FREEPORT-McMoRan

Sierrita Operations
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April 28, 2016

**Via Certified Mail # 7762 0547 0855**
**Return Receipt Requested**

Ms. Madeline Keller
Arizona Department of Environmental Quality
Water Quality Compliance Section
1110 West Washington Street
Phoenix, Arizona 85007-2935

**Re: Mitigation Order on Consent Docket No. P-50-06**
**Reporting Year 2015 Mitigation Performance Review Report**

Dear Ms. Keller:

In accordance with Section 5.2 of the Mitigation Plan[1], Freeport-McMoRan Sierrita Inc. submits the enclosed *Mitigation Performance Review* for reporting year 2015.

Please do not hesitate to contact me at (520) 393-2347 if you have any questions regarding this submittal.

Sincerely,

Deborah Chismar
Sr. Environmental Specialist
Freeport-McMoRan Sierrita Inc.

DTN: 20160428_001

[1] Clear Creek Associates. 2013. Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Freeport-McMoRan Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent Docket No. P-50-06. December 18, 2013.

# MITIGATION PERFORMANCE REVIEW FOR 2015

# MITIGATION ORDER ON CONSENT DOCKET NO. P-50-06

*Prepared for:*

**FREEPORT-MCMORAN SIERRITA INC.**
6200 West Duval Mine Road
Green Valley, Arizona 85614

*Prepared by:*

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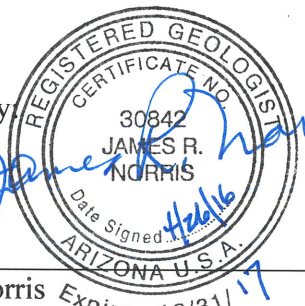
April 26, 2016

**MITIGATION PERFORMANCE REVIEW FOR 2015**
**MITIGATION ORDER ON CONSENT DOCKET NO. P-50-06**

Prepared for:

**FREEPORT-MCMORAN SIERRITA INC.**
6200 West Duval Mine Road
Green Valley, Arizona 85614

Approved by:




James R. Norris Expires 12/31/17
Arizona Registered Geologist No. 30842

April 26, 2016

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# 1.0 INTRODUCTION

This mitigation performance review evaluates the effectiveness of the groundwater mitigation action conducted by Freeport-McMoRan Sierrita Inc. (Sierrita) to address a groundwater plume of sulfate in the vicinity of the Sierrita Tailing Impoundment (STI) near Green Valley, Arizona (Figure 1) through the end of 2015. The mitigation action is conducted pursuant to Mitigation Order on Consent No. P-50-06 between Arizona Department of Environmental Quality (ADEQ) and Sierrita (ADEQ, 2006).

The mitigation action is described in the Mitigation Plan submitted to ADEQ in 2013 (Clear Creek Associates, 2013). The mitigation action consists of the operation of a groundwater pumping and water reuse system to control the migration of the sulfate plume and prevent sulfate concentrations at drinking water supply wells near the plume from exceeding 250 milligrams per liter (mg/L) at the point of use. Groundwater monitoring for the mitigation action is conducted to track plume migration, monitor sulfate in drinking water supplies, and collect information relevant to wellfield operation. The objective of this mitigation performance review is to assess the effectiveness of the mitigation action based on operational and monitoring data collected during 2015, the second year of operation under the Mitigation Plan.

## 1.1 Background

Mitigation Order on Consent No. P-50-06 was established in 2006 to provide for the mitigation of drinking water supplies if they are affected by sulfate at concentrations greater than 250 mg/L due to the STI. The Mitigation Order required Sierrita to characterize the extent of sulfate in groundwater and to develop a mitigation plan to practically and cost effectively provide a drinking water supply to the owner/operator of an existing drinking water supply impacted by sulfate attributable to the STI.

Existing drinking water supplies in the vicinity of the STI are currently not affected by sulfate in excess of 250 mg/L. The objective of the mitigation action is to protect existing drinking water supplies by controlling future plume migration so that the plume does not affect drinking water supplies.

In October 2008, Sierrita submitted a Feasibility Study to ADEQ that recommended a mitigation action of pumping sulfate-affected groundwater in the vicinity of the STI to control additional downgradient movement of the plume and, over time, to reduce the extent of the plume (Hydro Geo Chem, Inc., 2008). The Feasibility Study reported a conceptual design of the mitigation action that was based on simulations using a numerical model for groundwater flow and sulfate transport to

predict the future migration of the plume under the groundwater pumping assumed for the mitigation action.

ADEQ approved the recommended mitigation action in March 2009 and requested a mitigation plan (ADEQ, 2009). Sierrita submitted the Mitigation Plan in May 2009, but ADEQ deferred its finalization because it contained several contingencies related to the outcomes of land acquisition, construction permitting, and other activities required to implement the mitigation action (Sierrita, 2010). Sierrita began implementing the mitigation action in 2009 and completed the land acquisition, permitting, design, and construction of the required new pumping and pipeline facilities at the end of 2013. The Mitigation Plan was revised based on the constructed wellfield and submitted to ADEQ in December 2013.

The Mitigation Plan describes the process Sierrita is following to implement the mitigation action; including its operation, monitoring, evaluation, adaptation, termination, and reporting. Groundwater pumping under the specifications of the Mitigation Plan began in 2014. Also in 2014, ADEQ provided Sierrita with recommendations for the Mitigation Plan (ADEQ 2014). Sierrita responded to ADEQ's recommendations (Sierrita, 2015a) and ADEQ approved the Mitigation Plan in 2015 (ADEQ, 2015).

## 1.2 Mitigation Action Objective

The mitigation action objective defined in the Mitigation Order is to "practically and cost effectively provide a drinking water supply that meets applicable standards and with sulfate concentrations less than 250 mg/L to the owner/operator of an existing drinking water supply determined…to have an average sulfate concentration in excess of 250 mg/L…as a result of the sulfate plume". The Feasibility Study defines the sulfate plume as consisting of the horizontal and vertical extent of groundwater with sulfate concentrations greater than 250 mg/L originating from the STI. The mitigation action is designed to accomplish the mitigation action objective through the use of groundwater pumping to prevent the plume from migrating to existing drinking water supply wells. The spatial extent of the plume and the concentration of sulfate in drinking water supply wells are discussed in Section 3.2.1.

## 1.3 Role and Scope of the Mitigation Performance Review

The Mitigation Plan identifies the role of the mitigation performance reviews as the assessment of whether the mitigation action is performing as expected with respect to the mitigation action objective and numerical model predictions. The purpose of the mitigation performance review is to critically evaluate the operational and groundwater monitoring data collected for the mitigation action with respect to the observed plume behavior, mitigation action objective, and predicted plume

migration. The mitigation performance review may recommend modification of the mitigation action (i.e., increase, decrease, or relocation of groundwater pumping, or termination of pumping) if it is determined through analysis of the operational and monitoring data that a modification is needed to meet the mitigation action objective.

The mitigation performance review for 2015 uses mitigation facilities operation and groundwater monitoring data collected by Sierrita. The operations and groundwater monitoring data include:

- Pumping data for individual wells and the entire wellfield system
- Water quality data for drinking water supply wells and sentinel wells located between the plume and the drinking supply wells
- Water quality data from monitoring wells located within and downgradient of the plume
- Water level data from wells positioned to monitor drawdown in the vicinity of mitigation wellfields.

Mitigation facilities operation monitoring data are used to plan wellfield operation and maintenance (O&M) activities, and document groundwater pumping activities. The wellfield pumping data are compared to the pumping targets specified in the Mitigation Plan and used to update the numerical model. Water quality monitoring data are used to determine the extent of the plume, show the time trends of sulfate concentrations at various wells due to the mitigation action, and document sulfate concentrations in drinking water supply wells. Water level monitoring data are used to delineate groundwater potentiometric conditions in the vicinity of the plume and mitigation facilities, identify the capture zone created by mitigation pumping, and calibrate the numerical model.

The numerical model was updated for this mitigation performance review. The updated model incorporates the mitigation pumping for 2015, the most recent available agricultural and water supply pumping, and monitoring data for 2015. The updated model was used to simulate the 2015 capture zone of the mitigation wellfield and predict future migration of the plume under assumed pumping conditions.

The Mitigation Plan specifies that mitigation performance reviews are to be conducted and submitted to ADEQ annually for the first five years after full commissioning of the mitigation facilities and every five years thereafter. Under the Mitigation Plan schedule, performance review reports will be prepared for 2014, 2015, 2016, 2017, and 2018, and every five years thereafter. The adaptive management process described in Section 4.1 of the Mitigation Plan would be used in the event that the mitigation performance review indicates that the mitigation action objective is not being met or a significant modification of the mitigation action is needed.

# 2.0 GROUNDWATER PUMPING AND WATER MANAGEMENT FOR THE MITIGATION ACTION

## 2.1 Groundwater Pumping

The Mitigation Plan specifies groundwater pumping rates at four groups of wells: interceptor wells (IW), focused feasibility study (FFS) wells, plume stabilization (PS) wells, and mass capture (MC) wells. Figure 2 shows the locations of the groundwater extraction wells, pipelines, and pumping facilities for the mitigation action.

As described in the Feasibility Study and Mitigation Plan, there are different pumping objectives for groundwater extraction at the various well groups. The IW and FFS wells are pumped primarily for source control to capture seepage from the STI before it migrates to the regional aquifer. The PS wells at the northern edge of the plume are pumped in conjunction with the IW and FFS wells for the purpose of plume stabilization to control additional downgradient movement of the plume. The MC wells are pumped primarily to reduce the plume extent by extracting sulfate mass, although pumping the MC wells also contributes to plume stabilization.

The Mitigation Plan identifies two sets of pumping rates for the mitigation action: groundwater pumping rates for Alternative 3 (Table 1 of the Mitigation Plan and hereafter called "target" pumping rates) and performance goal pumping rates (Table 2 of the Mitigation Plan). The target pumping rates are meant to accomplish the source control, plume stabilization, and plume reduction objectives of Alternative 3 of the Feasibility Study. Performance goal pumping rates are meant to accomplish the objectives of source control and plume stabilization only.

### 2.1.1 Target Pumping Rates

The groundwater flow and sulfate transport model was used to identify the target pumping rates to meet the source control, plume stabilization, and plume reduction pumping objectives of the mitigation action. The target pumping rates are listed in Table 1. To accomplish plume reduction, the target pumping rates at the FFS and MC wells are greater than the rates needed for the source control and plume stabilization objectives only.

The numerical model was used to simulate future plume migration under the target pumping rates. The results of the simulation were included in the Mitigation Plan and are shown on Figure 3. The simulation results predict that the areal extent of the plume would decrease over time and that the sulfate plume would not reach public or private drinking water supply wells.

### 2.1.2 Performance Goal Pumping Rates

Table 2 lists performance goal pumping rates in the Mitigation Plan. Performance goal pumping rates are pumping rates that accomplish the source control and plume stabilization objectives, but not the plume reduction objective. The performance goal pumping rates would accomplish the mitigation action objective by preventing the plume from migrating to drinking water supplies, but would not reduce the extent of the plume over time. The performance goal pumping rates were determined using the numerical model to iteratively simulate various groundwater pumping schemes and identify the minimum extraction rates needed for source control and plume stabilization (Hydro Geo Chem, Inc. and Clear Creek Associates, 2010, Clear Creek Associates, 2014). In reviewing the Mitigation Plan, it was determined that the performance goal for well PS-1 was incorrectly listed as 750 gallons per minute (gpm) instead of 700 gpm. This error is corrected on Tables 2 and 3 of this report.

### 2.1.3 Considerations for Groundwater Pumping Rates

The target and performance goal pumping rates are initial estimates that were made for the purpose of the Mitigation Plan and were identified prior to the start of Mitigation Plan pumping. It is important to understand that the target and performance goal pumping rates are not unique in that there can be different combinations of pumping locations and rates that accomplish the mitigation action objective. Periodic assessment of the target and performance goal pumping rates is needed for several reasons. First, it is expected that additional calibration of the hydraulic properties in the numerical model will be needed as monitoring documents the water level response of the aquifer to mitigation pumping. Pumping may be found to be more or less effective than predicted as the aquifer response develops and the model is refined over time through recalibration. Changes to the model as part of ongoing calibration efforts may influence the degree to which the pumping specifications are determined to be appropriate or necessary to accomplish the mitigation action objective. Second, the extraction wells will change over time. For example, well IW-29 is a mitigation extraction well installed after the pumping rates in the Mitigation Plan were developed. Thus, the Mitigation Plan has no pumping specification for IW-29 though the well has been pumping since September 2014. Additionally, well maintenance factors may require changes in the locations of extraction wells over time as new wells are installed or the pumping rates at existing wells decline due to inefficiency as wells age. Changes in the location and pumping rate of wells over time can influence wellfield capture and need to be accounted for in setting target and performance goal pumping rates. Hence, the target and performance goal pumping rates are expected to vary over time as the mitigation action progresses.

## 2.2 Water Management

The sulfate-affected groundwater pumped under the Mitigation Plan is used for mining processes. The use of sulfate-affected groundwater allows Sierrita to reduce the amount of fresh groundwater pumped at the Canoa wellfield south of Green Valley. After mine closure, Sierrita may be able to manage sulfate-affected groundwater through discharge to the pit or through treatment of some or all of the groundwater, as described by the Feasibility Study.

# 3.0 MITIGATION FACILITIES OPERATION AND GROUNDWATER MONITORING RESULTS FOR 2015

This section describes groundwater pumping and the results of groundwater monitoring during 2015.

## 3.1 Mitigation Facilities Operation

Groundwater pumping under the Mitigation Plan is a continuous operation. Sierrita uses mine personnel and contractors to operate, monitor, and maintain the wells, pumps, pipelines, and other facilities required for the Mitigation Plan. Wellfield O&M is conducted pursuant to the Sulfate Mitigation Action Well Field Operation and Maintenance Plan submitted to ADEQ (BasinWells Associates, 2013).

Groundwater pumping under the Mitigation Plan began in January 2014 with the startup of the FFS, PS, and MC extraction wells. Wellfield operation and groundwater pumping for 2015 are summarized in an annual report prepared by BasinWells Associates and submitted to ADEQ (e.g., BasinWells Associates, 2016). The total groundwater withdrawal under the Mitigation Plan in 2015 was approximately 18,839 acre feet, pumped from 37 wells. Table 3 lists the total gallons pumped and average groundwater pumping rate for extraction wells during 2015, and compares the 2015 rates to the target and performance goal pumping rates of the Mitigation Plan.

The 2015 average wellfield pumping rate was 11,680 gpm, which is 82% of the target pumping rate of 14,330 gpm and 110% of the performance goal rate of 10,643 gpm. The IW, FFS, PS, and MC wells pumped at 79%, 90%, 73%, and 84%, respectively, of their target pumping rates, and 79%, 227%, 73%, and 175%, respectively, of their performance goal pumping rates.

BasinWells Associates (2016) reported run time percentages for the mitigation pumping wells. The mitigation wellfield had an average run time percentage of 66.4% considering all wells that pumped in 2015. Well run time percentages for the IW wells averaged 53.4% and ranged from 10.1% to 89.4% for wells that had pumpage in 2015. The 2015 run time percentages for the FFS, PS, and MC wells averaged 88.4%, 92.5%, and 88.5%, respectively. The wellfield-wide average run time is skewed low by IW wells that pump at low rates (less than 100 gpm) and have poor operational efficiency. Considering production in the evaluation of run time indicates a flow-weighted run time of 84%. Another way to characterize the flow-weighted run time is that the wells which produced 95% of the total flow in 2015 had an average run time of 81%. BasinWells Associates (2016) reports that the shutdown of wells occurred due to well and transmission line maintenance, non-pumping monitoring activities, and storage capacity limitations at the Mill Reservoir.

The numerical model was used to simulate the 2015 wellfield pumping rates and to examine the predicted sulfate plume migration under current expected conditions, as discussed in Sections 4 and 5. The results of the numerical modeling are used to evaluate whether the differences between the actual mitigation pumping rates and the target and performance goal pumping rates are significant with respect to the mitigation action objective and predicted long-term migration of the plume.

## 3.2 Results of Groundwater Monitoring

Sierrita conducts groundwater monitoring pursuant to the Post-Implementation Groundwater Monitoring Plan in the Mitigation Plan. Table 4 is the 2015 schedule for post-implementation groundwater monitoring. Well locations are shown on Figure 4. In 2015, thirteen (13) existing wells, CW-11, FICO C-4, FICO E-6, GV-01-PCWW, GV-02-PCWW, M-5, M-11, M-13, S-1, ST-6, 1225, 1795, and 2125, were added to the monitoring schedule for water level measurement. Water level data from the additional wells provide information north and east of the plume, and allow more confident extrapolation of data for water level contour maps (Section 3.2.2). The monitoring schedule was also increased to include more water level measurements in the fourth quarter to allow development of water level contour maps for both the second and fourth quarters of the year.

Post-implementation groundwater monitoring includes quarterly water quality sampling for sulfate at sentinel and drinking water supply wells. Data collected for groundwater monitoring are reported to ADEQ semiannually. The results of groundwater monitoring in the first through third quarters of 2015 are contained in two reports submitted to ADEQ (Clear Creek Associates, 2015a and 2015b). Groundwater monitoring data for the fourth quarter 2015 will be submitted in the semiannual report due May 31, 2016. The methods of groundwater monitoring are described in the semiannual groundwater monitoring reports.

### 3.2.1 Sulfate Concentration Data

Groundwater samples are collected to measure sulfate concentrations over time. The sulfate concentration data are used to delineate the sulfate plume, document water quality trends in the aquifer, and determine sulfate concentrations at and in the vicinity of drinking water supply wells. The sulfate concentration data are also used to calibrate the sulfate transport model. Sulfate determinations are made on a dissolved basis. Sulfate concentration data collected under the Mitigation Order are compiled in Appendix A.

#### *3.2.1.1 Plume Extent*

The geographic extent of the plume is determined by the extent of sulfate concentrations exceeding 250 mg/L. Figure 5 is a sulfate concentration map for the second quarter of 2015. Second quarter 2015 sulfate concentration data were used for constructing Figure 5 rather than fourth quarter 2015

data because the second quarter data are greater in number and geographic extent, and because there were no significant changes in sulfate concentrations between these two quarters in the wells that were sampled in both quarters.

Comparison of the sulfate concentration data for the second quarter of 2015 with data collected in previous quarters indicates that there has been no significant change to the overall plume geometry since 2006, except in the vicinity of the MO-2007-1 wells, where northward migration of the plume occurred prior to implementation of the Mitigation Plan. Figure 6 shows that sulfate concentrations in MO-2007-1B and MO-2007-1C at the north end of the plume increased above 250 mg/L between 2009 and 2011; indicating downgradient migration of the plume. The sulfate concentration at MO-2007-1B remains greater than 250 mg/L, but the concentration at MO-2007-1C declined below 250 mg/L in 2013 and remained less than 250 mg/L in 2014 and 2015. The mitigation plan groundwater pumping initiated in 2014 is designed to limit the northward migration of sulfate concentrations in excess of 250 mg/L.

#### *3.2.1.2 Drinking Water Supply and Sentinel Wells*

Groundwater monitoring includes quarterly water sampling at drinking water supply wells and sentinel wells positioned laterally between the plume and drinking water supply wells (Figure 4). Figures 7 and 8 show sulfate concentrations from 2006 through 2016 at drinking water supply and sentinel wells. Sulfate concentrations at drinking water supply wells in 2016 were all less than 95 mg/L. Concentrations at all the drinking water supply wells are steady or declining over time, except for CW-6. Sulfate concentrations at CW-6 increased to approximately 92 mg/L between 2010 and mid-2013. The sulfate concentration at CW-6 has ranged between 85 mg/L and 95 mg/L since mid-2013.

Sentinel wells are meant to detect the plume before it could migrate to drinking water supply well. Sulfate concentrations at sentinel wells were all less than 105 mg/L in 2015. Sulfate concentrations in sentinel wells in the fourth quarter of 2015 ranged from non-detect (less than 0.5 mg/L) at MO-2006-3B to approximately 69 mg/L at MO-2009-1.

The sulfate concentrations at drinking water supply and sentinel wells were less than the 250 mg/L mitigation action objective and the 135 mg/L action level set in the Mitigation Plan. If exceeded, the action level triggers written notice to ADEQ and the supply owner/operator, more frequent groundwater monitoring, and, in the case of a drinking water supply well, development of a mitigation plan for the well. The sulfate concentration data for drinking water supply wells and sentinel wells indicate that the mitigation action objective is being met.

#### *3.2.1.3 Sulfate Concentrations in Mitigation Extraction Wells*

Sulfate concentration data for the mitigation extraction wells characterize conditions in the plume, which is where most extraction wells are located. Sulfate concentrations at extraction wells within the plume are generally greater than 1,000 mg/L (Figure 5). Sulfate concentrations at the extraction wells vary in magnitude depending on their position relative to the plume; with extraction wells near the tailing impoundment having higher concentrations than those farther from the tailing impoundment. Water from well IW-2A at the southeast corner of the tailing impoundment has the lowest sulfate concentration of the extraction wells; less than 250 mg/L. The low sulfate concentrations occur because groundwater pumping at IW-2A draws in unaffected groundwater from south of the STI, which dilutes and displaces the plume.

Appendix B contains graphs of sulfate concentration in mitigation extraction wells since 2006. The graphs show that sulfate concentrations at most extraction wells do not have significant increasing or decreasing trends over time, although concentrations at an individual well can vary over a range of 400 mg/L. The lack of an increasing or decreasing trend indicates that the source concentrations have not increased or decreased over time and that there is little dilution occurring within the plume.

#### *3.2.1.4 Sulfate Concentrations in Monitoring Wells Marginal to the Plume*

Sulfate concentrations in wells outside of and marginal to the sulfate plume can be used to discern plume migration. For example, an increase of sulfate to greater than 250 mg/L at a well outside the plume would be evidence of plume migration, if the sulfate is due to the STI.

The sentinel wells NP2, MO-2007-3B, MO-2007-3C, MO-2007-4A, MO-2007-4B, MO-2007-4C, MO-2009-1, MO-2007-6A, as well as wells ESP-2 and ESP-3 are monitoring wells along the east margin of the plume (Figures 4 and 5). Sulfate concentrations in the sentinel wells are not increasing and several sentinel wells have had declining concentrations since 2013, as shown on Figure 8. Sulfate concentrations in ESP-2 and ESP-3 were less than 37 mg/L sulfate in 2015 and have been relatively steady since 2006 (Figure 9). These data indicate no measurable eastward movement by the sulfate plume during 2015.

Northward movement of the plume prior to the 2014 start of Mitigation Plan pumping is indicated by increasing sulfate concentrations at MO-2007-1 (Figure 6). Monitoring wells north of MO-2007-1 do not have elevated sulfate concentrations, but the screened intervals of those wells do not monitor the entire saturated thickness of the basin fill. For this reason, there is uncertainty in the exact location of the north boundary of the plume. As explained in the semiannual groundwater monitoring reports, the northern position of the 250 mg/L sulfate concentration contour has been inferred based on groundwater velocity calculations. Pursuant to the Contingency Plan, Sierrita will install additional groundwater monitoring wells at the north end of the plume in 2016 to better delineate the plume edge and potentiometric conditions.

### 3.2.2 Water Level Data

Water level measurements document potentiometric conditions, which determine hydraulic gradients and groundwater flow directions. These data are also used for capture zone analysis, evaluation of capture effectiveness, and calibration of the groundwater flow model.

Water level measurements for 2015 are available from both the groundwater monitoring program and the wellfield O&M program. These data were compiled and used to characterize water levels during the first year of pumping under the Mitigation Plan. The water level data are contained in Appendix C.

Two types of water level data are available: static and dynamic. Static water level measurements are collected from non-pumping wells and represent the potentiometric head of the aquifer. Dynamic water level measurements are measurements collected at operating pumping wells. Dynamic water levels can be influenced by water table drawdown due to pumping and additional head losses due to well efficiency. The dynamic water levels reported here have not been corrected for well efficiency or other head losses. Nonetheless, dynamic water level measurements are useful for providing important information on potentiometric conditions in the active portion of the wellfield where the water level is being lowered to capture the sulfate plume.

Water levels measured at wells that have been pumping a long time, such as drinking water supply wells, may have a component of residual drawdown even though they were inactive when the water level was measured. Residual drawdown occurs when the water level in a well has not yet returned to its static level after pumping stops. For example, a well pumped for 18 hours and shut down for 4 hours prior to water level measurement may not have attained its full static level. In practice, the degree of water level recovery in a well after pumping is a site-specific characteristic depending on the hydraulic properties of the aquifer and the well. Some degree of residual drawdown may be possible in measurements made at mitigation pumping wells and drinking water supply wells because they are pumped for long periods.

#### *3.2.2.1 Water Elevation Maps*

Figures 10, 11, and 12 are hand-contoured water elevation maps for the second quarter of 2013 and the second and fourth quarters of 2015, respectively. Both static and dynamic water levels are posted on the maps to show the drawdown associated with the pumping wells. The 2013 map is shown to illustrate conditions prior to the start of Mitigation Plan pumping.

Comparison of Figures 10, 11, and 12 shows changes in the water elevation surface since the start of pumping under the Mitigation Plan. Prior to 2014, water elevation depressions were associated with the IW wells pumping along the east end of the STI and groundwater flow was from the east end of the STI northeasterly toward Green Valley. The start of Mitigation Plan pumping in 2014 caused

additional water elevation depressions to develop at the FFS, PS, and MC wells. The water elevation depressions are based on dynamic water level measurements from the pumping wells, but are corroborated by static measurements at nearby monitor wells. The depressions occur due to the constructive interference of overlapping drawdown cones associated with the extraction wells.

The pumping-induced depressions in the vicinity of the FFS, PS, and MC wells caused the orientation of the water elevation contours and the groundwater flow pattern to change from the 2013 pre-Mitigation Plan condition. Groundwater flow is perpendicular to equipotential lines and in the direction of the lowest groundwater elevation. The water elevation data indicate that the groundwater flow direction in the vicinity of the FFS, PS, and MC wells changed from northeast in 2013 to being toward the depressions in 2014 and 2015. The change in flow toward the extraction wells creates a zone of groundwater capture around the extraction wells in which sulfate plume water flows to the extraction wells and is pumped from the aquifer. A capture zone analysis based on the groundwater flow directions indicated by the water elevation maps is discussed in Section 4.3.

*3.2.2.2 Hydrographs*

Figure 13 shows time series graphs of groundwater elevation at the sentinel wells. The time series graphs show that water levels at these wells have declined at rates ranging from 2.6 to 5.7 feet per year since 2007. Groundwater elevations at the sentinel wells are typically slightly higher in the first and second quarters of the year than during the third and fourth quarters, probably due to seasonal irrigation pumping in the Green Valley area. The rate of water level decline increased in 2014 at MO-2007-3B, -3C, -4A, -4B, and -4C and NP-2 due to the start of Mitigation Plan pumping, as described below.

Under the Post-Implementation Groundwater Monitoring Plan, the frequency of static water level measurements was increased at select monitoring wells, including the sentinel wells, in the immediate vicinity of the extraction wells (Figure 14, Table 4). The additional water level monitoring consisted of monthly measurements from 2014 to June 2015 followed by quarterly measurements through the first quarter of 2016. The wells with monthly water level measurements cover a large geographic area around the extraction wells. The additional water level measurements were made to document water elevation changes during the start of pumping, when the effects of drawdown due to pumping are most pronounced. Hydrographs for the wells with monthly measurements in 2015 are in Appendix D. The date range on the hydrographs is from 2006 through 2015 to show conditions before and after the January 2014 start of Mitigation Plan pumping.

The hydrographs in Appendix D display several patterns. Wells that show the most immediate and sustained apparent effects of the start of Mitigation Plan pumping are in the northern portion of the wellfield: MH-25A, -25B, and -25C; MH-26A, -26B, and -26C; MO-2007-1A, -1B, -1C, -2, -3B, -3C, -4A, -4B, and -4C; ESP-2, M-8, and NP-2. These wells display two line segments: a

pre-2014 segment with a negative slope of about 1.0 to 1.4 feet/year and a post-2014 slope with a negative slope of approximately 15 to 20 feet/year starting in 2014. These wells are close to the FFS, PS and MC extraction wells and the increase in slope in 2014 is interpreted to be drawdown that occurred rapidly at the start of Mitigation Plan pumping.

Wells in the southern portion of the wellfield also show the effects of pumping, but water level patterns are more complex than in the northern portion. CW-3; MH-3, -11, and -28; MO-2007-5B and -5C; and MO-2009-1 show a steepening of the water level decline in 2012 or 2013, prior to Mitigation Plan pumping, with the rate of decline increasing in 2014 or remaining constant. Wells MH-9, -28, -29, 15E, -15W, -16E, and 16W; and MO-2007-6A and -6B near the tailing impoundment display water level increases or a decrease in the rate of water level decline in 2014 and 2015.

The water level hydrographs document the development of the potentiometric field around the extraction well system. The various hydrograph patterns are the result of the local hydraulic properties and boundaries of the aquifer, the distance of the observation point from the wellfield, pre-existing water level decline patterns, and the superposition of overlapping cones of depression around pumping wells. The data indicate a high degree of hydraulic connectivity in the aquifer because the response to pumping is evident over a large area that encompasses the extent of the plume. This large area of influence is needed to establish hydraulic control over the migration of the plume.

# 4.0 CAPTURE ZONE ANALYSIS

The capture zone of the mitigation wellfield is the three dimensional region within which groundwater flows to the extraction well system where it is removed from the aquifer. Capture zone analysis consists of semi-quantitative and quantitative evaluations of field measurements and numerical groundwater flow modeling results to assess the degree of wellfield capture.

The capture zone analysis was conducted using the methods in the 2008 U.S. Environmental Protection Agency guidance document on evaluation of capture zones (Environmental Protection Agency [EPA], 2008), as requested by ADEQ (2009). EPA (2008) outlines the following steps for using multiple lines of evidence to develop a weight of evidence assessment of a capture zone.

- Step 1 - Review of site data, site conceptual model, and remedy objectives
- Step 2 - Define site-specific target capture zone
- Step 3 - Interpret water levels
- Step 4 - Perform calculations
- Step 5 - Evaluate concentration trends
- Step 6 – Interpret actual capture based on Steps 1 to 5, compare to target capture zone, assess uncertainties and data gaps

## 4.1 Site Data Review, Site Conceptual Model, and Mitigation Action Objective

Site data relevant to Step 1 of the capture zone analysis, including descriptions of the hydrogeology, hydraulic properties, water quality, and site conceptual model, are contained in the Aquifer Characterization Report (Hydro Geo Chem, Inc., 2009) and Feasibility Study (Hydro Geo Chem, Inc., 2008). Section 3 of this report describes the operational, water level, and sulfate concentration data for current conditions.

The site conceptual model described in the Aquifer Characterization Report has not changed over time. The source of sulfate in the plume is considered to be seepage from the STI to the basin fill beneath the tailing impoundment. The sulfate plume is formed as the sulfate-affected seepage mixes with groundwater in the basin fill and migrates east and north from the STI. The plume is contained within the basin fill aquifer, which is underlain by bedrock with a significantly lower hydraulic conductivity than the basin fill. Groundwater pumping to capture the plume is focused in the basin fill aquifer close to the STI and along the axis of the plume (Figures 2 and 3). The bedrock aquifer is

not targeted for groundwater pumping because its low permeability limits sulfate migration into the bedrock.

The hydraulic properties of the basin fill have been determined through aquifer testing as described in the Aquifer Characterization Report. The water elevation configuration and extent of sulfate-affected groundwater in the basin fill are well documented by the groundwater monitoring conducted since 2007 for the Mitigation Order (Section 3.2). The water elevation configuration over time did not change significantly between the start of Mitigation Order monitoring in 2007 and the start of Mitigation Plan pumping in January 2014, as described in Section 3.2.2.1; indicating that the basin fill aquifer in the vicinity of the plume is not subject to significant transient phenomena, such as seasonal changes in groundwater flow direction, that can complicate pumping-based plume control actions.

