	730	1.8	100	< 100 U	< 4.7 U	< 9.3 U	1.8 J-
Potassium		21000	42000	27000 J	29000	21000 J	42000 J+
Selenium	50	4.2	27	< 25 U	< 13 U	< 27 U	5 J-

Table 45 Analytical Results for Well PC-124, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silicon		38000	44000	42000	44000 J-	41000	40000
Silver	100	1.1	50	< 50 U	< 5.4 U	< 11 U	< 1.1 U
Sodium		860000	980000	860000 J	960000 J-	960000 J	980000 J-
Thallium	2	0.04	0.2	0.15 J	0.08 J	0.09 J+	0.08 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 28 U	< 2.8 U
Titanium	146000	0.27	100	< 100 U	< 1.4 U	< 2.7 U	< 0.27 U
Uranium	30	34	37	**36**	**36**	**34**	**36**
Vanadium	183	25	32	25 J	30 J	27 J-	26
Zinc	11000	1.9	100	< 100 U	< 3.6 U	< 7.2 U	1.9 J-
Zirconium	2.92	0.5	20	**20 J**	< 2.5 U	**< 5 U**	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.2	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethene	7	1.3	1.9	1.6	1.3	1.8	1.5
1,2-Dichloroethane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,3-Dichlorobenzene	86.7	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
2-Butanone	7060	3	10	< 10 U	< 3 U	< 3 UJ	< 3 U
4-Methyl-2-pentanone	1990	3	10	< 10 U	< 3 U	< 3.4 UJ	< 3.4 U
Acetone	21800	3	10	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Bromoform	8.51	0.3	1	< 1 U	< 0.3 U	< 0.34 U	< 0.34 U
Bromomethane	8.66	0.3	1	< 1 U	< 0.3 U	< 0.3 UJ	< 0.3 U
Carbon disulfide	1040	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	0.59	1.2	0.98 J	0.66 J	1.2	1.1
Chlorobenzene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Chloroform	0.19	180	300	**300**	**260**	**270**	**280**
Chloromethane	2.7	0.3	1	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.2	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Dibromochloromethane	0.15	0.3	1	**< 1 U**	**< 0.3 U**	**< 0.3 U**	**< 0.3 U**
Ethylbenzene	700	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.3	1	< 1 U	< 0.32 U	< 0.3 U	< 0.3 U
Naphthalene	0.14	0.3	1	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**

Table 45 Analytical Results for Well PC-124, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Styrene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Tetrachloroethene	5	0.75	1	0.86 J	0.75 J	1	0.94 J
Toluene	1000	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	180	300	**300**	**260**	**270**	**280**
trans-1,2-Dichloroethene	100	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.75	1.1	0.85 J	0.75 J	0.96 J	0.85 J
Trichlorofluoromethane	1290	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	1	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	2	NA	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
- - Biased low
µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

Table 46 Analytical Results for Well POU-3, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		68	148	74	76	68	78 J
ANIONS (reported in mg/L)							
Chloride	4	64.8	3800	**2700**	**1600**	**3100**	**3000 J**
Nitrate	10	4	121	**12**	**11**	**12**	**13 J**
Perchlorate	0.018	11	41	**28**	**11**	**30**	**29 J**
Sulfate	250	1280	2700	**2300**	**2100**	**2500**	**2500 J**
GENERAL (reported in mg/L)							
Fluoride	4	2	2	NA	NA	NA	< 2 UJ
Nitrite	1	1	2	< 1 U	< 1 U	< 1 U	< 1 U
Total Phosphorous		0.05	0.15	< 0.05 U	< 0.05 U	< 0.05 U	0.052 J+
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3110	9900	**7900**	**6400**	**9000**	**8800**
TOTAL METALS (reported in ug/L)							
Aluminum	50	14	460	**170 J**	**< 76 U**	**77 J+**	**200**
Antimony	6	3	100	**< 100 U**	**< 15 U**	< 3 U	< 3 U
Arsenic	10	12.7	110	**89**	**94**	**86**	**83**
Barium	2000	9.1	28	21 J	9.1 J	23 J-	28 J-
Beryllium	4	0.081	10	2.7 J	< 0.88 U	< 0.18 U	0.33 J+
Cadmium	5	0.33	25	**< 25 U**	< 1.6 U	< 0.33 U	< 0.33 U
Calcium		212000	840000	720000	610000	720000 J+	720000 J
Chromium	100	3	530	**340**	**120**	**320 J-**	**360 J-**
Cobalt	11	0.45	50	**< 50 U**	< 2.2 U	< 0.45 U	< 0.45 U
Copper	1300	0.82	50	< 50 U	< 4.8 U	< 0.97 U	< 0.97 U
Iron	300	12	500	130 J	< 25 U	13 J	110
Lead	15	1	15	< 15 U	< 6.4 U	< 1.3 U	< 1.3 U
Lithium	73	180	270	**220 J+**	**200**	**180**	**270 J+**
Magnesium	207000	81100	430000	**350000**	**250000**	**320000**	**330000 J**
Mercury	2	0.0029	0.2	0.0049 J	< 0.0029 U	< 0.003 U	0.013 J+
Molybdenum	183	38	87	71	38 J	81	86
Nickel	730	0.93	100	< 100 U	< 4.7 U	< 0.93 U	< 0.93 U
Potassium		13000	59000	38000 J	22000	46000 J+	59000 J+
Selenium	50	1.3	25	< 25 U	< 13 U	3.4 J-	3.4 J+
Silicon		37000	44000	44000	43000	37000	44000

Table 46 Analytical Results for Well POU-3, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Silver	100	1.1	50	< 50 U	< 5.4 U	< 1.1 U	< 1.1 U
Sodium		525000	1600000	1300000 J	850000	1500000 J+	1400000 J
Thallium	2	0.02	0.2	0.03 J	0.03 J	0.09 J+	0.02 J+
Tin	21900	2.8	250	< 250 U	< 14 U	< 2.8 U	6.9 J-
Titanium	146000	0.26	100	< 100 U	< 1.4 U	< 0.26 U	6.2 J-
Uranium	30	8.5	45.2	12	20	8.9	9.1
Vanadium	183	11	38.2	19 J	26 J	17	24 J-
Zinc	11000	0.72	170	< 100 U	< 3.6 U	1.4 J+	< 0.72 U
Zirconium	2.92	0.5	12	**12 J**	< 2.5 U	< 0.5 U	< 0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1,2-Trichloroethane	5	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
1,1-Dichloroethane	2.42	0.26	50	0.65 J	< 0.3 U	0.94 J	0.77 J
1,1-Dichloroethene	7	1.5	50	1.5	1.8 J	2.5	1.9
1,2-Dichloroethane	5	0.3	50	1 J	< 0.3 U	1.3	1.1
1,2-Dichloropropane	5	0.3	50	0.79 J	< 0.3 U	1.2	0.9 J
1,3-Dichlorobenzene	86.7	0.4	50	0.76 J	1.2 J	0.97 J	0.82 J
2-Butanone	7060	3	500	< 10 U	< 3 U	< 3 U	< 3 U
4-Methyl-2-pentanone	1990	1.3	500	< 10 U	< 3 U	< 3.4 U	< 3.4 U
Acetone	21800	3	500	< 10 U	< 6.4 U	< 3 U	< 3 U
Benzene	5	0.21	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Bromodichloromethane	0.12	1	33	**4.7**	**2.2**	**6.3**	**5.6**
Bromoform	8.51	0.71	50	2.1	0.71 J	1.9	2
Bromomethane	8.66	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon disulfide	1040	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Carbon tetrachloride	5	1	29	**11**	4.2	**18**	**15**
Chlorobenzene	100	0.27	50	0.44 J	< 0.3 U	0.57 J	0.54 J
Chloroform	0.19	8.2	1200	**810**	**350**	**1200**	**1000**
Chloromethane	2.7	0.3	50	< 1 U	< 0.33 U	< 0.3 U	< 0.3 U
cis-1,2-Dichloroethene	70	0.21	50	0.6 J	< 0.3 U	0.99 J	0.7 J
Dibromochloromethane	0.15	1	15	**2.5**	**1.1 J**	**2.5**	**2.5**
Ethylbenzene	700	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Methylene chloride	5	0.6	50	2.8 J	2.2 J	4.8 J+	3.3 J+
Naphthalene	0.14	0.3	50	**< 1 U**	**< 0.42 U**	**< 0.3 U**	**< 0.3 U**
Styrene	100	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U

Table 46 Analytical Results for Well POU-3, Off-Site
Titanium Metals Corporation
Henderson, Nevada

Analyte	Comparison Level (NDEP BCL or MCL) (a,b)	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2011	1st SMSTR 2012	2nd SMSTR 2012	1st SMSTR 2013
Tetrachloroethene	5	8.5	75	**14**	**39**	**15**	**14**
Toluene	1000	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Trihalomethanes (e)	80	8.2	1258	**819.3**	**354**	**1211**	**1010**
trans-1,2-Dichloroethene	100	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Trichloroethene	5	0.47	50	2.5	1.5 J	3.9	3.1
Trichlorofluoromethane	1290	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Vinyl chloride	2	0.3	50	< 1 U	< 0.3 U	< 0.3 U	< 0.3 U
Total Xylene	10000	0.6	10	< 2 U	< 0.6 U	< 2 U	< 2 U

Notes:
a - NDEP BCLs (updated July 31, 2013) are reported in the same unit as the analytical group. MCLs apply where no BCL exists.
b - Bold and shaded results exceed the associated Comparison Level or the reporting limit exceeds the Comparison Level due to analytical limitations or sample dilution.
c - Adjusted Gross Alpha (Total) was calculated using the following equation: Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d - Radium (R226 + R228) was calculated using the following equation: Radium (R226 + R228) = Radium 226 + Radium 228
e - Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
+ - Biased high
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µg/L - micrograms per liter
BCL - Basic Comparison Level
MCL - Maximum Contaminant Level
NDEP - Nevada Division of Environmental Protection
mg/L - milligrams per liter
NA - Not analyzed; or not calculated if components not detected
pCi/L - Picocuries per liter
SMSTR - Semester
Missing columns = no samples analyzed during monitoring event
Qualifiers:
J - Estimated value
U - Analyte not detected above the referenced reporting limit
R - Rejected data point

TABLE 47
CATION-ANION BALANCE SUMMARY
2nd SEMESTER 2012
2013 ANNUAL GROUNDWATER MONITORING REPORT

Well ID	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	59	62	2.0	Acceptable	4200	3700	1.2	Acceptable	4200	5304	0.79	Acceptable	Not qualified
AA-09	87	89	1.3	Acceptable	6300	5400	1.2	Acceptable	6300	7567	0.83	Acceptable	Not qualified
AA-20	84	94	5.6	**Unacceptable**	6100	5700	1.1	Acceptable	6100	7358	0.83	Acceptable	J-CAB
AA-27	59	63	3.0	Acceptable	4400	3800	1.1	Acceptable	4400	4804	0.92	Acceptable	Not qualified
AA-UW1	56	61	4.5	Acceptable	4200	3700	1.1	Acceptable	4200	4653	0.90	Acceptable	Not qualified
BRW-R1	49	54	5.4	**Unacceptable**	3700	3300	1.1	Acceptable	3700	5078	0.73	Acceptable	J-CAB
CLD1-R	72	77	3.5	Acceptable	5300	4400	1.2	Acceptable	5300	7490	0.71	Acceptable	Not qualified
CLD4-R	65	69	2.9	Acceptable	4500	3900	1.2	Acceptable	4500	7800	0.58	Acceptable	Not qualified
CMT-101	Incomplete cation/anion dataset [8]			NA	Incomplete cation/anion dataset [8]			NA	6700	8856	0.76	Acceptable	Not qualified
DBMW-1	82	84	1.4	Acceptable	6000	5200	1.2	Acceptable	6000	7034	0.85	Acceptable	Not qualified
DBMW-3	140	150	2.7	Acceptable	10000	9200	1.1	Acceptable	10000	12170	0.82	Acceptable	Not qualified
DBMW-4	78	80	1.2	Acceptable	5700	4900	1.2	Acceptable	5700	6836	0.83	Acceptable	Not qualified
DBMW-5	76	78	1.2	Acceptable	5400	4700	1.2	Acceptable	5400	6684	0.81	Acceptable	Not qualified
EWQal-12	71	82	7.4	**Unacceptable**	5200	4800	1.1	Acceptable	5200	7069	0.74	Acceptable	J-CAB
J2D1-R2	81	85	2.2	Acceptable	6000	4800	1.2	Acceptable	6000	8642	0.69	Acceptable	Not qualified
J2D2-R2	81	89	4.7	Acceptable	6300	4900	1.3	**Unacceptable**	6300	8800	0.72	Acceptable	J-TDS
J2D4	130	140	4.2	Acceptable	10000	8100	1.2	Acceptable	10000	15710	0.64	Acceptable	Not qualified
J2U2	66	74	5.9	**Unacceptable**	4800	4100	1.2	Acceptable	4800	5994	0.80	Acceptable	J-CAB
M-129	80	93	7.6	**Unacceptable**	6100	5500	1.1	Acceptable	6100	8392	0.73	Acceptable	J-CAB
M-130	Incomplete cation/anion dataset [8]			NA	Incomplete cation/anion dataset [8]			NA	5800	7573	0.77	Acceptable	Not qualified
TIMETMW-3R	53	58	4.9	Acceptable	3500	3200	1.1	Acceptable	3500	5478	0.64	Acceptable	Not qualified
TIMETMW-4	41	43	1.5	Acceptable	3200	2700	1.2	Acceptable	3200	3799	0.84	Acceptable	Not qualified
TIMETMW-5	55	58	3.1	Acceptable	4000	3600	1.1	Acceptable	4000	5567	0.72	Acceptable	Not qualified
TIMETMW-6R	41	44	2.9	Acceptable	3000	2600	1.2	Acceptable	3000	4482	0.67	Acceptable	Not qualified
PC-024	120	130	4.3	Acceptable	8800	7300	1.2	Acceptable	8800	11160	0.79	Acceptable	Not qualified
PC-124	140	170	8.6	**Unacceptable**	11000	9500	1.2	Acceptable	11000	14890	0.74	Acceptable	J-CAB
PC-028	85	90	2.7	Acceptable	6800	5700	1.2	Acceptable	6800	7409	0.92	Acceptable	Not qualified
PC-054	69	65	3.2	Acceptable	5400	4200	1.3	**Unacceptable**	5400	6102	0.88	Acceptable	J-TDS
PC-067	150	160	4.5	Acceptable	11000	9300	1.2	Acceptable	11000	14860	0.74	Acceptable	Not qualified
POU-3	130	140	4.9	Acceptable	9000	8200	1.1	Acceptable	9000	12850	0.7	Acceptable	Not qualified
TMMW-101	27	29	4.1	Acceptable	2100	1700	1.2	Acceptable	2100	2716	0.77	Acceptable	Not qualified
TMMW-102	18	20	3.7	Acceptable	1300	1100	1.2	Acceptable	1300	1782	0.73	Acceptable	Not qualified
TMMW-103	29	31	4.3	Acceptable	2100	1800	1.2	Acceptable	2100	2960	0.71	Acceptable	Not qualified
TMMW-104	30	32	2.2	Acceptable	2300	1900	1.2	Acceptable	2300	2797	0.82	Acceptable	Not qualified

TABLE 47
CATION-ANION BALANCE SUMMARY
2nd SEMESTER 2012
2013 ANNUAL GROUNDWATER MONITORING REPORT

Well ID	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
TMPZ-105	87	120	14	**Unacceptable**	7400	6400	1.2	Acceptable	7400	10950	0.68	Acceptable	J-CAB
TMPZ-106	64	74	7.3	**Unacceptable**	4700	4000	1.2	Acceptable	4700	7504	0.63	Acceptable	J-CAB
TMPZ-107	210	260	9.0	**Unacceptable**	16000	14000	1.2	Acceptable	16000	23860	0.67	Acceptable	J-CAB
TMPZ-108	160	180	8.5	**Unacceptable**	12000	10000	1.2	Acceptable	12000	19160	0.63	Acceptable	J-CAB
TMPZ-109	83	85	1.3	Acceptable	5700	4900	1.2	Acceptable	5700	8602	0.66	Acceptable	Not qualified
TMPZ-110	77	83	3.7	Acceptable	5600	4900	1.2	Acceptable	5600	7578	0.74	Acceptable	Not qualified

Notes:

CAB	Cation/anion balance	mg/L	Milligram per liter
EC	Electrical conductivity	TDS	Total dissolved solids
meq/L	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
8 The approved sampling plan for these wells do not require that a full suite of cations and anions be analyzed; as such the calculations are not conducted.

TABLE 48
CATION-ANION BALANCE SUMMARY
1st SEMESTER 2013
2013 ANNUAL GROUNDWATER MONITORING REPORT

Well ID	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	62	75	9.7	**Unacceptable**	4300	4300	1.0	Acceptable	4300	4770	0.90	Acceptable	J-CAB
AA-09	88	92	2.2	Acceptable	6200	5500	1.1	Acceptable	6200	7257	0.85	Acceptable	Not qualified.
AA-20	80	92	6.8	**Unacceptable**	5900	5500	1.1	Acceptable	5900	6884	0.86	Acceptable	J-CAB
AA-27	60	76	12	**Unacceptable**	4400	4400	1.0	Acceptable	4400	5081	0.87	Acceptable	J-CAB
AA-UW1	58	60	1.3	Acceptable	4100	3700	1.1	Acceptable	4100	4555	0.90	Acceptable	Not qualified.
BRW-R1	49	52	2.7	Acceptable	3700	3200	1.2	Acceptable	3700	4468	0.83	Acceptable	Not qualified.
CLD1-R	73	84	7.2	**Unacceptable**	5400	4800	1.1	Acceptable	5400	7244	0.75	Acceptable	J-CAB
CLD4-R	71	94	14	**Unacceptable**	5500	5200	1.1	Acceptable	5500	7771	0.71	Acceptable	J-CAB
CMT-101	Incomplete cation/anion dataset [8]			NA	Incomplete cation/anion dataset [8]			NA	4300	5536	0.78	Acceptable	Not qualified.
DBMW-1	82	90	4.1	Acceptable	6000	5400	1.1	Acceptable	6000	7113	0.84	Acceptable	Not qualified.
DBMW-3	120	140	5.4	**Unacceptable**	9000	8300	1.1	Acceptable	9000	10680	0.84	Acceptable	J-CAB
DBMW-4	80	85	2.8	Acceptable	5600	5100	1.1	Acceptable	5600	6953	0.81	Acceptable	Not qualified.
DBMW-5	77	81	2.2	Acceptable	5300	4800	1.1	Acceptable	5300	6661	0.80	Acceptable	Not qualified.
EWQal-12	68	80	8.2	**Unacceptable**	5100	4600	1.1	Acceptable	5100	6189	0.82	Acceptable	J-CAB
J2D1-R2	81	88	3.9	Acceptable	5500	4900	1.1	Acceptable	5500	7646	0.72	Acceptable	Not qualified.
J2D2-R2	86	88	1.1	Acceptable	5700	5000	1.1	Acceptable	5700	7135	0.80	Acceptable	Not qualified.
J2D4	130	150	6.0	**Unacceptable**	9400	8500	1.1	Acceptable	9400	12430	0.76	Acceptable	J-CAB
J2U2	64	70	4.5	Acceptable	4600	4000	1.2	Acceptable	4600	6852	0.67	Acceptable	Not qualified.
M-129	Incomplete cation/anion dataset [8]			NA	Incomplete cation/anion dataset [8]			NA	5900	6606	0.89	Acceptable	Not qualified.
M-130	Incomplete cation/anion dataset [8]			NA	Incomplete cation/anion dataset [8]			NA	4900	7192	0.68	Acceptable	Not qualified.
TIMETMW-3R	65	74	6.5	**Unacceptable**	4600	4000	1.2	Acceptable	4600	7018	0.66	Acceptable	J-CAB
TIMETMW-4	41	43	2.4	Acceptable	3100	2700	1.2	Acceptable	3100	4308	0.72	Acceptable	Not qualified.
TIMETMW-5	52	54	1.3	Acceptable	3900	3300	1.2	Acceptable	3900	4863	0.80	Acceptable	Not qualified.
TIMETMW-6R	39	45	6.6	**Unacceptable**	3000	2500	1.2	Acceptable	3000	4850	0.62	Acceptable	J-CAB
PC-024	120	130	4.0	Acceptable	8400	7500	1.1	Acceptable	8400	11180	0.75	Acceptable	Not qualified.
PC-124	140	160	6.0	**Unacceptable**	10000	9100	1.1	Acceptable	10000	12750	0.78	Acceptable	J-CAB
PC-028	82	84	1.4	Acceptable	6500	5400	1.2	Acceptable	6500	7370	0.88	Acceptable	Not qualified.
PC-054	69	70	0.38	Acceptable	5600	4400	1.3	**Unacceptable**	5600	6563	0.85	Acceptable	J-TDS
PC-067	160	190	8.0	**Unacceptable**	12000	10000	1.1	Acceptable	12000	15910	0.75	Acceptable	J-CAB
POU-3	130	140	5.3	**Unacceptable**	8800	8100	1.1	Acceptable	8800	10900	0.81	Acceptable	J-CAB
TMMW-101	18	30	25	**Unacceptable**	1800	1500	1.2	Acceptable	1800	2665	0.68	Acceptable	J-CAB
TMMW-102	19	19	1.1	Acceptable	1200	1100	1.1	Acceptable	1200	2138	0.56	Acceptable	Not qualified.
TMMW-103	27	29	4.3	Acceptable	2000	1700	1.2	Acceptable	2000	2541	0.79	Acceptable	Not qualified.
TMMW-104	26	26	0.76	Acceptable	1900	1600	1.2	Acceptable	1900	2315	0.82	Acceptable	Not qualified.

TABLE 48
CATION-ANION BALANCE SUMMARY
1st SEMESTER 2013
2013 ANNUAL GROUNDWATER MONITORING REPORT

Well ID	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
TMPZ-105	100	120	7.0	**Unacceptable**	7600	6800	1.1	Acceptable	7600	10380	0.73	Acceptable	J-CAB
TMPZ-106	Incomplete cation/anion dataset [8]			NA	Incomplete cation/anion dataset [8]			NA	9100	13260	0.69	Acceptable	Not qualified.
TMPZ-107	250	320	12	**Unacceptable**	16000	17000	0.96	**Unacceptable**	16000	21020	0.76	Acceptable	J-CAB, J-TDS
TMPZ-108	Incomplete cation/anion dataset [8]			NA	Incomplete cation/anion dataset [8]			NA	13000	17810	0.73	Acceptable	Not qualified.
TMPZ-109	Incomplete cation/anion dataset [8]			NA	Incomplete cation/anion dataset [8]			NA	5400	7339	0.74	Acceptable	Not qualified.
TMPZ-110	79	90	6.5	**Unacceptable**	5900	5200	1.1	Acceptable	5900	7104	0.83	Acceptable	J-CAB
TMPZ-111	43	46	3.4	Acceptable	3400	2900	1.2	Acceptable	3400	3798	0.90	Acceptable	Not qualified.
TMPZ-112	66	71	3.9	Acceptable	5200	4500	1.2	Acceptable	5200	5368	0.97	Acceptable	Not qualified.

Notes:

CAB	Cation/anion balance	NA	Not applicable
EC	Electrical conductivity	TDS	Total dissolved solids
meq/L	Milliequivalent per liter	uS/cm	MicroSiemens per centimeter
mg/L	Milligram per liter		

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
8 The approved sampling plan for these wells do not require that a full suite of cations and anions be analyzed; as such the calculations are not conducted.

Appendix A

Response to Comments

Appendix B

Groundwater Sampling Field Data Forms

TMMW-101 **TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet**

Well ID TMMW-101 DATE 10-8-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.) Clear, Warm

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 65 / 95 bottom of screen (below MP)
Pump Intake at unknown (ft. below MP)
Purging Device - pump type Dedicated Bladder
Pump Model QED volume (bladder plus tubing)

Flowrate: 200 ml per minute, Pump settings: 60 psi, 2 cpm, 45 ID

Parameter tolerances (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			81	.58	—	.10	.22	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1336	68.22	START	PUMP					Purge water was clear with no odor
1341	68.31	25.02	2692	5.97	36.2	7.33	7.56	Turbidity readings were within drinking
1344	68.34	25.05	2716	5.78	32.0	7.29	6.10	water standards <10 NTU.
1347	68.36	24.97	2720	5.76	31.4	7.30	4.93	
1350	68.36	24.92	2718	5.77	31.5	7.31	3.15	
1353	68.36	24.98	2716	5.78	31.7	7.32	2.19	
1356	68.36	24.96	2717	5.76	31.9	7.32	2.42	
1359	68.36	24.97	2716	5.77	32.0	7.31	2.05	
1405	Began	sample	collection					

RECORDED PARAMETERS
INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 68.22 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1405
DEPTH TO WATER AT COMPLETION OF SAMPLING: 68.41
TIME AT COMPLETION OF SAMPLING: 1506
CUMULATIVE VOLUME PURGED: 4.6 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1355
TMMW-101 is yellow monument well located next to Discount Tire.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 68.22

drawdown setpoint 68.52

+0.3'

top of screen 65.00

Pump intake[2] _____
(depth from MP)

pump

bottom of screen 95.00

Measured total depth from TOC ~95.0

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field

TMMW-102 **TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet**

Well ID TMMW-102 DATE 10-9-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.) Clear, Warm

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 47.00 / 87.00 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Dedicated Bladder
Pump Model QED volume (bladder plus tubing) _____

Flowrate: 150 ml per minute, Pump settings: 60 psi, 2 rpm, 46 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			53.5	.68	—	.10	.12	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1106	63.58	START	PUMP					Purge water was clear with no odor. Turbidity readings were within drinking water standards <10 NTU.
1111	63.64	25.93	1744	6.65	36.5	7.39	2.11	
1114	63.68	26.01	1781	6.88	32.8	7.39	1.24	
1117	63.71	25.99	1785	6.96	30.5	7.40	1.09	
1120	63.75	25.99	1784	6.87	29.7	7.41	1.21	
1123	63.79	25.97	1782	6.87	28.9	7.40	.96	
1126	63.82	25.96	1782	6.86	28.4	7.41	1.38	
1130	Began	Sample	collection					

RECORDED PARAMETERS
INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 63.58 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1130
DEPTH TO WATER AT COMPLETION OF SAMPLING: 64.11
TIME AT COMPLETION OF SAMPLING: 1247
CUMULATIVE VOLUME PURGED: 3.6 liters

NOTES / COMMENTS: Fe^{2+} = 0.0 mg/L @ 1124
TMMW-102 is yellow monument well located along Lake Mead Dr. in Target shopping center

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 63.58

drawdown setpoint 63.88

+0.3'

top of screen 47.00

Pump intake[2] _____ (depth from MP)

pump

bottom of screen 87.00

Measured total depth from TOC ~87.00

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMMW-103 DATE 10-9-12
Field Personnel JON S.

Sampling Organization TIMET
Field observations: (weather, well conditions etc.)
hot, sunny

Surveyed Measuring Point (MP): TOC Elevation: 1889.95
Depth to top 57 / 87 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model _____ volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:						.1		
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1306								
1311	67.50	27.46	3276	6.23	26.8	7.07	.36	
1314	67.59	27.04	3150	6.10	28.8	7.12	.31	switched cycles from 2 to 1 in order
1317	67.60	26.82	2989	6.11	31.9	7.17	.80	to avoid max drawdown of .3.
1320	67.61	27.05	2968	6.13	33.3	7.18	.31	
1323	67.60	27.05	2959	6.05	33.4	7.19	.36	Flow started @ 200 ml/min, then
1326	67.59	27.14	2960	6.07	34.2	7.19	.32	down to 100 after changing
								cycles -

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 67.39

drawdown setpoint 67.69

+0.3'

top of screen 57

Pump intake[2] _____ (depth from MP)

pump

bottom of screen 87

Measured total depth from TOC 87

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: 67.39 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1330
DEPTH TO WATER AT COMPLETION OF SAMPLING: 67.65
TIME AT COMPLETION OF SAMPLING: 1405
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: Well located by El Pollo Loco.

Fe^{2+} = 0.0 @ 1330

Note 1: Shaded cells should be filled in prior to going into the field

TMMW-104 **TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet**

Well ID TMMW-104 DATE 10-10-12
Field Personnel Carlos C.
~~Warm, Overcast~~
Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Overcast

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 57 / 87 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Dedicated Bladder
Pump Model QED volume (bladder plus tubing) _____

Flowrate: 100 ml per minute. Pump settings: 40psi, 1cpm, 5 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			83.9	.72	—	.10	.015	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1053	70.85	START	PUMP					Purge water was clear with no odor
1058	70.93	25.13	2823	7.15	5.7	7.27	.33	Turbidity readings were within drinking
1101	70.98	25.28	2818	7.20	0.0	7.19	.71	water standards < 10 NTU
1104	71.00	25.63	2814	7.24	0.3	7.24	.19	
1107	71.00	25.51	2808	7.26	2.4	7.26	.13	
1110	71.00	25.53	2799	7.26	1.4	7.26	.15	
1113	71.00	25.49	2798	7.26	1.0	7.26	.09	
1116	71.00	25.55	2797	7.27	0.7	7.27	.12	
1120	Began	Sample	collection					

Well information

Dedicated pump (Y) N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 70.85

drawdown setpoint 71.15

+0.3'

top of screen 57.00

Pump intake[2] _____ (depth from MP)

pump

bottom of screen 87.00

Measured total depth from TOC ~87

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 70.85 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1120
DEPTH TO WATER AT COMPLETION OF SAMPLING: 71.09
TIME AT COMPLETION OF SAMPLING: 1305
CUMULATIVE VOLUME PURGED: 2.7 Liters

NOTES / COMMENTS: Ferrous Iron = 0.0 mg/L @ 1111. TMMW-104 is rusted monument well at the corner of Lake Mead & Water St. Well is located next to Shopping center sign.

Note 1: Shaded cells should be filled in prior to going into the field

TMMW-3R **TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet**

Well ID TMMW-3R DATE 10-10-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Overcast

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 41 / 66 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Dedicated Bladder
Pump Model QED volume (bladder plus tubing) _____

Flowrate: 100 ml per minute. Pump settings: 40 psi, 1 cpm, 4 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			164	.37	—	.10	.041	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1338	51.93	START	PUMP					Purge water was clear with no odor.
1343	52.00	26.66	5125	5.01	5.0	7.18	.37	Turbidity readings were within drinking
1346	52.05	26.48	5432	4.05	-7.0	7.04	.19	water standards < 10 NTU
1349	52.07	26.70	5460	3.96	-8.6	7.04	.44	
1352	52.07	26.73	5475	3.94	-6.5	7.03	.27	
1355	52.07	26.68	5476	3.72	-5.1	7.03	.41	
1358	52.07	26.71	5474	3.64	-4.6	7.03	.25	
1401	52.07	26.63	5478	3.70	-4.0	7.03	.18	
1405	Began	Sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 51.93

drawdown setpoint 52.23 (+0.3')

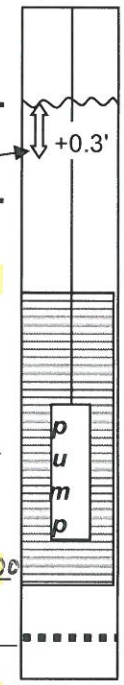
top of screen 41.00

Pump intake[2] _____ (depth from MP)

bottom of screen 66.00

Measured total depth from TOC ~68

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 51.93 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1405
DEPTH TO WATER AT COMPLETION OF SAMPLING: 52.13
TIME AT COMPLETION OF SAMPLING: 1550
CUMULATIVE VOLUME PURGED: 27 liters

NOTES / COMMENTS: Ferrous Iron = 0.0 mg/L @ 1357. TMMW-3R is Flush mount well located in dirt field behind Target.

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID BRW-R1 DATE 10-10-12
Field Personnel Jon Schaper

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
cloudy, 84°F

Surveyed Measuring Point (MP): *TOC* Elevation: 1844.15
Depth to top 40 / 60 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model MP50 volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1043								
1055	46.30	29.36	5284	5.66	61.8	6.92	.65	Flow only @ .2 mL/min, Refill @
1058	46.30	29.27	5285	5.16	57.0	7.03	.58	28 discharge of 2.0.
1101	46.30	29.52	5306	4.43	54.8	7.05	.68	
								YSI Meter Shut off and it
								stopped Logging:
								Began Logging again @
1116								1116, 1 CPM, 54 Refill, 6.0 Discharge.
1121	46.29	31.20	5468	4.98	41.9	7.09	.47	No Flow ≈ .2 mL/min.
1124	46.31	31.21	5473	4.98	41.2	7.10	.49	
1127	46.31	31.50	5504	4.88	38.4	7.12	.57	
1130	46.31	31.67	5519	4.99	37.8	7.12	.63	Not getting discharge ≈ .2 mL/min
1144	46.30	32.40	5600	4.72	31.2	7.16	.68	Went to 2 CPM, discharge of
1147	46.30	32.42	5602	4.70	29.7	7.16	.51	3.0 w/ 27.0 Refill.
1150	—	—	—	—	—	—	—	Still No flow ≈ .2 mL/min.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 46.30

drawdown setpoint _____

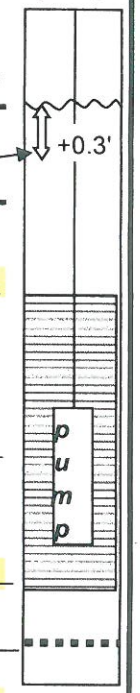
top of screen 40

Pump intake[2] _____ (depth from MP)

bottom of screen 60

Measured total depth from TOC _____

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: 46.30 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: _____
DEPTH TO WATER AT COMPLETION OF SAMPLING: _____
TIME AT COMPLETION OF SAMPLING: _____
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: Back of Employee Parking Lot by entrance Road.

Fe^{2+} 0.568 ppm @ 1219

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID BRW-R1 DATE 10-10-12
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
cloudy around 1200, cool front blowing in.

Surveyed Measuring Point (MP): TOC Elevation: 1844.15
Depth to top 40 / 60 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model MP50 volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:				.56	N/A	.1	Below Stnd. for drinking water	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1202	46.30	29.18	5321	5.52	24.3	7.30	.45	Increased Throttle. Flow rate
1205	46.31	28.37	5229	5.10	24.7	7.32	.61	went up to 100 ml/min.
1208	46.34	28.20	5208	4.78	25.3	7.33	.69	
1211	46.34	27.15	5109	4.80	28.1	7.34	.55	
1214	46.35	27.09	5088	4.52	29.7	7.33	.68	
1217	46.36	27.16	5099	4.63	30.8	7.33	.58	
1220	46.38	26.95	5078	4.47	31.7	7.33	0.69	Began Sampling

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 46.30

drawdown setpoint 46.60

+0.3'

top of screen 40

Pump intake[2] _____ (depth from MP)

bottom of screen 60

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: 46.30 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: [redacted] 1220
DEPTH TO WATER AT COMPLETION OF SAMPLING: 46.58
TIME AT COMPLETION OF SAMPLING: 1406
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS:

Fe^{2+} : 0.568 ppm @ 1219

Note 1: Shaded cells should be filled in prior to going into the field

AA-01

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-01 DATE 10-11-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Overcast, Rain

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at 50.5 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED SamplePro volume (bladder plus tubing) ____

Flowrate: 200 ml per minute. Pump Settings: 40 psi, 2 cpm, .44 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1229	47.89	START	PUMP					Purge water was clear with no odor
1234	48.00	24.07	5308	2.68	12.7	6.24	3.82	Turbidity readings were within drinking
1237	48.05	24.29	5312	2.42	16.7	5.49	3.54	water standards. < 10 NTU
1240	48.07	24.33	5310	2.38	19.3	6.66	3.26	
1243	48.07	24.38	5306	2.42	20.1	6.21	2.88	
1246	48.07	24.49	5315	2.41	21.0	6.11	2.27	
1249	48.07	24.44	5311	2.40	21.5	5.61	1.35	
1252	48.07	24.41	5318	2.22	21.7	5.55	1.04	
1255	48.07	24.55	5312	2.16	21.8	6.71	.61	
1258	48.07	24.66	5313	2.05	22.1	6.86	.80	
1301	48.07	24.69	5312	2.00	22.2	6.88	.71	
1304	48.07	24.81	5304	1.96	22.5	6.89	.67	
1310	Sample	collection	began					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 47.89

drawdown setpoint 48.19

+0.3'

top of screen ____

Pump intake[2] 50.00 (depth from MP)

pump

bottom of screen ____

Measured total depth from TOC 51.65

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 47.89 (static WL with out pump in)
DEPTH TO WATER: 47.89 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1310
DEPTH TO WATER AT COMPLETION OF SAMPLING: 48.09
TIME AT COMPLETION OF SAMPLING: 1327
CUMULATIVE VOLUME PURGED: 8.2 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1300.
AA-01 is yellow monument well located in Field along Boulder Hwy.

Note 1: Shaded cells should be filled in prior to going into the field

AA-UW-1

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-UW-1 DATE 10-11-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Overcast, Rain

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 54.5 / 64.5 bottom of screen (below MP)
Pump Intake at 56.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 200ml per minute: Pump settings: 40 psi, 2cpm, 46 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1101	52.01	START	PUMP					Purge water was clear with no odor
1106	52.14	23.58	4589	2.35	14.0	3.97	1.05	PH was considerably lower than
1109	52.21	23.76	4621	1.45	14.1	4.70	.98	last sampling event.
1112	52.22	23.74	4644	1.20	14.8	4.81	.76	I decreased flow rate to 1 cpm to avoid
1115	52.20	23.51	4659	1.05	15.0	5.17	.59	exceeding .3 drawdown. 150 ml per minute
1118	52.19	23.50	4670	.95	14.9	5.14	.57	Turbidity readings were within drinking
1121	52.19	23.27	4676	.79	14.9	5.10	.44	water standards < 10 NTU
1124	52.19	23.34	4679	.71	15.0	5.11	.51	
1127	52.19	23.68	4662	.69	15.3	5.16	.39	
1130	52.19	23.90	4653	.67	15.3	5.15	.34	
1135	Sample	collection	began					

RECORDED PARAMETERS

INI. DEPTH TO WATER: 52.01 (static WL with out pump in)
DEPTH TO WATER: 52.01(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1135
DEPTH TO WATER AT COMPLETION OF SAMPLING: 52.21
TIME AT COMPLETION OF SAMPLING: 1155
CUMULATIVE VOLUME PURGED: 4.5 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1123
AA-UW-1 is yellow monument well located in Field along Boulder Hwy

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 52.01

drawdown setpoint 52.31 (+0.3')

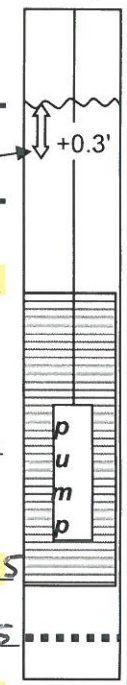
top of screen 54.5

Pump intake[2] 56.00 (depth from MP)

bottom of screen 64.5

Measured total depth from TOC 69.5

Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID MW-4 DATE 10-11-12
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Light Rain

Surveyed Measuring Point (MP): TOC Elevation: 1800.61
Depth to top 38 / 58 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model MP50 volume (bladder plus tubing) _____

TIMET®

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			115	.16	N/A	.1	N/A	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1155	51.50							
1200	51.54	24.10	4598	1.32	30.6	7.46	.58	5 sec. Dis, 25 sec. Refill
1203	51.55	24.12	4605	1.17	29.7	7.45	.36	
1206	51.56	24.17	4592	1.12	28.7	7.44	.29	250 ml/min
1209	51.58	24.42	4573	1.02	28.1	7.44	.16	
1212	51.59	24.48	4516	1.00	28.0	7.43	.26	
1215	51.60	24.47	4246	1.14	28.5	7.41	.29	
1218	51.62	24.48	3886	1.49	30.1	7.41	.20	
1221	51.63	24.49	3821	1.55	30.9	7.38	.23	
1224	51.63	24.47	3802	1.59	31.6	7.37	.21	
1227	51.64	24.46	3799	1.58	31.3	7.38	.16	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 51.50

drawdown setpoint 51.80

+0.3'

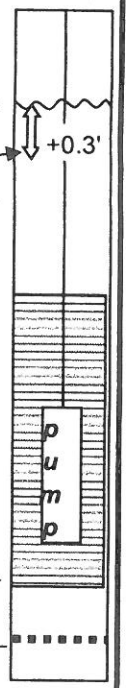
top of screen 38

Pump intake[2] _____ (depth from MP)

bottom of screen 58

Measured total depth from TOC _____

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: 51.50 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1230
DEPTH TO WATER AT COMPLETION OF SAMPLING: 51.79
TIME AT COMPLETION OF SAMPLING: 1325
CUMULATIVE VOLUME PURGED: 2 gal

NOTES / COMMENTS: Located near contractor entrance

Fe^{2+}: .306 @ 1125

Note 1: Shaded cells should be filled in prior to going into the field

AA-27

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-27 DATE 10-15-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 41.5 / 61.5 bottom of screen (below MP)
Pump Intake at 72.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate 200ml per minute; Pump settings: 60 psi, 2 cpm, 46 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%[1]	
Values:			144	.69	—	.10	.013	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1313	67.78	START	PUMP					Purge water was clear with no odor
1318	67.85	26.47	4809	7.62	28.2	6.89	.48	Turbidity readings were within drinking
1321	67.87	26.37	4808	6.72	25.6	6.92	.56	water standards < 10 NTU
1324	67.89	26.31	4807	6.89	26.4	6.89	.23	
1327	67.90	26.28	4807	6.89	27.0	6.89	.13	
1330	67.90	26.23	4805	6.89	27.6	6.89	.11	
1333	67.90	26.26	4804	6.89	28.3	6.89	.12	
1335	Began	sample	collection					

RECORDED PARAMETERS

INI. DEPTH TO WATER: 67.78 (static WL with out pump in)
DEPTH TO WATER: 67.78 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1335
DEPTH TO WATER AT COMPLETION OF SAMPLING: 67.91
TIME AT COMPLETION OF SAMPLING: 1350
CUMULATIVE VOLUME PURGED: 4.4 liters

NOTES / COMMENTS: Fe^{2} = 0.0 mg/L @ 1331
Yellow monument well located in field along Boulder Hwy.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 67.78

drawdown setpoint 68.08

+0.3'

top of screen 41.5

Pump intake[2] 72.00 (depth from MP)

pump

bottom of screen 61.5

Measured total depth from TOC

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field

AA-09

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-09 DATE 10-15-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Clear, Warm

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 30.00 / 65.00 bottom of screen (below MP)
Pump Intake at 42.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate 150 ml per minute; Pump Settings: 40 psi, 1 cpm, 5 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			227	.39	-	.10	.13	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1108	38.37	START	PUMP					Purge water was clear with no odor
1113	38.40	26.85	7432	6.84	61.5	6.97	1.87	Turbidity readings were within drinking
1116	38.40	26.07	7558	4.87	52.5	7.08	1.62	water standards < 10 NTU.
1119	38.40	25.99	7553	4.25	48.5	7.13	1.99	
1122	38.40	25.93	7564	3.92	46.7	7.17	1.30	
1125	38.40	25.95	7572	3.84	45.9	7.18	1.52	
1128	38.40	25.88	7567	3.74	45.0	7.18	1.11	
1130	Sample	collection	began					

RECORDED PARAMETERS

INI. DEPTH TO WATER: 38.37 (static WL with out pump in)
DEPTH TO WATER: 38.37 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1130
DEPTH TO WATER AT COMPLETION OF SAMPLING: 38.40
TIME AT COMPLETION OF SAMPLING: 1146
CUMULATIVE VOLUME PURGED: 3.3 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1126
Yellow monument well located in BMI complex

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 38.37

drawdown setpoint 38.67

+0.3'

top of screen 42.00

Pump intake[2] 42.00 (depth from MP)

pump

bottom of screen 65.00

Measured total depth from TOC 69.00

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID J204 DATE 10-15-12
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Sunny, warm

Surveyed Measuring Point (MP): TOC Elevation: 1774.19
Depth to top 15 / 45 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:						.1		
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1302	36.70							
1307	36.71	26.34	1591	4.90	33.7	7.05	0.89	
1310	36.72	26.27	1589	4.95	33.4	7.05	0.78	
1313	36.71	26.00	1578	4.77	42.0	7.04	0.69	
1316	36.72	25.94	1576	4.52	45.2	7.04	0.58	
1319	36.73	25.89	1571	4.57	46.6	7.04	0.50	stable: Begin Sampling →
								R: 20, Dis: 10 sec
								300 mL/min

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 36.70 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1319
DEPTH TO WATER AT COMPLETION OF SAMPLING: 36.79
TIME AT COMPLETION OF SAMPLING: 1500
CUMULATIVE VOLUME PURGED: ~1.5 gal.

NOTES / COMMENTS:

Fe 2+ : .348 @ 1317

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 36.70

drawdown setpoint 36.99
37.00

+0.3'

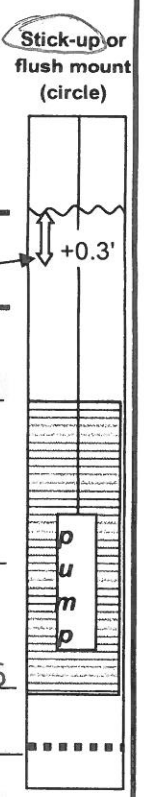
top of screen 15

Pump intake[2] _____
(depth from MP)

bottom of screen 45

Measured total depth from TOC _____

Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID MW-6R DATE 10-15-12
Field Personnel JON Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
SUNNY, warm

Surveyed Measuring Point (MP): TOC Elevation: 1812.63
Depth to top 39.67 / 59.67 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED MP50 volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1035	42.86							
1040	42.88	25.83	4398	1.47	51.9	7.41	0.44	7 sec Discharge, 23 sec Refill
1043	42.88	25.61	4447	0.74	43.4	7.41	0.20	Flow: 250 ML/MIN
1046	42.88	25.36	4462	0.38	38.6	7.40	0.22	
1049	42.89	25.53	4485	0.31	35.0	7.40	0.29	
1052	42.89	25.62	4500	0.31	34.2	7.40	0.26	
1055	42.89	25.39	4482	0.25	29.9	7.40	0.25	Stable, Sample begins

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 42.86

drawdown setpoint 42.91

+0.3'

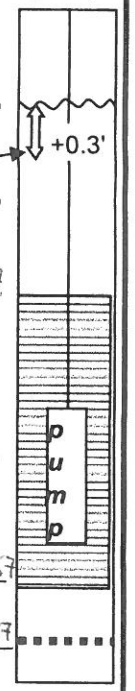
top of screen 39.67

Pump intake[2] _____
(depth from MP)

bottom of screen 59.67

Measured total depth from TOC 59.67

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: N/A (static WL with out pump in)
DEPTH TO WATER: 42.86 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1055
DEPTH TO WATER AT COMPLETION OF SAMPLING: 42.91
TIME AT COMPLETION OF SAMPLING: 1220
CUMULATIVE VOLUME PURGED: ~1.5 gal.

NOTES / COMMENTS:

West side of Plant Next to Railroad and Fence Line.

Fe^{2+} : = 0.407

Note 1: Shaded cells should be filled in prior to going into the field

DBMW-1

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID DBMW-1 DATE 10-16-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 19.00 / 49.00 bottom of screen (below MP)
Pump Intake at 38.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 100ml per minute, Pump settings: 30 psi, 1 cpm, 61D

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			211	.42	—	.10	.044	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1302	34.04	START	PUMP					Purge water was clear with no odor
1307	34.14	28.43	7137	5.96	23.7	7.10	1.24	Turbidity readings were within drinking
1310	34.18	27.05	7082	4.94	33.1	6.99	.68	water standards. Drawdown setpoint was
1313	34.21	26.90	7049	4.42	26.2	7.00	.55	exceeded during sample collection.
1316	34.24	26.74	7051	4.35	25.4	7.04	.91	
1319	34.27	26.69	7045	4.23	24.4	7.07	.44	
1322	34.29	26.69	7037	4.20	24.2	7.10	.32	
1325	34.31	26.62	7034	4.30	23.9	7.11	.39	
1330	Began	sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 34.04

drawdown setpoint 34.34

+0.3'

top of screen 19.00

Pump intake[2] 38.00 (depth from MP)

pump

bottom of screen 49.00

Measured total depth from TOC 51.55

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 34.04 (static WL with out pump in)
DEPTH TO WATER: 34.04 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1330
DEPTH TO WATER AT COMPLETION OF SAMPLING: 34.39
TIME AT COMPLETION OF SAMPLING: 1356
CUMULATIVE VOLUME PURGED: 2.8 liters

NOTES / COMMENTS: Fe^2 = 0.0mg/L @ 1320.
Yellow monument well located at the corner of Pabco & Galleria inside of BMI complex

Note 1: Shaded cells should be filled in prior to going into the field

DBMW-3

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID DBMW-3 DATE 10-16-12
Field Personnel Carlos C.

Sampling Organization ____ TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 19.00 / 39.00 bottom of screen (below MP)
Pump Intake at 36.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing) ____

Flowrate: 100ml per minute, Pump settings: 30 psi, 1 cpm, 6 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			37	.49	—	.10	.086	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1110	32.14	START	PUMP					Purge water was clear with no odor
1115	32.22	26.57	1195	7.67	42.3	7.36	1.77	Turbidity readings were within drinking
1118	32.27	25.22	1219	6.31	32.8	7.34	1.30	water standards. Drawdown setpoint was
1121	32.31	25.05	1217	5.48	29.0	7.33	.53	exceeded during sample collection.
1124	32.36	25.04	1218	4.93	27.3	7.33	.86	
1127	32.39	24.97	1216	4.79	26.1	7.33	.54	
1130	32.41	24.88	1217	4.60	25.4	7.33	.29	
1135	Began	sample	collection					

RECORDED PARAMETERS

INI. DEPTH TO WATER: 32.14 (static WL with out pump in)
DEPTH TO WATER: 32.14 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1135
DEPTH TO WATER AT COMPLETION OF SAMPLING: 32.50
TIME AT COMPLETION OF SAMPLING: 1201
CUMULATIVE VOLUME PURGED: 2.5 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1129.
Yellow movement well located in BMI complex across the street from water reclamation plant.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 32.14

drawdown setpoint 32.44

+0.3'

top of screen 19.00

Pump intake[2] 3600 (depth from MP)

pump

bottom of screen 39.00

Measured total depth from TOC 41.95

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID J2D1-R2 DATE 10-16-12
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
SUNNY, 85°F

Surveyed Measuring Point (MP): TOC Elevation: 1773.38
Depth to top 19.0 / 44.0 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:						.1		
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1049	40.03							
1054	40.07	27.11	8610	4.44	70.6	7.18	1.09	Flow @ 475 ml/min.
1057	40.10	27.03	8604	4.32	69.9	7.18	1.22	Refill of 20 sec.
1100	40.11	27.22	8629	4.24	68.2	7.18	0.64	Discharge of 10 sec.
1103	40.13	27.07	8619	4.40	67.6	7.18	0.46	
1106	40.12	27.12	8624	4.30	67.4	7.18	0.80	
1109	40.13	27.20	8633	4.41	66.8	7.18	0.79	
1112	40.14	27.15	8642	4.39	67.0	7.18	0.69	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 40.03

drawdown setpoint 40.33

+0.3'

top of screen 19.0

Pump intake[2] NM (depth from MP)

pump

bottom of screen 44.0

Measured total depth from TOC 47.80

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NA (static WL with out pump in)
DEPTH TO WATER: 40.03 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1113
DEPTH TO WATER AT COMPLETION OF SAMPLING: 40.15
TIME AT COMPLETION OF SAMPLING: 1200
CUMULATIVE VOLUME PURGED: 4.25 gal.

NOTES / COMMENTS:

* @ well yellow Base: Reads R2D1-R2 Should say J2D1-R2

IRON 2+ : 0.082 ppm @ 1110

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPE-110 DATE 10-16-12
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Sunny, hot 86°F

Surveyed Measuring Point (MP): TOC Elevation: 1765.99
Depth to top 25 / 45 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:					✓	.1	Below Drinking Water Stnd.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1215								No Flow yet
1245	40.31							put new bladder in tube.
1250	40.32	27.36	7802	5.00	34.0	7.12	0.99	
1253	40.35	26.70	7688	4.78	37.4	7.15	0.58	Discharge: 3 sec. Refill: 27 sec.
1256	40.37	26.45	7629	4.83	40.9	7.15	0.53	150 mL/min Flow Rate
1259	40.40	26.31	7606	4.60	42.4	7.15	0.59	
1302	40.42	26.34	7589	4.65	43.5	7.15	0.49	
1305	40.43	26.27	7578	4.59	44.1	7.15	0.53	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 40.31

drawdown setpoint 40.61 (+0.3')

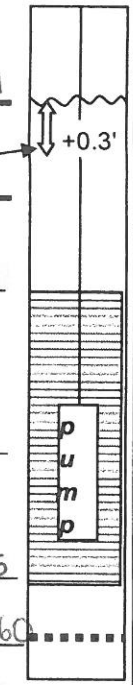
top of screen 25

Pump intake[2] Bottom (depth from MP)

bottom of screen 45

Measured total depth from TOC 49.60

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: 40.31 (static WL with out pump in)
DEPTH TO WATER: 40.30 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1305
DEPTH TO WATER AT COMPLETION OF SAMPLING: 40.48
TIME AT COMPLETION OF SAMPLING: 1430
CUMULATIVE VOLUME PURGED: <1 gal.

NOTES / COMMENTS: Along E. Fence facing Boulder Hwy.

Fe^{2+}: 0.175 @ 1255

Note 1: Shaded cells should be filled in prior to going into the field

DBMW-4

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID DBMW-4 DATE 10-17-12
Field Personnel Carlos C.

Sampling Organization ____ TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 10.00 / 30.00 bottom of screen (below MP)
Pump Intake at 30.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing) ____

Flowrate: 200ml per minute. Pump settings: 30 psi, 2cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			205	.51	—	.10	.18	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1236	26.19	START	PUMP					Purge water was clear with no odor.
1241	26.26	25.56	6853	5.22	-86.3	6.60	1.47	Turbidity readings were within drinking
1244	26.29	25.51	6850	5.24	-99.1	6.62	2.28	water standards <10 NTU
1247	26.29	25.42	6841	5.19	-103.8	6.63	2.09	
1250	26.29	25.36	6841	5.17	-105.7	6.67	1.88	
1253	26.29	25.34	6842	5.05	-106.7	6.71	1.64	
1256	26.29	25.38	6836	5.03	-106.8	6.72	1.32	
1300	Began	sample	collection					

RECORDED PARAMETERS

INI. DEPTH TO WATER: 26.19 (static WL with out pump in)
DEPTH TO WATER: 26.19 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1300
DEPTH TO WATER AT COMPLETION OF SAMPLING: 26.21
TIME AT COMPLETION OF SAMPLING: 1315
CUMULATIVE VOLUME PURGED: 4.8 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1255
Yellow monument well is in open field east of water reclamation plant.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 26.19

drawdown setpoint 26.49

+0.3'

top of screen 10.00

Pump intake[2] 30.00 (depth from MP)

pump

bottom of screen 30.00

Measured total depth from TOC 43.90

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field

DBMW-5

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID DBMW-5 DATE 10-17-12
Field Personnel Carlos C.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top 15.00 / 35.00 bottom of screen (below MP)
Pump Intake at 32.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 200ml per minute, Pump settings: 30 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			200	.57	—	.10	.049	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1037	28.28	START	PUMP					Purge water was clear with no odor
1042	28.35	24.96	6654	6.03	38.4	7.36	.63	Turbidity readings were within drinking
1045	28.37	24.90	6658	5.89	35.2	7.35	.71	water standards < 10 NTU
1048	28.39	24.88	6662	5.77	33.0	7.35	.64	
1051	28.39	24.83	6674	5.74	31.6	7.35	.49	
1054	28.39	24.80	6687	5.61	30.9	7.35	.35	
1057	28.39	24.81	6684	5.49	30.3	7.35	.38	
1100	Began	Sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP
Static WL 28.28

drawdown setpoint 28.58

+0.3'

top of screen 15.00

Pump intake[2] 32.50
(depth from MP)

pump

bottom of screen 35.00
Measured total depth from TOC 38.20

Blank casing (Y/N)

RECORDED PARAMETERS
INI. DEPTH TO WATER: 28.28 (static WL with out pump in)
DEPTH TO WATER: 28.28 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1100
DEPTH TO WATER AT COMPLETION OF SAMPLING: 28.41
TIME AT COMPLETION OF SAMPLING: 1115
CUMULATIVE VOLUME PURGED: 4.6 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1050
Yellow monument well is in open field west of Tuscany

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-108 DATE 10-17-12
Field Personnel JON SCHAPER

Sampling Organization TIMET
Field observations:(weather, well conditions etc.) Hot, Dry, Vegas style

Surveyed Measuring Point (MP): TOC Elevation: 1750.46
Depth to top 26 / 46 bottom of screen (below MP)
Pump Intake at 40' (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing)

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			57	.64	/	.1	0.26	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1145	Flow	Started						trouble w/ pump. Replaced O-Rings
1150	34.26	26.96	1933	6.35	39.3	7.24	2.61	
1153	34.27	26.58	1922	6.35	44.2	7.27	2.50	Flow @ 240 mL/min with
1156	34.27	26.46	1914	6.48	50.4	7.27	2.69	Discharge of 7 sec. Refill of 23.
1159	34.29	26.55	1913	6.22	56.2	7.28	2.39	
1202	34.29	26.51	1912	6.35	56.2	7.29	2.46	
1205	34.30	26.52	1908	6.36	58.3	7.30	2.51	
1208	34.31	26.56	1907	6.45	60.3	7.31	2.69	
1211	34.32	26.54	1902	6.42	59.8	7.32	2.63	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 34.15

drawdown setpoint 34.55

+0.3'

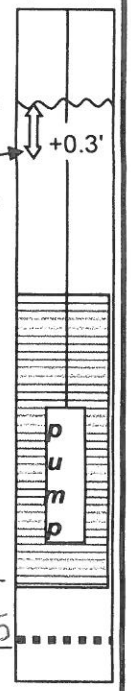
top of screen 26

Pump intake[2] 40 (depth from MP)

bottom of screen 46

Measured total depth from TOC 46.5

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: 34.25 (static WL with out pump in)
DEPTH TO WATER: 34.23 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1215
DEPTH TO WATER AT COMPLETION OF SAMPLING: 34.39
TIME AT COMPLETION OF SAMPLING: 1335
CUMULATIVE VOLUME PURGED: ~ 1.5 gal.

NOTES / COMMENTS: NE Fence Line.

Fe 2+ : 0.487 @ 1155

Note 1: Shaded cells should be filled in prior to going into the field

PC-54

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-54 DATE 10-18-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at 26.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing) ____

Flowrate: 200ml per minute. Pump settings: 30psi, 2cpm, 451D

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%'	
		Values:	183	.052	—	.10	.0536	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1327	22.65	START	PUMP					Purge water was slightly cloudy with no odor
1333	22.66	27.96	6113	1.07	40.5	6.85	128	
1336	22.66	27.70	6101	.69	33.7	6.89	86.7	
1339	22.66	27.56	6098	.55	31.1	6.86	58.9	
1342	22.66	27.50	6109	.53	30.1	6.86	50.4	
1345	22.66	27.54	6105	.52	29.6	6.87	53.6	
1348	22.66	27.55	6108	.53	29.4	6.87	50.9	
1351	22.66	27.57	6102	.52	29.1	6.87	48.9	
1355	Began	sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 22.65

drawdown setpoint 22.95

+0.3'

top of screen ____

Pump intake[2] 26.50 (depth from MP)

pump

bottom of screen ____

Measured total depth from TOC 35.00

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 22.65 (static WL with out pump in)
DEPTH TO WATER: 22.65 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1355
DEPTH TO WATER AT COMPLETION OF SAMPLING: 22.65
TIME AT COMPLETION OF SAMPLING: 1410
CUMULATIVE VOLUME PURGED: 5.6 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1350.
Flush mount well located behind Dottys Casino on the edge of the Road across from the salvage yard.

Note 1: Shaded cells should be filled in prior to going into the field

PC-67

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-67 DATE 10-18-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 11.00 / 35.60 bottom of screen (below MP)
Pump Intake at 17.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 200 ml per minute. Pump settings: 30 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			44	.12	–	.10	7.8	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1128	12.43	START	PUMP					Purge water was cloudy with no odor
1133	12.43	24.97	1310	3.52	22.1	6.94	932	
1136	12.43	24.92	1299	2.89	21.0	6.94	907	
1139	12.43	24.89	1306	2.74	20.6	6.94	688	
1142	12.43	24.85	1318	2.49	20.2	6.94	548	
1145	12.43	24.89	1334	2.22	19.7	6.94	401	
1148	12.43	24.85	1344	2.09	19.4	6.94	336	
1151	12.43	24.83	1362	1.96	19.0	6.93	290	
1154	12.43	24.83	1379	1.80	18.5	6.93	249	
1157	12.43	24.82	1399	1.69	18.2	6.93	194	
1200	12.43	24.82	1413	1.56	17.9	6.93	183	
1203	12.43	24.81	1429	1.49	17.7	6.93	150	
1206	12.43	24.76	1443	1.39	17.4	6.93	111	
1209	12.43	24.74	1456	1.30	17.2	6.93	105	
1212	12.43	24.81	1468	1.21	17.1	6.92	78.1	
1215	12.43	24.76	1478	1.14	16.9	6.92	74.9	
1218	12.43	24.73	1486	1.08	16.7	6.92	71.7	
1220	Began	sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 12.43

drawdown setpoint 12.73

+0.3'

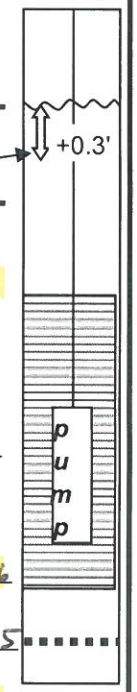
top of screen 11.00

Pump intake[2] 17.00 (depth from MP)

bottom of screen 35.6

Measured total depth from TOC 32.25

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: 12.43 (static WL with out pump in)
DEPTH TO WATER: 12.43 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1220
DEPTH TO WATER AT COMPLETION OF SAMPLING: 12.43
TIME AT COMPLETION OF SAMPLING: 1235
CUMULATIVE VOLUME PURGED: 10.4 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1205
Flush mount well located at the corner of Amber & Rolly

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID CLD4-R DATE 10-18-12
Field Personnel Jon Schsper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Hot dry

Surveyed Measuring Point (MP): TOC Elevation: 1781.96
Depth to top 27 / 47 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:					—	.1		
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1057	Pump on,		Water	Flowing				
1102	36.26	25.33	8308	0.99	58.4	6.55	96	Dis: 5 sec, Refill: 25
1105	36.28	25.16	8074	0.63	59.0	6.55	140	Flow: 250 mL/MIN.
1108	36.31	25.16	8019	0.51	58.2	6.56	144	
1111	36.34	25.15	7962	0.48	56.9	6.55	157	
1114	36.38	25.07	7817	0.44	57.3	6.52	164	
1117	36.41	25.15	7810	0.53	55.2	6.52	194	Water: cloudy no odor
1120	36.42	25.17	7800	0.59	54.9	6.52	210	
								Begin sampling

RECORDED PARAMETERS

INI. DEPTH TO WATER: — (static WL with out pump in)
DEPTH TO WATER: 36.22 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1120
DEPTH TO WATER AT COMPLETION OF SAMPLING: 36.46
TIME AT COMPLETION OF SAMPLING: 1230
CUMULATIVE VOLUME PURGED: 2 gal.

NOTES / COMMENTS: Well along West Fence Line.
* TKN well
Fe 2+ : 1.678 @ 1110

Note 1: Shaded cells should be filled in prior to going into the field

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 36.22

drawdown setpoint 36.53

+0.3'

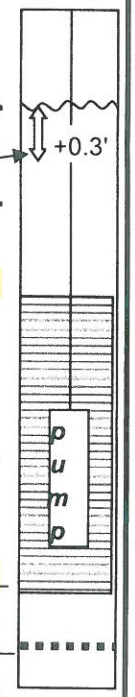
top of screen 27

Pump intake[2] N/A (depth from MP)

bottom of screen 47

Measured total depth from TOC 50

Blank casing (Y/N)



TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-109 DATE 10-18-12
Field Personnel Jon Schaper

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, clear, slight breeze

Surveyed Measuring Point (MP): *TOC* Elevation: 1756.6
Depth to top 26 / 46 bottom of screen (below MP)
Pump Intake at 40.50 (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			257	.27	✓	.10	Below drinking Water Stnd.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1300	Flow	Started						
1305	36.61	28.2	8549	3.49	48.7	7.11	2.64	Flow: 225 mL/min
1308	36.62	28.00	8552	3.42	49.3	7.07	2.94	@ 20 sec. Refill, 10 sec Dis.
1311	36.63	27.68	8520	2.90	49.4	7.04	1.00	
1314	36.62	27.77	8531	2.95	49.6	7.03	0.74	
1317	36.63	27.84	8544	2.64	49.8	7.03	0.59	
1320	36.64	28.01	8574	2.74	50.0	7.03	0.50	
1323	36.65	28.21	8602	2.76	50.1	7.02	0.46	stable, start sampling →

RECORDED PARAMETERS
INI. DEPTH TO WATER: 36.62 (static WL with out pump in)
DEPTH TO WATER: 36.60 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1323
DEPTH TO WATER AT COMPLETION OF SAMPLING: 36.67
TIME AT COMPLETION OF SAMPLING: 1500
CUMULATIVE VOLUME PURGED: 5.1 L.

NOTES / COMMENTS: Well along NE fence line

Fe^{2+}: 0.040 @ 1321

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP
Static WL 36.60

drawdown setpoint 36.90 (+0.3')

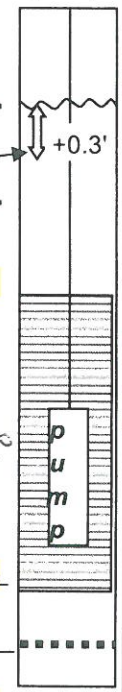
top of screen 26

Pump intake[2] 40.50 (depth from MP)

bottom of screen 46

Measured total depth from TOC _____

Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field

PC-124

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-124 DATE 10-22-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top NM / NM bottom of screen (below MP)
Pump Intake at 29.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 200ml per minute. Pump settings: 30 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			33.5	.26	–	.10	.60	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1114	24.57	START	PUMP					Purge water was clear with no odor
1119	24.65	25.81	1121	3.59	25.2	7.21	50.9	Turbidity readings dropped within drinking
1122	24.69	25.69	1119	2.98	22.7	7.19	24.5	water standards.
1125	24.71	25.61	1119	2.75	19.8	7.20	11.5	
1128	24.71	25.64	1118	2.63	18.1	7.21	7.0	
1131	24.71	25.59	1117	2.63	17.3	7.21	6.02	
1134	24.71	25.64	1116	2.61	16.3	7.22	4.8	
1137	24.72	25.60	1116	2.59	15.8	7.22	4.29	
1140	Began	sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 24.57

drawdown setpoint 24.87

+0.3'

top of screen NM

Pump intake[2] 29.00 (depth from MP)

bottom of screen NM

Measured total depth from TOC 35.00

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 24.57 (static WL with out pump in)
DEPTH TO WATER: 24.57 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1140
DEPTH TO WATER AT COMPLETION OF SAMPLING: 24.70
TIME AT COMPLETION OF SAMPLING: 1157
CUMULATIVE VOLUME PURGED: 7.2 liters

NOTES / COMMENTS: Fe^{2} = 0.0 mg/L @ 1130. Flush mount well located in west bound shoulder of Sunset.

Note 1: Shaded cells should be filled in prior to going into the field

PC-24

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-24 DATE 10-22-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Clear, Warm

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 15.00 / 30.00 bottom of screen (below MP)
Pump Intake at 25.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 200 ml per minute, Pump settings: 30 psi, 2 cpm, .45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			44.7	.12	–	.10	2.1	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1230	20.59	START	PUMP					Purge was lightly cloudy with no odor
1235	20.61	25.55	1478	2.10	38.8	6.36	289	
1238	20.61	25.29	1484	1.47	15.0	6.58	140	Well needs well lid. Top of well
1241	20.61	25.17	1490	1.34	10.7	6.58	57.9	vault is open.
1244	20.61	25.11	1491	1.26	7.6	6.63	25.8	
1247	20.61	25.08	1491	1.23	6.9	6.69	21.3	
1250	20.61	25.09	1490	1.23	7.8	6.73	19.9	
1253	20.61	25.05	1489	1.23	8.4	6.77	19.1	
1255	Began	sample	collection					

RECORDED PARAMETERS

INI. DEPTH TO WATER: 20.59 (static WL with out pump in)
DEPTH TO WATER: 20.59 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1255
DEPTH TO WATER AT COMPLETION OF SAMPLING: 20.60
TIME AT COMPLETION OF SAMPLING: 1311
CUMULATIVE VOLUME PURGED: 5.0 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1252
Flush mount well located on west bound shoulder of sunset.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 20.59

drawdown setpoint 20.89

+0.3'

top of screen 15.00

Pump intake[2] 25.00 (depth from MP)

pump

bottom of screen 30.00

Measured total depth from TOC 29.05

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-108 DATE Oct 22, 2012
Field Personnel J. Schaper

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Sunny, windy, 80°

Surveyed Measuring Point (MP): *TOC* Elevation: 1750.46
Depth to top 26 / 46 bottom of screen (below MP)
Pump Intake at 40 (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing)

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1340	start	Flow						
1345	34.10	26.40	1932	3.35	62.3	7.37	0.89	
1348	34.10	26.14	1928	3.03	61.4	7.36	0.76	Flow: 250 mL/min
1351	34.11	25.94	1924	2.72	59.3	7.36	0.58	
1354	34.11	25.89	1921	2.76	58.4	7.36	0.63	
1357	34.11	25.80	1920	2.71	58.2	7.36	0.78	
1400	34.11	25.89	1916	2.69	58.1	7.36	0.59	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 34.09

drawdown setpoint 34.39

+0.3'

top of screen 26

Pump intake[2] 26 (depth from MP)

pump

bottom of screen 46

Measured total depth from TOC 46.5

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 34.09 (static WL with out pump in)
DEPTH TO WATER: 34.10 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1401
DEPTH TO WATER AT COMPLETION OF SAMPLING: 34.11
TIME AT COMPLETION OF SAMPLING: 1415
CUMULATIVE VOLUME PURGED:

NOTES / COMMENTS:

* RESAMPLE FOR HEX CHROM ONLY

Fe^{2+}: 0.626 @ 1358

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID 5202-R2 DATE Oct 22, '12
Field Personnel J. Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.) warm, clear, breezy

Surveyed Measuring Point (MP): TOC Elevation: 1772.46
Depth to top 28.5 / 48.5 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:					✓	.1		
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1015	Pump	on	with	Flow				
1020	42.67	26.44	8776	1.85	79.3	7.07	0.26	Flow: 400 mL/min.
1023	42.68	26.45	8833	1.46	69.0	7.10	0.18	
1026	42.69	26.47	8842	1.53	63.6	7.11	0.24	Dis.: 5 sec w/ 25 sec. recharge
1029	42.69	26.32	8809	1.51	60.5	7.12	0.34	
1032	42.70	26.41	8822	1.48	58.3	7.12	0.38	
1035	42.72	26.22	8792	1.46	56.6	7.12	0.43	
1038	42.71	26.26	8800	1.39	55.0	7.12	0.38	

Well information

Dedicated pump (Y/ N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 42.65

drawdown setpoint 42.95

+0.3'

top of screen 28.5

Pump intake[2] _____ (depth from MP)

pump

bottom of screen 48.5

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 42.65 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1040
DEPTH TO WATER AT COMPLETION OF SAMPLING: 42.73
TIME AT COMPLETION OF SAMPLING: _____
CUMULATIVE VOLUME PURGED: [redacted] 9.2 L.

NOTES / COMMENTS:

@ Storage Area

MS/MSP and duplicate Well.

* Dup-2 *

Fe^{2+}: 0.000 @ 1036

Note 1: Shaded cells should be filled in prior to going into the field

TMP2-106 **TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet**

Well ID _____ DATE 10/23/12
Field Personnel S. Holst

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Cool, Breezy, Partly Cloudy

Surveyed Measuring Point (MP): TOC Elevation: 1742.25
Depth to top 19 / 39 bottom of screen (below MP)
Pump Intake at 36' (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED MP50 volume (bladder plus tubing) _____

TIMET®

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			225	.08	-	0.1		Below Drinking water standards
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
0955	31.78							Pump on
0958	31.80							
1001	31.80	24.66	7521	1.91	101	7.19	1.58	Discharge 33 sec Refill 27 sec
1004	31.80	24.60	7540	1.51	94.9	7.21	1.10	PSI - 40 psi Flow - 160 ml/min
1007	31.80	24.55	7545	1.10	85.4	7.20	0.43	Discharge 5 sec Refill 25 sec
1010	31.80	24.49	7537	0.94	81.2	7.20	0.32	PSI 40 - Flow - 200 ml/min
1013	31.80	24.46	7525	0.84	77.2	7.20	0.14	
1016	31.80	24.43	7518	0.79	74.2	7.21	0.29	
1019	31.80	24.36	7505	0.75	71.5	7.21	0.33	
1022	31.80	24.40	7504	0.73	68.7	7.21	0.38	
1023		Begin Filling Containers						

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 31.78

drawdown setpoint 31.08 (+0.3')

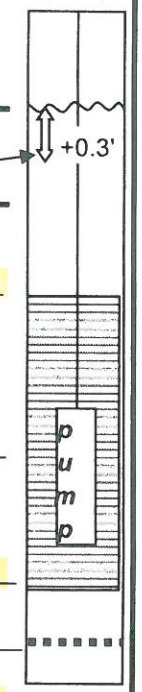
top of screen 19

Pump intake[2] 36' (depth from MP)

bottom of screen 37

Measured total depth from TOC 39

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: 31.78 (static WL with out pump in)
DEPTH TO WATER: 31.76 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1023
DEPTH TO WATER AT COMPLETION OF SAMPLING: 31.80
TIME AT COMPLETION OF SAMPLING: 1130
CUMULATIVE VOLUME PURGED: 2 gal

NOTES / COMMENTS:
Dedicated Tubing only
Located in Back 40

Fe^{2+} = .081 ppm @ 1023

Note 1: Shaded cells should be filled in prior to going into the field

TMP2-107 **TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet**

Well ID _____ DATE 10/23/12
Field Personnel S. Holst

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Breezy, partly cloudy, cool

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 19 / 39 bottom of screen (below MP)
Pump Intake at 38 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED MP50 volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			7.16	.02	/	0.1	0.33	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1220	32.70							
1236								Pump on
1239	32.72							Discharge 5 lpm Refill 25 sec
1242	32.73	26.25	23840	0.31	67.6	6.84	5.69	PIT -40 Flow - 250 ml/min
1245	32.73	26.11	23870	0.41	62.0	6.83	5.56	
1248	32.73	25.95	23880	0.28	58.4	6.84	5.61	
1251	32.73	25.91	23880	0.25	55.5	6.84	4.20	
1254	32.73	25.91	23870	0.24	53.0	6.84	5.27	
1257	32.73	25.89	23870	0.24	51.4	6.84	5.37	
1300	32.73	25.73	23860	0.23	49.3	6.84	4.89	
1301								Stable Begin Filling Containers

Well information

Dedicated pump (Y N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 32.70

drawdown setpoint 33.00

+0.3'

top of screen 19

Pump intake[2] 38 (depth from MP)

bottom of screen 39

Measured total depth from TOC ~40'

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 32.70 (static WL with out pump in)
DEPTH TO WATER: 32.68 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1301
DEPTH TO WATER AT COMPLETION OF SAMPLING: 32.73
TIME AT COMPLETION OF SAMPLING: 1405
CUMULATIVE VOLUME PURGED: 2 gal

NOTES / COMMENTS:

Dedicated Tubing only
Back 40 Along warm spring

Fe^{2+} = .045 ppm @ 1301

Note 1: Shaded cells should be filled in prior to going into the field

TKN Sample = 1131
PCBs - 1140

CMT-101

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID _____ DATE 10/24/12
Field Personnel S. Holst

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
warm, slight Breeze, clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top _____ / _____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type CMT well Pump
Pump Model Solinst volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			265	0.24	—	0.1		Below DW Standards
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1001	33.86							
1021								Pump on
								Discharge 15sec Refill-15sec
								~28psi Flow-500ml/min
1032								
1042		23.56	3939	6.42	-139	7.32	2.08	Expected Flow well. All Decon water
1045		23.14	5285	5.44	-140	7.31	1.49	
1048		22.77	5929	4.69	-139	7.32	1.12	
1051		22.77	6419	4.38	-134	7.32	0.91	
1054		22.71	6964	3.93	-137	7.32	0.71	
1057		22.86	7463	3.51	-134	7.31	1.11	YSI Turned off. Restarted Log
1100		23.17	8048	3.06	-130	7.31	0.66	
1103		23.31	8278	2.90	-128	7.31	0.51	
1106		23.53	8540	2.64	-125	7.31	0.67	
1109		23.53	8686	2.47	-122	7.31	0.22	
1112		23.88	8781	2.34	-121	7.32	0.38	
1115		24.06	8856	2.40	-118	7.32	0.46	
1116			well	stalk	Begin	Filling	Container	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP
Static WL 33.86'

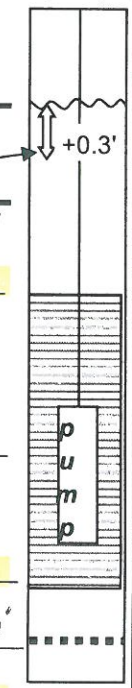
drawdown setpoint → +0.3'
N/A
CMT well

top of screen _____

Pump intake[2] ~50
(depth from MP)

bottom of screen _____
Measured total depth from TOC ~51'

Blank casing (Y/N)



RECORDED PARAMETERS
INI. DEPTH TO WATER: 33.86 (static WL with out pump in)
DEPTH TO WATER: NA (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1116
DEPTH TO WATER AT COMPLETION OF SAMPLING: 34.55
TIME AT COMPLETION OF SAMPLING: 1233
CUMULATIVE VOLUME PURGED: 1 Gal

NOTES / COMMENTS:
51' x 0.434 psi = ~22 psi

Fe^{2+} = .099 ppm @ 1116

Note 1: Shaded cells should be filled in prior to going into the field

PC-28

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-28 DATE 10-25-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 10.00 / 19.50 bottom of screen (below MP)
Pump Intake at 15.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 200 ml per minute, Pump settings: 20 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			221	.14	—	.10	9.7	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1119	10.49	START	PUMP					Purge water was cloudy with no odor
1124	10.50	26.02	7493	1.71	12.7	7.16	671	
1127	10.50	26.27	7469	1.56	19.5	7.10	501	
1130	10.50	26.25	7438	1.56	21.9	7.07	373	
1133	10.50	26.23	7405	1.57	23.2	7.06	330	
1136	10.50	26.27	7379	1.59	23.9	7.05	362	
1139	10.50	26.21	7365	1.58	22.9	7.05	309	
1142	10.50	26.43	7355	1.55	23.7	7.05	221	
1145	10.50	26.40	7365	1.55	24.1	7.05	165	
1148	10.50	26.48	7381	1.52	24.6	7.05	102	
1151	10.50	26.48	7388	1.47	25.1	7.05	97.8	
1154	10.50	26.41	7400	1.50	25.0	7.05	93.9	
1157	10.50	26.52	7409	1.47	25.1	7.04	99.1	
1200	Began	sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 10.49

drawdown setpoint 10.79

+0.3'

top of screen 10.00

Pump intake[2] 15.00 (depth from MP)

pump

bottom of screen 19.50

Measured total depth from TOC 19.70

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 10.49 (static WL with out pump in)
DEPTH TO WATER: 10.49 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1200
DEPTH TO WATER AT COMPLETION OF SAMPLING: 10.49
TIME AT COMPLETION OF SAMPLING: 1215
CUMULATIVE VOLUME PURGED: 8.2 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1140.
Flush mount well located across from Elementary School.