The mitigation action objective is identified in Section 1.2. The Mitigation Plan identifies specific action levels for sulfate concentrations at drinking water supply wells and sentinel wells, in the contingency that the plume migrates in an unexpected way. The drinking water supply and sentinel wells in the vicinity of the plume are monitored quarterly to determine concentrations with respect to action levels.

### 4.2 Target Capture Zone

The site-specific target capture zone represents the zone of groundwater that must be captured by the mitigation wellfield to prevent substantive downgradient migration of the plume and meet the mitigation action objective. The 250 mg/L sulfate concentration contour for the fourth quarter of 2015, which defines the edge of the plume, is selected as a preliminary target capture zone for Step 2 of the capture zone analysis. The target capture zone extends from the water table to the base of the basin fill aquifer because elevated sulfate within the plume occurs across the entire saturated thickness of the basin fill, although some dilute zones are known to occur at the top of the basin fill aquifer (Hydro Geo Chem, Inc., 2009).

### 4.3 Capture Zone Indicated by Water Elevation Mapping

The approach used to interpret water level data for Step 3 of the capture zone analysis is to evaluate groundwater flow directions based on the water elevation maps. EPA (2008) identifies water elevation mapping and flow line interpretation as a method of water level interpretation for capture zone assessment. Groundwater flow lines are interpreted as being orthogonal to water elevation contours and in the direction of lower potential (i.e., groundwater flows from higher groundwater elevations to lower elevations). The water elevation depressions that develop around pumping wells are zones of internal flow, or hydraulic sinks, from which groundwater is extracted from the aquifer.

Water elevation mapping is used to identify hydraulic sinks and flow line interpretation is used to evaluate the extent of capture developed by the hydraulic sinks created by mitigation pumping.

Figures 15, 16, and 17 show the interpreted groundwater flow lines and capture zones for the second quarter of 2013 and the second and fourth quarters of 2015, respectively, based on previously presented water elevation maps. The flow lines are hand drawn to be perpendicular to the water elevation contours. The capture zones are interpreted based on the groundwater flow direction.

Comparison of Figures 15, 16, and 17 indicates a significant change in groundwater flow directions with the start of Mitigation Plan pumping in 2014. In 2013, groundwater flowing from the portion of the aquifer immediately downgradient of the IW wells flowed easterly and then northerly into the regional aquifer (Figure 15). The 2013 capture zones of the IW wells were narrow zones around the northern IW wells and broader zones around the southern IW wells. The initiation of groundwater pumping under the Mitigation Plan caused groundwater levels to decline in the vicinity of the FFS, PS, and MC wells, and created depressions that act hydraulic sinks. The hydraulic sinks around the FFS, PS, and MC wells operate in conjunction with the IW wells and add to the total capture due to groundwater pumping. The groundwater flow pattern that developed in 2014 was maintained through 2015 due to pumping conducted for the Mitigation Plan. The groundwater flow pattern in 2015 is one in which groundwater that is outside the capture zones of the IW wells flows to and is captured by the hydraulic sinks around the FFS, PS, and MC extraction wells (Figures 16 and 17). The capture zones of the IW, FFS, PS, and MC wells coalesce to create a total wellfield capture zone interpreted as extending east from the STI to Green Valley and north to the PS wells near Duval Mine Road.

EPA (2008) points out that because water elevation contour maps require interpolation of water elevations at points between measurements they can be susceptible to bias whether they are hand drawn or drawn based on interpolation algorithms. EPA (2008) recommends creating water elevation maps by multiple methods to check for potential bias. The fourth quarter 2015 water elevation data were analyzed with Kriging software to develop an independent water elevation map for comparison with the hand contoured map. Kriging is a geostatistical interpolation technique commonly applied for spatial analysis of correlated hydrogeologic phenomena (e.g., water level, hydraulic property, and hydrochemistry data).

Figure 18 shows a fourth quarter groundwater elevation map estimated by Kriging. Also on Figure 18 are inferred groundwater flow lines and the interpreted wellfield capture zone. The Kriged water elevation contours show a similar pattern as the hand drawn contours (Figure 17), although the two interpretations differ in detail, especially near the IW wells, where water levels change significantly over short distances, and near well CW-9. The Kriged map interprets a larger groundwater depression at CW-9 than does the hand drawn map. The result is that the Kriged map shows a larger

capture zone for CW-9 that limits the eastward extent of the mitigation wellfield capture zone. Overall, the groundwater flow lines and wellfield capture zone inferred from the Kriged and hand-contoured maps are similar. The similarity of the hand-drawn and Kriged maps supports the conclusion that the hand-drawn contours provide an objective interpretation.

## 4.4 Capture Zone Indicated by Numerical Modeling

The complicated geometry of the mitigation wellfield precludes the use of simple analytical equations for Step 4 of the capture zone analysis. Numerical simulation of the hydraulic head field created by pumping was used for the quantitative assessment of the capture zone. The numerical model for groundwater flow and sulfate transport was updated to simulate the capture zone for mitigation action pumping through 2015.

The numerical model update is described in Appendix E. The numerical model was updated with mitigation action pumping through 2015. Regional (non-Sierrita) pumping, such as municipal and agricultural pumping, was updated through 2013, 2014, or 2015, depending on the owner's most recent filings with Arizona Department of Water Resources. Recharge sources, such as seepage from the STI and recharge from wastewater treatment facilities, were updated based on information available through 2015 for the STI and through 2013 for other recharge sources.

Figure 19 shows the fourth quarter 2015 sulfate distribution simulated by the updated model. The simulated extent of the sulfate matches the observed extent well, although the model underestimates the eastern extent of the plume east of the STI and near the PS wells. The capture zone indicated by the updated numerical model for groundwater pumping through 2015 is shown on Figure 20. The capture zone is interpreted from gradient vector plots created with the predicted groundwater elevations. Three capture zone outlines are shown on Figure 20 because slightly different capture zones are indicated for layers 1, 2, and 3 of the model.

## 4.5 Evaluation of Sulfate Concentration Trends

Step 5 of EPA's approach to capture zone evaluation uses sulfate concentration data from outside the plume as a means of interpreting capture. The use of concentration trend data for wells outside the plume is based on the concept that sulfate concentrations should not increase above the mitigation action objective in wells downgradient of the target capture zone if the plume is not migrating, and that concentrations should decrease in wells with elevated sulfate immediately downgradient of the target capture zone. EPA (2008) states that one potential problem with using concentration data is that it may take years for concentrations to change because groundwater velocities are generally slow. The sulfate data for the drinking water supply and sentinel wells, and ESP-2 and ESP-3

(Section 3.2) are used to evaluate sulfate concentration trends for Step 5 of the analysis because these wells are outside the target capture zone of the 250 mg/L sulfate concentration contour (Figure 5).

Drinking water and sentinel well sulfate concentrations are shown on Figures 7 and 8, respectively. Sulfate concentrations at 4 of the 5 drinking water supply wells declined or were steady from 2006 to the fourth quarter of 2015. The CW-6 drinking water supply well increased from approximately 50 mg/L sulfate up to 92 mg/L from 2010 to 2013, declined slightly in 2013 and 2014 and ranged from 80.5 mg/L to 94.8 mg/L in 2015. The sentinel wells do not show increasing trends in sulfate concentration over the period from 2006 to 2015, although several wells show short term increases and decreases on the scale of several years. Sulfate concentrations in sentinel wells NP-2, MO-2007-3B, -3C, -4B, -4C and -6A, and MO-2009-1 have declined since 2013. Sulfate concentrations at MO-2007-6B increased to 91.5 mg/L between 2013 and January 2014, and decreased to 64.3 mg/L by the second quarter of 2015, before the water level at the well declined to a point that precludes sampling.

Figure 9 shows sulfate over time at wells ESP-2, ESP-3, and ESP-4. These wells lie along the east edge of the plume (Figure 2). Sulfate concentrations at ESP-2 and ESP-3 have been steady at less than 40 mg/L since 2006. ESP-4 has been within the plume since 2006, but is close to the plume edge. ESP-4 declined in sulfate concentrations from a maximum of approximately 619 mg/L in 2012 to 352 mg/L in 2014, and ranged from 420 mg/L to 423 mg/L in 2015.

The drinking water supply, sentinel, and ESP wells do not show sulfate concentration trends suggestive of an advancing plume migration. The lack of continuously increasing concentrations at drinking water supply wells and the decreasing concentrations at the sentinel wells and in ESP-4 since 2013 are interpreted as evidence there is negligible plume migration to the east. The lack of eastward plume migration is consistent with the capture zone interpreted from water elevation maps and numerical modeling results. As discussed in Section 3.2.1.1, incomplete well coverage at the north end of the plume limits the interpretation of trends in that area.

### 4.6 Comparison of Wellfield Capture Zone to Target Capture Zone

Step 6 of the capture analysis is to compare the target capture zone to the wellfield capture zone determined from site monitoring data. The target capture zone is the 250 mg/L sulfate concentration contour that defines the sulfate plume. Figures 21 and 22 compare the fourth quarter 2015 wellfield capture zones determined for the hand contoured water level data and by the numerical model simulation, respectively, to the target capture zone.

The wellfield capture zone interpreted from fourth quarter 2015 water elevation data (Figure 21) overlaps most of the target capture zone; indicating that the majority of groundwater with sulfate

greater than 250 mg/L is being captured by the mitigation wellfield. The wellfield capture zone does not overlap the northern end of the target capture zone northeast of the PS wells. The wellfield capture zone indicated by numerical modeling (Figure 22) also overlaps the majority of the target capture zone, but, like the capture zone based on groundwater elevations, does not overlap the northern-most portion of the target capture zone.

Affected groundwater that is outside the wellfield capture zone could possibly migrate northward as Mitigation Plan pumping continues. Factors that could prevent or mitigate northward movement of the plume outside the wellfield capture zone are the reduced hydraulic gradient at the north end of the wellfield capture zone and expansion of the wellfield capture zone over time. There is also uncertainty in the location of the northern plume edge, as discussed in Section 4.7.

The hydraulic gradient between the MO-2007-1 and TMM-1 wells at the front of the plume near the PS wells declined significantly at the start of Mitigation Plan pumping. For example, the hydraulic gradient between MO-2007-1C and TMM-1 decreased from 0.0106 and 0.0087 in the second and fourth quarters of 2013, respectively, to 0.0024 and 0.0043 in the second and fourth quarters of 2014, respectively, based on the measurements reported in Appendix C. There are no water level data for TMM-1 in 2015 because the water level dropped below the depth of the sounding tube. The hydraulic gradients between MO-2007-1C and M-9 (north of TMM-1) in the second and fourth quarters of 2015 were 0.0015 and 0.0028, respectively; indicating maintenance of the low hydraulic gradient conditions.

The reduction in hydraulic gradient results in an equivalent percentage reduction in the groundwater velocity. Thus, the plume velocity at the northern front is significantly less than it was prior to the start of Mitigation Plan pumping; on the order of 70 to 130 feet per year in the second and fourth quarters of 2015 versus 400 to 480 feet per year in the second and fourth quarters of 2013, based on the hydraulic gradients above.

Numerical modeling predicts that the wellfield capture zone will expand northward approximately 1,000 feet by 2020. The reduced groundwater velocity and expansion of the wellfield capture zone may mitigate the potential for northward migration of the portion of plume outside the wellfield capture zone. Section 5 describes groundwater flow modeling conducted to assess the potential future plume migration under current and projected conditions.

## 4.7 Uncertainties

EPA (2008) recommends identifying uncertainties in the capture zone analysis. Key uncertainties in the current analysis are related to the position of the northern plume edge and the use of the 250 mg/L sulfate concentration contour as the target capture zone.

The exact position of the northern edge of the plume is uncertain and is currently estimated based on groundwater velocity calculations as discussed in Section 3.2.1.4. That uncertainty translates to uncertainty in the target capture zone. Additional groundwater monitoring wells will be installed in 2016 to better define the northern extent of the plume.

The 250 mg/L sulfate concentration contour defining the plume was selected as the target capture zone as a conservative (tending to overestimate) estimate of the region requiring capture to meet the mitigation action objective. Use of the plume outline is conservative.. First, the location of the 250 mg/L contour is estimated based on the highest sulfate concentration measured at co-located wells and may not be representative of the true depth-averaged concentration. Second, and with specific importance to the northern extent of the plume, the position of the 250 mg/L sulfate concentration contour is estimated based on groundwater velocities calculated using high range values for the hydraulic gradient and hydraulic conductivity. The use of high range values for these parameters, rather than average values, is likely to overestimate the average groundwater velocity and, consequently, would show the position of the plume farther north than it may be. Third, it may be possible to meet the mitigation action objective with a target capture zone that is within the plume outline. For example, a small portion of the plume not captured by the wellfield, such as the northern portion of the plume outside the wellfield capture zone, may migrate slowly enough that it is diluted over time by advective and dispersive mixing with low sulfate groundwater.

Additional uncertainties in the analysis are related to the potential estimation error inherent in the interpretation of groundwater monitoring data. Identification of the wellfield capture zone based on water level interpolation and simulation, and delineation of the plume edge based on groundwater sampling are examples of variables potentially subject to estimation error. The estimation uncertainty in the present analysis is managed through the use of multiple lines of evidence and by having a monitoring data set collected at a relatively large network of groundwater monitoring wells.

# 5.0 NUMERICAL SIMULATION OF FUTURE PLUME MIGRATION

The numerical model was used to predict the future plume migration under expected pumping conditions. Mitigation pumping in the next several years is expected to be reduced due to a potential curtailment of mining at Sierrita.

In late 2015 and early 2016, Freeport-McMoRan Inc. announced that it would temporarily curtail production at Sierrita by 50% to 100% because of low commodity prices (Freeport-McMoRan Inc., 2015 and 2016). Mitigation action pumping would be reduced during either a 50% or 100% curtailment because mine processes would use less water.

Sierrita provided a Notice of Contingency Plan and a Contingency Plan to ADEQ in November 2015 (Sierrita, 2015b and Clear Creek Associates, 2015c). ADEQ recommended changes to the Contingency Plan in January 2016 (ADEQ, 2016a). A revised Contingency Plan including ADEQ's recommendations was submitted in February 2016. ADEQ found the revised Contingency Plan to be acceptable in March 2016 (ADEQ, 2016b). The Contingency Plan identifies mitigation action pumping rates for use during a curtailment in lieu of the pumping rates in the Mitigation Plan. If a curtailment occurs, its duration would be uncertain as it would depend on market conditions, but would likely exceed one year.

The Contingency Plan pumping assumptions were used as the best available projection of likely future conditions, assuming a temporary, five-year, mine curtailment (through 2020). The modeling results allow evaluation of the predicted migration of the plume under Contingency Plan pumping rates (Table 5) as compared to the target pumping rates (Section 3.1 and Table 3).

The methodology for the predictive simulations is described in Appendix E. The predictive simulations are based on pumping projections for the mitigation action, projections of future regional groundwater pumping and recharge by the Upper Santa Cruz Pumpers and Users Group (2012), and estimates of future STI seepage through the projected end of mine life in 2089.

## 5.1 Prediction of Future Plume Migration

Predictive simulations of sulfate plume movement were used to assess the adequacy of mitigation action pumping. A simulation was conducted assuming the Contingency Plan pumping rates for the IW, FFS, PS, and MC wells. The Contingency Plan pumping rates are listed on Table 5. These rates assume a pumping reduction from 2016 through 2020 and post-2020 pumping at the average 2014 pumping rate in all wells except the PS wells, which pump at 1,020 gpm more than their 2014 average. The post-2020 pumping rate for the Contingency Plan totals 13,126 gpm, whereas the post-

2020 target rates range from 12,970 gpm to 14,380 gpm. The simulated 250 mg/L sulfate concentration contours at the end of 2020, 2040, 2060, 2080, and 2100 for the Contingency Plan pumping rates are shown on Figure 23.

The simulation results for Contingency Plan pumping show that the east margin of the plume migrates westward between 2016 and 2060, and that the bulk of the plume is located beneath Sierrita property by 2060, where it is predicted to remain through 2100. Sulfate concentrations exceeding 250 mg/L are predicted to extend north from the PS wells through 2080, although these remnants of the plume are not predicted to migrate significantly over time and are predicted to dilute to less than 250 mg/L by 2100. Sulfate concentrations in drinking water supply wells north of the PS wells are not predicted to exceed 250 mg/L.

Based on the simulation results, pumping at the Contingency Plan rates would achieve the mitigation action objective of protecting drinking water supplies. The significance of the differences between future Contingency Plan pumping rates and the target pumping rates is shown by comparing Figures 3 and 23. The predicted plume for the Contingency Plan pumping rates has a similar eastward extent as the predicted plume for the Mitigation Plan target pumping rates (Figure 3), but differs by having remnants of the plume extending northward from the PS wells through 2080. However, the Mitigation Plan target rates and the Contingency Plan pumping rates are both predicted to meet the mitigation action objective. Changes made for the update and for calibration of the model are another source of differences between the predicted migration of the plume under the target and Contingency Plan pumping rate scenarios. Even minor changes to the boundary conditions or hydraulic specifications of the model can result in noticeable changes in the shape and position of the future plume. Variations in model predictions due to its ongoing update and refinement are an inevitable consequence of the modeling process.

# 6.0 ASSESSMENT OF MITIGATION ACTION

## 6.1 Assessment of Mitigation Action Performance

The mitigation action is meeting the mitigation action objective and is judged to be performing as expected based on the results of groundwater monitoring and numerical modeling. Based on the currently available data, there is no need to modify the Mitigation Plan action due to performance at this time. However, mitigation pumping may be reduced in 2016 due to a curtailment of mining operations. Pumping in 2016 would be conducted within the specifications of the Contingency Plan (Table 5) if a 50% to 100% curtailment occurs.

## 6.2 Mitigation Pumping Program

The capture zone analysis in Section 4 indicates that the 2015 capture zone generated by the mitigation wellfield encompasses the majority of the sulfate plume, but that capture is uncertain at the northern extent of the plume. In 2016, additional groundwater monitoring wells will be installed at the northern edge of the plume to better define its northern extent. Pursuant to the Contingency Plan, groundwater pumping would be increased at the PS wells in 2016 to increase the hydraulic control at the northern extent of the plume.

As discussed in Section 5, simulation of future plume migration assuming the Contingency Plan pumping rates from 2016 through 2100 predicts that residual plume concentrations may remain in the vicinity of the PS wells through 2080, but that the plume does not migrate significantly or affect drinking water supplies. Based on groundwater modeling results, groundwater pumping through 2015 and future pumping at the Contingency Plan pumping rates are predicted to meet the mitigation action objective.

## 6.3 Wellfield Operating and Monitoring Program

The wellfield O&M program met its operational objective of providing continuous operation of the mitigation wellfield. The mitigation wellfield, which is comprised of 37 extraction wells, several pumping stations and storage tanks, and miles of pipeline, had a wellfield-wide run time percentage of 66.4%, while critical wells that produced 95% of the total flow in 2015 had an average run time of 81%. (Section 3.1). The wellfield O&M program also met the monitoring objective of providing pumping and water level information for use in the performance review. Based on the 2015 results there is no need to modify the wellfield O&M program.

## 6.4 Groundwater Monitoring Program

The Mitigation Plan identifies the following objectives for the Post-Implementation Groundwater Monitoring Plan.

- Monitor wells along the plume edge to track the location of the plume over time
- Monitor sulfate in sentinel and drinking water supply wells near the plume to verify that sulfate concentrations are less than 250 mg/L
- Document water level and sulfate concentrations in the vicinity of the mitigation wellfield to assess mitigation progress.

The groundwater monitoring program met its objectives of collecting sulfate concentration and water level data needed to determine the extent of the plume, document sulfate concentrations at sentinel and drinking water supply wells, and evaluate wellfield capture.

Sierrita will continue to monitor groundwater conditions and drinking water supplies pursuant to the Post-Implementation Groundwater Monitoring Plan. As discussed in Section 3.2, thirteen (13) existing wells were added to the monitoring plan in 2015 for water level measurement. Under the Contingency Plan, the frequency of groundwater sampling at wells east and north of the plume (ESP-2, ESP-3, M-8, M-9, and M-10) would be increased to quarterly during the mine curtailment.

Sierrita will install additional groundwater monitoring wells at the northern end of the plume to address uncertainty in the location of the plume (Sections 3.2.1.4 and 4.7). The wells will be positioned to identify the plume edge and characterize water levels northeast of the PS wells. The additional monitoring wells will provide data with which to better assess capture at the north end of the plume. Contractor selection for the new monitoring wells began in the first quarter of 2016.

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# TABLES

# TABLE 1
## Target Pumping Rates for Mitigation Action

| Well Name | ADWR Registry Number | 2014-2020 | 2021-2025 | 2026-2030 | 2031-2035 | 2036-2042 | 2043-2050 | 2051-2060 | 2061-2089 | 2090-2112 |
|---|---|---|---|---|---|---|---|---|---|---|
| IW-01 | 623129 | 250 | 250 | 250 | 250 | 188 | 80 | 80 | 80 | 80 |
| IW-02A | 216464 | 300 | 300 | 300 | 300 | 300 | 200 | 200 | 200 | 200 |
| IW-03A | 201732 | 500 | 500 | 500 | 500 | 400 | 400 | 300 | 300 | 300 |
| IW-04 | 623132 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| IW-05A | 623133 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| IW-06A | 545565 | 80 | 80 | 80 | 80 | 40 | 40 | 40 | 40 | 40 |
| IW-08 | 508238 | 350 | 350 | 350 | 350 | 325 | 200 | 200 | 200 | 200 |
| IW-09 | 508236 | 200 | 200 | 200 | 200 | 150 | 150 | 150 | 150 | 150 |
| IW-10 | 508237 | 250 | 250 | 250 | 250 | 250 | 100 | 100 | 100 | 100 |
| IW-11 | 508235 | 325 | 325 | 325 | 250 | 250 | 250 | 150 | 150 | 150 |
| IW-12 | 545555 | 125 | 125 | 125 | 75 | 75 | 50 | 50 | 50 | 50 |
| IW-13 | 545556 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-14 | 545557 | 60 | 60 | 60 | 60 | 50 | 40 | 40 | 40 | 40 |
| IW-15 | 545558 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| IW-19 | 545562 | 150 | 150 | 150 | 100 | 100 | 50 | 50 | 50 | 50 |
| IW-20 | 545563 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-21 | 545564 | 100 | 100 | 100 | 75 | 50 | 50 | 50 | 50 | 50 |
| IW-22 | 200554 | 300 | 300 | 300 | 300 | 300 | 200 | 200 | 200 | 200 |
| IW-23 | 200555 | 120 | 120 | 120 | 120 | 120 | 50 | 50 | 50 | 50 |
| IW-24 | 200556 | 50 | 50 | 50 | 50 | 50 | 40 | 40 | 40 | 40 |
| **EXISTING IW WELL TOTAL** | | **3280** | **3280** | **3280** | **3080** | **2768** | **2020** | **1820** | **1820** | **1820** |
| | | | | | | | | | | |
| IW-25 | 219596 | 400 | 400 | 350 | 350 | 350 | 300 | 300 | 300 | 300 |
| IW-26 | 219143 | 350 | 350 | 350 | 350 | 350 | 300 | 300 | 300 | 300 |
| IW-27 | 219136 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| IW-28 | 219137 | 400 | 400 | 400 | 400 | 400 | 350 | 350 | 350 | 350 |
| **NEW IW WELL TOTAL** | | **1250** | **1250** | **1200** | **1200** | **1200** | **1050** | **1050** | **1050** | **1050** |
| | | | | | | | | | | |
| FFS-1 | 221662 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| FFS-2 | 221663 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |
| FFS-3 | 221664 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| FFS-4 | 221665 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| FFS-5 | 221666 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| FFS-6 | 221667 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| **FFS WELL TOTAL** | | **3700** | **3700** | **3700** | **3700** | **3700** | **3700** | **3700** | **3700** | **3700** |
| | | | | | | | | | | |
| PS-1 | 220861 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |
| PS-2 | 220862 | 800 | **800** | **800** | **800** | **800** | **800** | **800** | **800** | 800 |
| PS-3 | 220863 | 800 | **800** | **800** | **800** | **800** | **800** | **800** | **800** | 800 |
| PS-4 | 220864 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| **PS WELL TOTAL** | | **3300** | **3300** | **3300** | **3300** | **3300** | **3300** | **3300** | **3300** | **3300** |
| | | | | | | | | | | |
| MC-1 | 221660 | 900 | 900 | 900 | 900 | 900 | 900 | 900 | **900** | 900 |
| MC-2 | 221761 | 700 | 700 | 700 | 700 | 700 | **700** | **700** | **700** | 700 |
| MC-3 | 221661 | 600 | 600 | 600 | 900 | 900 | **900** | **900** | **900** | 900 |
| MC-4 | 220842 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | **600** | 600 |
| **MC WELL TOTAL** | | **2800** | **2800** | **2800** | **3100** | **3100** | **3100** | **3100** | **3100** | **3100** |
| | | | | | | | | | | |
| **TOTAL PUMPING** | | **14,330** | **14,330** | **14,280** | **14,380** | **14,068** | **13,170** | **12,970** | **12,970** | **12,970** |

Notes:
ADWR = Arizona Department of Water Resources
FFS = Focused Feasibility Study
IW = Interceptor Wells
PS = Plume Stabilization
MC = Mass Capture

CLEAR CREEK ASSOCIATES

# TABLE 2
## Performance Goal Pumping Rates

| Well Name | ADWR Registry Number | Gallons per Minute | | | | |
|---|---|---|---|---|---|---|
| | | 2014-2020 | 2021-2025 | 2026-2030 | 2031-2035 | 2036-2042 |
| IW-01 | 623129 | 250 | 250 | 250 | 250 | 188 |
| IW-02A | 216464 | 300 | 300 | 300 | 300 | 300 |
| IW-03A | 201732 | 500 | 500 | 500 | 500 | 400 |
| IW-04 | 623132 | 40 | 40 | 40 | 40 | 40 |
| IW-05A | 219131 | 40 | 40 | 40 | 40 | 40 |
| IW-06A | 545565 | 80 | 80 | 80 | 80 | 40 |
| IW-08 | 508236 | 350 | 350 | 350 | 350 | 325 |
| IW-09 | 508238 | 200 | 200 | 200 | 200 | 150 |
| IW-10 | 508237 | 250 | 250 | 250 | 250 | 250 |
| IW-11 | 508235 | 325 | 325 | 325 | 250 | 250 |
| IW-12 | 545555 | 125 | 125 | 125 | 75 | 75 |
| IW-13 | 545556 | 0 | 0 | 0 | 0 | 0 |
| IW-14 | 545557 | 60 | 60 | 60 | 60 | 50 |
| IW-15 | 545558 | 40 | 40 | 40 | 40 | 40 |
| IW-19 | 545562 | 150 | 150 | 150 | 100 | 100 |
| IW-20 | 545563 | 0 | 0 | 0 | 0 | 0 |
| IW-21 | 545564 | 100 | 100 | 100 | 75 | 50 |
| IW-22 | 200554 | 300 | 300 | 300 | 300 | 300 |
| IW-23 | 200555 | 120 | 120 | 120 | 120 | 120 |
| IW-24 | 200556 | 50 | 50 | 50 | 50 | 50 |
| **EXISTING IW WELL TOTAL** | | **3280** | **3280** | **3280** | **3080** | **2768** |
| | | | | | | |
| IW-25 | 219596 | 400 | 400 | 350 | 350 | 350 |
| IW-26 | 219143 | 350 | 350 | 350 | 350 | 350 |
| IW-27 | 219136 | 100 | 100 | 100 | 100 | 100 |
| IW-28 | 219137 | 400 | 400 | 400 | 400 | 400 |
| **NEW IW WELL TOTAL** | | **1250** | **1250** | **1200** | **1200** | **1200** |
| | | | | | | |
| FFS-1 | 221662 | 338 | 338 | 338 | 338 | 488 |
| FFS-2 | 221663 | 300 | 300 | 300 | 300 | 450 |
| FFS-3 | 221664 | 225 | 225 | 225 | 225 | 225 |
| FFS-4 | 221665 | 150 | 150 | 150 | 150 | 113 |
| FFS-5 | 221666 | 225 | 225 | 225 | 225 | 225 |
| FFS-6 | 221667 | 225 | 225 | 225 | 225 | 225 |
| **FFS WELL TOTAL** | | **1463** | **1463** | **1463** | **1463** | **1726** |
| | | | | | | |
| PS-1 | 220861 | 700 | 700 | 700 | 700 | 700 |
| PS-2 | 220862 | 800 | 800 | 800 | 800 | 800 |
| PS-3 | 220863 | 800 | 800 | 800 | 800 | 800 |
| PS-4 | 220864 | 1000 | 1000 | 1000 | 1000 | 1000 |
| **PS WELL TOTAL** | | **3300** | **3300** | **3300** | **3300** | **3300** |
| | | | | | | |
| MC-1 | 221660 | 0 | 0 | 0 | 0 | 0 |
| MC-2 | 221761 | 0 | 0 | 0 | 0 | 0 |
| MC-3 | 221661 | 750 | 750 | 750 | 750 | 750 |
| MC-4 | 220842 | 600 | 600 | 600 | 600 | 600 |
| **MC WELL TOTAL** | | **1350** | **1350** | **1350** | **1350** | **1350** |
| | | | | | | |
| **TOTAL PUMPING** | | **10,643** | **10,643** | **10,593** | **10,393** | **10,344** |

Notes:
ADWR = Arizona Department of Water Resources
FFS = Focused Feasibility Study
IW = Interceptor Wells
PS = Plume Stabilization
MC = Mass Capture
Note: The performance goal rate for PS-1 is corrected to 700 gpm from the 750 gpm reported in the Mitigation Plan.

**TABLE 3**
**2015 Groundwater Pumping Compared to**
**Target and Performance Goal Pumping Rates**

| WELL NAME | ADWR REGISTRY NUMBER | MITIGATION PLAN TARGET PUMPING RATE (gpm) | MITIGATION PLAN PERFORMANCE GOAL RATE (gpm) | 2015 TOTAL GALLONS PUMPED | 2015 AVERAGE PUMPING RATE (gpm) | 2015 AVERAGE RATE MINUS TARGET RATE (gpm) | 2015 AVERAGE RATE MINUS PERFORMANCE GOAL RATE (gpm) |
|---|---|---|---|---|---|---|---|
| IW-01 | 623129 | 250 | 250 | 69,065,520 | 131 | -119 | -119 |
| IW-02A | 216464 | 300 | 300 | 96,888,060 | 184 | -116 | -116 |
| IW-03A | 201732 | 500 | 500 | 209,756,000 | 399 | -101 | -101 |
| IW-04 | 623132 | 40 | 40 | 29,017,000 | 55 | 15 | 15 |
| IW-05A | 219131 | 40 | 40 | 0 | 0 | -40 | -40 |
| IW-06A | 545565 | 80 | 80 | 4,504,000 | 9 | -71 | -71 |
| IW-08 | 508236 | 350 | 350 | 139,692,000 | 266 | -84 | -84 |
| IW-09 | 508238 | 200 | 200 | 0 | 0 | -200 | -200 |
| IW-10 | 508237 | 250 | 250 | 101,850,000 | 194 | -56 | -56 |
| IW-11 | 508235 | 325 | 325 | 74,732,000 | 142 | -183 | -183 |
| IW-12 | 545555 | 125 | 125 | 45,102,000 | 86 | -39 | -39 |
| IW-13 | 545556 | 0 | 0 | 11,840 | 0 | 0 | 0 |
| IW-14 | 545557 | 60 | 60 | 16,959,000 | 32 | -28 | -28 |
| IW-15 | 545558 | 40 | 40 | 10,280,700 | 20 | -20 | -20 |
| IW-19 | 545562 | 150 | 150 | 49,266,000 | 94 | -56 | -56 |
| IW-20 | 545563 | 0 | 0 | 1,877,400 | 4 | 4 | 4 |
| IW-21 | 545564 | 100 | 100 | 59,794,000 | 114 | 14 | 14 |
| IW-22 | 200554 | 300 | 300 | 89,999,000 | 171 | -129 | -129 |
| IW-23 | 200555 | 120 | 120 | 41,661,000 | 79 | -41 | -41 |
| IW-24 | 200556 | 50 | 50 | 38,525,000 | 73 | 23 | 23 |
| IW-25 | 219596 | 400 | 400 | 210,284,000 | 400 | 0 | 0 |
| IW-26 | 219143 | 350 | 350 | 104,255,000 | 198 | -152 | -152 |
| IW-27 | 219136 | 100 | 100 | 112,710,600 | 214 | 114 | 114 |
| IW-28 | 219137 | 400 | 400 | 125,986,000 | 240 | -160 | -160 |
| IW-29[1] | 222865 | 0 | 0 | 241,580,120 | 460 | 460 | 460 |
| **IW WELL TOTAL** | | **4,530** | **4,530** | **1,873,796,240** | **3,565** | **-965** | **-965** |
| | | | | **Percent of Target Pumping Rate** | **79%** | | |
| | | | | **Percent of Performance Goal Rate** | **79%** | | |
| | | | | | | | |
| FFS-1 | 221662 | 800 | 338 | 310,205,380 | 590 | -210 | 252 |
| FFS-2 | 221663 | 700 | 300 | 443,345,640 | 844 | 144 | 544 |
| FFS-3 | 221664 | 400 | 225 | 138,957,960 | 264 | -136 | 39 |
| FFS-4 | 221665 | 200 | 150 | 79,126,800 | 151 | -49 | 1 |
| FFS-5 | 221666 | 1,000 | 225 | 486,681,000 | 926 | -74 | 701 |
| FFS-6 | 221667 | 600 | 225 | 289,090,680 | 550 | -50 | 325 |
| **FFS WELL TOTAL** | | **3,700** | **1,463** | **1,747,407,460** | **3,325** | **-375** | **1,862** |
| | | | | **Percent of Target Pumping Rate** | **90%** | | |
| | | | | **Percent of Performance Goal Rate** | **227%** | | |
| | | | | | | | |
| PS-1 | 220861 | 700 | 700 | 305,288,480 | 581 | -119 | -119 |
| PS-2 | 220862 | 800 | 800 | 308,215,000 | 586 | -214 | -214 |
| PS-3 | 220863 | 800 | 800 | 305,776,720 | 582 | -218 | -218 |
| PS-4 | 220864 | 1,000 | 1,000 | 354,949,000 | 675 | -325 | -325 |
| **PS WELL TOTAL** | | **3,300** | **3,300** | **1,274,229,200** | **2,424** | **-876** | **-876** |
| | | | | **Percent of Target Pumping Rate** | **73%** | | |
| | | | | **Percent of Performance Goal Rate** | **73%** | | |
| | | | | | | | |
| MC-1 | 221660 | 900 | 0 | 414,453,080 | 789 | -111 | 789 |
| MC-2 | 221761 | 700 | 0 | 296,659,020 | 564 | -136 | 564 |
| MC-3 | 221661 | 600 | 750 | 262,585,740 | 500 | -100 | -250 |
| MC-4 | 220842 | 600 | 600 | 269,817,180 | 513 | -87 | -87 |
| **MC WELL TOTAL** | | **2,800** | **1,350** | **1,243,515,020** | **2,366** | **-434** | **1,016** |
| | | | | **Percent of Target Pumping Rate** | **84%** | | |
| | | | | **Percent of Performance Goal Rate** | **175%** | | |
| | | | | | | | |
| **TOTAL PUMPING** | | **14,330** | **10,643** | **6,138,947,920** | **11,680** | **-2,650** | **1,037** |
| | | | | **Percent of Target Pumping Rate** | **82%** | | |
| | | | | **Percent of Performance Goal Rate** | **110%** | | |

ADWR = Arizona Department of Water Resources
IW = Interceptor Wells, FFS = Focused Feasibility Study , PS = Plume Stabilization, MC = Mass Capture
gpm = gallons per minute
Target pumping rates and performance goal rates from Tables 1 and 2, respectively, of the Mitigation Plan. The performance goal for PS-1 is corrected to 700 gpm from the 750 gpm reported in the Mitigation Plan.
[1] No target or performance goal pumping rates were set for IW-29 because its installation post-dates the Mitigation Plan.

CLEAR CREEK ASSOCIATES

# TABLE 4
# Post-Implementation Groundwater Monitoring Plan

| Well Name | ADWR 55 Well Registry No. | Well Use | Owner | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | Monthly/Quarterly Water Level Monitoring |
|---|---|---|---|---|---|---|---|---|
| CC of GV | 501760 | Monitor | Sierrita | | SO4+WL | | WLO | |
| CW-3 | 627483 | Monitor | CWC | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| CW-6 | 627485 | DWS | CWC | SO4+WL | SO4+WL | SO4+WL | SO4+WL | |
| CW-7 | 502546 | Monitor | CWC | | WLO | | WLO | |
| CW-8 | 543600 | Monitor | CWC | | WLO | | WLO | |
| CW-9 | 588121 | DWS | CWC | SO4+WL | SO4+WL | SO4+WL | SO4+WL | |
| CW-10 | 207982 | DWS | CWC | SO4+WL | SO4+WL | SO4+WL | SO4+WL | |
| CW-11 | 608518 | DWS | CWC | | WLO | | WLO | |
| ESP-1 | 623102 | Monitor | Sierrita | | SO4+WL | | SO4+WL | |
| ESP-2 | 623103 | Monitor | Sierrita | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| ESP-3 | 623104 | Monitor | Sierrita | | SO4+WL | | SO4+WL | |
| ESP-4 | 623105 | Monitor | Sierrita | | SO4+WL | | SO4+WL | |
| ESP-5 | 623106 | Monitor | Sierrita | | WLO | | WLO | |
| FFS-1 | 221662 | Extraction | Sierrita | | SO4+WL | | WLO | |
| FFS-2 | 221663 | Extraction | Sierrita | | SO4+WL | | WLO | |
| FFS-3 | 221664 | Extraction | Sierrita | | SO4+WL | | WLO | |
| FFS-4 | 221665 | Extraction | Sierrita | | SO4+WL | | WLO | |
| FFS-5 | 221666 | Extraction | Sierrita | | SO4+WL | | WLO | |
| FFS-6 | 221667 | Extraction | Sierrita | | SO4+WL | | WLO | |
| FICO C-4 | 624010 | Ag Extraction | FICO | | WLO | | WLO | |
| FICO E-6 | 624013 | Ag Extraction | FICO | | WLO | | WLO | |
| GV-01-GVDWID | 603428 | DWS | GVDWID | SO4+WL | SO4+WL | SO4+WL | SO4+WL | |
| GV-01-PCWW | 509603 | Monitor | Pima County | | WLO | | WLO | |
| GV-02-GVDWID | 603429 | DWS | GVDWID | SO4+WL | SO4+WL | SO4+WL | SO4+WL | |
| GV-02-PCWW | 509604 | Monitor | Pima County | | WLO | | WLO | |
| GV-SI-GVDWID | 208825 | DWS | GVDWID | | SO4+WL | | WLO | |
| HAVEN GOLF | 515867 | Monitor | Haven Golf | | SO4+WL | | WLO | |
| I-10 | 608525 | Monitor | Sierrita | | SO4+WL | | WLO | |
| IW-1 | 623129 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-2A | 216464 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-3A | 201732 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-4 | 623132 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-5A | 219131 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-6A | 545565 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-8 | 508236 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-9 | 508238 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-10 | 508237 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-11 | 508235 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-12 | 545555 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-13 | 545556 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-14 | 545557 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-15 | 545558 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-16 | 545559 | Monitor | Sierrita | | WLO | | WLO | |
| IW-17 | 545560 | Monitor | Sierrita | | WLO | | WLO | |
| IW-18 | 545561 | Monitor | Sierrita | | WLO | | WLO | |
| IW-19 | 545562 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-20 | 545563 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-21 | 545564 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-22 | 200554 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-23 | 200555 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-24 | 200556 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-25 | 219596 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-26 | 219143 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-27 | 219136 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-28 | 219137 | Extraction | Sierrita | | SO4+WL | | WLO | |
| IW-29 | 222865 | Extraction | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |

# TABLE 4
# Post-Implementation Groundwater Monitoring Plan

| Well Name | ADWR 55 Well Registry No. | Well Use | Owner | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | Monthly/Quarterly Water Level Monitoring |
|---|---|---|---|---|---|---|---|---|
| M-5 | 87387 | Monitor | Sierrita | | WLO | | WLO | |
| M-8 | 87390 | Monitor | Sierrita | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| M-9 | 501652 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| M-10 | 501653 | Monitor | Sierrita | | SO4+WL | | SO4+WL | |
| M-11 | 501654 | Monitor | Sierrita | | WLO | | WLO | |
| M-13 | 508428 | Monitor | Sierrita | | WLO | | WLO | |
| M-20 | 906595 | Monitor | Sierrita | | SO4+WL | | WLO | |
| MC-1 | 221660 | Extraction | Sierrita | | SO4+WL | | WLO | |
| MC-2 | 221761 | Extraction | Sierrita | | SO4+WL | | WLO | |
| MC-3 | 221661 | Extraction | Sierrita | | SO4+WL | | WLO | |
| MC-4 | 220842 | Extraction | Sierrita | | SO4+WL | | WLO | |
| MH-1 | 803629 | Monitor | Sierrita | | WLO | | WLO | |
| MH-3 | 803630 | Monitor | Sierrita | | WLO | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-5 | 803632 | Monitor | Sierrita | | WLO | | WLO | |
| MH-6 | 803633 | Monitor | Sierrita | | WLO | | WLO | |
| MH-7 | 803634 | Monitor | Sierrita | | WLO | | WLO | |
| MH-9 | 803635 | Monitor | Sierrita | | WLO | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-10 | 803636 | Monitor | Sierrita | | SO4+WL | | WLO | |
| MH-11 | 803637 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-12 | 803638 | Monitor | Sierrita | | | | | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-13A | 904071 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-13B | 904072 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-13C | 904073 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-14 | 528098 | Monitor | Sierrita | | WLO | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-15E | 528094 | Monitor | Sierrita | | WLO | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-15W | 528093 | Monitor | Sierrita | | WLO | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-16E | 528100 | Monitor | Sierrita | | WLO | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-16W | 528099 | Monitor | Sierrita | | WLO | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-24 | 563799 | Monitor | Sierrita | | WLO | | WLO | |
| MH-25A | 201528 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-25B | 208429 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-25C | 208426 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-26A | 201527 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-26B | 208427 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-26C | 208428 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-28 | 903648 | Monitor | Sierrita | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-29 | 903649 | Monitor | Sierrita | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MH-30 | 903884 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-1A | 907342 | Monitor | Sierrita | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-1B | 907210 | Monitor | Sierrita | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-1C | 907209 | Monitor | Sierrita | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-2 | 906765 | Monitor | Sierrita | | SO4+WL | | WLO | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-3B[1] | 906816 | Sentinel | Sierrita | SO4+WL | SO4+WL | SO4+WL | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-3C[1] | 906817 | Sentinel | Sierrita | SO4+WL | SO4+WL | SO4+WL | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-4A[2] | 907213 | Sentinel | Sierrita | SO4+WL | SO4+WL | SO4+WL | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-4B[2] | 907212 | Sentinel | Sierrita | SO4+WL | SO4+WL | SO4+WL | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-4C[2] | 907211 | Sentinel | Sierrita | SO4+WL | SO4+WL | SO4+WL | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-5B | 907456 | Monitor | Sierrita | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-5C | 907457 | Monitor | Sierrita | | SO4+WL | | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-6A[3] | 907607 | Sentinel | Sierrita | SO4+WL | SO4+WL | SO4+WL | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2007-6B[3] | 907606 | Sentinel | Sierrita | SO4+WL | SO4+WL | SO4+WL | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| MO-2009-1[4] | 910458 | Sentinel | Sierrita | SO4+WL | SO4+WL | SO4+WL | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| NP-2[1] | 605898 | Sentinel | CWC | SO4+WL | SO4+WL | SO4+WL | SO4+WL | Monthly to June 2015, then quarterly to Q1 2016 |
| PS-1 | 220861 | Extraction | Sierrita | | SO4+WL | | WLO | |
| PS-2 | 220862 | Extraction | Sierrita | | SO4+WL | | WLO | |
| PS-3 | 220863 | Extraction | Sierrita | | SO4+WL | | WLO | |
| PS-4 | 220864 | Extraction | Sierrita | | SO4+WL | | WLO | |

# TABLE 4
# Post-Implementation Groundwater Monitoring Plan

| Well Name | ADWR 55 Well Registry No. | Well Use | Owner | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | Monthly/Quarterly Water Level Monitoring |
|---|---|---|---|---|---|---|---|---|
| PZ-7 | 561870 | Monitor | Sierrita | | SO4+WL | | WLO | |
| PZ-8 | 561866 | Monitor | Sierrita | | SO4+WL | | WLO | |
| S-1 | 623111 | Extraction | Sierrita | | WLO | | WLO | |
| ST-6 | 608530 | DWS | LQSWC | | WLO | | WLO | |
| TMM-1 | 616156 | Monitor | Pima County | | SO4+WL | | SO4+WL | |
| 1225 | 634394 | Monitor | Sierrita | | WLO | | WLO | |
| 1350 | ND | Monitor | Sierrita | | WLO | | WLO | |
| 1759 | 634393 | Monitor | Sierrita | | WLO | | WLO | |
| 2125 | 514015 | Monitor | Sierrita | | WLO | | WLO | |

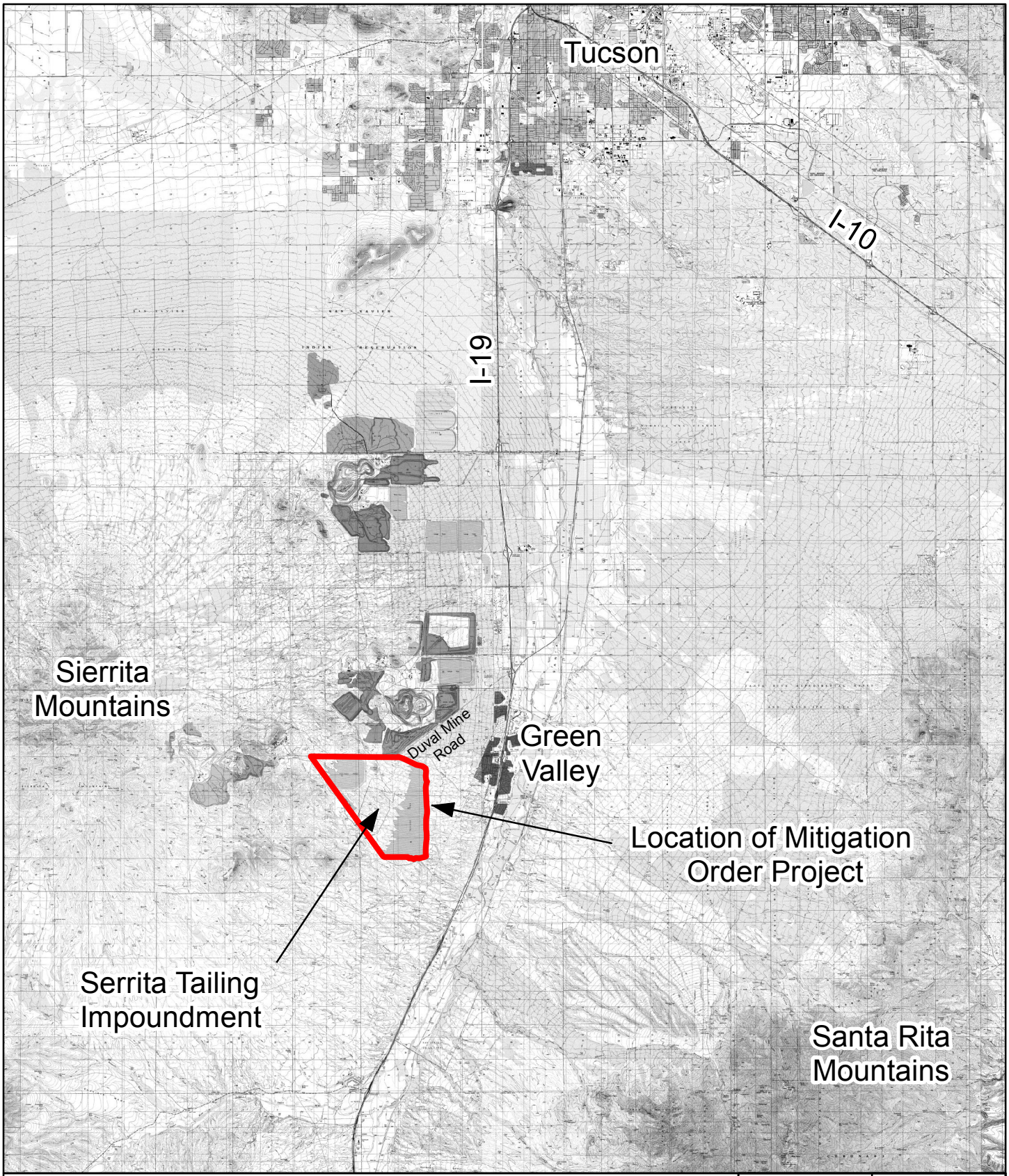
*Notes:*
*ADWR = Arizona Department of Water Resources*
*Ag = agricultural*
*CC OF GV = Country Club of Green Valley*
*CWC = Community Water Company of Green Valley*
*DWS = Drinking Water Supply*
*FICO - Farmers Investment Company*
*GVDWID = Green Valley Domestic Water Improvement District*
*GVPCWW = Green Valley Pima County Wastewater Reclamation Facility*
*LQSWC = Las Quintas Serenas Water Company*
*ND = No Data*
*Sierrita = Freeport-McMoRan Sierrita Inc.*
*SO4 = Water Sample for Sulfate Analysis, WL = Water Level Measurement, WLO = Water Level Measurement Only*
[1] *Sentinel Well for CW-9*
[2] *Sentinel Well for CW-6*
[3] *Sentinel Well for GV-01-GVDWID and GV-02-GVDWID*
[4] *Sentinel Well for CW-10*

# TABLE 5
## Pumping Rates for Contingency Plan Simulation

| WELL NAME | ADWR REGISTRY NUMBER | 2014 AVERAGE PUMPING RATE (gpm) | CURTAILMENT PUMPING 2016 through 2020 (gpm) | POST-2020 PUMPING (gpm) |
|---|---|---|---|---|
| IW-01 | 623129 | 202 | 0 | 202 |
| IW-02A | 216464 | 226 | 0 | 226 |
| IW-03A | 201732 | 436 | 0 | 436 |
| IW-04 | 623132 | 76 | 0 | 76 |
| IW-05A | 219131 | 18 | 0 | 18 |
| IW-06A | 545565 | 62 | 0 | 62 |
| IW-08 | 508236 | 225 | 0 | 225 |
| IW-09 | 508238 | 104 | 0 | 104 |
| IW-10 | 508237 | 236 | 0 | 236 |
| IW-11 | 508235 | 119 | 0 | 119 |
| IW-12 | 545555 | 79 | 0 | 79 |
| IW-13 | 545556 | 6 | 0 | 6 |
| IW-14 | 545557 | 45 | 0 | 45 |
| IW-15 | 545558 | 33 | 0 | 33 |
| IW-19 | 545562 | 163 | 0 | 163 |
| IW-20 | 545563 | 23 | 0 | 23 |
| IW-21 | 545564 | 47 | 0 | 47 |
| IW-22 | 200554 | 280 | 0 | 280 |
| IW-23 | 200555 | 137 | 0 | 137 |
| IW-24 | 200556 | 56 | 0 | 56 |
| IW-25 | 219596 | 423 | 0 | 423 |
| IW-26 | 219143 | 0 | 0 | 0 |
| IW-27 | 219136 | 59 | 0 | 59 |
| IW-28 | 219137 | 277 | 0 | 277 |
| IW-29 | 222865 | 145 | 145 | 145 |
| **IW WELL TOTAL** | | **3,477** | **145** | **3,477** |
| | | | | |
| FFS-1 | 221662 | 853 | 500 | 853 |
| FFS-2 | 221663 | 782 | 0 | 782 |
| FFS-3 | 221664 | 244 | 0 | 244 |
| FFS-4 | 221665 | 178 | 0 | 178 |
| FFS-5 | 221666 | 956 | 956 | 956 |
| FFS-6 | 221667 | 553 | 550 | 553 |
| **FFS WELL TOTAL** | | **3,566** | **2,006** | **3,565** |
| | | | | |
| PS-1 | 220861 | 588 | 750 | 750 |
| PS-2 | 220862 | 592 | 750 | 750 |
| PS-3 | 220863 | 591 | 900 | 900 |
| PS-4 | 220864 | 709 | 1,100 | 1,100 |
| **PS WELL TOTAL** | | **2,480** | **3,500** | **3,500** |
| | | | | |
| MC-1 | 221660 | 844 | 500 | 844 |
| MC-2 | 221761 | 619 | 500 | 619 |
| MC-3 | 221661 | 564 | 550 | 564 |
| MC-4 | 220842 | 557 | 550 | 557 |
| **MC WELL TOTAL** | | **2,584** | **2,100** | **2,584** |
| | | | | |
| **TOTAL PUMPING** | | **12,107** | **7,751** | **13,126** |

Notes:
ADWR = Arizona Department of Water Resources
IW = Interceptor Wells
FFS = Focused Feasibility Study
PS = Plume Stabilization
MC = Mass Capture
gpm = gallons per minute

**FIGURES**





0 2 4 8
Miles

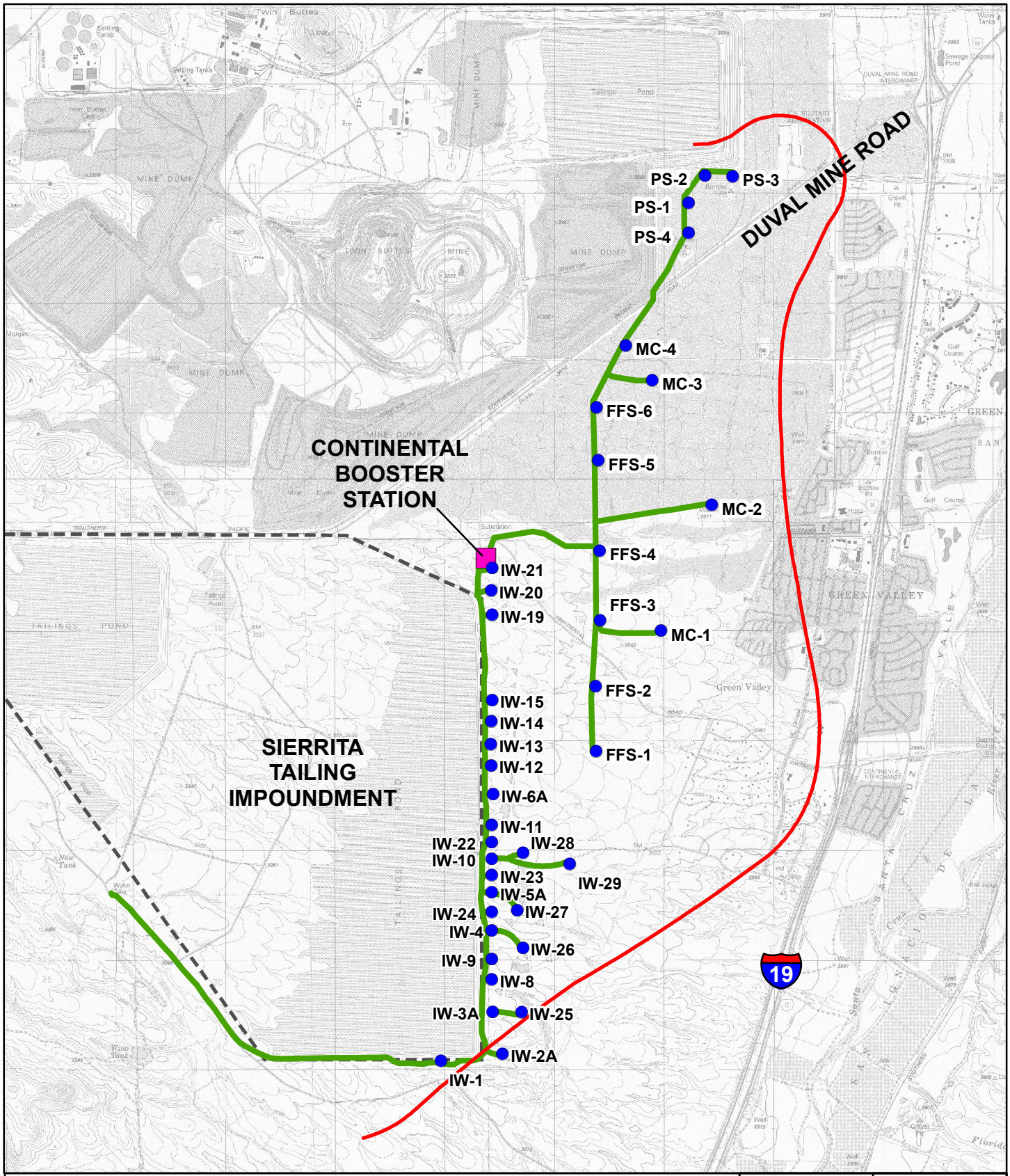
PROJECTION: UTM Zone 12N NAD83

CLEAR CREEK ASSOCIATES

File ID 055039-121

Date 3/12/15

FIGURE 1
Project Location Map




**Legend**

- Extraction Well
- Booster Station
- Pipeline
- Tailing Impoundment
- Q4 2015 250 mg/L Sulfate Concentration Contour

0 2,000 4,000
Feet

CLEAR CREEK ASSOCIATES

File ID 055039-165

Date 2/18/16

FIGURE 2
Mitigation Action
Extraction Wells
and Pumping Facilities

2020

2040

2060

2080

2100

**Legend**

- Agriculture
- Golf Course
- Mining
- Mitigation Extraction Wells
- Municipal Supply
- Other Users
- Post-Implementation Monitoring Well
- 250 mg/L Contour in 2020
- 250 mg/L Contour in 2040
- 250 mg/L Contour in 2060
- 250 mg/L Contour in 2080
- 250 mg/L Contour in 2100
- Tailing Impoundment
- Sierrita Property Boundary

Scale (Feet)

0 8,000 16,000

**Notes:**

Projection: UTM Zone
12N NAD83
mg/L = milligrams per liter
Simulation Run:3/30/15

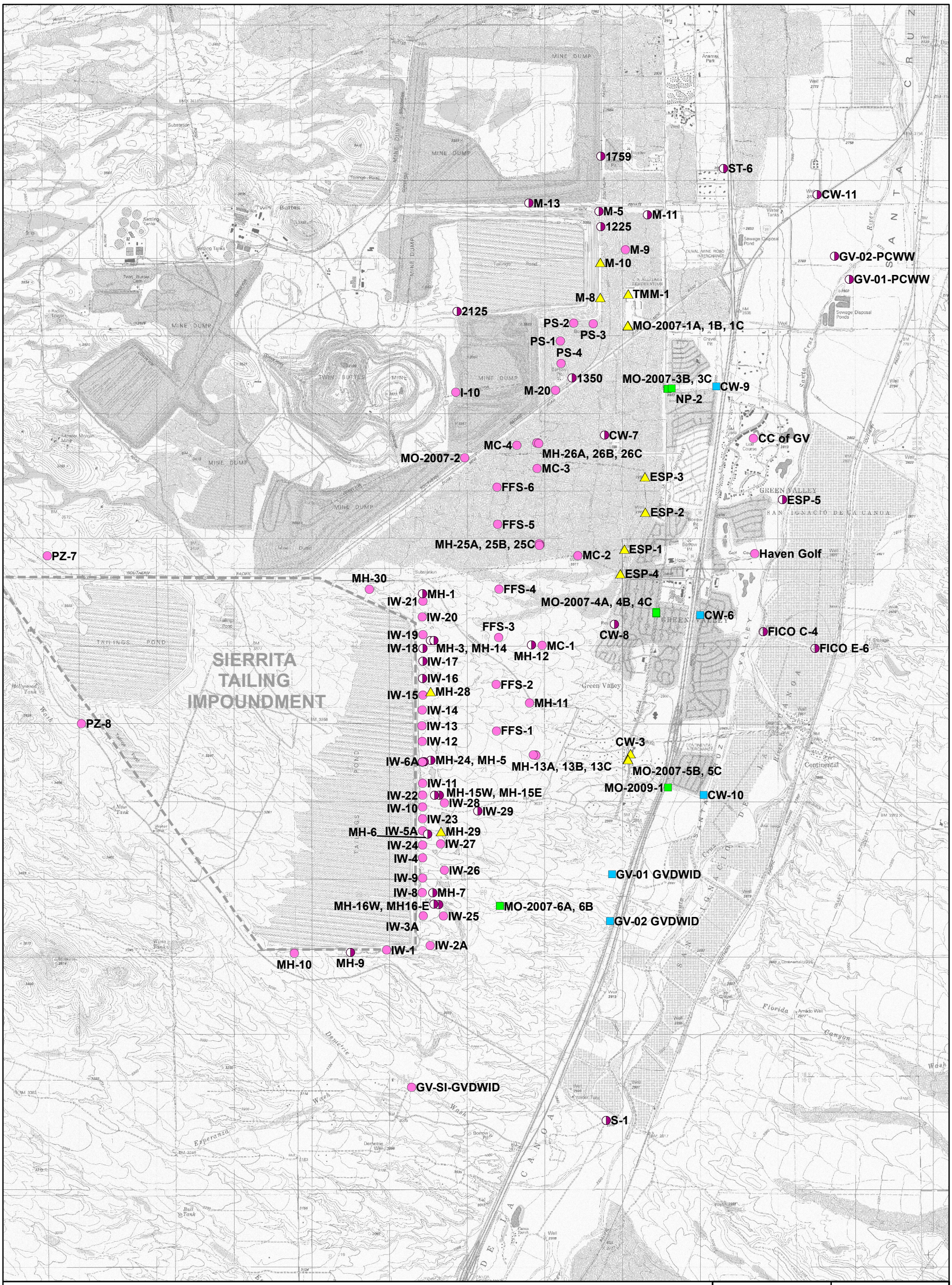
Date 2/18/16

File ID 055039-106

N

CLEAR CREEK ASSOCIATES

FIGURE 3
Simulated Sulfate Concentration
from 2020 to 2100
for Mitigation Plan
Target Pumping Rates




## Legend

- Annual Sampling (Second Quarter)
- Annual Water Level Only (Second Quarter)
- Semi-Annual Sampling (Second and Fourth Quarters)
- Quarterly Sampling - Sentinel Well
- Quarterly Sampling - Drinking Water Supply Well

Scale

0 2,000 4,000 8,000

Feet

| Date | File ID |
|---|---|
| 3/21/16 | 055039-006D |

CLEAR CREEK ASSOCIATES

# FIGURE 4
# Post-Implementation Groundwater Monitoring Locations

M-9 57.8
M-10 166
M-8 20.6
250
PS-3 1010
PS-2 1000
PS-1 1140
PS-4 1230/1240
M-20 1720
1500
MC-4 1230
MO-2007-2 255
MC-3 1390
FFS-6 1210
FFS-5 1390
MC-2 1200
FFS-4 1230
MH-30 1750
IW-20 1700
IW-19 1910
FFS-3 1490
MH-14 1650
MC-1 1710
MH-28 1820
FFS-2 1800/1800
IW-15 1860
MH-11 1550
IW-14 1930
IW-13 1860/1930
FFS-1 NS
IW-12 1600
IW-11 1790
IW-22 1770
IW-28 1730
IW-10 1870
IW-29 1750
IW-23 1890
MH-29 1700
IW-24 1760
IW-27 1670/1710
IW-26 1630
IW-8 1800
MH-16W 1830
IW-3A 1820
IW-25 NS
IW-1 1140
MH-10 1560
IW-2A 150
500
1000
1500
1500
1000
500
250
GV-SI-GVDWID 8.35