Note 1: Shaded cells should be filled in prior to going into the field

AA-11

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-11 DATE 10-25-12
Field Personnel Carlos C.

Sampling Organization ____ TIMET
Field observations:(weather, well conditions etc.) ____
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation: ____
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at ____ (ft. below MP)
Purging Device - pump type ____
Pump Model ____ volume (bladder plus tubing) ____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
								Static water level is (30.56) even with bladder pump intake. There is not enough water in well to purge and collect samples. Well considered near dry.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 30.56

drawdown setpoint ____

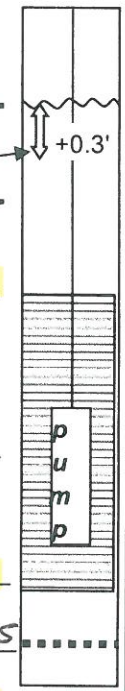
top of screen ____

Pump intake[2] ____
(depth from MP)

bottom of screen ____

Measured total depth from TOC 31.55

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: ____ (static WL with out pump in)
DEPTH TO WATER: ____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:____
DEPTH TO WATER AT COMPLETION OF SAMPLING:____
TIME AT COMPLETION OF SAMPLING:____
CUMULATIVE VOLUME PURGED: ____

NOTES / COMMENTS: ____

Note 1: Shaded cells should be filled in prior to going into the field

AA-19

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-19 DATE 10-25-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top _____/_____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type _____
Pump Model _____ volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
								Well was completely dry. No samples collected.

Well information

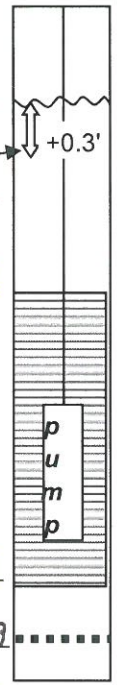
Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL DRY

drawdown setpoint



top of screen _____

Pump intake[2] _____
(depth from MP)

bottom of screen _____

Measured total depth from TOC 44.19

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: _____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:_____
DEPTH TO WATER AT COMPLETION OF SAMPLING:_____
TIME AT COMPLETION OF SAMPLING:_____
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: _____

Note 1: Shaded cells should be filled in prior to going into the field

AA-15

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-15 DATE 10-25-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top _____/_____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type _____
Pump Model _____ volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
								Static water level below (42.49) bladder pump intake. There is not enough water in well to use bladder pump. Well not sampled. Well near dry.

RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: _____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:_____
DEPTH TO WATER AT COMPLETION OF SAMPLING:_____
TIME AT COMPLETION OF SAMPLING:_____
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: _____

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 42.49

drawdown setpoint _____

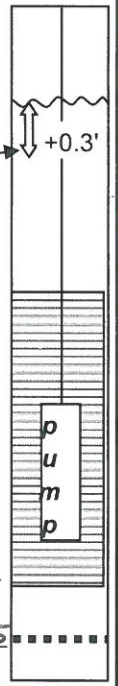
top of screen _____

Pump intake[2] _____
(depth from MP)

bottom of screen _____

Measured total depth from TOC 42.65

Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-105 DATE Oct 25, 2012
Field Personnel J. Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
SUNNY, 75°F, calm winds

Surveyed Measuring Point (MP): TOC Elevation: 1736.68'
Depth to top 19 / 39 bottom of screen (below MP)
Pump Intake at 38 (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing)

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1038	Start	Pump	with	Flow				
1043	33.08	23.50	1076	2.86	96.7	7.20	0.66	Flow: 125 mL/min.
1046	33.12	23.88	1091	2.15	84.6	7.21	0.52	
1049	33.15	24.08	1095	2.01	79.6	7.21	0.63	
1052	33.17	24.40	1099	1.98	74.3	7.21	0.69	
1055	33.20	24.45	1097	1.99	71.3	7.21	0.88	
1058	33.23	24.33	1095	2.01	70.0	7.22	0.96	stable begin sampling @ 1102
1101	33.23	/	/	/	/	/	/	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 33.00

drawdown setpoint 33.30

+0.3'

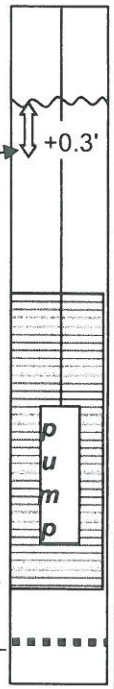
top of screen 19

Pump intake[2] 38' (depth from MP)

bottom of screen 39

Measured total depth from TOC 39

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: 33.0 (static WL with out pump in)
DEPTH TO WATER: 32.99 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1102
DEPTH TO WATER AT COMPLETION OF SAMPLING: 33.29
TIME AT COMPLETION OF SAMPLING: 1210
CUMULATIVE VOLUME PURGED: 4L.

NOTES / COMMENTS:

Back corner of property

Fe^{2+}: 0.000 @ 1046

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID M-129 DATE Oct 25, 2012
Field Personnel Jon Schaper

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)

Surveyed Measuring Point (MP): *TOC* Elevation: 1747.26
Depth to top 20 / 40 bottom of screen (below MP)
Pump Intake at 36' (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing)

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1225	Flow	started →						Water was sediment filled when
1230	30.59	25.16	8161	1.95	168.9	7.16	OR	pump 1st started, raw to brown.
1233	30.62	25.27	8160	2.10	159.8	7.15	OR	cleared up a bit as pump
1236	30.63	25.74	8220	1.94	143.3	7.16	670	raw longer -
1239	30.65	26.05	8285	1.93	131.8	7.15	603	
1242	30.67	26.13	8332	1.94	120.3	7.14	534	Flow @ 100 mL/min
1245	30.68	26.32	8362	1.93	117.7	7.14	339	
1248	30.69	26.43	8403	1.90	110.5	7.14	340	
1251	30.72	26.25	8392	1.88	106.0	7.14	329	

RECORDED PARAMETERS
INI. DEPTH TO WATER: 30.55 (static WL with out pump in)
DEPTH TO WATER: 30.55 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1252
DEPTH TO WATER AT COMPLETION OF SAMPLING: 30.78
TIME AT COMPLETION OF SAMPLING: 1330
CUMULATIVE VOLUME PURGED: 3.0(L)

NOTES / COMMENTS: Located along West Fence Line. NW Corner of property.

Fe 2+ : 2.602 @ 1237 ppm

Note 1: Shaded cells should be filled in prior to going into the field

Well information

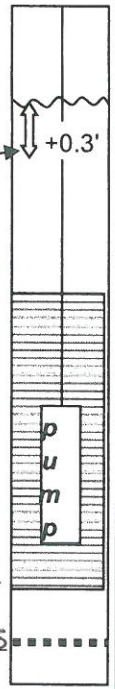
Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 30.55

drawdown setpoint 30.85



top of screen 20

Pump intake[2] 36 (depth from MP)

bottom of screen 40

Measured total depth from TOC 42.85

Blank casing (Y/N)

POU-3

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID POU-3 DATE 11-28-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 35.00 / 65.00 bottom of screen (below MP)
Pump Intake at 43.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 200 ml per minute, Pump settings: 40 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1105	39.12	START	PUMP					Purge water was clear with no odor
1108	39.15	23.77	1096	4.25	62.7	7.16	4.31	Turbidity readings were within
1111	39.15	23.99	1242	2.85	54.6	7.20	1.55	drinking water standards <10NTU
1114	39.15	24.23	1301	1.08	47.8	7.22	1.34	
1117	39.15	24.30	1314	.71	44.7	7.23	1.39	
1120	39.15	24.36	1316	.56	42.1	7.23	1.31	
1123	39.15	24.42	1316	.50	39.1	7.24	1.19	
1126	39.15	24.44	1311	.44	36.6	7.24	1.05	
1129	39.15	24.46	1301	.41	36.2	7.25	1.02	
1132	39.15	24.48	1297	.38	33.7	7.25	1.10	
1135	39.15	24.51	1285	.37	31.5	7.26	1.00	
1140	Began	Sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 39.12

drawdown setpoint 39.42

+0.3'

top of screen 35.00

Pump intake[2] 43.00 (depth from MP)

pump

bottom of screen 65.00

Measured total depth from TOC

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 39.12 (static WL with out pump in)
DEPTH TO WATER: 39.12 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1140
DEPTH TO WATER AT COMPLETION OF SAMPLING: 39.13
TIME AT COMPLETION OF SAMPLING: 1155
CUMULATIVE VOLUME PURGED: 7.0 liters

NOTES / COMMENTS: Ferrous iron = 0.0 mg/L @ 1130
Yellow monument well located in BMI complex across from Jokers Wild casino.

Note 1: Shaded cells should be filled in prior to going into the field

POD-2R

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID POD-2R DATE 11-28-12
Field Personnel Carlos C.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at ____ (ft. below MP)
Purging Device - pump type ____
Pump Model ____ volume (bladder plus tubing) ____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
								Static water level (63.81) is below Bladder Pump intake. Well is almost dry. No samples collected

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 63.81

drawdown setpoint 64.39

+0.3'

top of screen ____

Pump intake[2] ____
(depth from MP)

pump

bottom of screen ____

Measured total depth from TOC 64.60

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: ____ (static WL with out pump in)
DEPTH TO WATER: ____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:____
DEPTH TO WATER AT COMPLETION OF SAMPLING:____
TIME AT COMPLETION OF SAMPLING:____
CUMULATIVE VOLUME PURGED: ____

NOTES / COMMENTS: ____

Note 1: Shaded cells should be filled in prior to going into the field

AA-20

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-20 DATE 10-29-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 10.00 / 30.00 bottom of screen (below MP)
Pump Intake at 32.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 100ml per minute; Pump settings: 30 psi, 1 cpm, 5 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			.220	.65	—	.10	.12	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1128	31.43	START	PUMP					Purge water was clear with no odor
1133	31.44	26.08	7387	7.12	-5.3	7.30	6.46	Turbidity readings were within drinking
1136	31.44	26.04	7373	6.64	12.7	7.30	6.54	water standards < 10 NTU.
1139	31.44	25.85	7372	6.48	20.8	7.30	1.68	
1142	31.44	26.08	7351	6.46	26.5	7.29	2.46	
1145	31.44	26.21	7355	6.51	30.4	7.29	1.26	
1148	31.44	26.40	7353	6.59	33.1	7.27	2.37	
1151	31.44	26.27	7358	6.61	34.7	7.30	1.78	
1155	Began	sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 31.43

drawdown setpoint 31.73 (+0.3')

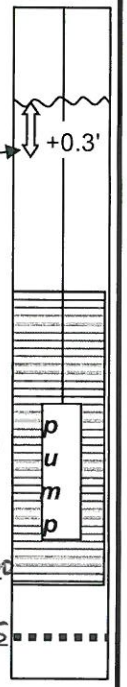
top of screen 10.00

Pump intake[2] 32.00 (depth from MP)

bottom of screen 30.00

Measured total depth from TOC 33.05

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: 31.43 (static WL with out pump in)
DEPTH TO WATER: 31.43 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1155
DEPTH TO WATER AT COMPLETION OF SAMPLING: 31.43
TIME AT COMPLETION OF SAMPLING: 1220
CUMULATIVE VOLUME PURGED: 2.7 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1150
Yellow monument well in BMI complex across from water reclamation plant.

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID EWQa1-12 DATE 10-29-12
Field Personnel JON SCHAPEIR

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
SUNNY, 80°, Calm winds

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top 31 / 51 bottom of screen (below MP)
Pump Intake at 47' (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing)

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1103	Flow	started						No odor, clear
1108	41.81	25.60	7106	0.46	61.3	7.01	30.6	200 mL/min
1111	41.81	25.60	7101	0.36	58.9	7.01	30.0	
1114	41.82	25.58	7103	0.31	57.6	7.01	29.4	
1117	41.83	25.66	7101	0.29	56.6	7.01	30.2	
1120	41.84	25.50	7081	0.29	55.2	7.01	34.0	
1123	41.85	25.47	7069	0.28	53.1	7.01	33.2	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 41.80

drawdown setpoint 42.10

+0.3'

top of screen 31'

Pump intake[2] 47' (depth from MP)

bottom of screen 51'

Measured total depth from TOC 58.84

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 41.80 (static WL with out pump in)
DEPTH TO WATER: 41.79 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1125
DEPTH TO WATER AT COMPLETION OF SAMPLING:
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 4 L.

NOTES / COMMENTS: Well is N of water treatment effluent.

Per Dave: Well was Dup: Dup-3, MS/MSD

Fe^{2+} : 0.09

Note 1: Shaded cells should be filled in prior to going into the field

CLDi-R

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID CLDi-R DATE 10-30-12
Field Personnel Carlos C.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top 16.00 / 29.00 bottom of screen (below MP)
Pump Intake at 32.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 200ml per minute. Pump settings: 25psi, 2 cpm, 45ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
		Values:	224	.28	—	.10	.027	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1125	29.61	START	PUMP					Purge water was clear with no odor
1130	29.63	26.72	7512	4.39	51.3	7.03	1.73	Turbidity readings were within drinking
1133	29.63	26.28	7518	2.96	40.8	6.99	.87	water standards < 10 NTU.
1136	29.63	25.96	7511	2.91	37.5	6.98	.51	
1139	29.63	25.47	7507	2.79	33.9	6.97	.33	
1142	29.63	25.69	7498	2.84	31.3	6.98	.20	
1145	29.63	25.63	7483	2.87	30.7	6.98	.27	
1148	29.63	25.67	7482	2.88	30.2	6.99	.19	
1151	29.63	25.59	7490	2.92	29.9	6.99	.23	
1155	Began	sample	collection					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 29.61

drawdown setpoint 29.91

top of screen 16.00

Pump intake[2] 32.00 (depth from MP)

bottom of screen 29.00

Measured total depth from TOC 33.50

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 29.61 (static WL with out pump in)
DEPTH TO WATER: 29.61 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1155
DEPTH TO WATER AT COMPLETION OF SAMPLING: 29.61
TIME AT COMPLETION OF SAMPLING: 1308
CUMULATIVE VOLUME PURGED: 6.0 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1146
Yellow monument well roughly 100 yds east of Tronox fence line.

Note 1: Shaded cells should be filled in prior to going into the field

M-130

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID _____ DATE 10/30/12
Field Personnel S. Holst

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Calm, Clear

Surveyed Measuring Point (MP): TOC Elevation: 1749.23
Depth to top 20 / 40 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):	3%	+/-10%	na	+/- 0.1	+/-10%
Values:	227	0.16	–	0.1	4.5

CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1223	27.09							Pump Problems reason for delay
1246	27.07							Pump on
1300	27.22	26.41	7728	3.82	47	7.01	796	Discharge 7sec Refill - 23sec
1303	27.28	25.85	7620	2.05	45.7	6.97	904	PSI - 40 Flow - To Fast
1306	27.33	25.39	7555	1.71	45.3	6.96	587	Discharge 6sec Refill - 24sec
1309	27.33	25.40	7552	1.63	44.7	6.96	365	PSI - 40 Flow - 225 ml/min
1312	—	—	—	—	—	—	—	Discharge 4sec Flow - 150ml/min
1315	27.34	25.54	7441	2.39	47.6	6.98	246	Refill - 26sec
1318	27.33	25.49	7522	2.23	50.5	6.97	184	Cleaned Flow Cell - Full of Sediment
1321	27.33	25.54	7555	1.76	46.8	6.96	114	
1324	27.33	25.53	7573	1.75	46.1	6.95	93.5	
1327	27.33	25.51	7573	1.71	45.2	6.95	79.4	
1330	27.33	—	—	—	—	—	—	
1333	27.33	25.47	7573	1.63	44.7	6.95	63.6	
1336	27.33	25.47	7575	1.57	44.7	6.95	58.4	
1339	27.33	25.46	7574	1.54	44.9	6.95	44.8	
1342	27.33	25.44	7573	1.60	44.5	6.95	42.6	
1345		25.45	7573	1.58	43.9	6.95	45.9	
1346	well stable Begin Filling Containers							

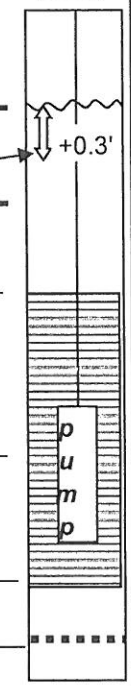
RECORDED PARAMETERS

INI. DEPTH TO WATER: 27.09 (static WL with out pump in)
DEPTH TO WATER: 27.00 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1346
DEPTH TO WATER AT COMPLETION OF SAMPLING: 27.33
TIME AT COMPLETION OF SAMPLING: 1405
CUMULATIVE VOLUME PURGED: 2.5 gal

NOTES / COMMENTS:
Dedicated Tubing only
Along Tronox Fence line

Well information

Dedicated pump (Y / N)
Stick-up or flush mount (circle)
Note: measurements from MP
Static WL 27.09
drawdown setpoint 27.39
+0.3'
top of screen 20
Pump intake[2] _____ (depth from MP)
bottom of screen 40
Measured total depth from TOC _____
Blank casing (Y/N)



Fe^{2+}: 0.753 ppm @ 1346

Note 1: Shaded cells should be filled in prior to going into the field

Timet MW-1

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID _____ DATE 10/30/12
Field Personnel S. Holst

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, calm, clear

Surveyed Measuring Point (MP): TOC Elevation: _____
Depth to top 30 / 60 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			190	0.38	NA	0.1		Below Drinking water Standard
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1051	44.29							
1107								Pump on
1115	44.30							Discharge Lost: Refill - 24 sec
1118	44.31	26.35	6321	4.68	78.3	6.89	3.52	Psi - 40 Flow: 150 ml/min
1121	44.31	26.18	6339	4.17	74.6	6.89	4.02	
1124	44.31	26.16	6348	4.08	72.8	6.90	4.14	
1127	44.31	26.18	6352	3.93	70.7	6.90	1.72	
1130	44.31	26.05	6350	3.81	68.9	6.90	2.77	
1133	44.31	25.91	6337	3.69	67.9	6.90	3.49	
1136	44.31	25.87	6335	3.73	66.8	6.90	2.68	
1139	44.31	25.97	6351	3.80	65.3	6.89	3.20	
1140		Begin Filling Containers.				well	stable	

RECORDED PARAMETERS
INI. DEPTH TO WATER: 44.29 (static WL with out pump in)
DEPTH TO WATER: 44.20 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1140
DEPTH TO WATER AT COMPLETION OF SAMPLING: 44.31
TIME AT COMPLETION OF SAMPLING: 1145
CUMULATIVE VOLUME PURGED: 1 gal

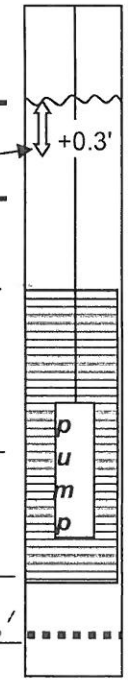
NOTES / COMMENTS:
Dedicated Tubing only
By Hazmat Storage Area

VOCs only

Fe^{2+} = 0.301 ppm @ 1140

Well information

Dedicated pump (Y / N)
Stick-up or flush mount (circle)
Note: measurements from MP
Static WL 44.29
drawdown setpoint 44.59
+0.3'
top of screen 30
Pump intake[2] _____ (depth from MP)
bottom of screen 60
Measured total depth from TOC ~60'
Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field

S2U1

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID _____ DATE 10/30/12
Field Personnel S. Holst

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Calm, warm, clear

Surveyed Measuring Point (MP): TOC Elevation: _____
Depth to top _____ / _____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type _____
Pump Model _____ volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1035	51.75							Pump intake 1' from bottom of pump. Insufficient water to sample

RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: _____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:_____
DEPTH TO WATER AT COMPLETION OF SAMPLING:_____
TIME AT COMPLETION OF SAMPLING:_____
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: _____

Well information

Dedicated pump (Y /N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 51.75

drawdown setpoint 52.05

+0.3'

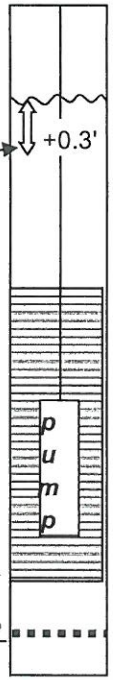
top of screen _____

Pump intake[2] _____
(depth from MP)

bottom of screen _____

Measured total depth from TOC 52.40

Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field

J2U2

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID J2U2 DATE 10-31-12
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 33.50 /68.50 bottom of screen (below MP)
Pump Intake at NM (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Flowrate: 200ml per minute. Pump settings: 50psi, 2cpm, 4610

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
		Values:	180	.06	—	.10	.038	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1143	44.39	START	PUMP					Purge water was clear with no odor.
1148	44.39	26.64	6031	1.38	32.3	6.92	.71	Turbidity readings were within drinking
1151	44.39	26.98	5994	1.38	32.6	6.90	.55	water standards < 10 NTU
1154	44.39	26.64	6022	1.29	33.5	6.80	.28	
1157	44.39	25.87	5999	.87	31.0	6.76	.31	
1200	44.39	25.74	6001	.74	27.8	6.75	.25	
1203	44.39	25.67	5998	.62	25.5	6.74	.29	
1206	44.39	25.62	5996	.60	24.6	6.72	.38	
1209	44.39	25.63	5996	.58	24.0	6.71	.35	
1212	44.39	25.63	5994	.56	22.0	6.70	.31	
1215	Began	sampling	collection					

Well information

Dedicated pump (Y) / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 44.39

drawdown setpoint 44.69

+0.3'

top of screen 33.50

Pump intake[2] NM (depth from MP)

pump

bottom of screen 68.50

Measured total depth from TOC 69.75

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 44.39 (static WL with out pump in)
DEPTH TO WATER: 44.39 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1215
DEPTH TO WATER AT COMPLETION OF SAMPLING: 44.39
TIME AT COMPLETION OF SAMPLING: 1330
CUMULATIVE VOLUME PURGED: 6.4 liters

NOTES / COMMENTS: Fe^2 = 0.0 mg/L @ 1210
Yellow Flush mount well located NW of shipping/receiving loading dock.

Note 1: Shaded cells should be filled in prior to going into the field

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-67 DATE 4-9-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Clear, Windy

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 11.0 / 35.6 bottom of screen (below MP)
Pump Intake at 17.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED, Sample Pro volume (bladder plus tubing)

Pump settings: 20 psi, 2 cpm, 10 48/ Flowrate: 250 ml

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-46.7	+/-.14	—	+/-.10	+/-10.2	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1206	13.34	START	PUMP					Flowrate: 250 ml per minute
1211	13.35	23.52	14050	2.68	105.9	6.97	446	cloudy, no odor
1214	13.35	23.61	14130	2.60	104.9	6.95	339	
1217	13.35	23.69	14280	2.27	103.7	6.93	252	
1220	13.35	23.70	14540	1.99	102.4	6.91	217	
1223	13.35	23.73	14810	1.81	100.9	6.91	160	
1226	13.35	23.78	15090	1.65	99.6	6.90	141	
1229	13.35	23.76	15350	1.52	98.3	6.90	118	
1232	13.35	23.79	15570	1.41	97.2	6.90	102	
1235	13.35	23.80	15790	1.37	95.1	6.90	97.1	
1238	13.35	23.84	15910	1.31	94.6	6.90	94.5	
1245	Sample	taken						
								Fe^{+2} - 0.0 mg/L @ 1241

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 13.34

drawdown setpoint 13.64

+0.3'

top of screen 11.0

Pump intake[2] 17.50 (depth from MP)

pump

bottom of screen 35.6

Measured total depth from TOC

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 13.34 (static WL with out pump in)
DEPTH TO WATER: 13.34 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1245
DEPTH TO WATER AT COMPLETION OF SAMPLING: 13.34
TIME AT COMPLETION OF SAMPLING: 1301
CUMULATIVE VOLUME PURGED: 9.7 liters

NOTES / COMMENTS: Flush Mount Well located at the corner of Rolly & Amber.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMMW-101 DATE 4-9-13
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
clear, windy, 65°F

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 65 / 95 bottom of screen (below MP)
Pump Intake at UNKNOWN (ft. below MP)
Purging Device - pump type Dedicated Bladder
Pump Model QED volume (bladder plus tubing)

Parameter tolerences (%):	3%	+/-10%	na	+/- 0.1	+/-10%
Values:	81	.73	/	.1	0.67

CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1204	69.10	Start	Pump					
1209	69.15	21.86	2702	7.27	153.6	7.70	6.67	clear, No odor
1212	69.18	21.85	2703	7.23	151.2	7.68	3.87	
1215	69.18	21.57	2691	7.52	150.0	7.67	2.90	200 mL/min., 60 PSI, 2CPM, 45 ID
1218	69.18	21.60	2693	7.00	149.7	7.63	2.26	
1221	69.18	21.07	2665	7.30	152.9	7.52	2.09	
1224	69.18	21.07	2665	7.20	156.0	7.51	2.16	
1226	Began	sampling						

Well information

Dedicated pump (Y)/ N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 69.10

drawdown setpoint 69.40

+0.3'

top of screen 65

Pump intake[2] _____ (depth from MP)

bottom of screen 95

Measured total depth from TOC ~95

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 69.10 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1226
DEPTH TO WATER AT COMPLETION OF SAMPLING: 69.26
TIME AT COMPLETION OF SAMPLING: 1430
CUMULATIVE VOLUME PURGED: 4 L.

NOTES / COMMENTS:

Fe^{2+} = 0.0 @ 1222

Well Next to Discount Tire

Note 1: Shaded cells should be filled in prior to going into the field

PC-54

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-54 DATE 4-10-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top ____ / ____ bottom of screen (below MP)
Pump Intake at 26.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing) ____

Pump settings: 25 psi, 2 cpm, 46 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-197	+/-7.1	—	+/-.10	+/-2.2	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1236	22.69	START	PUMP					Flowrate: 250 ml per minute
1241	22.70	26.70	6604	1.77	68.5	7.57	52.1	Clear, with no odor
1244	22.70	26.61	6590	1.19	67.4	7.54	45.8	
1247	22.70	26.49	6577	.91	65.8	7.51	37.7	
1250	22.70	26.42	6573	.77	63.9	7.51	27.9	
1253	22.70	26.37	6567	.71	62.7	7.50	22.2	
1256	22.70	26.36	6568	.68	61.8	7.49	21.1	
1259	22.70	26.33	6563	.66	60.7	7.49	20.5	
1305	Sample	taken						
								Fe^{+2}: 0.0 mg/L @ 1300

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 22.69

drawdown setpoint 22.99

top of screen ____

Pump intake[2] 26.50 (depth from MP)

bottom of screen ____

Measured total depth from TOC ____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 22.69 (static WL with out pump in)
DEPTH TO WATER: 22.69(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1305
DEPTH TO WATER AT COMPLETION OF SAMPLING: 22.69
TIME AT COMPLETION OF SAMPLING: 1321
CUMULATIVE VOLUME PURGED: 7.3 liters

NOTES / COMMENTS: Flush mount well located behind Dottys Casino next to salvage yard of Insurance Auto Auctions

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

PC-28

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-28 DATE 4-10-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 10.00 / 19.50 bottom of screen (below MP)
Pump Intake at 15.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 20 psi, 2 cpm, 47 ID

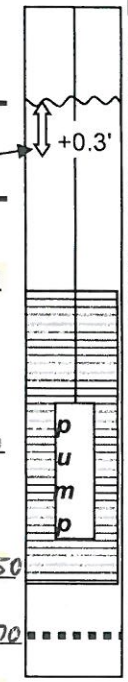
Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/- 222	+/- .15	—	+/- .10	+/- 9.7	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1043	11.48	START	PUMP					Flowrate: 250 ml per minute
1048	11.48	23.64	7577	2.65	104.6	7.43	48.9	Cloudy, with no odor
1051	11.48	23.65	7591	1.62	97.6	7.45	327	
1054	11.48	23.69	7582	1.35	94.9	7.45	243	
1057	11.48	23.64	7537	1.35	95.4	7.45	199	
1100	11.48	23.62	7477	1.43	94.4	7.47	138	
1103	11.48	23.58	7432	1.50	95.5	7.47	97.8	
1106	11.48	23.56	7401	1.54	95.7	7.47	92.3	
1109	11.48	23.54	7370	1.56	95.2	7.48	89.7	
1115	Sample	taken						
								Fe^{+2}: 0.0 mg/L @ 1105

RECORDED PARAMETERS
INI. DEPTH TO WATER: 11.46 (static WL with out pump in)
DEPTH TO WATER: 11.46 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1115
DEPTH TO WATER AT COMPLETION OF SAMPLING: 11.47
TIME AT COMPLETION OF SAMPLING: 1131
CUMULATIVE VOLUME PURGED: 8.0 liters

NOTES / COMMENTS: Flush mount well located across from elementary school.

Well information

Dedicated pump (Y/N)
Stick-up or flush mount (circle)
Note: measurements from MP
Static WL 11.46
drawdown setpoint 11.76
top of screen 10.00
Pump intake[2] 15.50 (depth from MP)
bottom of screen 19.50
Measured total depth from TOC 19.70
Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMMW-103 DATE 4-10-13
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
warm, clear, calm

Surveyed Measuring Point (MP): TOC Elevation: 1882.95
Depth to top 57 / 87 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model MP50 QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			89	.83		.73	Below Stnd	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1023	Pump	on						
								2 CPM, 26 sec Refill, 4 sec dis.
								125 ML/min.
1036	67.53	22.54	2968	8.26	176.4	7.28	1.46	Flow down to 100 mL/min.
1039	67.56	23.87	2876	7.90	178.1	7.29	2.36	Went 1 CPM, still 100 mL/min
1042	67.57	24.28	2730	7.49	180.5	7.32	1.09	
1045	67.58	24.31	2731	7.34	181.8	7.34	0.96	Down to 75 mL/min
1048	67.59	23.47	2526	7.46	184.1	7.37	0.90	
1051	67.62	23.64	2517	7.37	185.4	7.37	0.86	
1054	67.64	24.15	2541	7.32	186.9	7.37	0.81	
Begin	Sampling	@	1055					

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 67.51

drawdown setpoint 67.81

+0.3'

top of screen 57

Pump intake[2] _____
(depth from MP)

bottom of screen 87

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 67.51 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1055
DEPTH TO WATER AT COMPLETION OF SAMPLING: 67.71
TIME AT COMPLETION OF SAMPLING: 1408
CUMULATIVE VOLUME PURGED: ~1 gal.

NOTES / COMMENTS:

Fe^{2+}: 1050 = 1.086 ppm

Note 1: Shaded cells should be filled in prior to going into the field

PC-24

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-24 DATE 4-11-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 15.00 / 30.00 bottom of screen (below MP)
Pump Intake at 25.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 20 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1248	20.73	START	PUMP					Flowrate: 250 ml per minute
1253	20.73	26.15	14160	3.24	66.1	7.33	213	Clear, No odor
1256	20.73	25.59	14020	2.61	68.1	7.30	167	
1259	20.73	25.10	13910	2.24	68.8	7.29	95.9	
1302	20.73	24.91	13840	2.08	69.2	7.28	77.0	
1305	20.73	24.67	13810	1.99	69.8	7.27	48.2	
1308	20.73	24.64	13780	1.89	70.3	7.26	30.0	
1311	20.73	24.53	13770	1.81	71.1	7.25	18.4	
1314	20.73	24.53	13760	1.76	71.6	7.25	12.9	
1317	20.73	24.48	13760	1.70	71.5	7.25	9.63	
1320	20.73	24.43	13750	1.71	71.7	7.24	7.54	
1323	20.73	24.46	13750	1.70	72.0	7.24	5.81	
1325	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1312
								Turbidity readings dropped within drinking water standards. (<10 NTU)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 20.73 (static WL with out pump in)
DEPTH TO WATER: 20.73 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1325
DEPTH TO WATER AT COMPLETION OF SAMPLING: 20.73
TIME AT COMPLETION OF SAMPLING: 1341
CUMULATIVE VOLUME PURGED: 9.3 liters

NOTES / COMMENTS: Flush mount well located in west bound shoulder of Sunset.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 20.73

drawdown setpoint 21.03

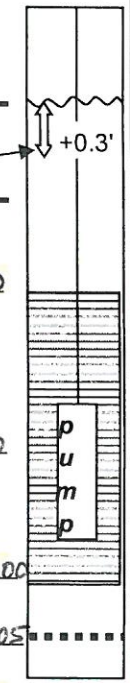
top of screen 15.00

Pump intake[2] 25.00 (depth from MP)

bottom of screen 30.00

Measured total depth from TOC 29.05

Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

PC-124

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID PC-124 DATE 4-11-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top NM / NM bottom of screen (below MP)
Pump Intake at 29.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 25 psi, 2 gpm, 47 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/- 33	+/-.30	—	+/-.10	+/-.89	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1045	24.98	START	PUMP					Flowrate: 250 ml per minute
1050	25.07	23.95	11080	5.41	115.7	7.14	97.9	Clear, No odor
1053	25.09	24.10	11120	3.97	111.0	7.15	80.1	
1056	25.09	24.19	11150	3.45	108.6	7.15	65.3	
1059	25.09	24.25	11150	3.26	107.1	7.15	51.7	
1102	25.09	24.30	11160	3.20	105.8	7.16	39.4	
1105	25.09	24.36	11170	3.29	104.7	7.16	32.6	
1108	25.09	24.39	11180	3.29	103.6	7.17	24.5	
1111	25.09	24.42	11190	3.12	102.8	7.17	16.9	
1114	25.09	24.44	11190	3.58	101.7	7.17	11.3	
1117	25.09	24.38	11180	3.02	101.2	7.17	8.91	
1120	25.09	24.39	11180	2.86	100.5	7.18	7.51	
1123	25.09	24.38	11180	2.72	100.3	7.17	5.89	
1125	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1121
								Turbidity readings dropped within drinking water standards. (<10NTU)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 24.98 (static WL with out pump in)
DEPTH TO WATER: 24.98 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1125
DEPTH TO WATER AT COMPLETION OF SAMPLING: 24.99
TIME AT COMPLETION OF SAMPLING: 1141
CUMULATIVE VOLUME PURGED: 10 liters

NOTES / COMMENTS: Flush mount well located in west bound shoulder of Sunset near Pabco Rd.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 24.98

drawdown setpoint 25.28

+0.3'

top of screen NM

Pump intake[2] 29.00 (depth from MP)

pump

bottom of screen NM

Measured total depth from TOC 35.00

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMMW-104 DATE 4-11-13
Field Personnel JON SCHAPER

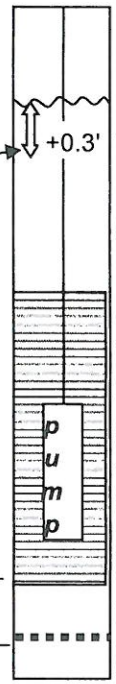
Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
warm, calm, p. cloudy

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 57 / 87 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Dedicated Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			78	.85	—	.1	Under Std.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1034	Pump	Started						Flow rate: 50 ML/MIN 1CPM, 51D
								Tried to increase flow but to
1043	68.25	20.91	2586	8.48	220.7	7.33	1.36	NO prevail. Remained @ 50 ML/MIN.
1046	68.26	21.14	2600	8.19	216.7	7.32	0.98	
1049	68.25	21.29	2616	8.01	212.3	7.33	0.90	
1052	68.25	21.58	2637	8.08	206.5	7.33	0.96	
1055	68.25	21.92	2648	8.05	203.9	7.34	0.82	← stable readings
1100	Began	Sampling						
								During sampling increased throttle
								to 80 PSI. This brought up the
								Flow rate to ~85 ML/MIN.

Well information

Dedicated pump (Y / N)
Stick-up or flush mount (circle)
Note: measurements from MP
Static WL 68.22
drawdown setpoint 68.52
+0.3'
top of screen 57
Pump intake[2] _____
(depth from MP)
bottom of screen 87
Measured total depth from TOC ~87
Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 68.22 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1100
DEPTH TO WATER AT COMPLETION OF SAMPLING: 68.26
TIME AT COMPLETION OF SAMPLING: 1350
CUMULATIVE VOLUME PURGED: ~1.2 L.

NOTES / COMMENTS:

Iron = 0.092 ppm @ 1054

Well located @ Corner of Water / Lake Mead

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMMW-102 DATE 4-15-13
Field Personnel Jon Schaper
Jeremy Holst
Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
windy, warm, dusty

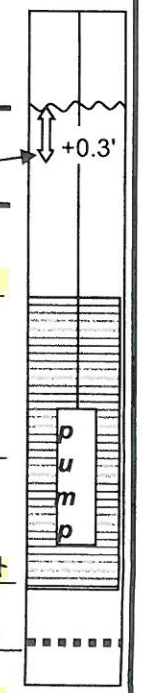
Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 47 / 87 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (µS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1001	Start	pump						1 CPM, 45 R, 15 Dis. ID 15
								Problem with getting water to produce.
1119	Pump	working						
								switched other controller and pump to try and increase flow rate.
1122	63.40	24.65	2117	8.67	181.2	7.52	2.13	
1125	63.45	24.97	2113	8.00	181.8	7.52	3.11	
1128	63.50	24.58	2119	8.39	183.2	7.51	2.96	
1131	63.49	24.94	2131	8.35	184.4	7.51	3.23	Flow rate only ~100 mL/min.
1134	63.49	24.83	2130	8.47	185.6	7.50	3.10	
1137	63.50	25.14	2141	8.05	186.6	7.51	3.26	
1140	63.50	25.06	2138	8.17	187.0	7.51	1.49	Exceeded max. drawdown most likely due to pump malfunction thus pumped out more water during process.

RECORDED PARAMETERS
INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 62.90 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1145
DEPTH TO WATER AT COMPLETION OF SAMPLING: 63.71
TIME AT COMPLETION OF SAMPLING: 1400
CUMULATIVE VOLUME PURGED: ~1.3 gal.

NOTES / COMMENTS:
Fe^{2+} = .009 ppm
Well @ Target Shopping Center on Lake Mead

Well information
Dedicated pump (Y/N)
Stick-up or flush mount (circle)
Note: measurements from MP
Static WL 62.90
drawdown setpoint 63.20
top of screen 47
Pump intake[2] _____ (depth from MP)
bottom of screen 87
Measured total depth from TOC ~87
Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID Tmmw-104 DATE 4-16-13
Field Personnel Jon Sohnper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
windy, cool, cloudy

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 57 / 87 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Dedicated Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):	3%	+/-10%	na	+/- 0.1	+/-10%
Values:	.07	.89	/	.10	Below Stat.

CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1023	Start	Pump						
1028	67.62	22.48	2.377	8.94	211.6	7.47	1.98	100 mL/MIN 40 PSI, 1CPM, 510
1031	67.66	22.66	2.329	8.92	213.5	7.45	0.63	
1034	67.67	22.70	2.320	9.03	214.5	7.45	0.53	
1037	67.68	22.81	2.322	9.12	215.9	7.45	0.46	
1040	67.70	22.84	2.322	9.30	216.8	7.46	0.49	
1043	67.70	22.72	2.314	9.17	217.8	7.46	0.63	
1046	67.71	22.80	2.315	9.10	218.6	7.45	1.06	- Stable
1048	Begin	Sampling						
								* Resample hexChrom/Anions only

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 67.56

drawdown setpoint 67.86

+0.3'

top of screen 57

Pump intake[2] _____
(depth from MP)

pump

bottom of screen 87

Measured total depth from TOC ~87

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 67.56 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1048
DEPTH TO WATER AT COMPLETION OF SAMPLING: 67.75
TIME AT COMPLETION OF SAMPLING: 1058
CUMULATIVE VOLUME PURGED: ~2.5L.

NOTES / COMMENTS:

1028 Fe^{2+}: 0.096 ppm

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

AA-UW-1

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-UW-1 DATE 4-16-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 54.5 / 64.5 bottom of screen (below MP)
Pump Intake at 55.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 60 psi, 1 cpm, 8 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.137	+/-.12	—	+/-.10	+/-.08	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1235	51.06	START	PUMP					Flowrate: 150 ml per minute
1240	51.24	23.58	4.518	16.91	87.4	7.92	2.75	Clear, with no odor
1243	51.24	23.66	4.522	7.87	86.1	7.91	1.73	
1246	51.24	23.63	4.525	3.62	84.2	7.91	1.01	
1249	51.24	23.77	4.526	2.45	83.9	7.89	1.04	
1252	51.24	23.86	4.544	1.73	82.8	7.89	.68	
1255	51.24	24.10	4.567	1.44	81.1	7.90	.82	
1258	51.24	24.14	4.569	1.23	79.7	7.89	.87	
1301	51.24	24.10	4.563	1.26	78.7	7.89	.75	
1304	51.24	24.01	4.555	1.15	78.1	7.90	.71	
1305	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1303
								Turbidity readings were within
								drinking water standards (<10NTU)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 51.06 (static WL with out pump in)
DEPTH TO WATER: 51.06(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1305
DEPTH TO WATER AT COMPLETION OF SAMPLING: 51.12
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 4.5 liters

NOTES / COMMENTS: Yellow monument well located in field east of Boulder Hwy.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 51.06

drawdown setpoint 51.36

+0.3'

top of screen 54.5

Pump intake[2] 55.00 (depth from MP)

pump

bottom of screen 64.5

Measured total depth from TOC 69.5

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

AA-27

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-27 DATE 4-16-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 41.5 / 61.5 bottom of screen (below MP)
Pump Intake at 72.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 70 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.151	+/-.57	—	+/-.10	+/-.86	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1044	67.07	START	PUMP					Flowrate: 250 ml per minute
1049	67.16	24.32	5.040	11.26	133.7	7.48	27.9	Clear, with no odor
1052	67.16	24.42	5.050	6.52	132.2	7.49	16.84	
1055	67.16	24.49	5.053	6.06	131.8	7.49	13.61	
1058	67.16	24.49	5.056	5.89	131.4	7.50	9.97	
1101	67.16	24.45	5.054	5.79	131.1	7.50	8.56	
1104	67.16	24.56	5.062	5.73	131.7	7.49	7.13	
1107	67.16	24.78	5.081	5.70	131.3	7.49	5.91	
1110	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1108
								Turbidity readings dropped within
								drinking water standards (<10 NTU)

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 67.07

drawdown setpoint 67.37

+0.3'

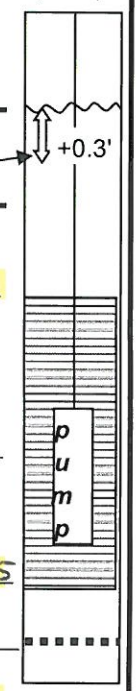
top of screen 41.5

Pump intake[2] 71.00 (depth from MP)

bottom of screen 61.5

Measured total depth from TOC

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: 67.07 (static WL with out pump in)
DEPTH TO WATER: 67.07 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1110
DEPTH TO WATER AT COMPLETION OF SAMPLING: 67.10
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 6.5 liters

NOTES / COMMENTS: Yellow monument well located in field east of Boulder Hwy.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

DBMW-5

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID DBMW-5 DATE 4-17-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 15.00 / 35.00 bottom of screen (below MP)
Pump Intake at 32.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 40 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.199	+/-.62	—	+/-.10	+/-.03	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1129	28.12	START	PUMP					Flowrate: 250 ml per minute
1134	28.20	22.85	6.595	19.21	105.2	7.55	1.35	Clear, with no odor
1137	28.22	23.16	6.629	16.31	102.7	7.56	1.01	
1140	28.23	23.19	6.640	13.18	102.3	7.57	.44	
1143	28.23	23.17	6.640	7.35	102.1	7.57	.77	
1146	28.23	23.18	6.645	6.62	102.3	7.57	.39	
1149	28.23	23.16	6.643	6.26	101.9	7.57	.34	
1152	28.23	23.18	6.652	6.01	102.2	7.57	.45	
1155	28.23	23.21	6.661	5.87	102.2	7.57	.27	
1200	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1157
								Turbidity readings were within
								drinking water standards (<10NTU)

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 28.12

drawdown setpoint 28.42

+0.3'

top of screen 15.00

Pump intake[2] 32.50 (depth from MP)

pump

bottom of screen 35.00

Measured total depth from TOC 38.20

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 28.12 (static WL with out pump in)
DEPTH TO WATER: 28.12 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1200
DEPTH TO WATER AT COMPLETION OF SAMPLING: 28.19
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 7.8 liters

NOTES / COMMENTS: Yellow monument well located in open field west of Tuscany.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

DBMW-4

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID DBMW-4 DATE 4-17-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 10.00 / 30.00 bottom of screen (below MP)
Pump Intake at 30.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 40 psi, 2 gpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.208	+/-.59	—	+/-.10	+/-.10	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1305	26.13	START	PUMP					Flowrate: 250 ml per minute
1310	26.19	23.85	6.924	18.92	91.5	7.66	3.02	Clear, with no odor
1313	26.21	23.89	6.927	16.77	93.3	7.65	2.23	
1316	26.21	23.96	6.936	12.39	94.4	7.64	1.61	
1319	26.21	24.01	6.938	7.65	94.8	7.64	1.32	
1322	26.21	23.94	6.934	6.28	94.7	7.64	1.18	
1325	26.21	24.00	6.944	5.91	95.0	7.64	1.04	
1328	26.21	24.07	6.954	5.63	94.7	7.65	.97	
1331	26.21	24.04	6.953	5.55	95.1	7.64	.89	
1335	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1333
								Turbidity readings were within drinking water standards (<NTU)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 26.13 (static WL with out pump in)
DEPTH TO WATER: 26.13 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1335
DEPTH TO WATER AT COMPLETION OF SAMPLING: 26.17
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 7.5 liters

NOTES / COMMENTS: Yellow monument well located in open field east of water reclamation plant.

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 26.13

drawdown setpoint 26.43

+0.3'

top of screen 10.00

Pump intake[2] 30.00 (depth from MP)

pump

bottom of screen 30.00

Measured total depth from TOC 43.90

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID MW-4 DATE 4-17-13
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
cloudy, cool, light winds

Surveyed Measuring Point (MP): TOC Elevation: 1800.61
Depth to top 38 / 58 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type [redacted] Bladder Pump
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			.13	.20	—	0.1	belowstd.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1058	Pump	Started						
1103	51.33	23.69	4.341	2.01	148.0	7.47	1.10	4 sec. Dis, 26 sec Refill
1106	51.35	23.57	4.333	1.72	150.8	7.48	0.37	250 ML/MIN.
1109	51.38	23.76	4.342	1.55	154.6	7.47	0.35	
1112	51.39	23.59	4.328	1.45	161.7	7.46	0.28	
1115	51.39	23.59	4.316	1.40	160.9	7.47	0.63	
1118	51.41	23.86	4.333	1.34	162.8	7.46	0.43	
1121	51.42	23.70	4.308	1.33	164.6	7.48	0.37	

Well information

Dedicated pump (Y/ N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 51.29

drawdown setpoint 51.59

+0.3'

top of screen 38

Pump intake[2] _____ (depth from MP)

bottom of screen 58

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 51.29 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1125
DEPTH TO WATER AT COMPLETION OF SAMPLING: 51.50
TIME AT COMPLETION OF SAMPLING: 1423
CUMULATIVE VOLUME PURGED: ~2 gal.

NOTES / COMMENTS:

Fe^{2+}: 0.225 @ 1120

*MW-4 sampled for MS/MSD, and Dup-1
well is by contractor entrance.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

DBMW-1

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID DBMW-1 DATE 4-18-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 19.00 / 49.00 bottom of screen (below MP)
Pump Intake at 39.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 30 psi, 1 cpm, 6 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.214	+/-.60	—	+/-.10	+/-.03	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1257	35.79	START	PUMP					Flowrate: 100 ml per minute
1302	35.92	23.85	7.140	8.55	78.7	7.79	.71	Clear, with no odor
1305	35.96	24.07	7.162	6.89	87.2	7.65	.46	
1308	35.99	23.98	7.136	6.01	90.5	7.62	.38	
1311	36.01	23.81	7.125	5.83	91.8	7.60	.50	
1314	36.03	23.86	7.113	5.69	93.0	7.59	.41	
1315	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1312
								Turbidity readings were within drinking water standards (<10NTU)
								Drawdown set point was exceeded during sample collection.

RECORDED PARAMETERS

INI. DEPTH TO WATER: 35.79 (static WL with out pump in)
DEPTH TO WATER: 35.79(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1315
DEPTH TO WATER AT COMPLETION OF SAMPLING: 36.21
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 1.8 liters

NOTES / COMMENTS: Yellow monument well inside of BMI complex at the corner of Pabco & Galleria.

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 35.79

drawdown setpoint 36.09

+0.3'

top of screen 19.00

Pump intake[2] 39.50 (depth from MP)

pump

bottom of screen 49.00

Measured total depth from TOC 51.55

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

DBMW-3

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID DBMW-3 DATE 4-18-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 19.00 / 39.00 bottom of screen (below MP)
Pump Intake at 38.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 30 psi, 1 cpm, 6 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.32	+/-.53	—	+/-.10	+/-.08	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1042	33.96	START	PUMP					Flowrate: 100 ml per minute
1047	34.09	22.46	10.58	6.19	100.1	7.79	1.71	Clear, with no odor
1050	34.15	22.61	10.63	5.78	99.6	7.81	1.22	
1053	34.18	22.80	10.66	5.31	98.6	7.81	.83	
1056	34.21	22.74	10.67	5.08	99.3	7.80	.59	
1059	34.24	22.84	10.68	4.97	98.9	7.81	.51	
1100	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1058
								Turbidity readings were within drinking water standards (<10 NTU)
								Drawdown setpoint was exceeded during sample collection.

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 33.96

drawdown setpoint 34.26

+0.3'

top of screen 19.00

Pump intake[2] 38.00 (depth from MP)

bottom of screen 39.00

Measured total depth from TOC 41.95

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 33.96 (static WL with out pump in)
DEPTH TO WATER: 33.96 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1100
DEPTH TO WATER AT COMPLETION OF SAMPLING: 34.45
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 1.8 liters

NOTES / COMMENTS: Yellow monument well in BMI complex across from water reclamation plant.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMMW-3R DATE 4-18-13
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Sunny, calm

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 41 / 66 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			.21	.48	–	.1	below stnd.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1215	Pump	started						Flow: 2CPM, 25 Re., 5 Dis. = 225 ml/min
1220	52.18	25.23	7.033	4.75	165.0	7.25	0.96	Backed down Flow to 1CPM with
1223	52.22	25.22	7.043	4.35	172.9	7.28	0.75	53 Re, 7 Dis. = 175 ml/min.
1226	52.25	25.24	7.041	4.36	176.2	7.29	0.90	
1229	52.27	25.19	7.027	4.26	178.5	7.29	0.46	
1232	52.28	25.18	7.022	4.30	181.6	7.29	0.56	
1235	52.29	25.20	7.018	4.12	183.4	7.30	0.63	← parameters Stable

Well information

Dedicated pump (Y/ N): Y

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 52.05

drawdown setpoint 52.35

+0.3'

top of screen 41

Pump intake[2] _____ (depth from MP)

bottom of screen 66

Measured total depth from TOC ~68

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 52.05 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1236
DEPTH TO WATER AT COMPLETION OF SAMPLING: 52.34
TIME AT COMPLETION OF SAMPLING: 1356
CUMULATIVE VOLUME PURGED: ~2.5 L.

NOTES / COMMENTS:

Fe^{2+} = 0.280 ppm @ 1233

Well located in dirt Field behind Target.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID MW-5 DATE 4-18-13
Field Personnel JON Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
SUNNY, calm

Surveyed Measuring Point (MP): TOC Elevation: 1812.47
Depth to top 40 / 60 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type ? Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			.15	.47	–	.1	Below Stnd.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1020	Pump	Started						2 cpm, 24 refill, 6 sec. Discharge
1025	49.86	25.80	5.105	4.74	212.4	7.28	.74	= 250 ML/min.
1028	49.89	25.86	5.048	4.52	215.4	7.27	.49	
1031	49.93	25.85	4.907	4.68	216.7	7.27	.87	clear, no odor
1034	49.95	25.84	4.870	4.79	219.3	7.27	.81	
1037	49.96	25.92	4.865	4.78	221.2	7.27	.56	
1040	49.98	25.98	4.863	4.77	222.7	7.26	.63	← Stable

Well information

Dedicated pump (Y/ N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 49.80

drawdown setpoint 50.10

+0.3'

top of screen 40

Pump intake[2] _____
(depth from MP)

bottom of screen 60

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 49.80 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1041
DEPTH TO WATER AT COMPLETION OF SAMPLING: 50.01
TIME AT COMPLETION OF SAMPLING: 1155
CUMULATIVE VOLUME PURGED: ~1.2 gal

NOTES / COMMENTS:

Fe^{2+}: @ 1033 = .335 ppm

Well located near Railroad tracks, middle of plant.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

BRW-R1

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID _____ DATE 4/22/13
Field Personnel S. Holst

Sampling Organization ____ TIMET
Field observations:(weather, well conditions etc.)
Hot, clear, calm

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top _____/_____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type QED Bladder Pump
Pump Model QED volume (bladder plus tubing) _____

TIMET®

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			0.140	0.48	–	0.1		~~Meet Dw Standards~~
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments ~~Meet Dw Standards~~
10.00	46.32							
10.06								Pump on
1012	46.41	26.38	4.635	5.32	72.2	7.94	0.49	60 psi 23 Refill 7 sec Discharge
1015	46.50	25.98	4.665	5.10	72.1	7.97	0.35	60 psi 25 Refill 5 sec Discharge
1018	46.55	25.84	4.643	5.07	71.0	7.98	0.44	60 psi 23 Refill 3 sec Discharge
1021	46.59	25.35	4.644	4.73	71.2	7.98	0.25	Flow ~ 125 ml/min
1024	46.60	25.93	4.649	4.76	71.7	7.97	0.26	
1027	46.61	25.97	4.654	4.85	71.3	7.99	0.24	
1030	46.61	26.00	4.657	4.82	71.5	7.99		
1035	46.61							Began Filling Containers

Well information

Dedicated pump (Y/N) (Y)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 46.32

drawdown setpoint 46.62

+0.3'

top of screen _____

Pump intake[2] _____ (depth from MP)

pump

bottom of screen _____

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: — (static WL with out pump in)
DEPTH TO WATER: 46.32 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1035
DEPTH TO WATER AT COMPLETION OF SAMPLING: 46.61
TIME AT COMPLETION OF SAMPLING: 1042
CUMULATIVE VOLUME PURGED: ~0.5 gal

NOTES / COMMENTS:

Located near employee Parking lot
Dedicated pump

Anions & Hex chrom Resample

Fe^{2+} = 0.0 mg/L @ 1042

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TMMW-104

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID _____ DATE 4/22/13
Field Personnel S. Holst

Sampling Organization ____ TIMET
Field observations:(weather, well conditions etc.)
Hot, calm, clear

Surveyed Measuring Point (MP): TOC Elevation: _____
Depth to top _____/_____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type QED Bladder Pump
Pump Model Bladder volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			.077	0.73	/	0.1		← Met DW Standards
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1123	67.02							
1128								Pump on
1131	67.25							Refill 26 sec Discharge 4 sec
1134	67.27	25.07	2.486	7.21	66.6	8.05	0.69	Pressure 80 psi
1137	67.28	25.10	2.504	7.25	68.1	8.03	0.41	Refill 27 sec Discharge 3 sec
1140	67.29	25.14	2.514	7.31	68.8	8.03	0.52	Pressure 60 psi
1143	67.29	25.36	2.530	7.12	70.0	8.01	0.22	Flow - 100 ml/min
1146	67.28	25.53	2.543	7.26	70.3	8.01	0.30	
1149	67.29	25.68	2.551	7.20	70.6	8.01	0.26	
1152	67.29	25.72	2.556	7.30	70.6	8.01	0.42	
1155			Begin Sampling					

Well information

Dedicated pump (Y) N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 67.02

drawdown setpoint 67.32 +0.3'

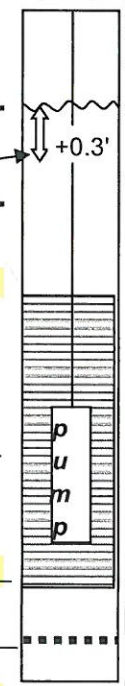
top of screen _____

Pump intake[2] _____ (depth from MP)

bottom of screen _____

Measured total depth from TOC _____

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: ~~67.02~~ (static WL with out pump in)
DEPTH TO WATER: 67.02 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1155
DEPTH TO WATER AT COMPLETION OF SAMPLING: 67.50
TIME AT COMPLETION OF SAMPLING: 1204
CUMULATIVE VOLUME PURGED: 1 gal

NOTES / COMMENTS:

On Hill in target Parking Lot

Resample #2 For Hex chrome & Anions

Fe^{2+} = 0.0 mg/L @ 1204

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

MW-1

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID _____ DATE 4/22/13
Field Personnel S. Holst

Sampling Organization ____ TIMET
Field observations:(weather, well conditions etc.)
Hot, calm, clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top _____/_____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type QED Bladder System
Pump Model Bladder volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			0.176	0.35	✓	0.1	←	well stable. Below Div standard
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1236	44.55							well stable below D.W. levels
1247								Pump on
1253	44.60	27.23	6.005	5.44	62.5	8.10	6.50	Discharge 4 sec Refill 20 sec
1256	44.60	26.77	5.953	4.25	66.0	7.88	7.43	Pressure 45 psi
1259	44.61	26.23	5.916	3.92	66.6	7.87	5.82	Discharge 6 sec Refill 24 sec
1302	44.60	25.96	5.885	3.79	67.2	7.86	3.67	Flow ~ 100 ml/min
1305	44.60	25.77	5.865	3.74	67.7	7.86	4.09	
1308	44.61	25.70	5.857	3.63	68.2	7.85	5.17	
1311	44.61	25.69	5.857	3.57	68.5	7.85	5.07	
1314	44.61	25.68	5.851	3.52	68.7	7.85	3.03	
1317	44.61	25.71	5.861	3.49	69.0	7.85	3.21	
1320								Began filling containers

Well information

Dedicated pump (Y)N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 44.55

drawdown setpoint 44.85 (+0.3')

top of screen _____

Pump intake[2] _____ (depth from MP)

bottom of screen _____

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 44.55 (static WL with out pump in)
DEPTH TO WATER: 44.53 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1320
DEPTH TO WATER AT COMPLETION OF SAMPLING: 44.61
TIME AT COMPLETION OF SAMPLING: 1326
CUMULATIVE VOLUME PURGED: 1.5 gal

NOTES / COMMENTS:
Installed near Haz waste Storage Area

VOCs only

Fe^{2+} 20.0 mg/L @ 1326

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID J242 DATE 4-22-13
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
warm, clear, calm

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 33.50 / 68.50 bottom of screen (below MP)
Pump Intake at NM (ft. below MP)
Purging Device - pump type Bladder
Pump Model OEP volume (bladder plus tubing)

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:					–	0.1	below stud	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1210	Pump	started						
1215	44.68	26.49	6.950	2.00	133.3	7.33	.91	Flow: 200 mL/MIN, ID 46
1218	44.68	26.23	6.892	1.46	127.8	7.26	.74	2 CPM
1221	44.69	26.26	6.874	1.27	121.7	7.24	.63	
1224	44.69	26.28	6.860	1.16	120.9	7.23	.69	
1227	44.69	26.11	6.861	1.10	122.6	7.22	.87	
1230	44.69	26.16	6.852	1.07	124.8	7.21	.70	← stable
								* TKN Well

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 44.66

drawdown setpoint 44.96 (+0.3')

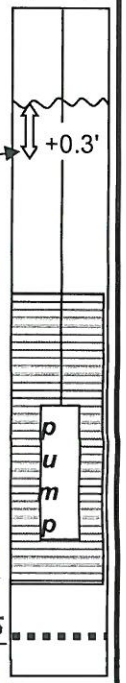
top of screen 33.5

Pump intake[2] (depth from MP)

bottom of screen 68.5

Measured total depth from TOC 69.75

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 44.66 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1232
DEPTH TO WATER AT COMPLETION OF SAMPLING: 44.69
TIME AT COMPLETION OF SAMPLING: 1350
CUMULATIVE VOLUME PURGED: 4 L

NOTES / COMMENTS:

Fe^{2+}: 0.00 ppm @ 1225

Well located by J-2 N. Shipping by road.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID MW-6R DATE 4-22-13
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Sunny, warm, calm

Surveyed Measuring Point (MP): TOC Elevation: 1812.63
Depth to top 39.67 / 59.67 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			.15	.2	—	0.1	below stnd.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
0954	pump	Started						
0959	43.38	26.01	4.856	2.00	128.4	7.49	1.36	8 sec. Dis, 22 sec. Refill
1002	43.39	26.06	4.852	1.27	126.9	7.47	1.18	Flow : 250 ml / min.
1005	43.41	25.97	4.852	1.13	127.6	7.47	1.19	
1008	43.41	26.19	4.863	0.97	128.4	7.47	1.87	
1011	43.42	26.02	4.852	0.90	128.6	7.47	1.53	
1014	43.43	25.88	4.850	0.85	128.4	7.47	1.24	← Stable

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 43.35

drawdown setpoint 43.65

+0.3'

top of screen 39.67

Pump intake[2] _____
(depth from MP)

bottom of screen 59.67

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 43.35 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1015
DEPTH TO WATER AT COMPLETION OF SAMPLING: 43.47
TIME AT COMPLETION OF SAMPLING: 1130
CUMULATIVE VOLUME PURGED: ~4.5 L

NOTES / COMMENTS:

- Sampled for TKN

Fe^{2+}: = .319 ppm @ 1013

West side Next to Railroad and Fence line

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

POU-3

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID POU-3 DATE 4-23-13
Field Personnel Carlos C.

Sampling Organization ____ TIMET
Field observations:(weather, well conditions etc.)
Clear, Windy

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 35.00 / 65.00 bottom of screen (below MP)
Pump Intake at 43.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing) ____

Pump settings: 45 psi, 2 cpm, 46 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.33	+/-.03	—	+/-.10	+/-.06	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1051	39.21	START	PUMP					Flowrate: 250 ml per minute
1056	39.24	23.61	10.45	1.75	163.8	7.10	1.95	Clear, with no odor
1059	39.24	23.76	11.03	.79	160.5	7.21	1.23	
1102	39.24	23.76	11.11	.58	158.4	7.25	1.05	
1105	39.24	23.82	11.11	.44	156.8	7.27	.91	
1108	39.24	23.89	11.06	.39	155.1	7.28	.66	
1111	39.24	23.94	11.03	.34	153.5	7.29	.58	
1114	39.24	23.92	10.95	.33	151.8	7.29	.70	
1117	39.24	24.01	10.90	.31	150.4	7.30	.61	
1120	Sample	taken						Ferrous Iron: 0.0 mg/L @ 1118
								Turbidity readings were within
								drinking water standards (<10 NTU)

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 39.21

drawdown setpoint 39.51

+0.3'

top of screen 35.00

Pump intake[2] 43.00 (depth from MP)

bottom of screen 65.00

Measured total depth from TOC ____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 39.21 (static WL with out pump in)
DEPTH TO WATER: 39.21 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1120
DEPTH TO WATER AT COMPLETION OF SAMPLING: 39.22
TIME AT COMPLETION OF SAMPLING: ____
CUMULATIVE VOLUME PURGED: 7.3 liters

NOTES / COMMENTS: Yellow monument well in BMI complex across from Jokers Wild.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

AA-01

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-01 DATE 4-23-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Clear, Windy

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top NM / NM bottom of screen (below MP)
Pump Intake at 49.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 45 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-143	+/-.16	—	+/-.10	+/-.09	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1254	47.34	START	PUMP				3.21	Flowrate: 250 ml per minute
1259	47.41	24.77	4.913	3.01	137.1	7.32	~~136.7~~	Clear, with no odor
1302	47.47	24.51	4.803	2.29	131.4	7.27	2.47	
1305	47.51	24.45	4.776	1.86	128.3	7.25	1.83	
1308	47.53	24.42	4.761	1.68	125.7	7.23	1.32	
1311	47.54	24.49	4.764	1.61	123.9	7.23	.89	
1314	47.55	24.46	4.765	1.54	122.4	7.22	.81	
1317	47.56	24.51	4.770	1.51	120.7	7.22	.67	
1320	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1319
								Turbidity readings were within
								drinking water standards (<10NTU)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 47.34 (static WL with out pump in)
DEPTH TO WATER: 47.34(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1320
DEPTH TO WATER AT COMPLETION OF SAMPLING: 47.42
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 6.5 liters

NOTES / COMMENTS: Yellow monument well located in Field along Boulder Hwy.

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 47.34

drawdown setpoint 47.64

+0.3'

top of screen NM

Pump intake[2] 49.50 (depth from MP)

pump

bottom of screen NM

Measured total depth from TOC 51.65

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-107 DATE 4-23-13
Field Personnel Jon Schaper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
windy, sunny, cool

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 19 / 39 bottom of screen (below MP)
Pump Intake at 38 (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing)

Parameter tolerences (%):	3%	+/-10%	na	+/- 0.1	+/-10%
Values:	.62	.18	—	.1	.69

CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1227	Pump	started						
1232	32.22	25.78	20.83	1.83	175.8	6.97	6.88	Flow: 250 ml/min D. 5sec R. 25sec.
1235	32.23	25.80	20.83	1.43	176.7	6.98	5.96	
1238	32.23	25.74	20.80	1.24	177.0	6.99	4.87	
1241	32.22	25.76	20.80	1.13	177.0	6.98	5.22	
1245	32.23	26.06	20.90	1.05	177.8	6.99	4.90	
1248	32.24	26.30	21.02	1.06	178.6	6.99	5.06	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 32.20

drawdown setpoint 32.50

+0.3'

top of screen 19

Pump intake[2] 38 (depth from MP)

bottom of screen 39

Measured total depth from TOC ~40

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 32.20 (static WL with out pump in)
DEPTH TO WATER: 32.19 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1250
DEPTH TO WATER AT COMPLETION OF SAMPLING: 32.26
TIME AT COMPLETION OF SAMPLING: 1350
CUMULATIVE VOLUME PURGED: ~2 gal.

NOTES / COMMENTS:

Fe^{2+} : .093 ppm @ 1247

Well along N. Fence on Warm Springs

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID CLD4-R DATE 4-23-13
Field Personnel JON Semper

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Windy, cool, sunny

Surveyed Measuring Point (MP): TOC Elevation: 1781.96
Depth to top 27 / 47 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):	3%	+/-10%	na	+/- 0.1	+/-10%
Values:	.23	.1	—	.1	1.84

CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1027	Pump	started						
1032	37.14	24.89	7.961	1.00	232.6	7.49	18.41	Flow 250 ML/MIN
1035	37.17	24.88	7.951	.72	226.6	7.51	16.28	ID 45, D. 5 sec, R. 25 sec.
1038	37.19	24.79	7.842	.64	223.4	7.50	14.07	
1041	37.23	24.87	7.754	.60	220.8	7.48	15.10	
1044	37.24	24.85	7.709	.59	218.1	7.46	17.23	
1047	37.26	24.63	7.659	.66	217.9	7.48	16.33	
1050	37.27	24.62	7.644	.90	219.7	7.46	15.25	
1053	37.28	24.81	7.693	.97	220.7	7.50	16.20	
1056	37.29	24.79	7.771	.98	220.3	7.51	15.89	← stable
								• PCB & TKN Well

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 37.11

drawdown setpoint 37.41

+0.3'

top of screen 27

Pump intake[2] _____ (depth from MP)

bottom of screen 47

Measured total depth from TOC 50

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 37.11 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1058
DEPTH TO WATER AT COMPLETION OF SAMPLING: 37.36
TIME AT COMPLETION OF SAMPLING: 1215
CUMULATIVE VOLUME PURGED: ~2 gal.

NOTES / COMMENTS:

Fe^{2+}: 1.058 ppm @ 1039

Well along W. Fence Line

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

AA-09

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-09 DATE 4-24-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Clear, Windy

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 30.00 / 65.00 bottom of screen (below MP)
Pump Intake at 42.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 40 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/- 217.3	+/- .45	—	+/- .10	+/- .37	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1118	38.55	START	PUMP					Flowrate: 200 ml per minute
1123	38.57	24.57	7.251	5.21	207.5	7.17	5.06	Clear, with no odor
1126	38.57	24.39	7.273	4.67	201.3	7.34	3.73	
1129	38.57	24.37	7.264	4.49	197.7	7.38	3.59	
1132	38.57	24.30	7.245	4.52	193.5	7.40	3.71	
1135	38.57	24.25	7.246	4.47	189.6	7.41	3.30	
1138	38.57	24.25	7.257	4.41	187.3	7.41	3.05	
1140	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1139
								Turbidity readings were within
								drinking water standards (<10NTU)

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 38.55

drawdown setpoint 38.85

+0.3'

top of screen 30.00

Pump intake[2] 42.50 (depth from MP)

pump

bottom of screen 65.00

Measured total depth from TOC 69.00

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 38.55 (static WL with out pump in)
DEPTH TO WATER: 38.55 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1140
DEPTH TO WATER AT COMPLETION OF SAMPLING: 38.55
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 4.4 liters

NOTES / COMMENTS: Yellow monument well located in BMI complex.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

AA-11

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-11 DATE 4-24-13
Field Personnel Carlos C.

Sampling Organization *TIMET*
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at ____ (ft. below MP)
Purging Device - pump type ____
Pump Model ____ volume (bladder plus tubing) ____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
								Static water level is (30.68) below pump intake. Well is almost dry. No samples taken.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 30.68

drawdown setpoint ____

+0.3'

top of screen ____

Pump intake[2] ____
(depth from MP)

pump

bottom of screen ____

Measured total depth from TOC 31.55

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: ____ (static WL with out pump in)
DEPTH TO WATER: ____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:____
DEPTH TO WATER AT COMPLETION OF SAMPLING:____
TIME AT COMPLETION OF SAMPLING:____
CUMULATIVE VOLUME PURGED: ____

NOTES / COMMENTS: ____

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

AA-19

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-19 DATE 4-24-13
Field Personnel Carlos C.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top _____/_____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type _____
Pump Model _____ volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
								Well was completely dry. No samples collected.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL DRY

drawdown setpoint _____

+0.3'

top of screen _____

Pump intake[2] _____
(depth from MP)

pump

bottom of screen _____

Measured total depth from TOC 44.19

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: _____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:_____
DEPTH TO WATER AT COMPLETION OF SAMPLING:_____
TIME AT COMPLETION OF SAMPLING:_____
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: _____

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

AA-15

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-15 DATE 4-24-13
Field Personnel Carlos C.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type _____
Pump Model _____ volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
								Static water level (42.50) is below pump intake. Well is almost dry. No samples taken

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 42.50

drawdown setpoint _____

+0.3'

top of screen _____

Pump intake[2] _____
(depth from MP)

pump

bottom of screen _____

Measured total depth from TOC 42.65

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: _____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:_____
DEPTH TO WATER AT COMPLETION OF SAMPLING:_____
TIME AT COMPLETION OF SAMPLING:_____
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: _____

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

POD-2R

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID POD-2R DATE 4-24-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
WARM, CLEAR

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type _____
Pump Model _____ volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
								Static water level (63.61) is at Bladder Pump intake. Well is almost dry. No samples taken.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 63.61

drawdown setpoint

+0.3'

top of screen _____

Pump intake[2] _____
(depth from MP)

pump

bottom of screen _____

Measured total depth from TOC 64.60

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: _____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:_____
DEPTH TO WATER AT COMPLETION OF SAMPLING:_____
TIME AT COMPLETION OF SAMPLING:_____
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: _____

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID J202-R2 DATE 4-24-13
Field Personnel JON SCHAPER

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
warm, clear

Surveyed Measuring Point (MP): TOC Elevation: 1772.46
Depth to top 28.5 / 48.5 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:							below stnd.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1017	Pump	started						
1022	42.28	25.71	7.180	2.82	231.9	7.19	1.06	Flow: 400 ML/MIN
1025	42.30	25.74	7.158	2.26	229.1	7.17	.98	D. 5 sec R. 25 sec.
1028	42.31	25.73	7.148	2.13	226.8	7.17	1.26	
1031	42.32	25.76	7.145	2.06	223.9	7.17	.86	
1034	42.33	25.82	7.149	2.03	222.8	7.17	.75	
1037	42.34	25.73	7.135	2.01	220.4	7.17	.62	← Stable
								• MS/MSD AND Dup-2 Well

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 42.24

drawdown setpoint 42.54 (+0.3')

top of screen 28.5

Pump intake[2] _____ (depth from MP)

bottom of screen 48.5

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 42.24 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1040
DEPTH TO WATER AT COMPLETION OF SAMPLING: 42.39
TIME AT COMPLETION OF SAMPLING: 1315
CUMULATIVE VOLUME PURGED: 8L.

NOTES / COMMENTS:

Fe^{2+}: 0.441 ppm @ 1036

Well is near storage area

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID M-129 DATE 4-25-13
Field Personnel JON SCHAPER

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
SUNNY, calm, warm

Surveyed Measuring Point (MP): TOC Elevation: 1747.26
Depth to top 20 / 40 bottom of screen (below MP)
Pump Intake at 36 (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing)

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			.19	.15	/	.1	37.3	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1032	Pump	Started						
1037	30.69	25.28	6.656	1.55	276.5	7.11	373	Flow: 150 mL/MIN
1040	30.71	25.22	6.646	1.34	272.2	7.11	324	cloudy, no odor
1043	30.73	25.12	6.626	1.24	266.8	7.11	317	
1046	30.74	25.15	6.626	1.24	261.6	7.11	300	
1049	30.75	25.22	6.633	1.29	256.1	7.12	298	
1052	30.76	25.06	6.606	1.35	250.2	7.12	288	Parameters stable; begin sampling
								-replaced vault Lock

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 30.65

drawdown setpoint 30.95 (+0.3')

top of screen 20

Pump intake[2] 36' (depth from MP)

bottom of screen 40

Measured total depth from TOC 42.85

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 30.65 (static WL with out pump in)
DEPTH TO WATER: 30.64 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1055
DEPTH TO WATER AT COMPLETION OF SAMPLING: 30.79
TIME AT COMPLETION OF SAMPLING: 1119
CUMULATIVE VOLUME PURGED: ~1 gal.

NOTES / COMMENTS:

Fe^{2+}: 2.050 ppm @ 1046

Well above NW Fence Line

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-111 DATE 4·25·13
Field Personnel JON SCHAPER

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
SUNNY, calm, warm

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at 54 (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) ____

Parameter tolerences (%):	3%	+/-10%	na	+/- 0.1	+/-10%
Values:	.11	.23	–	.1	2.42

CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1230	Pump	Started						250 mL/min Flow
1235	44.10	25.97	3.825	2.28	145.2	7.41	24.2	2 CPM, 24 R, 6D.
1238	44.11	26.02	3.820	2.41	145.3	7.40	13.02	
1241	44.11	25.97	3.809	2.19	145.7	7.41	6.00	clear, no odor
1244	44.11	25.93	3.804	1.89	145.4	7.41	8.19	
1247	44.11	25.87	3.799	1.91	145.6	7.42	10.63	
1250	44.11	25.89	3.798	1.91	145.3	7.42	10.80	← Stable, begin sampling

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 44.10

drawdown setpoint 44.40

+0.3'

top of screen ____

Pump intake[2] 54.0 (depth from MP)

bottom of screen ____

Measured total depth from TOC 60.30'

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 44.10 (static WL with out pump in)
DEPTH TO WATER: 44.10 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1255
DEPTH TO WATER AT COMPLETION OF SAMPLING: 44.15
TIME AT COMPLETION OF SAMPLING: 1400
CUMULATIVE VOLUME PURGED: ~2 gal.

NOTES / COMMENTS:

Fe^{2+}: 0.018 ppm @ 1251

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TMP2-105 **TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet**

Well ID TMP2-105 DATE 4-25-13
Field Personnel Carlos C.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top 19.00 / 39.00 bottom of screen (below MP)
Pump Intake at 38.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: ~~150ml~~ 40 psi, 1 gpm, 7 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.31	+/-.54	—	+/-.10	+/-.30	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1030	34.02	START	PUMP					Flowrate: 150ml per minute
1035	34.11	26.35	10.65	5.81	216.9	7.36	3.23	Clear, with no oder
1038	34.13	25.72	10.54	5.36	209.8	7.35	3.13	
1041	34.15	25.44	10.48	5.48	205.6	7.35	3.07	
1044	34.15	25.24	10.43	5.87	202.4	7.35	3.01	
1047	34.15	25.07	10.38	5.91	199.9	7.35	2.85	
1050	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1048
								Turbidity readings were within
								drinking water standards (<10NTU)

Well information

Dedicated pump (Y/N) (N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 34.02

drawdown setpoint 34.32

+0.3'

top of screen 19.00

Pump intake[2] 38.00 (depth from MP)

pump

bottom of screen 39.00

Measured total depth from TOC

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 34.02 (static WL with out pump in)
DEPTH TO WATER: 33.95 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1050
DEPTH TO WATER AT COMPLETION OF SAMPLING: 34.07
TIME AT COMPLETION OF SAMPLING: 1201
CUMULATIVE VOLUME PURGED:

NOTES / COMMENTS: Yellow Flush mount well located at the NW corner of Timet property.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-108 DATE 4-25-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 26.00 / 46.00 bottom of screen (below MP)
Pump Intake at 37.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 40 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.54	+/-.165	—	+/-.10	+/-.06	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1243	33.54	START	PUMP					Flowrate: 250 ml per minute
1248	33.56	26.74	17.81	3.38	214.6	7.25	1.57	Clear, with no odor
1251	33.56	26.31	17.85	2.04	205.8	7.21	.61	
1254	33.56	26.04	17.84	1.81	197.1	7.20	.83	
1257	33.56	26.00	17.85	1.65	191.0	7.20	.66	
1300	33.56	25.94	17.83	1.57	184.7	7.20	.48	
1303	33.56	25.89	17.81	1.53	179.7	7.20	.25	
1305	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1304
								Turbidity readings were within drinking water standards (<10NTU)

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 33.54

drawdown setpoint 33.84

+0.3'

top of screen 26.00

Pump intake[2] 37.50 (depth from MP)

pump

bottom of screen 46.00

Measured total depth from TOC 46.50

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 33.54 (static WL with out pump in)
DEPTH TO WATER: 33.50 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1305
DEPTH TO WATER AT COMPLETION OF SAMPLING: 33.57
TIME AT COMPLETION OF SAMPLING: 1313
CUMULATIVE VOLUME PURGED:

NOTES / COMMENTS: Yellow Flush mount well located along the north fence line next to Warm Springs Rd.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID M-130 DATE 4-29-13
Field Personnel JON SCHAPER

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
SUNNY, calm

Surveyed Measuring Point (MP): TOC Elevation: 1749.23
Depth to top 20 / 40 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):	3%	+/-10%	na	+/- 0.1	+/-10%
Values:	0.21	.17	-	.1	16.4

CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1209	Pump	Started						
1214	29.30	25.95	6.998	1.70	142.3	7.25	164	Flow: 175 mL/min
1217	29.30	25.81	6.951	1.64	143.4	7.26	120	
1220	29.30	25.84	6.927	1.70	143.7	7.26	119	
1223	29.31	25.92	6.931	1.69	144.2	7.26	111	
1226	29.33	27.45	7.114	1.77	147.1	7.27	119	
1229	29.31	27.62	7.170	1.85	148.2	7.27	126	
1234	29.31	26.77	7.047	1.85	149.3	7.26	136	
1237	29.31	27.01	7.075	1.68	149.5	7.26	129	
1240	29.31	27.44	7.152	1.54	148.6	7.26	133	
1243	29.31	27.65	7.192	1.49	147.7	7.26	130	
								* Included PCBs and a DUP-A for PCBs. Also, MS/MSD for PCBs.
								Water got cloudier while filling up sample container for metals.

RECORDED PARAMETERS
INI. DEPTH TO WATER: 29.31 (static WL with out pump in)
DEPTH TO WATER: 29.28 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1245
DEPTH TO WATER AT COMPLETION OF SAMPLING: 29.32
TIME AT COMPLETION OF SAMPLING: 1400
CUMULATIVE VOLUME PURGED: ~2.5 gal.

NOTES / COMMENTS:
Fe^{2+}: 0.904 ppm @ 1228
W. Fence Line

Well information

Dedicated pump (Y / N)
Stick-up or flush mount (circle)
Note: measurements from MP
Static WL 29.31
drawdown setpoint 29.61
+0.3'
top of screen 20
Pump intake[2] _____ (depth from MP)
pump
bottom of screen 40
Measured total depth from TOC _____
Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-106 DATE 4-29-13
Field Personnel JON SCHAPER

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, sunny, calm

Surveyed Measuring Point (MP): TOC Elevation 1742.25
Depth to top 19 / 39 bottom of screen (below MP)
Pump Intake at 36' (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing)

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:						.1	below stnd.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1028	Pump	Started						Flow: 200 mL/min
1033	31.71	24.82	13.43	1.54	241.3	7.04	5.69	D: 5 sec. R. 25
1036	31.72	24.59	13.36	1.57	239.5	7.05	4.59	
1039	31.72	24.57	13.32	1.64	237.3	7.05	2.69	
1042	31.72	24.53	13.30	1.79	235.8	7.05	3.04	
1045	31.73	24.53	13.28	1.69	233.8	7.05	4.50	
1048	31.73	24.50	13.26	1.76	231.8	7.05	4.26	

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 31.70

drawdown setpoint 32.00

+0.3'

top of screen 19

Pump intake[2] 36' (depth from MP)

bottom of screen 39

Measured total depth from TOC 39

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 31.70 (static WL with out pump in)
DEPTH TO WATER: 31.69 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1050
DEPTH TO WATER AT COMPLETION OF SAMPLING: 31.74
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 2 gal.

NOTES / COMMENTS:

Fe^{2+}: 0.71 ppm @ 1047

N. Fence Line

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-109 DATE 4-29-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 26.00 / 46.00 bottom of screen (below MP)
Pump Intake at 40.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 40 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1[1]	+/-10%	
Values:			+/-.220	+/-.25	—	+/-.10	+/-.03	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1028	35.96	START	PUMP					Flowrate: 250 ml per minute
1033	35.98	26.86	7.426	3.23	209.4	7.15	1.03	Clear with no odor
1036	35.98	26.60	7.393	2.87	201.8	7.16	.59	
1039	35.98	26.53	7.374	2.69	196.5	7.17	.41	
1042	35.98	26.45	7.361	2.55	193.1	7.17	.28	
1045	35.98	26.34	7.344	2.53	187.9	7.18	.34	
1048	35.98	26.35	7.339	2.52	183.1	7.18	.31	
1050	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1049
								Turbidity readings were within
								drinking water standards (<10NTU)

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 35.96

drawdown setpoint 36.26

+0.3'

top of screen 26.00

Pump intake[2] 40.00 (depth from MP)

pump

bottom of screen 46.00

Measured total depth from TOC

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 35.96 (static WL with out pump in)
DEPTH TO WATER: 35.92 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1050
DEPTH TO WATER AT COMPLETION OF SAMPLING: 35.97
TIME AT COMPLETION OF SAMPLING: 1100
CUMULATIVE VOLUME PURGED: 5.5 liters

NOTES / COMMENTS: Flush mount well located along the north fence line of Timet property.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-112 DATE 4-29-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at 52.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing) ____

Pump settings: 50 psi, 2 cpm, 46 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.161	+/-.19	—	+/-.10	+/-.05	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1203	48.42	START	PUMP					Flowrate: 200ml per minute
1208	48.53	29.28	5.654	3.58	197.8	7.48	4.87	Clear, with no odor
1211	48.53	27.96	5.543	2.56	161.1	7.42	2.61	
1214	48.54	27.61	5.497	2.19	138.1	7.41	1.05	
1217	48.54	27.83	5.522	1.91	111.3	7.41	.87	
1220	48.55	27.44	5.457	2.11	95.1	7.42	.76	
1223	48.55	26.75	5.389	1.93	77.4	7.42	.69	
1226	48.56	26.58	5.369	1.91	63.1	7.42	.72	
1229	48.56	26.41	5.355	1.86	55.3	7.43	.55	
1232	48.57	26.35	5.352	1.84	49.7	7.43	.62	
1235	48.57	26.47	5.368	1.77	44.3	7.43	.58	
1240	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1238
								Turbidity readings were within
								drinking water standards (≤10 NTU)

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 48.42

drawdown setpoint 48.72 (+0.3')

top of screen ____

Pump intake[2] 52.50 (depth from MP)

bottom of screen ____

Measured total depth from TOC 58.50

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 48.42 (static WL with out pump in)
DEPTH TO WATER: 48.42 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1240
DEPTH TO WATER AT COMPLETION OF SAMPLING: 48.65
TIME AT COMPLETION OF SAMPLING: 1351
CUMULATIVE VOLUME PURGED: 7.4 liters

NOTES / COMMENTS: Flush mount well located along East Fenceline next to Boulder Hwy.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

CLD1-R

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID CLD1-R DATE 4-30-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 16.00 / 29.00 bottom of screen (below MP)
Pump Intake at 32.50 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 30 psi, 2 gpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.217	+/-.07	—	+/-.10	+/-.09	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1220	29.53	START	PUMP					Flowrate: 250 ml per minute
1225	29.56	26.01	7.351	1.04	129.8	6.99	2.97	Clear, with no odor
1228	29.56	25.77	7.276	.57	116.9	6.98	2.02	
1231	29.56	25.75	7.271	.42	114.1	6.98	1.60	
1234	29.56	25.41	7.234	.47	108.2	6.99	1.38	
1237	29.56	25.38	7.236	.50	101.3	7.00	1.15	
1240	29.56	25.38	7.232	.61	96.8	7.01	1.04	
1243	29.56	25.47	7.238	.69	92.7	7.02	.88	
1246	29.56	25.53	7.261	.68	90.7	7.03	.71	
1249	29.56	25.41	7.244	.70	88.0	7.03	.64	
1250	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1247
								Turbidity readings were within
								drinking water standards (<10NTU)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 29.53 (static WL with out pump in)
DEPTH TO WATER: 29.53 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1250
DEPTH TO WATER AT COMPLETION OF SAMPLING: 29.54
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 7.5 liters

NOTES / COMMENTS: Yellow monument well located roughly 100 yds east of Tronox fence line.

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 29.53

drawdown setpoint 29.83

+0.3'

top of screen 16.00

Pump intake[2] 32.50 (depth from MP)

pump

bottom of screen 29.00

Measured total depth from TOC 33.50

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

AA-20

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID AA-20 DATE 4-30-13
Field Personnel Carlos C.

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top 10.00 / 30.00 bottom of screen (below MP)
Pump Intake at 32.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 30 psi, 2 cpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.206	+/-.61	—	+/-.10	+/-.07	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1020	31.24	START	PUMP					Flowrate: 200 ml per minute
1025	31.27	25.50	6.916	6.18	213.8	7.29	1.38	Clear, with no odor
1028	31.27	25.26	6.896	6.32	209.4	7.30	1.14	
1031	31.27	25.22	6.888	6.09	204.7	7.30	.77	
1034	31.27	25.24	6.881	6.21	201.2	7.31	.59	
1037	31.27	25.22	6.884	6.10	197.0	7.31	.53	
1040	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1038
								Turbidity readings were within
								drinking water standards (<10NTU)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 31.24 (static WL with out pump in)
DEPTH TO WATER: 31.24 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1040
DEPTH TO WATER AT COMPLETION OF SAMPLING: 31.26
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 4.0 liters

NOTES / COMMENTS: Yellow monument well in BMI complex across from water reclamation plant.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 31.24

drawdown setpoint 31.54

+0.3'

top of screen 10.00

Pump intake[2] 32.00 (depth from MP)

pump

bottom of screen 30.00

Measured total depth from TOC 33.05

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field

Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID J2D1-R2 DATE 4-30-13
Field Personnel JON SCHAPER

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
SUNNY, warm, light breeze
Winds increased around 1130 to gusty.

Surveyed Measuring Point (MP): TOC Elevation: 1773.38
Depth to top 19 / 44 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			.23	.69	—	.1	below stud	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1031	Pump	Started						Flow: ≤ 50 mL/MIN.
1040	Pump	Stopped						Controller malfunction, Pressure not holding
1128	Pump	Started						Controller/Compressor working, start Pump
1133	40.24	27.28	7.635	6.86	181.0	7.16	2.85	Flow: 200 mL/MIN
1136	40.26	27.20	7.627	6.88	186.4	7.16	1.96	Flow: 200 mL/MIN
1139	40.28	27.22	7.636	6.95	191.3	7.16	1.87	Flow: 225 mL/MIN
1142	40.28	27.20	7.631	6.95	194.9	7.16	1.64	Flow: 225 mL/MIN
1145	40.29	27.22	7.642	6.92	197.3	7.16	1.35	
1148	40.29	27.19	7.646	6.89	200.1	7.16	1.40	
1151	40.28	27.12	7.646	6.94	201.7	7.16	1.28	← Stable begin Sampling
								★ DUP-3 Well

Well information

Dedicated pump (Y/ N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 40.20

drawdown setpoint 40.50

+0.3'

top of screen 19

Pump intake[2] _____ (depth from MP)

bottom of screen 44

Measured total depth from TOC 47.80

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 40.20 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1200
DEPTH TO WATER AT COMPLETION OF SAMPLING: 40.29
TIME AT COMPLETION OF SAMPLING: _____
CUMULATIVE VOLUME PURGED: ~2.75 gal.

NOTES / COMMENTS:

Fe^{2+}: 0.096 ppm @ 1150

@ Well Yellow base reads R2D1-R2, should read J2D1-R2

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID S2D4 DATE 5-1-13
Field Personnel JON SCHAPER

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
SUNNY, warm, windy

Surveyed Measuring Point (MP): TOC Elevation: 1774.29
Depth to top 15 / 45 bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type Bladder
Pump Model QED volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			.37	.48	—	.1	below stnd.	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1028	Pump	Started with	Flow					
1033	37.62	25.42	12.39	4.77	277.6	7.08	0.63	
1036	37.63	25.42	12.45	4.74	277.5	7.08	0.69	Flow: 250 ml/min
1039	37.64	25.43	12.44	4.72	277.4	7.07	0.50	R: 25 D: 5
1042	37.66	25.42	12.43	4.74	277.2	7.09	0.62	
1045	37.65	25.44	12.43	4.72	277.0	7.09	1.26	
1048	37.65	25.41	12.43	4.69	276.9	7.09	0.89	
								Well sampled for MS, MSD, TKN
								and DUP-4

Well information

Dedicated pump (Y)/ N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 37.62

drawdown setpoint 37.92

+0.3'

top of screen 15

Pump intake[2] _____ (depth from MP)

bottom of screen 45

Measured total depth from TOC _____

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: NM (static WL with out pump in)
DEPTH TO WATER: 37.62 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1050
DEPTH TO WATER AT COMPLETION OF SAMPLING: 37.69
TIME AT COMPLETION OF SAMPLING: _____
CUMULATIVE VOLUME PURGED: ~1.25 gal.

NOTES / COMMENTS:

Fe^{2+} : 0.133 ppm @ 1046

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

EWQAL-12 **TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet**

Well ID EWQAL-12 DATE 5-1-13
Field Personnel Carlos C.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top 31.00 / 51.00 bottom of screen (below MP)
Pump Intake at 45.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 40 psi, 2 gpm, 45 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1'	+/-10%	
Values:			+/-.186	+/-.06	—	+/-.10	+/-.45	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1028	40.96	START	PUMP					Flowrate: 200 ml per minute
1033	41.07	25.13	6.183	2.26	199.6	7.19	5.91	Clear, with no odor
1036	41.10	25.16	6.205	1.35	191.1	7.20	5.25	
1039	41.11	25.19	6.207	1.03	183.7	7.20	4.88	
1042	41.12	25.20	6.198	.78	179.5	7.21	4.31	
1045	41.13	25.17	6.193	.68	175.3	7.21	4.47	
1048	41.14	25.19	6.189	.67	171.7	7.21	3.72	
1051	41.15	25.21	6.189	.65	169.5	7.21	3.49	
1055	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1052
								Turbidity readings were within
								drinking water standards (<10NTU)

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 40.96

drawdown setpoint 41.26 (+0.3')

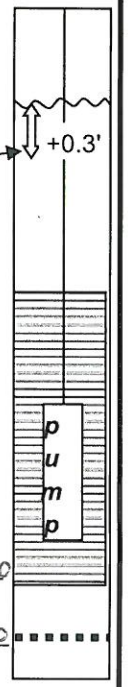
top of screen 31.00

Pump intake[2] 45.00 (depth from MP)

bottom of screen 51.00

Measured total depth from TOC 58.80

Blank casing (Y/N)



RECORDED PARAMETERS

INI. DEPTH TO WATER: 40.96 (static WL with out pump in)
DEPTH TO WATER: 40.96(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1055
DEPTH TO WATER AT COMPLETION OF SAMPLING: 41.18
TIME AT COMPLETION OF SAMPLING:
CUMULATIVE VOLUME PURGED: 5.41 liters

NOTES / COMMENTS: Well is in Box vault North of water treatment discharge

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TMPZ-110

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID TMPZ-110 DATE 5-1-13
Field Personnel Carlos C.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top 25.00 / 45.00 bottom of screen (below MP)
Pump Intake at 43.00 (ft. below MP)
Purging Device - pump type Bladder Pump
Pump Model QED Sample Pro volume (bladder plus tubing)

Pump settings: 40 psi, 1 gpm, 5 ID

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:			+/-.213	+/-.116	—	+/-.10	+/-.02	
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1245	38.94	Start	Pump					Flowrate: 150 ml per minute
1250	39.00	26.24	7.167	3.32	132.4	7.07	1.01	Clear, with no odor
1253	39.02	25.91	7.125	1.79	116.1	7.02	.75	
1256	39.04	25.73	7.117	1.48	107.8	7.01	.48	
1259	39.05	25.70	7.110	1.45	101.3	7.01	.25	
1302	39.06	25.54	7.096	1.16	90.2	7.02	.19	
1305	39.07	25.48	7.097	1.12	83.0	7.02	.16	
1308	39.08	25.50	7.104	1.07	77.1	7.02	.15	
1310	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1309
								Turbidity readings were within
								drinking water standards (<10NTU)
								Duplicate sample (DUP-5) was
								collected from this well.

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 38.94

drawdown setpoint 39.24

+0.3'

top of screen 25.00

Pump intake[2] 43.00 (depth from MP)

pump

bottom of screen 45.00

Measured total depth from TOC 49.60

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 38.94 (static WL with out pump in)
DEPTH TO WATER: 38.94 (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1310
DEPTH TO WATER AT COMPLETION OF SAMPLING: 39.19
TIME AT COMPLETION OF SAMPLING: 1510
CUMULATIVE VOLUME PURGED: 3.8 liters

NOTES / COMMENTS: Yellow Flush mount well located along east fence line next to Boulder Hwy

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID CMT-101 DATE 5-2-13
Field Personnel Carlos C., Jonathan S.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Clear, Windy

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top NM / NM bottom of screen (below MP)
Pump Intake at 50.00 (ft. below MP)
Purging Device - pump type CMT Well Pump
Pump Model Solinst volume (bladder plus tubing)

Pump settings: 28 psi, 15 sec. discharge, 15 sec. refill

Turbidity within drinking water standards <10NTU

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1107	START	PUMP						Flowrate: 50 ml per minute
1117		27.79	3.793	6.31	-60.2	7.29	2.38	clear, with no odor
1120		28.16	5.747	5.52	-63.1	7.28	2.15	
1123		28.37	6.112	4.89	-61.1	7.30	4.07	
1126		28.71	6.440	4.61	-58.2	7.31	1.28	
1129		29.39	6.742	4.54	-57.1	7.33	4.57	
1132		29.41	6.860	4.28	-55.7	7.35	2.03	
1135		29.50	6.955	4.21	-54.1	7.37	1.66	
1138		29.59	7.137	4.03	-48.7	7.35	.94	
1141		29.62	7.279	3.92	-44.5	7.34	.71	Flowrate dropped to 20 ml per minute
1144		29.64	7.445	3.95	-39.1	7.33	.67	Nitrogen tank pressure dropped from
1147		29.70	7.497	3.85	-34.4	7.34	.82	2000 psi to 500 psi
1150	Sample	taken						
								Nitrogen tank was empty after
								collecting VOC samples (3-40ml vials)
								Fe+2: 0.0 mg/L @ 1145

RECORDED PARAMETERS
INI. DEPTH TO WATER: 33.40 (static WL with out pump in)
DEPTH TO WATER: _____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1150
DEPTH TO WATER AT COMPLETION OF SAMPLING: _____
TIME AT COMPLETION OF SAMPLING: _____
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: Sample collection was incomplete due to empty tank. Possible leak inside of control box

Well information

Dedicated pump (Y/N) N

Stick-up or flush mount (circle)

Note: measurements from MP
Static WL 33.40

drawdown setpoint N/A

+0.3'

top of screen NM

Pump intake[2] 50.00 (depth from MP)

pump

bottom of screen NM
Measured total depth from TOC 51.00

Blank casing (Y/N)

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

CMT-101

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID CMT-101 DATE 5-9-13
Field Personnel Carlos C.

Sampling Organization ***TIMET***
Field observations:(weather, well conditions etc.)
Warm, Clear

Surveyed Measuring Point (MP): *TOC* Elevation:
Depth to top ____/____ bottom of screen (below MP)
Pump Intake at 50.00 (ft. below MP)
Purging Device - pump type CMT Pump
Pump Model Solinst volume (bladder plus tubing) ____

Pump settings: 25 psi, 15 sec discharge, 15 sec refill

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								← Within drinking water standards (<10NTU)
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1103	33.32							Set up pump and sampling equipment.
1120	START	PUMP						
1128	~~35.64~~	35.64	5.213	5.04	15.3	7.63	2.28	Flowrate: 40 ml per minute
1131		35.96	5.477	4.40	18.5	7.63	1.76	Clear with no odor
1134		36.01	5.498	4.35	20.3	7.62	1.22	
1137		35.94	5.510	4.25	21.8	7.61	1.39	
1140		36.04	5.543	4.16	21.1	7.63	.97	
1143		36.01	5.530	4.13	24.4	7.62	1.01	
1146		35.99	5.536	4.09	26.1	7.62	.75	
1150	Sample	taken						Fe^{+2}: 0.0 mg/L @ 1148

Well information

Dedicated pump (Y/N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 33.32

drawdown setpoint N/A

top of screen ____

Pump intake[2] 50.00 (depth from MP)

bottom of screen ____

Measured total depth from TOC 51.00

Blank casing (Y/N)

RECORDED PARAMETERS

INI. DEPTH TO WATER: 33.32 (static WL with out pump in)
DEPTH TO WATER: N/A (W/ PUMP INSTALLED)
TIME AT START OF SAMPLING: 1150
DEPTH TO WATER AT COMPLETION OF SAMPLING: 35.02
TIME AT COMPLETION OF SAMPLING: 1615
CUMULATIVE VOLUME PURGED: ____

NOTES / COMMENTS: During sample collection Flow rate fluctuated continuosly between 10 ml per minute to 40 ml per minute which made collection time last hours.

Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

TIMET Groundwater Monitoring Program - Micropurge Gauging and Sampling Sheet

Well ID J2U1 DATE 5-2-13
Field Personnel JON SCHAPER

Sampling Organization TIMET
Field observations:(weather, well conditions etc.)
Warm, Windy

Surveyed Measuring Point (MP): TOC Elevation:
Depth to top _____/_____ bottom of screen (below MP)
Pump Intake at _____ (ft. below MP)
Purging Device - pump type _____
Pump Model _____ volume (bladder plus tubing) _____

Parameter tolerences (%):			3%	+/-10%	na	+/- 0.1	+/-10%	
Values:								
CLOCK TIME (24 HR)	STATIC WATER DEPTH (SWL)	TEMP °C °F °K	SPECIFIC COND. (mS/cm)	DO (Mg/L)	ORP (Eh)	pH	TURBIDITY (NTU)	Notes/Comments
1001	51.93							
								Pump intake is ~1' from bottom, thus insufficient water to sample

RECORDED PARAMETERS

INI. DEPTH TO WATER: _____ (static WL with out pump in)
DEPTH TO WATER: _____(W/ PUMP INSTALLED)
TIME AT START OF SAMPLING:_____
DEPTH TO WATER AT COMPLETION OF SAMPLING:_____
TIME AT COMPLETION OF SAMPLING:_____
CUMULATIVE VOLUME PURGED: _____

NOTES / COMMENTS: _____

Well information

Dedicated pump (Y / N)

Stick-up or flush mount (circle)

Note: measurements from MP

Static WL 51.93

drawdown setpoint NA

+0.3'

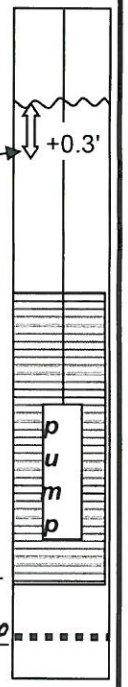
top of screen _____

Pump intake[2] _____ (depth from MP)

bottom of screen _____

Measured total depth from TOC 52.40

Blank casing (Y/N)



Note 1: Shaded cells should be filled in prior to going into the field
Note 2: Pump intake should be set at the middle of the well screen interval in accordance with TIMET-SOP No. 103

Appendix C

Hydrographs

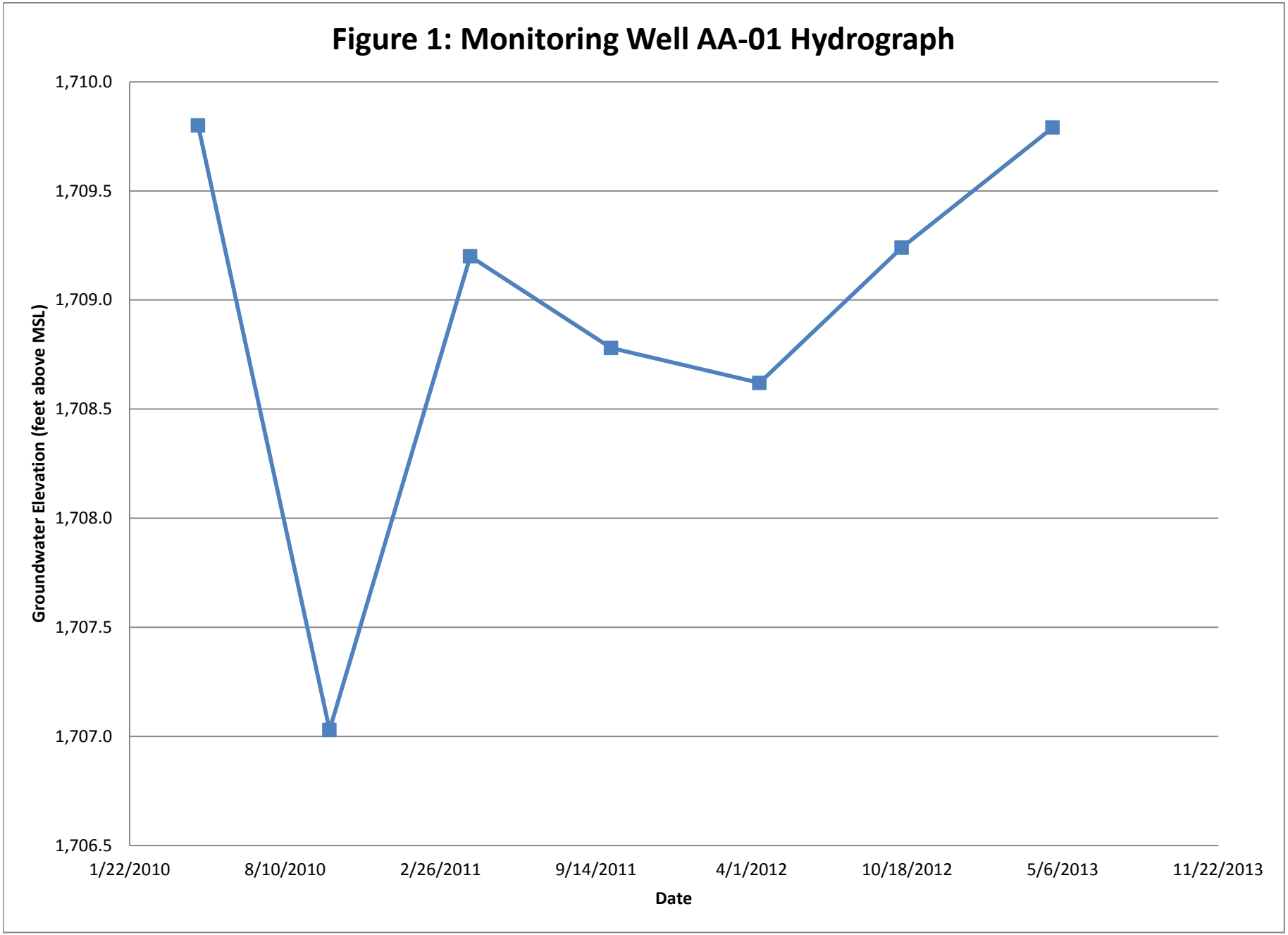


Figure 1: Monitoring Well AA-01 Hydrograph
1,710.0
1,709.5
1,709.0
1,708.5
1,708.0
1,707.5
1,707.0
1,706.5
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

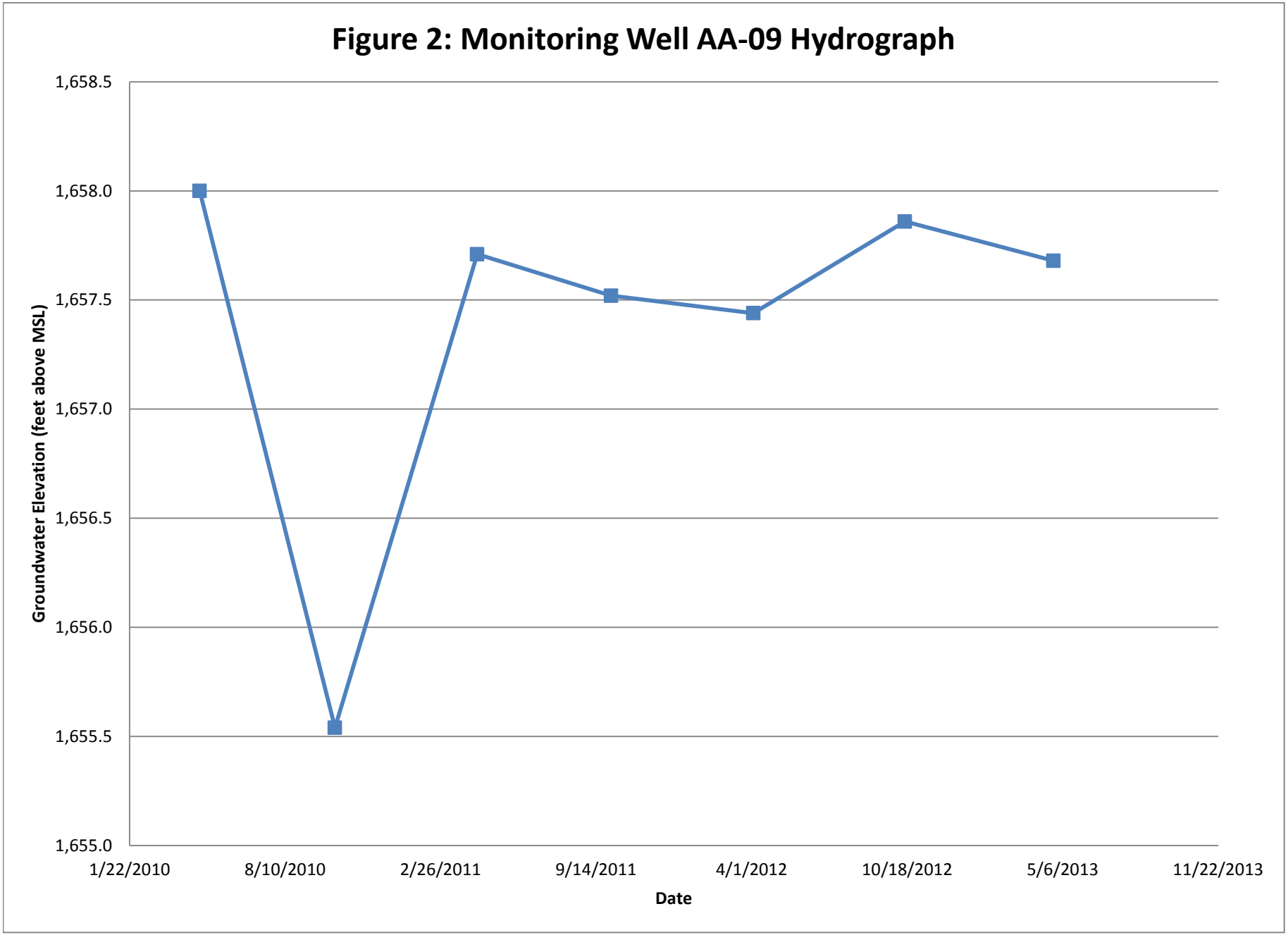


Figure 2: Monitoring Well AA-09 Hydrograph
1,658.5
1,658.0
1,657.5
1,657.0
1,656.5
1,656.0
1,655.5
1,655.0
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

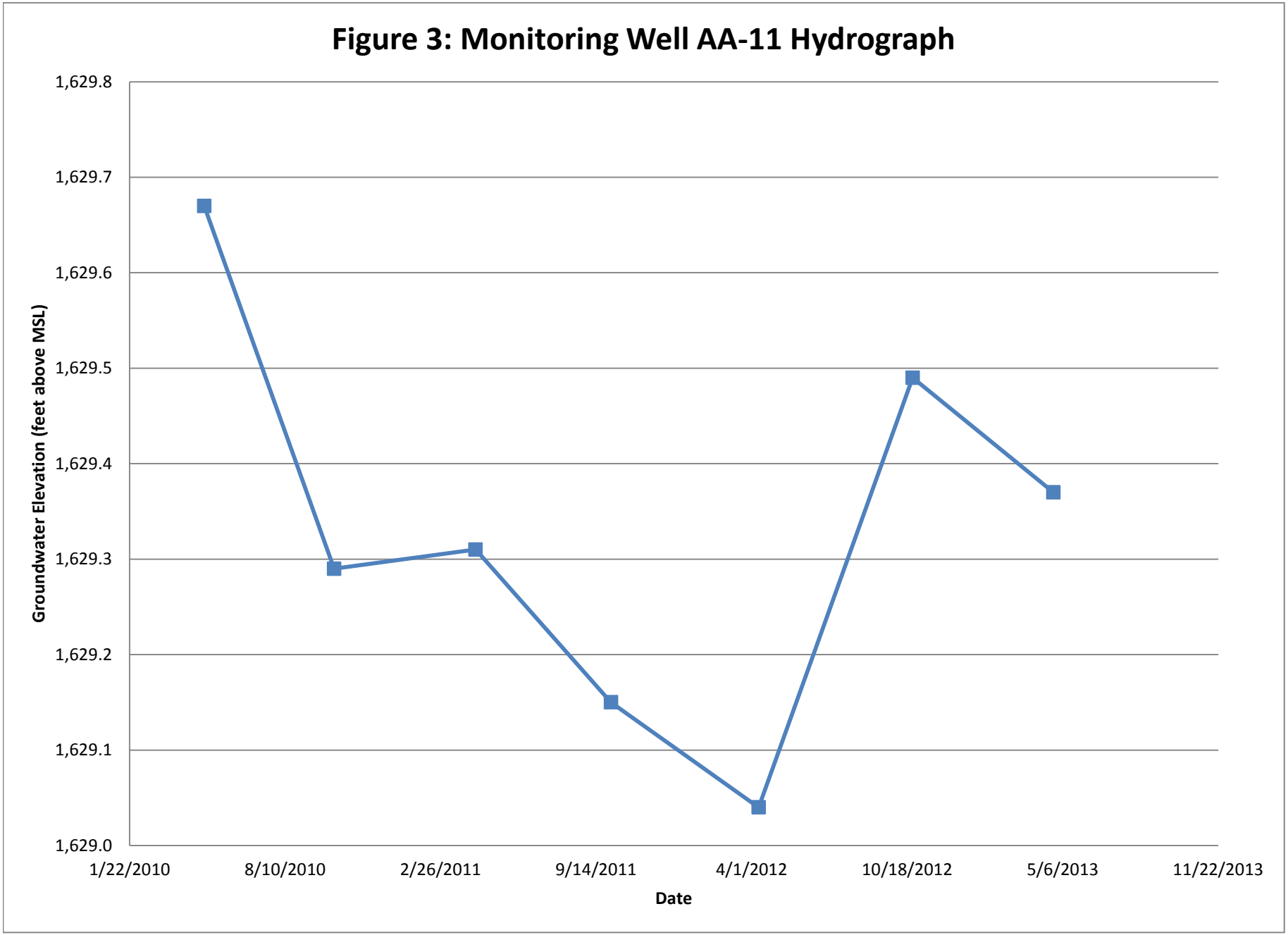


Figure 3: Monitoring Well AA-11 Hydrograph
1,629.8
1,629.7
1,629.6
1,629.5
1,629.4
1,629.3
1,629.2
1,629.1
1,629.0
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

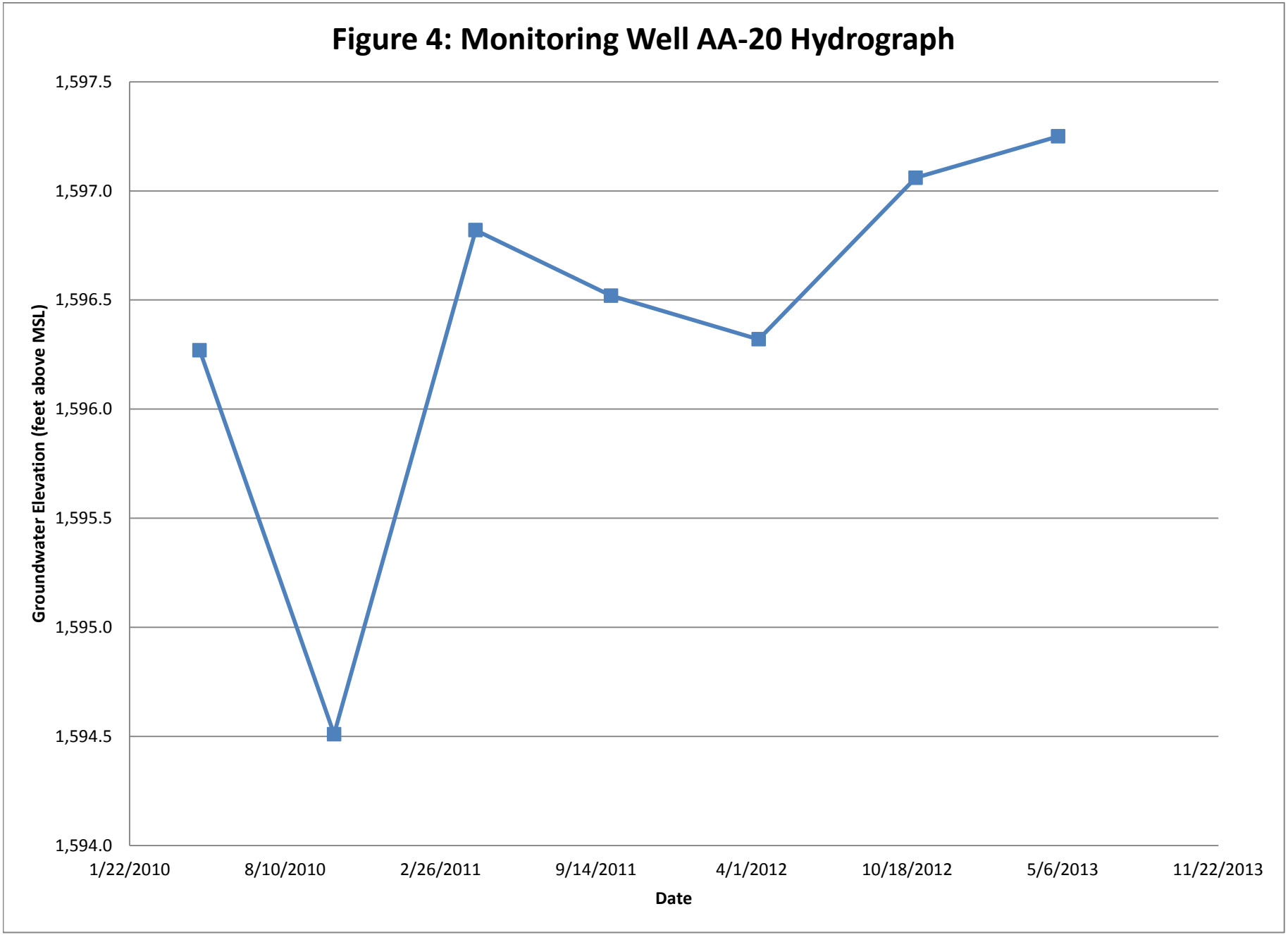


Figure 4: Monitoring Well AA-20 Hydrograph
1,597.5
1,597.0
1,596.5
1,596.0
1,595.5
1,595.0
1,594.5
1,594.0
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

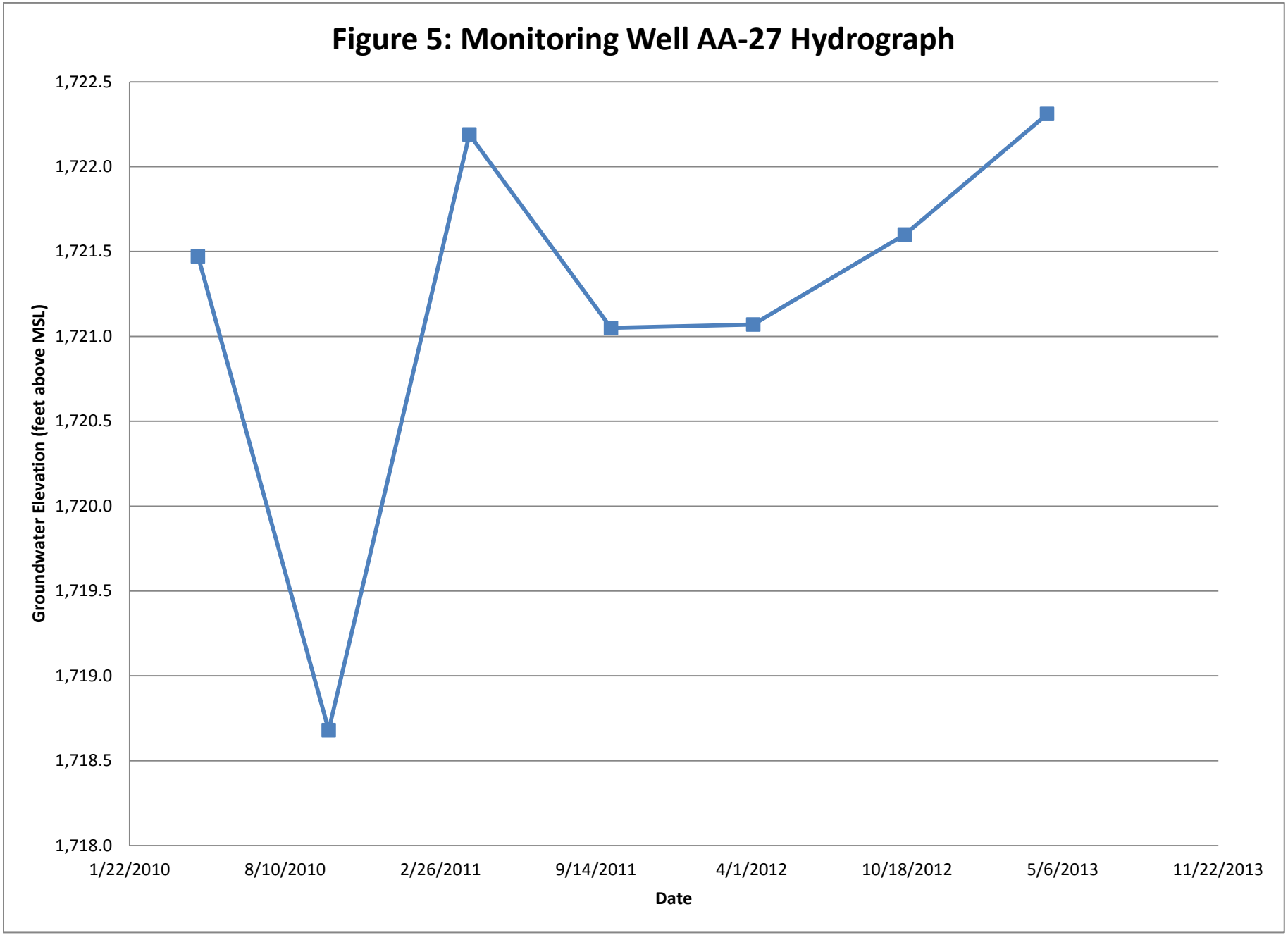


Figure 5: Monitoring Well AA-27 Hydrograph
Groundwater Elevation (feet above MSL)
1,722.5
1,722.0
1,721.5
1,721.0
1,720.5
1,720.0
1,719.5
1,719.0
1,718.5
1,718.0
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

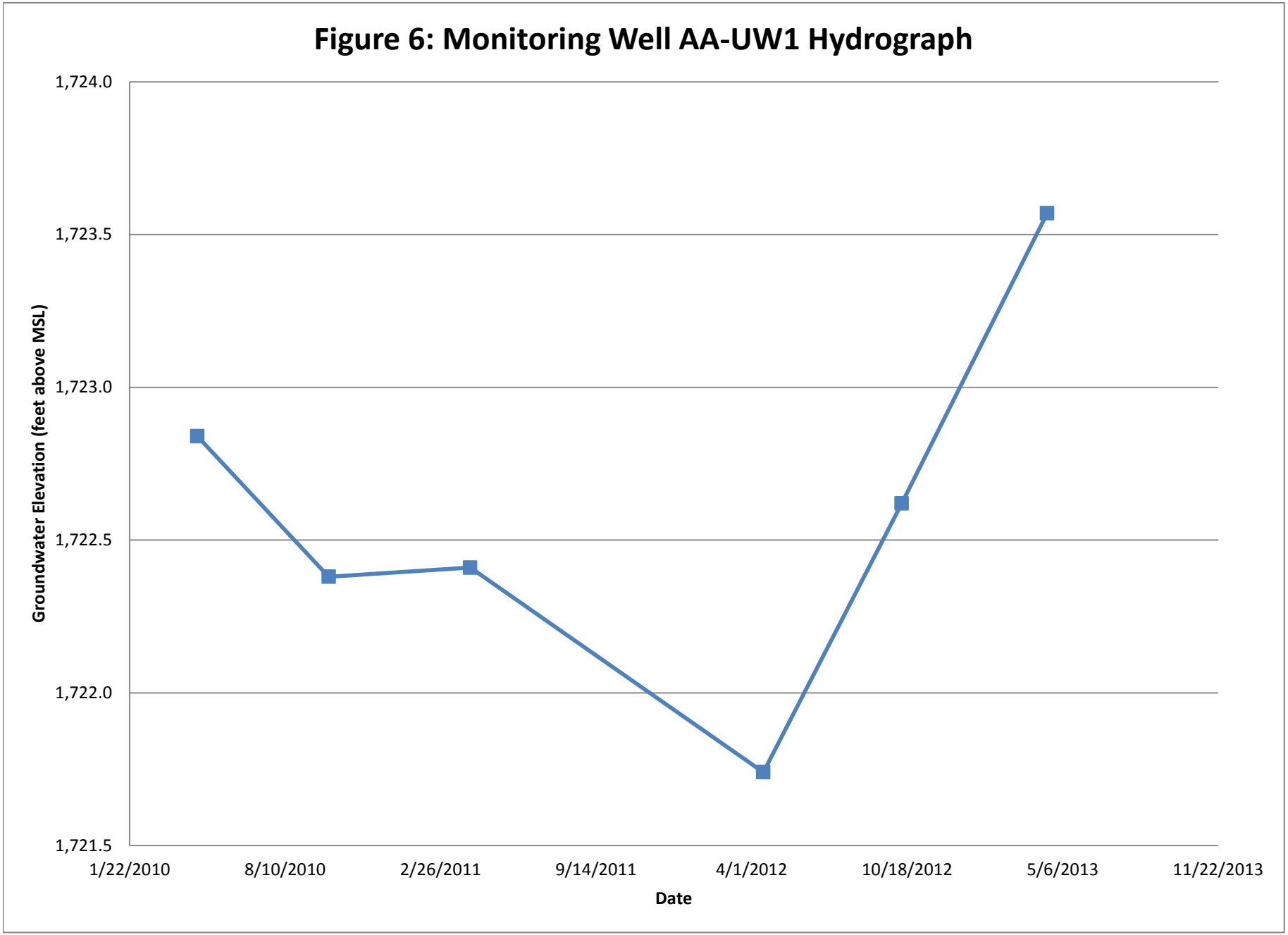


Figure 6: Monitoring Well AA-UW1 Hydrograph
1,724.0
1,723.5
1,723.0
1,722.5
1,722.0
1,721.5
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

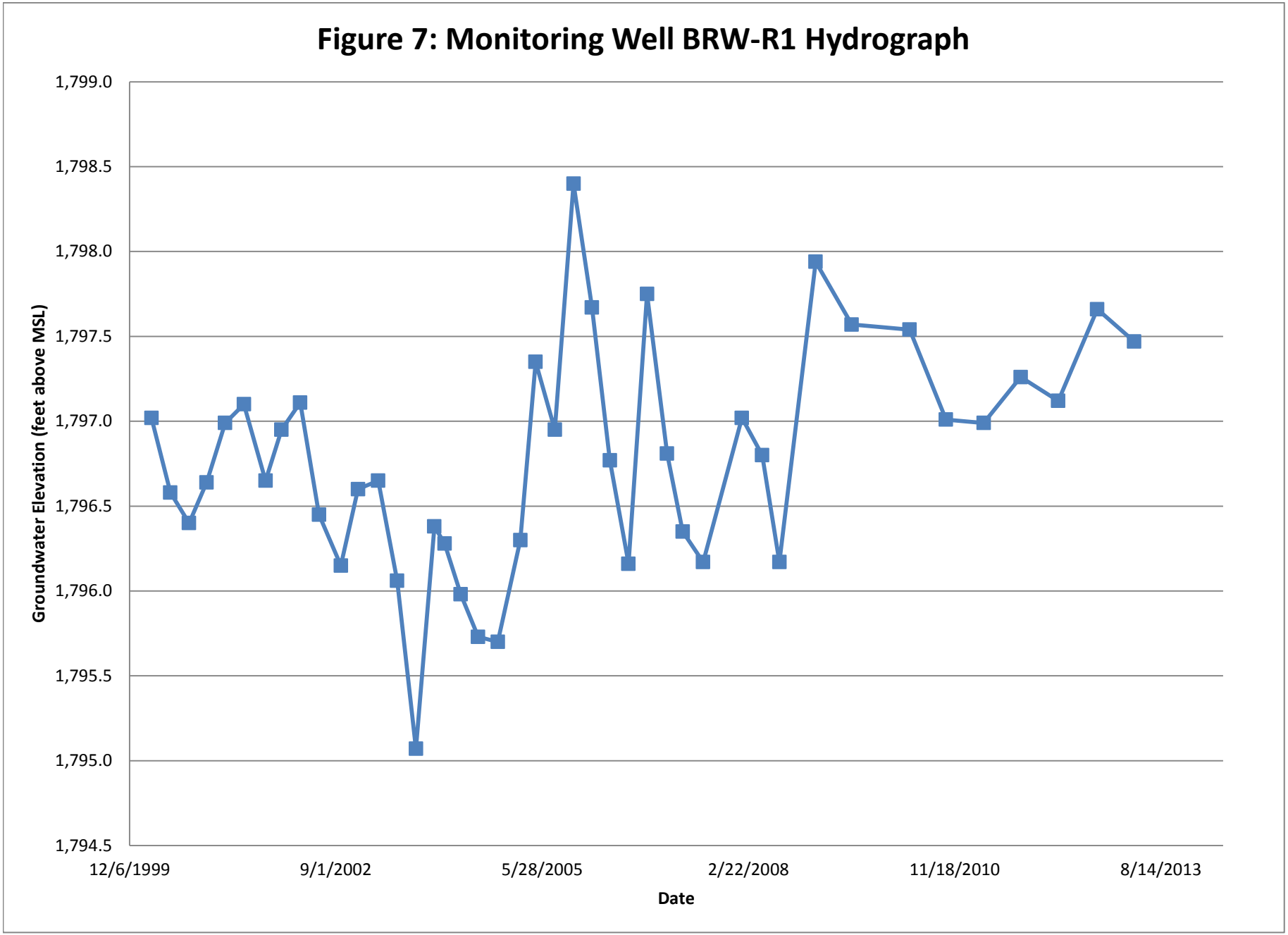


Figure 7: Monitoring Well BRW-R1 Hydrograph
1,799.0
1,798.5
1,798.0
1,797.5
1,797.0
1,796.5
1,796.0
1,795.5
1,795.0
1,794.5
Groundwater Elevation (feet above MSL)
12/6/1999
9/1/2002
5/28/2005
2/22/2008
11/18/2010
8/14/2013
Date

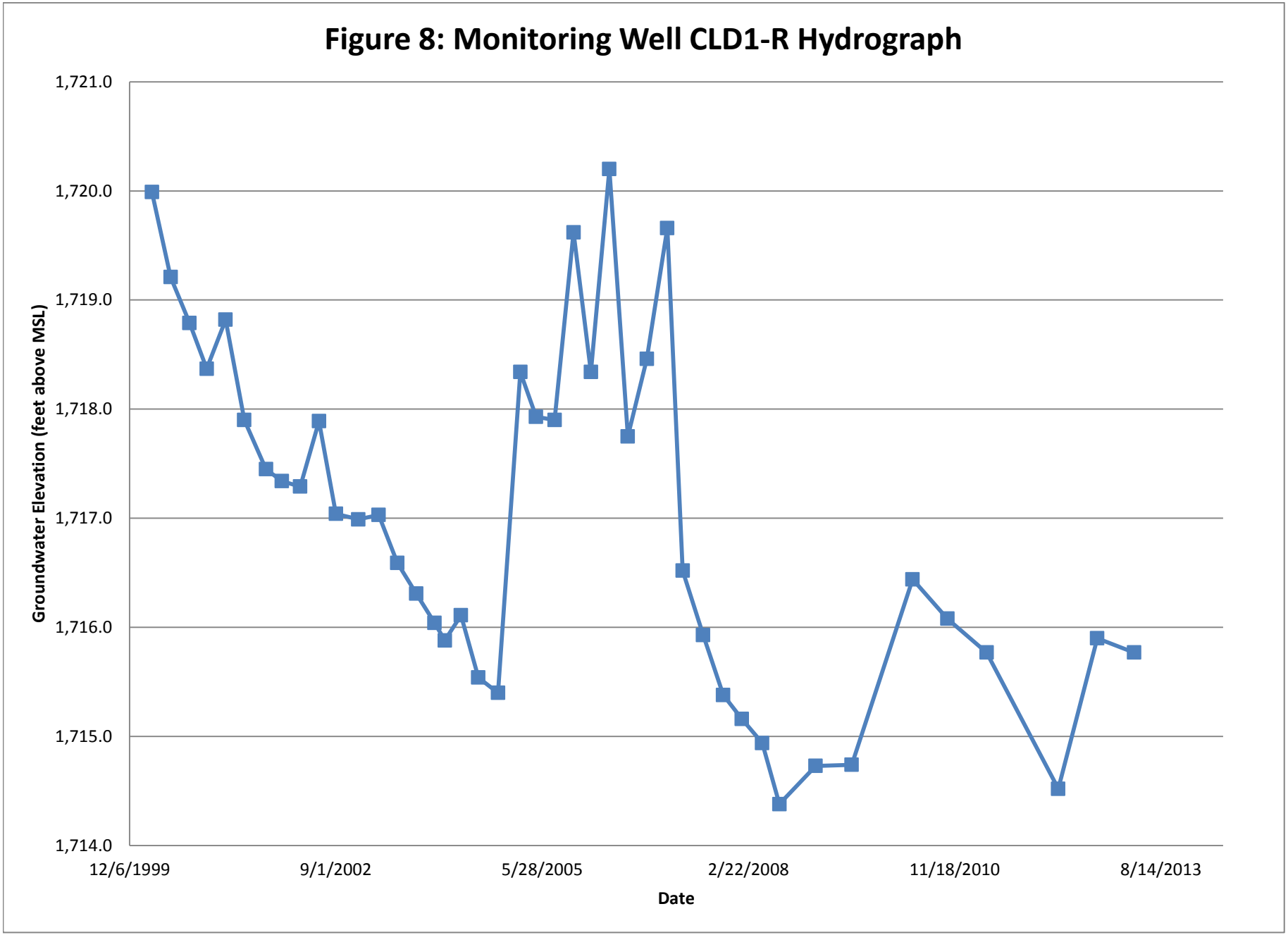


Figure 8: Monitoring Well CLD1-R Hydrograph
1,721.0
1,720.0
1,719.0
1,718.0
1,717.0
1,716.0
1,715.0
1,714.0
Groundwater Elevation (feet above MSL)
12/6/1999
9/1/2002
5/28/2005
2/22/2008
11/18/2010
8/14/2013
Date

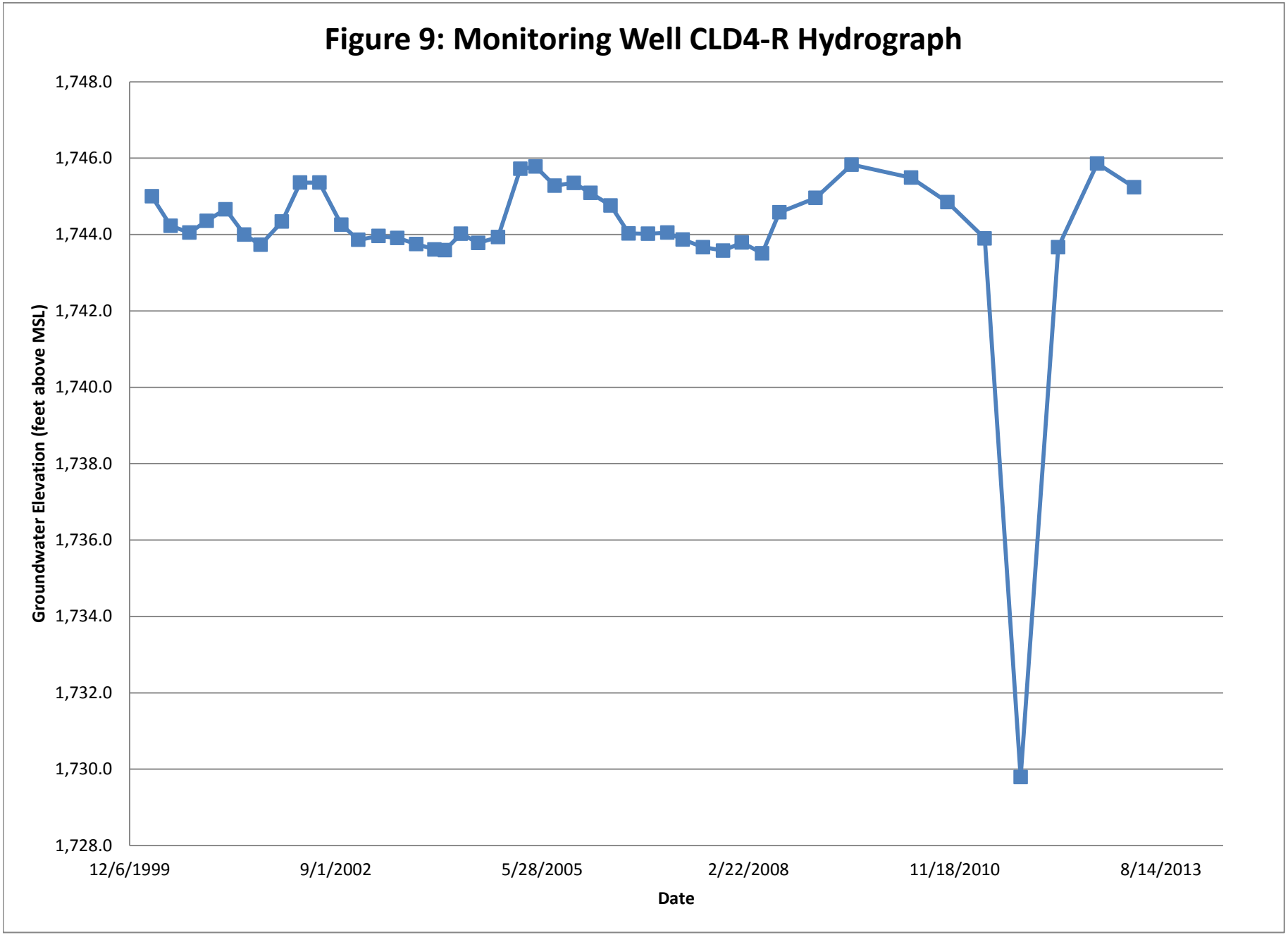


Figure 9: Monitoring Well CLD4-R Hydrograph
1,748.0
1,746.0
1,744.0
1,742.0
1,740.0
1,738.0
1,736.0
1,734.0
1,732.0
1,730.0
1,728.0
Groundwater Elevation (feet above MSL)
12/6/1999
9/1/2002
5/28/2005
2/22/2008
11/18/2010
8/14/2013
Date

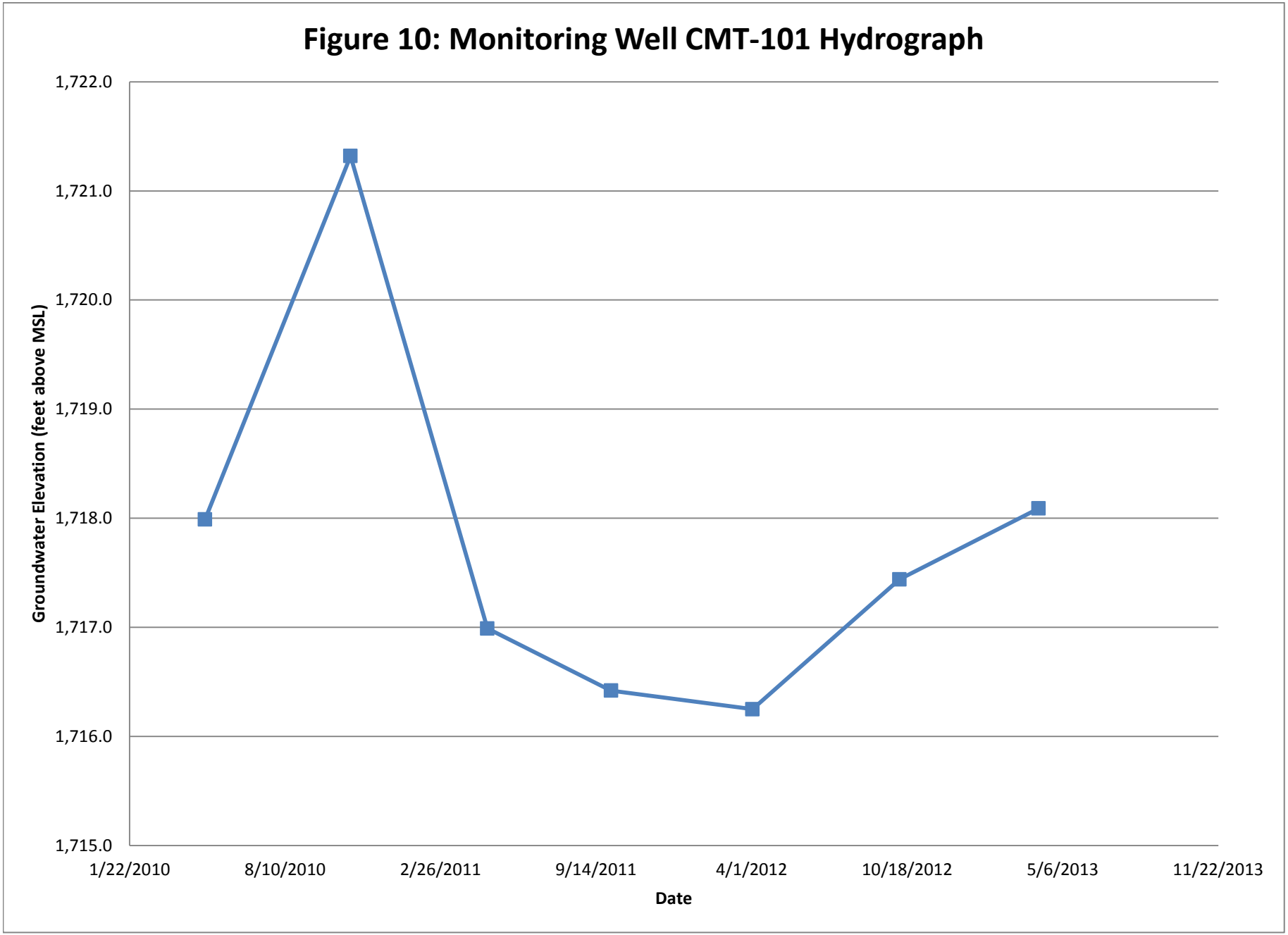


Figure 10: Monitoring Well CMT-101 Hydrograph
1,722.0
1,721.0
1,720.0
1,719.0
1,718.0
1,717.0
1,716.0
1,715.0
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

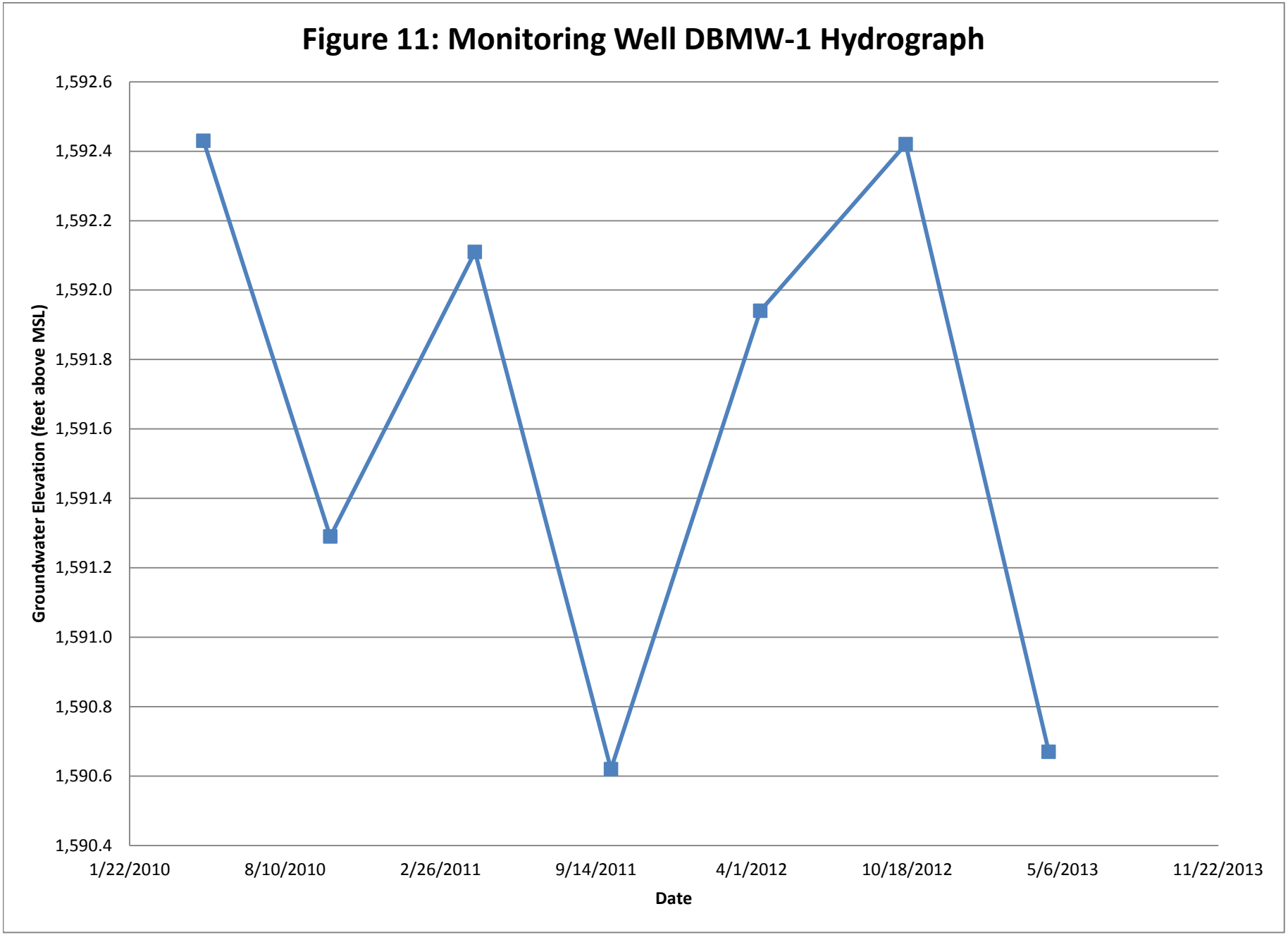


Figure 11: Monitoring Well DBMW-1 Hydrograph
Groundwater Elevation (feet above MSL)
1,592.6
1,592.4
1,592.2
1,592.0
1,591.8
1,591.6
1,591.4
1,591.2
1,591.0
1,590.8
1,590.6
1,590.4
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

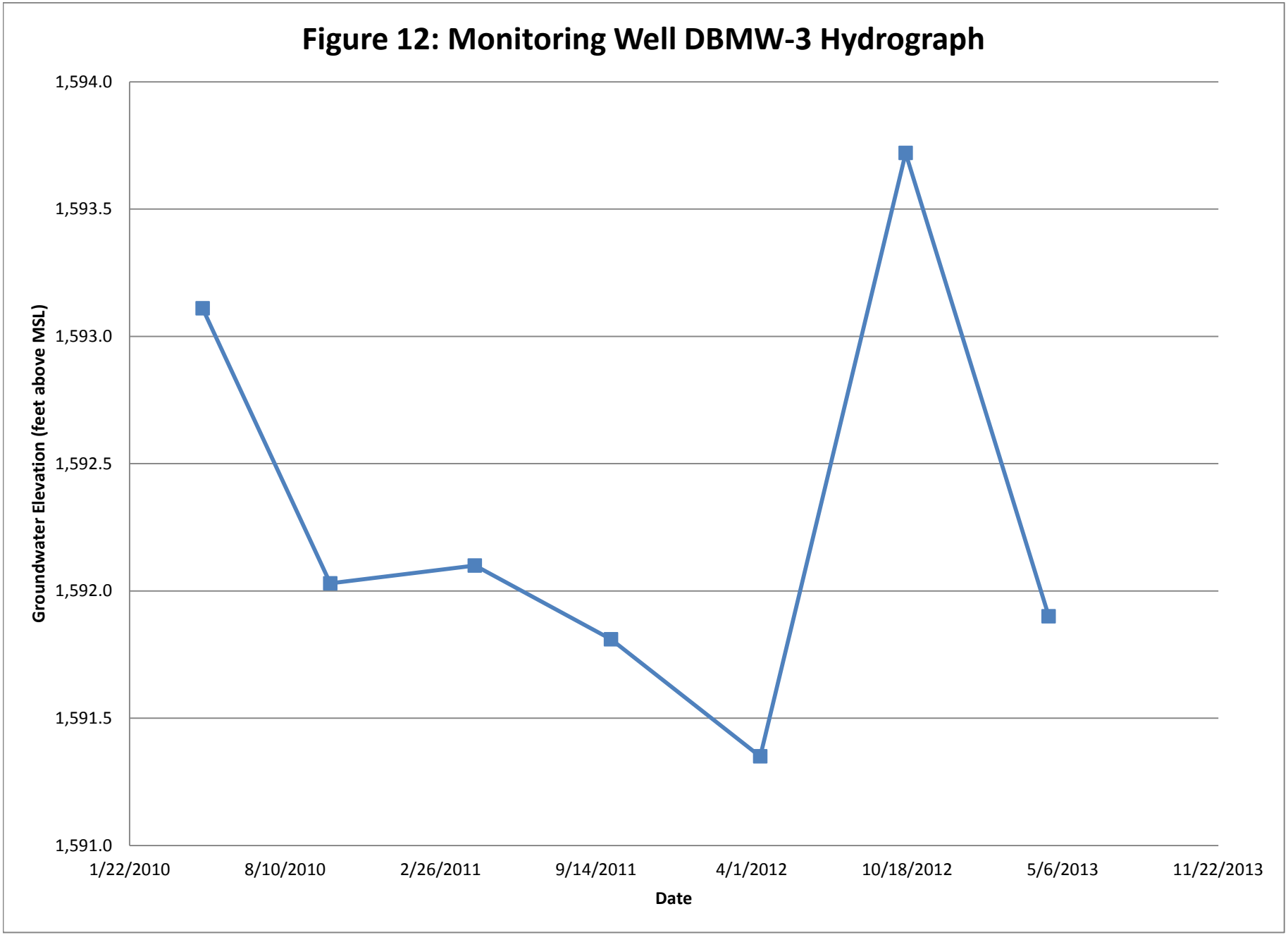


Figure 12: Monitoring Well DBMW-3 Hydrograph
Groundwater Elevation (feet above MSL)
1,594.0
1,593.5
1,593.0
1,592.5
1,592.0
1,591.5
1,591.0
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