MO-2007-1A, 1B, 1C
460-600 18.5
740-900 987/1000
1020-1180 42.4

MH-26A, 26B, 26C
418-538UAS
620-730 1650
780-900 970

MH-25A, 25B, 25C
410-530 12.3
580-680 1580
731-901, 951-1081 UAS

PZ-7 434
PZ-8 454

SIERRITA
TAILING
IMPOUNDMENT

MO-2007-3B, 3C
740-940 < 0.5
1160-1320 40.1

CW-9 47.0
CC of GV 102
ESP-3 36.4
ESP-2 29.1
Haven Golf 112
ESP-4 423
CW-6 91.1

MO-2007-4A, 4B, 4C
360-560 39.7/39.1
669-939 35.1
1090-1130 77.3

MH-13A, 13B, 13C
300-650 1100
750-950 903
1050-1350 0.78

CW-3, MO-2007-5B, 5C
182-500 71.4/70.0
660-960 502
1050-1350 167

MO-2009-1 104
CW-10 56.7/57.5

GV-01 GVDWID 37.6
GV-02 GVDWID 58.7

MO-2007-6A, 6B
310-390, 430-610 19.6
780-940 64.3

DUVAL MINE RD

## Legend

250 mg/L Sulfate Concentration Contour

IW-10 Well ID
1870 Sulfate Concentration (mg/L)
Duplicate results separated by "/"

NS No Sample
UAS Unable to Sample

Co-Located Wells
Screened Interval (ft bls):Sulfate Concentration (mg/L)

**Well Symbols**
- Extraction Well
- Monitor Well
- Sentinel Well
- Drinking Water Supply Well

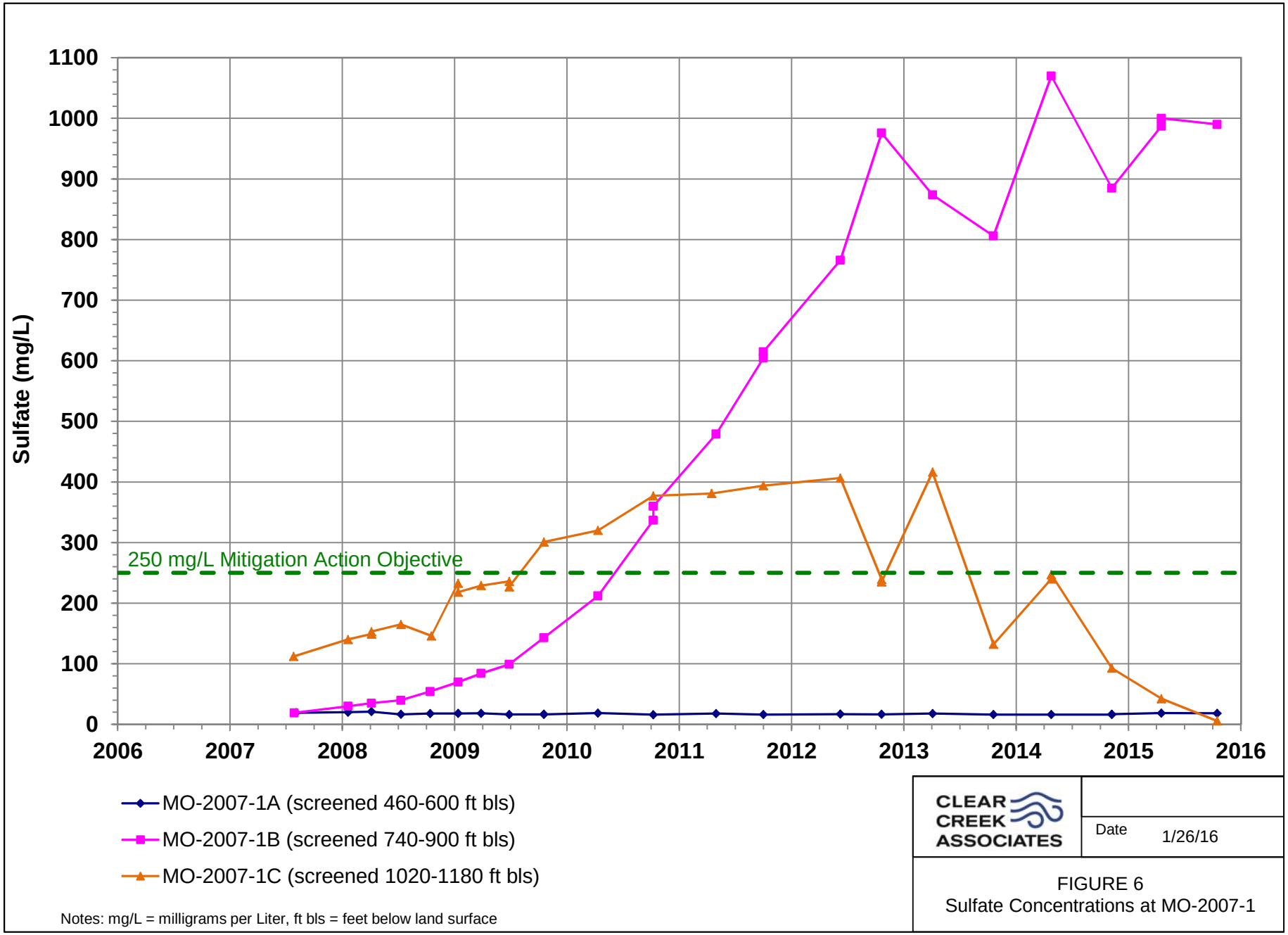
Scale
0 2,000 4,000 8,000
Feet

NOTE:
Projection:UTM NAD83 Zone 12N

| Date | File ID |
|---|---|
| 2/22/16 | 055039-166 |

CLEAR CREEK ASSOCIATES

FIGURE 5
Sulfate Concentrations in Groundwater, Second Quarter 2015

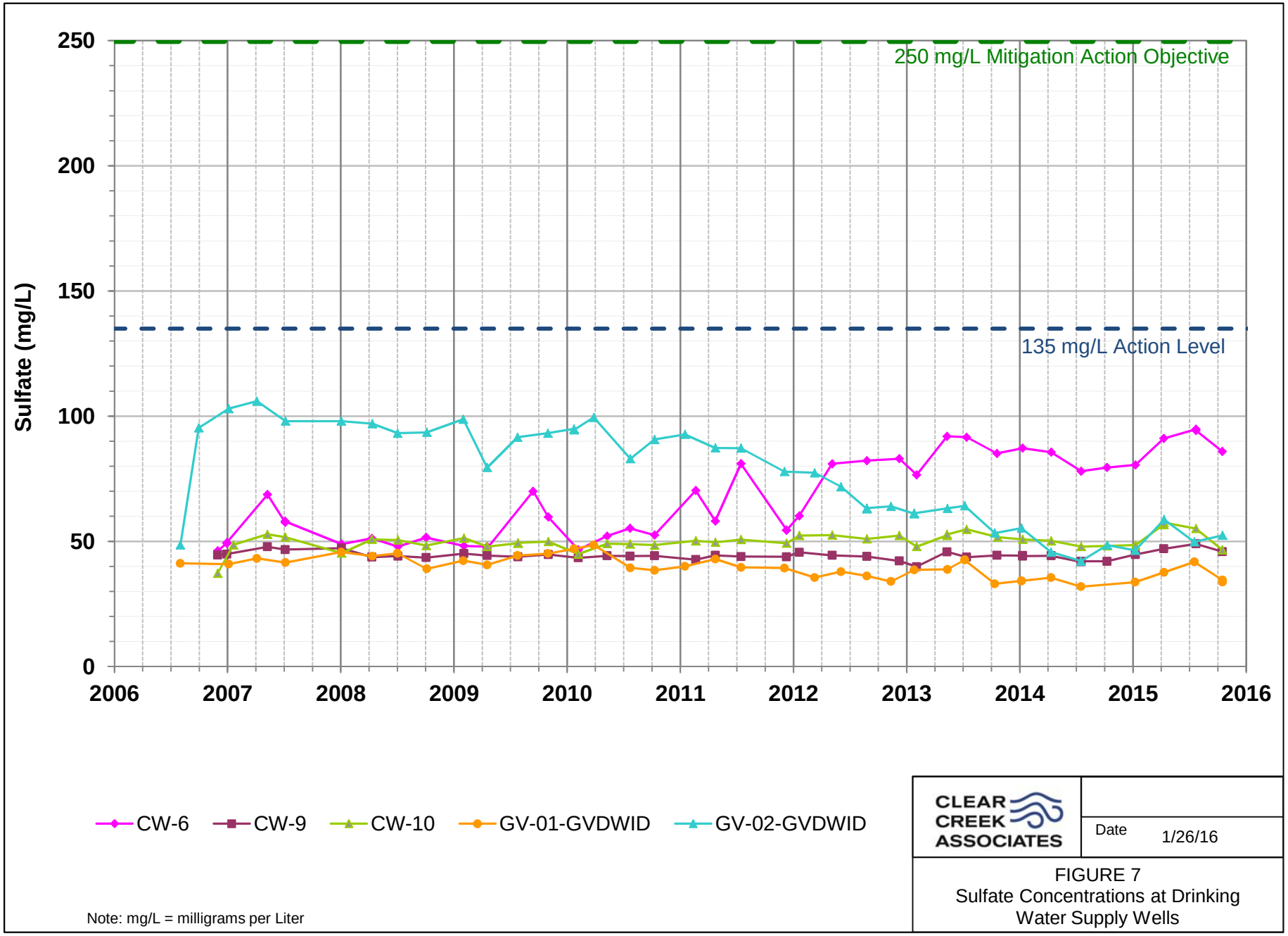



Notes: mg/L = milligrams per Liter, ft bls = feet below land surface

CLEAR CREEK ASSOCIATES

Date 1/26/16

FIGURE 6
Sulfate Concentrations at MO-2007-1

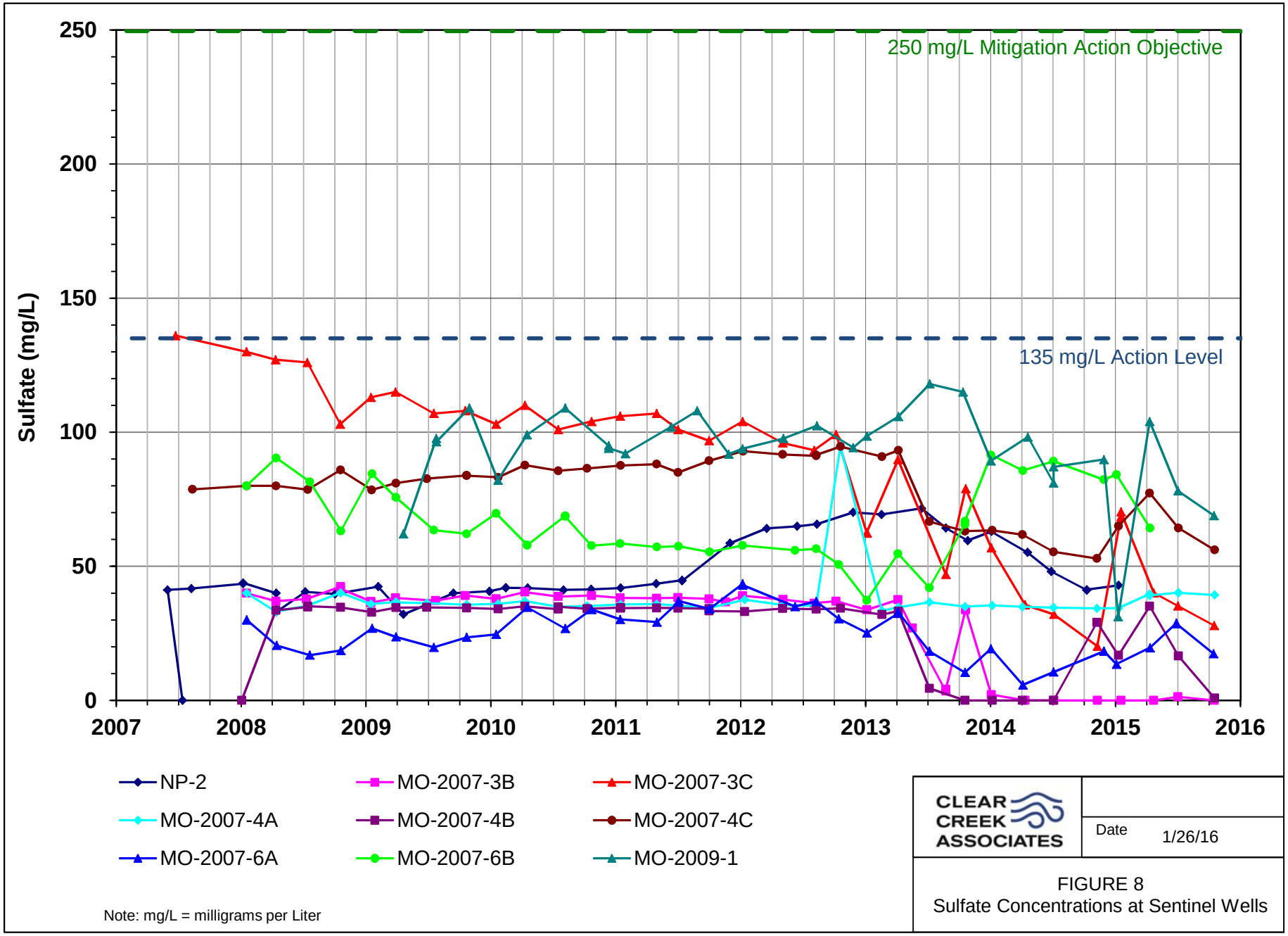



Note: mg/L = milligrams per Liter

CLEAR CREEK ASSOCIATES

Date 1/26/16

FIGURE 7
Sulfate Concentrations at Drinking Water Supply Wells

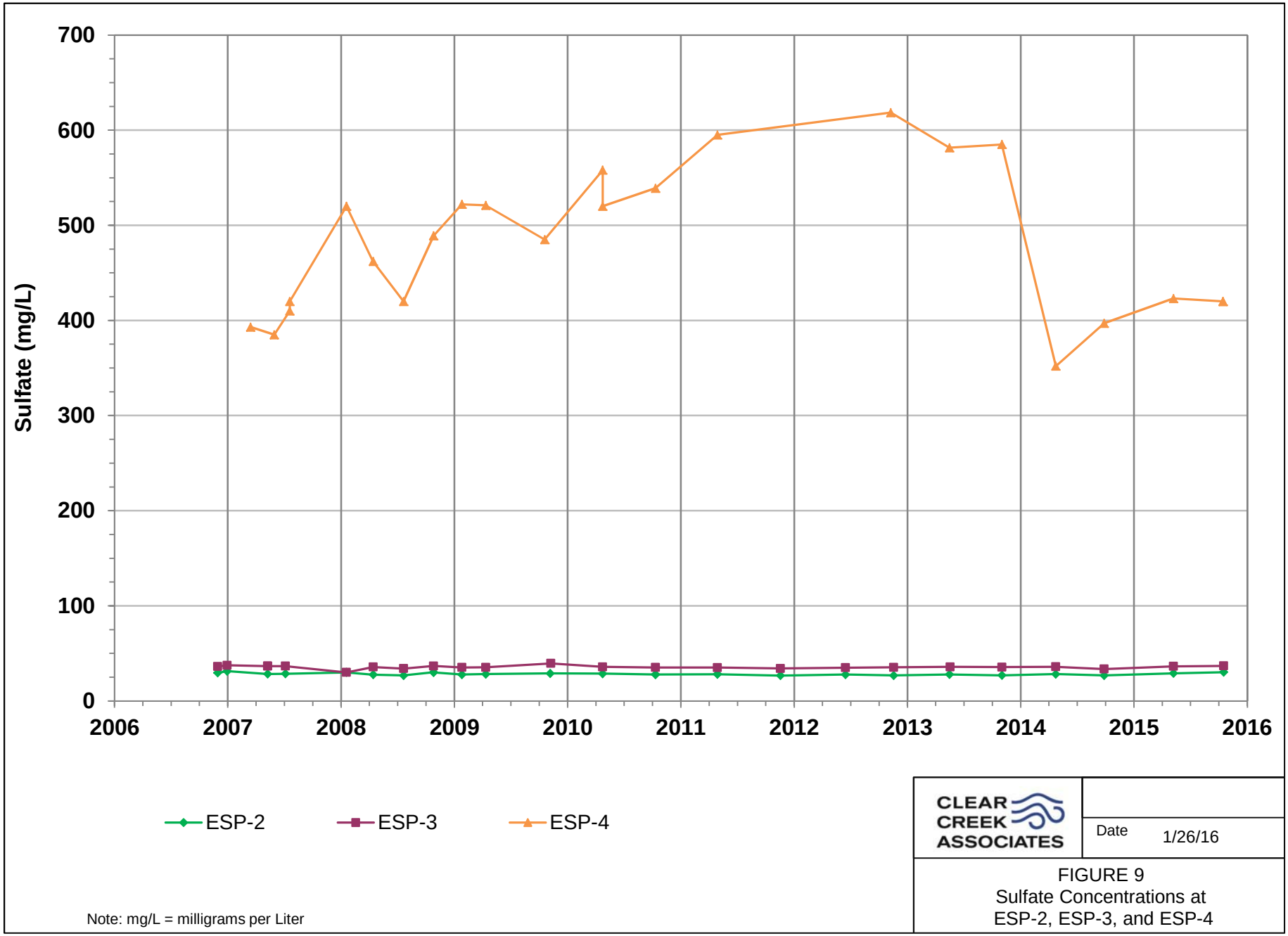



Note: mg/L = milligrams per Liter

CLEAR CREEK ASSOCIATES

Date 1/26/16

FIGURE 8
Sulfate Concentrations at Sentinel Wells

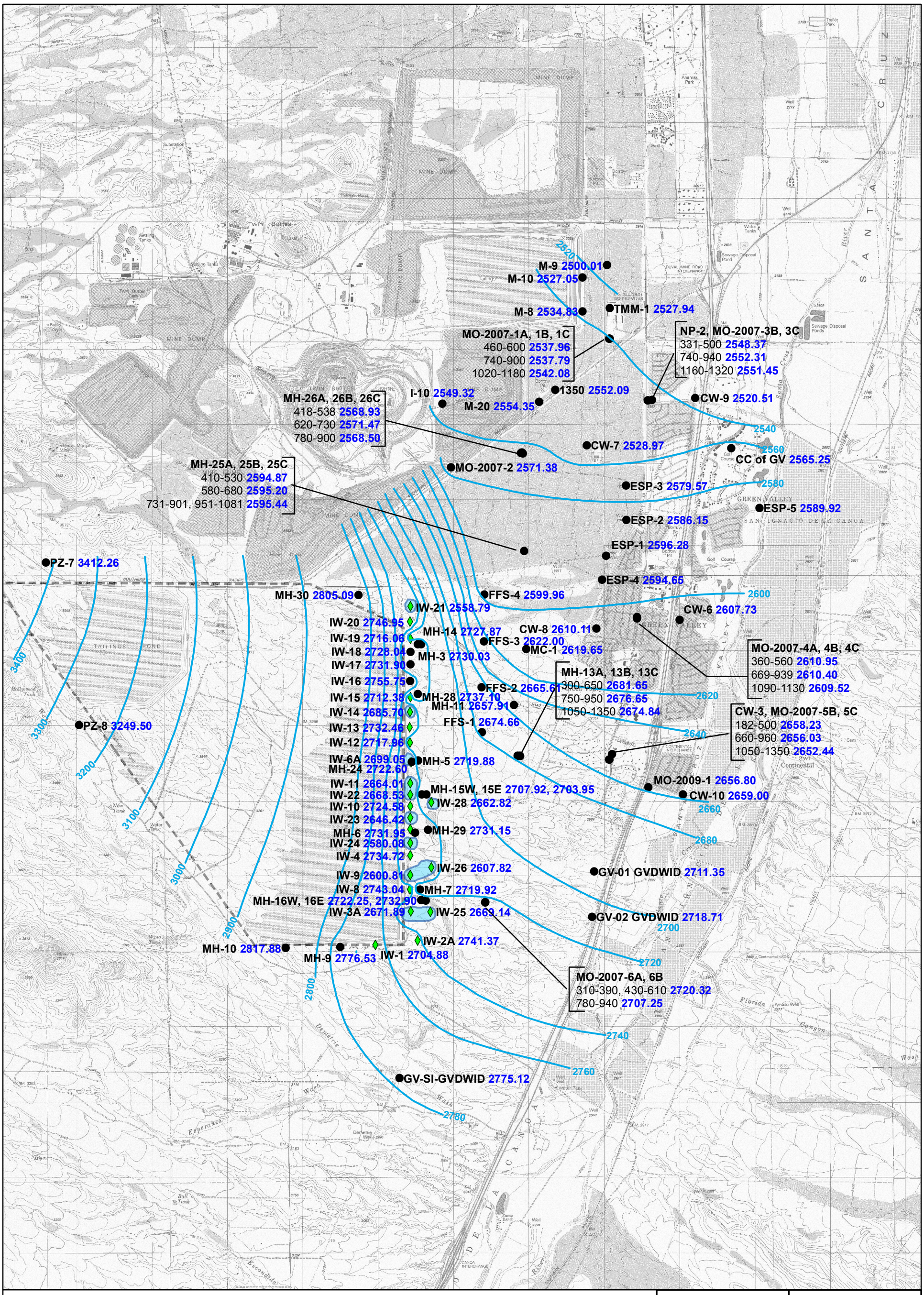



Note: mg/L = milligrams per Liter

CLEAR CREEK ASSOCIATES

Date 1/26/16

FIGURE 9
Sulfate Concentrations at
ESP-2, ESP-3, and ESP-4




**Legend**

- **CW-9** Well ID
- **2520.51** Groundwater Elevation (ft amsl)
- Groundwater Elevation Contour (ft amsl)
- Groundwater Depression

Co-Located Wells
Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

NOTE:
The groundwater elevation contour intervals are irregular.

0 2,000 4,000 8,000
Feet

**Well Symbols**

- Well with Static Water Level
- Well with Dynamic Water Level

| Date | File ID |
|---|---|
| 2/18/16 | 055039-136 |

CLEAR CREEK ASSOCIATES

FIGURE 10
Groundwater Elevations,
Second Quarter 2013

1759 2505.42
ST-6 2499.63
CW-11 2460.03
M-13 2507.29
M-5 2506.71
M-11 2505.71
1225 2507.52
MO-2007-1A, 1B, 1C
460-600 2517.44
740-900 2515.26
1020-1180 2517.40
M-9 2512.52
GV-02-PCWW 2610.40
M-10 2514.22
GV-01-PCWW 2603.50
M-8 2512.97
2125 2517.00
PS-3 2498.85
PS-2 2500.67
PS-1 2504.67
PS-4 2508.14
NP-2, MO-2007-3B, 3C
331-500 UTM
740-940 2526.29
1160-1320 2525.80
1350 2521.46
CW-9 2502.83
MH-26A, 26B, 26C
418-538 UTM
620-730 2534.71
780-900 2529.89
I-10 2523.01
M-20 2524.69
CW-7 2525.75
MC-4 2526.94
MO-2007-2 2533.54
MC-3 2530.98
ESP-3 2541.95
FFS-6 2522.69
ESP-5 2578.90
MH-25A, 25B, 25C
410-530 2553.38
580-680 2555.28
731-901, 951-1081 UTM
FFS-5 2524.73
ESP-2 2555.19
PZ-7 3412.68
MC-2 2555.08
ESP-4 2564.97
MH-30 2801.17
MH-1 2718.60
FFS-4 2556.50
IW-21 2737.67
IW-20 2733.41
CW-8 2573.26
CW-6 2583.00
FICO C-4 2573.49
IW-19 2723.99
MH-3 2710.47
FFS-3 2574.40
FICO E-6 2581.85
IW-18 UTM
MH-14 2705.53
MC-1 2578.37
MH-12 UTM
IW-17 2717.17
MO-2007-4A, 4B, 4C
360-560 2582.54
669-939 2575.30
1090-1130 2572.87
IW-16 2748.77
FFS-2 2590.61
SIERRITA
TAILING
IMPOUNDMENT
IW-15 2743.82
MH-28 2727.32
MH-11 2620.24
IW-14 2746.37
IW-13 2744.55
FFS-1 2639.85
PZ-8 3246.25
IW-12 2689.58
CW-3, MO-2007-5B, 5C
182-500 2637.60
660-960 2632.48
1050-1350 2628.08
IW-6A 2728.46
MH-5 2715.02
MH-24 2726.34
IW-11 2624.10
MH-15W 2715.71
MO-2009-1 2621.36
IW-22 2728.15
MH-15E 2710.06
IW-28 2676.21
CW-10 2637.55
IW-10 UTM
IW-23 2748.58
IW-29 2650.20
MH-13A, 13B, 13C
300-650 2655.21
750-950 2649.99
1050-1350 2645.59
IW-5A 2701.42
MH-29 2720.63
MH-6 2730.77
IW-27 2649.23
IW-24 2753.49
IW-4 2714.96
IW-26 2660.73
IW-9 2737.29
MH-7 2718.60
IW-8 2677.59
MH-16E 2718.08
MH-16W 2718.81
IW-3A 2680.45
IW-25 2652.96
GV-02 GVDWID 2707.37
IW-2A 2702.28
MH-10 2813.75
MH-9 2774.06
IW-1 2702.19
MO-2007-6A, 6B
310-390 2709.99
780-940 2695.30
GV-SI-GVDWID 2768.27
S-1 2752

## Legend

- CW-6 2583.00 — Well ID, Groundwater Elevation (ft amsl)
- 200 ft Groundwater Elevation Contour (ft amsl)
- 20 ft Groundwater Elevation Contour (ft amsl)
- 10 ft Groundwater Elevation Contour (ft amsl)
- Groundwater Depression

Co-Located Wells

Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

UTM = Unable to Measure

0 2,000 4,000 8,000
Feet

**Well labels**

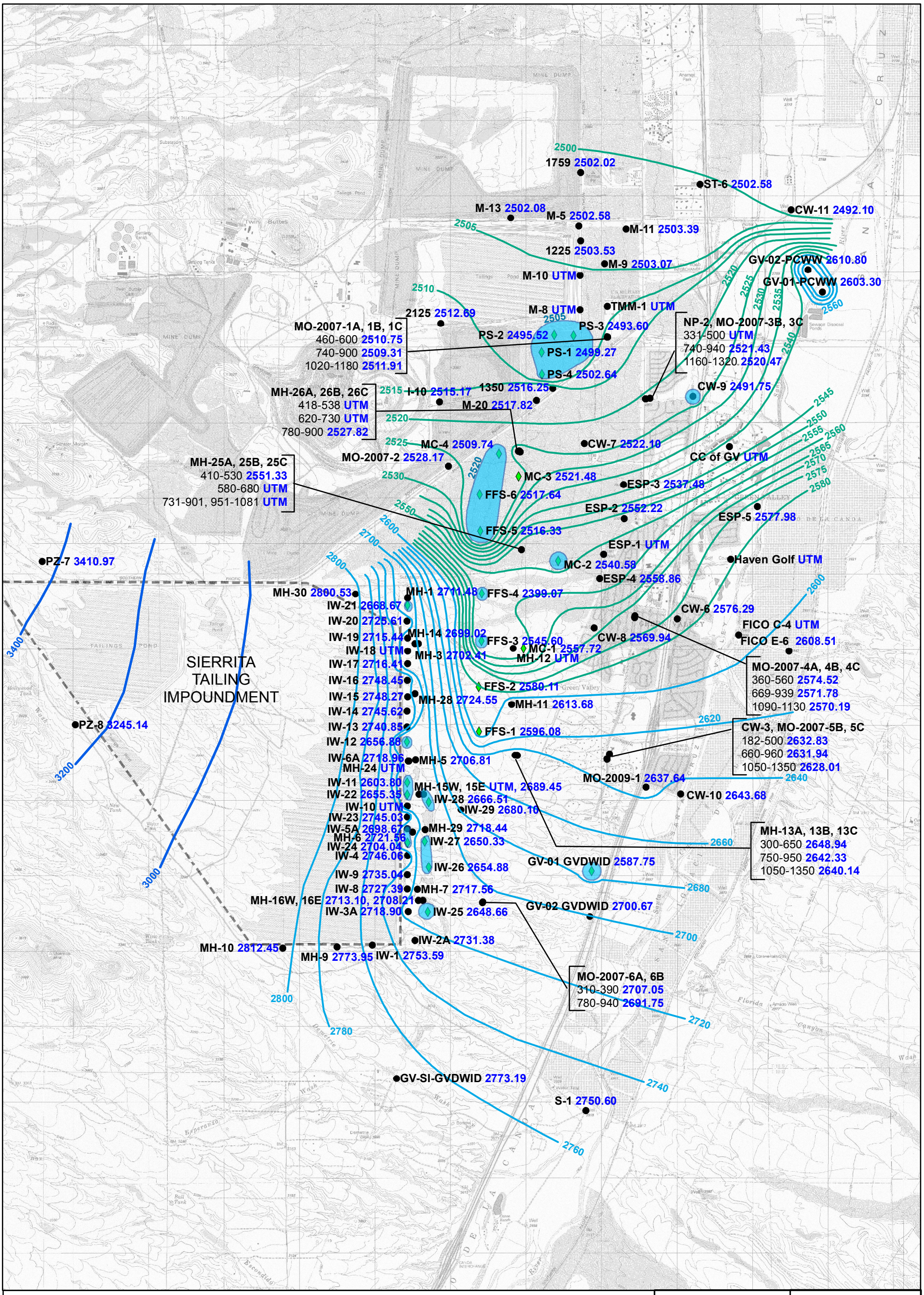
- Wells with Static Water Levels
- Wells with Dynamic Water Levels

CLEAR CREEK ASSOCIATES

File ID 055039-148

Date 2/18/16

FIGURE 11
Groundwater Elevations,
Second Quarter 2015




**Legend**

**CW-3** Well ID

**2632.83** Groundwater Elevation (ft amsl)

5 ft Groundwater Elevation (ft amsl)

20 Groundwater Contour (ft amsl)

200 ft Groundwater Contour (ft amsl)