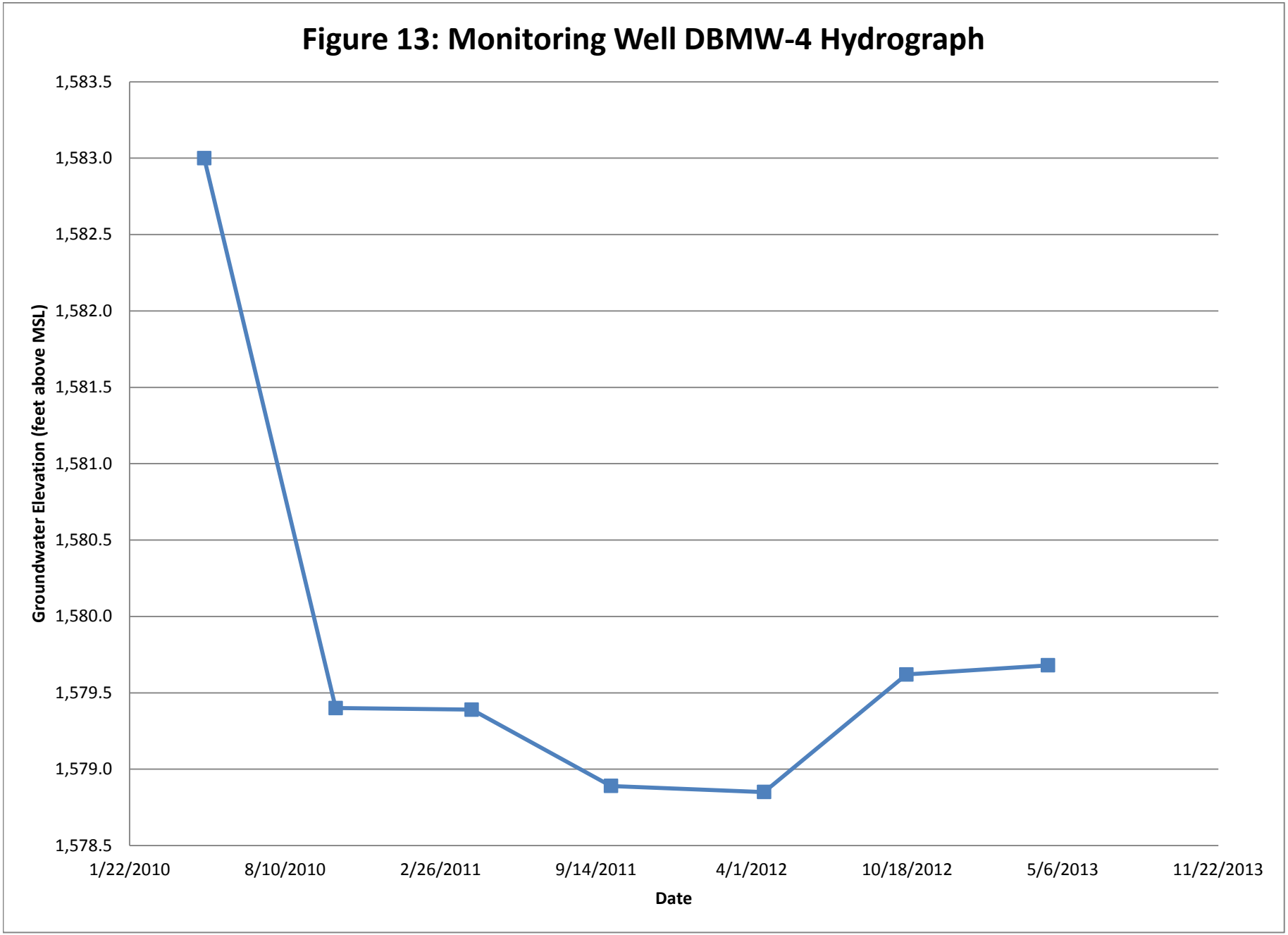


Figure 13: Monitoring Well DBMW-4 Hydrograph
Groundwater Elevation (feet above MSL)
1,583.5
1,583.0
1,582.5
1,582.0
1,581.5
1,581.0
1,580.5
1,580.0
1,579.5
1,579.0
1,578.5
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

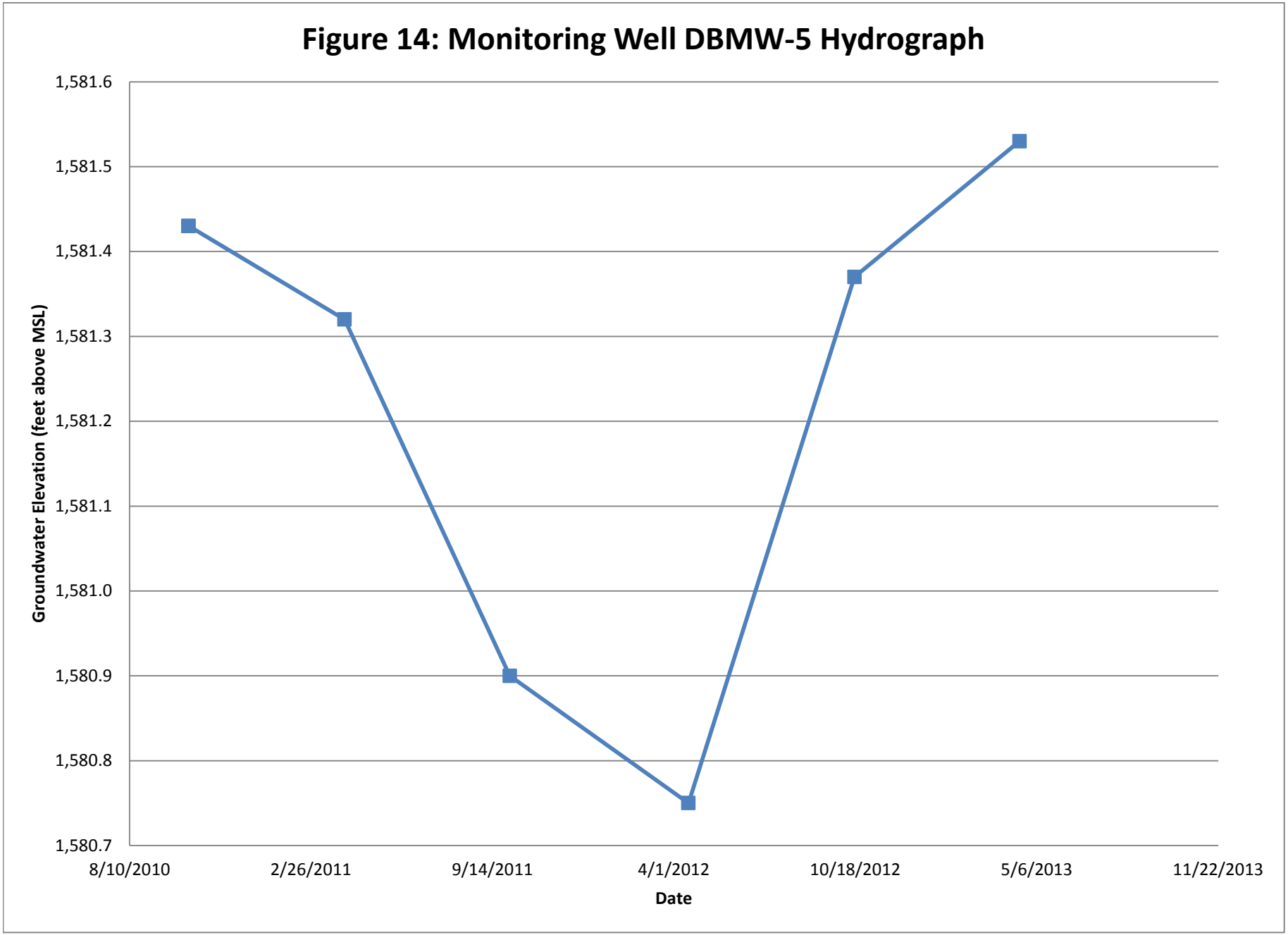


Figure 14: Monitoring Well DBMW-5 Hydrograph
Groundwater Elevation (feet above MSL)
1,581.6
1,581.5
1,581.4
1,581.3
1,581.2
1,581.1
1,581.0
1,580.9
1,580.8
1,580.7
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

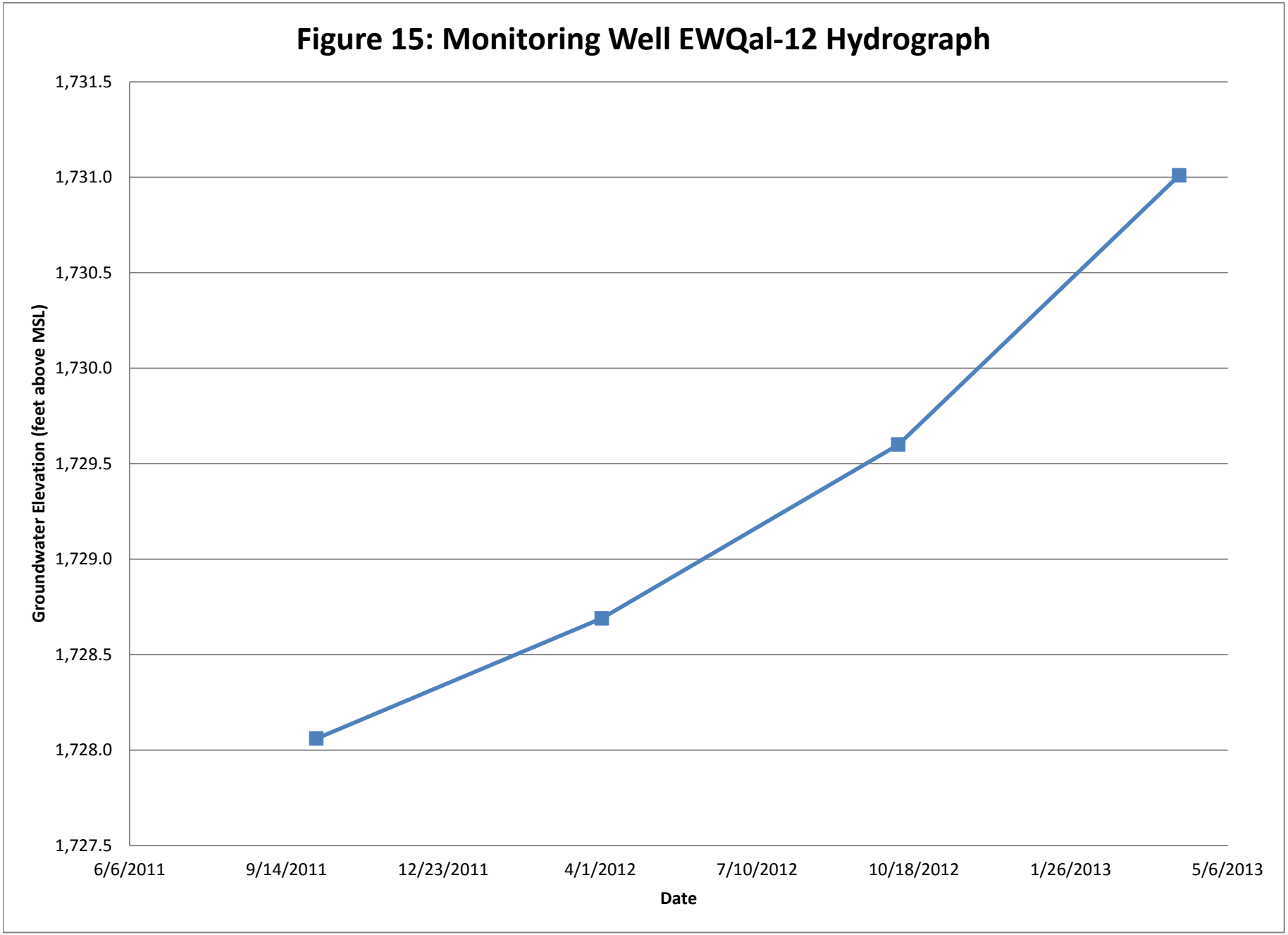


Figure 15: Monitoring Well EWQal-12 Hydrograph
1,731.5
1,731.0
1,730.5
1,730.0
1,729.5
1,729.0
1,728.5
1,728.0
1,727.5
Groundwater Elevation (feet above MSL)
6/6/2011
9/14/2011
12/23/2011
4/1/2012
7/10/2012
10/18/2012
1/26/2013
5/6/2013
Date

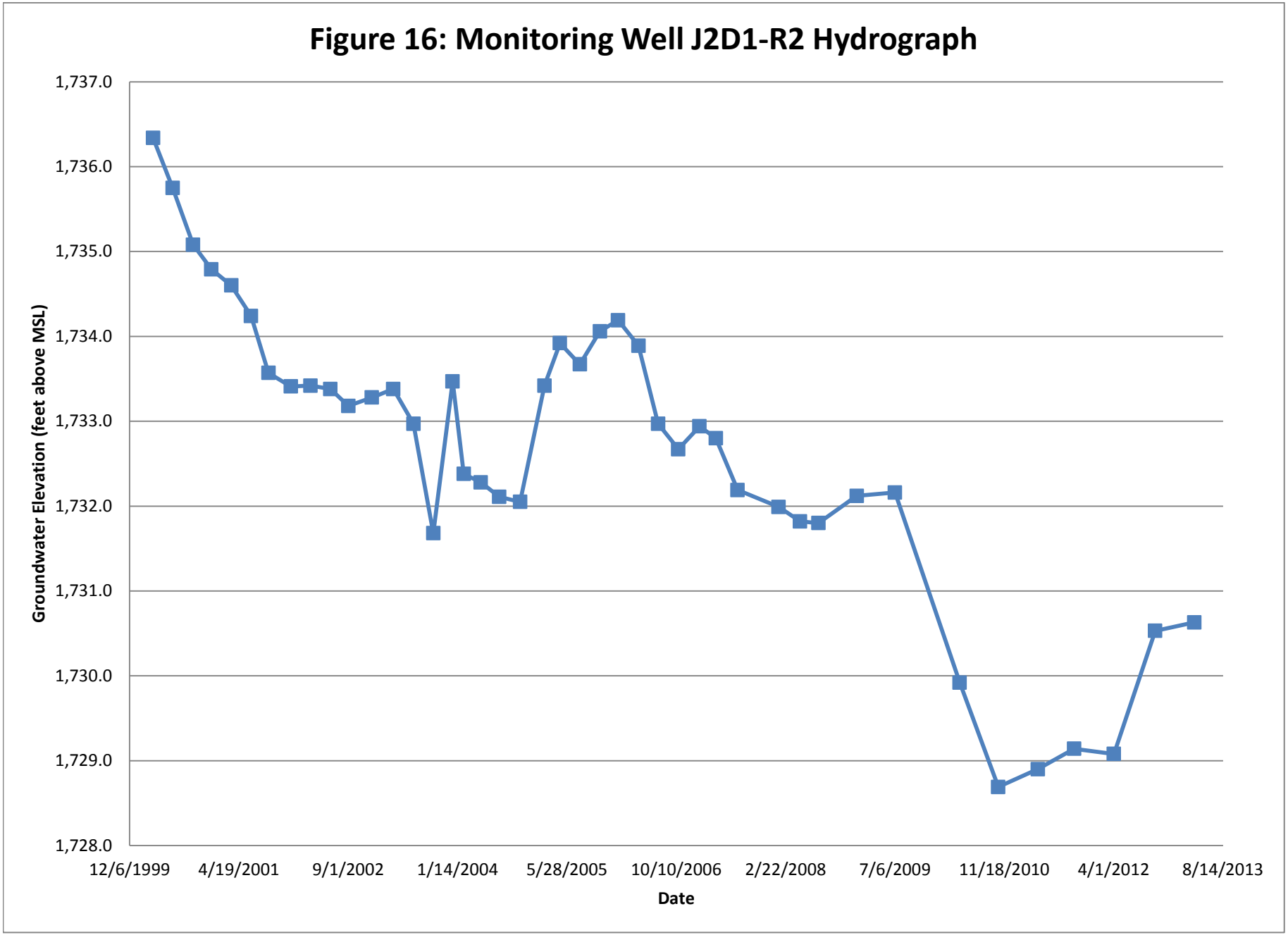


Figure 16: Monitoring Well J2D1-R2 Hydrograph
Groundwater Elevation (feet above MSL)
1,737.0
1,736.0
1,735.0
1,734.0
1,733.0
1,732.0
1,731.0
1,730.0
1,729.0
1,728.0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

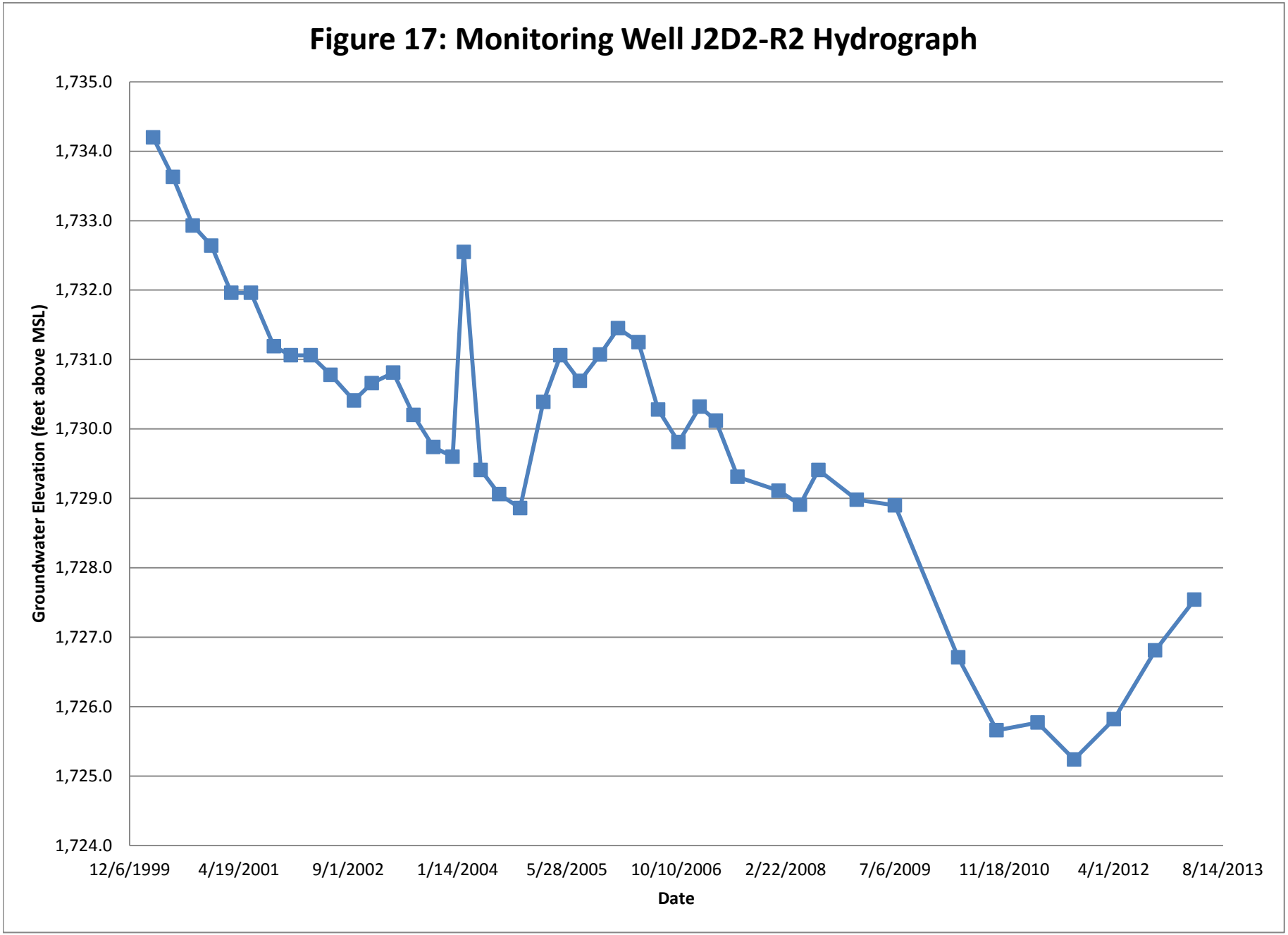


Figure 17: Monitoring Well J2D2-R2 Hydrograph
Groundwater Elevation (feet above MSL)
1,735.0
1,734.0
1,733.0
1,732.0
1,731.0
1,730.0
1,729.0
1,728.0
1,727.0
1,726.0
1,725.0
1,724.0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

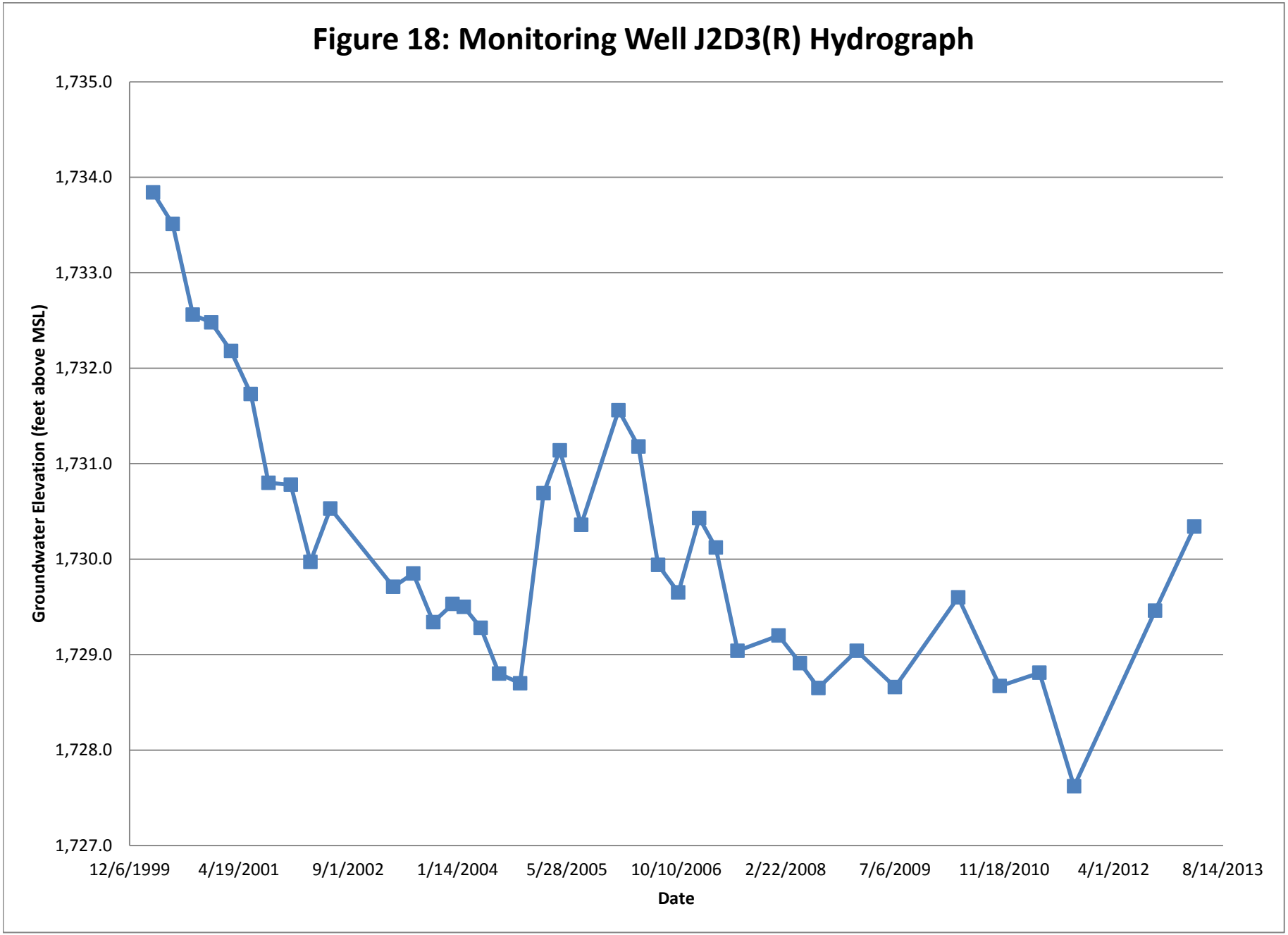


Figure 18: Monitoring Well J2D3(R) Hydrograph
Groundwater Elevation (feet above MSL)
1,735.0
1,734.0
1,733.0
1,732.0
1,731.0
1,730.0
1,729.0
1,728.0
1,727.0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

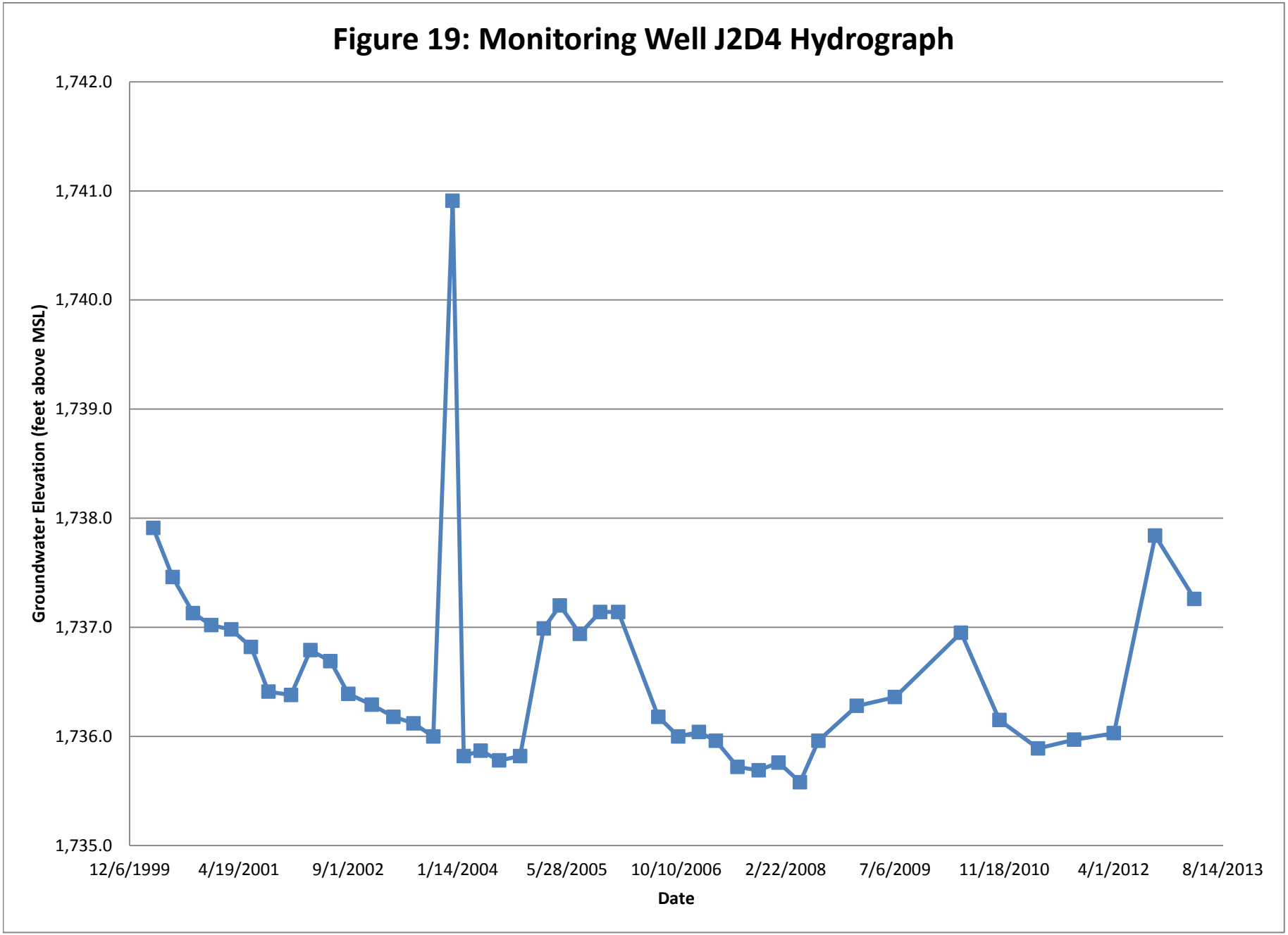


Figure 19: Monitoring Well J2D4 Hydrograph
Groundwater Elevation (feet above MSL)
1,742.0
1,741.0
1,740.0
1,739.0
1,738.0
1,737.0
1,736.0
1,735.0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

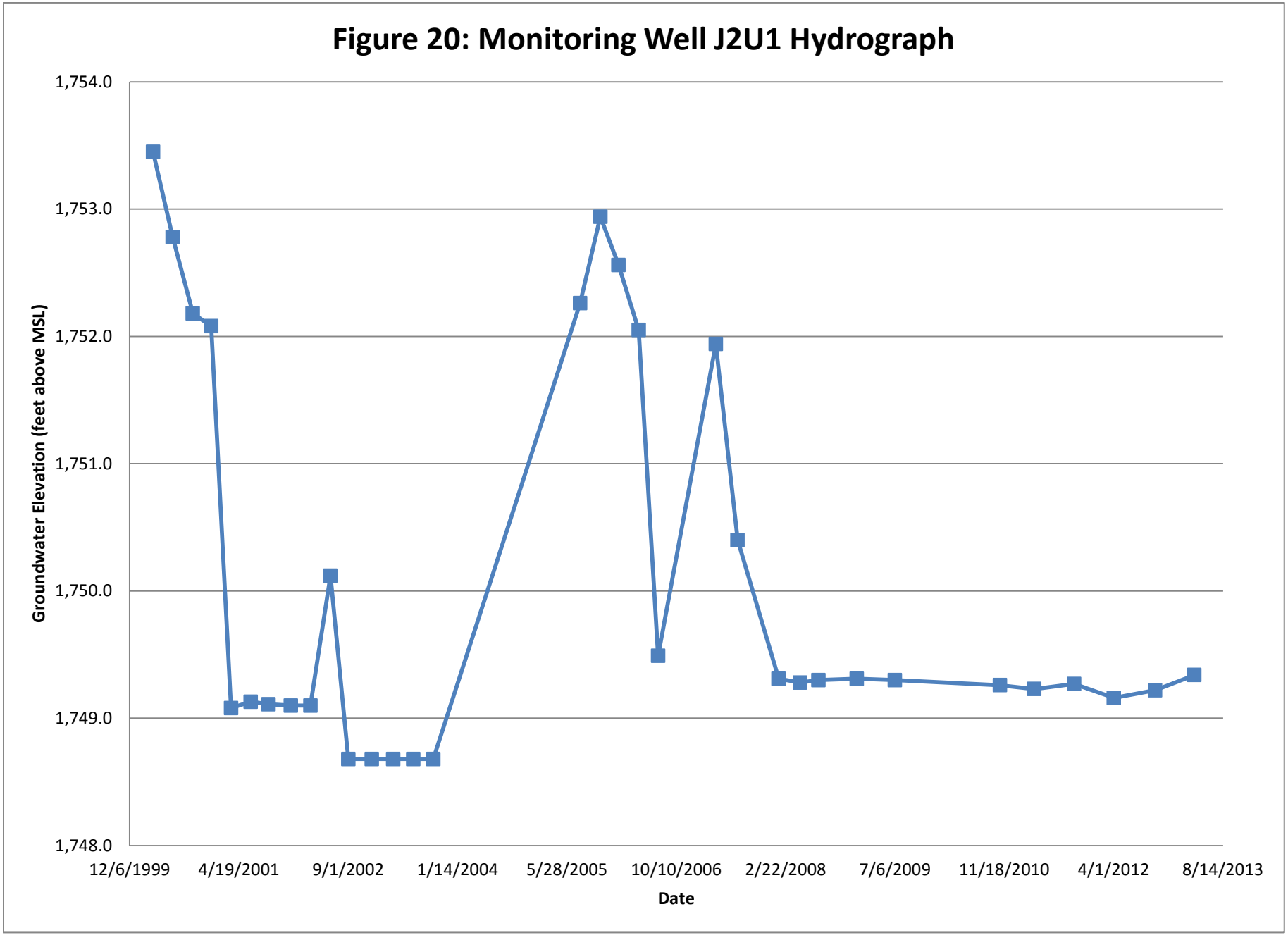


Figure 20: Monitoring Well J2U1 Hydrograph
Groundwater Elevation (feet above MSL)
1,754.0
1,753.0
1,752.0
1,751.0
1,750.0
1,749.0
1,748.0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

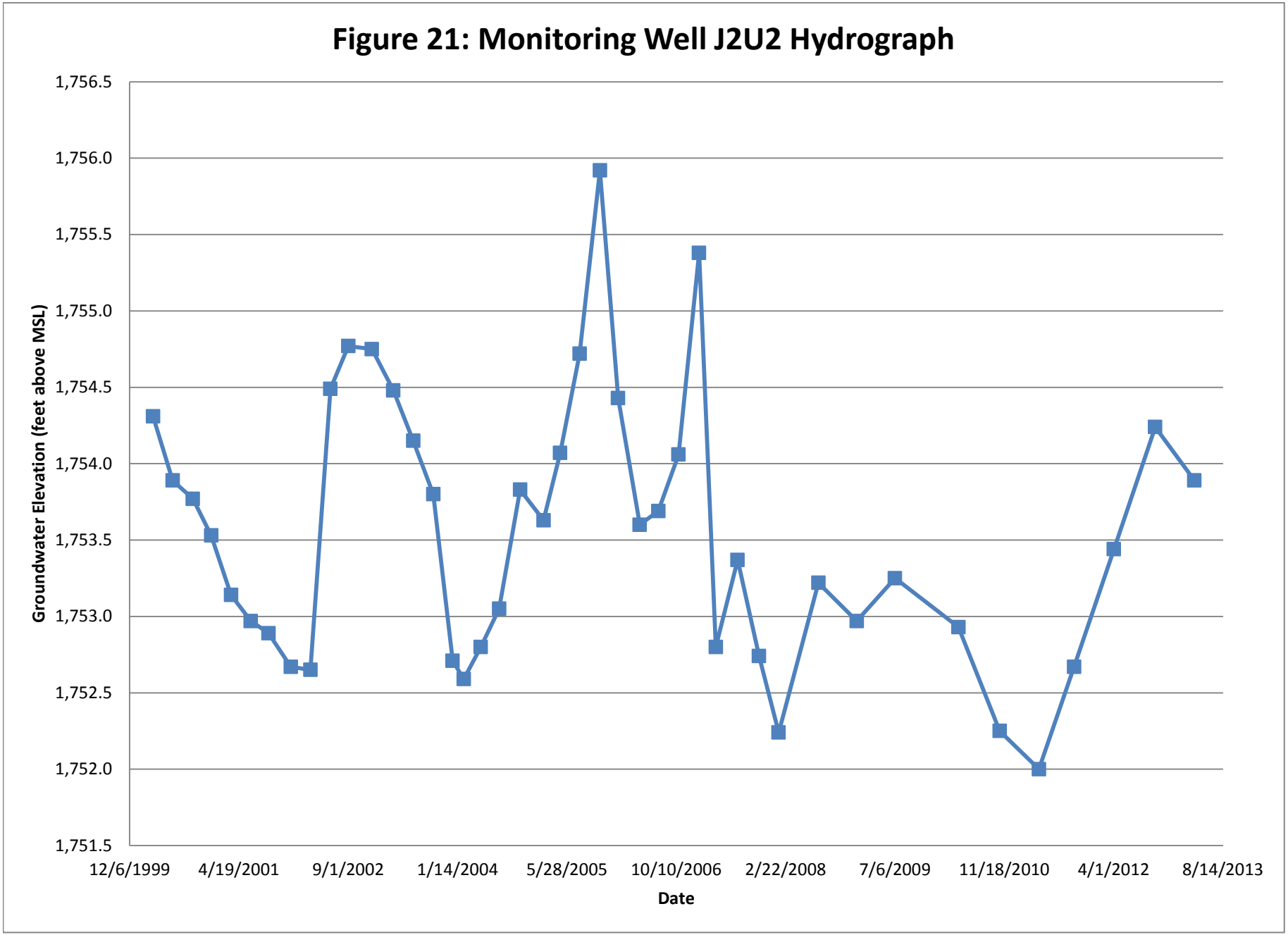


Figure 21: Monitoring Well J2U2 Hydrograph
Groundwater Elevation (feet above MSL)
1,756.5
1,756.0
1,755.5
1,755.0
1,754.5
1,754.0
1,753.5
1,753.0
1,752.5
1,752.0
1,751.5
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

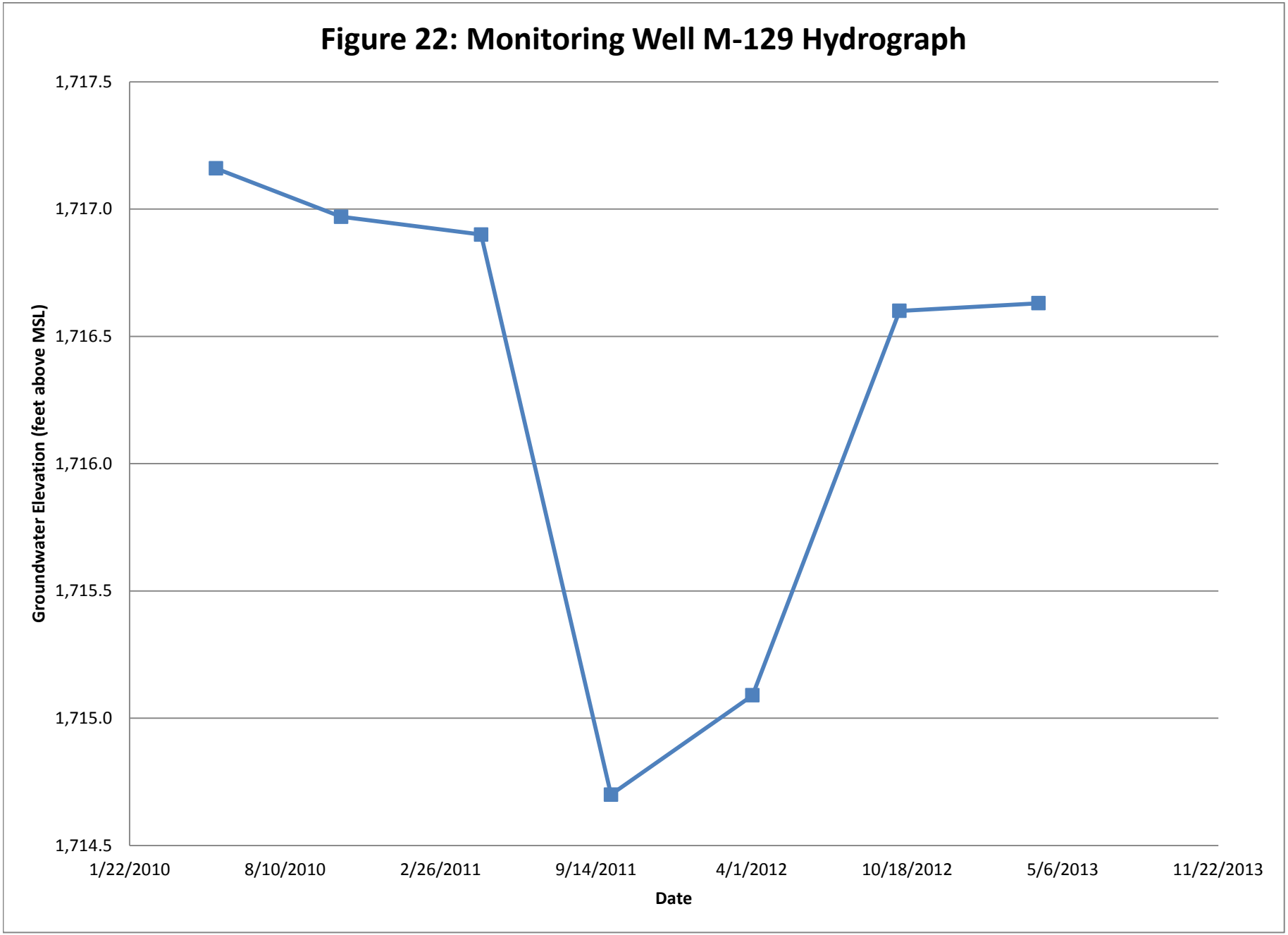


Figure 22: Monitoring Well M-129 Hydrograph
1,717.5
1,717.0
1,716.5
1,716.0
1,715.5
1,715.0
1,714.5
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

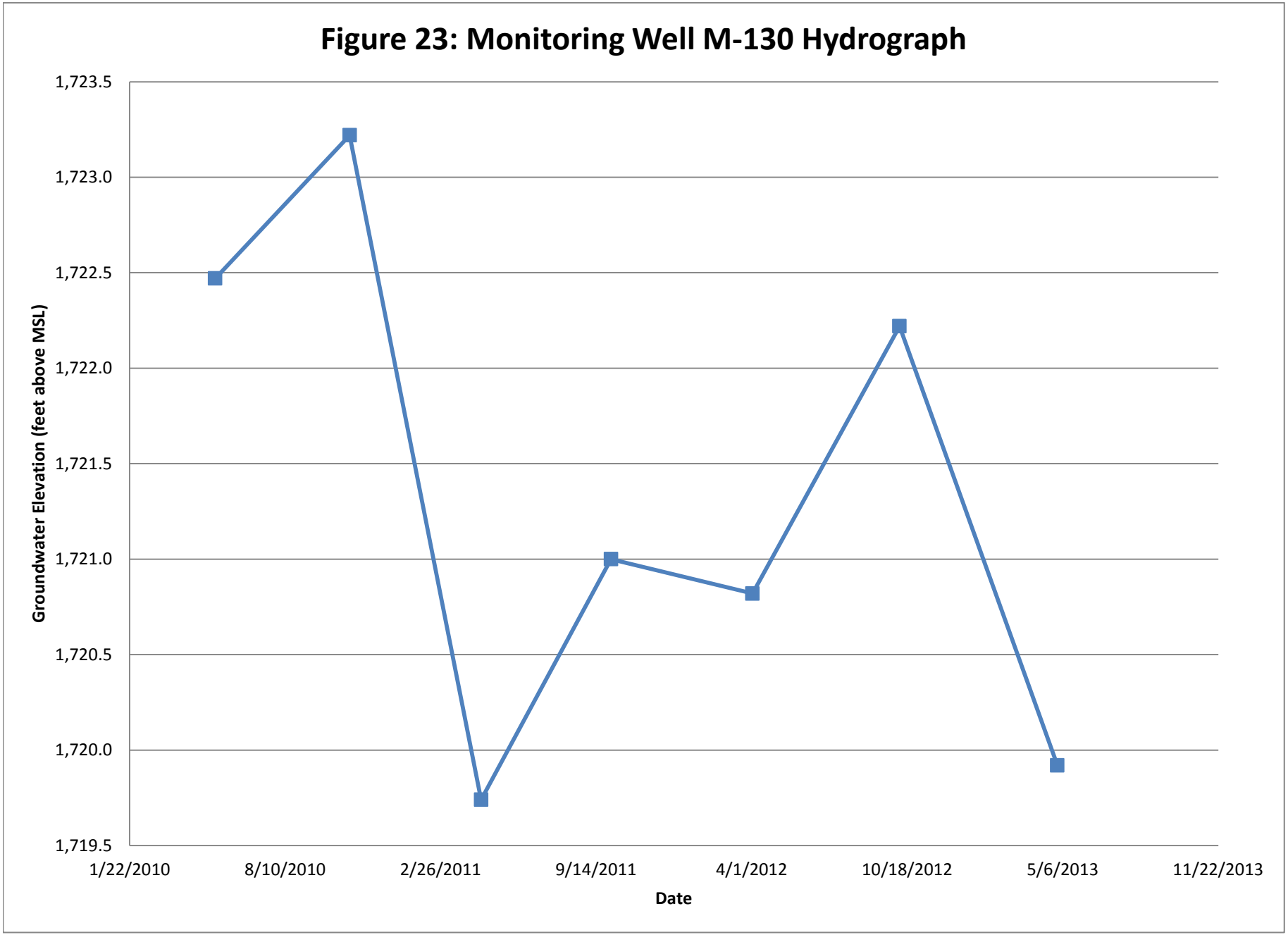


Figure 23: Monitoring Well M-130 Hydrograph
1,723.5
1,723.0
1,722.5
1,722.0
1,721.5
1,721.0
1,720.5
1,720.0
1,719.5
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

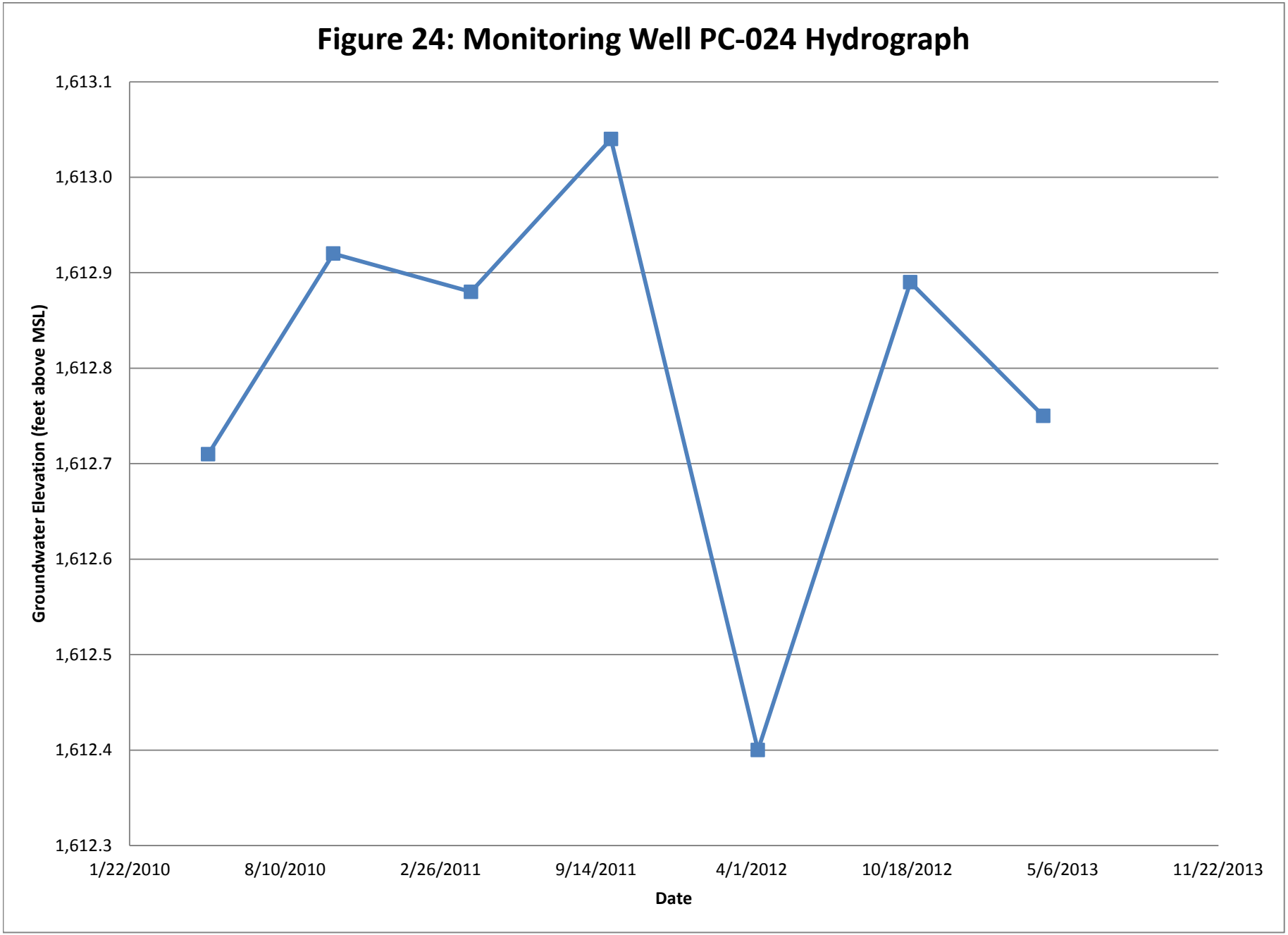


Figure 24: Monitoring Well PC-024 Hydrograph
1,613.1
1,613.0
1,612.9
1,612.8
1,612.7
1,612.6
1,612.5
1,612.4
1,612.3
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

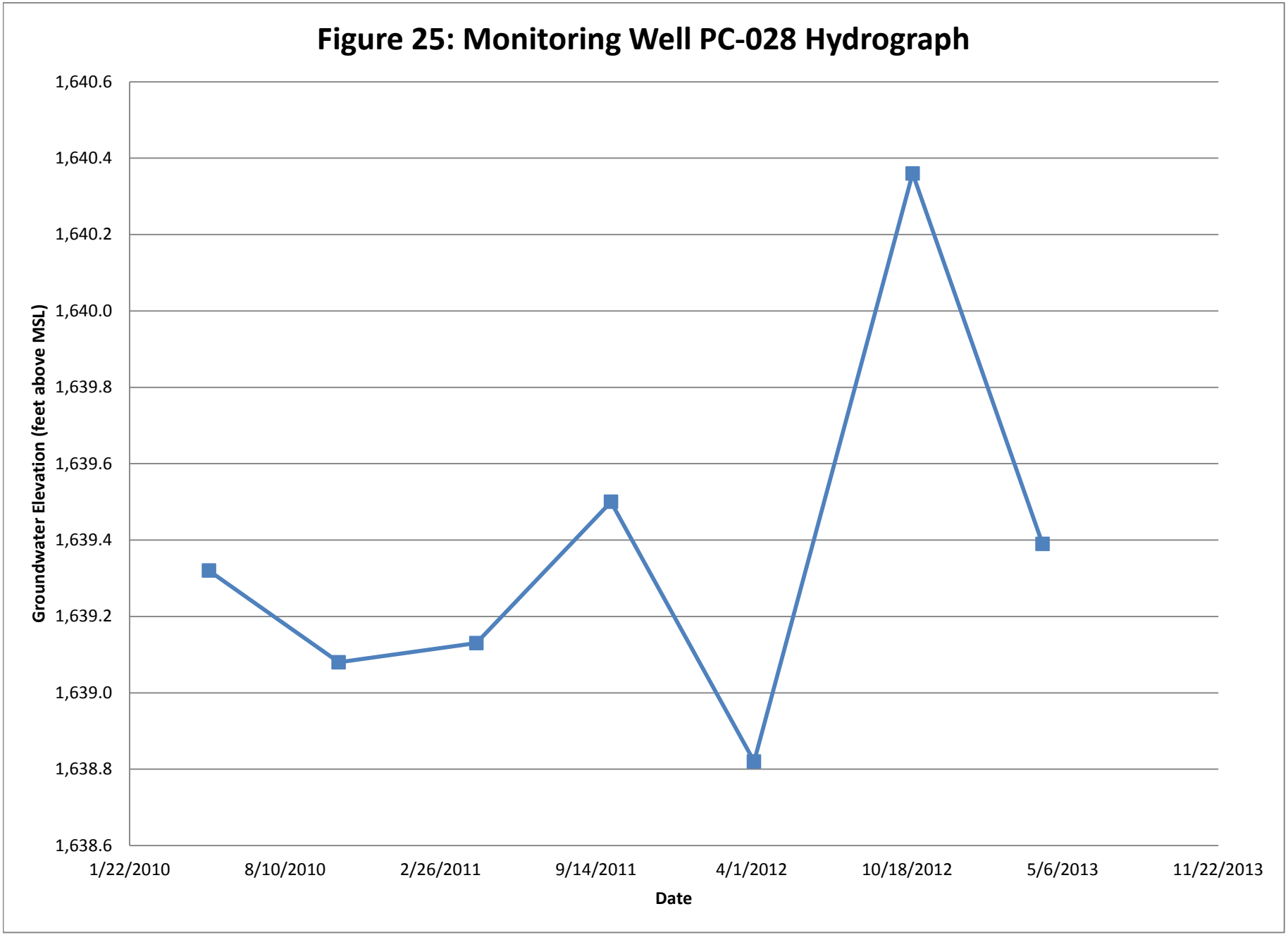


Figure 25: Monitoring Well PC-028 Hydrograph
Groundwater Elevation (feet above MSL)
1,640.6
1,640.4
1,640.2
1,640.0
1,639.8
1,639.6
1,639.4
1,639.2
1,639.0
1,638.8
1,638.6
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

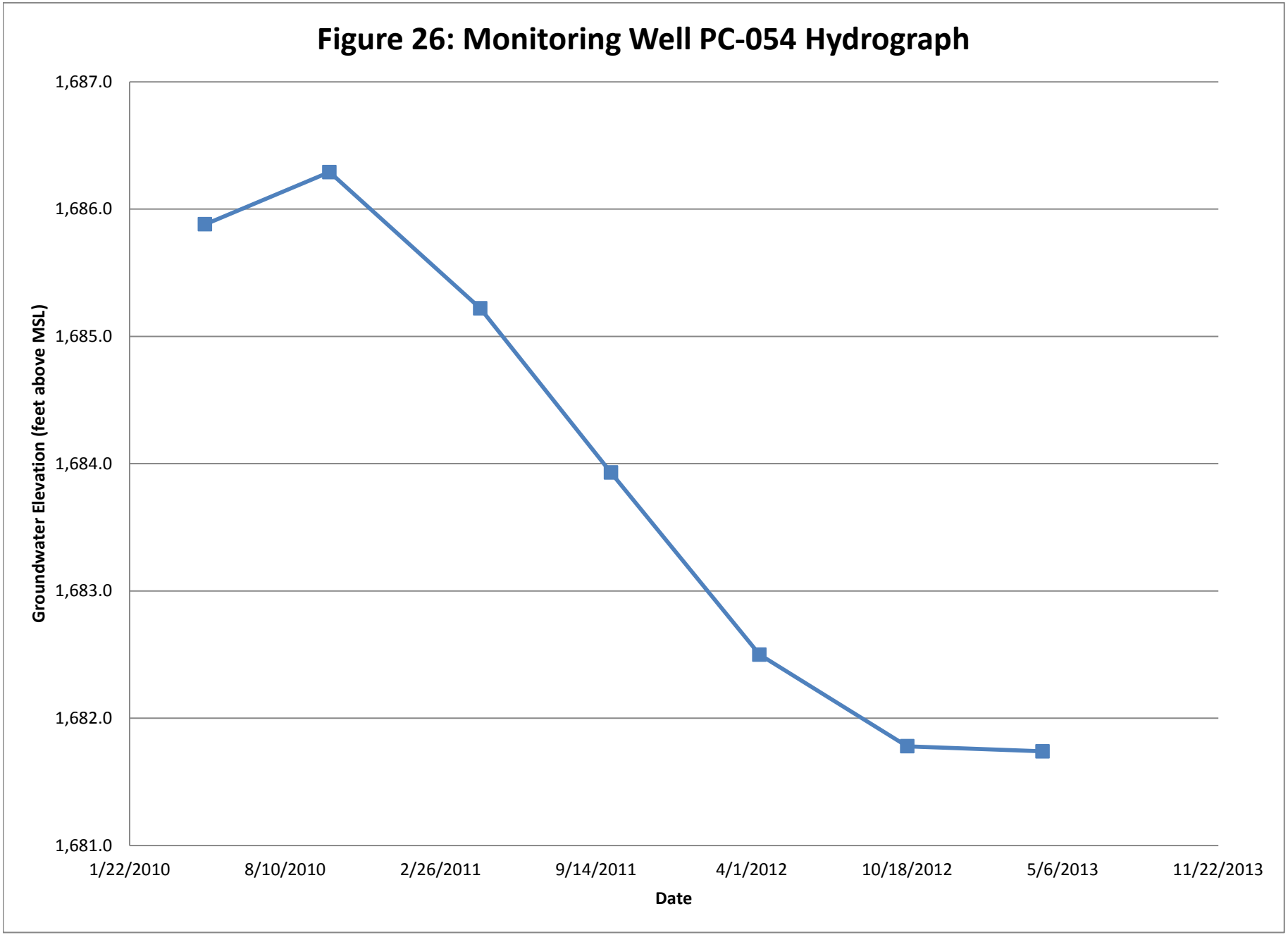


Figure 26: Monitoring Well PC-054 Hydrograph
1,687.0
1,686.0
1,685.0
1,684.0
1,683.0
1,682.0
1,681.0
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

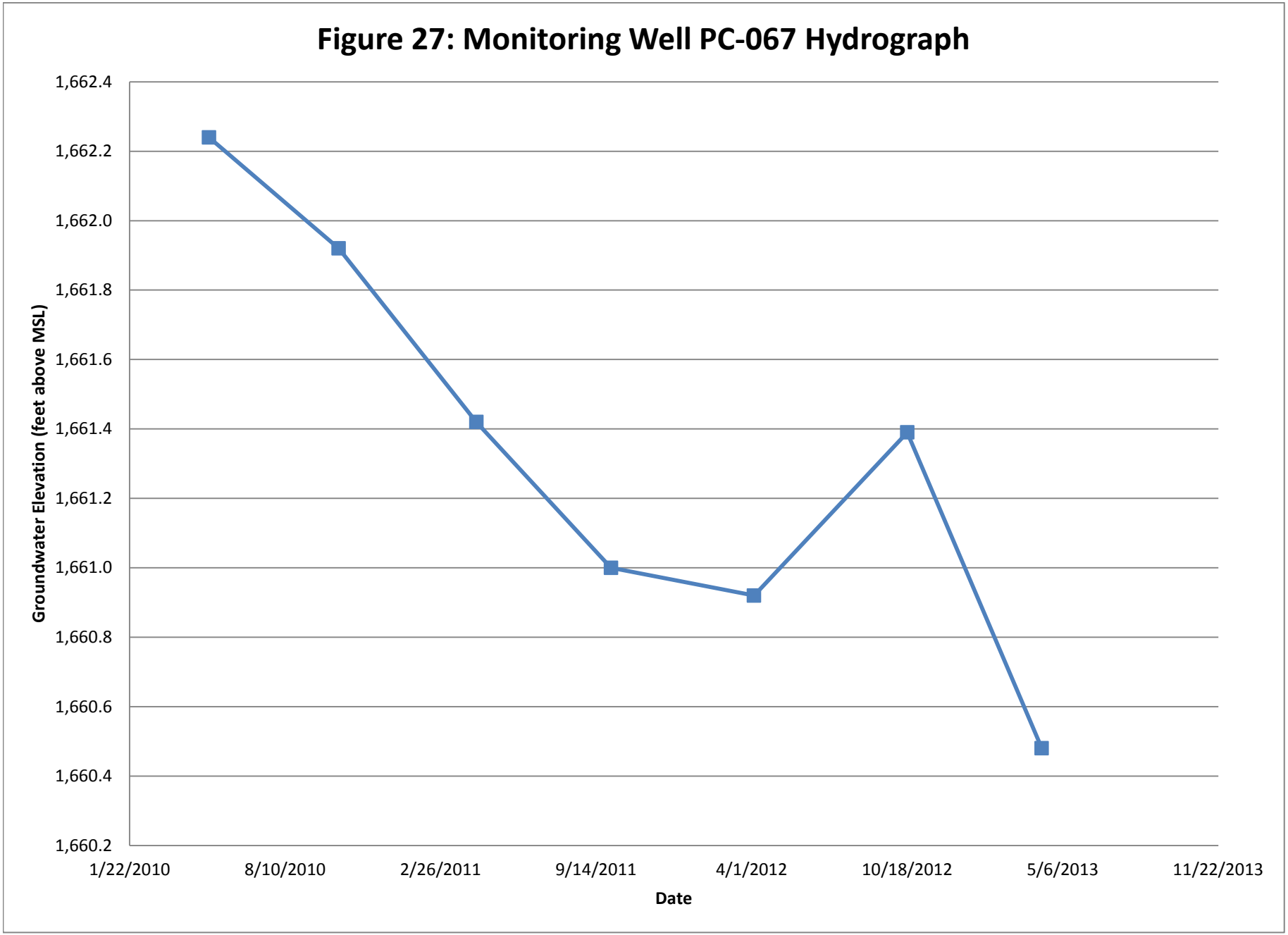


Figure 27: Monitoring Well PC-067 Hydrograph
Groundwater Elevation (feet above MSL)
1,662.4
1,662.2
1,662.0
1,661.8
1,661.6
1,661.4
1,661.2
1,661.0
1,660.8
1,660.6
1,660.4
1,660.2
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

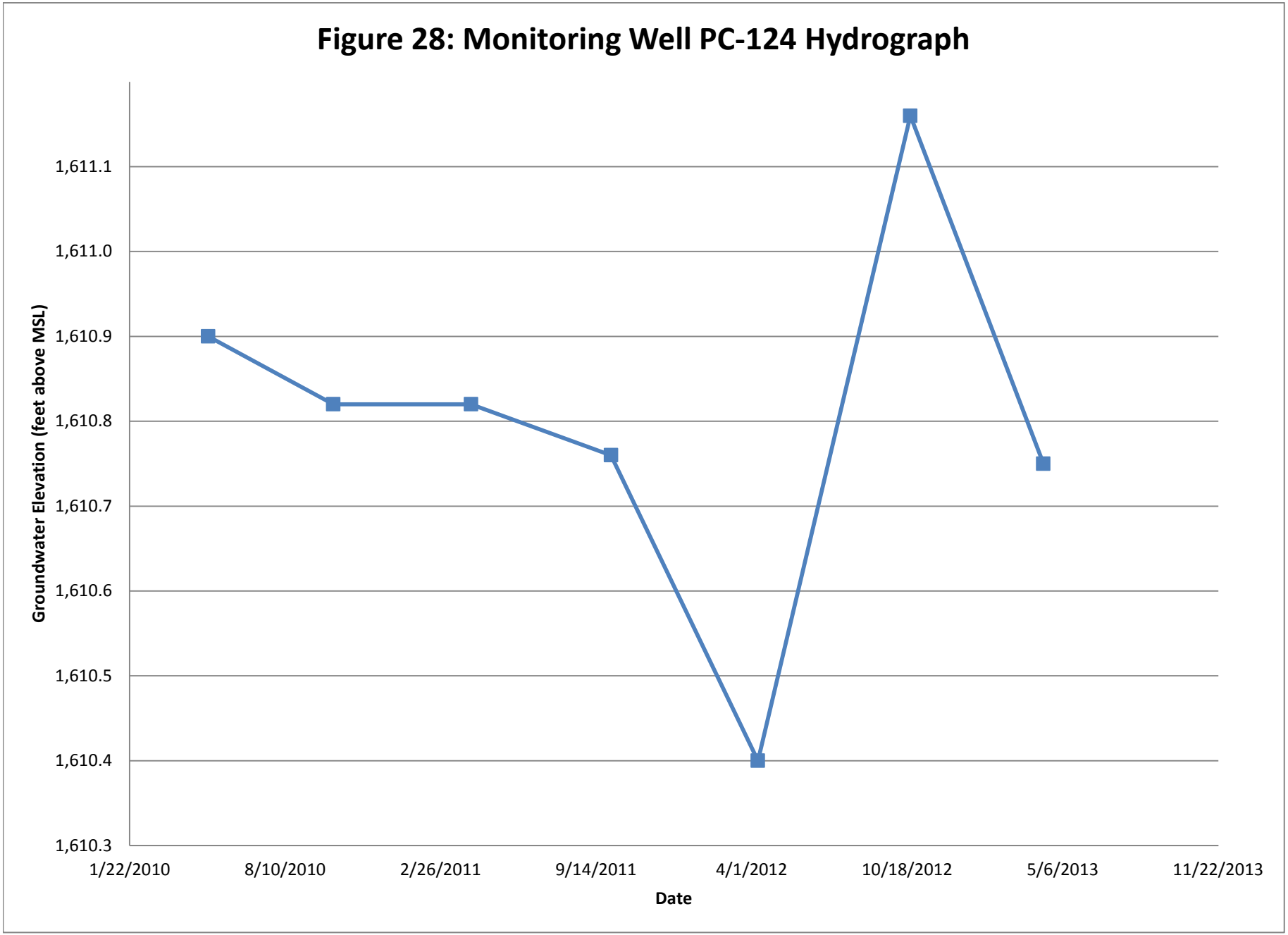


Figure 28: Monitoring Well PC-124 Hydrograph
Groundwater Elevation (feet above MSL)
1,611.1
1,611.0
1,610.9
1,610.8
1,610.7
1,610.6
1,610.5
1,610.4
1,610.3
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

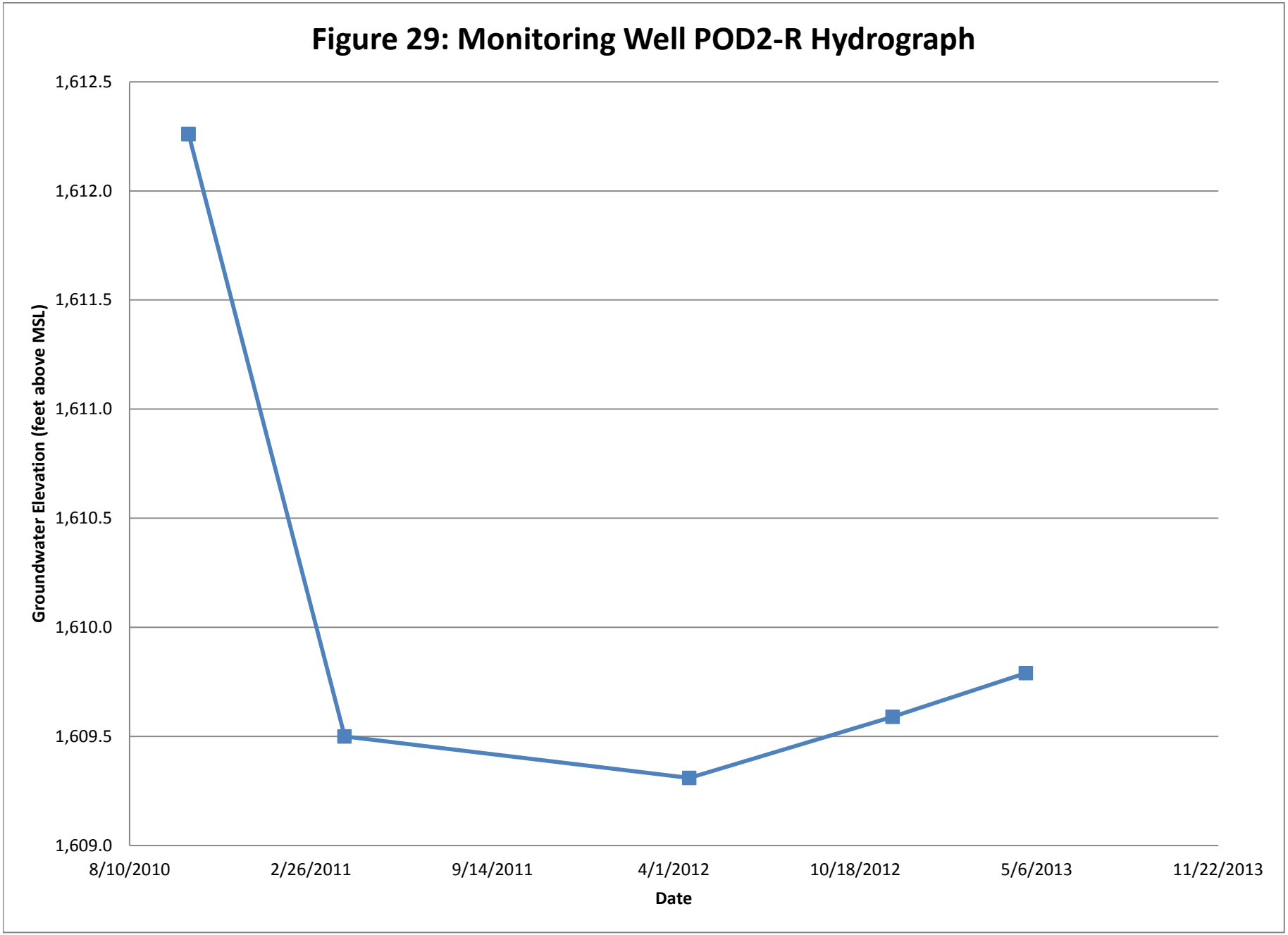


Figure 29: Monitoring Well POD2-R Hydrograph
Groundwater Elevation (feet above MSL)
1,612.5
1,612.0
1,611.5
1,611.0
1,610.5
1,610.0
1,609.5
1,609.0
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

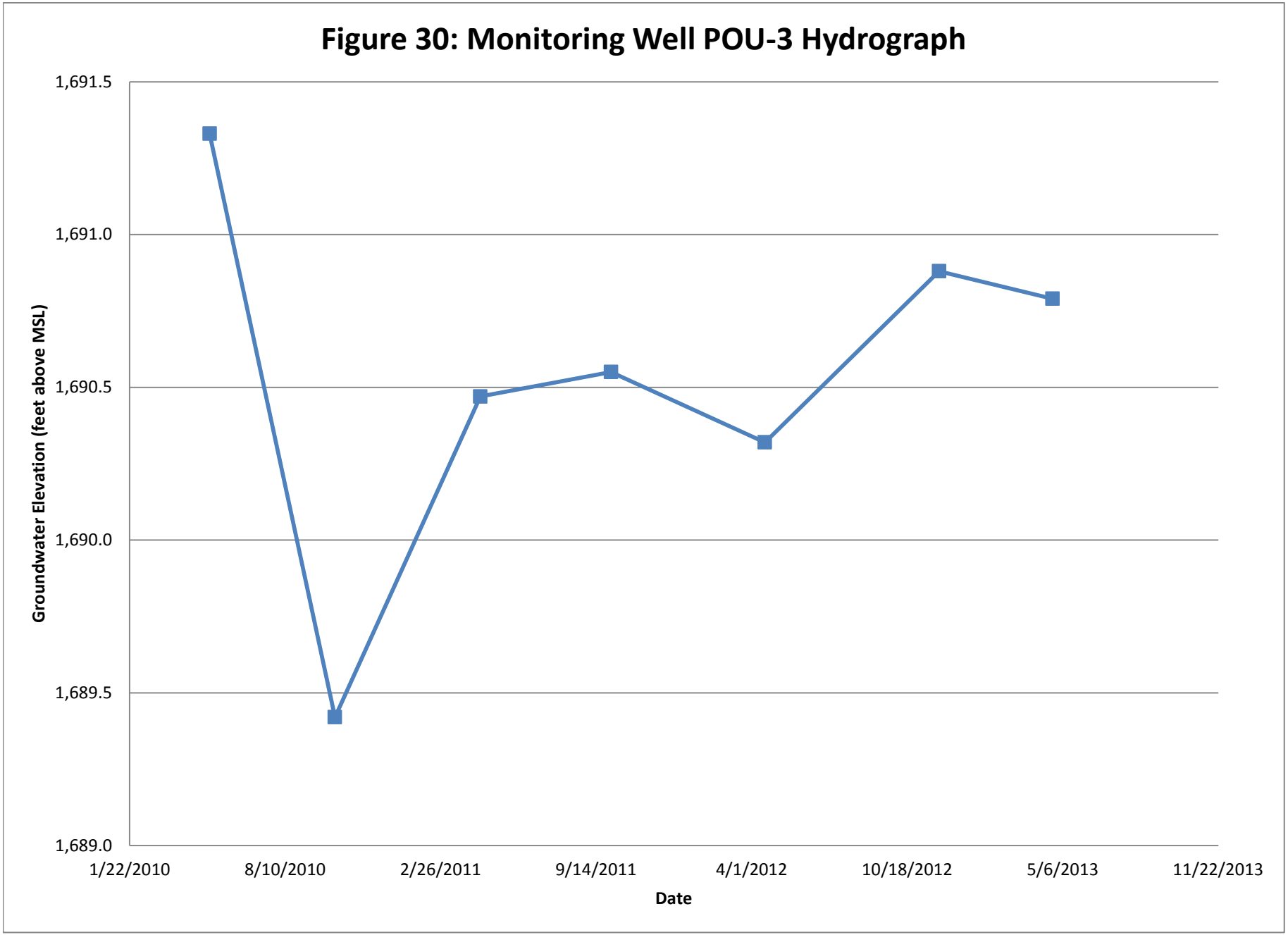


Figure 30: Monitoring Well POU-3 Hydrograph
1,691.5
1,691.0
1,690.5
1,690.0
1,689.5
1,689.0
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

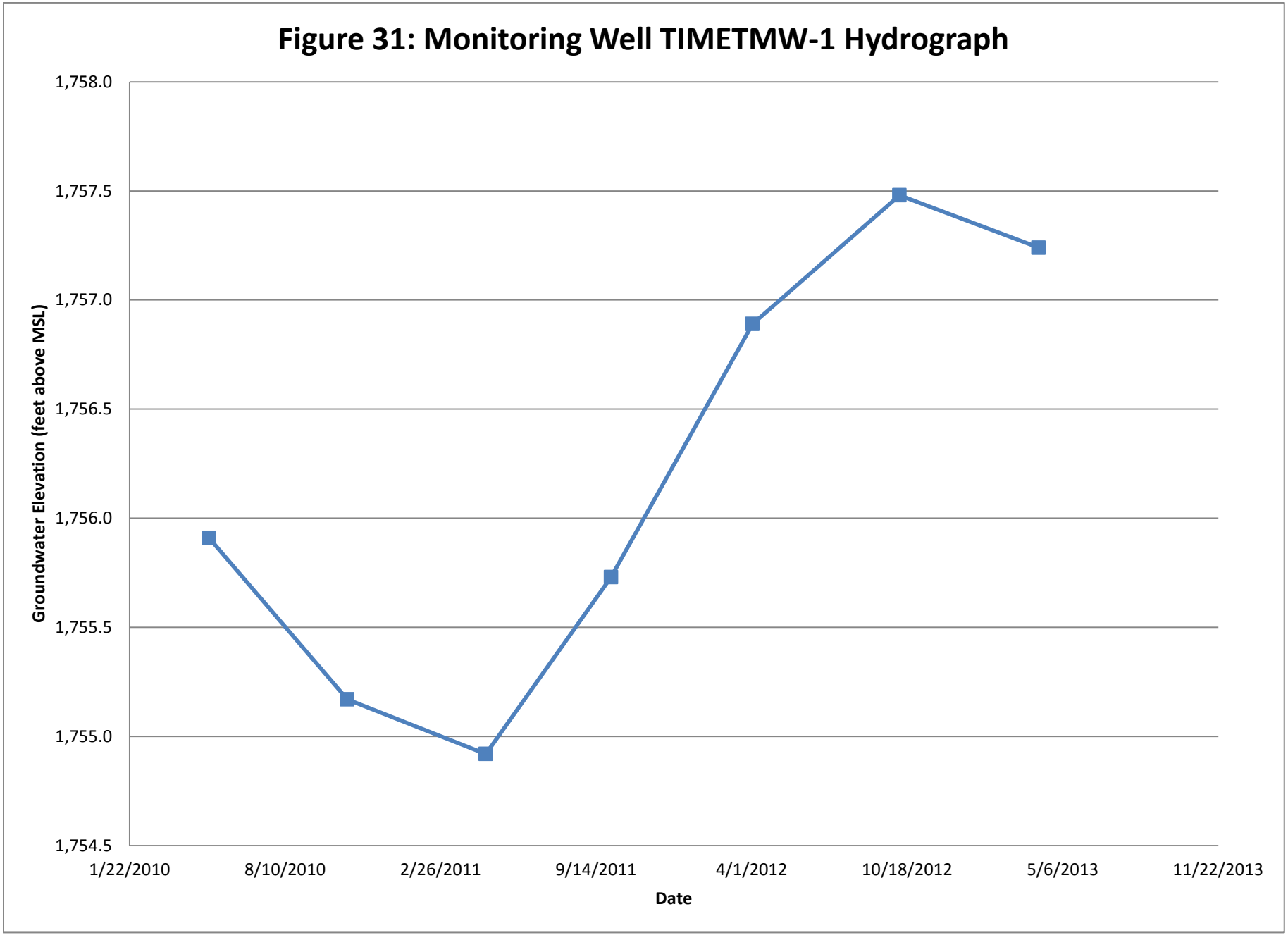


Figure 31: Monitoring Well TIMETMW-1 Hydrograph
1,758.0
1,757.5
1,757.0
1,756.5
1,756.0
1,755.5
1,755.0
1,754.5
Groundwater Elevation (feet above MSL)
1/22/2010
8/10/2010
2/26/2011
9/14/2011
4/1/2012
10/18/2012
5/6/2013
11/22/2013
Date

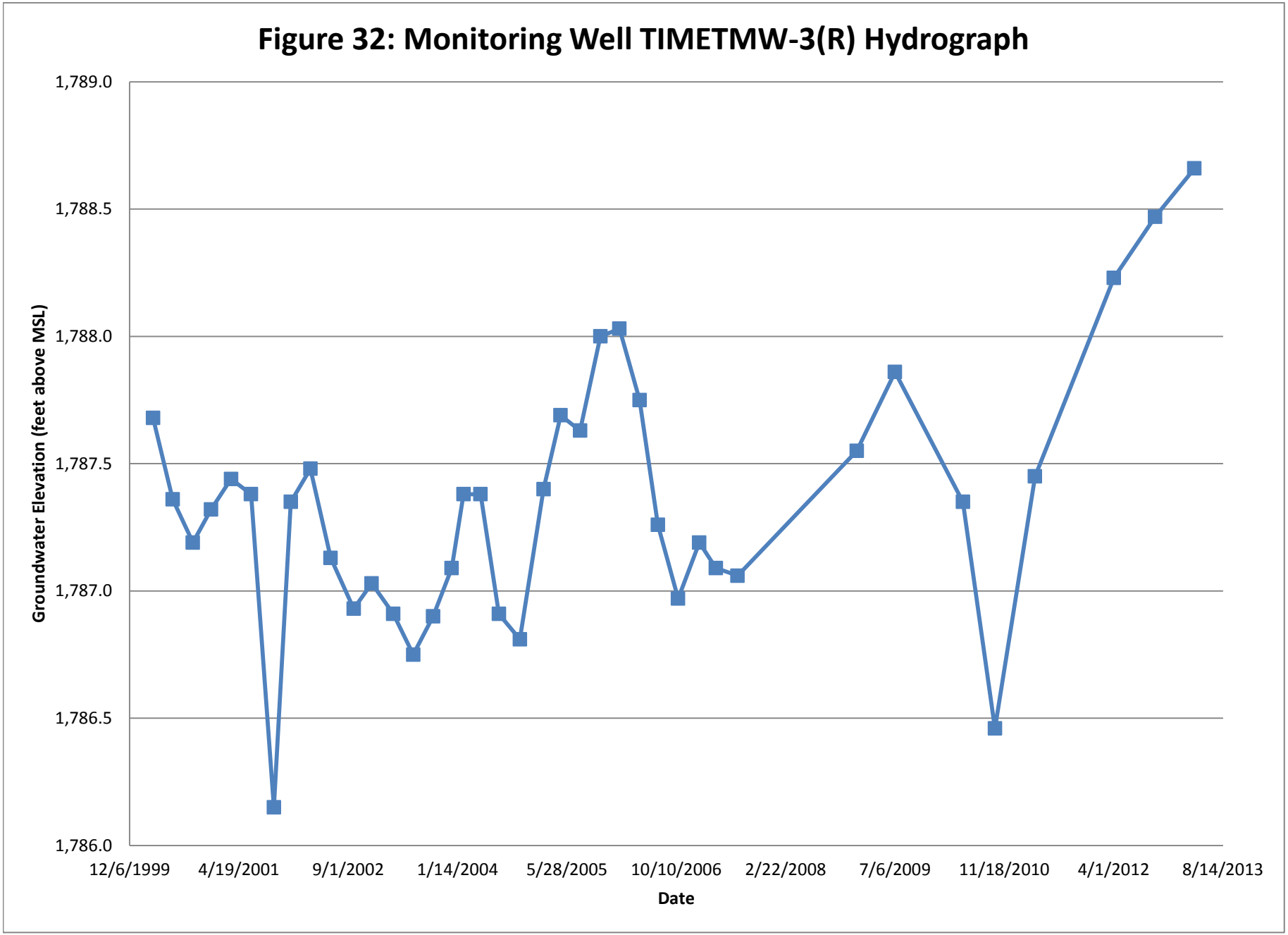


Figure 32: Monitoring Well TIMETMW-3(R) Hydrograph
Groundwater Elevation (feet above MSL)
1,789.0
1,788.5
1,788.0
1,787.5
1,787.0
1,786.5
1,786.0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

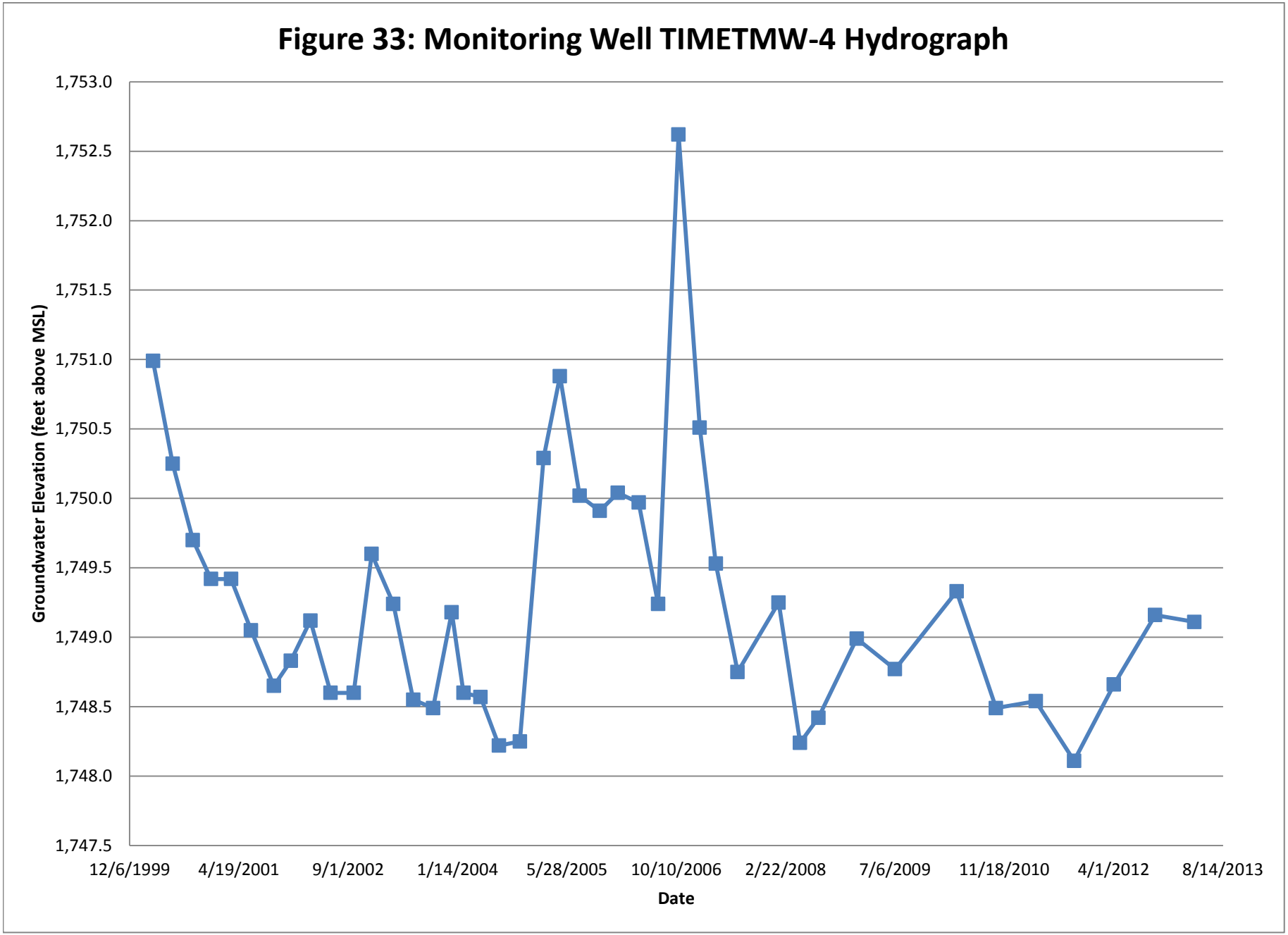


Figure 33: Monitoring Well TIMETMW-4 Hydrograph
Groundwater Elevation (feet above MSL)
1,753.0
1,752.5
1,752.0
1,751.5
1,751.0
1,750.5
1,750.0
1,749.5
1,749.0
1,748.5
1,748.0
1,747.5
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

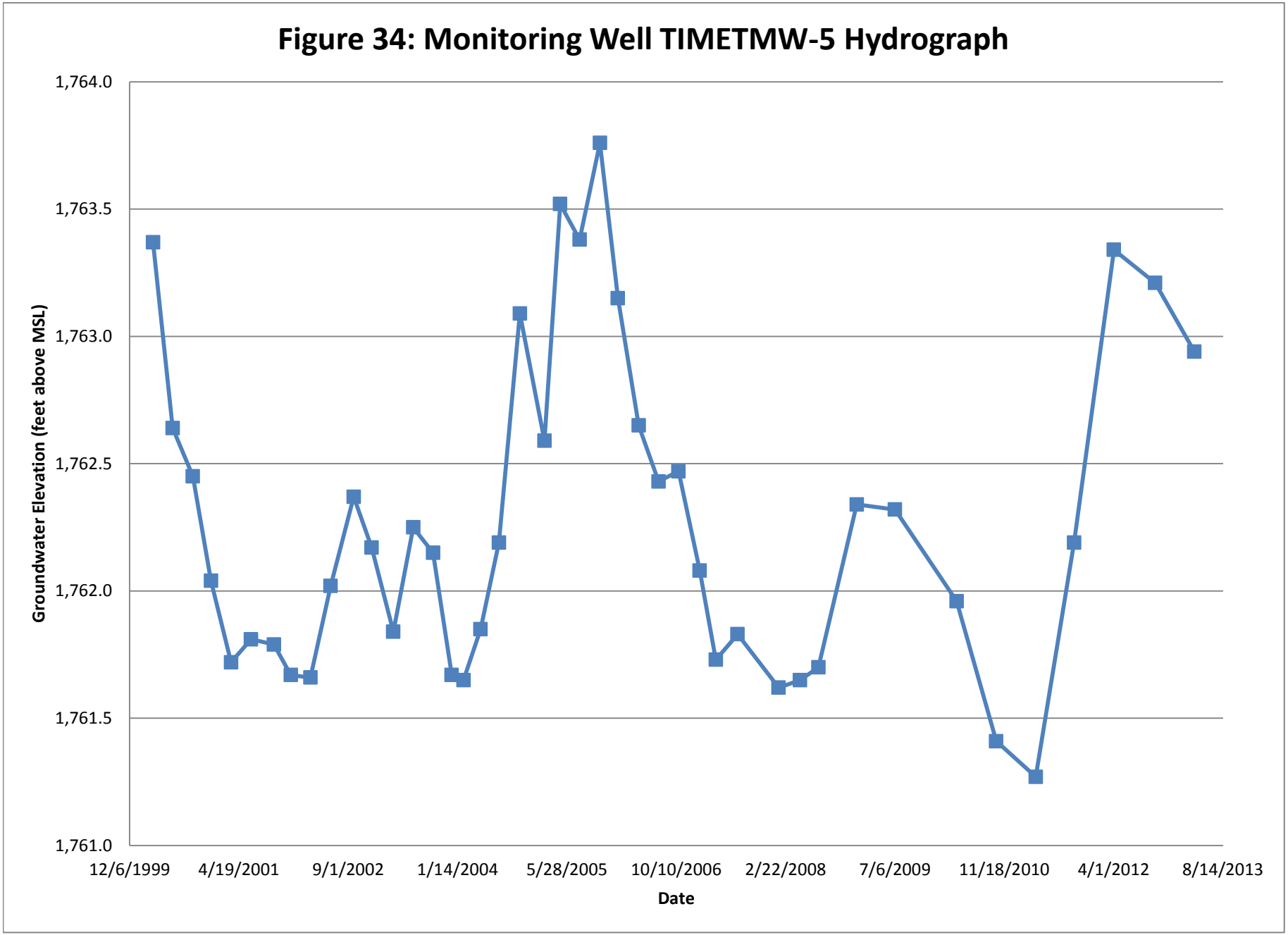


Figure 34: Monitoring Well TIMETMW-5 Hydrograph
1,764.0
1,763.5
1,763.0
1,762.5
1,762.0
1,761.5
1,761.0
Groundwater Elevation (feet above MSL)
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

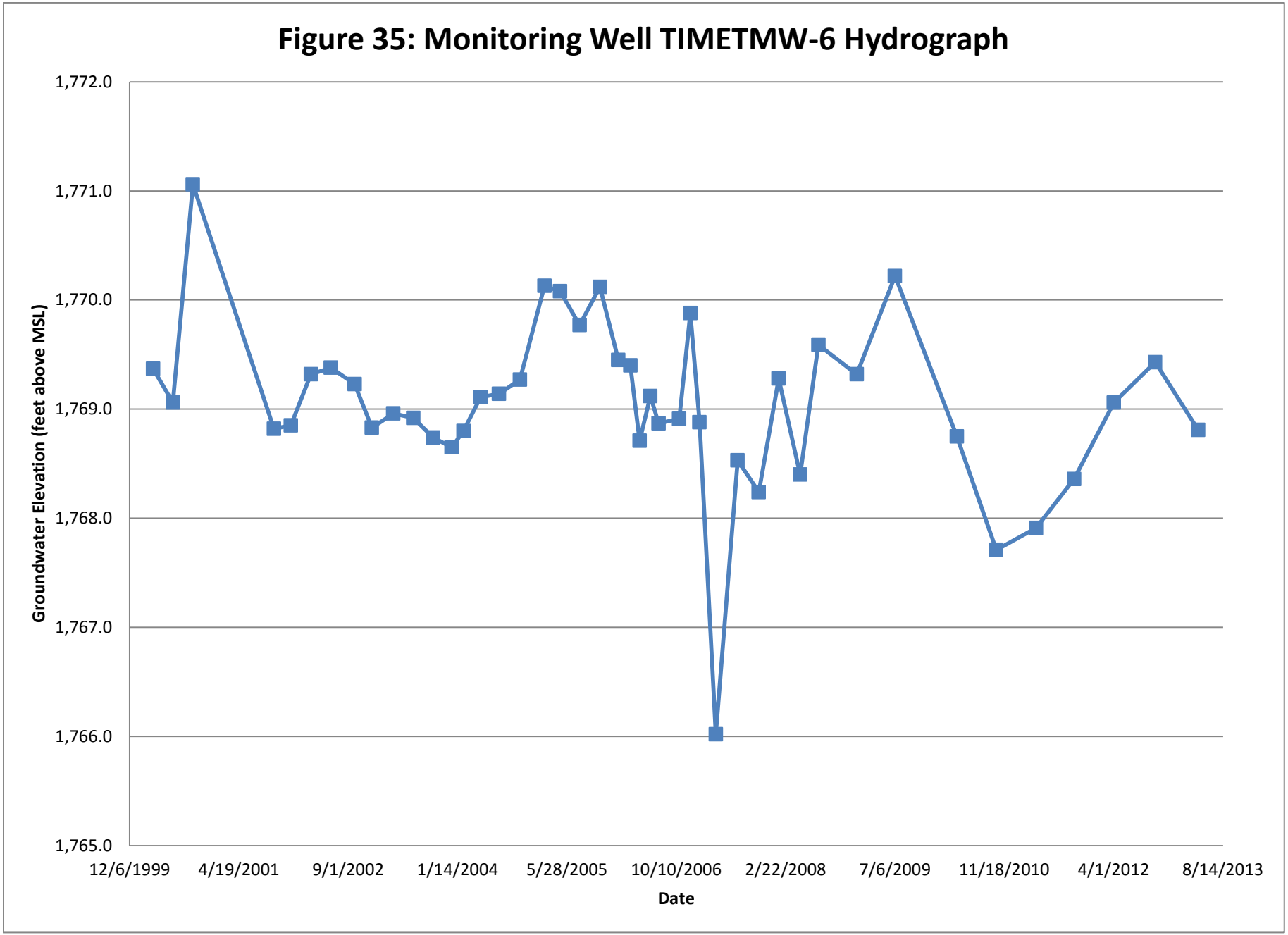


Figure 35: Monitoring Well TIMETMW-6 Hydrograph
1,772.0
1,771.0
1,770.0
1,769.0
1,768.0
1,767.0
1,766.0
1,765.0
Groundwater Elevation (feet above MSL)
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

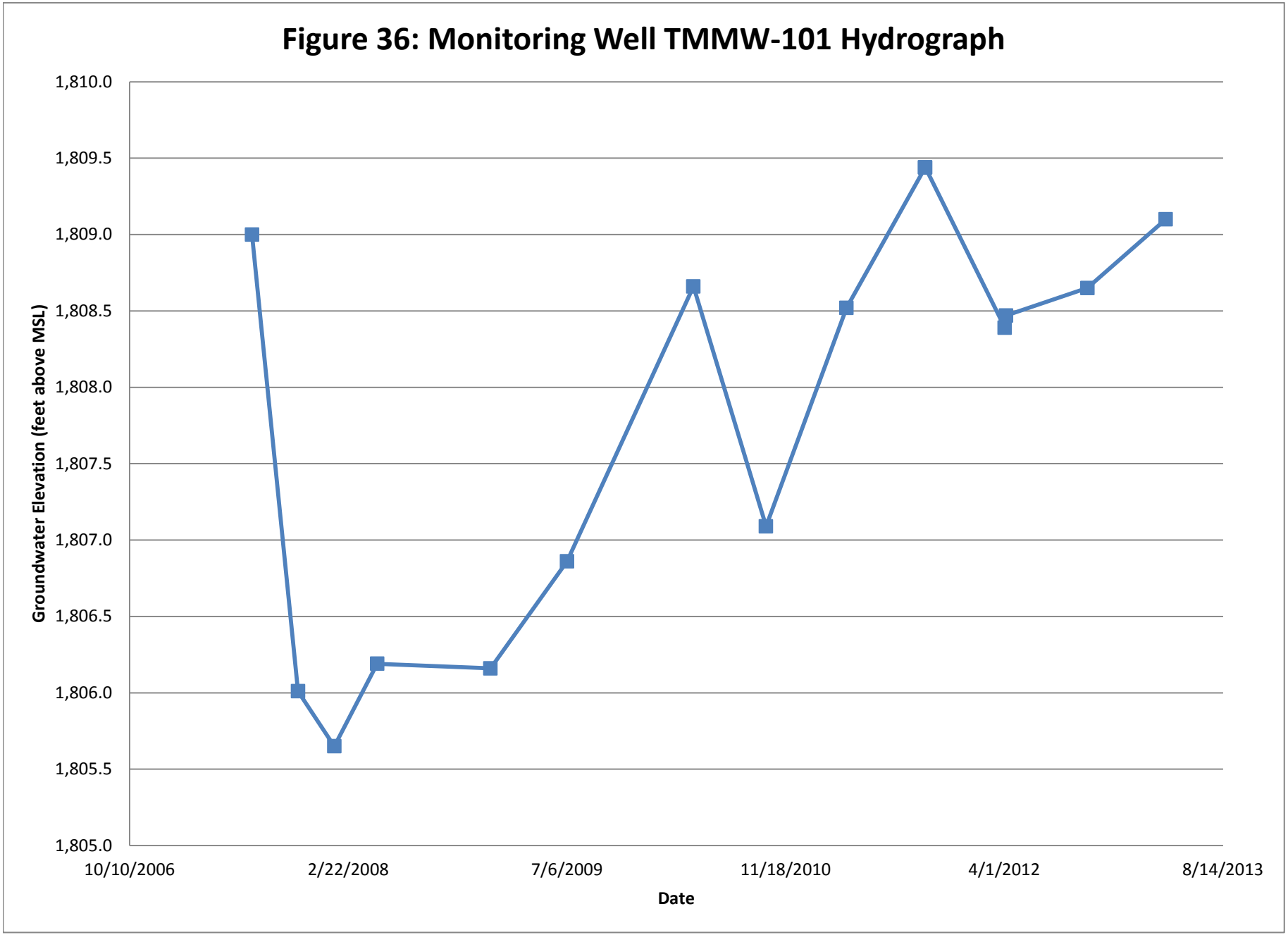


Figure 36: Monitoring Well TMMW-101 Hydrograph
1,810.0
1,809.5
1,809.0
1,808.5
1,808.0
1,807.5
1,807.0
1,806.5
1,806.0
1,805.5
1,805.0
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

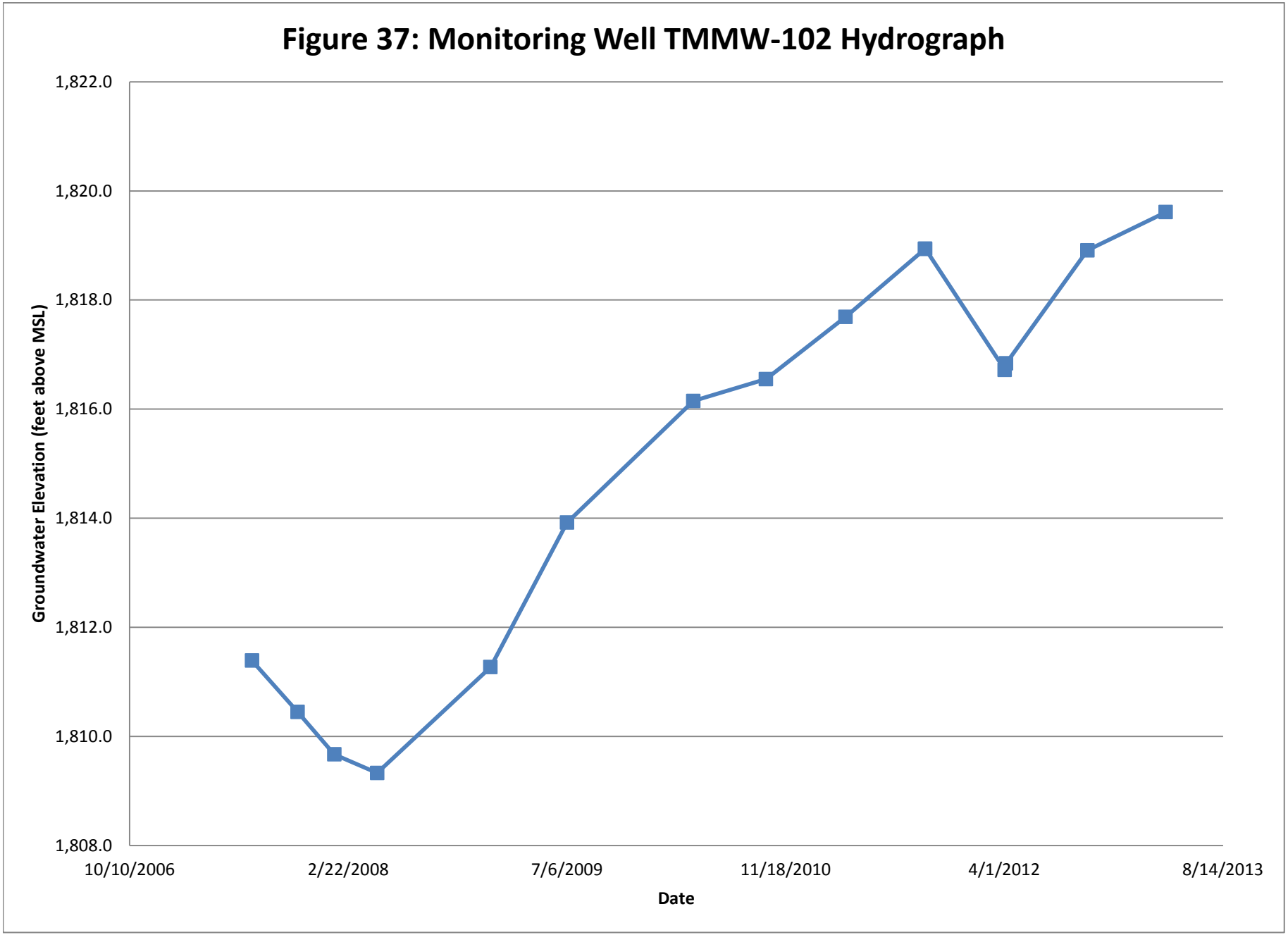


Figure 37: Monitoring Well TMMW-102 Hydrograph
1,822.0
1,820.0
1,818.0
1,816.0
1,814.0
1,812.0
1,810.0
1,808.0
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

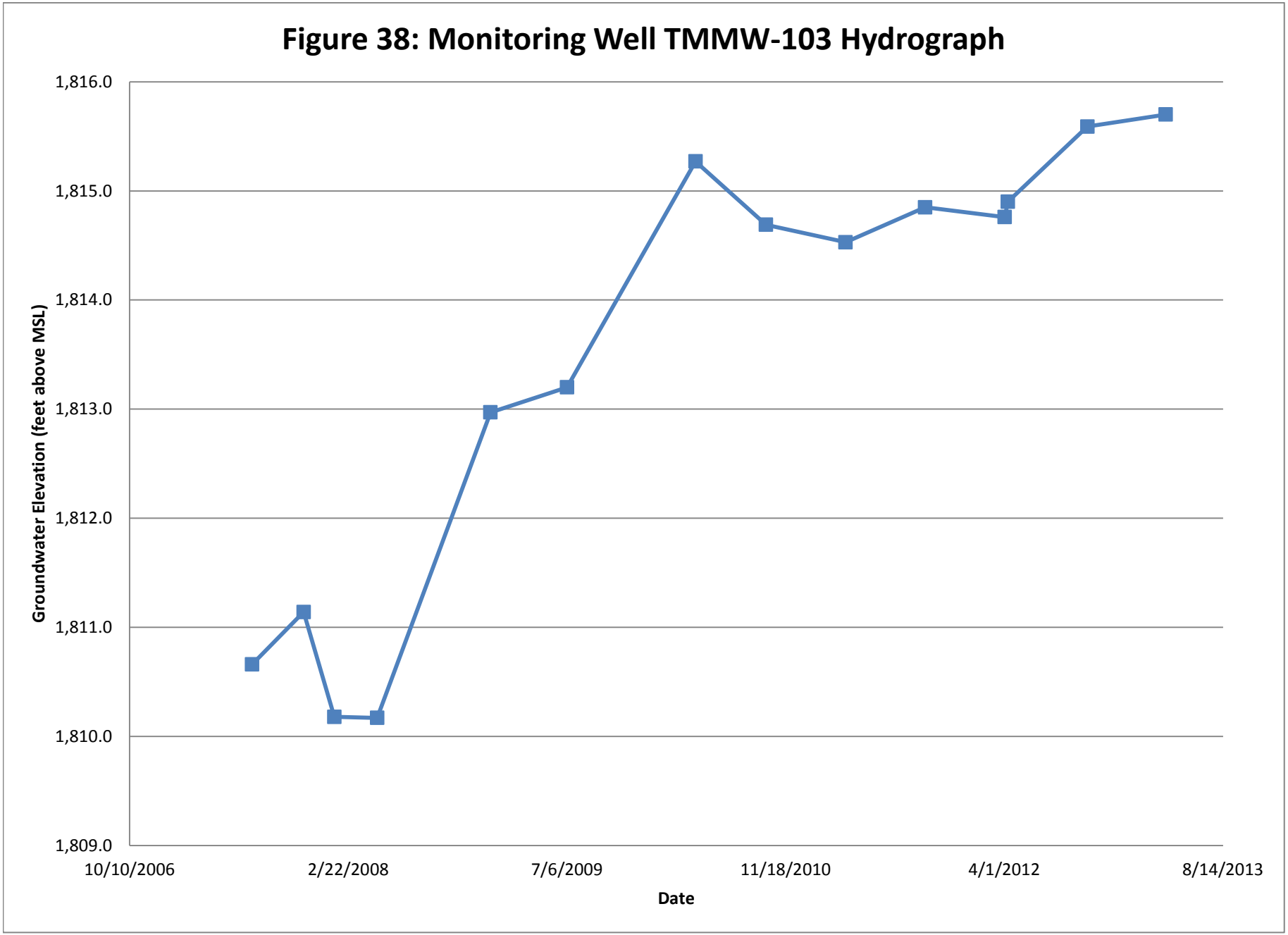


Figure 38: Monitoring Well TMMW-103 Hydrograph
1,816.0
1,815.0
1,814.0
1,813.0
1,812.0
1,811.0
1,810.0
1,809.0
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

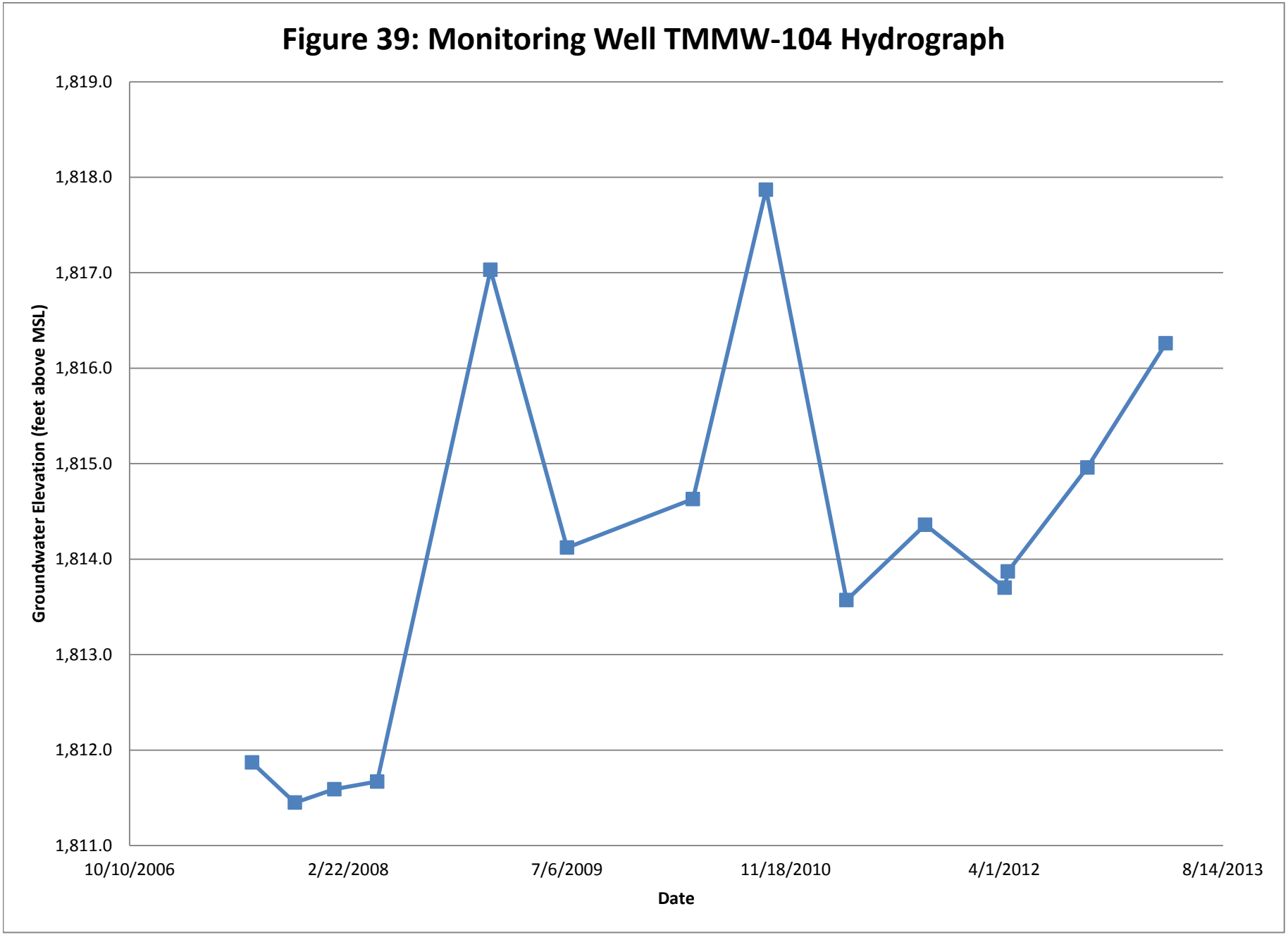


Figure 39: Monitoring Well TMMW-104 Hydrograph
1,819.0
1,818.0
1,817.0
1,816.0
1,815.0
1,814.0
1,813.0
1,812.0
1,811.0
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

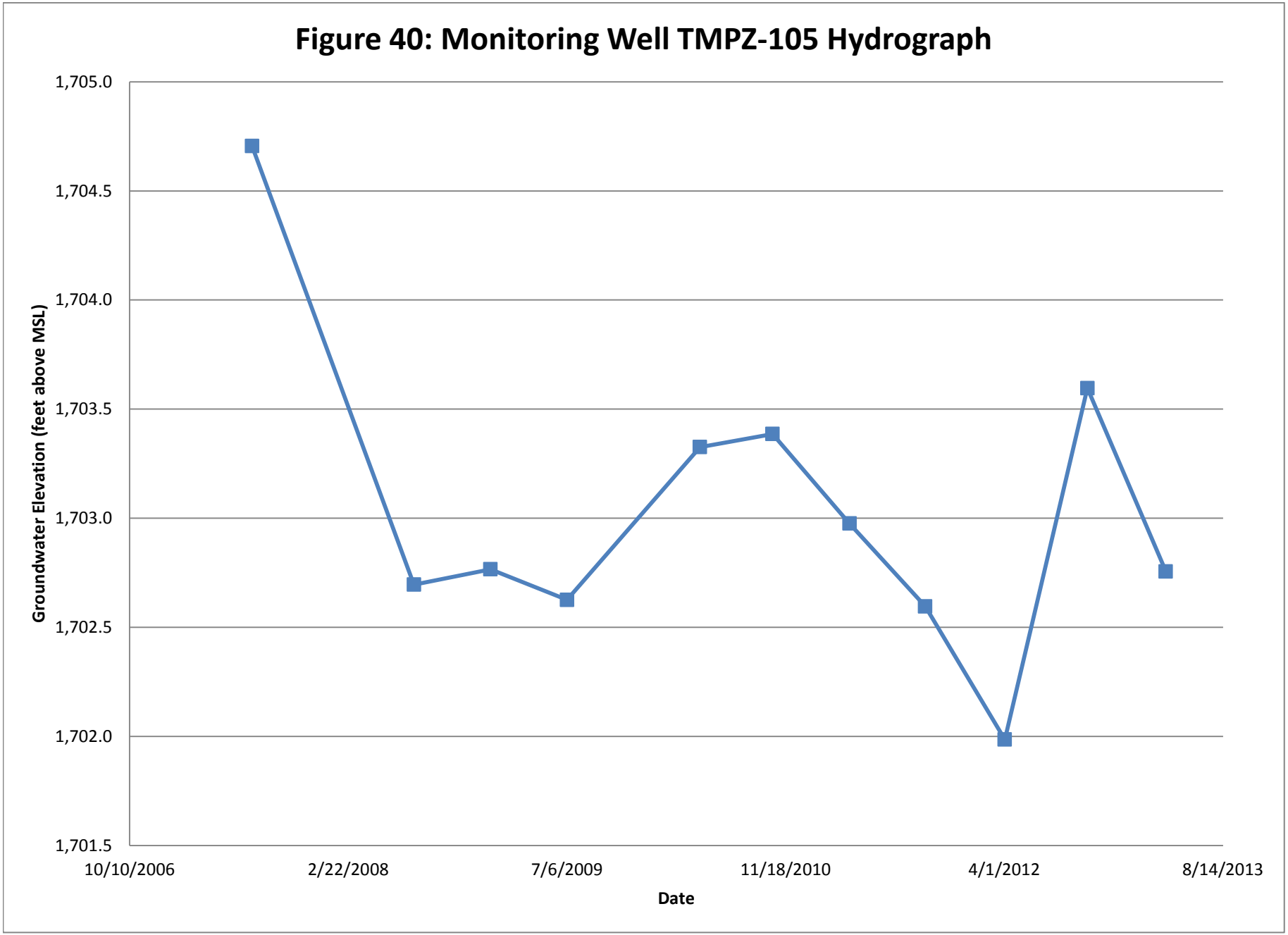


Figure 40: Monitoring Well TMPZ-105 Hydrograph
1,705.0
1,704.5
1,704.0
1,703.5
1,703.0
1,702.5
1,702.0
1,701.5
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

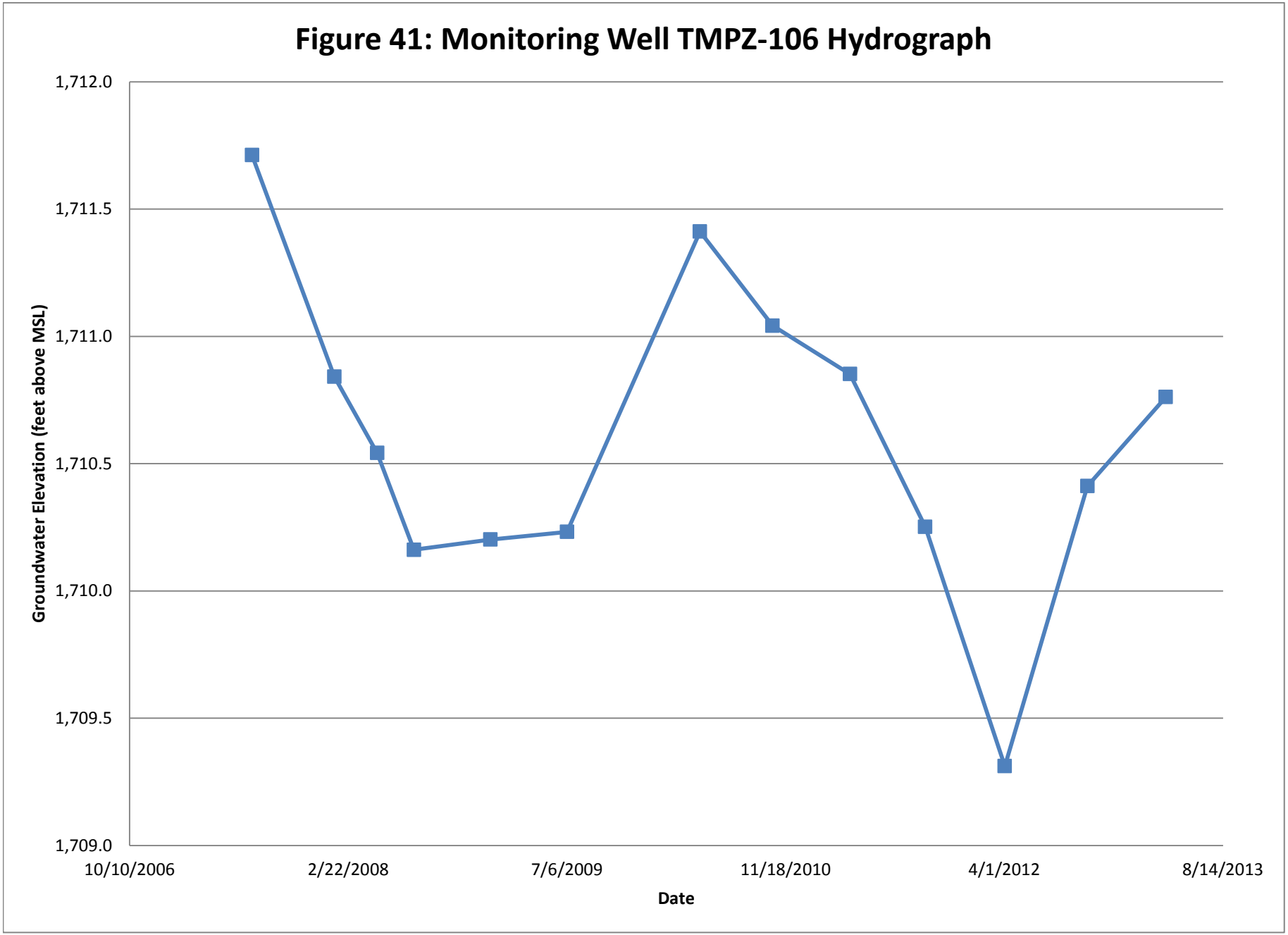


Figure 41: Monitoring Well TMPZ-106 Hydrograph
1,712.0
1,711.5
1,711.0
1,710.5
1,710.0
1,709.5
1,709.0
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

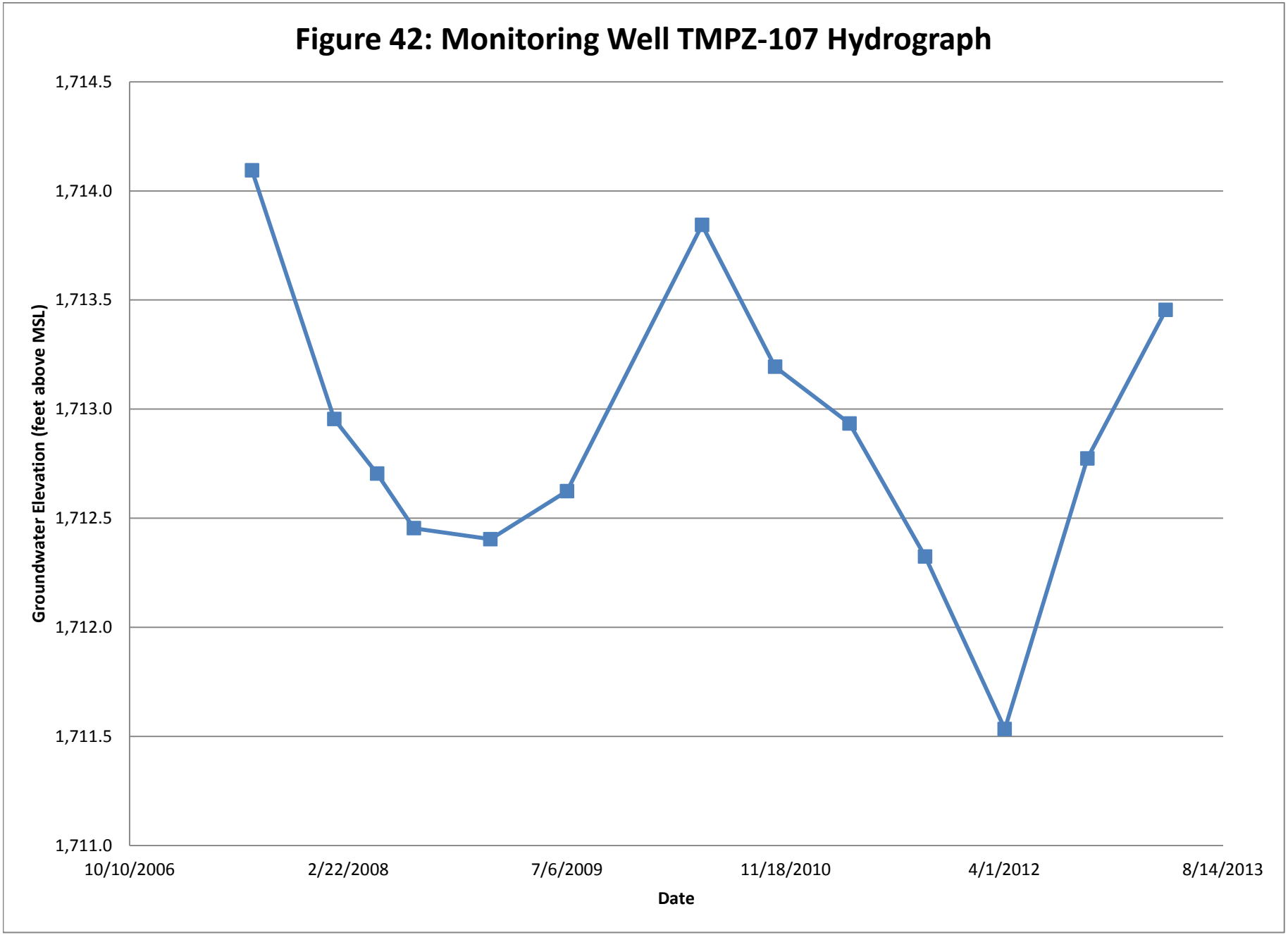


Figure 42: Monitoring Well TMPZ-107 Hydrograph
1,714.5
1,714.0
1,713.5
1,713.0
1,712.5
1,712.0
1,711.5
1,711.0
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

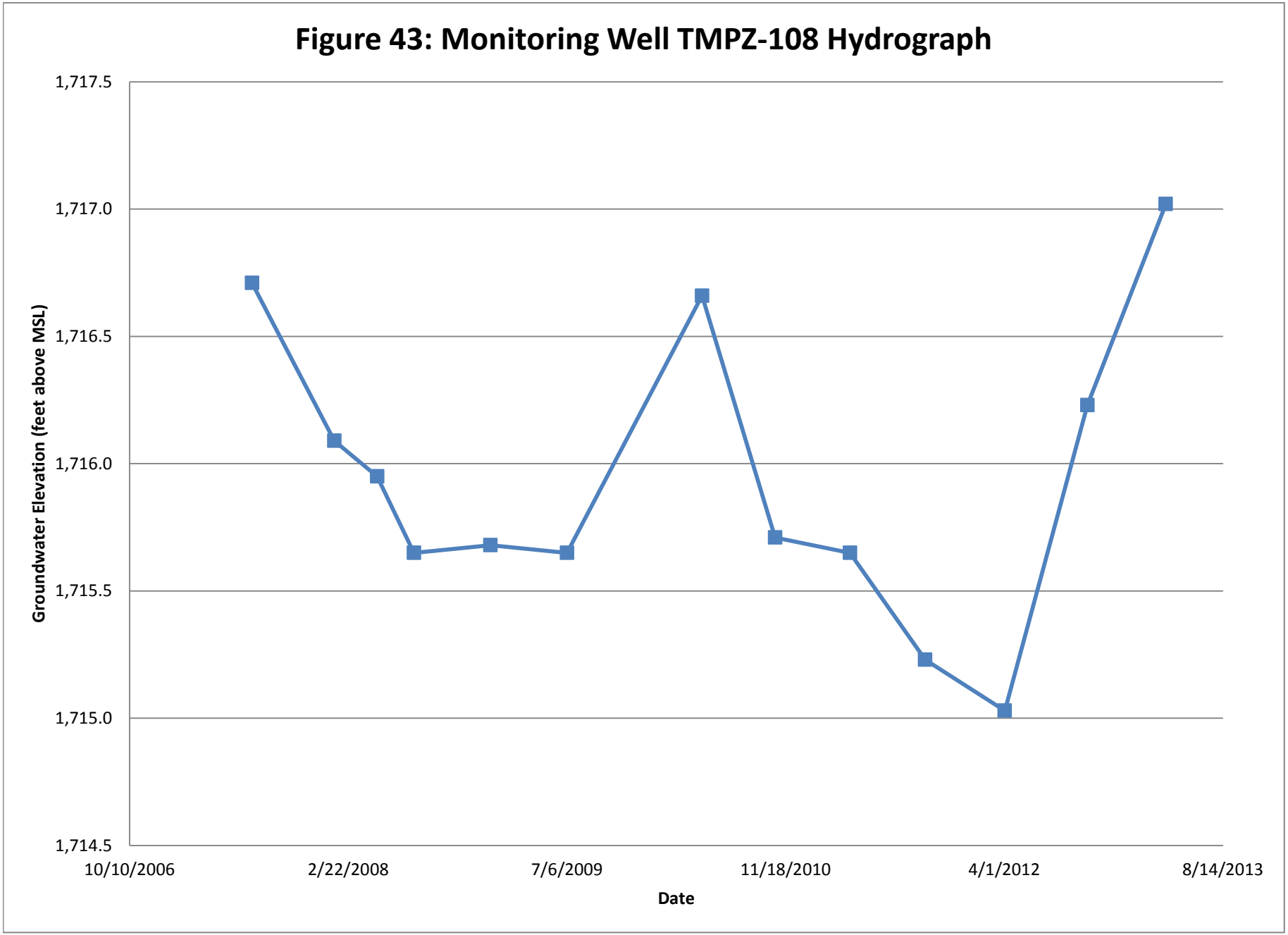


Figure 43: Monitoring Well TMPZ-108 Hydrograph
1,717.5
1,717.0
1,716.5
1,716.0
1,715.5
1,715.0
1,714.5
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

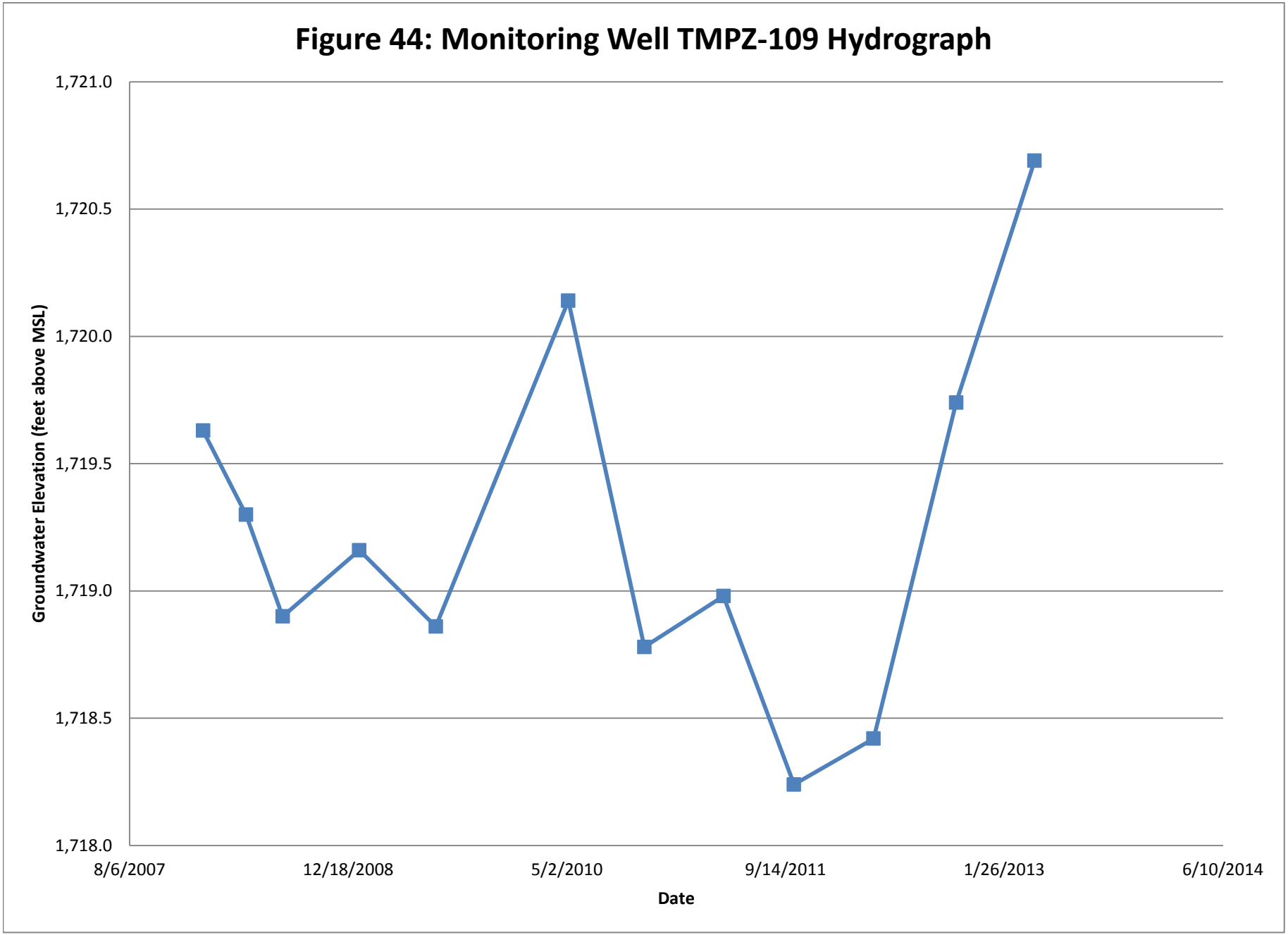


Figure 44: Monitoring Well TMPZ-109 Hydrograph
1,721.0
1,720.5
1,720.0
1,719.5
1,719.0
1,718.5
1,718.0
Groundwater Elevation (feet above MSL)
8/6/2007
12/18/2008
5/2/2010
9/14/2011
1/26/2013
6/10/2014
Date

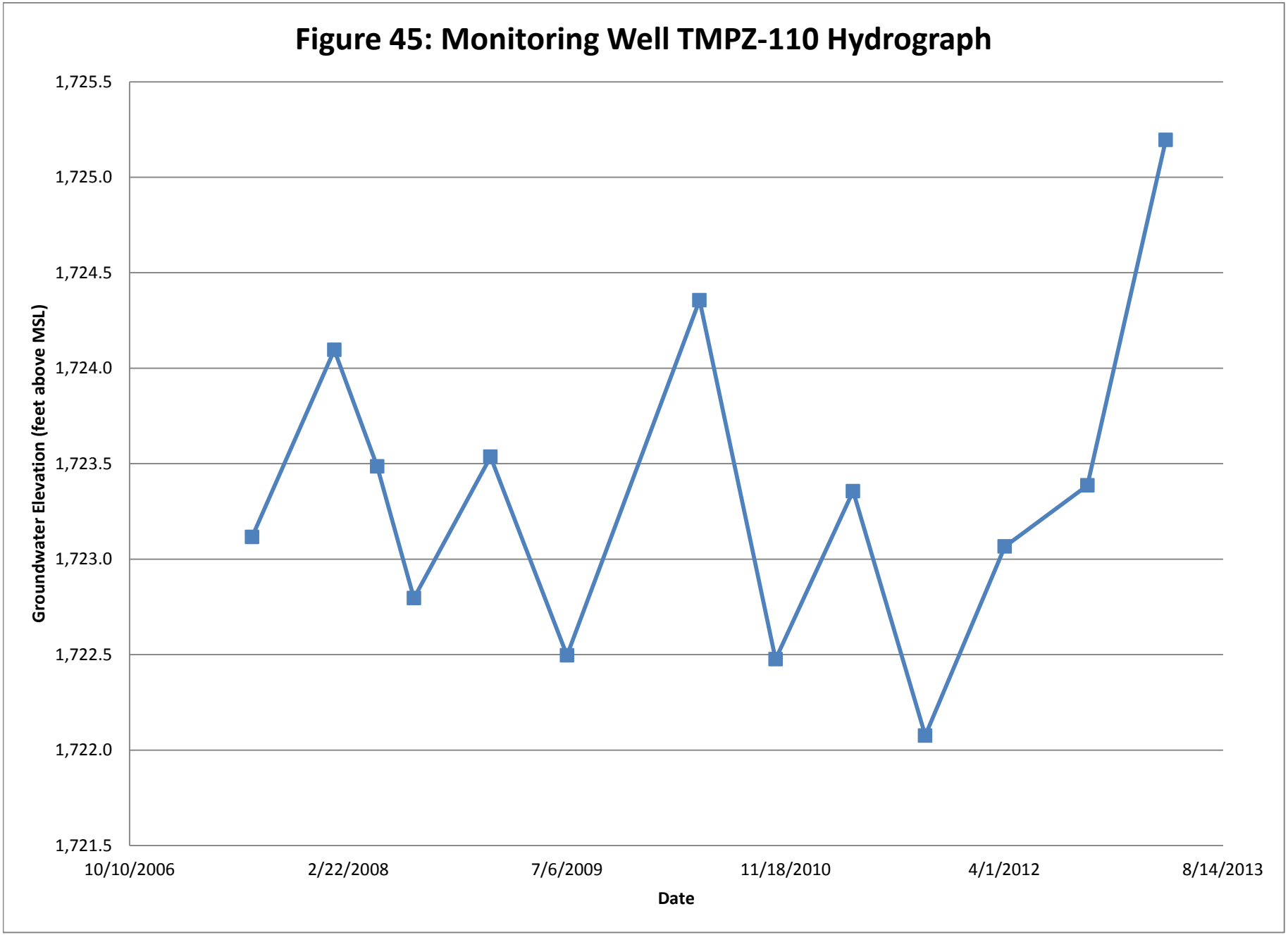


Figure 45: Monitoring Well TMPZ-110 Hydrograph
1,725.5
1,725.0
1,724.5
1,724.0
1,723.5
1,723.0
1,722.5
1,722.0
1,721.5
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

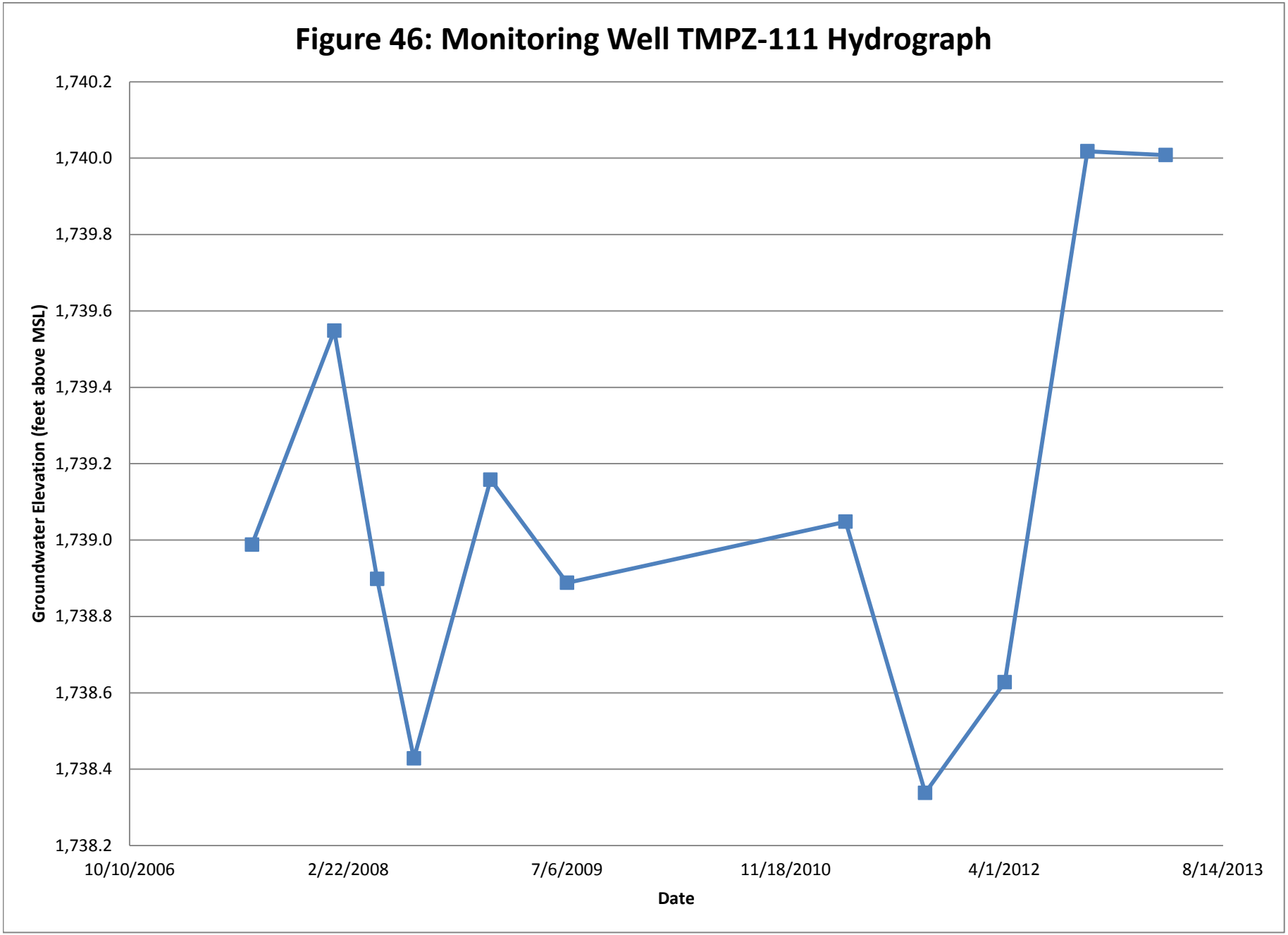


Figure 46: Monitoring Well TMPZ-111 Hydrograph
Groundwater Elevation (feet above MSL)
1,740.2
1,740.0
1,739.8
1,739.6
1,739.4
1,739.2
1,739.0
1,738.8
1,738.6
1,738.4
1,738.2
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

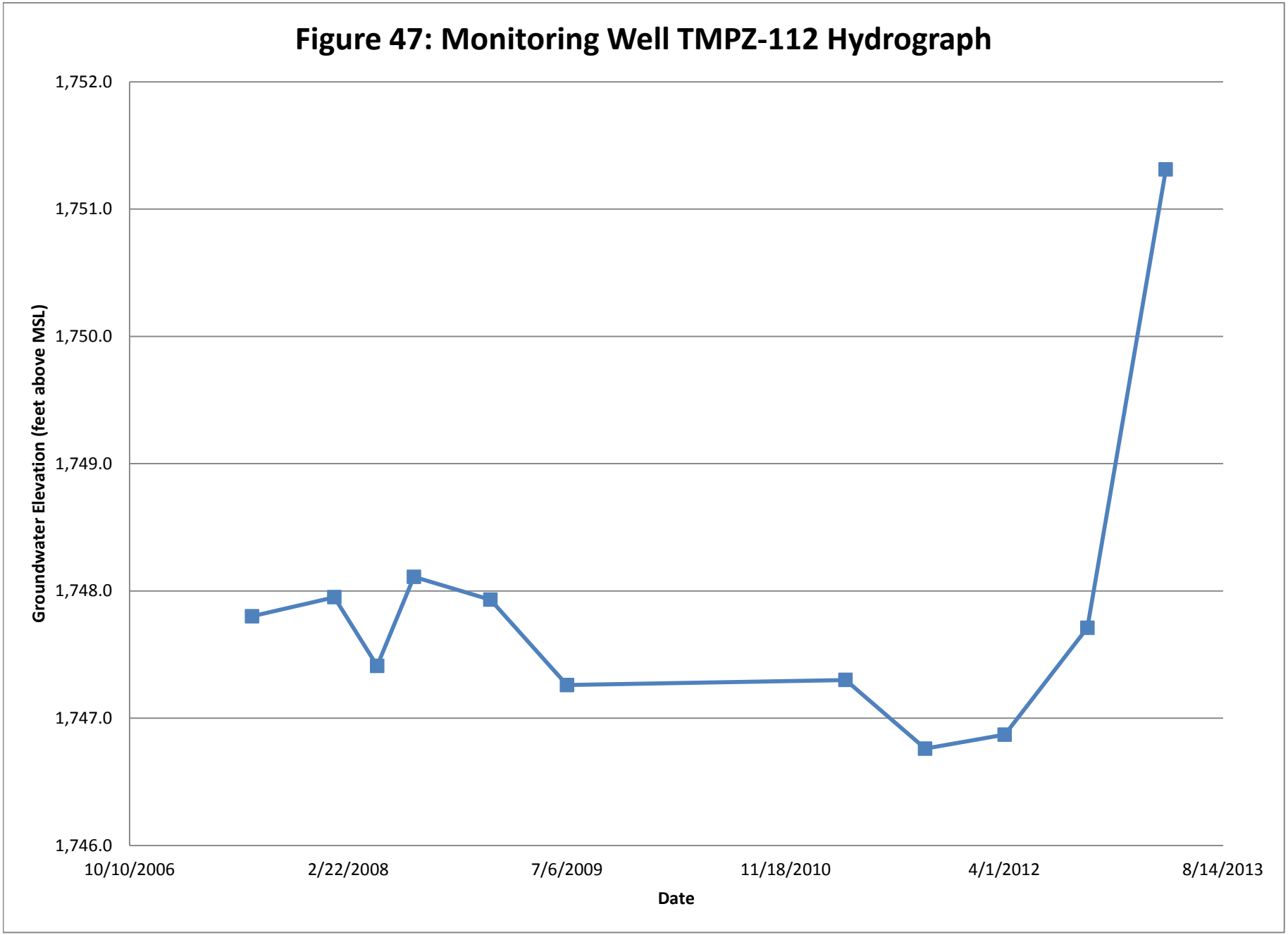


Figure 47: Monitoring Well TMPZ-112 Hydrograph
1,752.0
1,751.0
1,750.0
1,749.0
1,748.0
1,747.0
1,746.0
Groundwater Elevation (feet above MSL)
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

Appendix D

Concentration Trend Graphs

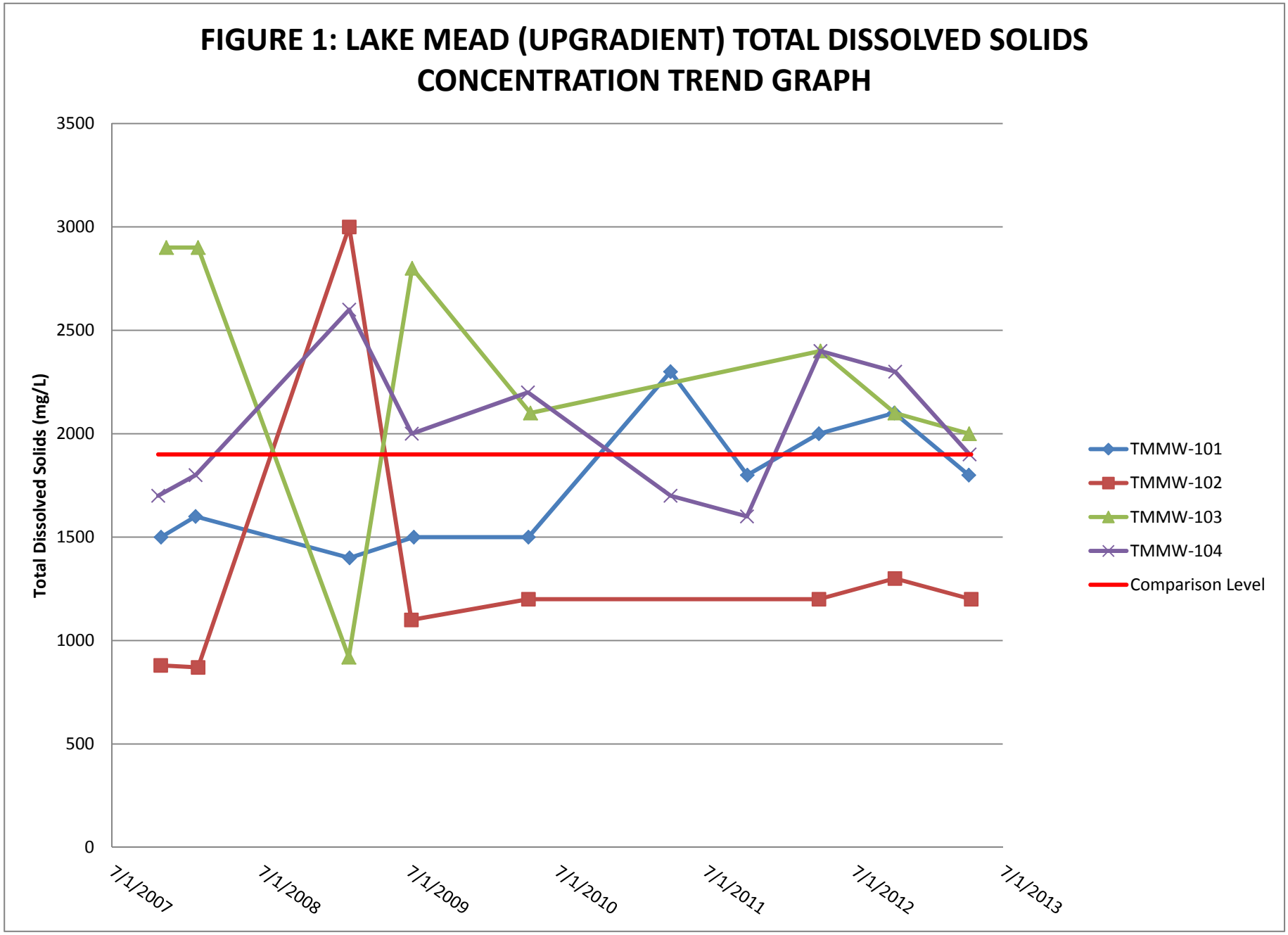
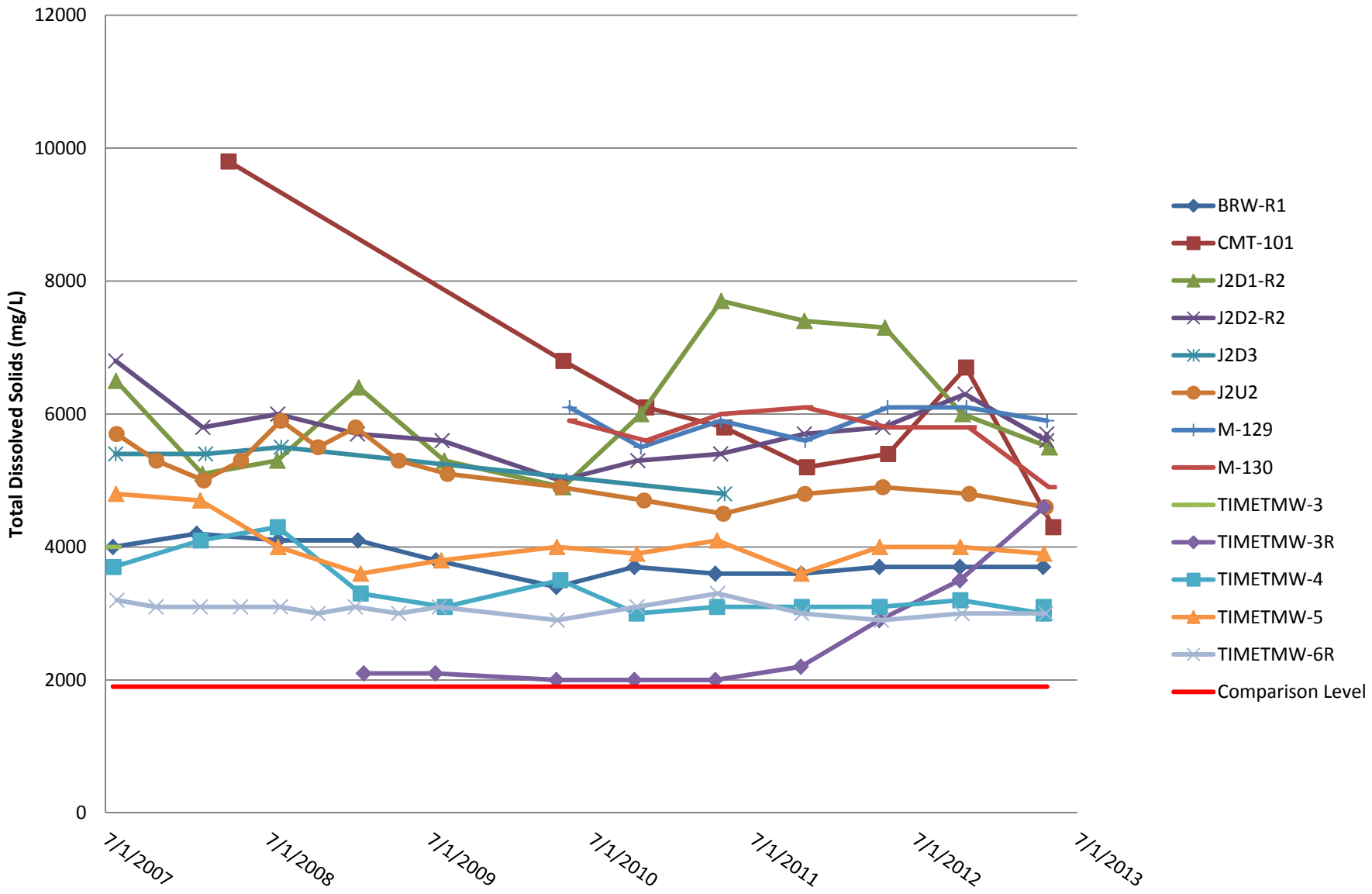


FIGURE 1: LAKE MEAD (UPGRADIENT) TOTAL DISSOLVED SOLIDS CONCENTRATION TREND GRAPH
Total Dissolved Solids (mg/L)
3500
3000
2500
2000
1500
1000
500
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
TMMW-101
TMMW-102
TMMW-103
TMMW-104
Comparison Level

FIGURE 2: PLANT SITE TOTAL DISSOLVED SOLIDS (low range) CONCENTRATION TREND GRAPH



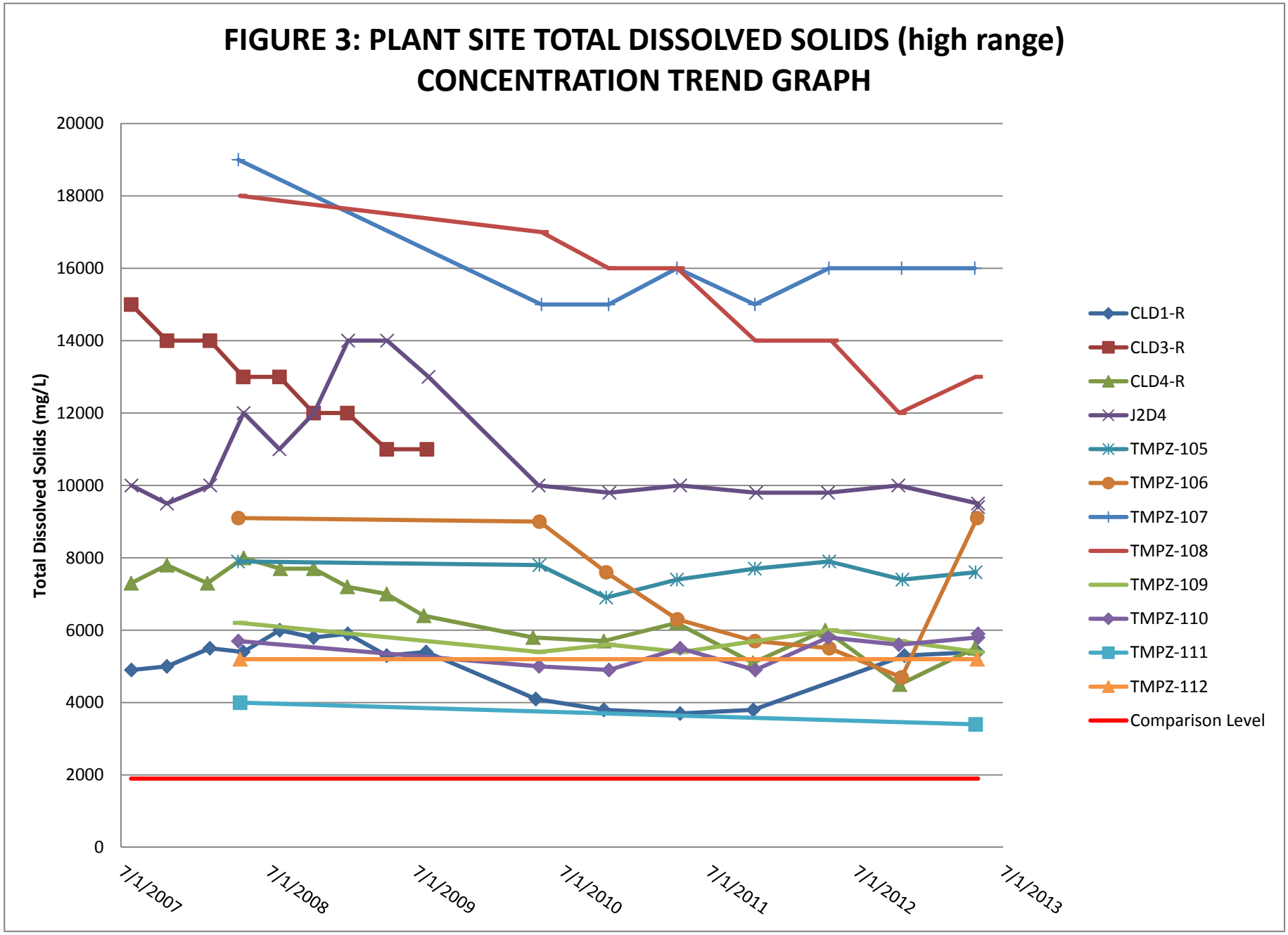


FIGURE 3: PLANT SITE TOTAL DISSOLVED SOLIDS (high range)
CONCENTRATION TREND GRAPH
Total Dissolved Solids (mg/L)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
CLD1-R
CLD3-R
CLD4-R
J2D4
TMPZ-105
TMPZ-106
TMPZ-107
TMPZ-108
TMPZ-109
TMPZ-110
TMPZ-111
TMPZ-112
Comparison Level