Groundwater Depression

Co-Located Wells

Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

UTM = Unable to Measure

0 2,000 4,000 8,000

Feet

**Well labels**

Wells with Static Water Levels

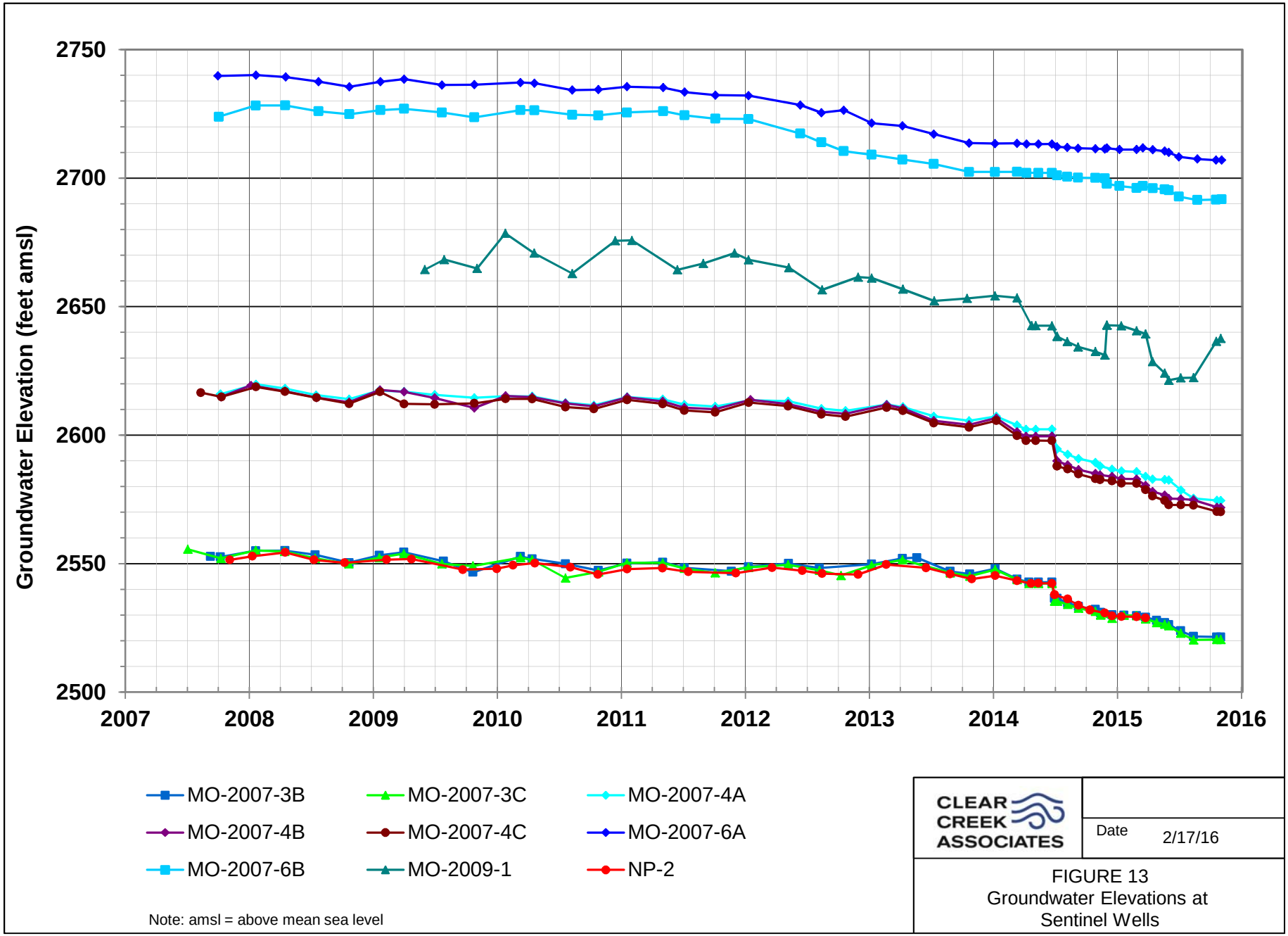
Wells with Dynamic Water Levels

CLEAR CREEK ASSOCIATES

File ID 055039-164C

Date 2/19/16

FIGURE 12
Groundwater Elevations,
Fourth Quarter 2015

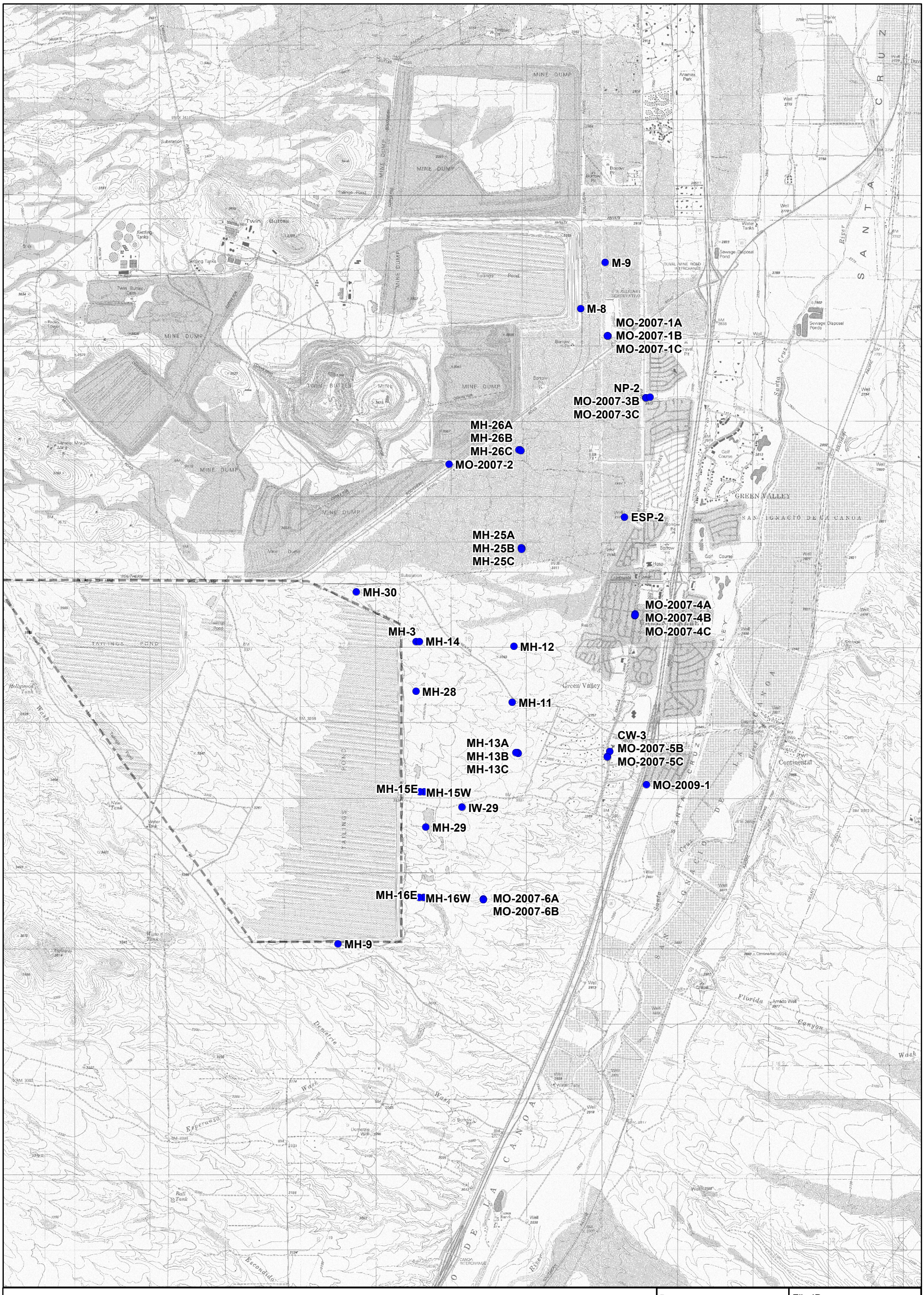



Note: amsl = above mean sea level

CLEAR CREEK ASSOCIATES

Date 2/17/16

FIGURE 13
Groundwater Elevations at Sentinel Wells




**Legend**

● Well with Monthly Water Level Measurement

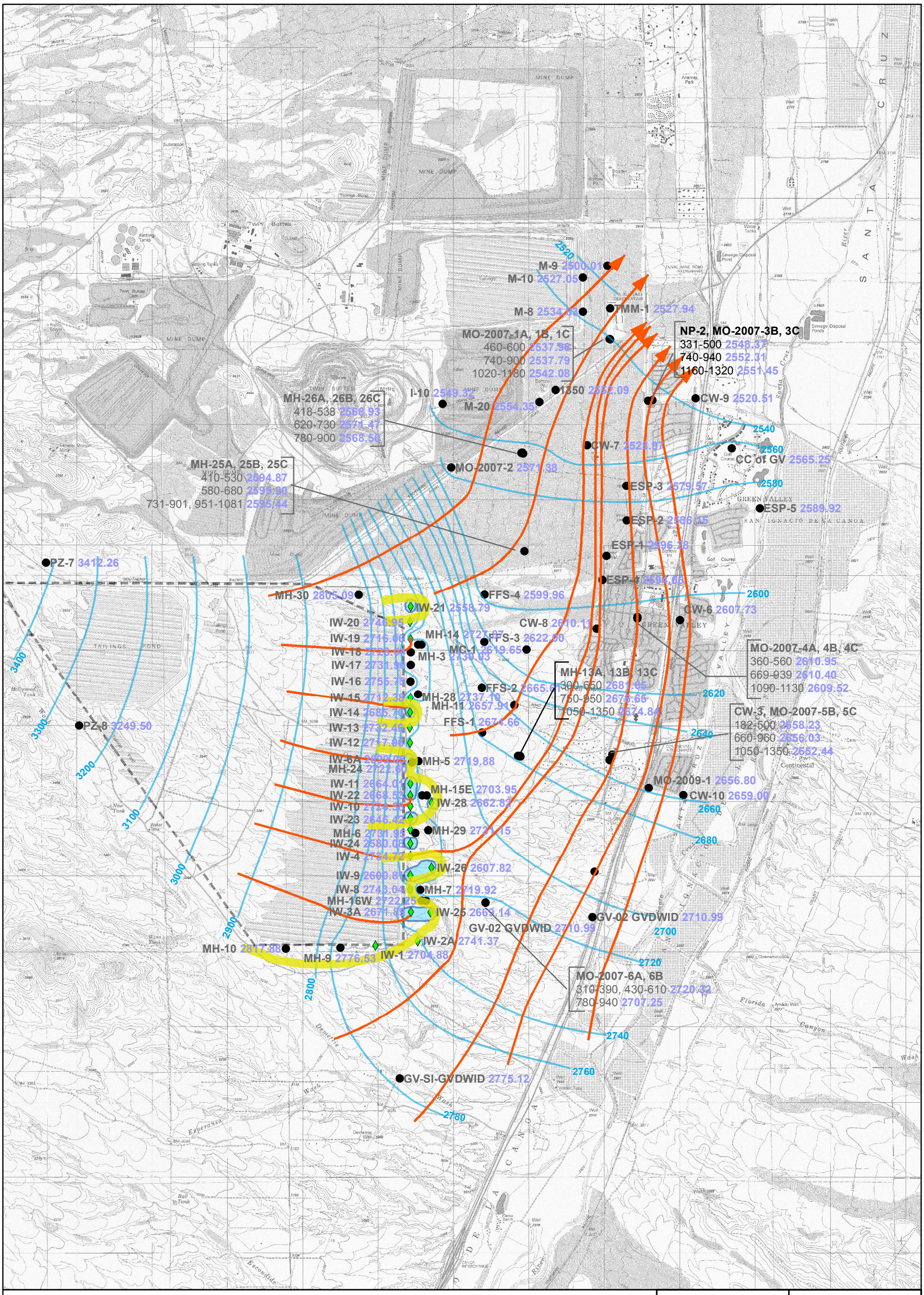
0 2,000 4,000 8,000

Feet

| Date | File ID |
|---|---|
| 3/9/16 | 055039-133 |

CLEAR CREEK ASSOCIATES

FIGURE 14
Location of Additional
Water Level Measurements
During Mitigation Plan Start




**Legend**

- **CW-9** Well ID
- 2520.51 Groundwater Elevation (ft amsl)
- Groundwater Elevation Contour (ft amsl)
- Groundwater Depression
- Interpreted Groundwater Flow Line
- Interpreted Capture Zones

Co-Located Wells
Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

NOTE:
The groundwater elevation contour intervals are irregular.

0 2,000 4,000 8,000
Feet

**Well Symbols**

- Well with Static Water Level
- Well with Dynamic Water Level

| Date | File ID |
|---|---|
| 2/18/16 | 055039-137 |

CLEAR CREEK ASSOCIATES

FIGURE 15
Capture Zone Analysis,
Second Quarter 2013

1759 2505.42
ST-6 2499.63
CW-11 2460.03
M-13 2507.29
M-5 2506.71
M-11 2505.71
1225 2507.52
MO-2007-1A, 1B, 1C
460-600 2517.44
740-900 2515.26
1020-1180 2517.40
M-9 2512.52
GV-02-PCWW 2610.40
M-10 2514.22
GV-01-PCWW 2603.50
M-8 2512.97
2125 2517.00
PS-3 2498.85
PS-2 2500.67
PS-1 2504.67
PS-4 2508.14
NP-2, MO-2007-3B, 3C
331-500 UTM
740-940 2526.29
1160-1320 2525.80
1350 2521.46
MH-26A, 26B, 26C
418-538 UTM
620-730 2534.71
780-900 2529.89
I-10 2523.01
M-20 2524.69
CW-9 2502.83
CW-7 2525.75
MC-4 2526.94
MO-2007-2 2533.54
MC-3 2530.98
ESP-3 2541.95
FFS-6 2522.69
ESP-5 2578.90
MH-25A, 25B, 25C
410-530 2553.38
580-680 2555.28
731-901, 951-1081 UTM
FFS-5 2524.73
ESP-2 2555.19
PZ-7 3412.68
MC-2 2555.08
ESP-4 2564.97
MH-30 2801.17
MH-1 2718.60
FFS-4 2556.50
IW-21 2737.67
IW-20 2733.41
CW-8 2573.26
CW-6 2583.00
FICO C-4 2573.49
IW-19 2723.99
MH-3 2710.47
FFS-3 2574.40
FICO E-6 2581.85
IW-18 UTM
MC-1 2578.37
MH-14 2705.53
MO-2007-4A, 4B, 4C
360-560 2582.54
669-939 2575.30
1090-1130 2572.87
IW-17 2717.17
MH-12 UTM
IW-16 2748.77
SIERRITA
TAILING
IMPOUNDMENT
FFS-2 2590.61
IW-15 2743.82
MH-28 2727.32
MH-11 2620.24
IW-14 2746.37
IW-13 2744.55
PZ-8 3246.25
FFS-1 2639.85
IW-12 2689.58
CW-3, MO-2007-5B, 5C
182-500 2637.60
660-960 2632.48
1050-1350 2628.08
IW-6A 2728.46
MH-5 2715.02
MH-24 2726.34
IW-11 2624.10
MH-15W 2715.71
MO-2009-1 2621.36
IW-22 2728.15
MH-15E 2710.06
CW-10 2637.55
IW-10 UTM
IW-28 2676.21
IW-23 2748.58
IW-29 2650.20
MH-13A, 13B, 13C
300-650 2655.21
750-950 2649.99
1050-1350 2645.59
IW-5A 2701.42
MH-29 2720.63
MH-6 2730.77
IW-27 2649.23
IW-24 2753.49
IW-4 2714.96
IW-26 2660.73
IW-9 2737.29
MH-7 2718.60
IW-8 2677.59
MH-16E 2718.08
MH-16W 2718.81
IW-3A 2680.45
IW-25 2652.96
GV-02 GVDWID 2707.37
IW-2A 2702.28
MH-10 2813.75
MH-9 2774.06
IW-1 2702.19
MO-2007-6A, 6B
310-390 2709.99
780-940 2695.30
GV-SI-GVDWID 2768.27
S-1 2752

**Legend**

- Groundwater Depression
- 200 ft Groundwater Elevation Contour (ft amsl)
- 20 ft Groundwater Elevation Contour (ft amsl)
- 10 ft Groundwater Elevation Contour (ft amsl)
- Flowline
- Capture Zone

Co-Located Wells

Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

0 2,000 4,000 8,000

Feet

**Well labels**

- Wells with Static Water Levels
- Wells with Dynamic Water Levels

**CW-6** Well ID
**2583.00** Groundwater Elevation

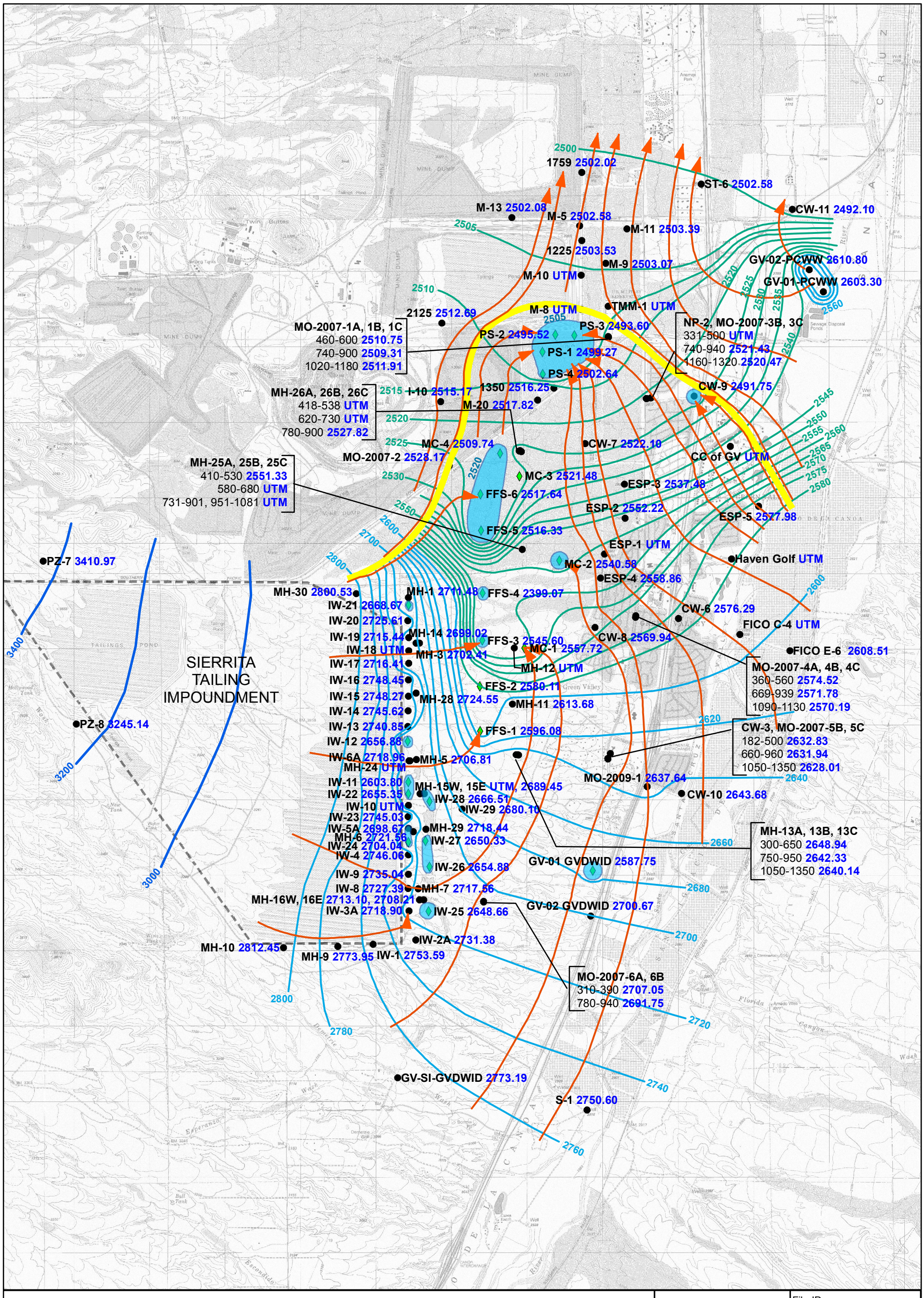
UTM = Unable to Measure

CLEAR CREEK ASSOCIATES

File ID
055039-169

Date
2/22/16

FIGURE 16
Capture Zone Analysis,
Second Quarter 2015




**Legend**

- Groundwater Depression
- 5 ft Groundwater Elevation (ft amsl)
- 20 Groundwater Contour (ft amsl)
- 200 ft Groundwater Contour (ft amsl)
- Flowline
- Capture Zone

Co-Located Wells

Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

**Well labels**

- Wells with Static Water Levels
- Wells with Dynamic Water Levels

**CW-3** / **2632.83** — Well ID / Groundwater Elevation (ft amsl)

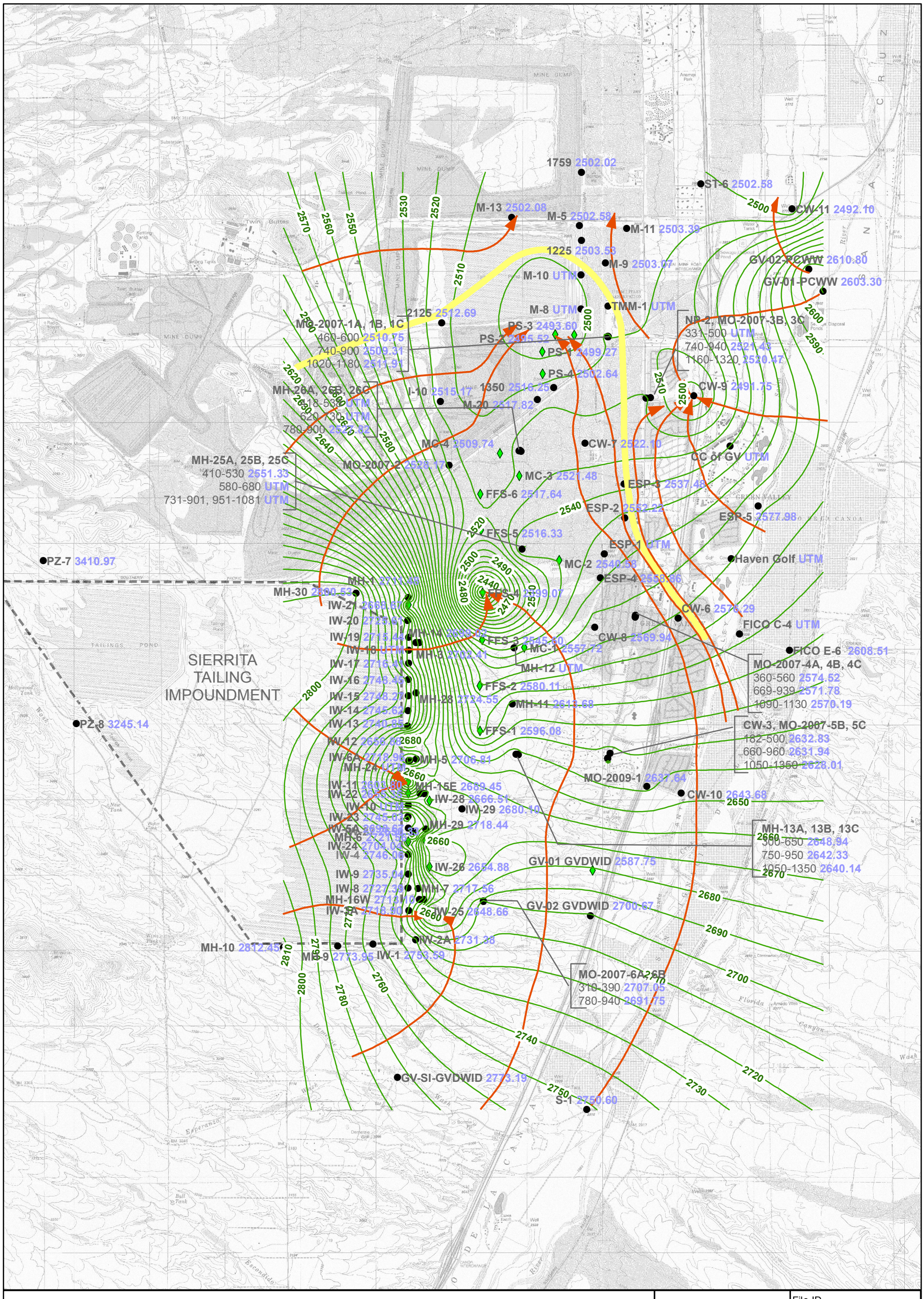
UTM = Unable to Measure

CLEAR CREEK ASSOCIATES

File ID: 055039-168

Date: 2/19/16

FIGURE 17
Capture Zone Analysis,
Fourth Quarter 2015




**Legend**

- Flow Line
- Capture Zone
- Q4 2015 Kriged Groundwater Elevation Contours (ft amsl)

Co-Located Wells

Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

0 2,000 4,000 8,000

Feet

**Well labels**

- Wells with Static Water Levels
- Wells with Dynamic Water Levels

**CW-3**
**2632.83**
Well ID
Groundwater Elevation (ft amsl)

UTM = Unable to Measure

CLEAR CREEK ASSOCIATES

File ID
055039-170

Date
3/3/16

FIGURE 18
Capture Zone Analysis,
Kriged Water Elevations for
Fourth Quarter 2015

SIERRITA TAILING IMPOUNDMENT

1759
ST-6
CW-11
M-13
M-5
M-11
1225
M-9
M-10
GV-02-PCWW
GV-01-PCWW
M-8
TMM-1
2125
PS-3
PS-2
MO-2007-1A, 1B, 1C
PS-1
PS-4
1350
M-20
I-10
CW-9
NP-2, MO-2007-3B, 3C
CW-7
CC of GV
MC-4
MH-26A, 26B, 26C
MO-2007-2
MC-3
ESP-3
FFS-6
ESP-5
ESP-2
FFS-5
MH-25A
MC-2
ESP-1
Haven Golf
PZ-7
ESP-4
MH-30
MH-1
IW-21
FFS-4
MO-2007-4A, 4B, 4C
CW-6
IW-20
CW-8
IW-19
MH-3
FFS-3
MC-1
FICO C-4
IW-18
MH-14
MH-12
FICO E-6
IW-17
IW-16
FFS-2
IW-15
MH-28
MH-11
IW-14
PZ-8
IW-13
FFS-1
IW-12
MH-13A, 13B, 13C
CW-3
IW-6A
MH-5
MH-24
MO-2007-5B, 5C
IW-11
MO-2009-1
IW-22
MH-15W, 15E
CW-10
IW-10
IW-28
IW-29
IW-23
IW-5A
MH-29
MH-6
IW-24
IW-27
IW-4
IW-26
GV-01 GVDWID
IW-9
IW-8
MH-7
MH-16W, 16E
MO-2007-6A, 6B
IW-3A
IW-25
GV-02 GVDWID
MH-10
MH-9
IW-1
IW-2A
GV-SI-GVDWID
S-1

1500
1750
2000
2500
1250
750
500
250

## Legend

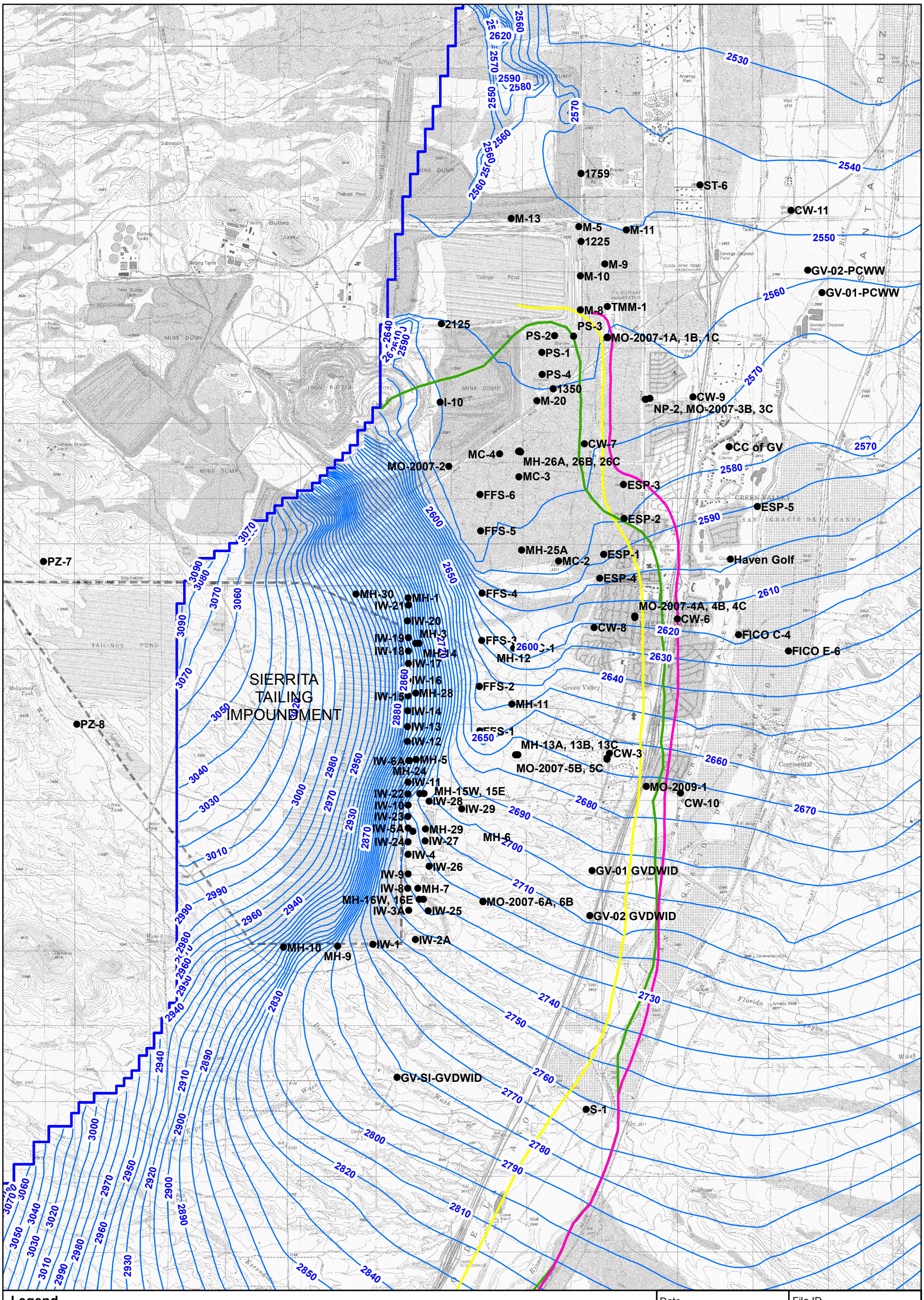
- Well with ID
- Q4 2015 250 mg/L Sulfate Concentration Contour
- Simulated 2015 Sulfate Concentration (mg/L)
- Model Extents

0 2,000 4,000 8,000
Feet

| Date | File ID |
|---|---|
| 3/21/16 | 055039-172 |

CLEAR CREEK ASSOCIATES

FIGURE 19
Simulated Sulfate Concentrations for 2015




| Legend | |
|---|---|
| ● | Well with ID |
| — | Simulated Water Table Elevation (ft amsl) |
| — | 2014 Simulated Capture Zone Layer 1 |
| — | 2014 Simulated Capture Zone Layer 2 |
| — | 2014 Simulated Capture Zone Layer 3 |