FIGURE 4: DOWNGRADIENT TOTAL DISSOLVED SOLIDS CONCENTRATION TREND GRAPH

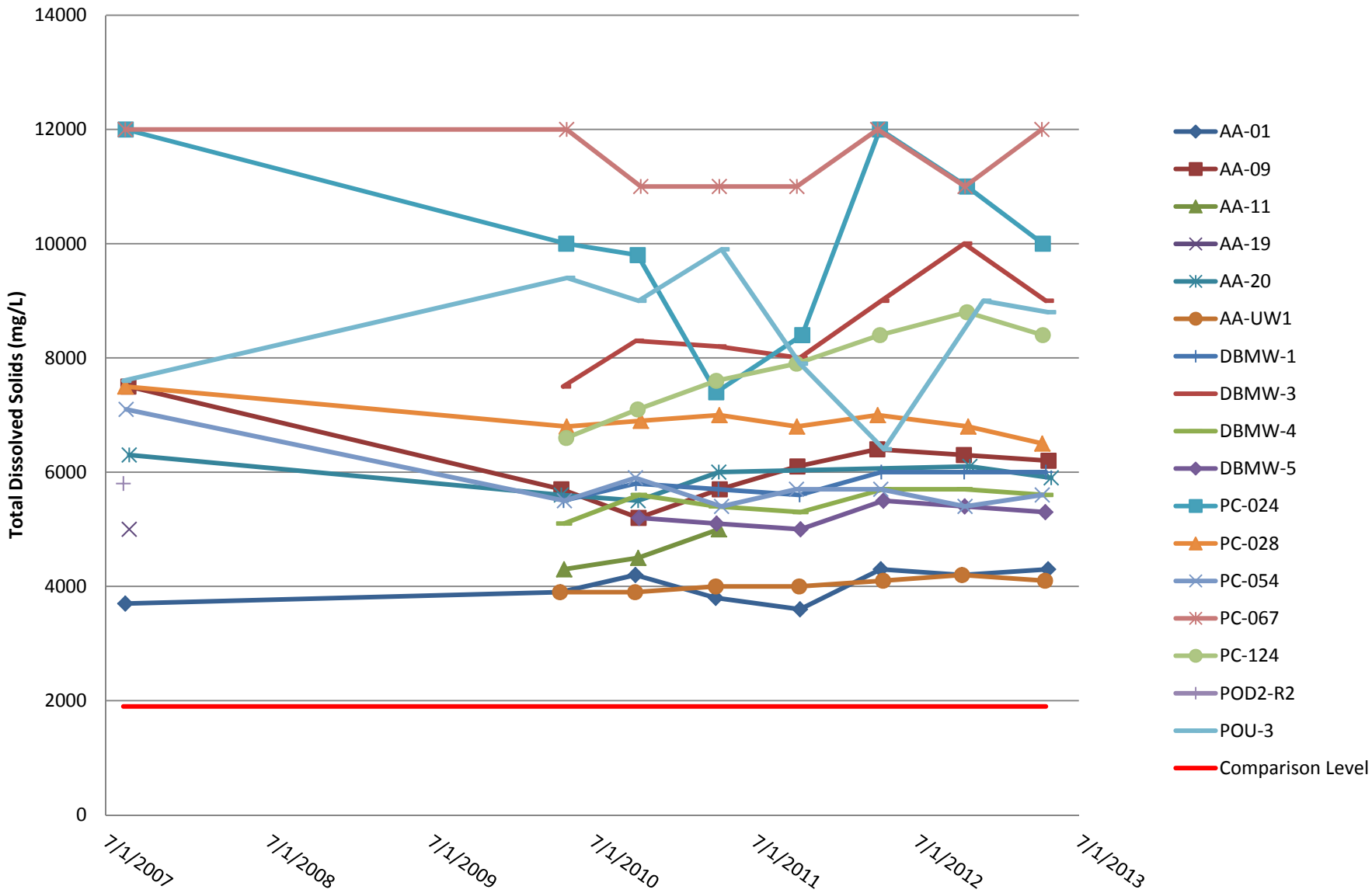
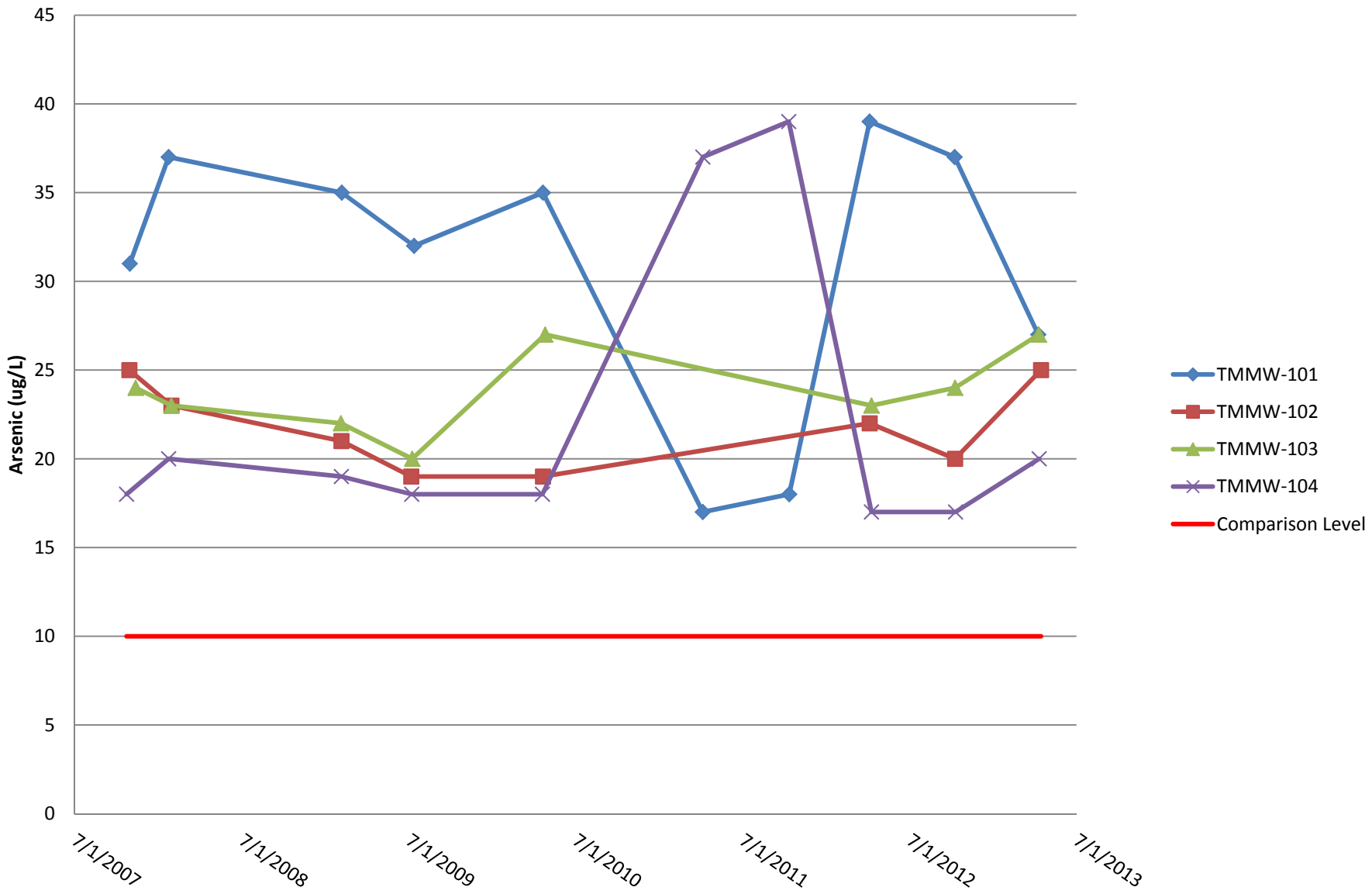


FIGURE 5: LAKE MEAD (UPGRADIENT) ARSENIC CONCENTRATION TREND GRAPH



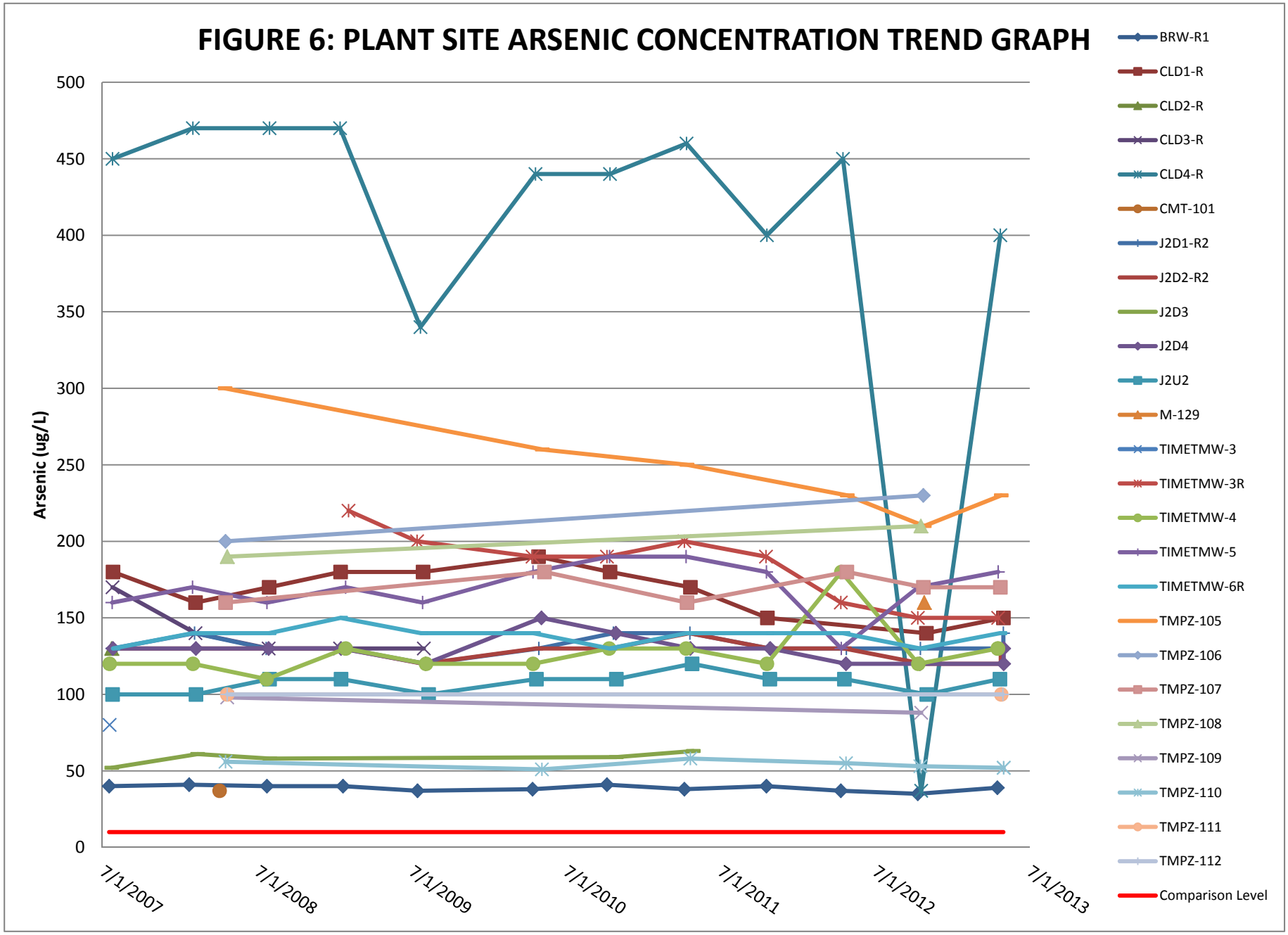


FIGURE 6: PLANT SITE ARSENIC CONCENTRATION TREND GRAPH
Arsenic (ug/L)
500
450
400
350
300
250
200
150
100
50
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
CMT-101
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U2
M-129
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMPZ-105
TMPZ-106
TMPZ-107
TMPZ-108
TMPZ-109
TMPZ-110
TMPZ-111
TMPZ-112
Comparison Level

FIGURE 7: DOWNGRADIENT ARSENIC CONCENTRATION TREND GRAPH

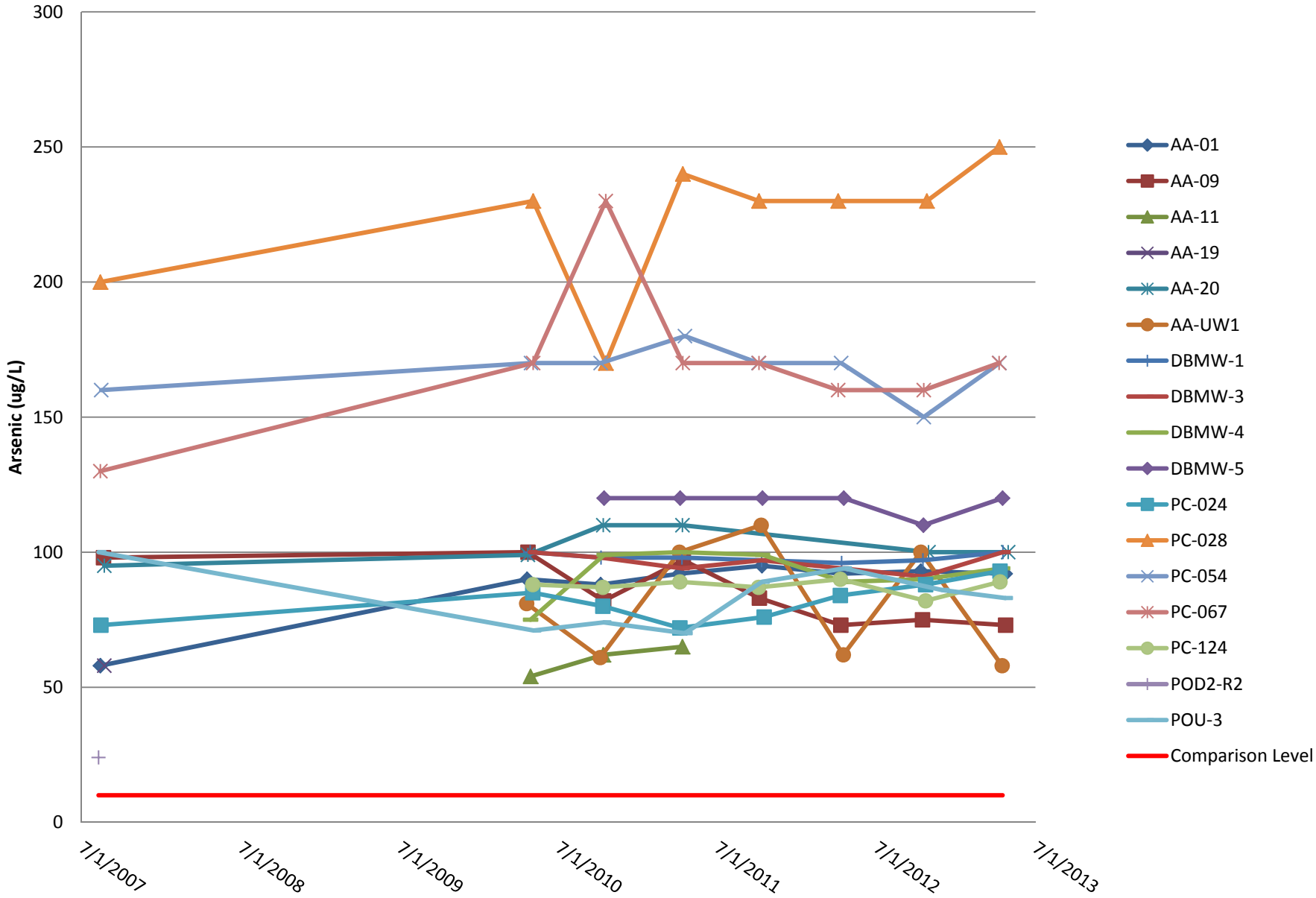


FIGURE 8: LAKE MEAD (UPGRADIENT) CHROMIUM CONCENTRATION TREND GRAPH

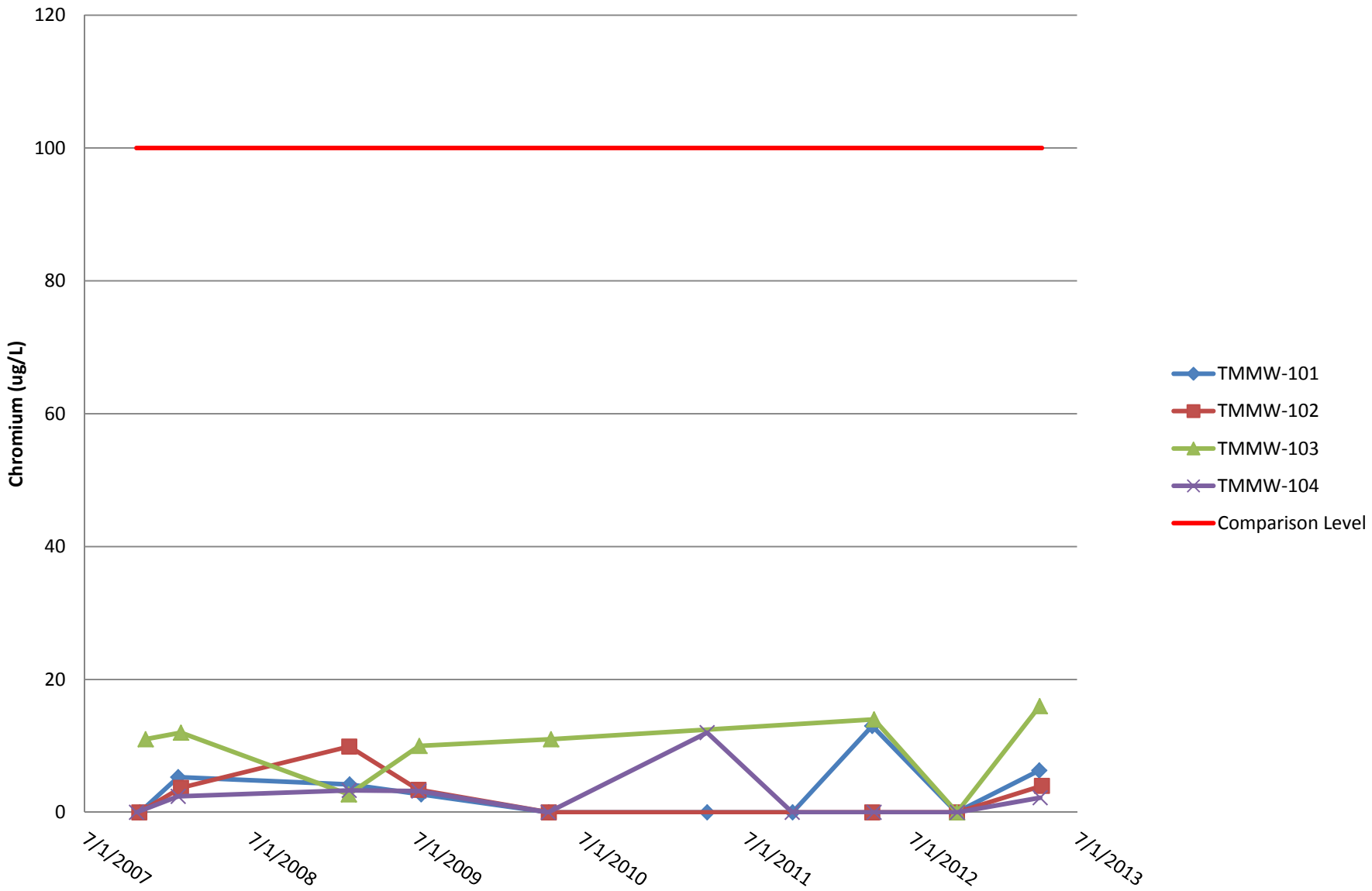


FIGURE 9: PLANT SITE CHROMIUM (low range) CONCENTRATION TREND GRAPH

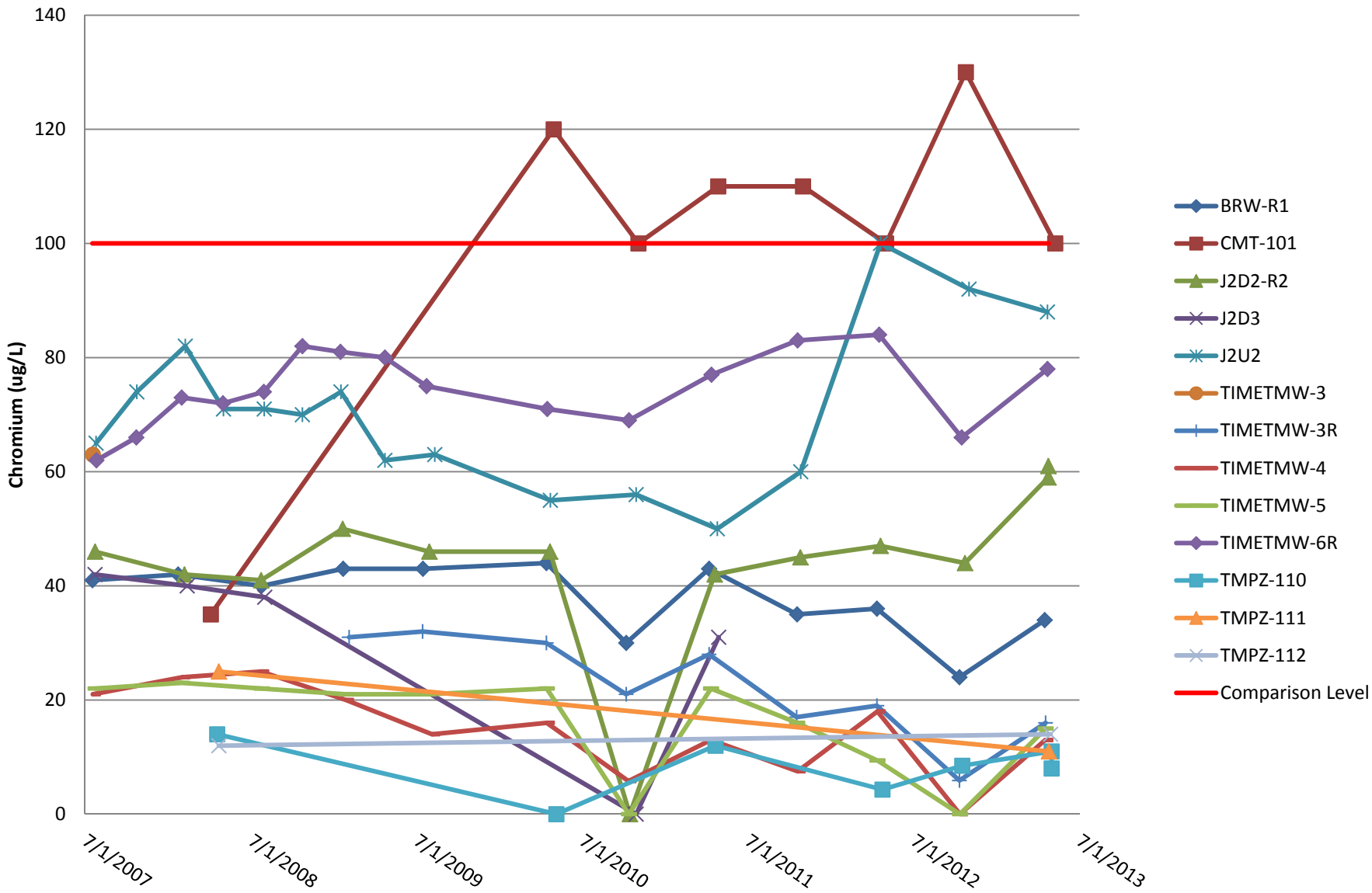


FIGURE 10: PLANT SITE CHROMIUM (high range) CONCENTRATION TREND GRAPH

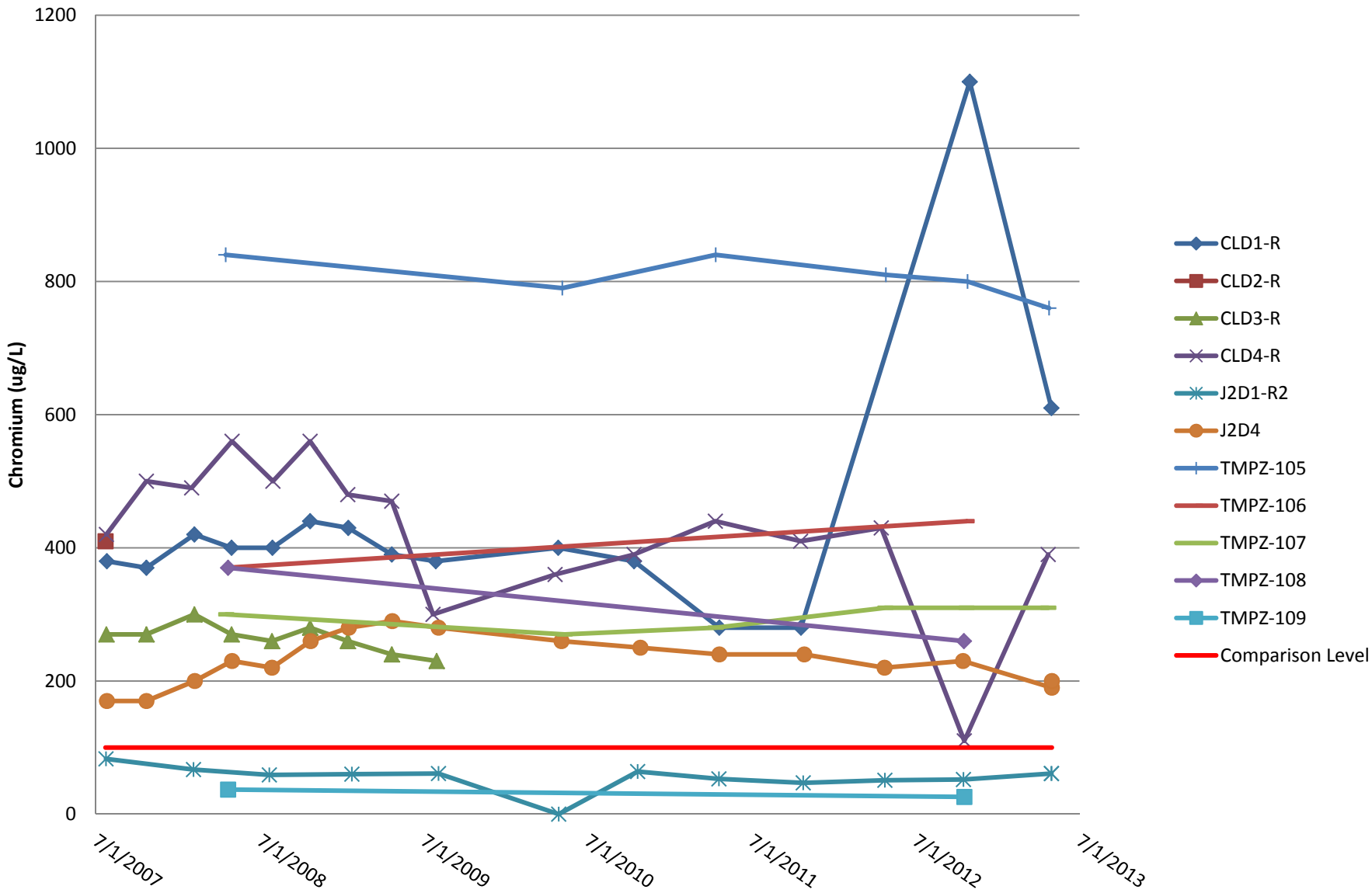


FIGURE 11:DOWNGRADIENT CHROMIUM CONCENTRATION TREND GRAPH

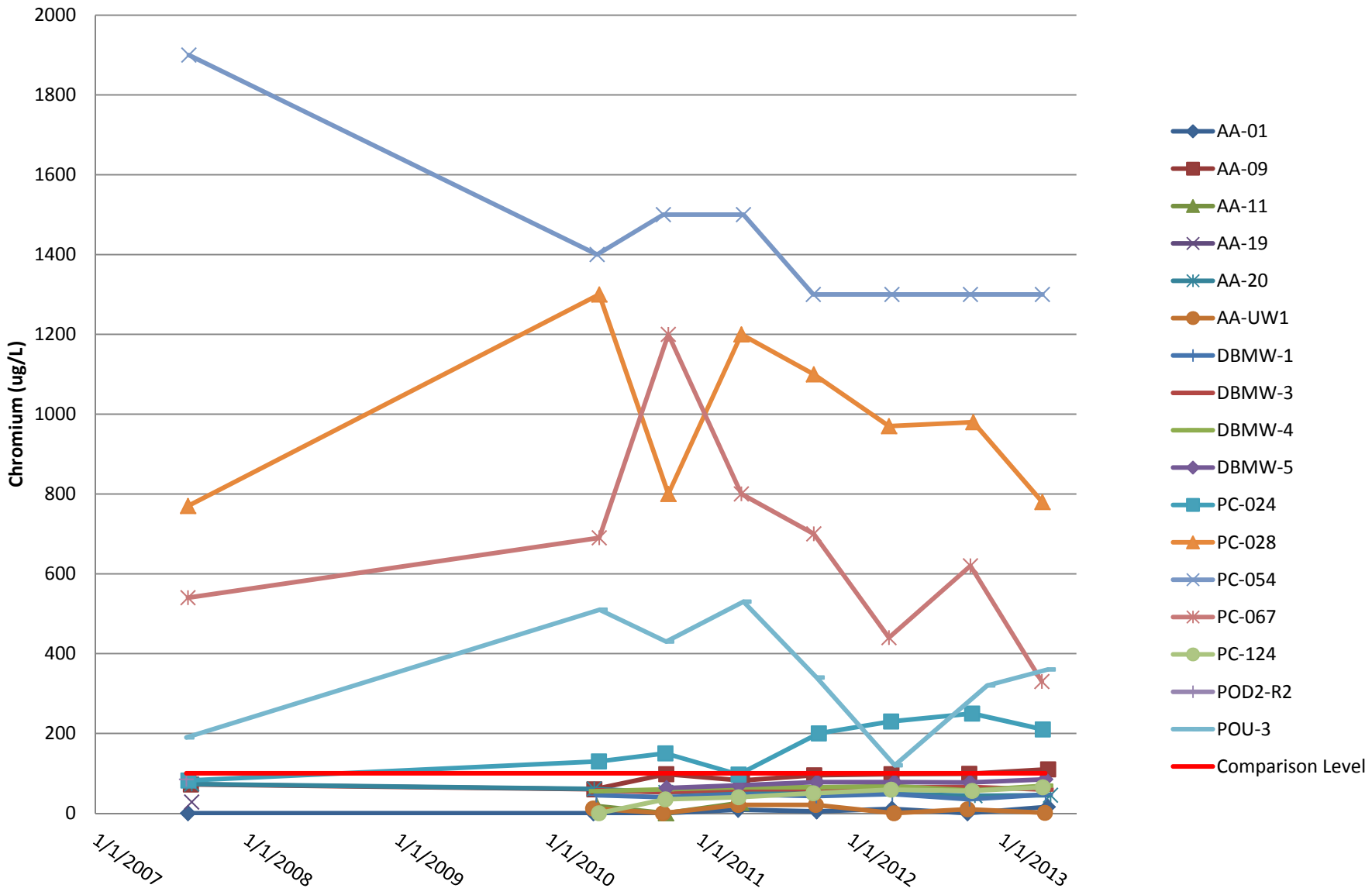


FIGURE 12: LAKE MEAD (UPGRADIENT) TOTAL URANIUM CONCENTRATION TREND GRAPH

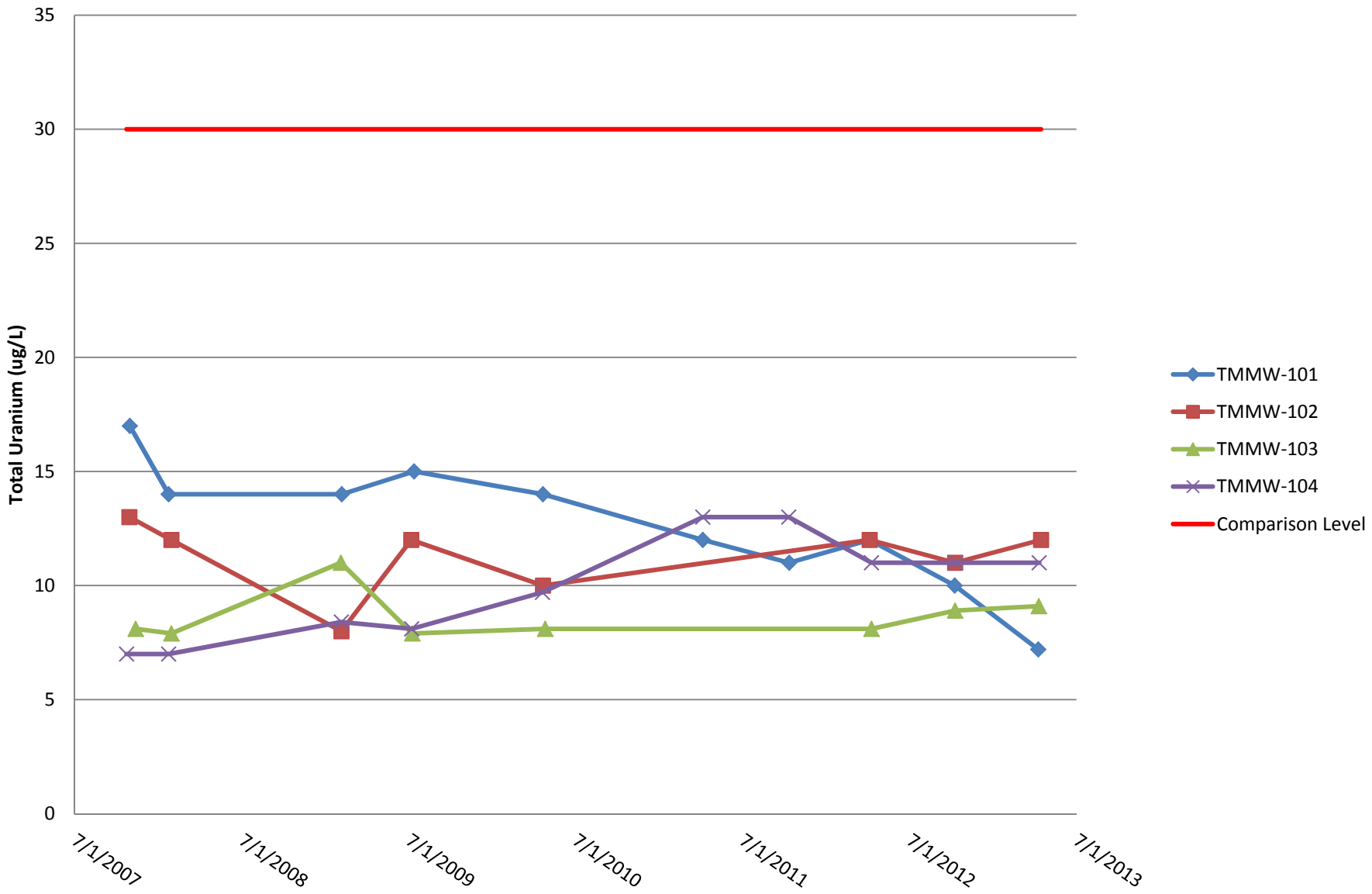


FIGURE 13: PLANT SITE TOTAL URANIUM (low range) CONCENTRATION TREND GRAPH

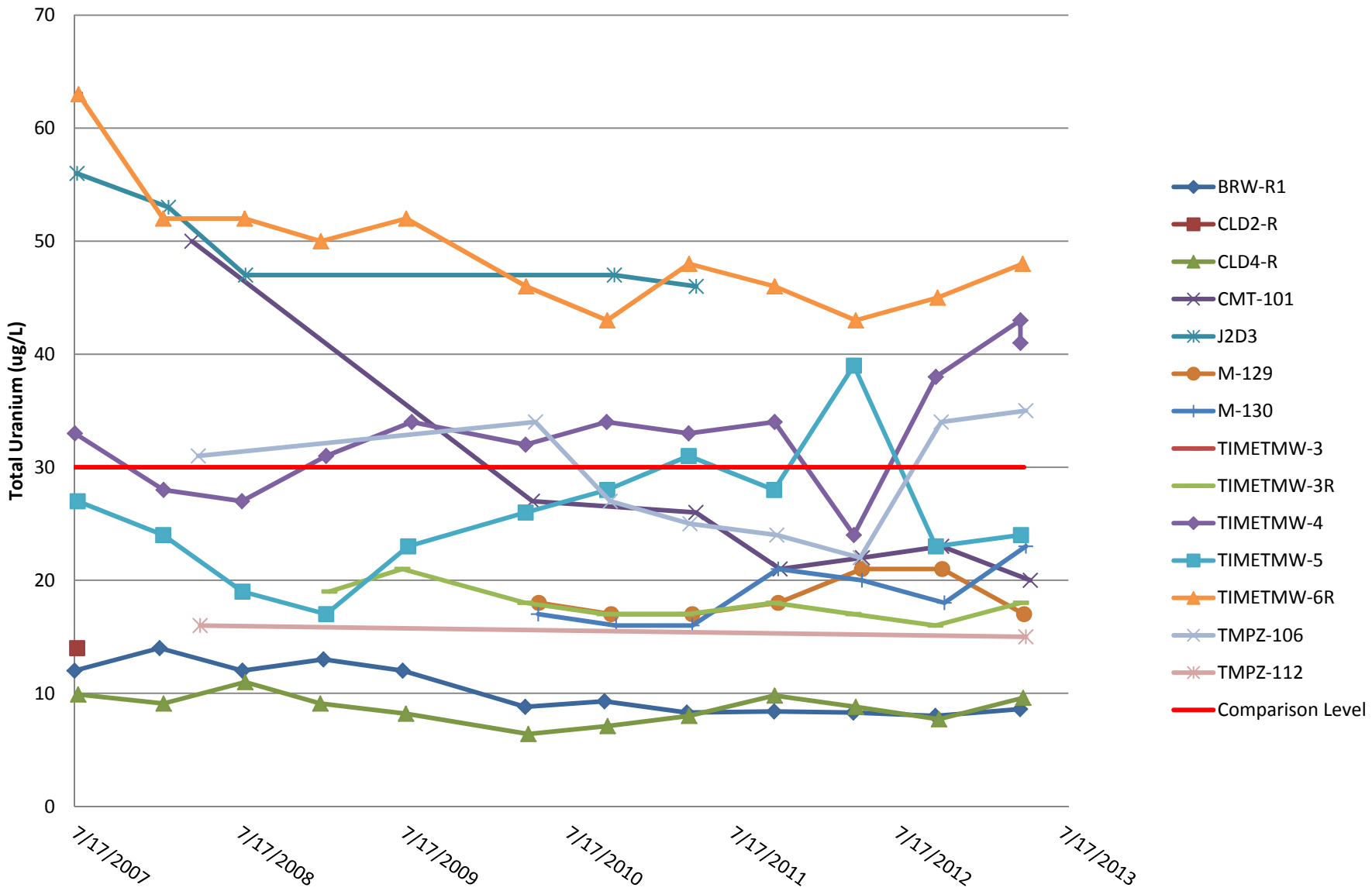


FIGURE 14: PLANT SITE TOTAL URANIUM (high range) CONCENTRATION TREND GRAPH

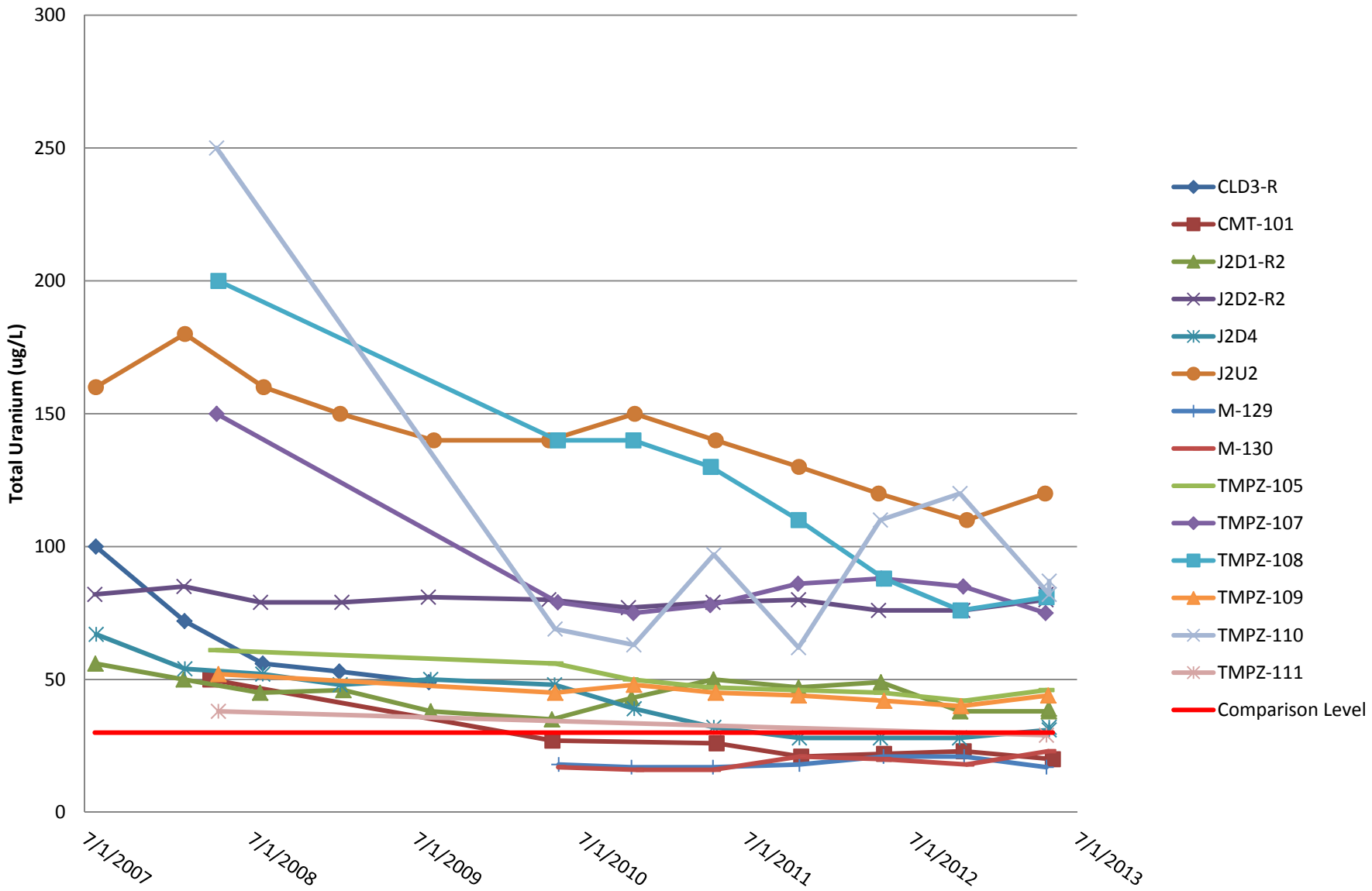


FIGURE 15: DOWNGRADIENT TOTAL URANIUM CONCENTRATION TREND GRAPH

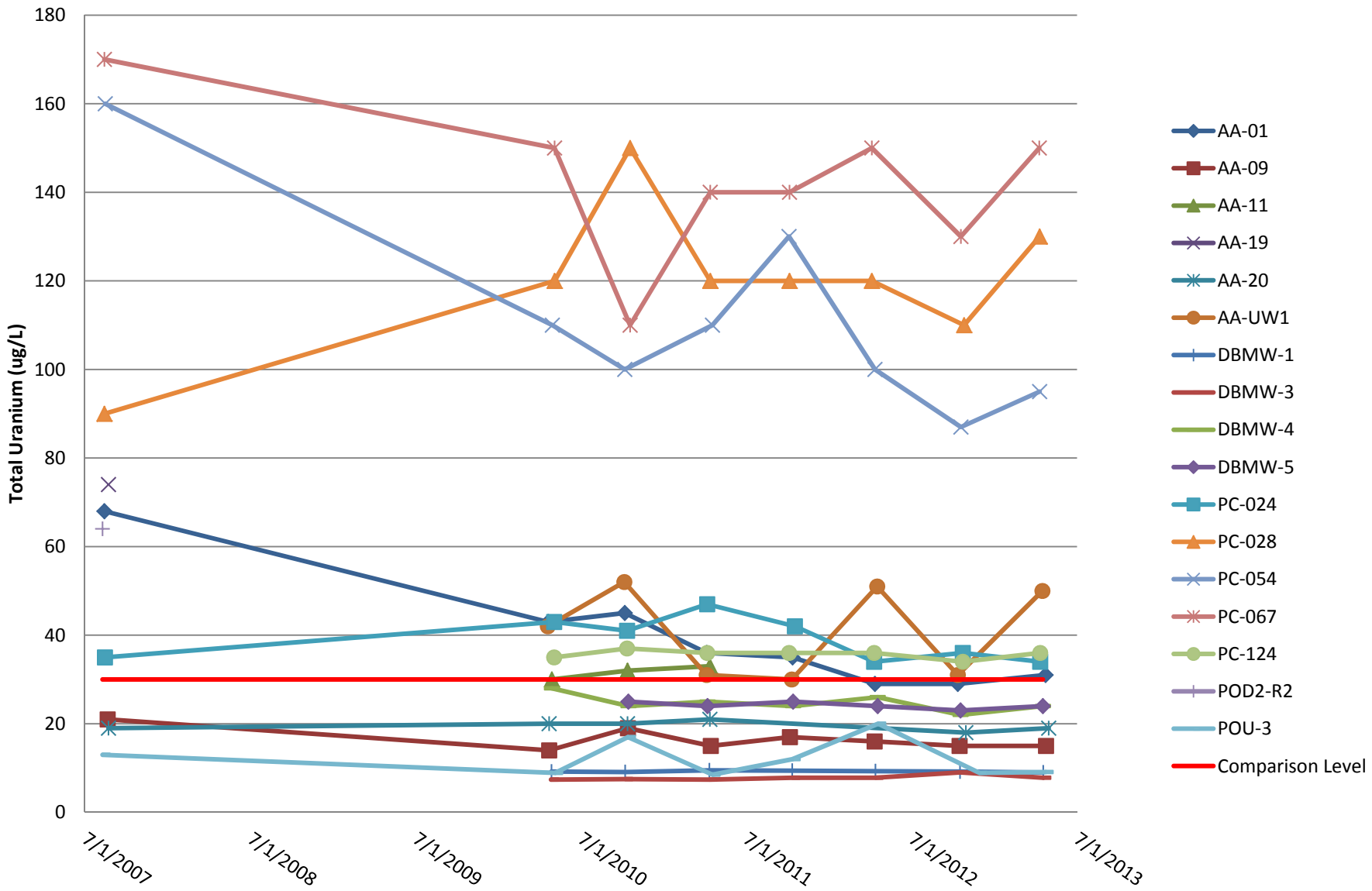
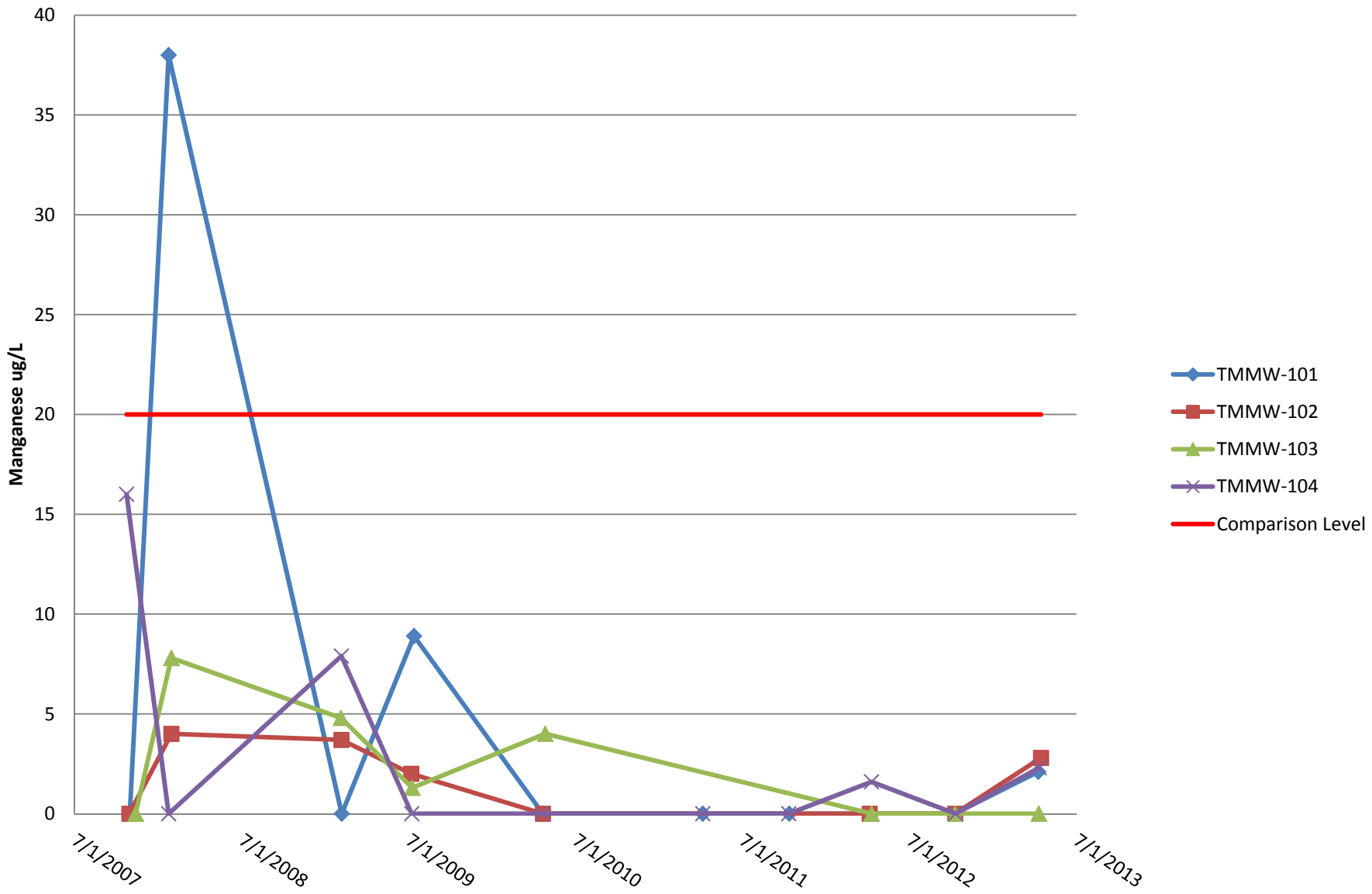


FIGURE 16: LAKE MEAD (UPGRADIENT) MANGANESE CONCENTRATION TREND GRAPH



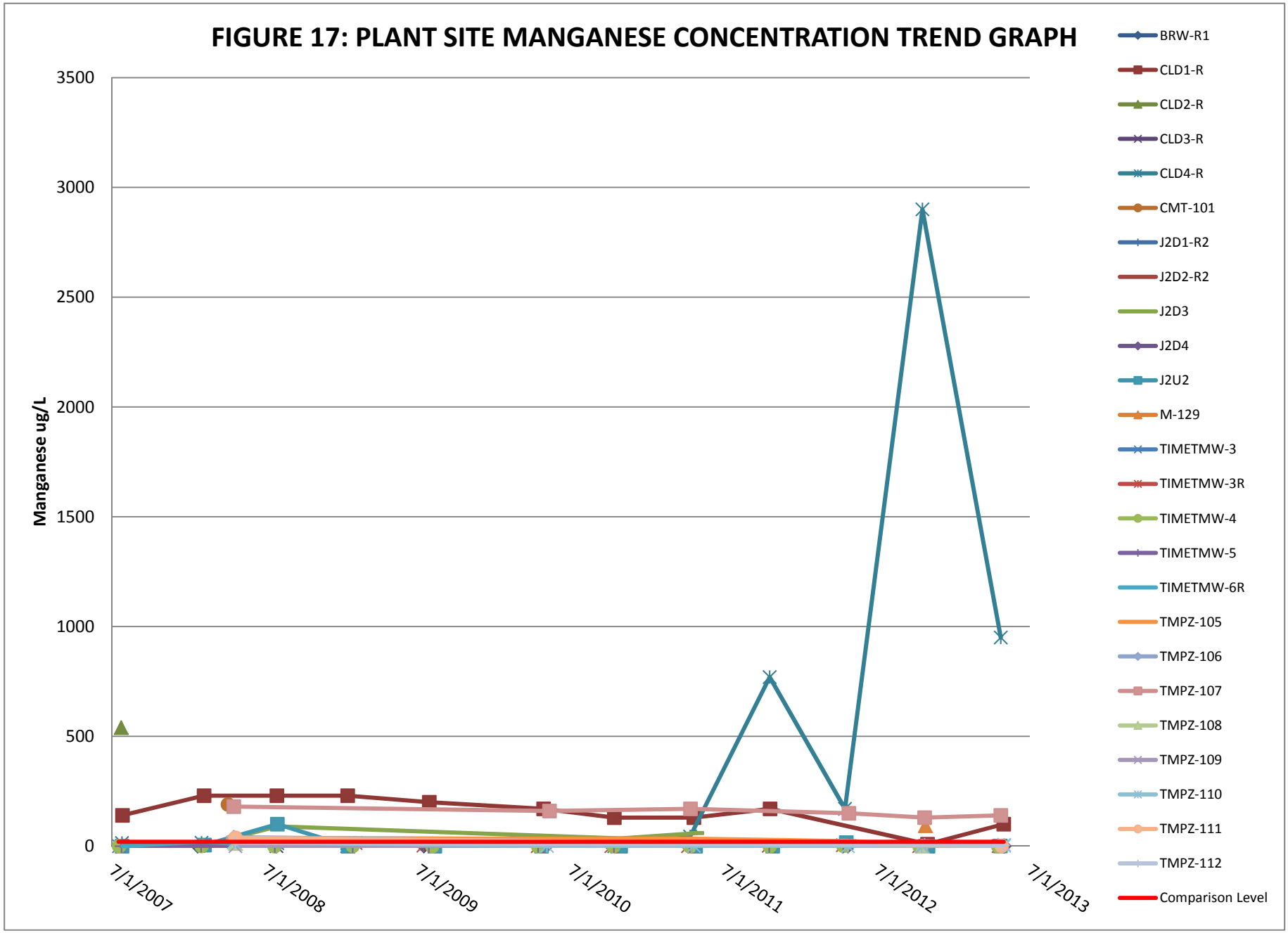
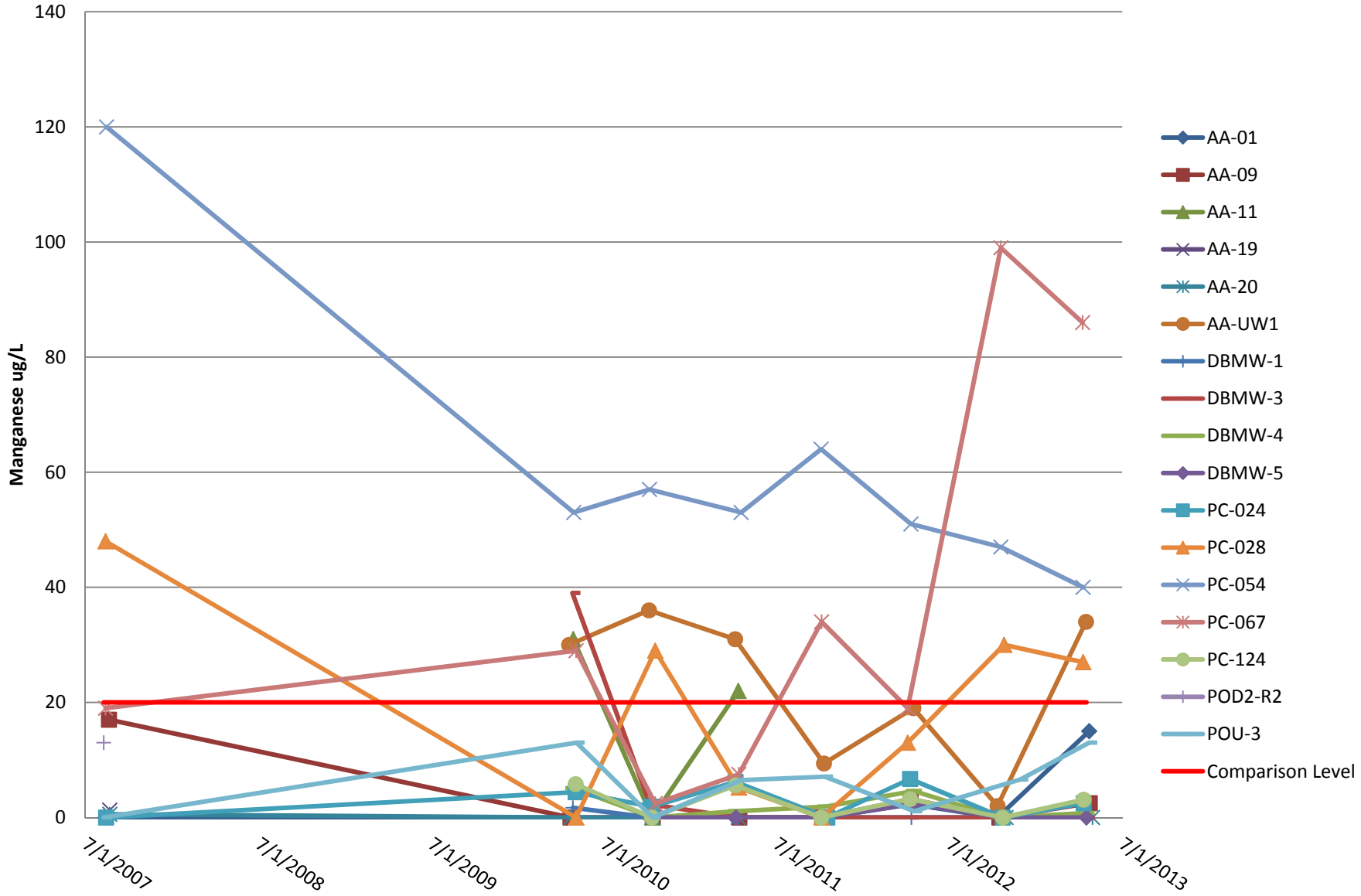


FIGURE 17: PLANT SITE MANGANESE CONCENTRATION TREND GRAPH
Manganese ug/L
3500
3000
2500
2000
1500
1000
500
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
CMT-101
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U2
M-129
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMPZ-105
TMPZ-106
TMPZ-107
TMPZ-108
TMPZ-109
TMPZ-110
TMPZ-111
TMPZ-112
Comparison Level

FIGURE 18: DOWNGRADIENT MANGANESE CONCENTRATION TREND GRAPH



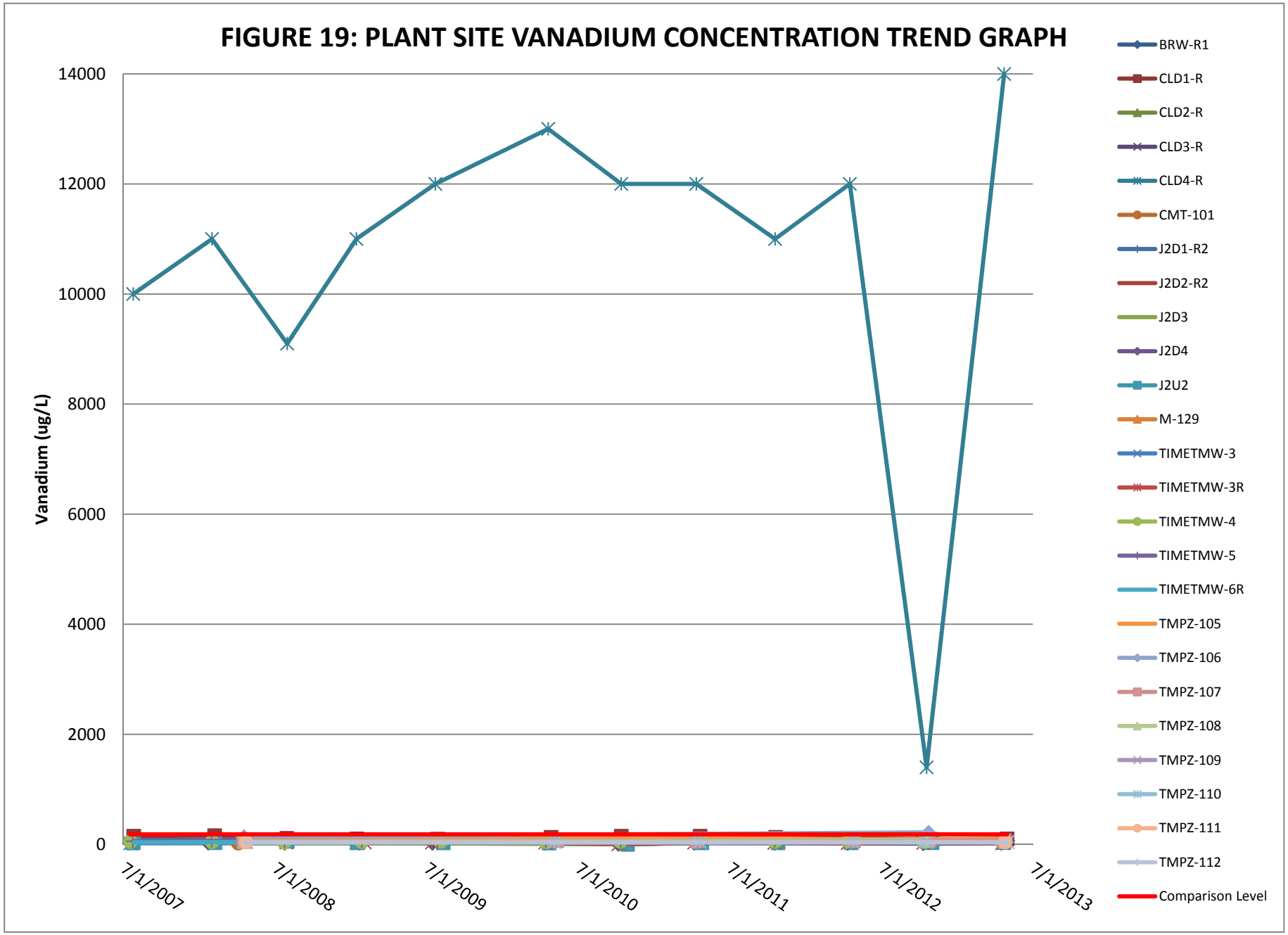


FIGURE 19: PLANT SITE VANADIUM CONCENTRATION TREND GRAPH
Vanadium (ug/L)
14000
12000
10000
8000
6000
4000
2000
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
CMT-101
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U2
M-129
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMPZ-105
TMPZ-106
TMPZ-107
TMPZ-108
TMPZ-109
TMPZ-110
TMPZ-111
TMPZ-112
Comparison Level

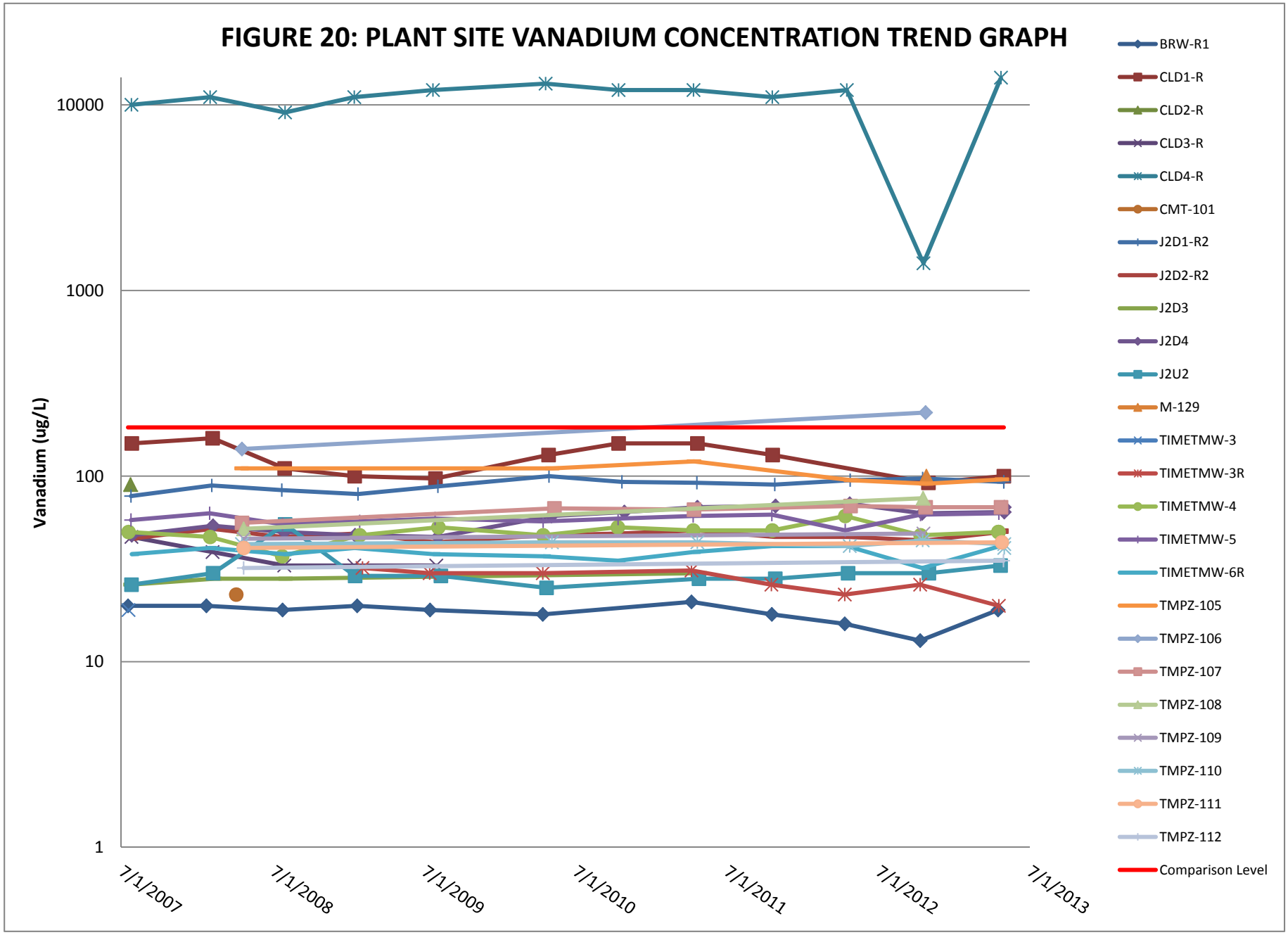
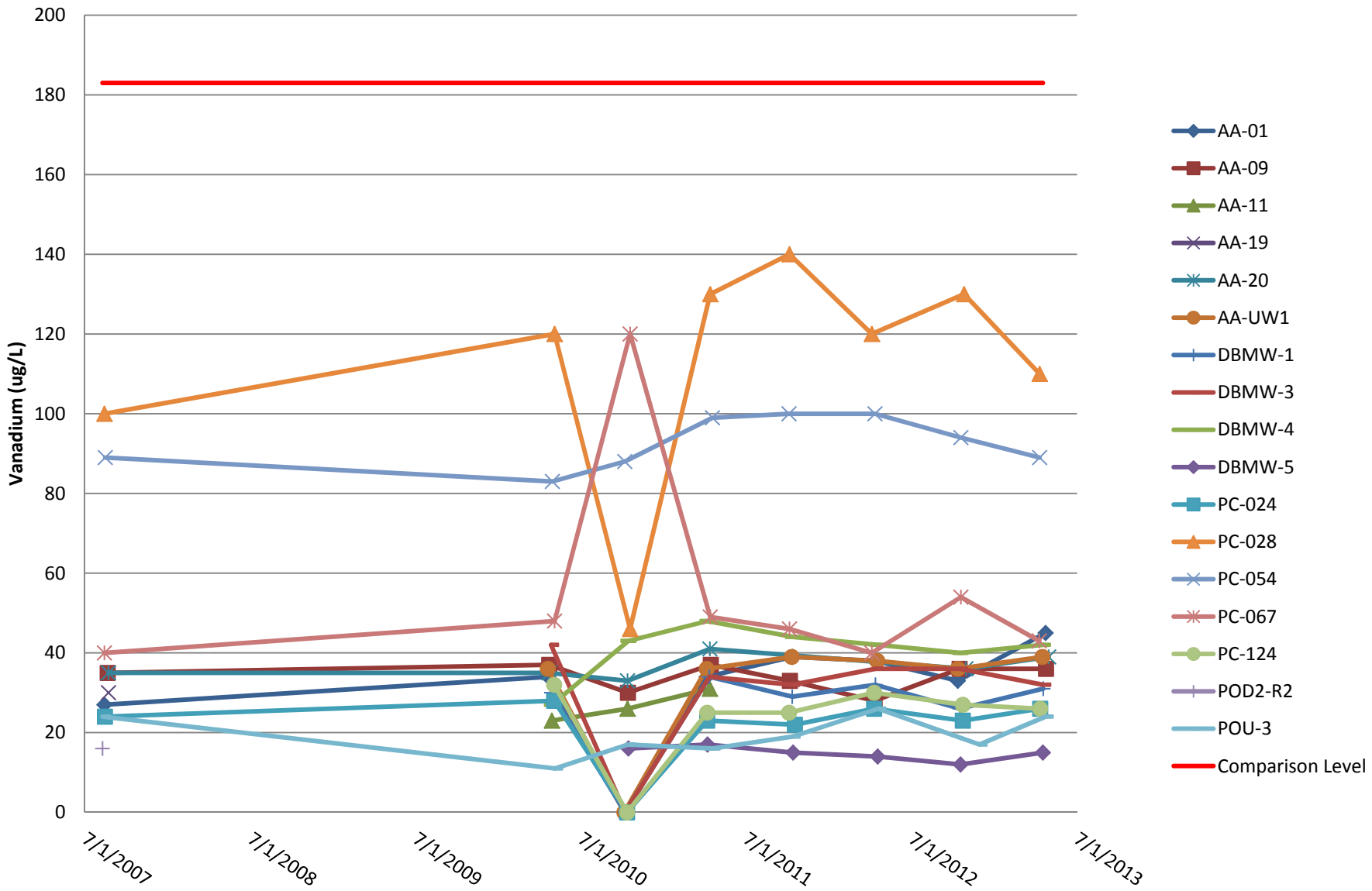


FIGURE 20: PLANT SITE VANADIUM CONCENTRATION TREND GRAPH
Vanadium (ug/L)
10000
1000
100
10
1
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
CMT-101
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U2
M-129
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMPZ-105
TMPZ-106
TMPZ-107
TMPZ-108
TMPZ-109
TMPZ-110
TMPZ-111
TMPZ-112
Comparison Level

FIGURE 21: DOWNGRADIENT VANADIUM CONCENTRATION TREND GRAPH



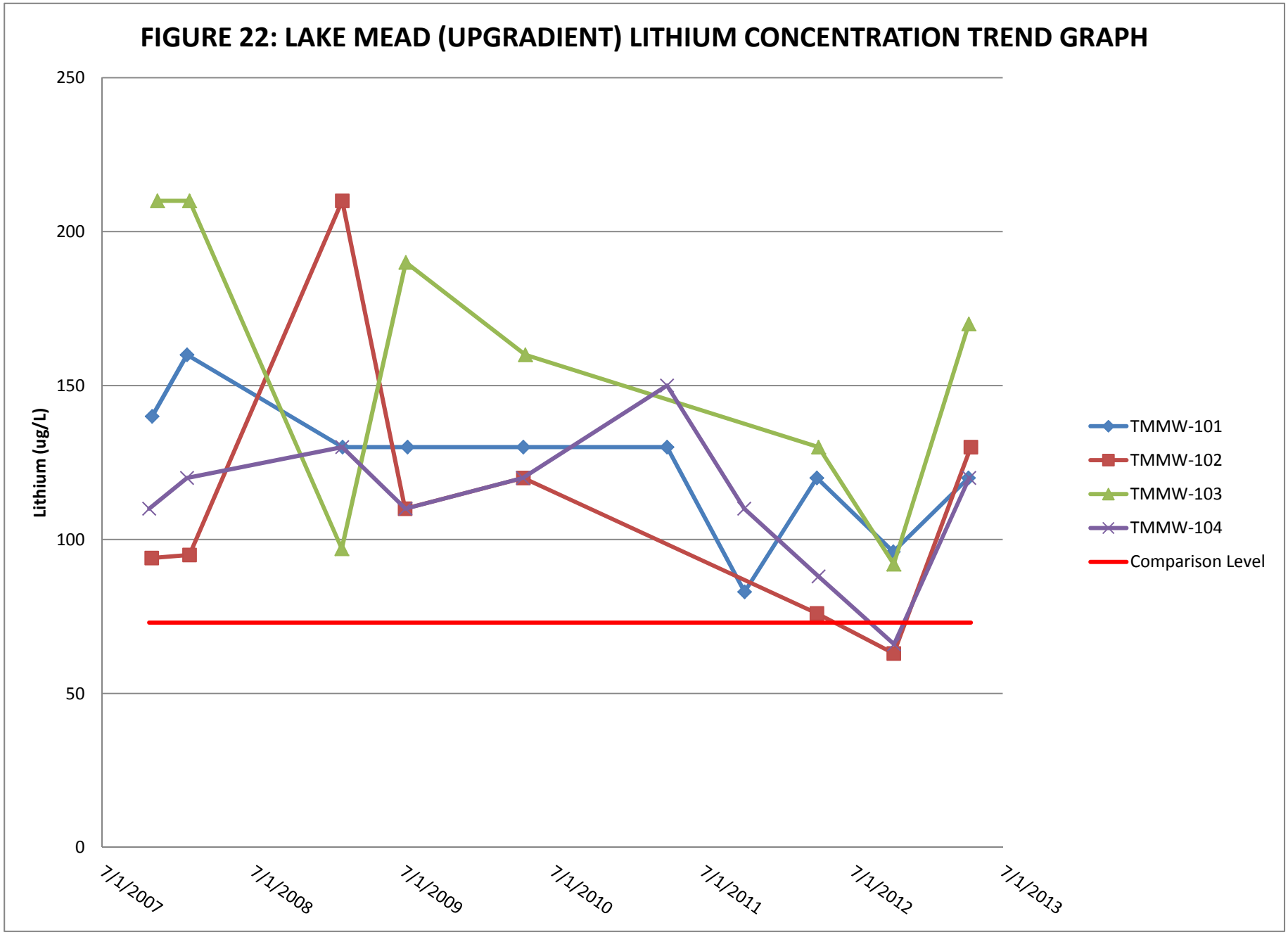


FIGURE 22: LAKE MEAD (UPGRADIENT) LITHIUM CONCENTRATION TREND GRAPH
Lithium (ug/L)
250
200
150
100
50
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
TMMW-101
TMMW-102
TMMW-103
TMMW-104
Comparison Level

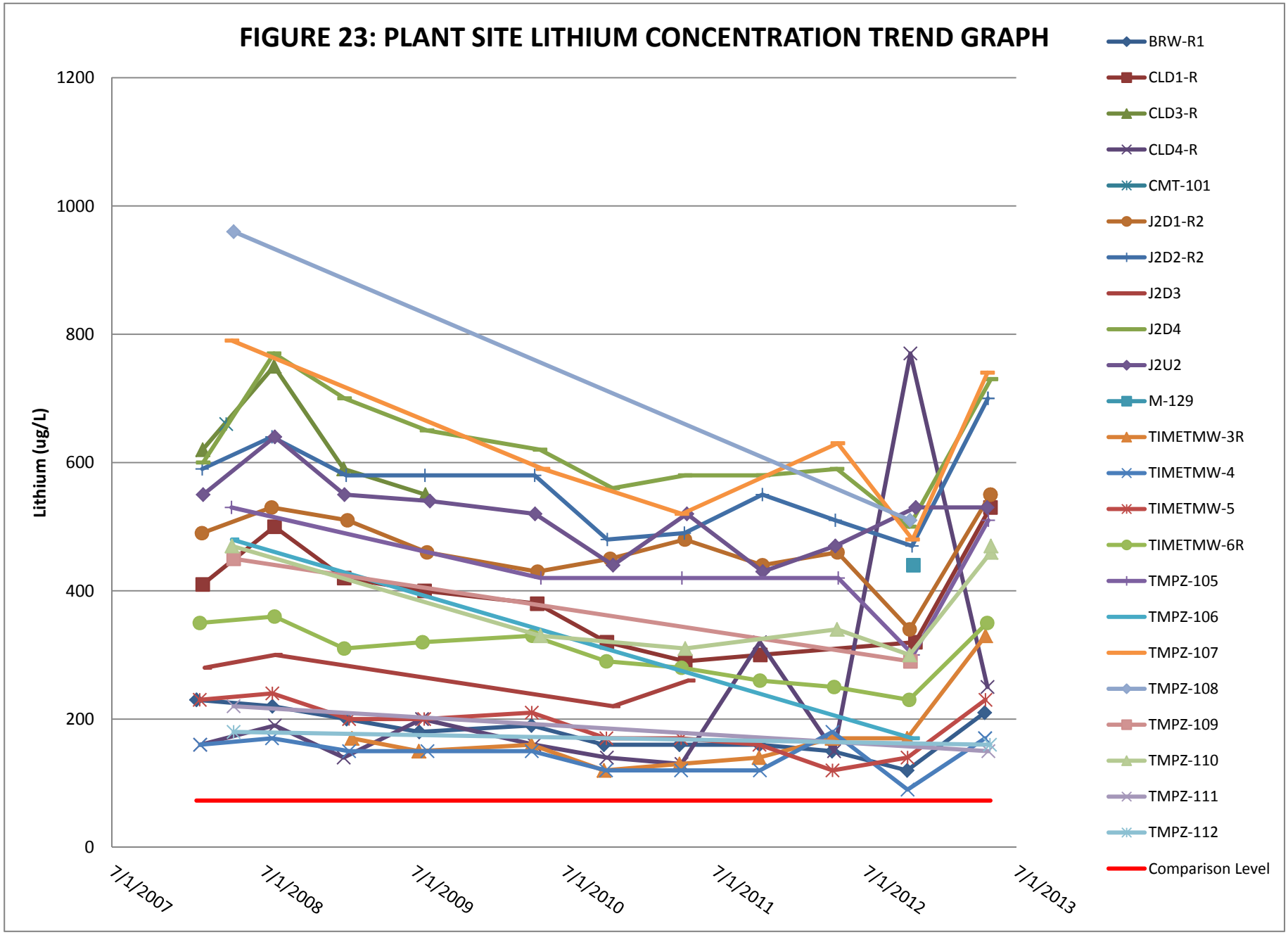


FIGURE 23: PLANT SITE LITHIUM CONCENTRATION TREND GRAPH
Lithium (ug/L)
1200
1000
800
600
400
200
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
BRW-R1
CLD1-R
CLD3-R
CLD4-R
CMT-101
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U2
M-129
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMPZ-105
TMPZ-106
TMPZ-107
TMPZ-108
TMPZ-109
TMPZ-110
TMPZ-111
TMPZ-112
Comparison Level

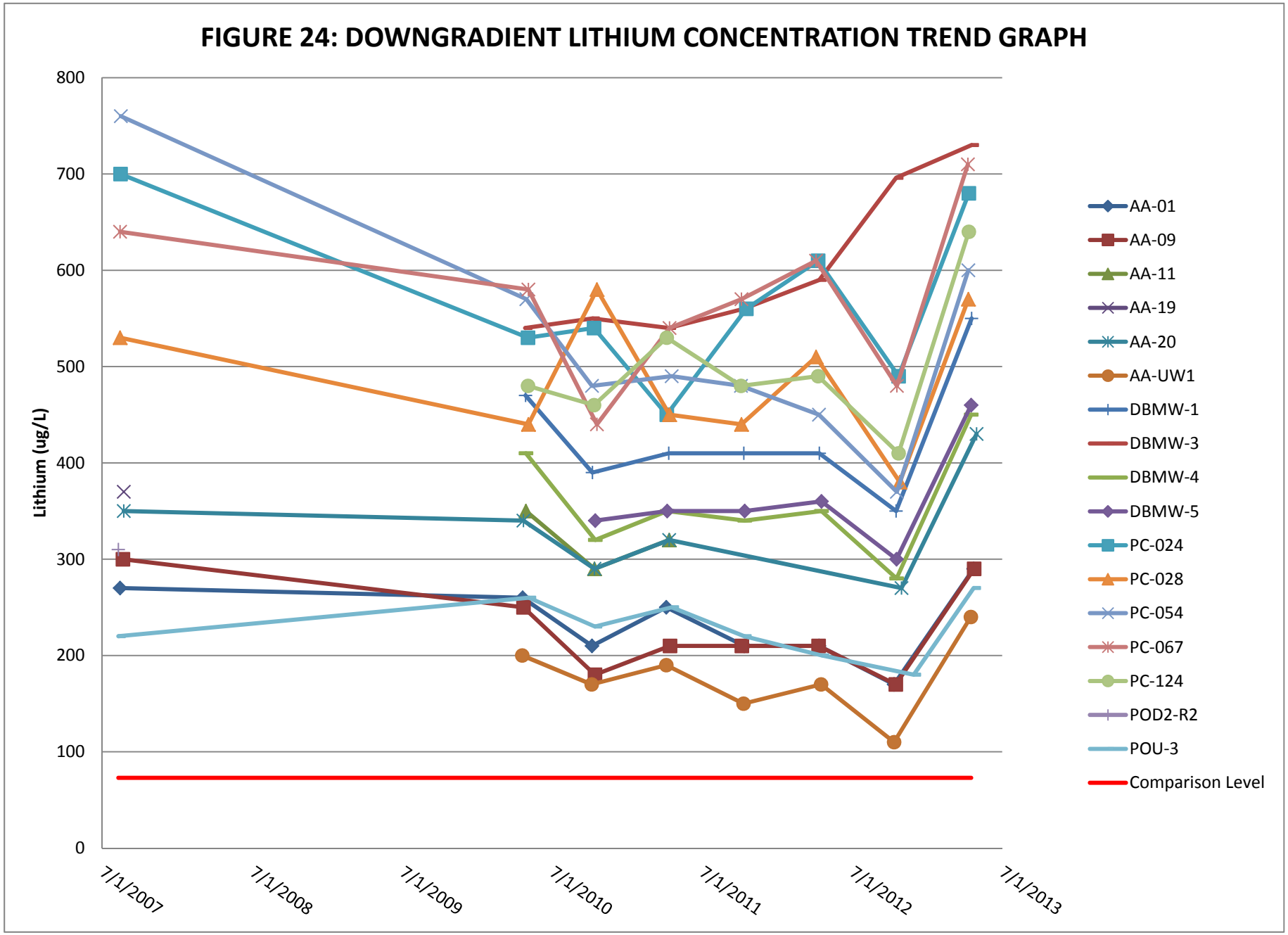


FIGURE 24: DOWNGRADIENT LITHIUM CONCENTRATION TREND GRAPH
Lithium (ug/L)
800
700
600
500
400
300
200
100
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
AA-01
AA-09
AA-11
AA-19
AA-20
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3
Comparison Level

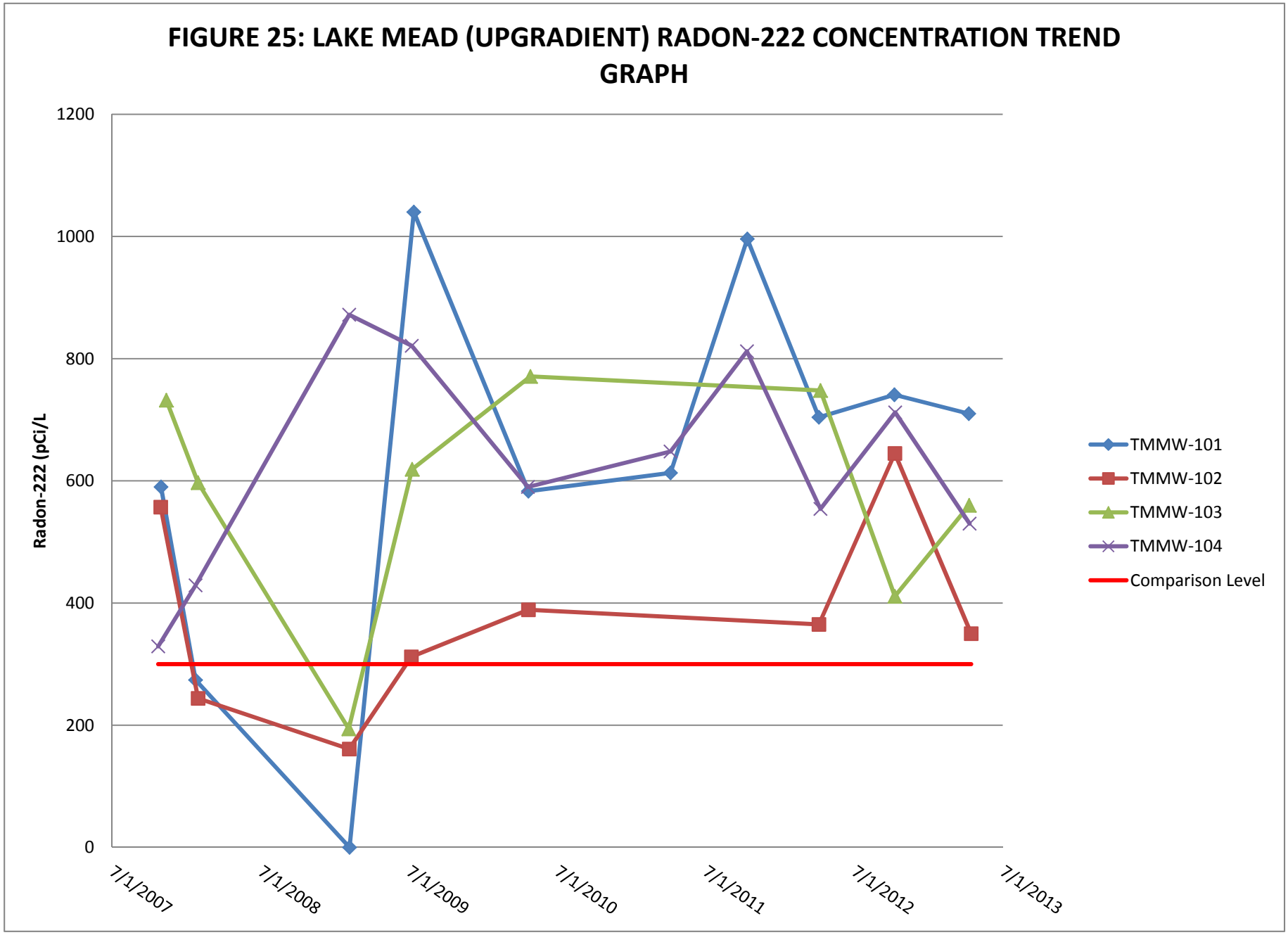


FIGURE 25: LAKE MEAD (UPGRADIENT) RADON-222 CONCENTRATION TREND GRAPH
Radon-222 (pCi/L
1200
1000
800
600
400
200
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
TMMW-101
TMMW-102
TMMW-103
TMMW-104
Comparison Level

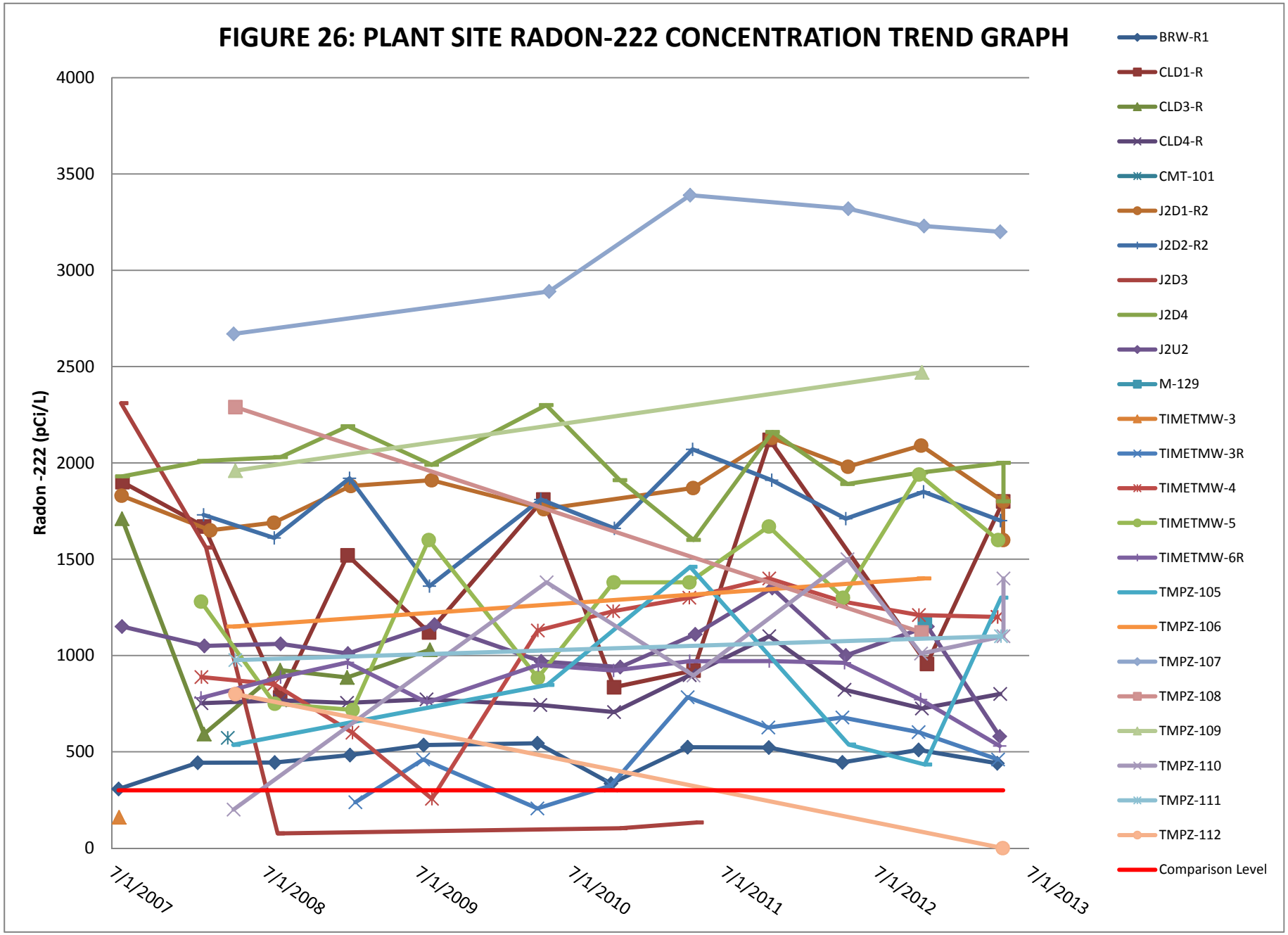


FIGURE 26: PLANT SITE RADON-222 CONCENTRATION TREND GRAPH
Radon -222 (pCi/L)
4000
3500
3000
2500
2000
1500
1000
500
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
BRW-R1
CLD1-R
CLD3-R
CLD4-R
CMT-101
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U2
M-129
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMPZ-105
TMPZ-106
TMPZ-107
TMPZ-108
TMPZ-109
TMPZ-110
TMPZ-111
TMPZ-112
Comparison Level

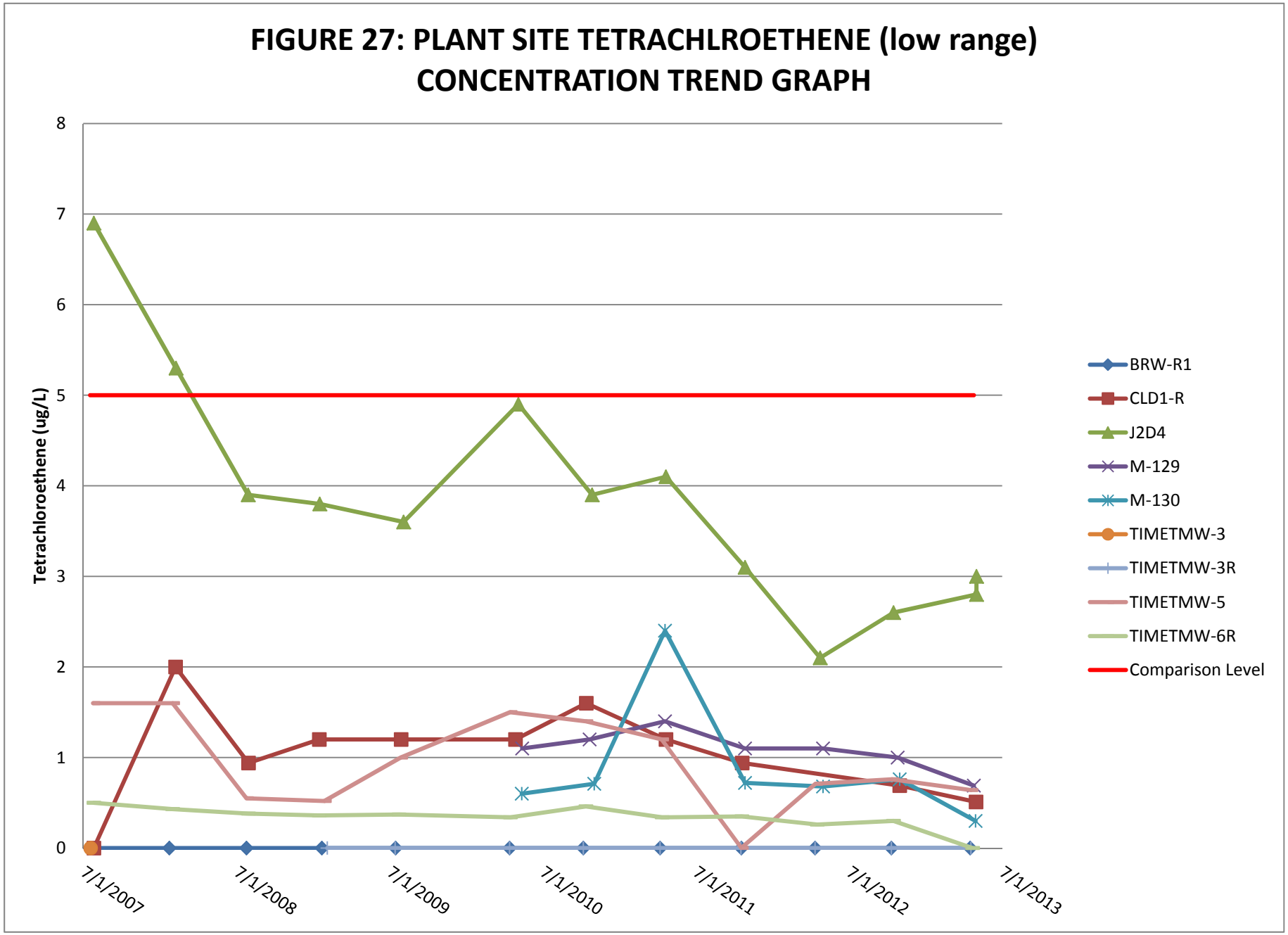


FIGURE 27: PLANT SITE TETRACHLROETHENE (low range)
CONCENTRATION TREND GRAPH
Tetrachloroethene (ug/L)
8
7
6
5
4
3
2
1
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
BRW-R1
CLD1-R
J2D4
M-129
M-130
TIMETMW-3
TIMETMW-3R
TIMETMW-5
TIMETMW-6R
Comparison Level

FIGURE 28: PLANT SITE TETRACHLROETHENE (high range) CONCENTRATION TREND GRAPH

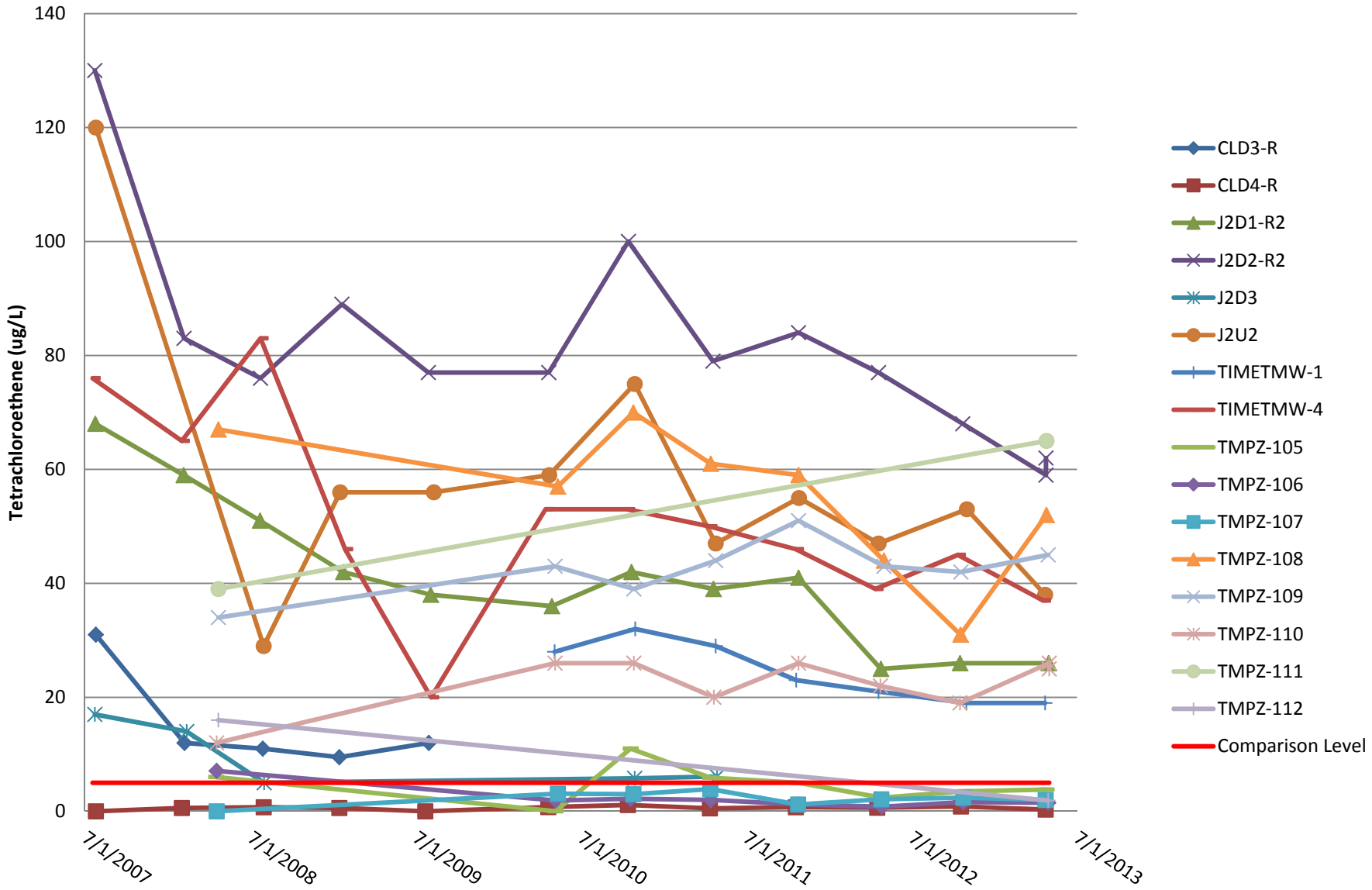
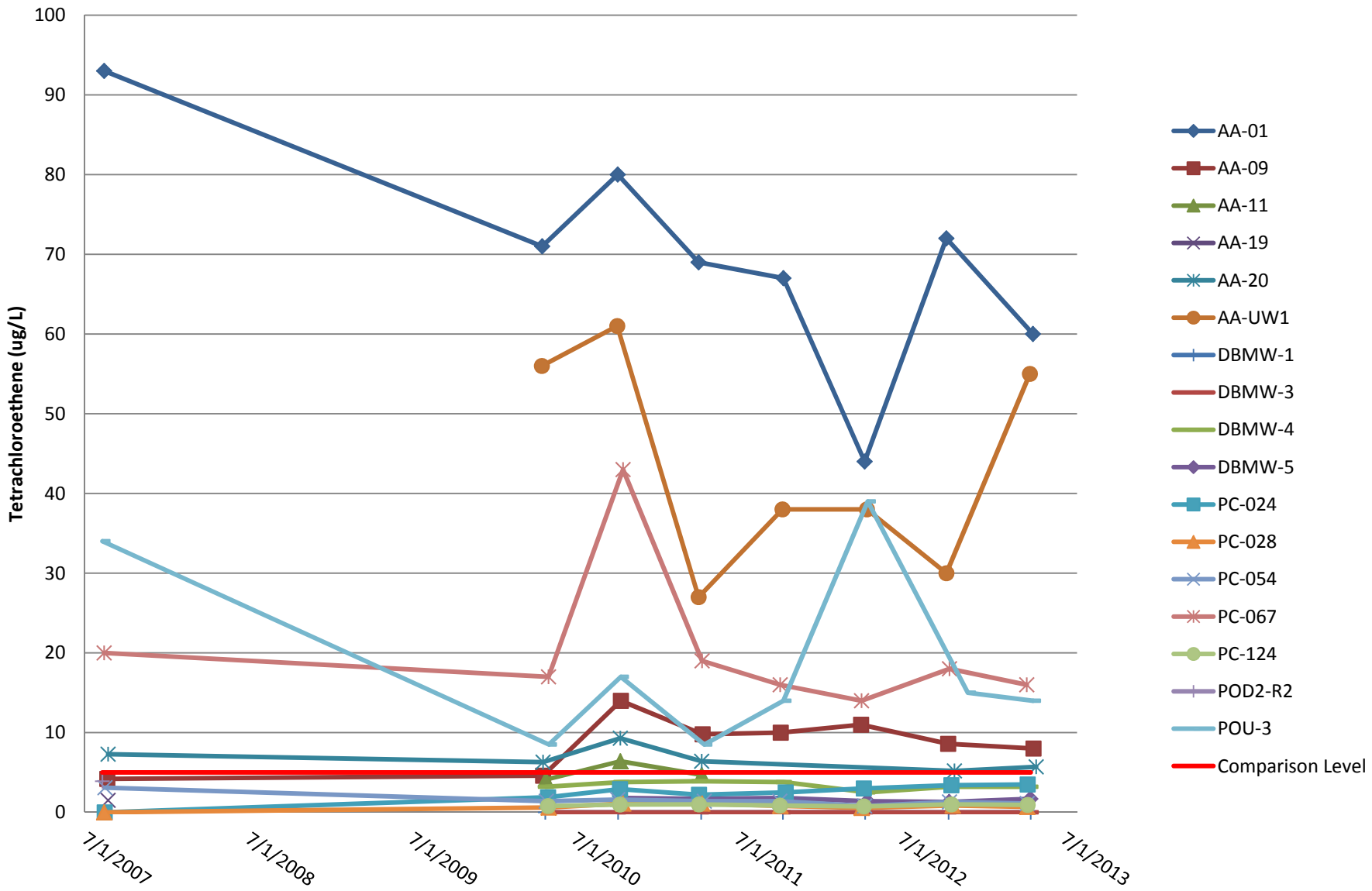


FIGURE 29: DOWNGRADIENT TETRACHLROETHENE CONCENTRATION TREND GRAPH



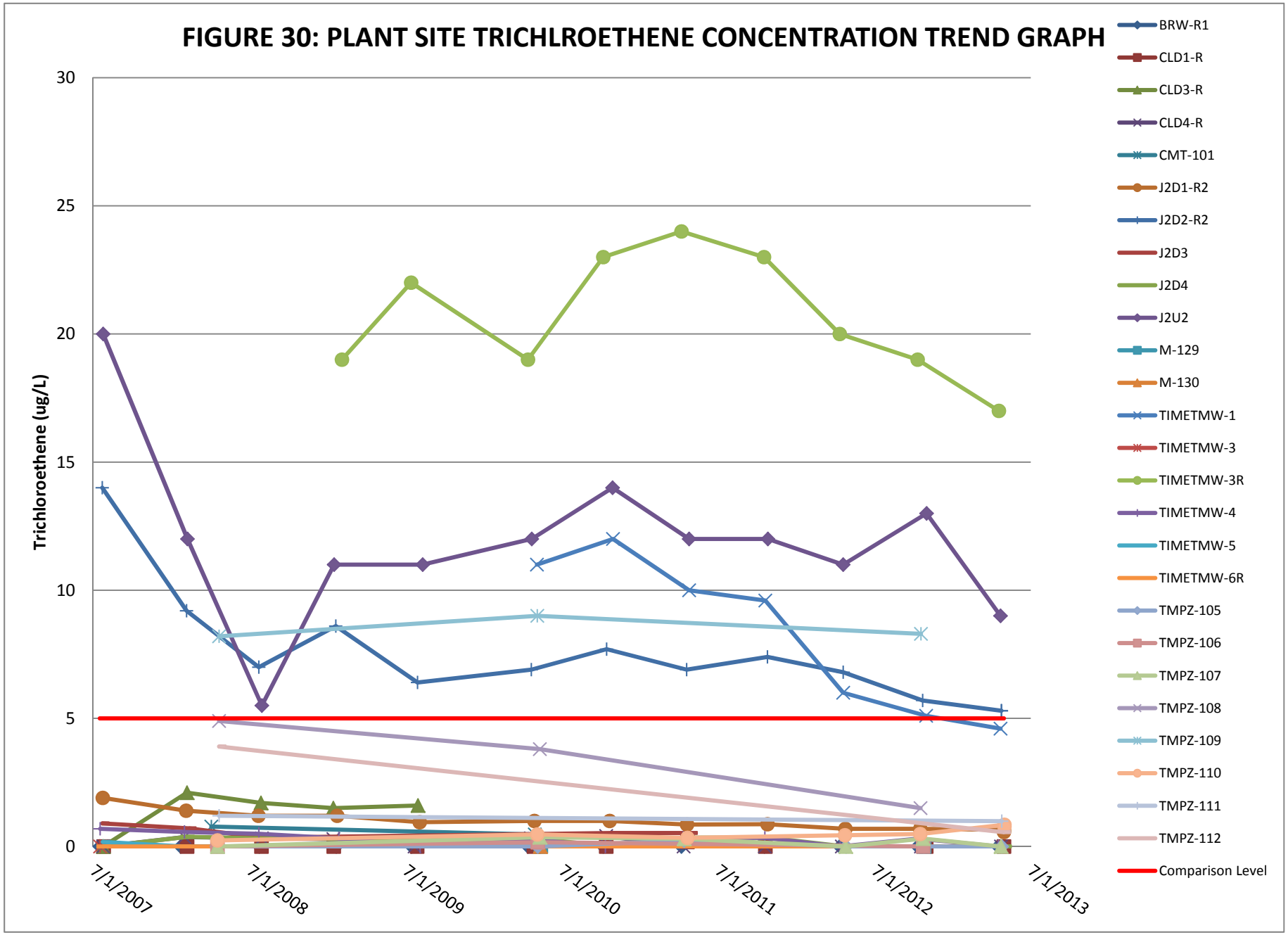


FIGURE 30: PLANT SITE TRICHLROETHENE CONCENTRATION TREND GRAPH
Trichloroethene (ug/L)
30
25
20
15
10
5
0
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
7/1/2012
7/1/2013
BRW-R1
CLD1-R
CLD3-R
CLD4-R
CMT-101
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U2
M-129
M-130
TIMETMW-1
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMPZ-105
TMPZ-106
TMPZ-107
TMPZ-108
TMPZ-109
TMPZ-110
TMPZ-111
TMPZ-112
Comparison Level

FIGURE 31: LAKE MEAD (UPGRADIENT) TOTAL TRIHALOMETHANES (low range) CONCENTRATION TREND GRAPH

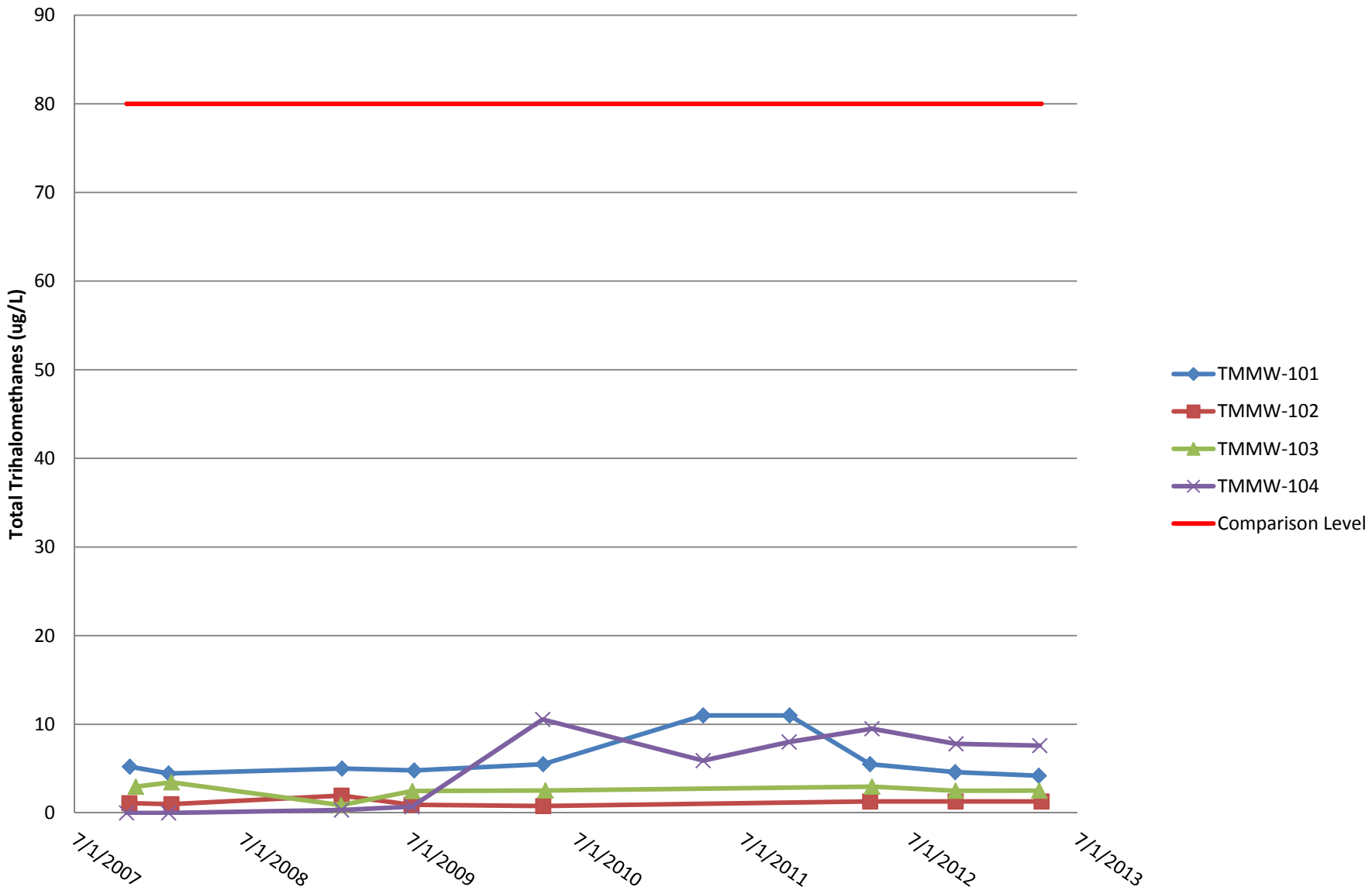


FIGURE 32: PLANT SITE TOTAL TRIHALOMETHANES (low range) CONCENTRATION TREND GRAPH

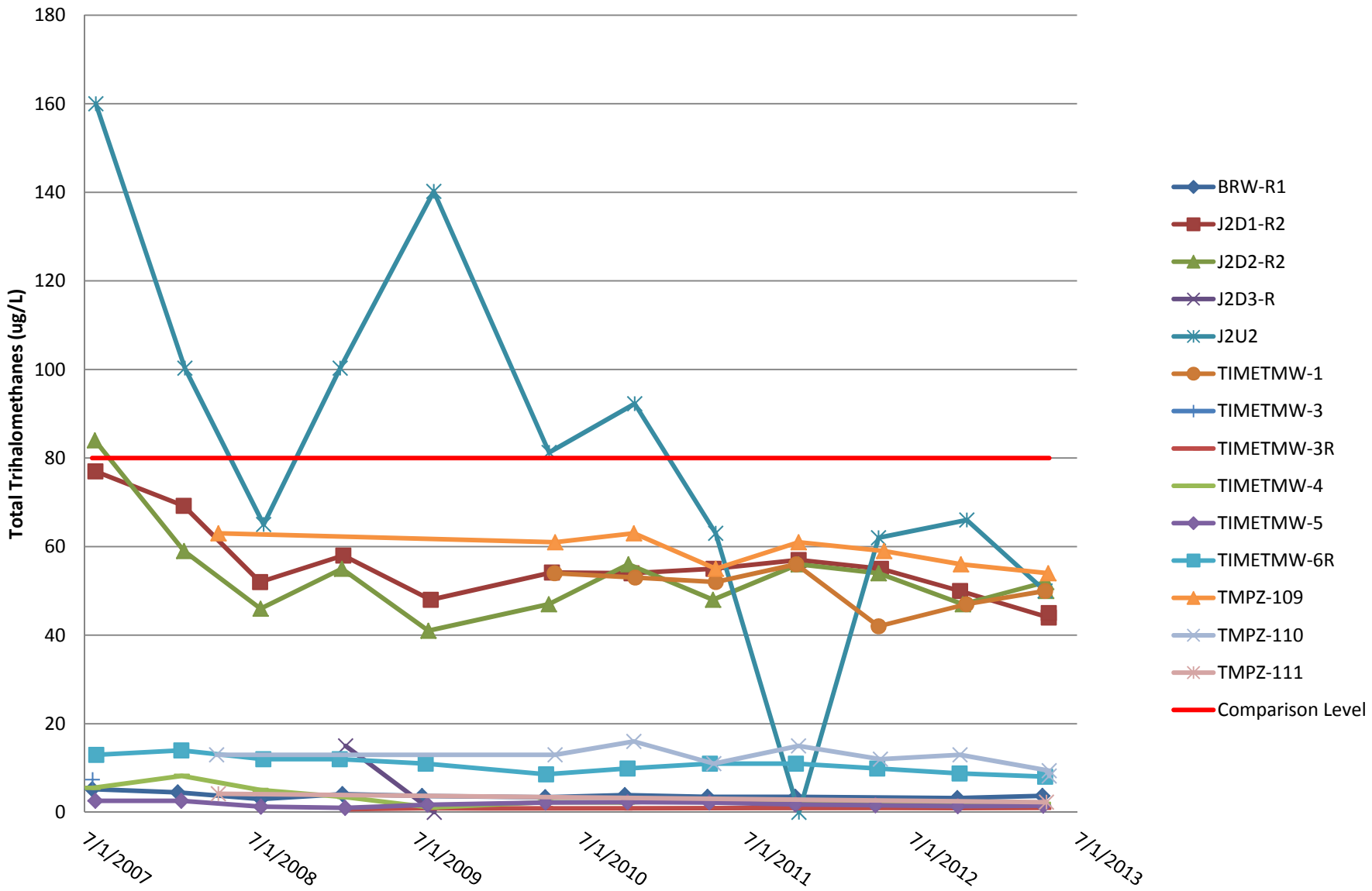


FIGURE 33: PLANT SITE TOTAL TRIHALOMETHANES (high range) CONCENTRATION TREND GRAPH

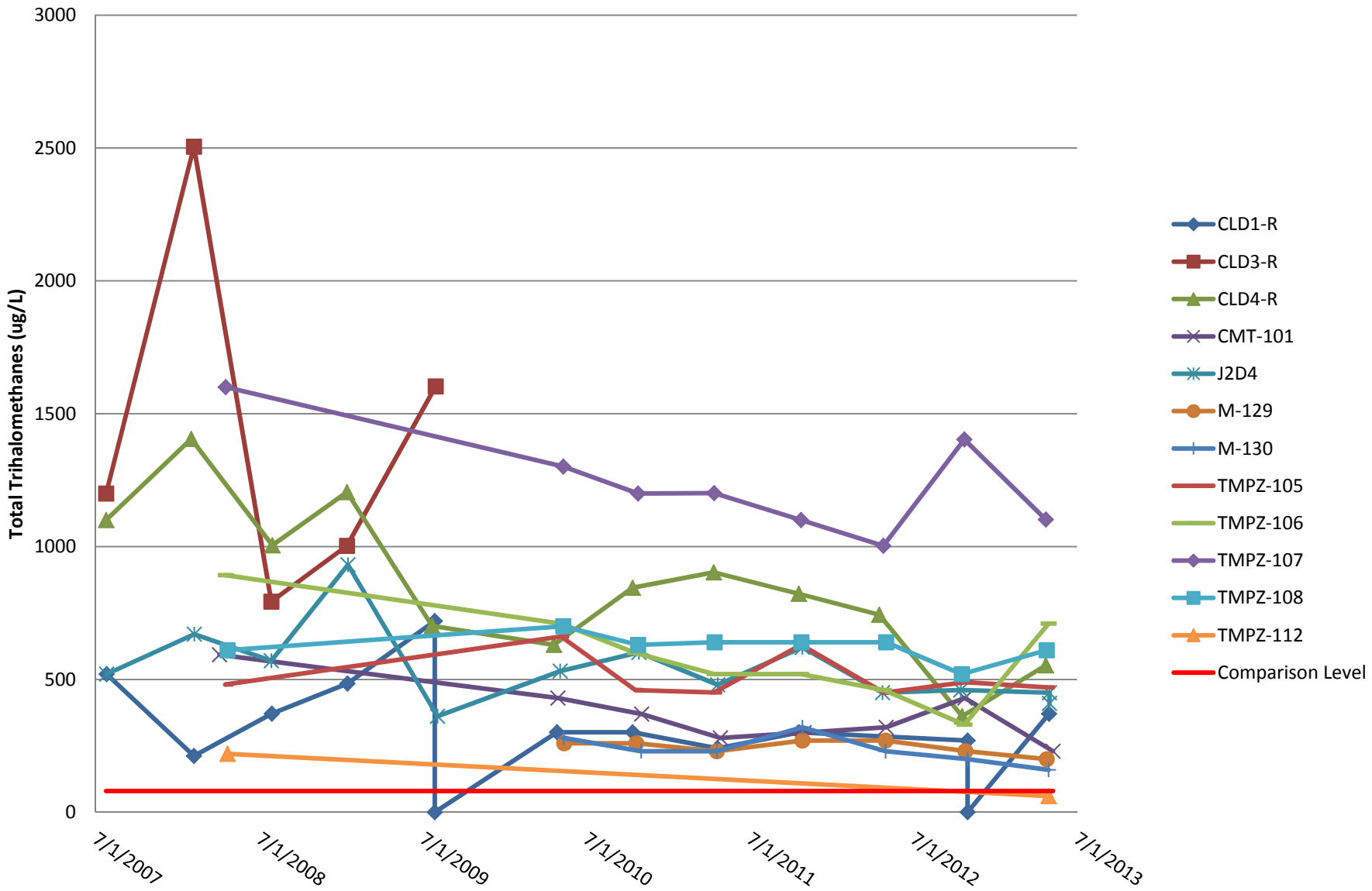
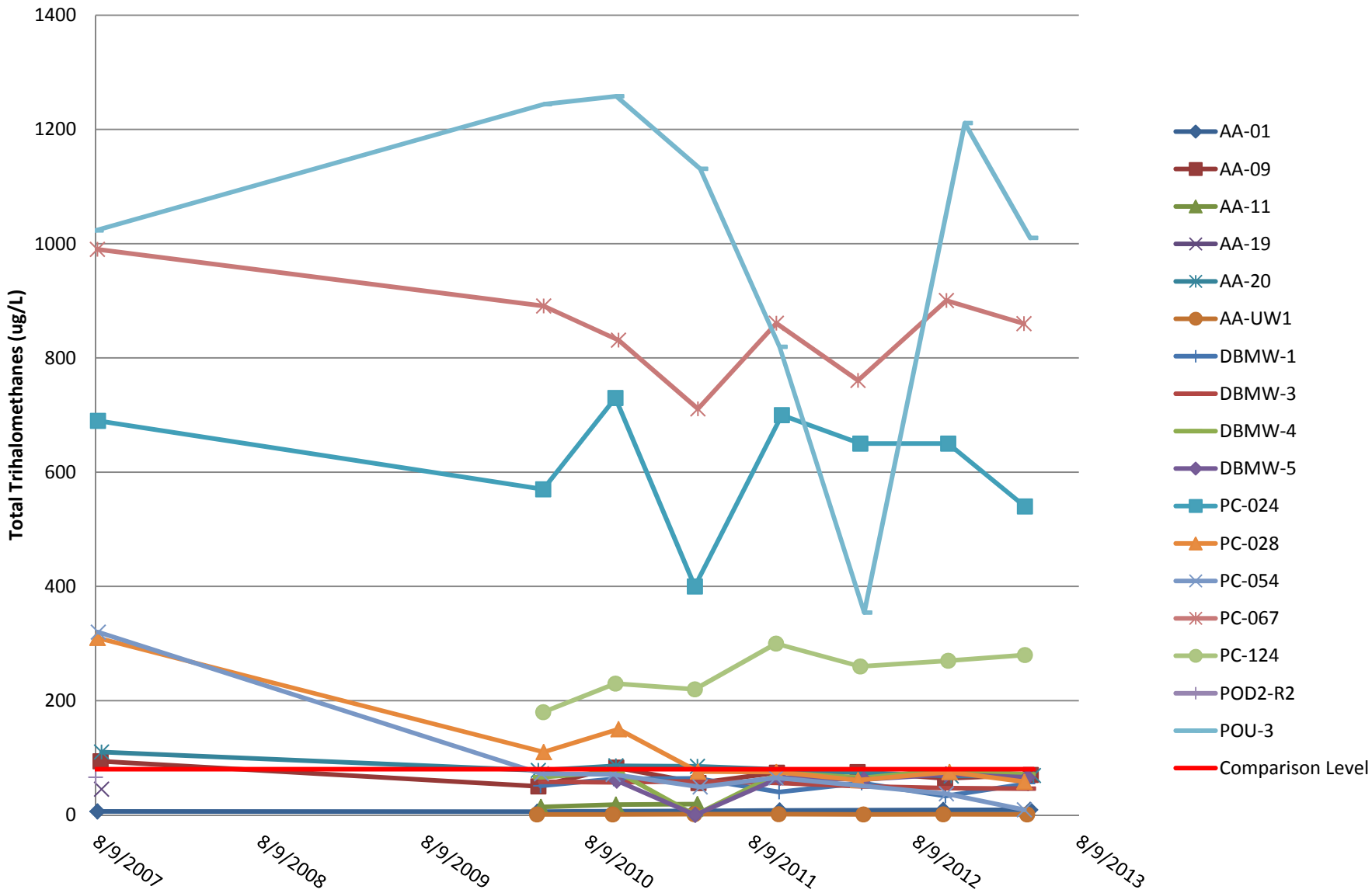
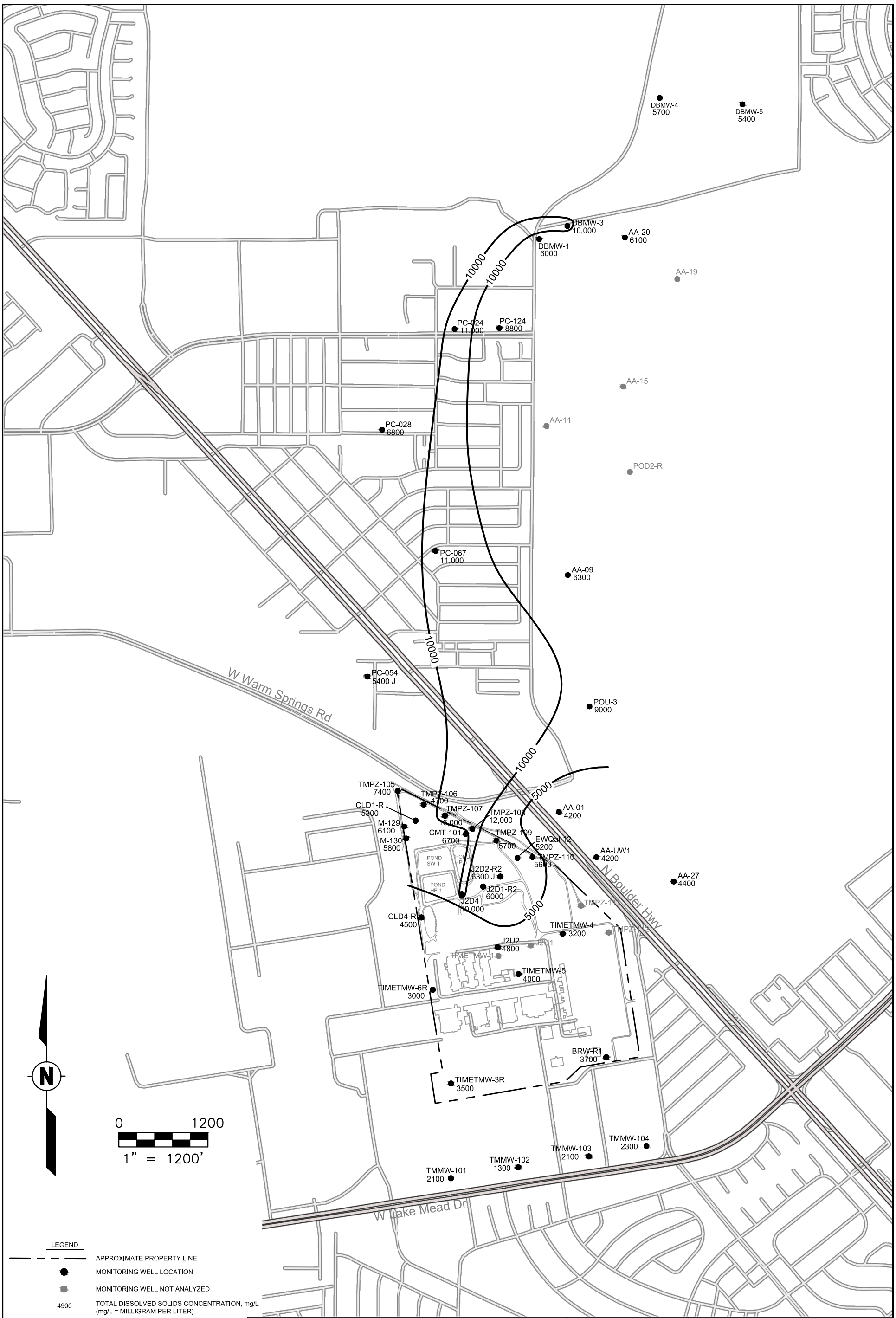


FIGURE 34: DOWNGRADIENT TOTAL TRIHALOMETHANES CONCENTRATION TREND GRAPH



Appendix E

Isoconcentration Maps



LEGEND

APPROXIMATE PROPERTY LINE

MONITORING WELL LOCATION

MONITORING WELL NOT ANALYZED

4900 TOTAL DISSOLVED SOLIDS CONCENTRATION, mg/L (mg/L = MILLIGRAM PER LITER)

5000 TOTAL DISSOLVED SOLIDS CONTOUR, mg/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

2) THE SCREENING LEVEL USED FOR TOTAL DISSOLVED SOLIDS IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE BCL FOR TOTAL DISSOLVED SOLIDS IS 1900 mg/L.

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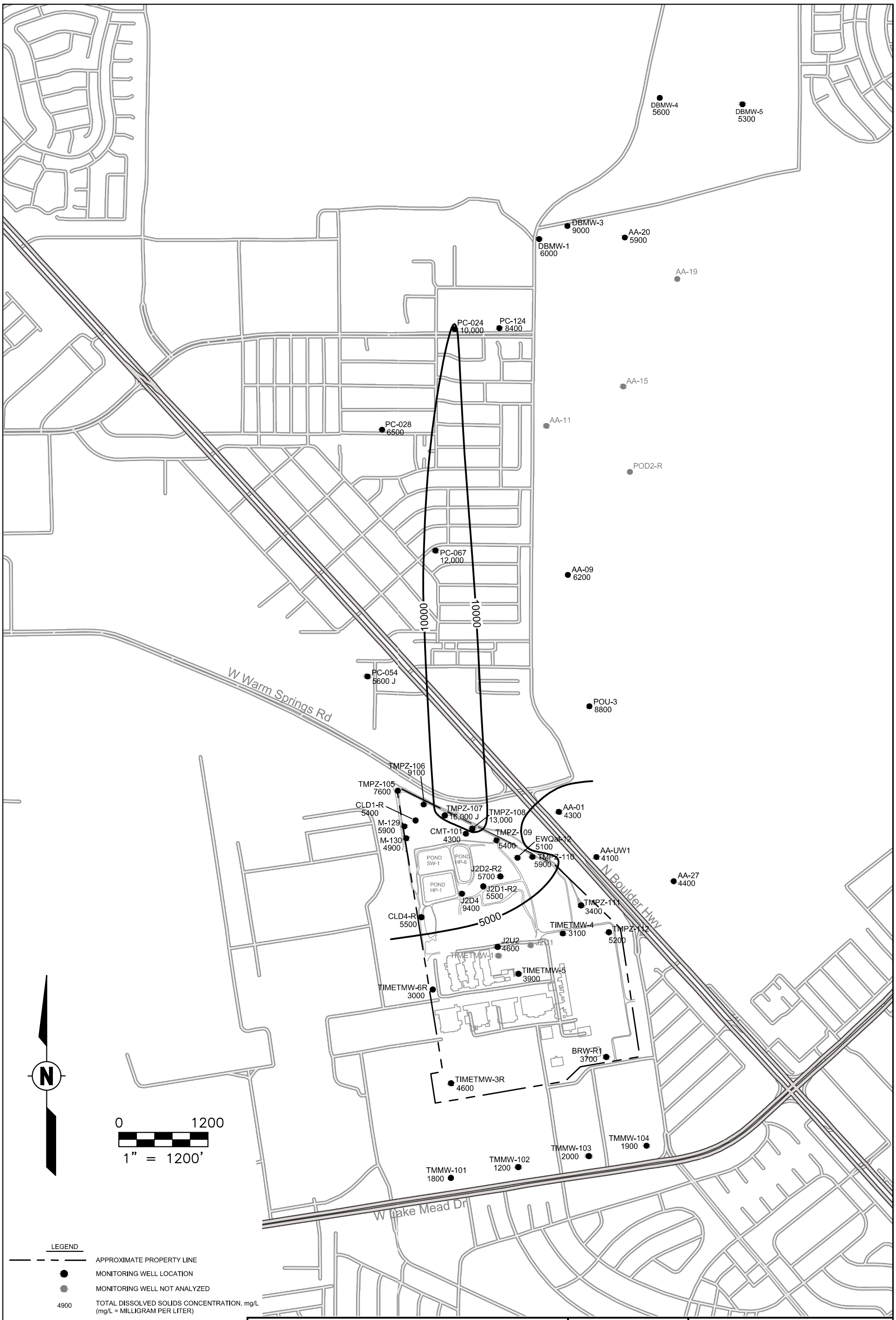
2013 ANNUAL GROUNDWATER MONITORING REPORT

TOTAL DISSOLVED SOLIDS ISOCONCENTRATION MAP
2ND SEMESTER 2012

October 2013 Fig. 1



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 4900 — TOTAL DISSOLVED SOLIDS CONCENTRATION, mg/L (mg/L = MILLIGRAM PER LITER)
- 5000 — TOTAL DISSOLVED SOLIDS CONTOUR, mg/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR TOTAL DISSOLVED SOLIDS IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE BCL FOR TOTAL DISSOLVED SOLIDS IS 1900 mg/L.

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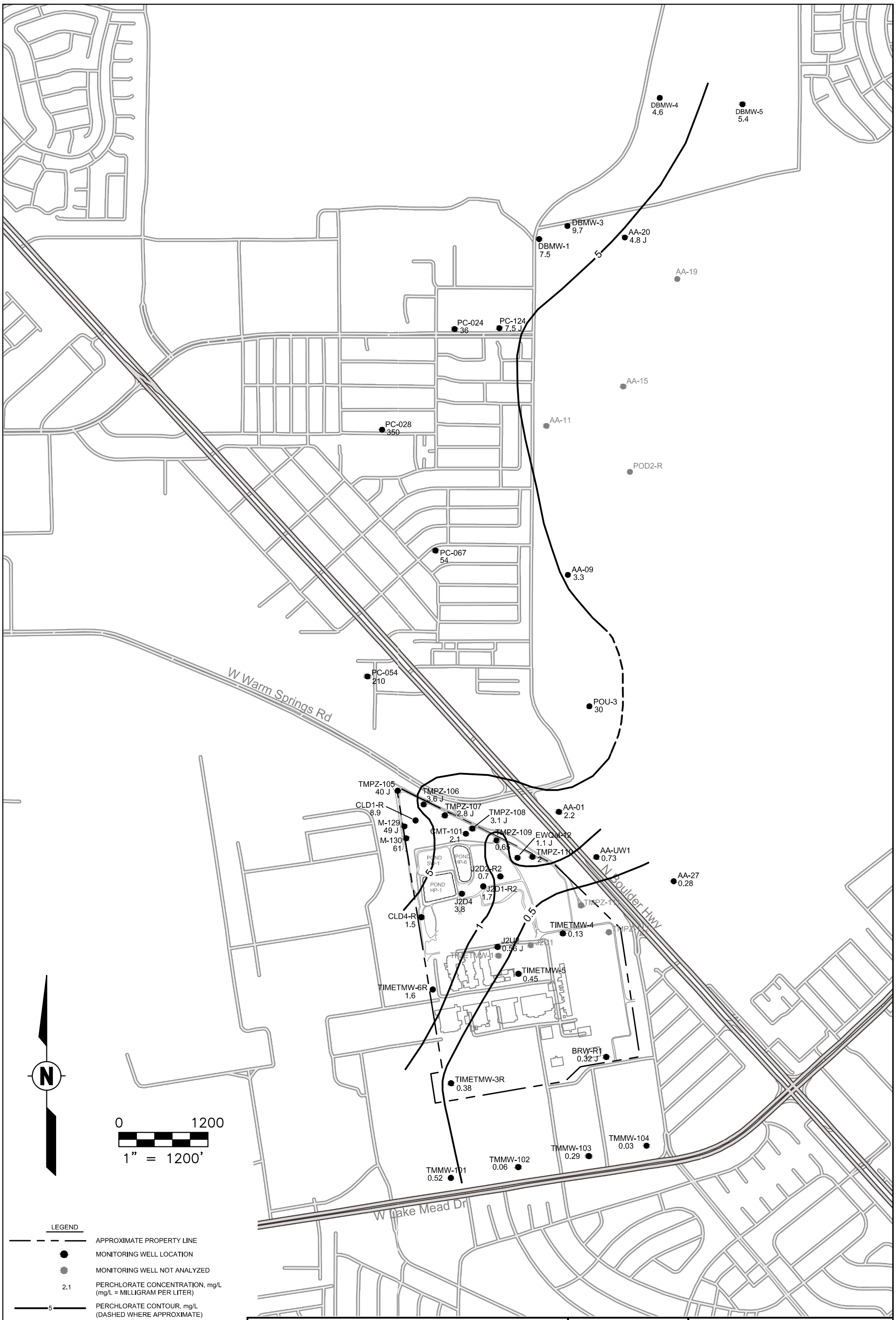
2013 ANNUAL GROUNDWATER MONITORING REPORT
TOTAL DISSOLVED SOLIDS ISOCONCENTRATION MAP
1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 2



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 2.1 PERCHLORATE CONCENTRATION, mg/L (mg/L = MILLIGRAM PER LITER)
- 5 PERCHLORATE CONTOUR, mg/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) 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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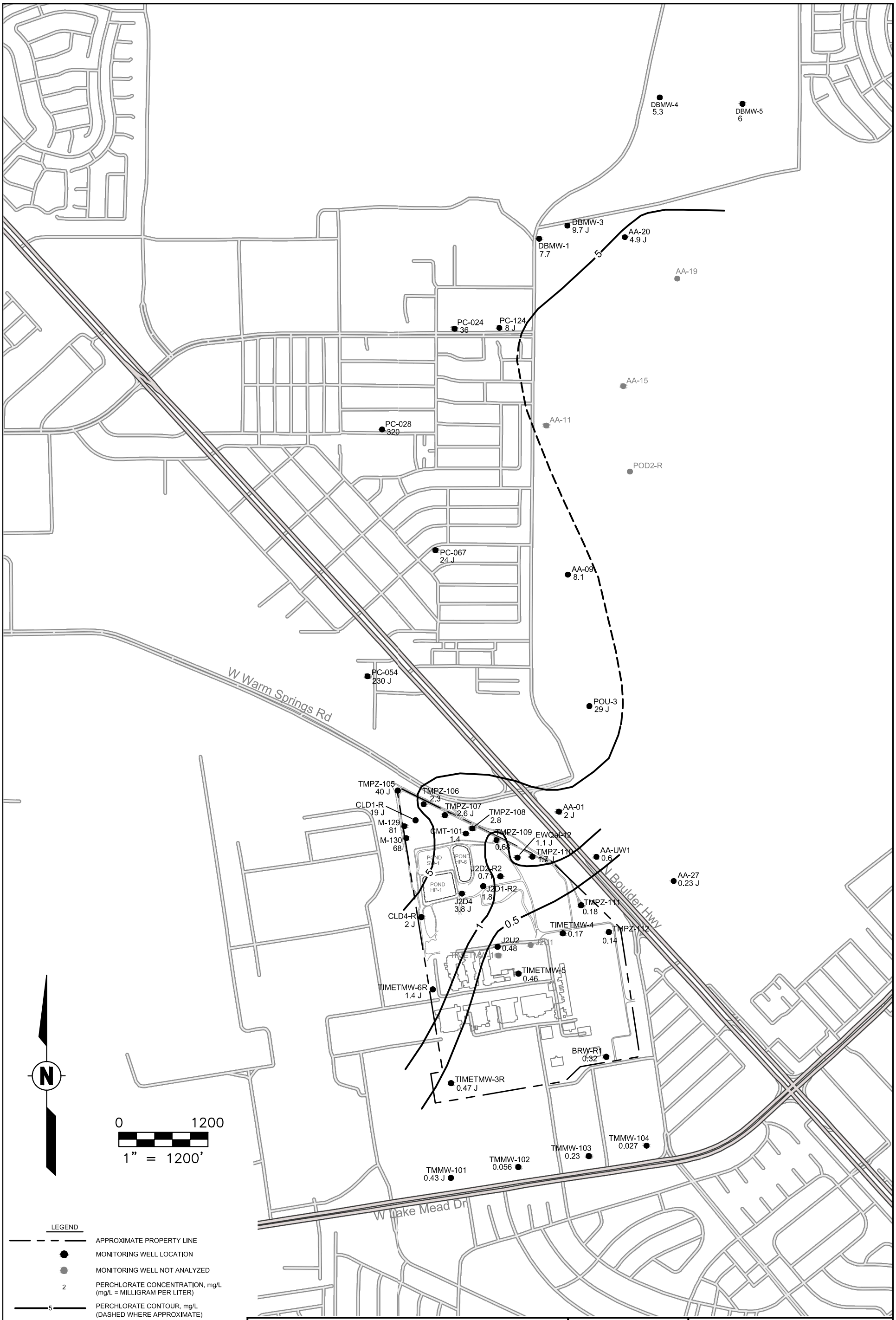
2013 ANNUAL GROUNDWATER MONITORING REPORT

PERCHLORATE ISOCONCENTRATION MAP, 2ND SEMESTER 2012

October 2013

Fig. 3



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 2 — PERCHLORATE CONCENTRATION, mg/L (mg/L = MILLIGRAM PER LITER)
- 5 — PERCHLORATE CONTOUR, mg/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

2) 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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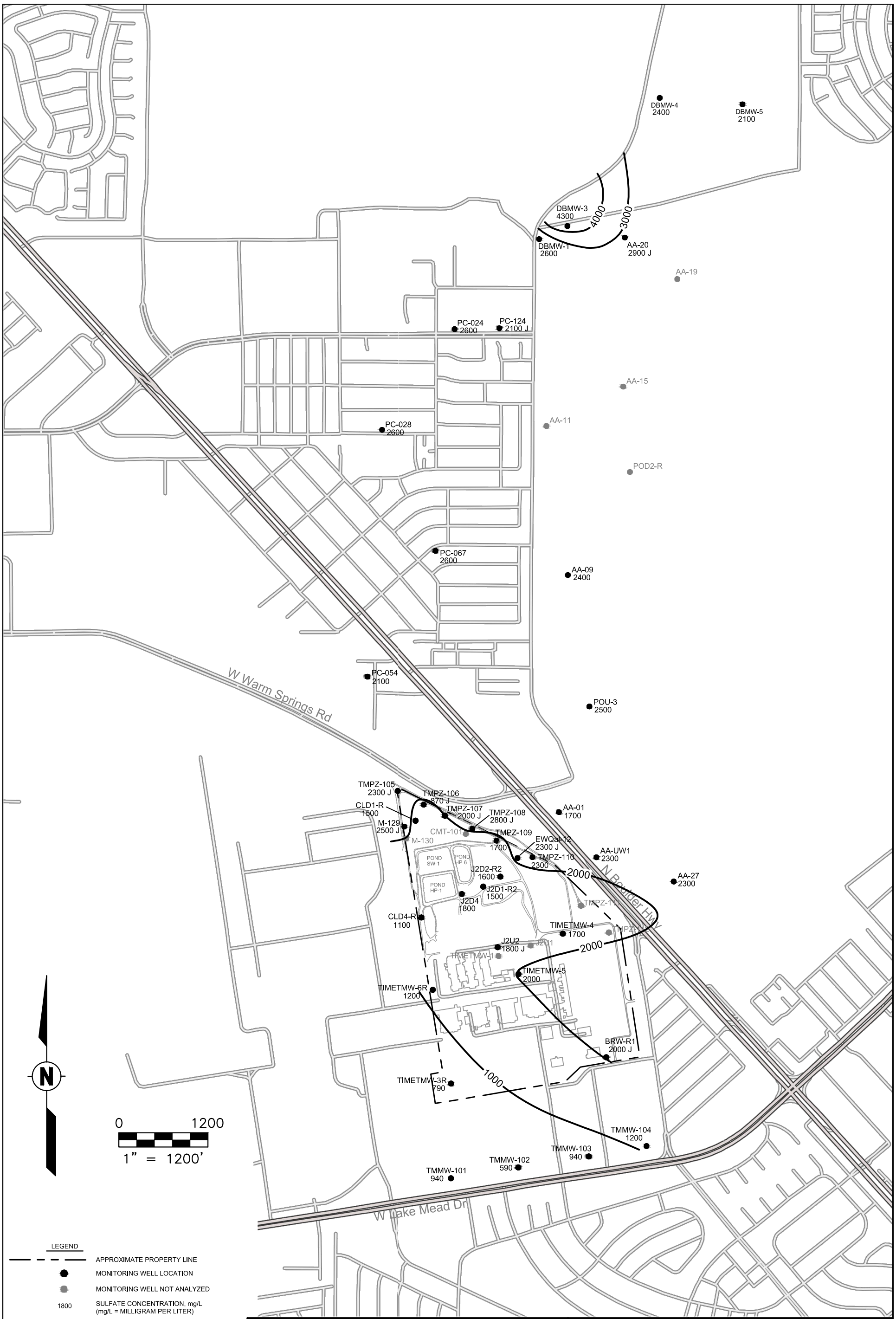
2013 ANNUAL GROUNDWATER MONITORING REPORT

PERCHLORATE ISOCONCENTRATION MAP, 1ST SEMESTER 2013

October 2013

Fig. 4



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 1800 — SULFATE CONCENTRATION, mg/L (mg/L = MILLIGRAM PER LITER)
- 2500 — SULFATE CONTOUR, mg/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR SULFATE IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR SULFATE IS 250 mg/L.

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SULFATE ISOCONCENTRATION MAP, 2ND SEMESTER 2012

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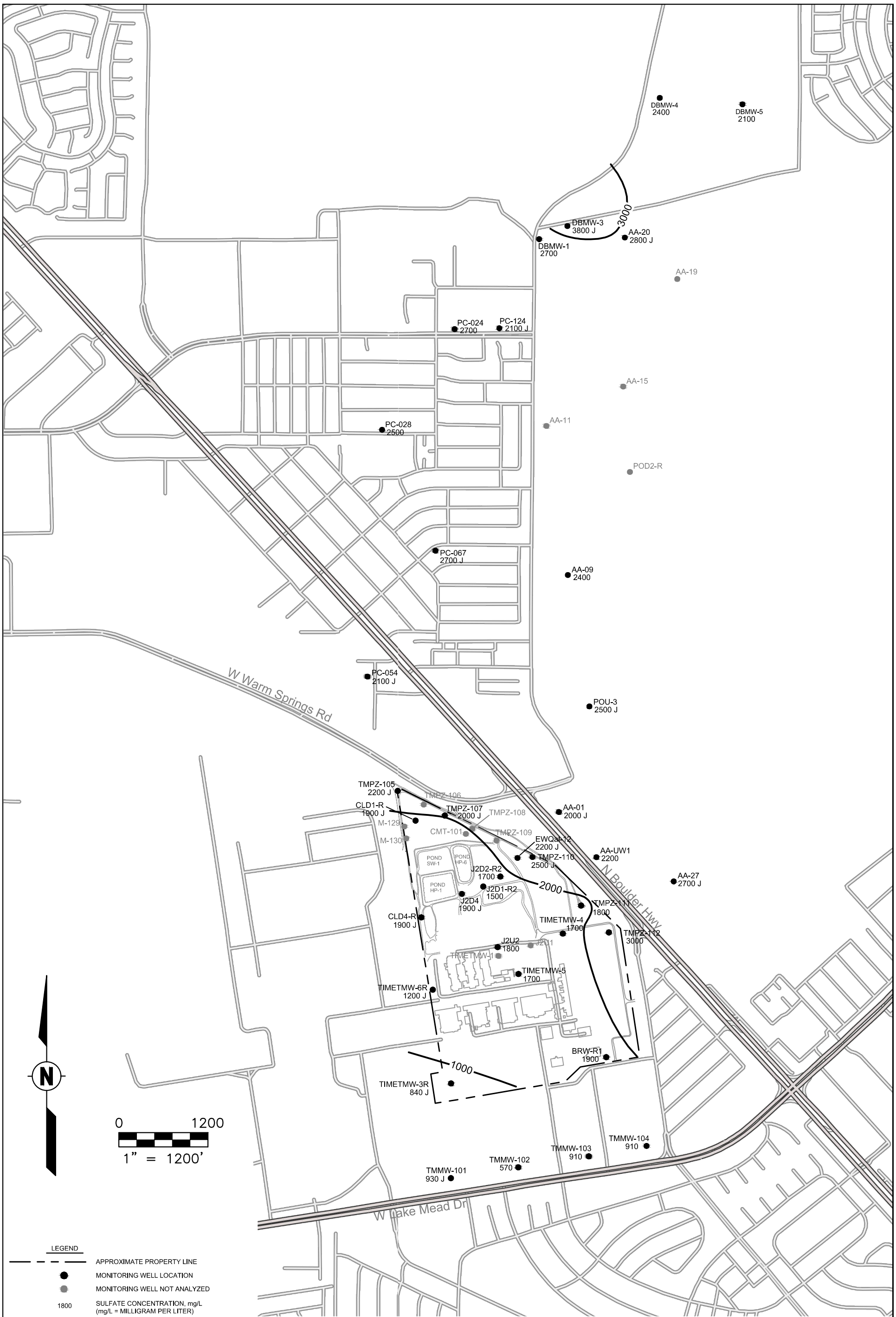

LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 1800 — SULFATE CONCENTRATION, mg/L (mg/L = MILLIGRAM PER LITER)
- 2500 — SULFATE CONTOUR, mg/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR SULFATE IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR SULFATE IS 250 mg/L.

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SULFATE ISOCONCENTRATION MAP, 1ST SEMESTER 2013

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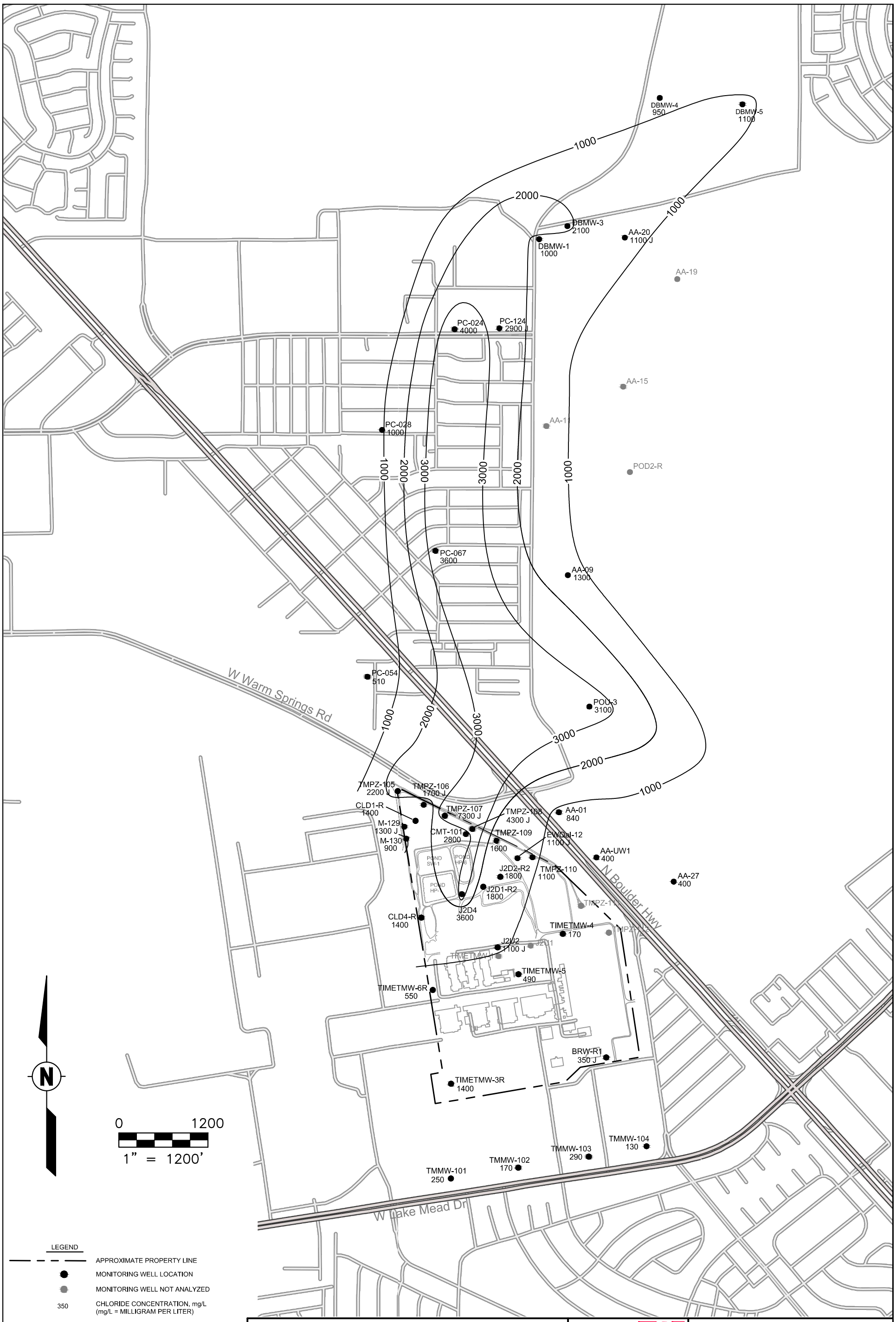

LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 350 — CHLORIDE CONCENTRATION, mg/L (mg/L = MILLIGRAM PER LITER)
- 1000 — CHLORIDE CONTOUR, mg/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR CHLORIDE IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE BCL FOR CHLORIDE IS 4 mg/L.

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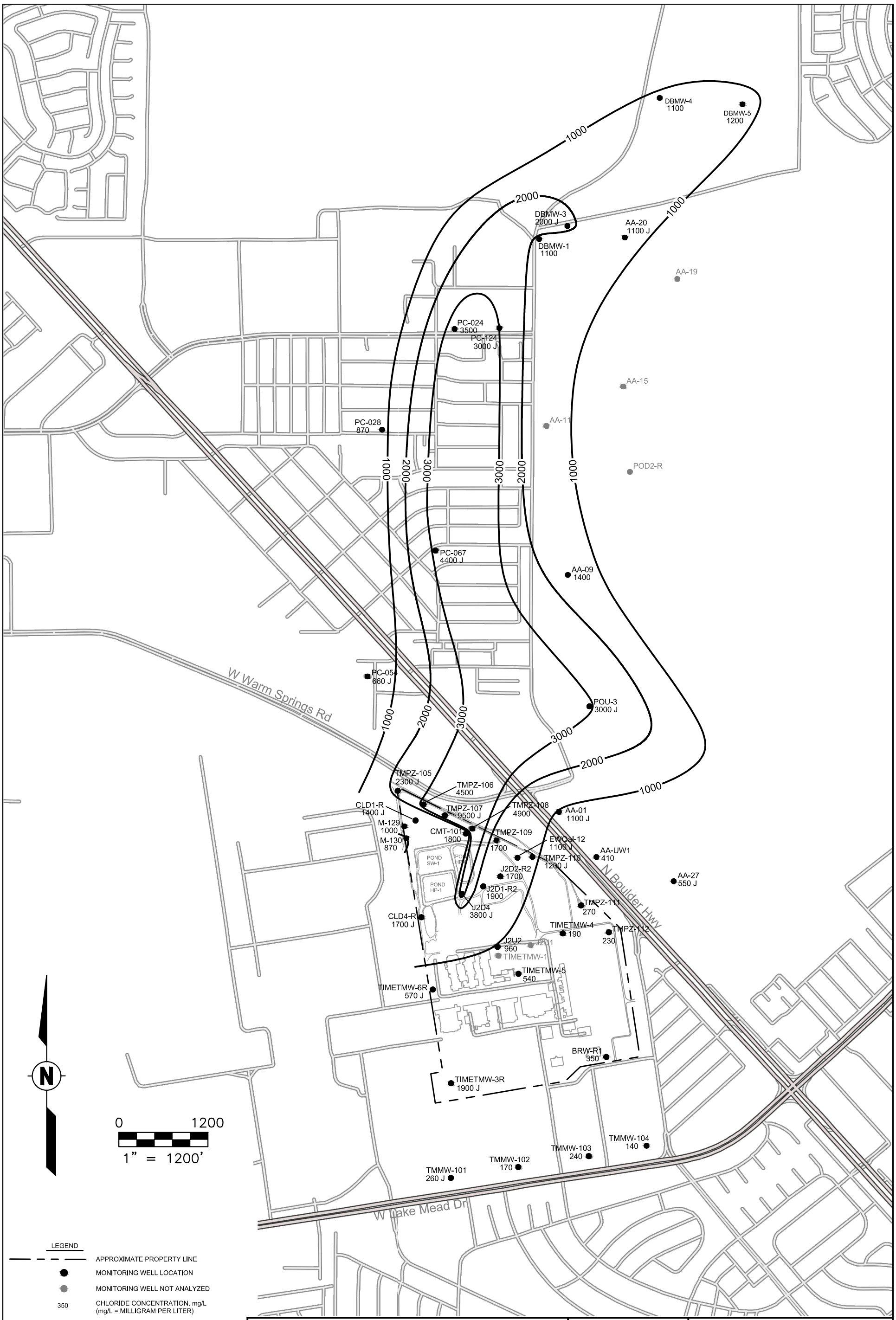
2013 ANNUAL GROUNDWATER MONITORING REPORT
CHLORIDE ISOCONCENTRATION MAP, 2ND SEMESTER 2012

Project 1323080 | October 2013 | Fig. 7



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 350 — CHLORIDE CONCENTRATION, mg/L (mg/L = MILLIGRAM PER LITER)
- 1000 — CHLORIDE CONTOUR, mg/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR CHLORIDE IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE BCL FOR CHLORIDE IS 4 mg/L.