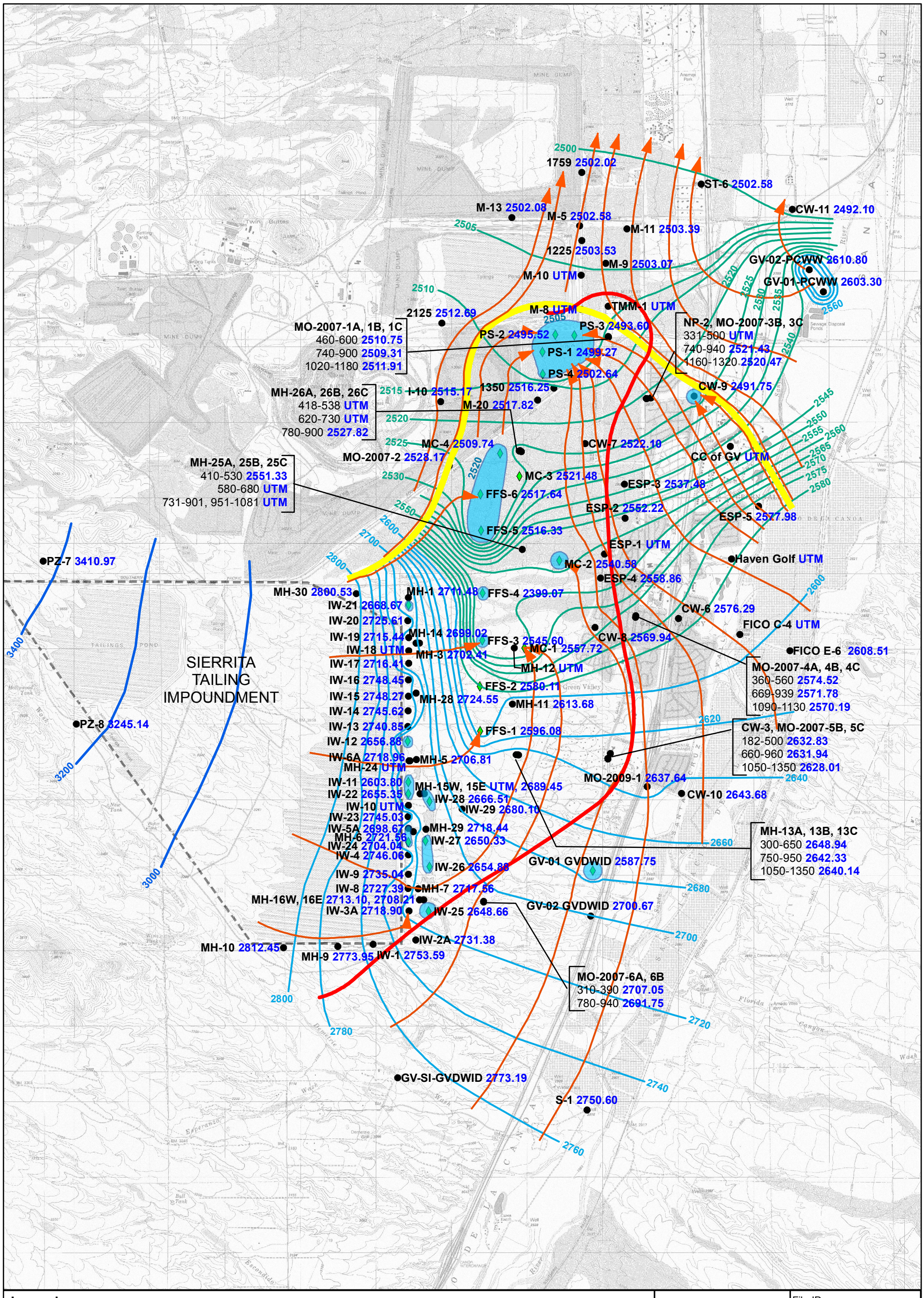
0 2,000 4,000 8,000
Feet

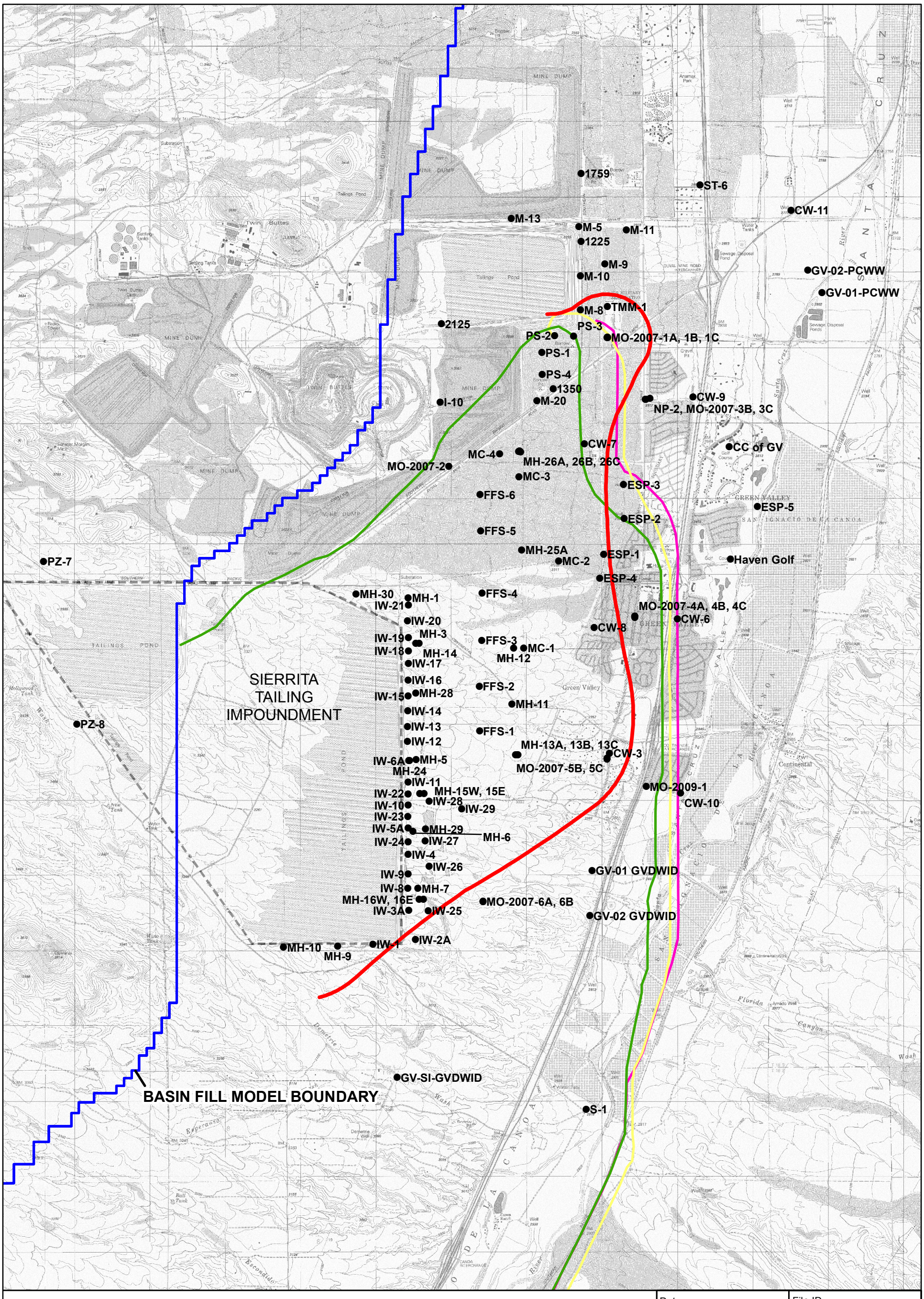
| Date | File ID |
|---|---|
| 3/21/16 | 055039-171 |

CLEAR CREEK ASSOCIATES

FIGURE 20
Simulated 2015
Groundwater Elevations
and Capture Zone

NOTES:
Projection: UTM NAD83 Zone 12N.


2500
1759 2502.02
ST-6 2502.58
CW-11 2492.10
M-13 2502.08
M-5 2502.58
2505
M-11 2503.39
1225 2503.53
M-9 2503.07
GV-02-PCWW 2610.80
M-10 UTM
GV-01-PCWW 2603.30
2510
M-8 UTM
TMM-1 UTM
2125 2512.69
2505
PS-3 2493.60
MO-2007-1A, 1B, 1C
460-600 2510.75
740-900 2509.31
1020-1180 2511.91
PS-2 2495.52
NP-2, MO-2007-3B, 3C
331-500 UTM
740-940 2521.43
1160-1320 2520.47
PS-1 2499.27
PS-4 2502.64
CW-9 2491.75
MH-26A, 26B, 26C
418-538 UTM
620-730 UTM
780-900 2527.82
2515
I-10 2515.17
1350 2516.25
M-20 2517.82
2520
2525
MC-4 2509.74
CW-7 2522.10
MO-2007-2 2528.17
CC of GV UTM
MH-25A, 25B, 25C
410-530 2551.33
580-680 UTM
731-901, 951-1081 UTM
2530
MC-3 2521.48
ESP-3 2537.48
2520
FFS-6 2517.64
ESP-2 2552.22
ESP-5 2577.98
2550
2600
FFS-5 2516.33
2700
ESP-1 UTM
2800
MC-2 2540.58
Haven Golf UTM
PZ-7 3410.97
ESP-4 2558.86
MH-30 2800.53
MH-1 2711.48
FFS-4 2399.07
IW-21 2668.67
CW-6 2576.29
IW-20 2725.61
FICO C-4 UTM
MH-14 2699.02
IW-19 2715.44
FFS-3 2545.60
CW-8 2569.94
IW-18 UTM
MC-1 2557.72
FICO E-6 2608.51
MH-3 2702.41
3400
IW-17 2716.41
MH-12 UTM
MO-2007-4A, 4B, 4C
360-560 2574.52
669-939 2571.78
1090-1130 2570.19
IW-16 2748.45
SIERRITA
TAILING
IMPOUNDMENT
FFS-2 2580.11
IW-15 2748.27
MH-28 2724.55
MH-11 2613.68
IW-14 2745.62
IW-13 2740.85
2620
CW-3, MO-2007-5B, 5C
182-500 2632.83
660-960 2631.94
1050-1350 2628.01
PZ-8 3245.14
FFS-1 2596.08
IW-12 2656.88
IW-6A 2718.96
MH-5 2706.81
MH-24 UTM
3200
MO-2009-1 2637.64
2640
IW-11 2603.80
MH-15W, 15E UTM, 2689.45
IW-22 2655.35
IW-28 2666.51
CW-10 2643.68
IW-10 UTM
IW-29 2680.10
IW-23 2745.03
IW-5A 2698.67
MH-29 2718.44
MH-13A, 13B, 13C
300-650 2648.94
750-950 2642.33
1050-1350 2640.14
MH-6 2721.56
IW-27 2650.33
2660
IW-24 2704.04
IW-4 2746.06
GV-01 GVDWID 2587.75
IW-26 2654.88
3000
IW-9 2735.04
2680
IW-8 2727.39
MH-7 2717.56
MH-16W, 16E 2713.10, 2708.21
GV-02 GVDWID 2700.67
IW-3A 2718.90
IW-25 2648.66
2700
IW-2A 2731.38
MH-10 2812.45
MH-9 2773.95
IW-1 2753.59
MO-2007-6A, 6B
310-390 2707.05
780-940 2691.75
2800
2720
2780
GV-SI-GVDWID 2773.19
2740
S-1 2750.60
2760
Legend
Groundwater Depression
5 ft Groundwater Elevation (ft amsl)
20 ft Groundwater Contour (ft amsl)
200 ft Groundwater Contour (ft amsl)
Flowline
Interpreted Wellfield Capture Zone
Target Capture Zone (2015 250 mg/L Sulfate Concentration Contour 4Q 2015)
0
2,000
4,000
8,000
Feet
Well labels
Wells with Static Water Levels
Wells with Dynamic Water Levels
CW-3
2632.83
Well ID
Groundwater Elevation (ft amsl)
UTM = Unable to Measure
CLEAR CREEK ASSOCIATES
File ID
055039-168A
Date
3/17/16
FIGURE 21
Interpreted and Target Capture Zones,
Fourth Quarter 2015




**Legend**

- Well with ID
- 2015 Simulated Capture Zone Layer 1
- 2015 Simulated Capture Zone Layer 2
- 2015 Simulated Capture Zone Layer 3
- Target Capture Zone (250 mg/L Sulfate Concentration Contour Q4 2015)

0 2,000 4,000 8,000

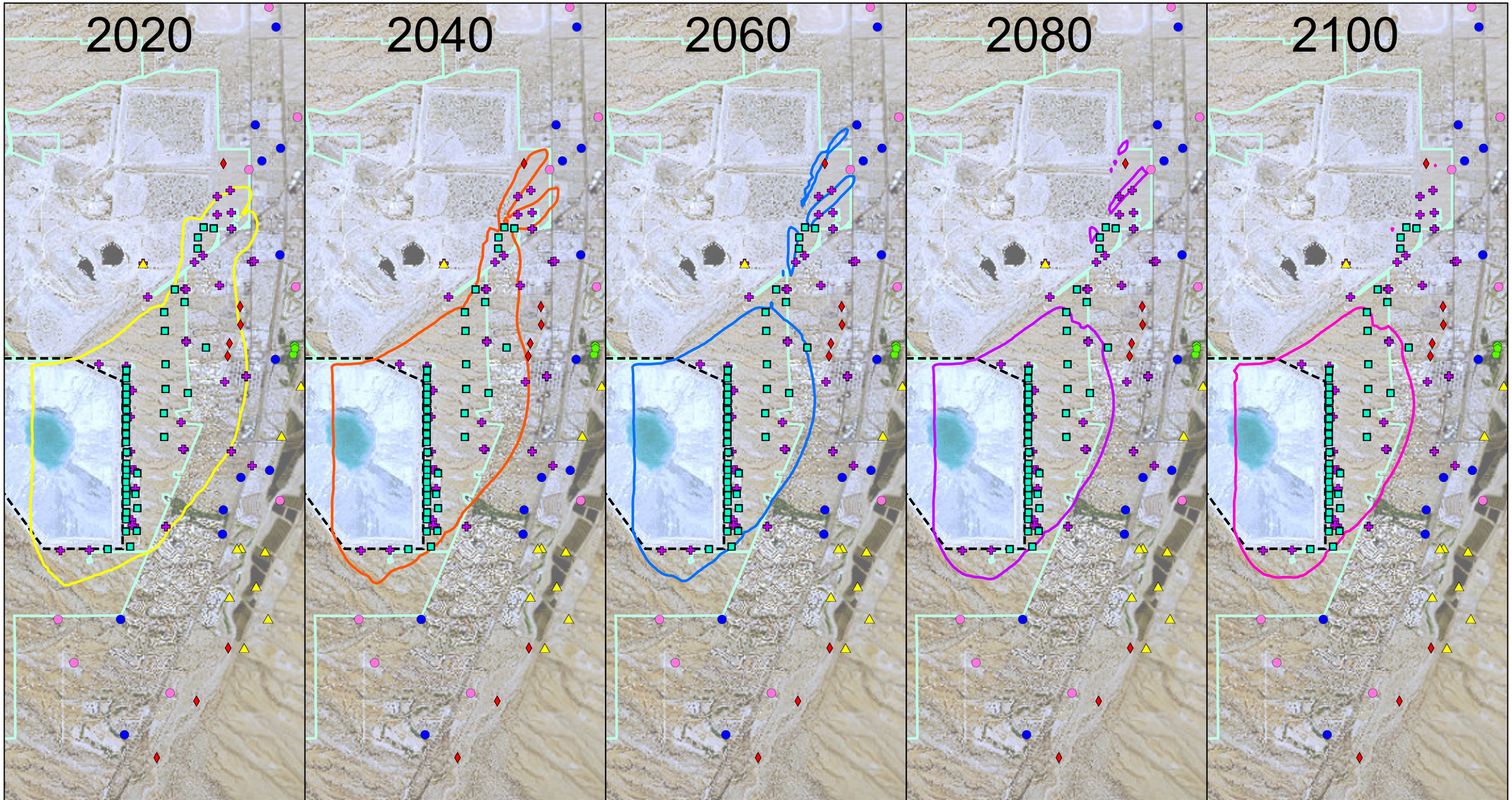
Feet

NOTES:
Projection: UTM NAD83 Zone 12N.

| Date | File ID |
|---|---|
| 3/17/16 | 055039-171A |

CLEAR CREEK ASSOCIATES

FIGURE 22
Simulated and Target Capture Zones for 2015




**Legend**

- Post-Implementation Monitoring Well
- Agriculture
- Golf Course
- Mining
- Mitigation Extraction Wells
- Municipal Supply
- Other Users
- 250 mg/L Contour in 2020
- 250 mg/L Contour in 2040
- 250 mg/L Contour in 2060
- 250 mg/L Contour in 2080
- 250 mg/L Contour in 2100
- Tailing Impoundment
- Sierrita Property Boundary

Scale (Feet)

0 8,000 16,000

**Notes:**

Projection: UTM Zone
12N NAD83
mg/L = milligrams per liter
Simulation Run: 3/30/15

Date 3/21/16

File ID 055039-175

CLEAR CREEK ASSOCIATES

FIGURE 23
Simulated Sulfate Concentration
from 2020 to 2100
for Contingency Plan Pumping Rates