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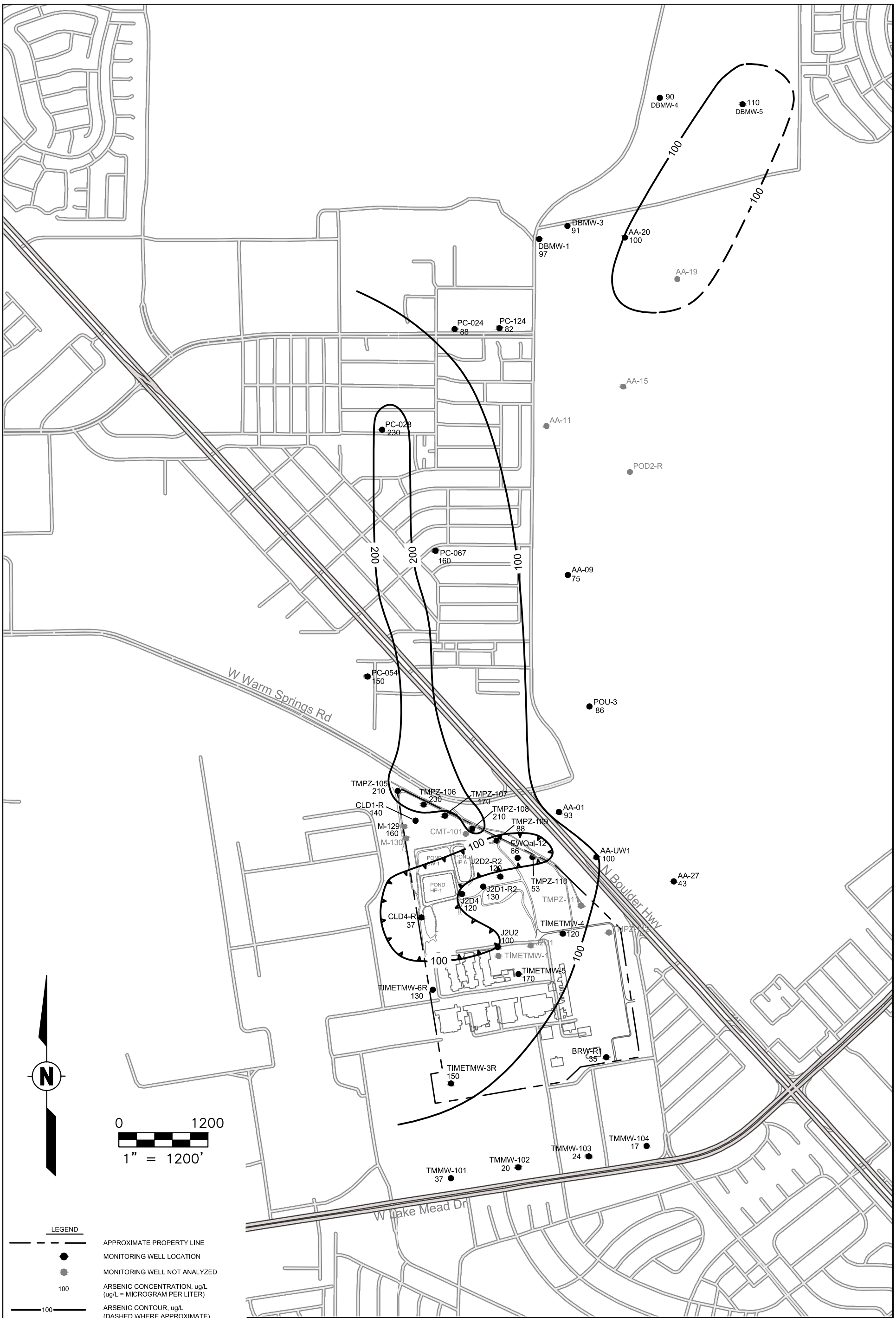
2013 ANNUAL GROUNDWATER MONITORING REPORT
CHLORIDE ISOCONCENTRATION MAP, 1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 8



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 100 — ARSENIC CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — ARSENIC CONTOUR, ug/L (DASHED WHERE APPROXIMATE)
- 100 — ARSENIC CONTOUR DEPRESSION

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

2) THE SCREENING LEVEL USED FOR ARSENIC IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR ARSENIC IS 10 ug/L.

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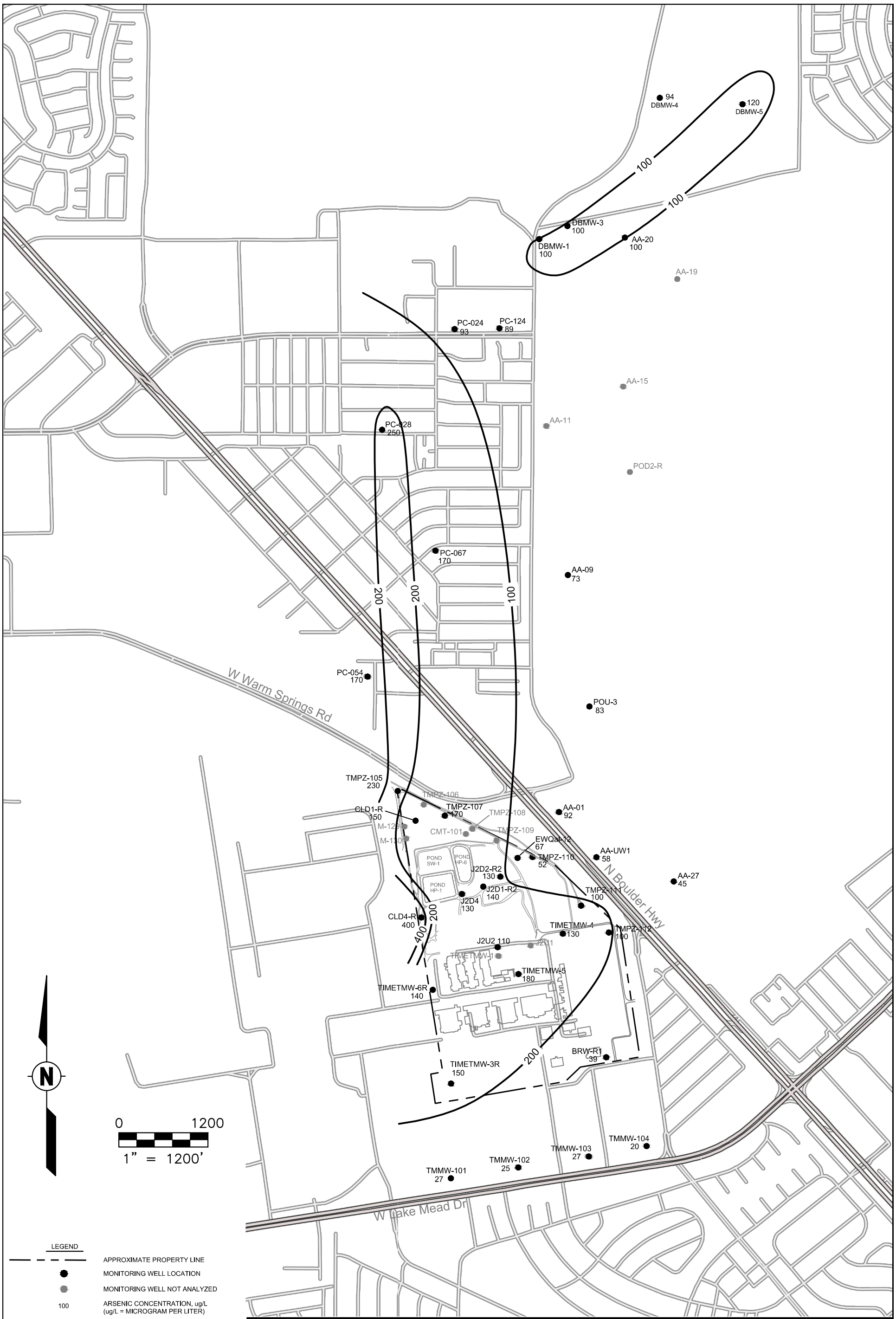
ARSENIC ISOCONCENTRATION MAP, 2ND SEMESTER 2012

Project 1323080 | October 2013 | Fig. 9



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 100 — ARSENIC CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — ARSENIC CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR ARSENIC IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR ARSENIC IS 10 ug/L.

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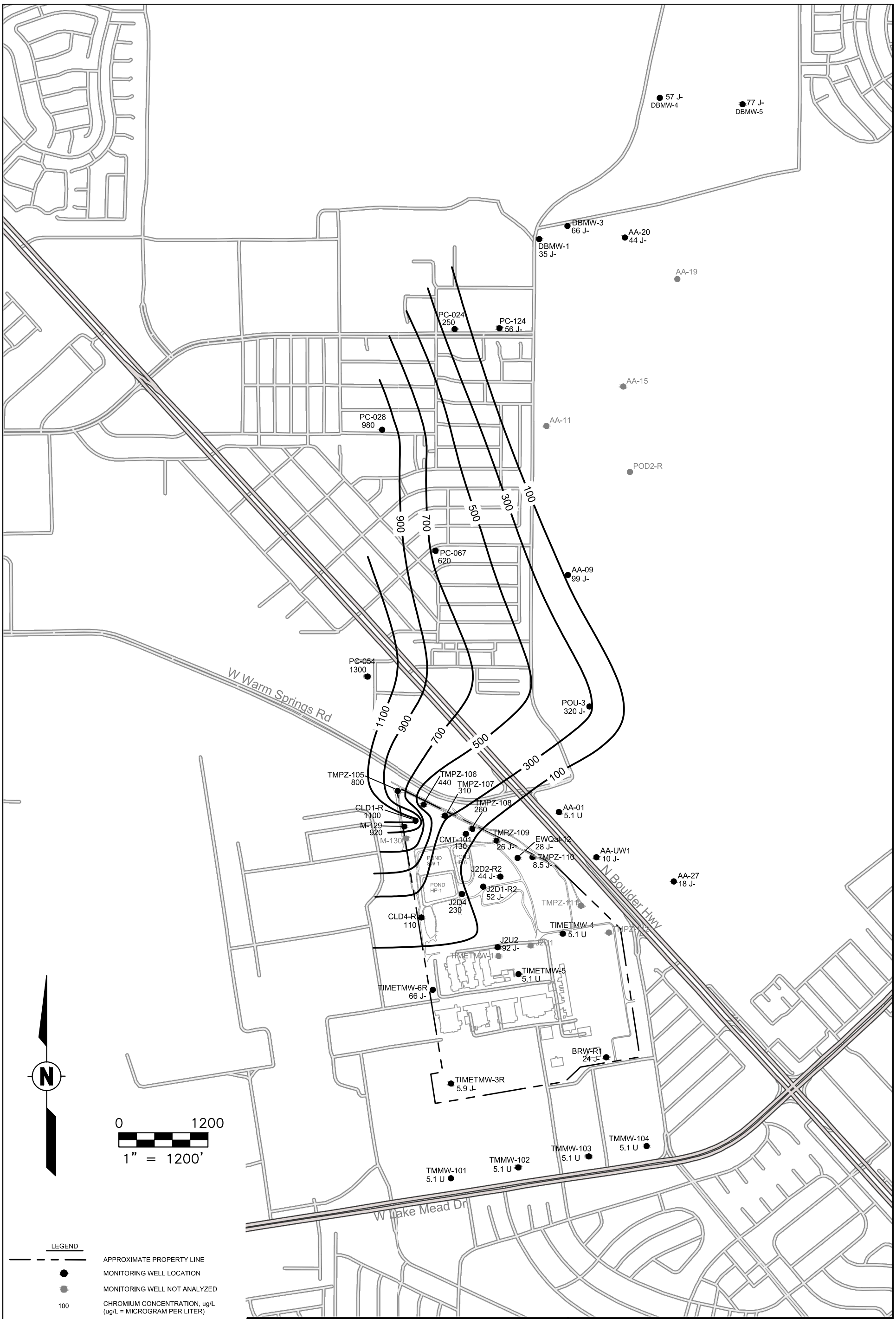
ARSENIC ISOCONCENTRATION MAP, 1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 10



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 100 — CHROMIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — CHROMIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR CHROMIUM IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR CHROMIUM IS 100 ug/L.

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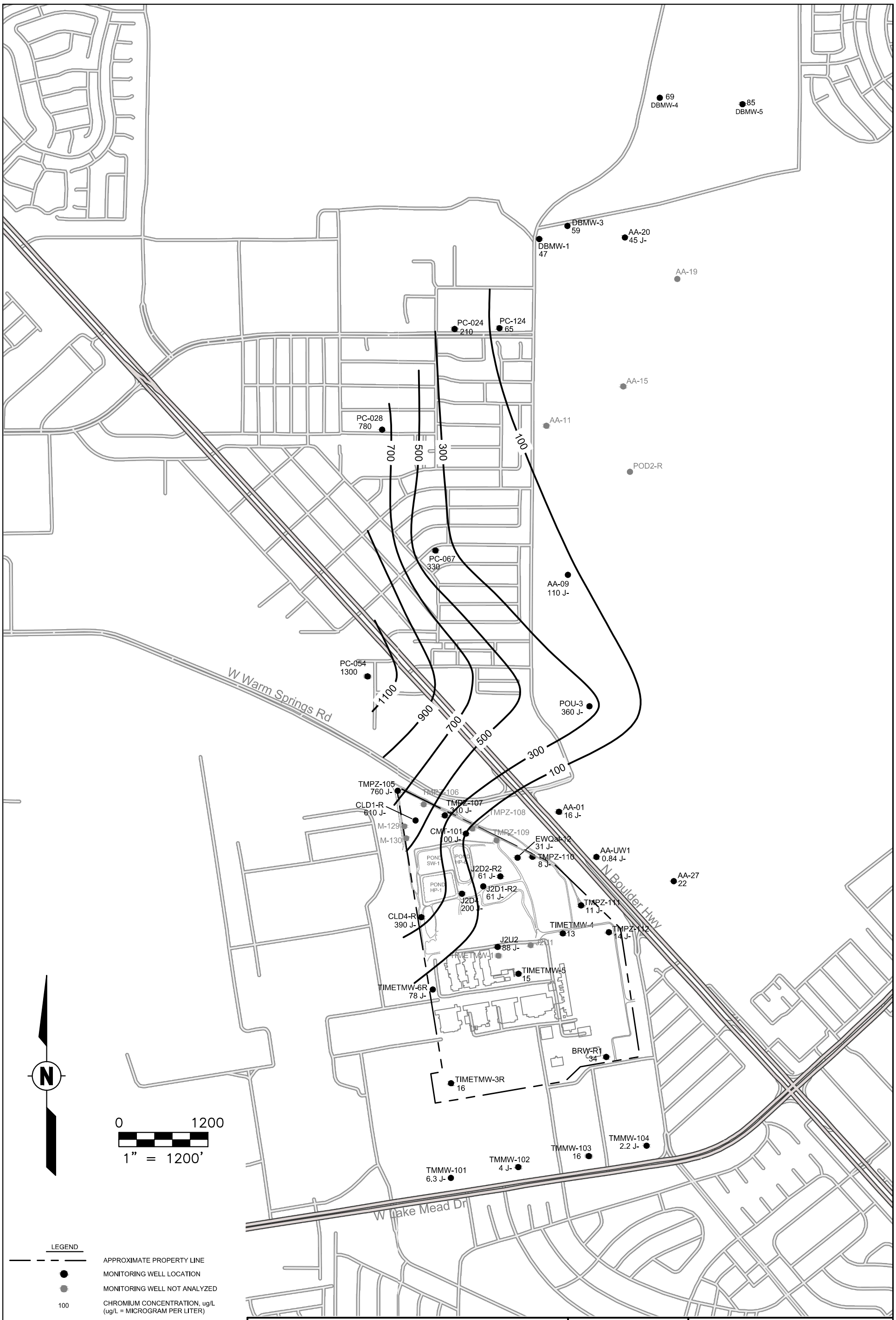
CHROMIUM ISOCONCENTRATION MAP, 2ND SEMESTER 2012

Project 1323080 | October 2013 | Fig. 11



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 100 — CHROMIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — CHROMIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR CHROMIUM IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR CHROMIUM IS 100 ug/L.

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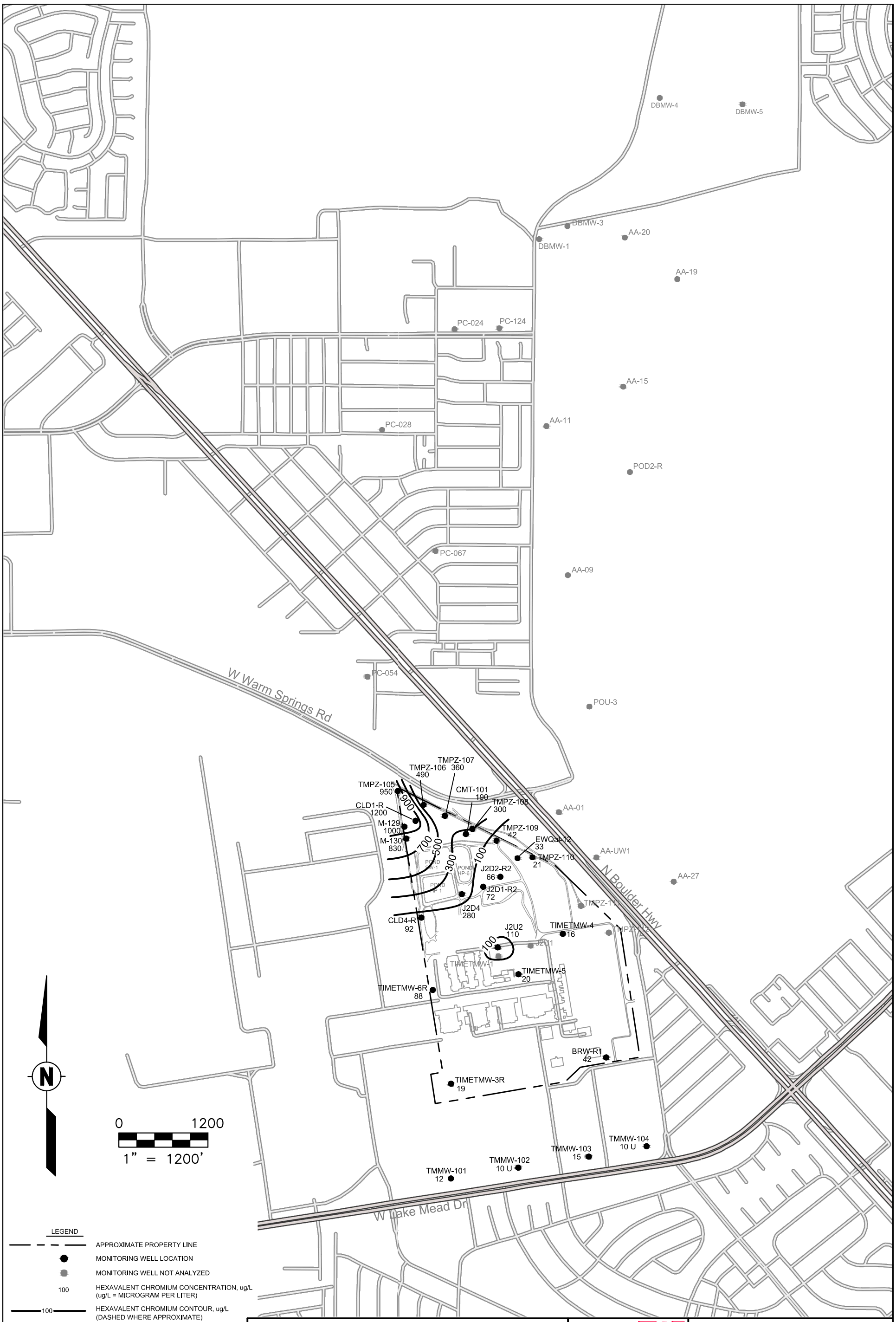
CHROMIUM ISOCONCENTRATION MAP, 1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 12



NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

2) THE SCREENING LEVEL USED FOR HEXAVALENT CHROMIUM IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR HEXAVALENT CHROMIUM IS 100 ug/L.

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HEXAVALENT CHROMIUM ISOCONCENTRATION MAP, 2ND SEMESTER 2012

Project 1323080 | October 2013 | Fig. 13

LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 100 — HEXAVALENT CHROMIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — HEXAVALENT CHROMIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

2) THE SCREENING LEVEL USED FOR HEXAVALENT CHROMIUM IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR HEXAVALENT CHROMIUM IS 100 ug/L.

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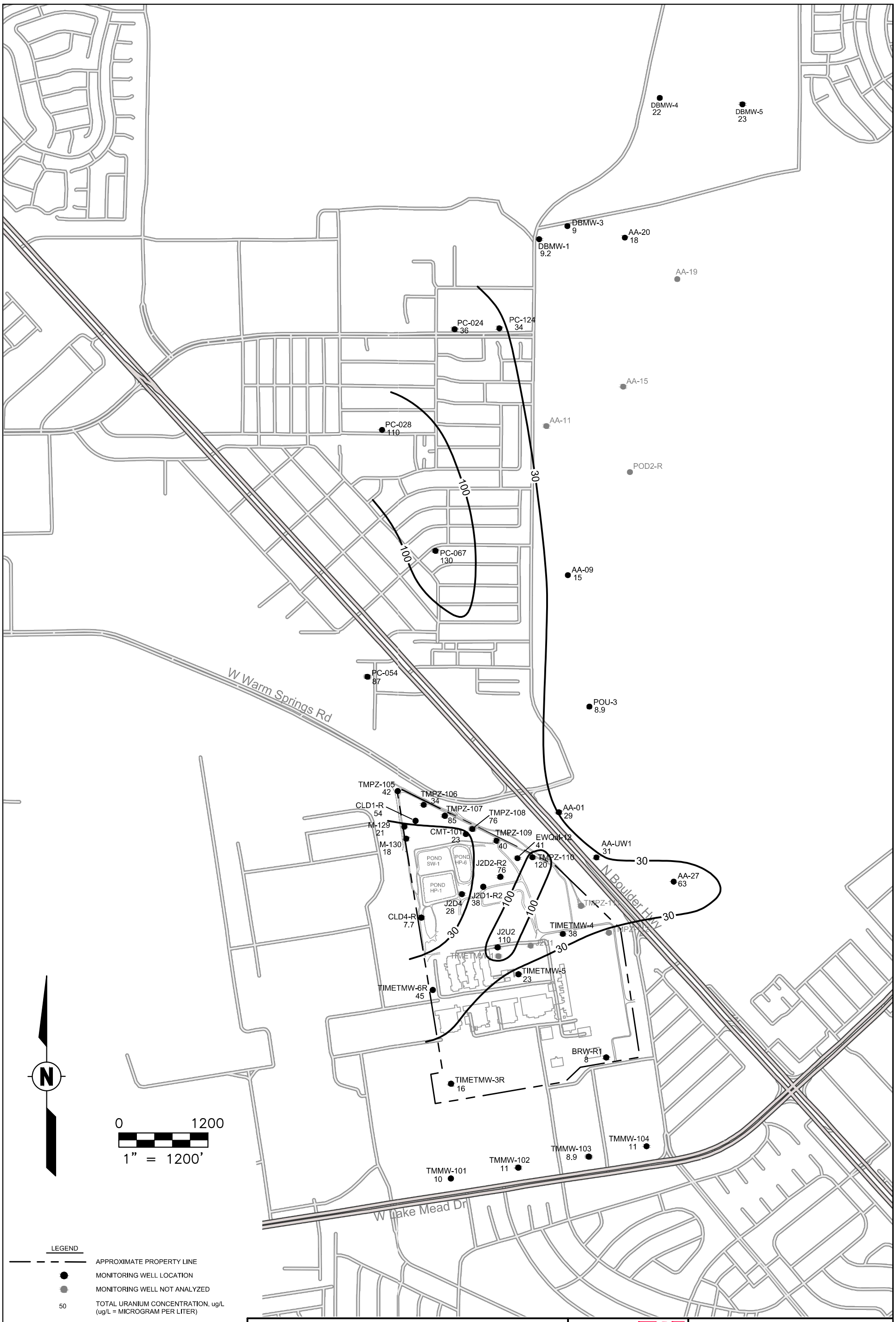
HEXAVALENT CHROMIUM ISOCONCENTRATION MAP, 1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 14



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 50 — TOTAL URANIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — TOTAL URANIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR TOTAL URANIUM IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR TOTAL URANIUM IS 30 ug/L.

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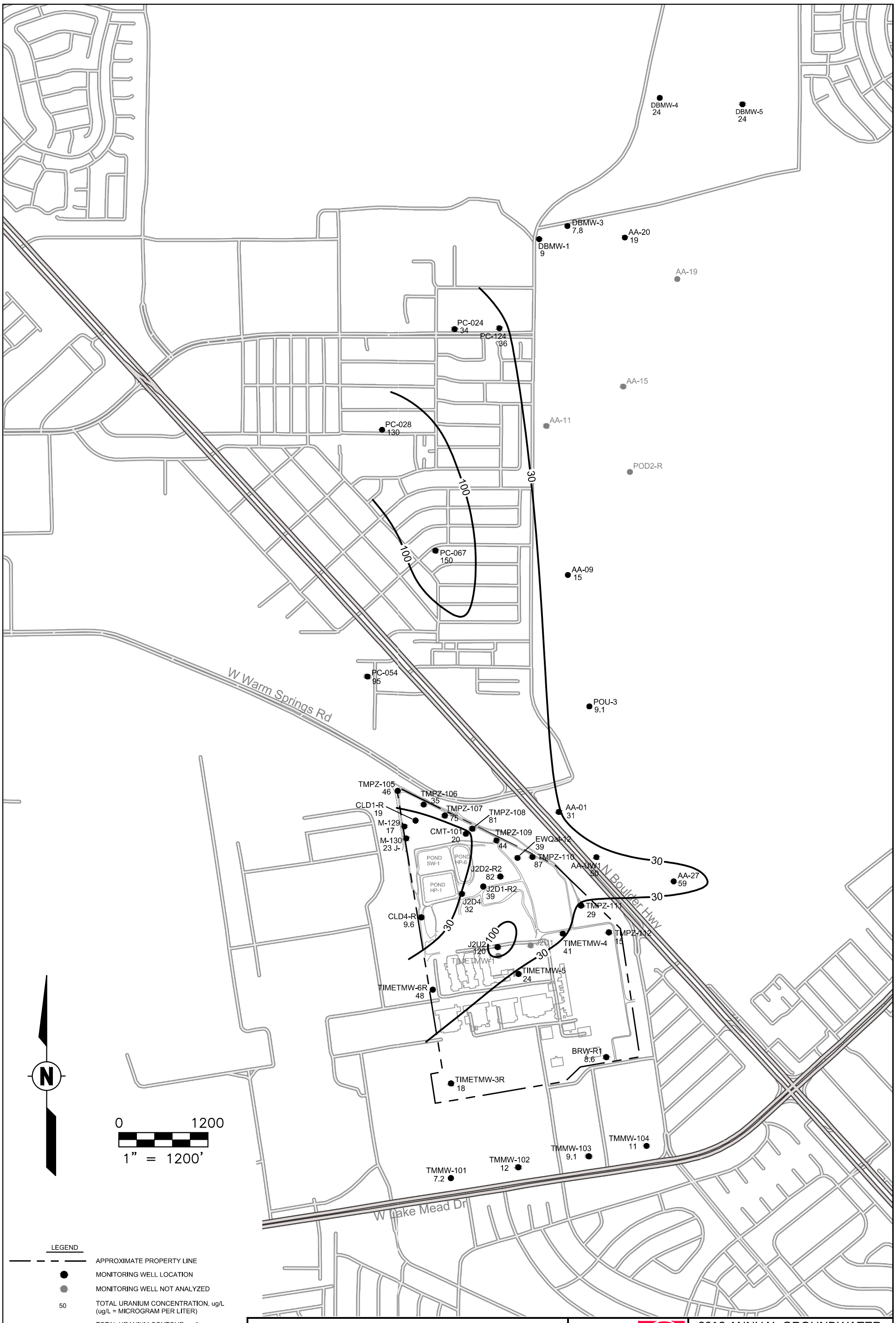
2013 ANNUAL GROUNDWATER MONITORING REPORT

TOTAL URANIUM ISOCONCENTRATION MAP 2ND SEMESTER 2012

Project 1323080 | October 2013 | Fig. 15



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 50 — TOTAL URANIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — TOTAL URANIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR TOTAL URANIUM IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR TOTAL URANIUM IS 30 ug/L.

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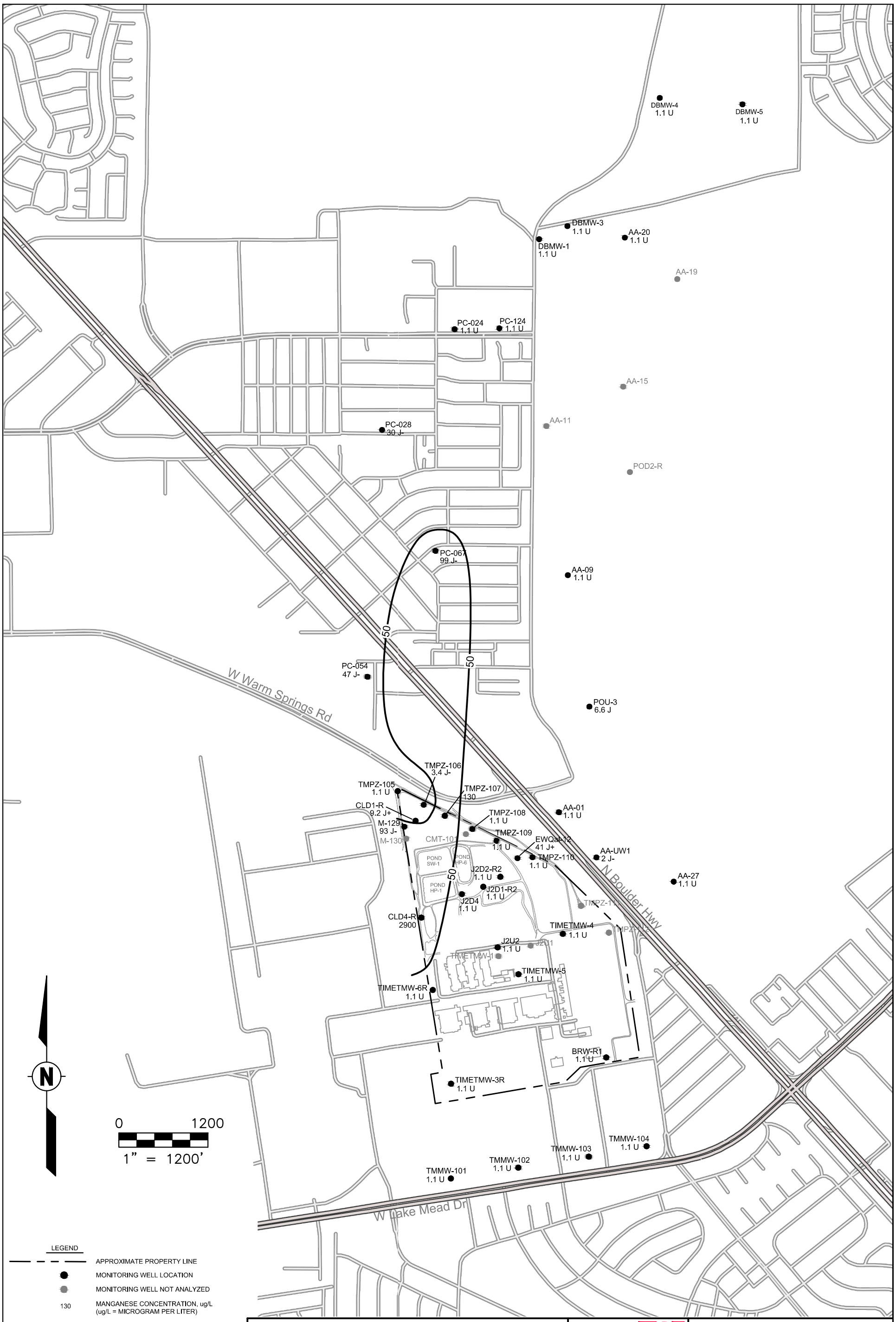
TOTAL URANIUM ISOCONCENTRATION MAP
1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 16



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 130 — MANGANESE CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 50 — MANGANESE CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

2) THE SCREENING LEVEL USED FOR MANGANESE IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR MANGANESE IS 50 ug/L.

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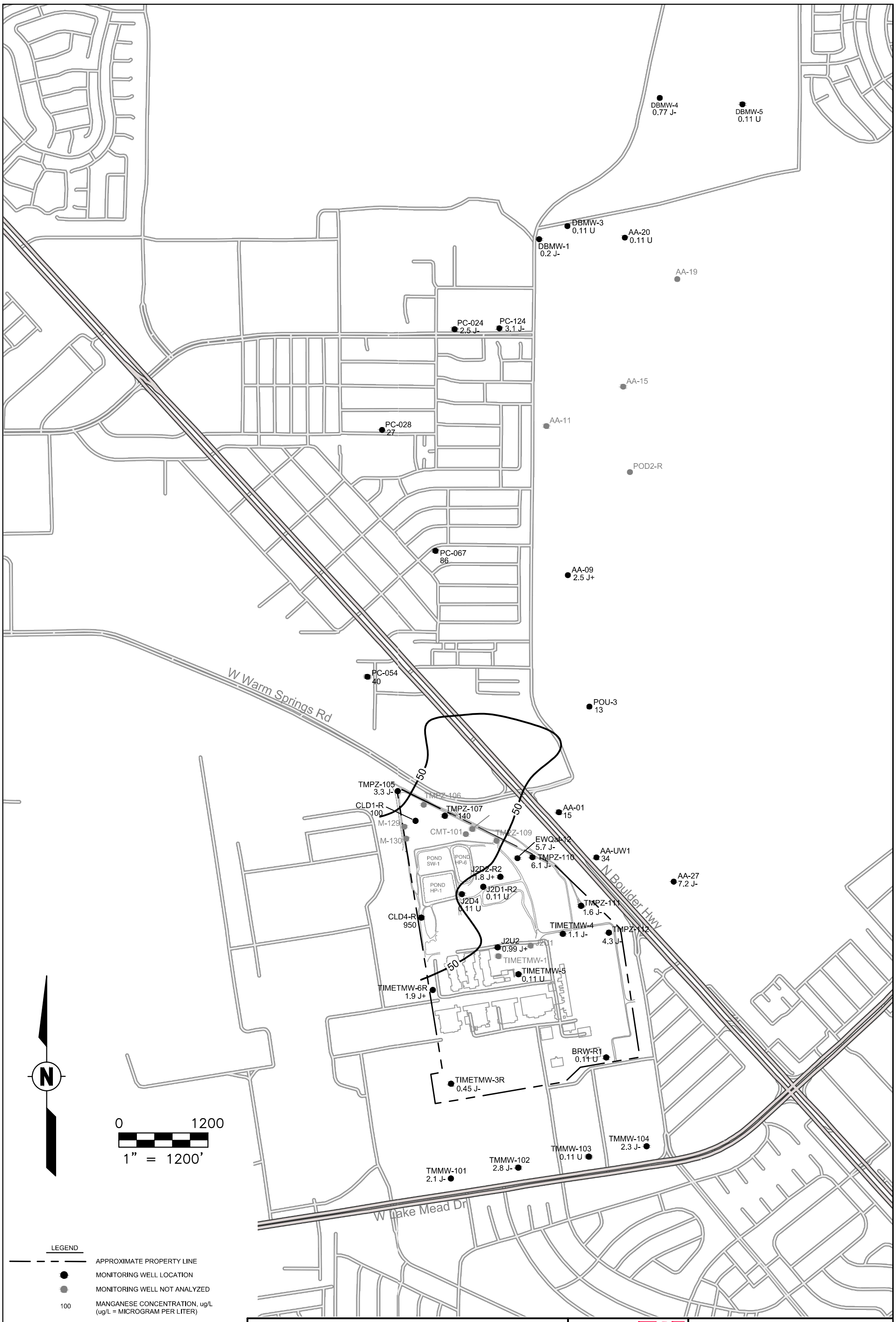
2013 ANNUAL GROUNDWATER MONITORING REPORT

MANGANESE ISOCONCENTRATION MAP, 2ND SEMESTER 2012

Project 1323080 | October 2013 | Fig. 17



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 100 — MANGANESE CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 50 — MANGANESE CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

2) THE SCREENING LEVEL USED FOR MANGANESE IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR MANGANESE IS 50 ug/L.

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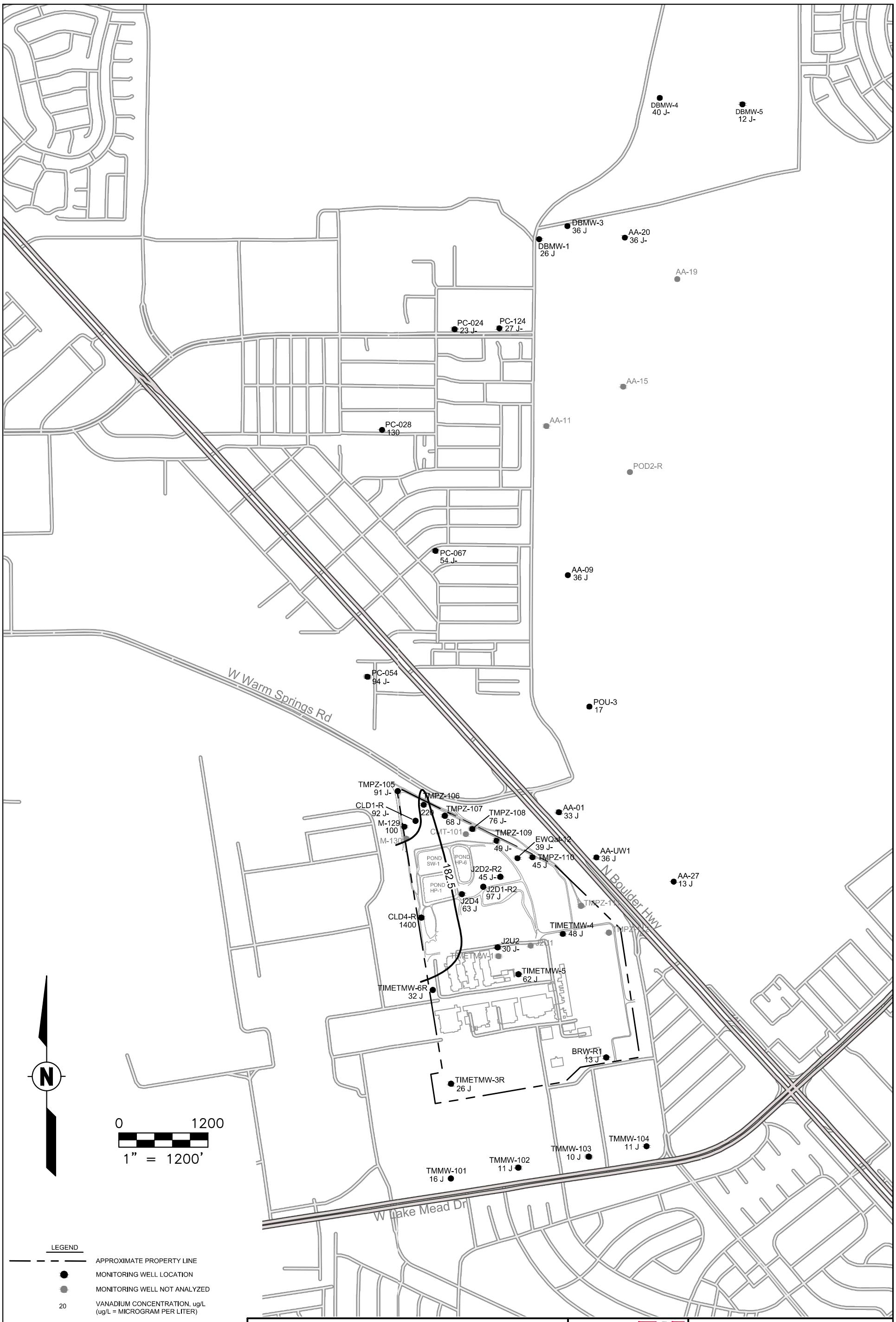
2013 ANNUAL GROUNDWATER MONITORING REPORT

MANGANESE ISOCONCENTRATION MAP, 1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 18



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 20 — VANADIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — VANADIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR VANADIUM IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE BCL FOR VANADIUM IS 182.5 ug/L.

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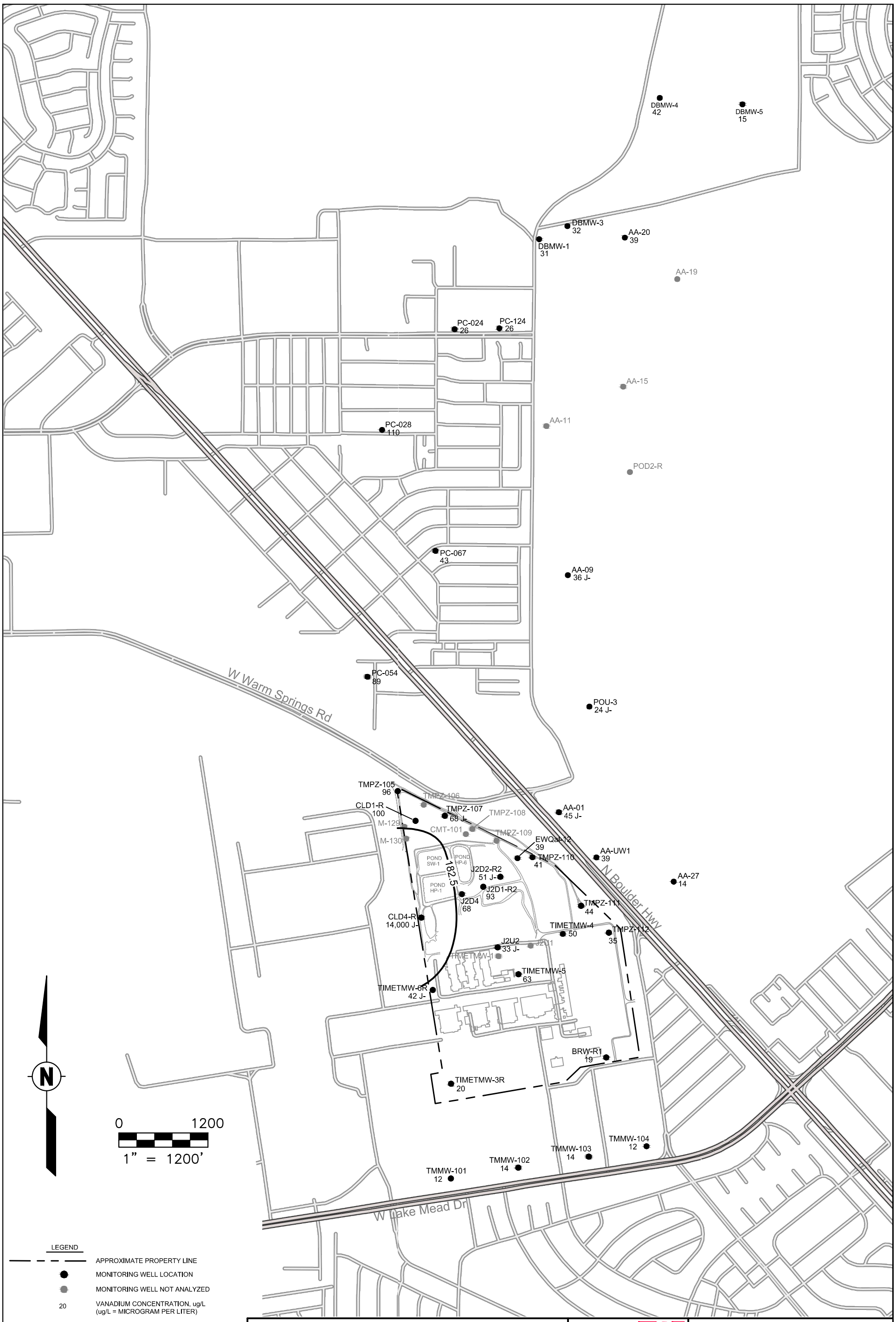
2013 ANNUAL GROUNDWATER MONITORING REPORT
VANADIUM ISOCONCENTRATION MAP
2ND SEMESTER 2012

Project 1323080 | October 2013 | Fig. 19



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 20 — VANADIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 100 — VANADIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR VANADIUM IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE BCL FOR VANADIUM IS 182.5 ug/L.

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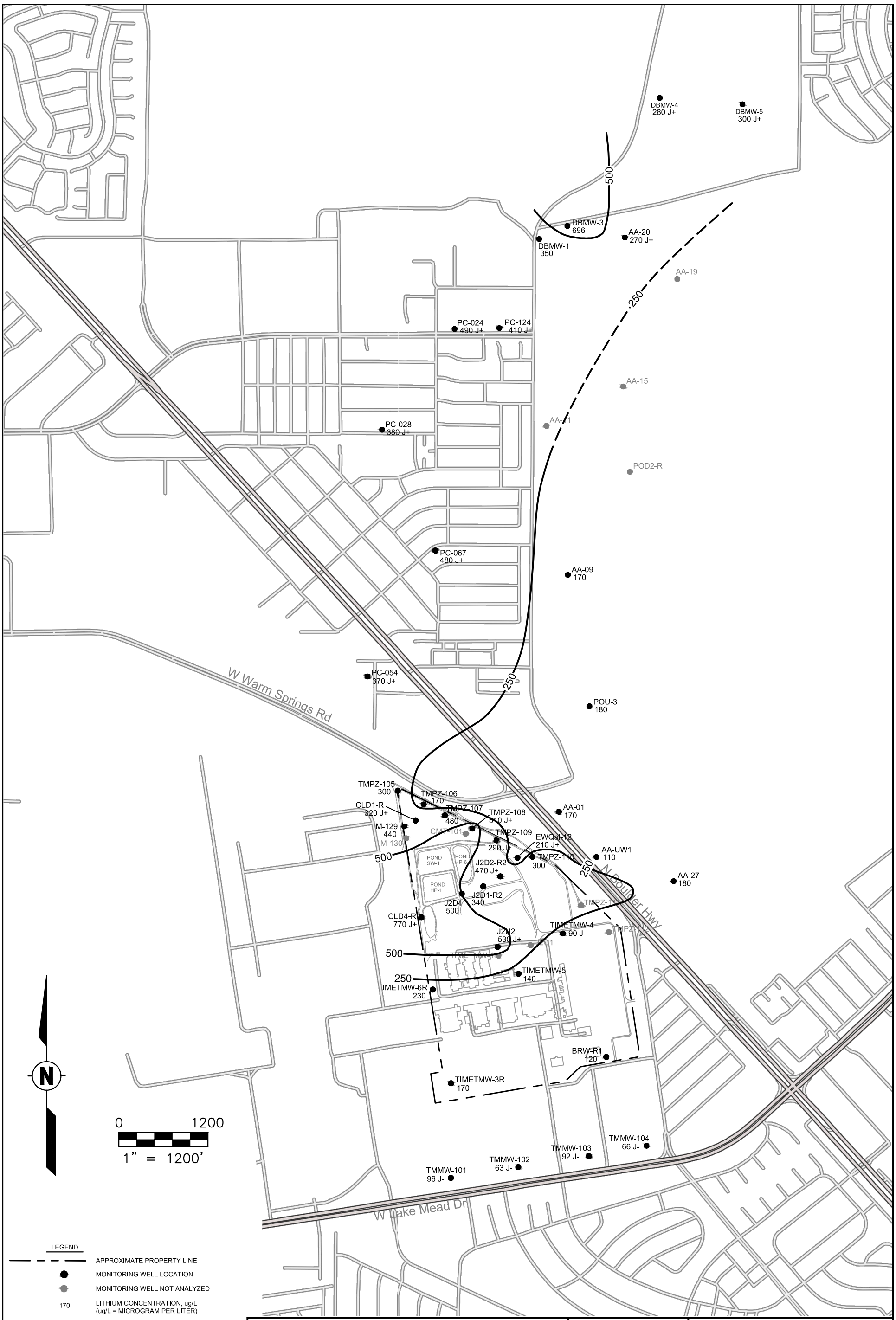
2013 ANNUAL GROUNDWATER MONITORING REPORT
VANADIUM ISOCONCENTRATION MAP
1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 20



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 170 — LITHIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 250 — LITHIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR LITHIUM IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE NDEP BCL FOR LITHIUM IS 73 ug/L.

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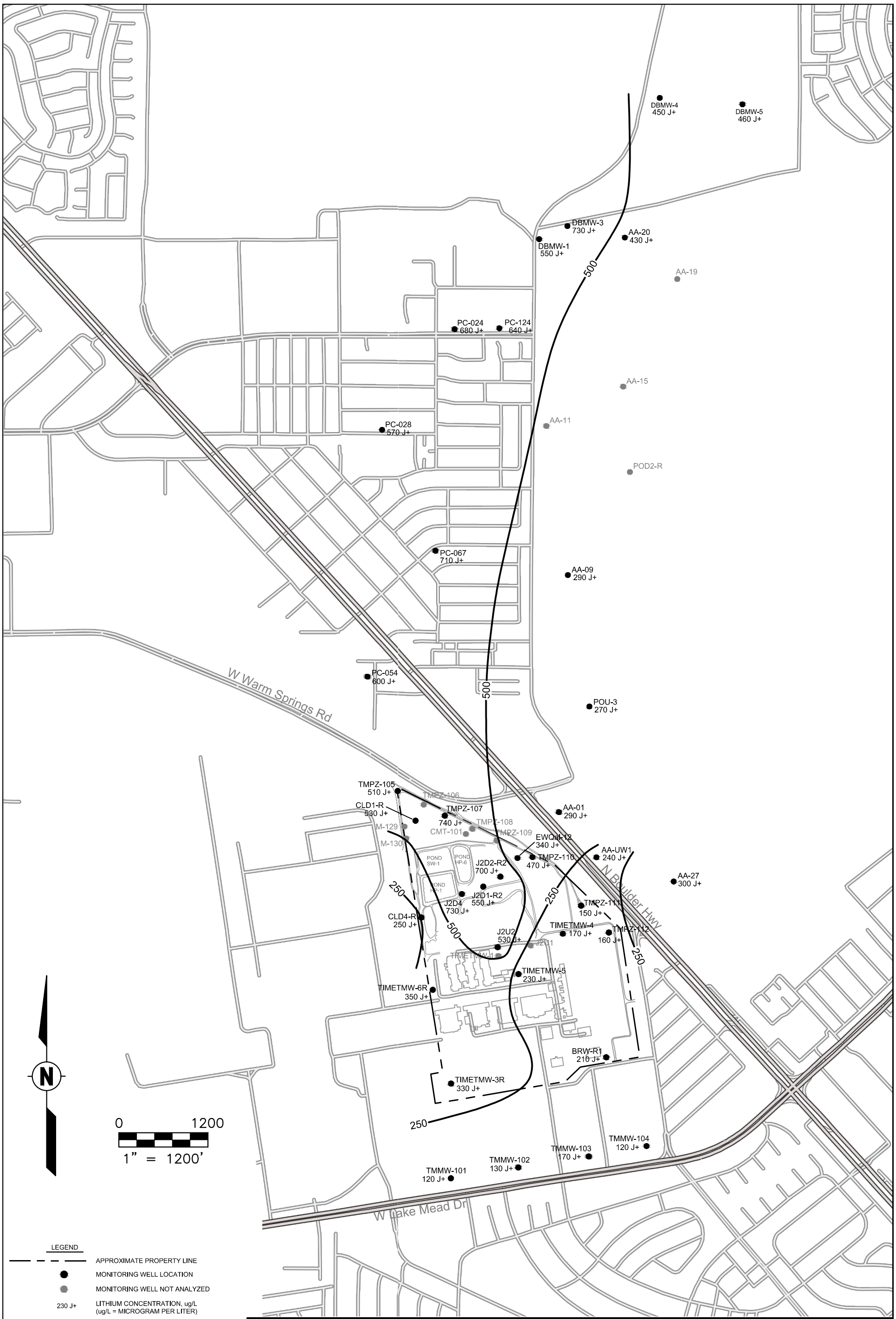
2013 ANNUAL GROUNDWATER MONITORING REPORT
LITHIUM ISOCONCENTRATION MAP
2ND SEMESTER 2012

Project 1323080 | October 2013 | Fig. 21



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 230 J+ — LITHIUM CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 250 — LITHIUM CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR LITHIUM IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE NDEP BCL FOR LITHIUM IS 73 ug/L.

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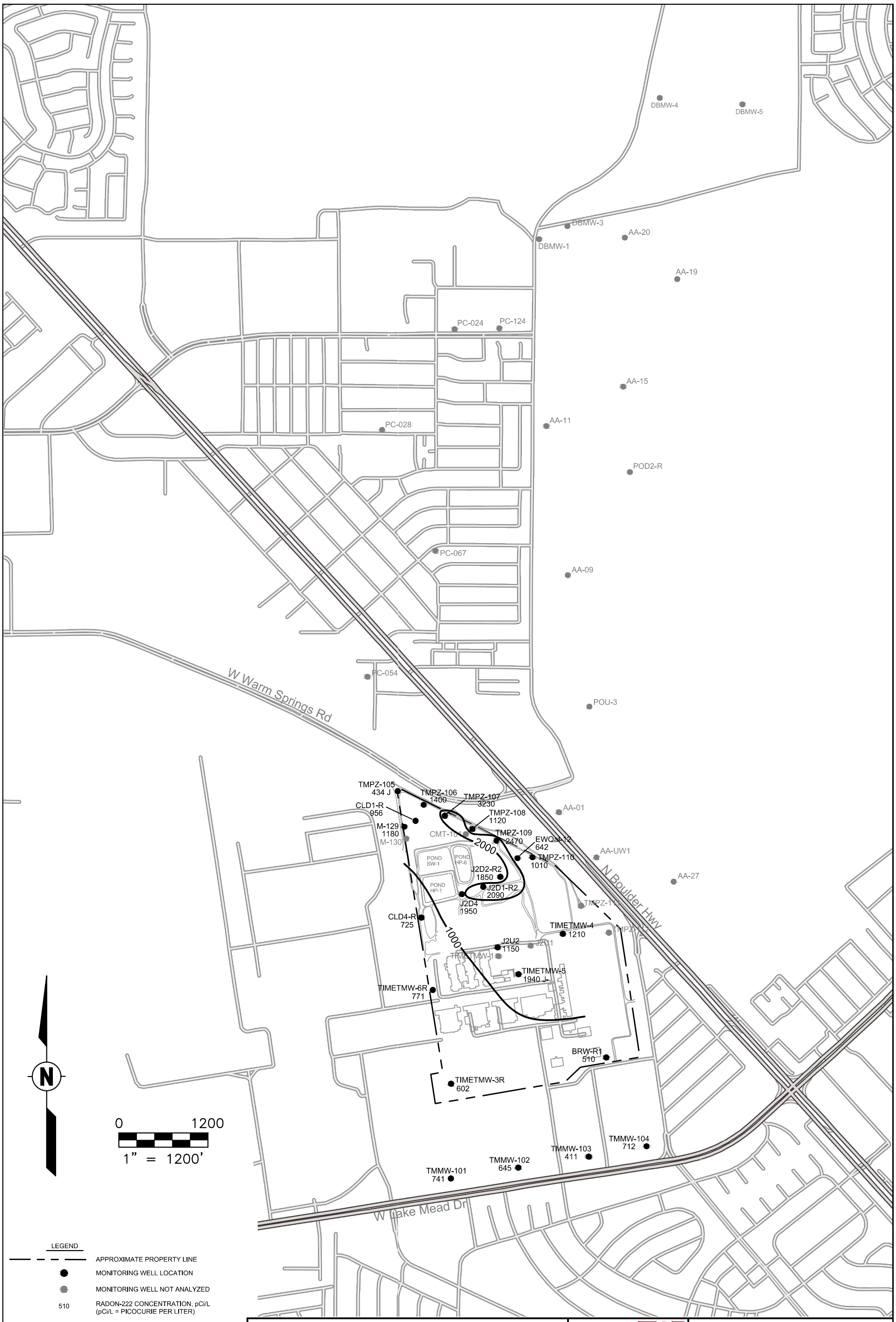
2013 ANNUAL GROUNDWATER MONITORING REPORT
LITHIUM ISOCONCENTRATION MAP
1ST SEMESTER 2013

Project 1323080 | October 2013 | Fig. 22



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 510 — RADON-222 CONCENTRATION, pCi/L (pCi/L = PICOCURIE PER LITER)
- 1000 — RADON-222 CONTOUR, pCi/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

2) THE PROPOSED SCREENING LEVEL USED FOR RADON-222 IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE PROPOSED MCL FOR RADON-222 IS 300 pCi/L.

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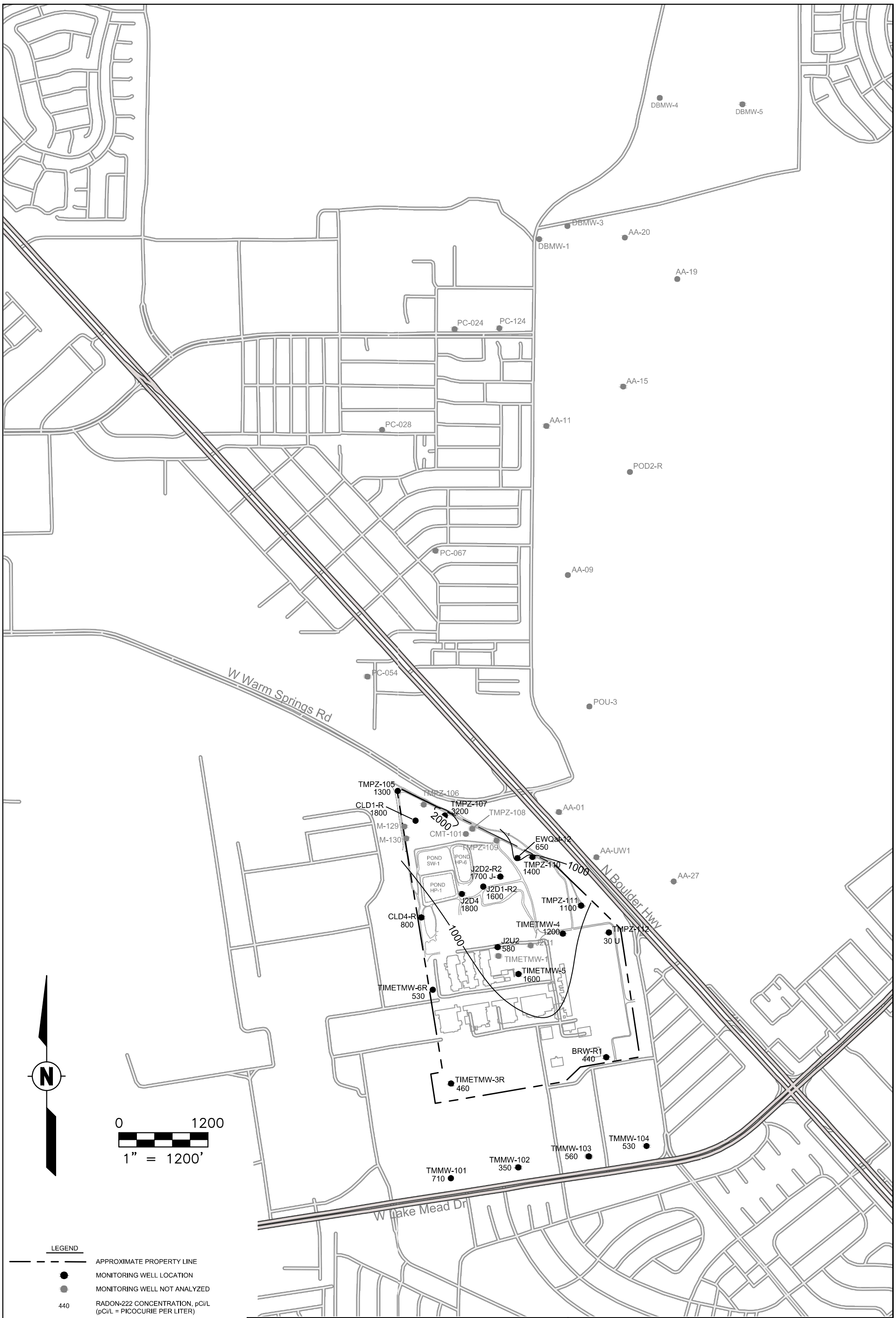
2013 ANNUAL GROUNDWATER MONITORING REPORT
RADON-222 ISOCONCENTRATION MAP, 2nd SEMESTER 2012

Project 1323080 | October 2013 | Fig. 23



LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 440 — RADON-222 CONCENTRATION, pCi/L (pCi/L = PICOCURIE PER LITER)
- 1000 — RADON-222 CONTOUR, pCi/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).

2) THE PROPOSED SCREENING LEVEL USED FOR RADON-222 IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE PROPOSED MCL FOR RADON-222 IS 300 pCi/L.

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RADON-222 ISOCONCENTRATION MAP, 1ST SEMESTER 2013

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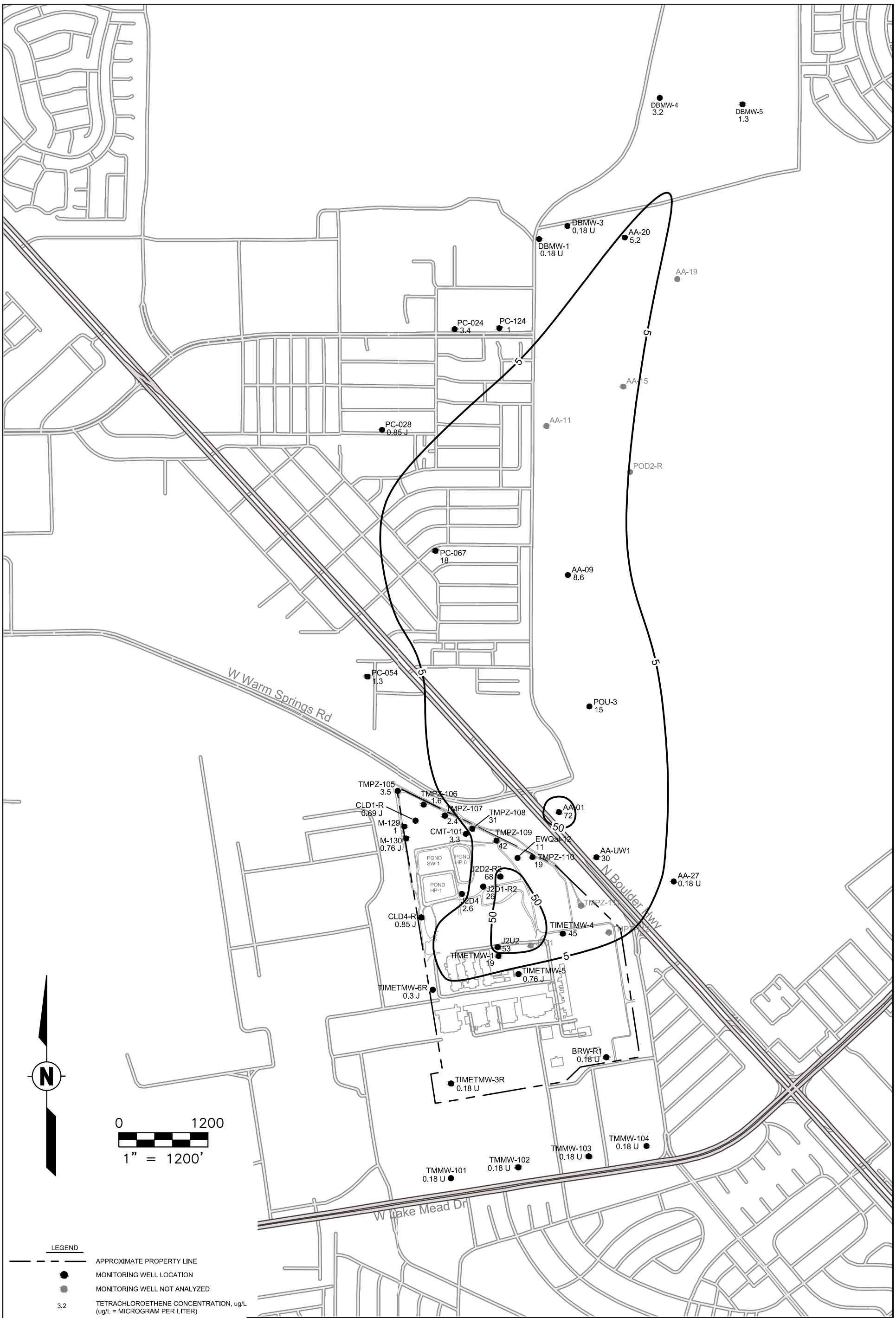

LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 3.2 TETRACHLOROETHENE CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 50 TETRACHLOROETHENE CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR TETRACHLOROETHENE IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE BCL FOR TETRACHLOROETHENE IS 5 ug/L.

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2013 ANNUAL GROUNDWATER MONITORING REPORT
TETRACHLOROETHENE ISOCONCENTRATION MAP
2ND SEMESTER 2012

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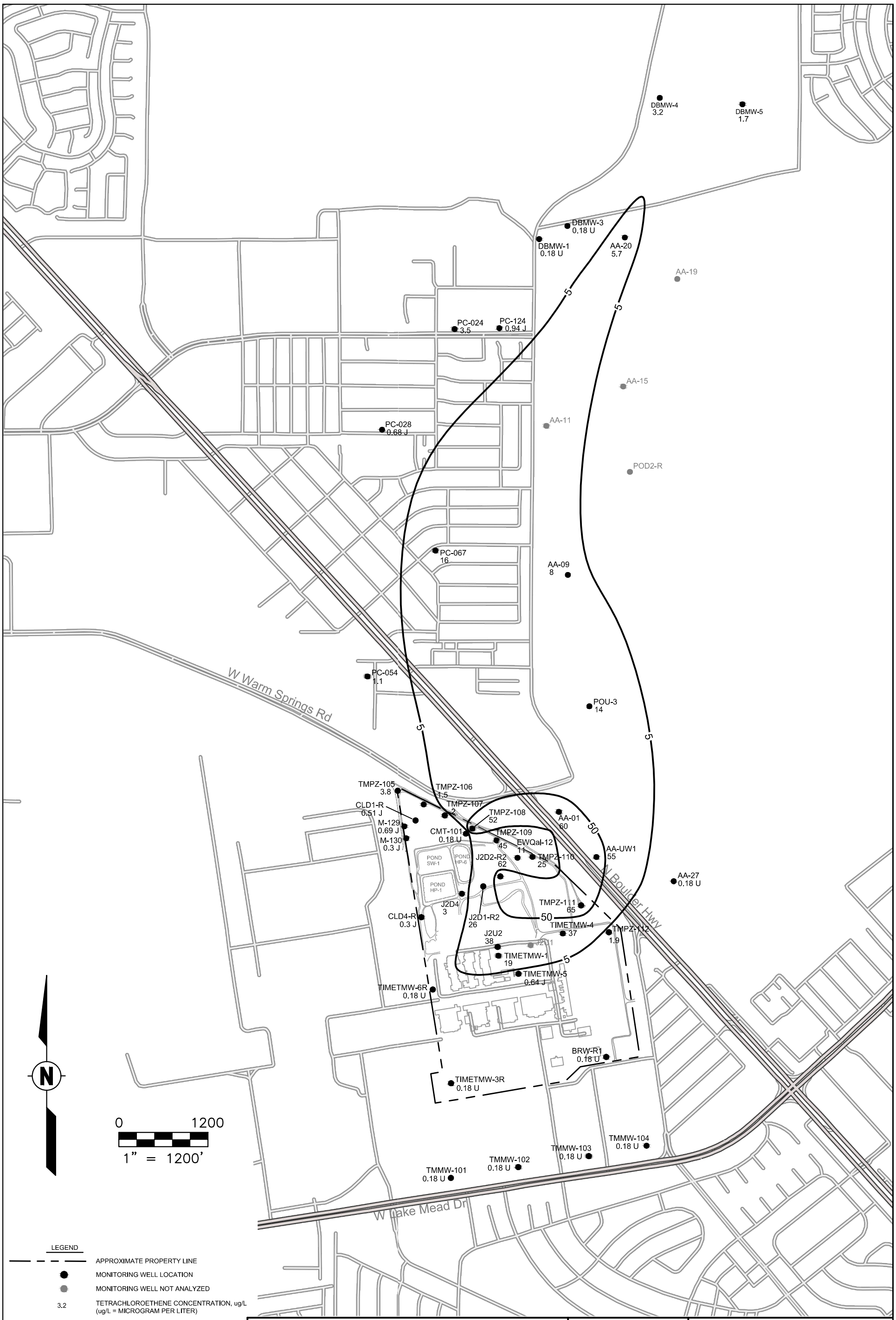

LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 3.2 TETRACHLOROETHENE CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 50 TETRACHLOROETHENE CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR TETRACHLOROETHENE IS THE RESIDENTIAL WATER NDEP BASIC COMPARISON LEVEL (BCL). THE BCL FOR TETRACHLOROETHENE IS 5 ug/L.

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TETRACHLOROETHENE ISOCONCENTRATION MAP
1ST SEMESTER 2013

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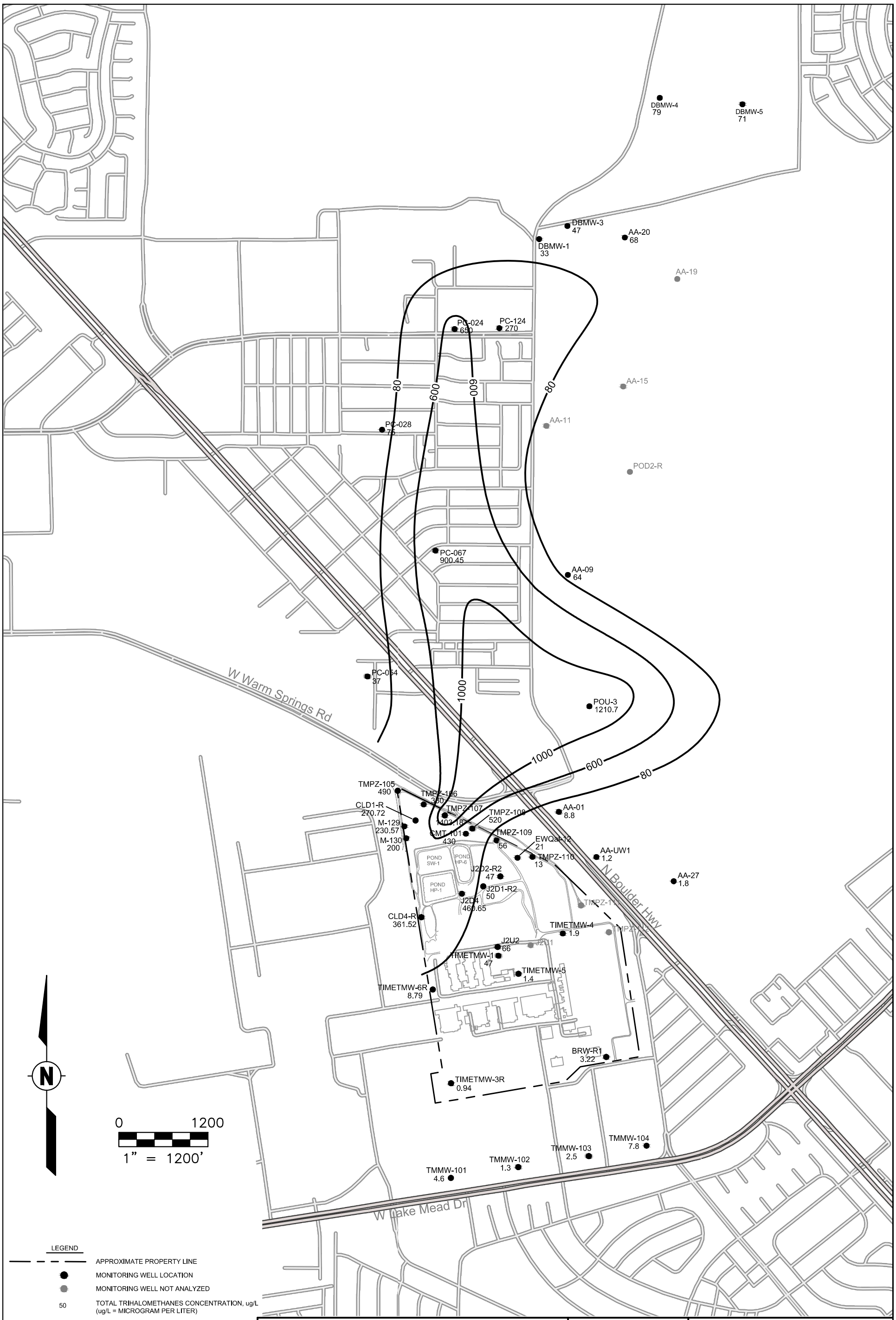

LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 50 — TOTAL TRIHALOMETHANES CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 80 — TOTAL TRIHALOMETHANES CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR TOTAL TRIHALOMETHANES IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR TOTAL TRIHALOMETHANES IS 80 ug/L.

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2013 ANNUAL GROUNDWATER MONITORING REPORT
TOTAL TRIHALOMETHANES ISOCONCENTRATION MAP
2ND SEMESTER 2012

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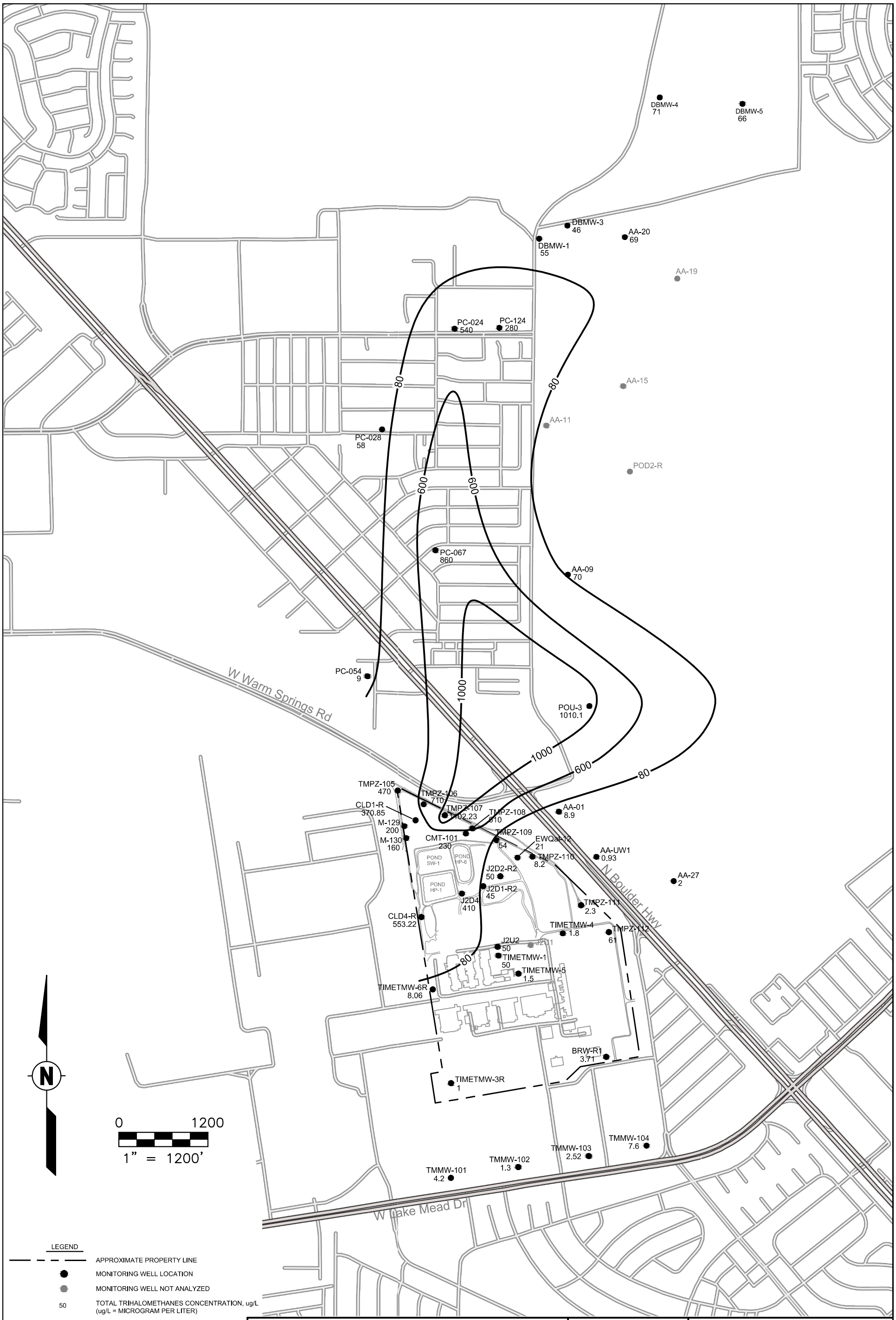

LEGEND

- APPROXIMATE PROPERTY LINE
- MONITORING WELL LOCATION
- MONITORING WELL NOT ANALYZED
- 50 — TOTAL TRIHALOMETHANES CONCENTRATION, ug/L (ug/L = MICROGRAM PER LITER)
- 80 — TOTAL TRIHALOMETHANES CONTOUR, ug/L (DASHED WHERE APPROXIMATE)

NOTES:

1) MAP IS FROM USGS 7.5 MINUTE QUADRANGLE MAPS LAS VEGAS SE, NV (2012) & HENDERSON, NV (2012).
2) THE SCREENING LEVEL USED FOR TOTAL TRIHALOMETHANES IS THE EPA NATIONAL DRINKING WATER STANDARD MAXIMUM CONTAMINENT LEVEL (MCL). THE MCL FOR TOTAL TRIHALOMETHANES IS 80 ug/L.

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TOTAL TRIHALOMETHANES ISOCONCENTRATION MAP
1ST SEMESTER 2013

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