# APPENDIX A

# SULFATE CONCENTRATION DATA

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| CC OF GV | 501760 | 1/15/07 | 7.31 | 23.0 | 767 | 133 |
| | | 4/16/07 | 7.44 | 22.6 | 767 | 133 |
| | | 7/9/07 | 7.58 | 24.5 | 658 | 104 |
| | | 1/10/08 | 7.27 | 22.5 | 689 | 143 |
| | | 4/16/08 | 7.37 | 25.2 | 426 | 69.4 |
| | | 7/7/08 | 6.97 | 23.7 | 736 | 119 |
| | | 10/9/08 | 7.26 | 24.8 | 476 | 72.4 |
| | | 2/4/09 | 8.08 | 13.8 | 399 | 107 |
| | | 4/21/09 | 6.92 | 19.8 | 526 | 90.1 |
| | | 4/22/10 | 6.99 | 21.26 | 929 | 95 |
| | | 4/21/11 | 6.95 | 17.6 | 494 | 82 |
| | | 6/26/12 | 7.13 | 27.7 | 565 | 88.69 |
| | | 5/14/13 | 7.46 | 23.3 | 706 | 147.80 |
| | | 4/23/14 | 6.94 | 22.3 | 744 | 156.00 |
| | | 5/13/15 | 6.97 | 23.2 | 547 | 102 |
| CW-3 | 627483 | 6/6/07 | 7.74 | 25.3 | 449 | 57.9 |
| | | 8/10/07 | 7.40 | 25.9 | 444 | 59.5 |
| | | 1/11/08 | 7.55 | 25.1 | 432 | 55.7 |
| | | 4/17/08 | 7.32 | 25.6 | 398 | 54.1 |
| | | 7/11/08 | 7.53 | 25.7 | 484 | 56.7 |
| | | 10/6/08 | 7.50 | 25.3 | 430 | 56.2 |
| | | 2/9/09 | 7.68 | 24.3 | 347 | 54.3 |
| | | 4/24/09 | 6.75 | 25.4 | 520 | 56.2 |
| | | 12/31/09 | 7.57 | 23.8 | 419 | 56.2 |
| | | 4/22/10 | 7.32 | 23.03 | 475 | 57.7 |
| | | 10/25/10 | 7.60 | 25.5 | 460 | 57.6 |
| | | 5/2/11 | 7.55 | 26.4 | 390 | 56.8 |
| | | 12/5/11 | 7.79 | 22.7 | 437 | 55.18 |
| | | 6/18/12 | 7.57 | 28.4 | 517 | 61.70 |
| | | 12/13/12 | 7.64 | 24.1 | 473 | 63.84 |
| | | 12/13/12 DUP | 7.64 | 24.1 | 473 | 64.04 |
| | | 6/13/13 | 7.63 | 24.4 | 444 | 70.8 |
| | | 11/12/13 | 7.24 | 23.8 | 417 | 67.2 |
| | | 11/12/13 DUP | 7.24 | 23.8 | 417 | 67.2 |
| | | 5/6/14 | 7.81 | 24.3 | 393 | 70.7 |
| | | 5/6/14 DUP | 7.81 | 24.3 | 393 | 70.6 |
| | | 10/15/14 | 7.78 | 24.8 | 424 | 67.5 |
| | | 5/11/15 | 7.63 | 25.2 | 364 | 71.4 |
| | | 5/11/15 DUP | 7.63 | 25.2 | 364 | 70.0 |
| | | 10/28/15 | 7.51 | 24.9 | 558 | 67.1 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| CW-6 | 627485 | 12/4/06 | NM | NM | NM | 46.2 |
| | | 1/3/07 | 7.73 | 26.8 | 418 | 49.2 |
| | | 1/3/07 | 7.73 | 26.8 | 418 | 49.5 |
| | | 5/14/07 | 7.58 | 26.1 | 507 | 68.7 |
| | | 7/10/07 | 7.60 | 26.9 | 475 | 57.6 |
| | | 7/10/07 | 7.60 | 26.9 | 475 | 58 |
| | | 1/8/08 | 7.64 | 27.1 | 368 | 48.9 |
| | | 4/15/08 | 7.25 | 26.9 | 382 | 51.2 |
| | | 7/8/08 | 7.43 | 27.2 | 416 | 47.9 |
| | | 10/7/08 | 7.52 | 26.6 | 431 | 51.5 |
| | | 10/7/08 DUP | 7.52 | 26.6 | 431 | 51.5 |
| | | 2/6/09 | 7.87 | 26.6 | 317 | 48.2 |
| | | 4/22/09 | 7.62 | 25.3 | 377 | 47.9 |
| | | 4/22/09 DUP | 7.62 | 25.3 | 377 | 47.3 |
| | | 9/17/09 | 7.18 | 24.8 | 478 | 70 |
| | | 11/5/09 | 7.52 | 25.1 | 434 | 59.7 |
| | | 2/10/10 | 7.68 | 24.4 | 369 | 46.6 |
| | | 5/14/10 | 7.70 | 26.50 | 380 | 52.1 |
| | | 7/27/10 | 7.50 | 27.5 | 444 | 55.2 |
| | | 10/14/10 | 7.67 | 26.2 | 429 | 52.5 |
| | | 2/24/11 | 7.57 | 23.4 | 455 | 70.3 |
| | | 4/28/11 | 7.66 | 25.2 | 453 | 58.1 |
| | | 7/20/11 | 7.52 | 25.5 | 417 | 81 |
| | | 12/14/11 | 7.76 | 23.7 | 429 | 54.50 |
| | | 12/14/11 DUP | 7.76 | 23.7 | 429 | 54.42 |
| | | 1/24/12 | 7.49 | 25.2 | 303 | 60.17 |
| | | 5/9/12 | 7.70 | 26.5 | 489 | 80.99 |
| | | 8/29/12 | 7.44 | 25.2 | 537 | 82.24 |
| | | 12/12/12 | 7.47 | 23.6 | 541 | 82.98 |
| | | 2/6/13 | 7.32 | 24.0 | 457 | 76.54 |
| | | 5/15/13 | 7.63 | 24.7 | 513 | 91.94 |
| | | 7/17/13 | 7.47 | 25.3 | 500 | 91.60 |
| | | 10/23/13 | 7.50 | 25.1 | 365 | 85.1 |
| | | 1/14/14 | 7.49 | 22.4 | 395 | 87.2 |
| | | 4/16/14 | 7.65 | 24.4 | 434 | 85.6 |
| | | 7/22/14 | 7.21 | 25.5 | 614 | 78.0 |
| | | 10/13/14 | 7.71 | 23.9 | 464 | 79.5 |
| | | 1/13/15 | 7.82 | 23.6 | 433 | 80.5 |
| | | 4/14/15 | 7.31 | 24.4 | 430 | 91.1 |
| | | 7/27/15 | 7.76 | 25.9 | 572 | 94.8 |
| | | 7/27/15 DUP | 7.76 | 25.9 | 572 | 94.3 |
| | | 10/20/15 | 7.65 | 24.6 | 563 | 85.9 |
| CW-7 | 502546 | 1/3/07 | 7.38 | 27.4 | 1799 | 807 |
| | | 5/14/07 | 7.40 | 27.4 | 1860 | 874 |
| | | 7/10/07 | 7.32 | 27.4 | 1945 | 860 |
| | | 1/8/08 | 7.26 | 27.3 | 1860 | 1080 |
| | | 4/15/08 | 7.31 | 27.6 | 1758 | 900 |
| | | 7/8/08 | 7.11 | 27.9 | 2037 | 890 |
| | | 7/8/08 DUP | 7.11 | 27.9 | 2037 | 910 |
| CW-8 | 543600 | 1/24/07 | 7.67 | 29.7 | 1232 | 449 |
| | | 5/14/07 | 7.69 | 29.4 | 1379 | 529 |
| | | 7/10/07 | 7.63 | 29.8 | 1401 | 500 |
| | | 1/8/08 | 7.59 | 7.6 | 1160 | 466 |
| | | 4/15/08 | 7.54 | 29.5 | 1135 | 441 |
| | | 7/8/08 | 7.40 | 29.8 | 1373 | 504 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| CW-9 | 588121 | 12/4/06 | NM | NM | NM | 44.5 |
| | | 1/3/07 | 7.74 | 27.0 | 387 | 44.9 |
| | | 5/14/07 | 7.74 | 27.5 | 414 | 47.8 |
| | | 7/10/07 | 7.68 | 22.6 | 414 | 46.7 |
| | | 1/8/08 | 7.55 | 27.3 | 356 | 47.3 |
| | | 4/15/08 | 7.39 | 27.4 | 347 | 43.7 |
| | | 7/8/08 | 7.26 | 27.9 | 396 | 44.1 |
| | | 10/7/08 | 7.50 | 27.7 | 395 | 43.5 |
| | | 2/6/09 | 7.79 | 26.8 | 300 | 45.1 |
| | | 4/22/09 | 7.81 | 26.3 | 361 | 44.3 |
| | | 7/30/09 | 7.57 | 28.3 | 379 | 43.8 |
| | | 11/5/09 | 6.82 | 27.4 | 376 | 44.7 |
| | | 2/10/10 | 7.55 | 26.0 | 351 | 43.4 |
| | | 5/14/10 | 7.62 | 28.1 | 345 | 44.2 |
| | | 7/27/10 | 7.58 | 28.4 | 390 | 44.1 |
| | | 10/14/10 | 7.72 | 27.5 | 389 | 44.2 |
| | | 2/24/11 | 7.75 | 26.3 | 347 | 42.7 |
| | | 4/28/11 | 7.68 | 28.8 | 377 | 44.4 |
| | | 7/20/11 | 7.71 | 27.8 | 379 | 43.9 |
| | | 12/14/11 | 7.69 | 26.5 | 373 | 43.80 |
| | | 1/24/12 | 7.70 | 25.1 | 262 | 45.60 |
| | | 5/9/12 | 7.67 | 28.3 | 356 | 44.39 |
| | | 8/29/12 | 7.62 | 27.9 | 372 | 43.94 |
| | | 12/12/12 | 7.75 | 26.6 | 382 | 42.14 |
| | | 2/6/13 | 7.43 | 26.7 | 325 | 39.87 |
| | | 5/15/13 | 7.70 | 27.0 | 367 | 45.78 |
| | | 7/17/13 | 7.66 | 28.1 | 374 | 43.70 |
| | | 10/23/13 | 7.66 | 26.9 | 260 | 44.4 |
| | | 1/14/14 | 7.60 | 26.1 | 275 | 44.3 |
| | | 1/14/14 DUP | 7.60 | 26.1 | 275 | 44.1 |
| | | 4/16/14 | 7.84 | 26.7 | 304 | 44.2 |
| | | 7/22/14 | 7.47 | 27.6 | 446 | 41.8 |
| | | 7/22/14 DUP | 7.47 | 27.6 | 446 | 42.0 |
| | | 10/13/14 | 7.97 | 27.0 | 329 | 42.0 |
| | | 1/13/15 | 8.05 | 26.3 | 309 | 44.7 |
| | | 4/14/15 | 7.52 | 27.0 | 311 | 47.0 |
| | | 7/27/15 | 7.82 | 27.4 | 412 | 49.0 |
| | | 10/20/15 | 7.87 | 26.5 | 432 | 45.9 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| CW-10 | 207982 | 12/4/06 | NM | NM | NM | 37.2 |
| | | 1/24/07 | 7.90 | 30.2 | 385 | 48.6 |
| | | 5/14/07 | 7.81 | 31.3 | 392 | 52.8 |
| | | 7/10/07 | 7.82 | 31.3 | 403 | 51.7 |
| | | 1/8/08 | 7.79 | 28.2 | 334 | 45.3 |
| | | 4/15/08 | 7.51 | 30.6 | 339 | 50.8 |
| | | 7/8/08 | 7.34 | 31.2 | 385 | 50.5 |
| | | 10/7/08 | 7.59 | 30.5 | 380 | 48.3 |
| | | 2/6/09 | 7.91 | 29.8 | 295 | 51.3 |
| | | 4/22/09 | 7.71 | 29.2 | 349 | 47.9 |
| | | 7/30/09 | 7.60 | 31.5 | 375 | 49.2 |
| | | 7/30/09 DUP | 7.60 | 31.5 | 375 | 49.4 |
| | | 11/5/09 | 7.60 | 29.7 | 364 | 49.9 |
| | | 2/10/10 | 7.69 | 28.4 | 346 | 44.9 |
| | | 5/14/10 | 7.79 | 30.7 | 349 | 49.1 |
| | | 7/27/10 | 7.69 | 31.4 | 380 | 48.9 |
| | | 10/14/10 | 7.74 | 30.2 | 377 | 48.5 |
| | | 2/24/11 | 7.83 | 29.3 | 346 | 50.2 |
| | | 2/24/11 DUP | 7.83 | 29.3 | 346 | 50.2 |
| | | 4/28/11 | 7.54 | 27.9 | 372 | 49.6 |
| | | 7/20/11 | 7.72 | 31.4 | 383 | 50.7 |
| | | 12/14/11 | 7.81 | 29.8 | 370 | 49.24 |
| | | 1/24/12 | 7.77 | 28.7 | 265 | 52.32 |
| | | 5/9/12 | 7.85 | 30.9 | 354 | 52.51 |
| | | 8/29/12 | 7.74 | 31.4 | 369 | 50.95 |
| | | 12/12/12 | 7.77 | 29.3 | 392 | 52.33 |
| | | 2/6/13 | 7.52 | 29.3 | 332 | 47.91 |
| | | 5/15/13 | 7.85 | 30.6 | 365 | 52.35 |
| | | 5/15/13 DUP | 7.85 | 30.6 | 365 | 52.77 |
| | | 7/17/13 | 8.12 | 31.5 | 353 | 54.80 |
| | | 10/25/13 | 7.70 | 29.8 | 260 | 51.7 |
| | | 1/14/14 | 7.45 | 29.2 | 266 | 50.8 |
| | | 4/16/14 | 7.93 | 30.0 | 298 | 50.2 |
| | | 7/22/14 | 7.93 | 31.0 | 427 | 47.9 |
| | | 10/13/14 | 7.98 | 30.7 | 322 | 48.2 |
| | | 1/13/15 | 8.05 | 29.9 | 296 | 48.5 |
| | | 4/14/15 | 7.60 | 29.9 | 315 | 56.7 |
| | | 4/14/15 DUP | 7.60 | 29.9 | 315 | 57.5 |
| | | 7/27/15 | 7.83 | 31.2 | 399 | 55.1 |
| | | 10/20/15 | 7.90 | 30.2 | 415 | 46.6 |
| ESP-1 | 623102 | 12/4/06 | NM | NM | NM | 262 |
| | | 1/3/07 | 7.65 | 28.0 | 869 | 242 |
| | | 5/14/07 | 7.70 | 28.7 | 592 | 113 |
| | | 7/10/07 | 7.66 | 28.8 | 584 | 94 |
| | | 1/23/08 | 7.73 | 27.6 | 492 | 100 |
| | | 4/18/08 | 7.61 | 29.6 | 474 | 102 |
| | | 7/25/08 | 7.52 | 28.4 | 561 | 104 |
| | | 10/30/08 | 7.55 | 26.9 | 576 | 121 |
| | | 1/29/09 | 7.44 | 25.2 | 491 | 113 |
| | | 4/16/09 | 7.72 | 25.4 | 541 | 130 |
| | | 11/10/09 | 7.45 | 26.8 | 649 | 173 |
| | | 4/28/10 | 7.49 | 28.7 | 639 | 204 |
| | | 10/15/10 | 7.49 | 27.7 | 953 | 291 |
| | | 5/3/11 | 7.51 | 28.1 | 1060 | 359 |
| | | 12/13/11 | 7.49 | 26.1 | 1046 | 387.52 |
| | | 6/19/12 | 7.43 | 30.4 | 1221 | 395.72 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| ESP-2 | 623103 | 12/4/06 | NM | NM | NM | 29.6 |
| | | 1/3/07 | 7.82 | 28.4 | 377 | 31.3 |
| | | 5/14/07 | 7.86 | 27.8 | 368 | 28.4 |
| | | 7/10/07 | 7.73 | 28.9 | 380 | 28.6 |
| | | 1/23/08 | 7.85 | 25.8 | 366 | 30 |
| | | 4/18/08 | 7.80 | 27.3 | 325 | 27.6 |
| | | 7/25/08 | 7.65 | 28.6 | 361 | 26.8 |
| | | 10/30/08 | 7.22 | 27.5 | 374 | 30.1 |
| | | 10/30/08 DUP | 7.22 | 27.5 | 374 | 30 |
| | | 1/29/09 | 6.38 | 25.4 | 317 | 27.8 |
| | | 4/16/09 | 7.55 | 24.0 | 307 | 28.2 |
| | | 11/10/09 | 7.58 | 27.0 | 343 | 28.9 |
| | | 4/28/10 | 7.67 | 27.9 | 324 | 28.7 |
| | | 10/15/10 | 7.78 | 27.6 | 355 | 27.9 |
| | | 10/15/10 DUP | 7.78 | 27.6 | 355 | 27.8 |
| | | 5/3/11 | 7.72 | 27.8 | 361 | 28.1 |
| | | 5/3/11 DUP | 7.72 | 27.8 | 361 | 28.1 |
| | | 11/22/11 | 7.84 | 26.0 | 350 | 26.65 |
| | | 6/19/12 | 7.65 | 31.7 | 387 | 27.75 |
| | | 11/21/12 | 7.55 | 28.8 | 333 | 26.79 |
| | | 5/20/13 | 7.70 | 28.2 | 350 | 27.86 |
| | | 11/5/13 | 7.72 | 27.9 | 245 | 26.9 |
| | | 4/28/14 | 7.91 | 27.5 | 291 | 28.3 |
| | | 10/1/14 | 7.96 | 28.3 | 327 | 26.8 |
| | | 5/12/15 | 7.89 | 27.5 | 274 | 29.1 |
| | | 10/21/15 | 7.84 | 27.4 | 321 | 30.2 |
| ESP-3 | 623104 | 12/4/06 | NM | NM | NM | 36.2 |
| | | 1/3/07 | 7.83 | 27.8 | 393 | 37.5 |
| | | 5/14/07 | 7.78 | 28.8 | 374 | 36.6 |
| | | 5/14/07 | 7.78 | 28.8 | 374 | 36.6 |
| | | 7/10/07 | 7.84 | 29.2 | 378 | 36.6 |
| | | 1/23/08 | 7.99 | 26.1 | 373 | 30 |
| | | 4/18/08 | 7.82 | 27.8 | 322 | 35.7 |
| | | 7/25/08 | 7.70 | 28.2 | 358 | 34 |
| | | 10/30/08 | 7.58 | 27.8 | 375 | 36.8 |
| | | 1/29/09 | 7.73 | 23.9 | 327 | 35.2 |
| | | 4/16/09 | 7.62 | 26.1 | 327 | 35.3 |
| | | 11/12/09 | 7.71 | 27.0 | 354 | 39.5 |
| | | 4/28/10 | 7.77 | 25.8 | 326 | 35.8 |
| | | 10/15/10 | 7.76 | 27.5 | 356 | 35.2 |
| | | 5/3/11 | 7.82 | 27.2 | 362 | 35.1 |
| | | 11/22/11 | 7.95 | 27.6 | 337 | 34.18 |
| | | 6/19/12 | 7.87 | 30.6 | 390 | 34.98 |
| | | 11/21/12 | 7.59 | 28.4 | 327 | 35.4 |
| | | 5/22/13 | 7.71 | 26.7 | 368 | 35.87 |
| | | 11/5/13 | 7.76 | 27.2 | 242 | 35.6 |
| | | 4/28/14 | 7.90 | 27.7 | 287 | 35.9 |
| | | 10/1/14 | 7.99 | 28.2 | 324 | 33.6 |
| | | 5/12/15 | 7.90 | 27.8 | 269 | 36.4 |
| | | 10/21/15 | 7.94 | 28.4 | 312 | 36.9 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| ESP-4 | 623105 | 3/20/07 | 7.67 | 26.7 | 1187 | 393 |
| | | 6/4/07 | 7.45 | 28.4 | 733 | 385 |
| | | 7/24/07 | 7.34 | 28.4 | 918 | 410 |
| | | 7/24/07 | 7.34 | 28.4 | 918 | 420 |
| | | 1/23/08 | 7.83 | 24.4 | 787 | 520 |
| | | 4/18/08 | 7.71 | 27.2 | 821 | 462 |
| | | 7/25/08 | 7.52 | 28.6 | 1096 | 420 |
| | | 10/30/08 | 7.23 | 25.9 | 962 | 489 |
| | | 1/29/09 | 7.52 | 24.7 | 950 | 522 |
| | | 4/16/09 | 7.30 | 25.4 | 873 | 521 |
| | | 10/23/09 | 7.41 | 27.8 | 954 | 485 |
| | | 4/28/10 | 7.37 | 26.7 | 936 | 558 |
| | | 4/28/10 DUP | 7.37 | 26.7 | 936 | 520 |
| | | 10/15/10 | 7.41 | 27.9 | 1356 | 539 |
| | | 5/3/11 | 7.54 | 27.1 | 1465 | 595 |
| | | 11/12/12 | 7.60 | 26.3 | 1337 | 618.5 |
| | | 5/20/13 | 7.46 | 28.5 | 1173 | 581.6 |
| | | 11/5/13 | 7.47 | 26.8 | 843 | 585 |
| | | 4/28/14 | 7.70 | 25.8 | 814 | 352 |
| | | 10/1/14 | 7.69 | 26.5 | 993 | 397 |
| | | 5/12/15 | 7.69 | 26.8 | 766 | 423 |
| | | 10/19/15 | 7.63 | 27.3 | 972 | 420 |
| | | 10/19/15 DUP | 7.63 | 27.3 | 972 | 420 |
| FFS-1 | 221662 | 2/4/14 | 7.63 | 23.2 | 3230 | 1780 |
| | | 2/4/14 DUP | 7.63 | 23.2 | 3230 | 1750 |
| | | 4/15/14 | 7.61 | 25.6 | 1871 | 1760 |
| | | 7/9/14 | 7.08 | 26.4 | 3080 | 1850 |
| | | 11/11/14 | 7.44 | 25.5 | 3170 | 1790 |
| | | 1/12/15 | 7.57 | 24.6 | 3150 | 1770 |
| | | 1/12/15 DUP | 7.57 | 24.6 | 3150 | 1760 |
| | | 7/15/15 | 7.64 | 27.2 | 2980 | 1770 |
| | | 11/3/15 | 7.41 | 24.6 | 1560 | 1750 |
| | | 11/3/15 DUP | 7.41 | 24.6 | 1560 | 1690 |
| FFS-2 | 221663 | 2/4/14 | 7.61 | 24.4 | 3120 | 1730 |
| | | 4/15/14 | 7.46 | 27.0 | 1788 | 1710 |
| | | 4/15/14 DUP | 7.46 | 27.0 | 1788 | 1730 |
| | | 7/9/14 | 6.97 | 27.4 | 2920 | 1840 |
| | | 7/9/14 DUP | 6.97 | 27.4 | 2920 | 1820 |
| | | 11/11/14 | 7.22 | 26.4 | 3100 | 1800 |
| | | 1/12/15 | 7.48 | 26.3 | 3050 | 1760 |
| | | 4/2/15 | 7.49 | 26.5 | 1570 | 1800 |
| | | 4/2/15 DUP | 7.49 | 26.5 | 1570 | 1800 |
| | | 7/15/15 | 6.45 | 28.2 | 2900 | 1850 |
| | | 11/3/15 | 7.35 | 25.4 | 1526 | 1760 |
| FFS-3 | 221664 | 2/4/14 | 7.37 | 29.5 | 2630 | 1450 |
| | | 4/15/14 | 7.41 | 31.1 | 1559 | 1440 |
| | | 7/9/14 | 6.98 | 32.0 | 2580 | 1560 |
| | | 11/11/14 | 7.16 | 30.3 | 2670 | 1570 |
| | | 1/12/15 | 7.43 | 29.6 | 1840 | 1500 |
| | | 4/2/15 | 7.38 | 29.3 | 1433 | 1490 |
| | | 7/15/15 | 6.93 | 31.6 | 2550 | 1560 |
| | | 11/3/15 | 7.49 | 29.1 | 1511 | 1480 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| FFS-4 | 221665 | 2/4/14 | 7.59 | 29.1 | 1857 | 1100 |
| | | 4/15/14 | 7.64 | 31.4 | 1347 | 1140 |
| | | 7/9/14 | 7.09 | 32.6 | 2190 | 1260 |
| | | 11/11/14 | 7.21 | 30.6 | 1821 | 1310 |
| | | 1/12/15 | 7.52 | 30.3 | 1603 | 1230 |
| | | 4/2/15 | 7.58 | 30.0 | 1317 | 1230 |
| | | 11/3/15 | 7.57 | 30.1 | 1439 | 1240 |
| FFS-5 | 221666 | 2/4/14 | 7.36 | 27.5 | 2580 | 1360 |
| | | 4/15/14 | 7.56 | 28.8 | 1528 | 1360 |
| | | 7/9/14 | 6.93 | 30.0 | 2460 | 1400 |
| | | 11/11/14 | 7.13 | 29.0 | 2570 | 1410 |
| | | 11/11/14 DUP | 7.13 | 29.0 | 2570 | 1320 |
| | | 1/12/15 | 7.48 | 28.5 | 1776 | 1360 |
| | | 4/2/15 | 7.40 | 28.0 | 1410 | 1390 |
| | | 7/15/15 | 6.47 | 30.5 | 2460 | 1430 |
| | | 11/3/15 | 7.41 | 28.2 | 1541 | 1400 |
| FFS-6 | 221667 | 2/4/14 | 7.41 | 27.4 | 2250 | 1260 |
| | | 4/15/14 | 7.53 | 29.2 | 1378 | 1130 |
| | | 7/9/14 | 6.94 | 29.9 | 2220 | 1210 |
| | | 11/11/14 | 7.10 | 28.4 | 1833 | 1170 |
| | | 1/12/15 | 7.52 | 29.2 | 1609 | 1180 |
| | | 1/12/15 DUP | 7.52 | 29.2 | 1609 | 1190 |
| | | 4/2/15 | 7.47 | 27.2 | 1323 | 1210 |
| | | 7/15/15 | 7.11 | 31.5 | 2190 | 1220 |
| | | 7/15/15 DUP | 7.11 | 31.5 | 2190 | 1260 |
| | | 11/4/15 | 7.16 | 26.6 | 1407 | 1200 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| GV-01-GVDWID | 603428 | 8/6/06 | NM | NM | NM | 41.2 |
| | | 1/9/07 | 8.00 | 25.8 | 424 | 40.9 |
| | | 4/10/07 | 7.69 | 27.2 | 421 | 43.2 |
| | | 7/11/07 | 7.64 | 26.8 | 447 | 41.5 |
| | | 1/7/08 | 7.49 | 25.7 | 422 | 45.7 |
| | | 4/16/08 | 7.29 | 25.8 | 399 | 44.1 |
| | | 7/7/08 | 7.14 | 26.1 | 466 | 45.2 |
| | | 10/9/08 | 7.25 | 26.6 | 414 | 39 |
| | | 2/4/09 | 7.50 | 26.4 | 338 | 42.3 |
| | | 4/22/09 | 7.05 | 27.8 | 380 | 40.6 |
| | | 7/29/09 | 7.17 | 24.6 | 606 | 44.3 |
| | | 11/4/09 | 7.45 | 25.1 | 415 | 45.1 |
| | | 1/27/10 | 7.54 | 24.5 | 411 | 47.0 |
| | | 4/1/10 | 7.49 | 24.6 | 420 | 48.5 |
| | | 7/28/10 | 7.20 | 28.1 | 348 | 39.4 |
| | | 10/14/10 | 7.29 | 26.4 | 411 | 38.4 |
| | | 1/20/11 | 7.04 | 23.0 | 408 | 40.0 |
| | | 4/28/11 | 7.30 | 27.5 | 421 | 42.9 |
| | | 7/20/11 | 6.88 | 27.1 | 429 | 39.6 |
| | | 12/7/11 | 7.68 | 25.4 | 416 | 39.31 |
| | | 3/14/12 | 7.61 | 26.0 | 406 | 35.56 |
| | | 6/7/12 | 7.21 | 26.9 | 420 | 37.87 |
| | | 8/29/12 | 7.38 | 27.6 | 409 | 36.15 |
| | | 11/15/12 | 7.27 | 23.9 | 450 | 33.95 |
| | | 1/29/13 | 7.34 | 24.9 | 373 | 38.61 |
| | | 5/16/13 | 7.64 | 26.8 | 398 | 38.80 |
| | | 7/11/13 | 7.79 | 26.4 | 367 | 42.60 |
| | | 7/11/13 DUP | 7.79 | 26.4 | 367 | 42.50 |
| | | 10/16/13 | 6.72 | 26.0 | 388 | 33.0 |
| | | 1/10/14 | 7.31 | 24.2 | 486 | 34.2 |
| | | 1/10/2014 DUP | 7.31 | 24.2 | 486 | 34.2 |
| | | 4/15/14 | 7.95 | 25.2 | 325 | 35.5 |
| | | 7/21/14 | 7.42 | 27.3 | 498 | 31.9 |
| | | 1/12/15 | 7.74 | 25.1 | 325 | 33.7 |
| | | 4/15/15 | 7.56 | 27.2 | 347 | 37.6 |
| | | 7/22/15 | 7.65 | 26.5 | 446 | 41.8 |
| | | 10/21/15 | 7.22 | 25.8 | 345 | 34.5 |
| | | 10/21/15 DUP | 7.22 | 25.8 | 345 | 33.7 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| GV-02-GVDWID | 603429 | 8/6/06 | NM | NM | NM | 48.6 |
| | | 10/4/06 | NM | NM | NM | 95.3 |
| | | 1/9/07 | 7.68 | 23.6 | 626 | 103 |
| | | 4/10/07 | 7.60 | 24.1 | 479 | 106 |
| | | 7/11/07 | 7.50 | 24.0 | 649 | 98 |
| | | 1/7/08 | 7.32 | 23.3 | 611 | 98 |
| | | 4/16/08 | 7.28 | 23.7 | 553 | 97 |
| | | 7/7/08 | 7.12 | 23.8 | 642 | 93.2 |
| | | 10/9/08 | 7.18 | 24.2 | 599 | 93.5 |
| | | 2/4/09 | 7.36 | 23.9 | 489 | 98.8 |
| | | 4/22/09 | 6.67 | 26.5 | 485 | 79.5 |
| | | 7/29/09 | 7.02 | 26.4 | 427 | 91.6 |
| | | 11/4/09 | 7.25 | 24.3 | 547 | 93.2 |
| | | 1/27/10 | 7.47 | 22.0 | 547 | 94.9 |
| | | 1/27/10 DUP | 7.47 | 22.0 | 547 | 94.5 |
| | | 4/1/10 | 7.33 | 22.9 | 555 | 99.5 |
| | | 7/28/10 | 7.23 | 24.6 | 650 | 83 |
| | | 10/14/10 | 7.36 | 24.5 | 629 | 90.7 |
| | | 1/20/11 | 7.37 | 23.1 | 611 | 92.7 |
| | | 4/28/11 | 7.43 | 24.5 | 612 | 87.3 |
| | | 7/20/11 | 7.35 | 24.0 | 624 | 87.2 |
| | | 12/7/11 | 7.53 | 21.8 | 578 | 77.88 |
| | | 3/14/12 | 7.37 | 23.8 | 566 | 77.35 |
| | | 6/7/12 | 7.14 | 24.0 | 559 | 71.78 |
| | | 8/29/12 | 7.49 | 26.3 | 495 | 62.98 |
| | | 8/29/12 DUP | 7.49 | 26.3 | 495 | 63.26 |
| | | 11/15/12 | 7.55 | 23.4 | 543 | 63.97 |
| | | 1/29/13 | 7.35 | 22.7 | 457 | 61.02 |
| | | 1/29/13 DUP | 7.35 | 22.7 | 457 | 61.23 |
| | | 5/16/13 | 7.54 | 24.4 | 482 | 63.14 |
| | | 7/11/13 | 7.72 | 24.4 | 423 | 64.20 |
| | | 10/16/13 | 6.67 | 23.5 | 469 | 53.3 |
| | | 1/10/14 | 7.37 | 22.1 | 553 | 55.3 |
| | | 4/15/14 | 7.92 | 23.5 | 343 | 45.7 |
| | | 7/21/14 | 7.31 | 24.8 | 544 | 42.1 |
| | | 10/14/14 | 7.73 | 23.5 | 449 | 48.5 |
| | | 1/12/15 | 7.56 | 22.7 | 387 | 46.4 |
| | | 4/15/15 | 7.18 | 23.9 | 419 | 58.7 |
| | | 7/22/15 | 7.86 | 24.9 | 484 | 49.8 |
| | | 10/21/15 | 7.70 | 24.0 | 406 | 52.4 |
| GV-SI-GVDWID | 208825 | 10/4/06 | NM | NM | NM | 5.9 |
| | | 1/9/07 | 7.90 | 26.7 | 358 | 5.7 |
| | | 4/10/07 | 7.48 | 26.8 | 367 | 6.6 |
| | | 7/11/07 | 7.59 | 27.1 | 389 | 6.9 |
| | | 1/7/08 | 7.00 | 26.6 | 342 | 8 |
| | | 4/16/08 | 7.27 | 26.4 | 331 | 2 |
| | | 7/7/08 | 7.18 | 27.2 | 382 | <0.5 |
| | | 10/9/08 | 7.44 | 26.7 | 352 | 5.4 |
| | | 2/4/09 | 7.56 | 27.3 | 290 | 6.2 |
| | | 4/22/09 | 6.95 | 28.0 | 330 | 5.6 |
| | | 4/1/10 | 7.55 | 26.1 | 339 | 6.9 |
| | | 4/28/11 | 7.57 | 27.1 | 364 | 6.0 |
| | | 6/20/12 | 7.33 | 28.5 | 367 | 8.46 |
| | | 5/16/13 | 7.55 | 26.6 | 359 | 6.10 |
| | | 4/14/14 | 7.92 | 25.8 | 290 | 5.89 |
| | | 4/15/15 | 7.18 | 27.0 | 321 | 8.35 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| HAVEN GOLF | 515867 | 2/6/07 | 7.28 | 23.0 | 683 | 107 |
| | | 4/16/07 | 7.26 | 23.3 | 655 | 105 |
| | | 7/9/07 | 7.57 | 32.8 | 622 | 80.1 |
| | | 1/7/08 | 7.18 | 21.0 | 610 | 99 |
| | | 4/15/08 | 7.34 | 24.8 | 629 | 106 |
| | | 7/7/08 | 6.93 | 23.9 | 727 | 112 |
| | | 10/7/08 | 7.31 | 27.8 | 588 | 92.3 |
| | | 2/4/09 | 7.33 | 23.7 | 554 | 120 |
| | | 2/4/09 DUP | 7.33 | 23.7 | 554 | 119 |
| | | 4/21/09 | 7.40 | 23.6 | 306 | 109 |
| | | 4/22/10 | 6.85 | 20.8 | 726 | 109 |
| | | 4/21/11 | 7.10 | 20.4 | 588 | 95 |
| | | 5/29/12 | 6.41 | 279.0 | 633 | 88.05 |
| | | 5/7/13 | 7.46 | 23.5 | 537 | 105.13 |
| | | 4/22/14 | 6.99 | 24.5 | 571 | 97.40 |
| | | 5/13/15 | 7.25 | 23.9 | 429 | 112 |
| I-10 | 608525 | 4/16/07 | 7.17 | 28.8 | 878 | 533 |
| | | 7/11/07 | 7.13 | 31.3 | 1013 | 550 |
| | | 1/8/08 | 7.46 | 24.6 | 1164 | 520 |
| | | 4/14/08 | 7.29 | 29.5 | 836 | 490 |
| | | 7/21/08 | 7.19 | 30.9 | 1036 | 480 |
| | | 10/28/08 | 7.18 | 29.7 | 1034 | 526 |
| | | 1/20/09 | 7.13 | 27.6 | 1040 | 544 |
| | | 5/12/09 | 7.15 | 28.0 | 997 | 495 |
| | | 4/30/14 | 7.52 | 27.0 | 1072 | 629 |
| IW-1 | 623129 | 11/15/06 | NM | NM | NM | 490 |
| | | 1/10/07 | 6.97 | 25.1 | 1033 | 520 |
| | | 4/9/07 | 7.24 | 26 | 918 | 480 |
| | | 7/16/07 | 6.86 | 32.7 | 884 | 510 |
| | | 1/16/08 | 7.38 | 28.5 | 959 | 610 |
| | | 5/7/08 | 6.87 | 29.8 | 847 | 610 |
| | | 7/23/08 | 6.57 | 29.5 | 1228 | 670 |
| | | 10/24/08 | 7.01 | 30.9 | 1201 | 700 |
| | | 1/27/09 | 6.61 | 23.6 | 1134 | 660 |
| | | 4/20/09 | 7.01 | 29.0 | 1092 | 670 |
| | | 4/12/10 | 6.79 | 29.6 | 1148 | 940 |
| | | 5/11/11 | 7.02 | 27.1 | 2110 | 1050 |
| | | 5/21/12 | 6.71 | 32.0 | 1689 | 900 |
| | | 4/15/13 | 7.25 | 27.4 | 1676 | 980 |
| | | 4/14/14 | 7.44 | 28.2 | 1120 | 896 |
| | | 4/1/15 | 7.55 | 28.7 | 1302 | 1140 |
| IW-2 | 623130 | 11/15/06 | NM | NM | NM | 100 |
| | | 1/10/07 | 6.91 | 23.8 | 528 | 110 |
| | | 4/3/07 | 7.08 | 25.3 | 492 | 90 |
| | | 7/16/07 | 7.18 | 32.2 | 506 | 90 |
| | | 1/16/08 | 7.76 | 28.1 | 470 | 70 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| IW-2A | 216464 | 4/22/08 | 6.99 | 30.5 | 382 | 80 |
| | | 7/23/08 | 6.88 | 30.3 | 474 | 60 |
| | | 10/24/08 | 7.43 | 30.3 | 473 | 60 |
| | | 1/27/09 | 7.02 | 25 | 420 | 53 |
| | | 4/20/09 | 6.85 | 28.0 | 405 | 54 |
| | | 4/12/10 | 7.04 | NM | 28.9 | 77 |
| | | 5/11/11 | 7.12 | 26.7 | 541 | 87 |
| | | 5/11/11 DUP | 7.12 | 26.7 | 541 | 88 |
| | | 5/21/12 | 6.89 | 31.1 | 638 | 121 |
| | | 4/15/13 | 7.01 | 27.0 | 550 | 123 |
| | | 4/14/14 | 7.64 | 27.7 | 430 | 116 |
| | | 4/1/15 | 7.94 | 27.8 | 536 | 150 |
| IW-3A | 201732 | 11/15/06 | NM | NM | NM | 1590 |
| | | 4/3/07 | 7.29 | 25.1 | 1374 | 1540 |
| | | 7/16/07 | 6.85 | 29.8 | 1184 | 1500 |
| | | 1/16/08 | 7.20 | 27.4 | 1280 | 1490 |
| | | 4/22/08 | 7.03 | 29.3 | 1224 | 1420 |
| | | 7/23/08 | 6.62 | 29.3 | 1789 | 1460 |
| | | 10/27/08 | 6.97 | 28.7 | 1679 | 1450 |
| | | 1/27/09 | 6.82 | 23.1 | 1520 | 1550 |
| | | 1/27/09 DUP | 6.82 | 23.1 | 1520 | 1310 |
| | | 4/20/09 | 6.69 | 27.2 | 1448 | 1400 |
| | | 4/12/10 | 6.55 | 27.5 | 1380 | 1500 |
| | | 5/11/11 | 6.75 | 25.6 | 2260 | 1650 |
| | | 6/20/12 | 6.51 | 275.0 | 3170 | 1700 |
| | | 5/14/13 | 7.01 | 27.7 | 2660 | 1600 |
| | | 4/14/14 | 7.34 | 25.9 | 1757 | 1720 |
| | | 4/1/15 | 7.55 | 26.2 | 1619 | 1820 |
| IW-4 | 623132 | 1/18/07 | 6.81 | 22.4 | 2210 | 1610 |
| | | 1/18/07 | 6.81 | 22.4 | 2210 | 1590 |
| | | 4/11/07 | 6.6 | 28.2 | 1252 | 1600 |
| | | 7/18/07 | 6.61 | 29.1 | 1462 | 1450 |
| | | 1/16/08 | 7.00 | 25.2 | 1326 | 1590 |
| | | 4/22/08 | 6.59 | 28.6 | 1264 | 1540 |
| | | 7/23/08 | 6.70 | 31.0 | 1899 | 1640 |
| | | 10/24/08 | 6.92 | 27.9 | 1924 | 1630 |
| | | 1/27/09 | 6.58 | 23.9 | 1718 | 1460 |
| | | 4/20/09 | 6.79 | 25.6 | 1604 | 1400 |
| | | 4/12/10 | 6.49 | 26.8 | 1483 | 1600 |
| | | 5/11/11 | 6.57 | 25.8 | 3070 | 1700 |
| | | 5/21/12 | 6.57 | 27.5 | 2650 | 1500 |
| | | 4/15/13 | 6.93 | 24.2 | 2750 | 1800 |
| | | 4/14/14 | 7.01 | 24.3 | 1903 | 1690 |
| IW-5 | 623133 | 1/16/07 | 7.34 | 23.1 | 1511 | 1710 |
| | | 7/18/07 | 6.82 | 27.0 | 1716 | 1610 |
| | | 1/16/08 | 7.11 | 24.1 | 1380 | 1690 |
| | | 4/21/08 | 6.64 | 27.5 | 1326 | 1550 |
| | | 7/23/08 | 6.76 | 30.1 | 1370 | 1730 |
| | | 10/27/08 | 6.57 | 26.8 | 1886 | 1720 |
| | | 1/27/09 | 6.44 | 19.5 | 1560 | 1630 |
| | | 4/20/09 | 6.73 | 24.7 | 1635 | 1600 |
| | | 4/12/10 | 6.59 | 25.7 | 1476 | 1800 |
| | | 4/12/10 DUP | 6.59 | 25.7 | 1476 | 1700 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| IW-5A | 219131 | 4/20/11 | 6.78 | 22.2 | 3210 | 1740 |
| | | 5/22/12 | 6.68 | 26.6 | 2880 | 1600 |
| | | 4/15/13 | 6.84 | 24.2 | 2910 | 1760 |
| | | 4/15/13 DUP | 6.84 | 24.2 | 2910 | 1740 |
| | | 4/14/14 | 6.96 | 24.5 | 3120 | 1750 |
| IW-6A | 545565 | 11/15/06 | NM | NM | NM | 1760 |
| | | 1/16/07 | 7.25 | 22.5 | 1562 | 1800 |
| | | 4/9/07 | 6.69 | 26 | 1627 | 1830 |
| | | 7/25/07 | 6.67 | 24.5 | 1609 | 1930 |
| | | 1/16/08 | 7.21 | 23.1 | 1489 | 1910 |
| | | 1/16/08 DUP | 7.21 | 23.1 | 1489 | 1800 |
| | | 4/21/08 | 7.30 | 25.4 | 1309 | 1920 |
| | | 7/17/08 | 6.84 | 27.1 | 1510 | 1850 |
| | | 10/24/08 | 6.61 | 25.5 | 1999 | 1930 |
| | | 1/26/09 | 6.58 | 21.9 | 1959 | 1600 |
| | | 4/20/09 | 6.78 | 25.6 | 1710 | 1700 |
| | | 4/12/10 | 6.99 | 34.2 | 1437 | 1800 |
| | | 5/11/11 | 6.82 | 23.4 | 3390 | 1900 |
| | | 5/22/12 | 6.61 | 27.3 | 2950 | 1800 |
| | | 4/15/13 | 6.86 | 23.9 | 3030 | 1840 |
| | | 4/14/14 | 6.99 | 23.4 | 3270 | 1890 |
| IW-8 | 508236 | 4/3/07 | 7.11 | 24.1 | 1523 | 1760 |
| | | 7/18/07 | 6.82 | 29.5 | 1328 | 1870 |
| | | 1/16/08 | 7.30 | 24.3 | 1386 | 1900 |
| | | 4/22/08 | 6.86 | 27.5 | 1301 | 1700 |
| | | 7/23/08 | 6.78 | 27.5 | 1440 | 1870 |
| | | 10/24/08 | 6.85 | 27.4 | 1976 | 1890 |
| | | 1/27/09 | 6.38 | 20.4 | 1816 | 1630 |
| | | 4/20/09 | 6.75 | 25.4 | 1620 | 1700 |
| | | 4/12/10 | 6.52 | 25.6 | 1547 | 1900 |
| | | 5/11/11 | 6.67 | 23.9 | 1965 | 1900 |
| | | 5/21/12 | 6.62 | 28.7 | 2670 | 1700 |
| | | 5/14/13 | 6.96 | 26.9 | 2800 | 1700 |
| | | 4/1/15 | 7.47 | 24.8 | 1687 | 1800 |
| IW-9 | 508238 | 11/15/06 | NM | NM | NM | 1760 |
| | | 1/18/07 | 7.40 | 22.6 | 1690 | 1670 |
| | | 4/11/07 | 6.73 | 25.1 | 1424 | 1750 |
| | | 7/18/07 | 6.78 | 29.4 | 1547 | 1810 |
| | | 1/16/08 | 7.01 | 26.1 | 1359 | 1700 |
| | | 4/22/08 | 6.86 | 28.5 | 1328 | 1670 |
| | | 7/23/08 | 6.88 | 28.8 | 1420 | 1730 |
| | | 10/24/08 | 6.88 | 28.6 | 1981 | 1720 |
| | | 10/24/08 DUP | 6.88 | 28.6 | 1981 | 1720 |
| | | 1/27/09 | 6.69 | 21.7 | 1774 | 1500 |
| | | 4/20/09 | 6.79 | 26.9 | 1585 | 1600 |
| | | 4/12/10 | 6.95 | 29.2 | 1579 | 1800 |
| | | 4/12/10 DUP | 6.95 | 29.2 | 1579 | 1800 |
| | | 5/26/11 | 6.95 | 26.2 | 3850 | 1810 |
| | | 5/21/12 | 6.58 | 29.2 | 2680 | 1700 |
| | | 4/15/13 | 6.90 | 25.6 | 2880 | 1730 |
| | | 4/14/14 | 7.20 | 25.3 | 1882 | 1780 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| IW-10 | 508237 | 11/15/06 | NM | NM | NM | 1650 |
| | | 1/16/07 | 7.38 | 23.7 | 1303 | 1670 |
| | | 4/3/07 | 7.11 | 26.7 | 1520 | 1750 |
| | | 7/18/07 | 6.78 | 28.3 | 1734 | 1770 |
| | | 1/16/08 | 7.91 | 24.0 | 537 | 1800 |
| | | 4/21/08 | 6.68 | 27.2 | 1338 | 1470 |
| | | 7/23/08 | 6.90 | 28.4 | 1460 | 1740 |
| | | 10/24/08 | 6.77 | 27.0 | 1969 | 1730 |
| | | 1/27/09 | 6.64 | 20.7 | 1560 | 1490 |
| | | 4/20/09 | 6.80 | 24.8 | 1607 | 1600 |
| | | 4/12/10 | 6.61 | 26.5 | 1431 | 1700 |
| | | 5/11/11 | 6.67 | 24.3 | 3310 | 1800 |
| | | 5/22/12 | 6.78 | 26.9 | 2890 | 1700 |
| | | 4/15/13 | 6.85 | 23.6 | 2980 | 1740 |
| | | 4/14/14 | 6.94 | 23.4 | 3320 | 1820 |
| | | 4/1/15 | 7.33 | 23.1 | 1894 | 1870 |
| IW-11 | 508235 | 11/21/06 | NM | NM | NM | 1600 |
| | | 1/16/07 | 7.10 | 21.7 | 1516 | 1700 |
| | | 4/9/07 | 6.76 | 26.2 | 1342 | 1760 |
| | | 7/18/07 | 6.84 | 26.8 | 1788 | 1770 |
| | | 1/16/08 | 7.15 | 22.3 | 1370 | 1800 |
| | | 4/21/08 | 6.53 | 26 | 1303 | 1770 |
| | | 4/21/08 DUP | 6.53 | 26 | 1303 | 1850 |
| | | 7/29/08 | 6.58 | 24.4 | 1830 | 1720 |
| | | 10/24/08 | 6.89 | 26.3 | 1958 | 2260 |
| | | 1/27/09 | 6.56 | 19.1 | 1540 | 1600 |
| | | 4/20/09 | 6.64 | 25.1 | 1632 | 1600 |
| | | 4/12/10 | 6.63 | 24.6 | 1492 | 1700 |
| | | 5/11/11 | 6.51 | 25.0 | 3250 | 1700 |
| | | 5/22/12 | 6.76 | 25.5 | 2810 | 1600 |
| | | 4/15/13 | 6.82 | 23.7 | 2890 | 1730 |
| | | 4/14/14 | 7.00 | 22.3 | 3210 | 1710 |
| | | 4/1/15 | 7.31 | 23.2 | 1915 | 1790 |
| IW-12 | 545555 | 1/16/07 | 6.93 | 22.3 | 1444 | 1620 |
| | | 4/17/07 | 6.56 | 25.9 | 1345 | 1630 |
| | | 7/25/07 | 6.55 | 25.2 | 1483 | 1700 |
| | | 1/16/08 | 6.87 | 23.4 | 1428 | 1700 |
| | | 1/16/08 DUP | 6.87 | 23.4 | 1428 | 1700 |
| | | 4/11/08 | 6.51 | 27.4 | 1426 | 1580 |
| | | 7/17/08 | 6.76 | 28.4 | 1917 | 1630 |
| | | 10/24/08 | 6.81 | 26.5 | 1879 | 1520 |
| | | 1/26/09 | 6.70 | 23.7 | 1792 | 1440 |
| | | 4/20/09 | 6.63 | 26.5 | 1576 | 1500 |
| | | 4/12/10 | 6.70 | 22.8 | 1579 | 1500 |
| | | 5/11/11 | 6.74 | 25.8 | 3120 | 1700 |
| | | 5/22/12 | 6.66 | 27.7 | 2640 | 1600 |
| | | 5/14/13 | 6.92 | 27.2 | 2540 | 1500 |
| | | 4/14/14 | 7.02 | 24.4 | 2980 | 1430 |
| | | 4/1/15 | 7.39 | 24.2 | 1851 | 1600 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| IW-13 | 545556 | 4/17/07 | 6.81 | 25.8 | 1430 | 1690 |
| | | 7/25/07 | 6.61 | 25.1 | 1560 | 1940 |
| | | 7/25/07 | 6.61 | 25.1 | 1560 | 1780 |
| | | 1/16/08 | 6.64 | 24.0 | 1599 | 1800 |
| | | 4/11/08 | 6.61 | 26.8 | 1502 | 1800 |
| | | 7/17/08 | 6.6 | 30 | 1898 | 1850 |
| | | 10/24/08 | 6.70 | 26.1 | 1999 | 1930 |
| | | 1/26/09 | 6.49 | 23.6 | 1951 | 1600 |
| | | 4/20/09 | 6.73 | 27.2 | 1697 | 1700 |
| | | 4/12/10 | 6.64 | 24.1 | 1669 | 1900 |
| | | 5/11/11 | 6.70 | 25.3 | 3360 | 1900 |
| | | 6/20/12 | 6.67 | 25.9 | 3450 | 1900 |
| | | 4/15/13 | 6.73 | 24.9 | 3030 | 1760 |
| | | 4/14/14 | 6.99 | 23.6 | 3440 | 1900 |
| | | 4/14/14 DUP | 6.99 | 23.6 | 3440 | 1730 |
| | | 4/1/15 | 7.25 | 24.3 | 2910 | 1860 |
| | | 4/1/15 DUP | 7.25 | 24.3 | 2910 | 1930 |
| IW-14 | 545557 | 11/15/06 | NM | NM | NM | 1820 |
| | | 1/16/07 | 6.72 | 22.4 | 1484 | 1790 |
| | | 1/16/07 | 6.72 | 22.4 | 1484 | 1810 |
| | | 4/16/07 | 6.63 | 24.4 | 1383 | 1790 |
| | | 7/25/07 | 6.51 | 24.7 | 1462 | 1910 |
| | | 1/16/08 | 7.03 | 23.2 | 1646 | 1800 |
| | | 4/11/08 | 6.49 | 26.8 | 1460 | 1810 |
| | | 7/16/08 | 6.59 | 29.9 | 1901 | 1870 |
| | | 10/24/08 | 6.51 | 26.4 | 1929 | 1840 |
| | | 1/26/09 | 6.52 | 23 | 1869 | 1600 |
| | | 4/20/09 | 6.66 | 27.1 | 1612 | 1700 |
| | | 4/21/10 | 6.89 | 24.8 | 1428 | 1900 |
| | | 5/11/11 | 7.54 | 25.7 | 3460 | 1900 |
| | | 5/22/12 | 6.48 | 31.8 | 2620 | 1800 |
| | | 4/15/13 | 6.91 | 24.4 | 3020 | 1870 |
| | | 4/14/14 | 7.01 | 23.1 | 3490 | 1730 |
| | | 4/1/15 | 7.24 | 23.7 | 1947 | 1930 |
| IW-15 | 545558 | 11/15/06 | NM | NM | NM | 1710 |
| | | 1/16/07 | 7.04 | 23.9 | 1420 | 1730 |
| | | 4/16/07 | 6.82 | 27.4 | 1314 | 1740 |
| | | 7/25/07 | 6.32 | 26.6 | 1388 | 1760 |
| | | 1/16/08 | 7.07 | 22.3 | 1561 | 1740 |
| | | 4/11/08 | 6.42 | 28.3 | 1395 | 1670 |
| | | 7/15/08 | 6.75 | 31.3 | 1790 | 1730 |
| | | 10/24/08 | 6.6 | 26.0 | 1892 | 1850 |
| | | 1/27/09 | 6.86 | 21.8 | 1935 | 1630 |
| | | 4/20/09 | 7.71 | 28.5 | 1302 | 1600 |
| | | 4/20/09 DUP | 7.71 | 28.5 | 1302 | 1700 |
| | | 4/12/10 | 6.69 | 25.0 | 1669 | 1700 |
| | | 5/11/11 | 7.54 | 26.2 | 3270 | 1800 |
| | | 5/11/11 DUP | 7.54 | 26.2 | 3270 | 1800 |
| | | 5/22/12 | 6.74 | 29.4 | 2850 | 1800 |
| | | 5/14/13 | 7.03 | 27.1 | 2770 | 1700 |
| | | 4/14/14 | 6.98 | 23.9 | 3240 | 1800 |
| | | 4/1/15 | 6.89 | 24.7 | 1927 | 1860 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| IW-16 | 545559 | 11/15/06 | NM | NM | NM | 1730 |
| | | 1/16/07 | 7.18 | 23.8 | 1415 | 1730 |
| | | 4/17/07 | 6.86 | 26.8 | 1320 | 1770 |
| | | 4/17/07 | 6.86 | 26.8 | 1320 | 1790 |
| | | 7/25/07 | 6.63 | 26.5 | 1368 | 1800 |
| | | 1/16/08 | 7.07 | 23.3 | 1561 | 1740 |
| | | 4/11/08 | 6.64 | 26.4 | 1404 | 1770 |
| | | 7/15/08 | 6.52 | 31.2 | 1778 | 1840 |
| | | 10/24/08 | 6.35 | 25.7 | 1879 | 1850 |
| | | 1/26/09 | 6.44 | 23.9 | 1773 | 1620 |
| | | 4/20/09 | 6.69 | 27.1 | 1347 | 1700 |
| | | 4/12/10 | 6.79 | 25.6 | 1652 | 1800 |
| IW-17 | 545560 | 11/15/06 | NM | NM | NM | 1570 |
| | | 1/16/07 | 6.79 | 21.8 | 1402 | 1600 |
| | | 4/16/07 | 6.90 | 26.3 | 1303 | 1670 |
| | | 7/25/07 | 6.61 | 27.2 | 1348 | 1730 |
| | | 1/16/08 | 6.74 | 16.5 | 1485 | 1720 |
| | | 4/11/08 | 6.49 | 28.5 | 1398 | 1730 |
| | | 7/15/08 | 6.63 | 31.7 | 1853 | 1770 |
| | | 10/24/08 | 6.70 | 27.0 | 1864 | 1720 |
| | | 1/26/09 | 6.41 | 24.1 | 1828 | 1480 |
| | | 4/20/09 | 6.77 | 30.1 | 1332 | 1600 |
| | | 4/12/10 | 6.63 | 26.5 | 1604 | 1700 |
| IW-18 | 545561 | 11/21/06 | NM | NM | NM | 1610 |
| | | 1/18/07 | 7.26 | 15.4 | 1460 | 1660 |
| | | 4/16/07 | 6.80 | 24.9 | 1161 | 1610 |
| | | 7/25/07 | 6.45 | 28.1 | 1293 | 1760 |
| | | 1/14/08 | 6.39 | 21.9 | 1899 | 1700 |
| | | 4/11/08 | 6.61 | 27.5 | 1388 | 1540 |
| | | 7/15/08 | 6.71 | 30.2 | 1847 | 1710 |
| | | 10/24/08 | 6.34 | 27.1 | 1883 | 1680 |
| | | 1/26/09 | 6.39 | 24.7 | 1779 | 1460 |
| | | 4/20/09 | 6.77 | 29.9 | 1337 | 1700 |
| | | 4/29/10 | 6.63 | 23.7 | 1455 | 1600 |
| IW-19 | 545562 | 11/21/06 | NM | NM | NM | 1570 |
| | | 1/11/07 | 7.19 | 25.1 | 1802 | 1630 |
| | | 4/16/07 | 6.69 | 26.7 | 1296 | 1630 |
| | | 7/25/07 | 6.91 | 26.3 | 1310 | 1650 |
| | | 1/10/08 | 6.39 | 22.4 | 1881 | 1800 |
| | | 1/10/08 DUP | 6.39 | 22.4 | 1881 | 1800 |
| | | 4/11/08 | 6.62 | 26.3 | 1409 | 1680 |
| | | 7/15/08 | 6.78 | 29.4 | 1807 | 1670 |
| | | 10/24/08 | 6.6 | 28.7 | 1685 | 1710 |
| | | 1/26/09 | 6.47 | 24.3 | 1852 | 1370 |
| | | 4/20/09 | 6.82 | 27.9 | 1366 | 1600 |
| | | 4/12/10 | 6.62 | 26.4 | 1570 | 1600 |
| | | 5/11/11 | 6.68 | 26.6 | 3200 | 1700 |
| | | 5/22/12 | 6.56 | 30.7 | 2730 | 1300 |
| | | 5/14/13 | 6.85 | 28.7 | 2690 | 1600 |
| | | 4/14/14 | 7.01 | 24.5 | 3170 | 1780 |
| | | 4/1/15 | 7.43 | 23.6 | 1945 | 1910 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| IW-20 | 545563 | 11/21/06 | NM | NM | NM | 1550 |
| | | 1/11/07 | 7.23 | 26.4 | 2360 | 1630 |
| | | 4/9/07 | 7.07 | 27.2 | 1260 | 1500 |
| | | 7/24/07 | 6.69 | 30.8 | 1822 | 1580 |
| | | 1/9/08 | 6.72 | 26.4 | 1710 | 1700 |
| | | 4/11/08 | 6.74 | 27.3 | 1400 | 1560 |
| | | 7/15/08 | 6.6 | 29.4 | 1650 | 1640 |
| | | 10/24/08 | 6.81 | 28.6 | 1779 | 1600 |
| | | 1/26/09 | 6.48 | 24.1 | 1837 | 1450 |
| | | 4/20/09 | 6.76 | 30.0 | 1375 | 1500 |
| | | 4/29/10 | 6.62 | 24.2 | 1417 | 1600 |
| | | 5/11/11 | 7.07 | 26.3 | 3080 | 1600 |
| | | 6/20/12 | 6.67 | 28.2 | 3080 | 1600 |
| | | 6/17/13 | 7.21 | 31.1 | 1785 | 1900 |
| | | 6/17/13 DUP | 7.21 | 31.1 | 1785 | 1800 |
| | | 4/14/14 | 7.04 | 26.2 | 3220 | 1690 |
| | | 4/1/15 | 7.07 | 26.2 | 1977 | 1700 |
| IW-21 | 545564 | 11/21/06 | NM | NM | NM | 1580 |
| | | 1/11/07 | 7.15 | 27.8 | 1848 | 1620 |
| | | 4/17/07 | 6.85 | 29.4 | 1424 | 1650 |
| | | 7/24/07 | 6.68 | 30.6 | 1828 | 1630 |
| | | 1/9/08 | 6.33 | 25.4 | 1975 | 1800 |
| | | 4/11/08 | 6.85 | 24.6 | 1375 | 1610 |
| | | 4/11/08 DUP | 6.85 | 24.6 | 1375 | 1610 |
| | | 7/29/08 | 6.49 | 29 | 1780 | 1670 |
| | | 10/24/08 | 6.91 | 29.7 | 1833 | 1640 |
| | | 1/26/09 | 6.59 | 25.7 | 1410 | 1390 |
| | | 4/20/09 | 6.83 | 30.7 | 1422 | 1600 |
| | | 4/12/10 | 6.72 | 28.1 | 1621 | 1700 |
| | | 5/11/11 | 6.77 | 29.6 | 3140 | 1700 |
| | | 6/20/12 | 6.65 | 29.2 | 3130 | 1700 |
| | | 4/15/13 | 6.94 | 28.8 | 2840 | 1690 |
| | | 4/14/14 | 7.18 | 28.2 | 3170 | 1720 |
| IW-22 | 200554 | 11/21/06 | NM | NM | NM | 1710 |
| | | 1/23/07 | 6.90 | 22.1 | 1253 | 1660 |
| | | 4/9/07 | 7.09 | 26 | 1325 | 1740 |
| | | 7/18/07 | 6.99 | 28.1 | 1683 | 1790 |
| | | 1/16/08 | 7.19 | 23.1 | 1378 | 1700 |
| | | 4/21/08 | 6.53 | 28.7 | 1362 | 1760 |
| | | 4/21/08 DUP | 6.53 | 28.7 | 1362 | 1410 |
| | | 7/23/08 | 6.86 | 28.9 | 1370 | 1760 |
| | | 10/24/08 | 6.89 | 26.4 | 1929 | 1720 |
| | | 1/27/09 | 6.58 | 19.9 | 1570 | 1610 |
| | | 4/20/09 | 6.77 | 25.5 | 1635 | 1700 |
| | | 4/12/10 | 6.59 | 25.4 | 1472 | 1800 |
| | | 5/11/11 | 6.75 | 24.5 | 3290 | 1800 |
| | | 5/22/12 | 6.72 | 26.6 | 2870 | 1600 |
| | | 4/15/13 | 7.19 | 22.5 | 2990 | 1810 |
| | | 4/14/14 | 7.05 | 22.5 | 3240 | 1620 |
| | | 4/1/15 | 7.36 | 23.7 | 1874 | 1770 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| IW-23 | 200555 | 11/21/06 | NM | NM | NM | 1540 |
| | | 1/23/07 | 6.6 | 22.8 | 1249 | 1640 |
| | | 4/11/07 | 6.88 | 26.7 | 1528 | 1670 |
| | | 7/25/07 | 6.49 | 24.7 | 1541 | 1670 |
| | | 1/16/08 | 7.17 | 24.3 | 1303 | 1680 |
| | | 4/21/08 | 6.71 | 28.6 | 1314 | 1710 |
| | | 7/23/08 | 6.84 | 27.5 | 1420 | 1730 |
| | | 10/24/08 | 6.81 | 27.9 | 1966 | 1780 |
| | | 1/27/09 | 6.52 | 19.9 | 1963 | 1650 |
| | | 4/20/09 | 6.82 | 25.4 | 1607 | 1700 |
| | | 4/12/10 | 6.81 | 26.6 | 1491 | 1700 |
| | | 5/11/11 | 6.83 | 24.6 | 3280 | 1800 |
| | | 5/22/12 | 6.72 | 28.9 | 2700 | 1600 |
| | | 4/15/13 | 6.79 | 24.0 | 2930 | 1800 |
| | | 4/14/14 | 6.95 | 23.9 | 3180 | 1800 |
| | | 4/1/15 | 7.35 | 23.7 | 1838 | 1890 |
| IW-24 | 200556 | 7/18/07 | 6.78 | 29.0 | 1739 | 1790 |
| | | 1/16/08 | 7.06 | 24.2 | 1387 | 1700 |
| | | 4/22/08 | 6.68 | 28.7 | 1141 | 1650 |
| | | 4/22/08 DUP | 6.68 | 28.7 | 1141 | 1750 |
| | | 7/23/08 | 6.68 | 30.7 | 1420 | 1730 |
| | | 10/24/08 | 6.71 | 28.1 | 1058 | 1640 |
| | | 1/27/09 | 6.43 | 21.3 | 1510 | 1560 |
| | | 4/20/09 | 6.79 | 25.6 | 1604 | 1600 |
| | | 4/20/09 DUP | 6.79 | 25.6 | 1604 | 1500 |
| | | 4/12/10 | 6.70 | 27.1 | 1450 | 1600 |
| | | 5/11/11 | 6.76 | 24.6 | 3260 | 1700 |
| | | 5/22/12 | 6.47 | 27.3 | 2800 | 1700 |
| | | 4/15/13 | 6.83 | 24.4 | 2800 | 1900 |
| | | 4/14/14 | 7.06 | 25.0 | 1958 | 1710 |
| | | 4/14/14 DUP | 7.06 | 25.0 | 1958 | 1760 |
| | | 4/1/15 | 7.50 | 24.1 | 1732 | 1760 |
| IW-25 | 219596 | 4/15/13 | 7.01 | 27.6 | 932 | 390 |
| | | 4/14/14 | 7.56 | 27.9 | 688 | 348 |
| IW-26 | 219143 | 4/15/13 | 7.00 | 25.6 | 2620 | 1700 |
| | | 4/1/15 | 7.53 | 27.3 | 1683 | 1630 |
| IW-27 | 219136 | 4/14/14 | 7.16 | 22.4 | 3210 | 1760 |
| | | 4/1/15 | 7.41 | 25.6 | 1683 | 1670 |
| | | 4/1/15 DUP | 7.41 | 25.6 | 1683 | 1710 |
| IW-28 | 219137 | 4/15/13 | 7.03 | 24.2 | 2930 | 1720 |
| | | 4/14/14 | 7.08 | 25.0 | 3230 | 1740 |
| | | 4/1/15 | 7.48 | 25.8 | 1807 | 1730 |
| IW-29 | 222865 | 5/12/14 | NM | NM | NM | 1680 |
| | | 4/1/15 | 7.28 | 26.5 | 1758 | 1750 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| M-8 | 087390 | 12/6/06 | 7.50 | 25.5 | 380 | NA |
| | | 12/6/06 | 7.60 | NM | 380 | NA |
| | | 4/16/07 | 7.87 | 23.1 | 424 | <0.5 |
| | | 7/11/07 | 7.67 | 28.2 | 415 | 16.5 |
| | | 1/9/08 | 7.68 | 23.7 | 458 | 50 |
| | | 4/15/08 | 6.85 | 28 | 362 | 28.7 |
| | | 7/25/08 | 7.62 | 27 | 398 | 24.5 |
| | | 10/28/08 | 7.67 | 27.8 | 406 | 26.3 |
| | | 10/28/08 DUP | 7.67 | 27.8 | 406 | 26.2 |
| | | 1/20/09 | 7.49 | 25.2 | 397 | 36.8 |
| | | 5/12/09 | 7.62 | 26.8 | 387 | 29.6 |
| | | 11/5/09 | 7.61 | 26.6 | 382 | 31.4 |
| | | 5/28/10 | 7.63 | 26.9 | 448 | 45.1 |
| | | 10/21/10 | 7.64 | 25.5 | 435 | 46.9 |
| | | 6/15/11 | 7.57 | 26.1 | 501 | 59.3 |
| | | 11/17/11 | 7.88 | 23.6 | 522 | 84.577 |
| | | 6/29/12 | 7.73 | 27.9 | 417 | 24 |
| | | 10/29/12 | 7.62 | 25.7 | 419 | 16.45 |
| | | 4/17/13 | 7.74 | 27.1 | 567 | 140.61 |
| | | 5/21/13 | 7.78 | 27.0 | 374 | 28.85 |
| | | 10/29/13 | 7.61 | 25.6 | 258 | 18.3 |
| | | 4/22/14 | 7.85 | 23.4 | 351 | 20.2 |
| | | 11/4/14 | 7.85 | 25.4 | 445 | 19.6 |
| | | 4/6/15 | 7.96 | 27.7 | 293 | 20.6 |
| M-9 | 501652 | 1/17/07 | 7.50[2] | 26.0 | 460 | NA |
| | | 7/11/07 | 7.72 | 27.0 | 334 | NA |
| | | 1/8/08 | 6.51 | 25.7 | 533 | 80 |
| | | 1/8/08 | 7.67 | 26.7 | 480.7 | 65 |
| | | 4/14/08 | 7.74 | 27.8 | 422 | 67.2 |
| | | 7/21/08 | 7.52 | 29.5 | 485 | 68.7 |
| | | 10/28/08 | 7.66 | 30.3 | 503 | 74.8 |
| | | 1/20/09 | 7.64 | 24.1 | 470 | 81.6 |
| | | 5/13/09 | 7.54 | 27.3 | 487 | 80.2 |
| | | 7/14/09 | 7.60 | 27.0 | 420 | 81.7 |
| | | 6/16/10 | 7.63 | 26.6 | 511 | 77 |
| | | 6/2/11 | 7.59 | 27.1 | 525 | 75 |
| | | 6/27/12 | 7.26 | 27.4 | 581 | 81 |
| | | 5/1/13 | 7.81 | 26.5 | 461 | 66.05 |
| | | 4/22/14 | 7.82 | 26.2 | 550 | 106.00 |
| | | 1/20/15 | 7.92 | 25.8 | 490 | 74.00 |
| | | 4/6/15 | 7.83 | 25.3 | 346 | 57.8 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| M-10 | 501653 | 7/19/06 | NM | NM | NM | 66 |
| | | 1/16/07 | 7.90 | 29.0 | 440 | NA |
| | | 4/16/07 | 7.97 | 28.2 | 475 | 72.6 |
| | | 7/12/07 | 8.05 | 27.0 | 322 | NA |
| | | 1/8/08 | 7.91 | 24.8 | 537 | 73 |
| | | 4/15/08 | 7.99 | 27.6 | 428 | 81 |
| | | 7/21/08 | 7.69 | 31 | 489 | 89.8 |
| | | 10/28/08 | 8.08 | 28.1 | 521 | 97.1 |
| | | 1/20/09 | 7.91 | 29 | 467 | 95 |
| | | 5/12/09 | 7.77 | 26.9 | 487 | 97 |
| | | 7/14/09 | 7.20 | 25.0 | 420 | 96 |
| | | 11/5/09 | 7.13 | 30.5 | 479 | 110 |
| | | 11/5/09 DUP | 7.13 | 30.5 | 479 | 107 |
| | | 5/28/10 | 7.83 | 30.1 | 497 | 121 |
| | | 10/21/10 | 7.76 | 27.1 | 585 | 139 |
| | | 5/10/11 | 7.86 | 28.9 | 641 | 149 |
| | | 11/16/11 | 8.04 | 27.6 | 612 | 162 |
| | | 6/25/12 | 7.61 | 29.8 | 162 | 162 |
| | | 10/29/12 | 7.88 | 27.0 | 645 | 158 |
| | | 4/17/13 | 7.90 | 28.9 | 618 | 170.32 |
| | | 10/29/13 | 7.94 | 27.3 | 431 | 164 |
| | | 4/22/14 | 8.16 | 25.4 | 585 | 165 |
| | | 11/4/14 | 8.34 | 25.2 | 472 | 114 |
| | | 1/19/15 | 8.48 | 25.9 | 611 | 151 |
| | | 1/19/15 DUP | 8.48 | 25.9 | 611 | 157 |
| | | 4/6/15 | 8.14 | 28.6 | 560 | 166 |
| M-20 | 906595 | 3/22/07 | 7.10 | 27.0 | 3500 | NA |
| | | 7/12/07 | 7.44 | 27.0 | 1970 | NA |
| | | 1/9/08 | 7.15 | 25.6 | 1853 | 1750 |
| | | 1/9/08 | 7.29 | 26.3 | 2878 | 1500 |
| | | 4/14/08 | 7.18 | 27 | 1277 | 1550 |
| | | 7/25/08 | 6.99 | 27.6 | 1857 | 1550 |
| | | 10/28/08 | 7.03 | 28.2 | 1688 | 1660 |
| | | 1/20/09 | 6.95 | 27.1 | 1506 | 1760 |
| | | 5/12/09 | 6.88 | 28.0 | 1501 | 1580 |
| | | 5/28/10 | 7.22 | 28.2 | 3050 | 1620 |
| | | 5/9/11 | 7.29 | 27.8 | 2790 | 1710 |
| | | 6/26/12 | 7.15 | 28.3 | 3050 | 1722.9 |
| | | 4/23/13 | 7.50 | 26.6 | 2720 | 1801.6 |
| | | 4/22/14 | 9.25 | 26.2 | 2590 | 1460 |
| | | 4/22/14 DUP | 9.25 | 26.2 | 2590 | 1440 |
| | | 4/27/15 | 7.58 | 27.9 | 2770 | 1720 |
| MC-1 | 221660 | 2/4/14 | 7.57 | 25.4 | 3080 | 1620 |
| | | 4/15/14 | 7.55 | 27.2 | 1797 | 1680 |
| | | 7/9/14 | 6.97 | 28.2 | 2850 | 1750 |
| | | 11/11/14 | 7.10 | 26.9 | 2970 | 1750 |
| | | 1/12/15 | 7.46 | 26.1 | 2960 | 1660 |
| | | 4/2/15 | 7.45 | 26.9 | 1513 | 1710 |
| | | 7/15/15 | 6.51 | 29.1 | 2890 | 1810 |
| | | 11/3/15 | 7.53 | 25.8 | 1587 | 1670 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MC-2 | 221761 | 2/4/14 | 7.61 | 25.4 | 2630 | 1330 |
| | | 4/15/14 | 7.45 | 27.3 | 1546 | 1320 |
| | | 7/9/14 | 6.93 | 28.6 | 2410 | 1360 |
| | | 11/11/14 | 7.13 | 27.5 | 1922 | 1260 |
| | | 1/12/15 | 7.59 | 26.8 | 1697 | 1200 |
| | | 4/2/15 | 7.49 | 26.5 | 1368 | 1200 |
| | | 7/15/15 | 7.59 | 29.4 | 2220 | 1290 |
| | | 11/3/15 | 7.53 | 26.5 | 1497 | 1110 |
| | | 11/3/15 DUP | 7.53 | 26.5 | 1497 | 1120 |
| MC-3 | 221661 | 2/4/14 | 7.46 | 24.6 | 2690 | 1380 |
| | | 4/15/14 | 7.68 | 27.9 | 1555 | 1350 |
| | | 7/9/14 | 6.91 | 28.7 | 2480 | 1510 |
| | | 11/11/14 | 7.14 | 27.2 | 2610 | 1440 |
| | | 1/12/15 | 7.61 | 26.8 | 1794 | 1350 |
| | | 4/2/15 | 7.52 | 26.7 | 1338 | 1390 |
| | | 7/15/15 | 7.44 | 29.8 | 2400 | 1410 |
| | | 11/4/15 | 7.48 | 25.0 | 1507 | 1370 |
| MC-4 | 220842 | 2/4/14 | 7.11 | 25.9 | 2440 | 1210 |
| | | 4/15/14 | 7.64 | 29.2 | 1437 | 1160 |
| | | 7/9/14 | 6.76 | 29.2 | 2320 | 1300 |
| | | 7/9/14 DUP | 6.76 | 29.2 | 2320 | 1310 |
| | | 11/11/14 | 7.06 | 27.9 | 1926 | 1280 |
| | | 1/12/15 | 7.58 | 27.9 | 1665 | 1220 |
| | | 4/2/15 | 7.45 | 27.6 | 1310 | 1230 |
| | | 7/15/15 | 7.49 | 31.0 | 2280 | 1220 |
| | | 11/4/15 | 7.48 | 26.3 | 1490 | 1240 |
| MH-10 | 803636 | 11/8/06 | NM | NM | NM | 1330 |
| | | 1/9/07 | 6.70 | 28.5 | 1717 | 1310 |
| | | 4/3/07 | 6.86 | 30.2 | 1267 | 1360 |
| | | 7/16/07 | 6.87 | 31.4 | 1138 | 1410 |
| | | 1/3/08 | 6.41 | 24.8 | 1626 | 1430 |
| | | 4/28/08 | 6.60 | 31 | 973 | 1460 |
| | | 7/31/08 | 7.07 | 32.5 | 1827 | 1550 |
| | | 11/4/08 | 7.02 | 26.0 | 1856 | 1450 |
| | | 1/2/09 | 6.54 | 26.1 | 1798 | 1400 |
| | | 4/14/09 | 6.62 | 28.1 | 1260 | 1260 |
| | | 4/26/10 | 7.05 | 29.9 | 1365 | 1500 |
| | | 4/26/10 DUP | 7.05 | 29.9 | 1365 | 1400 |
| | | 5/18/11 | 7.03 | 27.4 | 2900 | 1600 |
| | | 6/5/12 | 6.88 | 29.3 | 2910 | 1500 |
| | | 6/10/13 | 7.17 | 30.2 | 1791 | 1720 |
| | | 4/23/14 | 7.05 | 26.8 | 2910 | 1540 |
| | | 4/14/15 | 7.10 | 28.5 | 1389 | 1560 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MH-11 | 803637 | 1/11/07 | 7.33 | 25.0 | 1778 | 1590 |
| | | 4/10/07 | 7.02 | 28.3 | 1327 | 1580 |
| | | 7/17/07 | 6.87 | 28.8 | 1848 | 1650 |
| | | 1/4/08 | 6.44 | 26.3 | 1690 | 1560 |
| | | 4/29/08 | 6.48 | 30.2 | 959 | 1700 |
| | | 7/29/08 | 6.97 | 32.2 | 1767 | 1550 |
| | | 11/7/08 | 7.01 | 27.1 | 1350 | 1560 |
| | | 1/16/09 | 7.04 | 27.5 | 1454 | 1400 |
| | | 5/13/09 | 6.62 | 31.0 | 1569 | 1500 |
| | | 4/27/10 | 6.61 | 29.3 | 1382 | 1400 |
| | | 5/24/11 | 6.77 | 27.4 | 2650 | 1500 |
| | | 5/30/12 | 6.83 | 30.3 | 2730 | 1440 |
| | | 4/23/13 | 7.34 | 27.7 | 2410 | 1480 |
| | | 4/29/14 | 7.12 | 27.6 | 1946 | 1590 |
| | | 4/16/15 | 7.14 | 27.9 | 2060 | 1550 |
| MH-13A | 904071 | 11/10/06 | NM | NM | NM | 1680 |
| | | 1/24/07 | 7.87 | 25.0 | 1458 | 1700 |
| | | 4/18/07 | 7.1 | 27.4 | 1609 | 1720 |
| | | 7/17/07 | 6.98 | 28.1 | 1553 | 1760 |
| | | 1/4/08 | 6.97 | 26.1 | 1810 | 1710 |
| | | 4/29/08 | 7.09 | 28.8 | 1174 | 1800 |
| | | 7/16/08 | 7.03 | 27.4 | 1824 | 1720 |
| | | 7/16/08 DUP | 7.03 | 27.4 | 1824 | 1710 |
| | | 10/20/08 | 7.07 | 27.7 | 1984 | 1800 |
| | | 1/23/09 | 6.84 | 25.1 | 1510 | 1700 |
| | | 4/15/09 | 7.12 | 25.6 | 1643 | 1650 |
| | | 4/21/10 | 7.24 | 25.3 | 1384 | 1700 |
| | | 5/23/11 | 7.12 | 26.9 | 3450 | 1840 |
| | | 6/11/12 | 7.10 | 27.6 | 3340 | 1680 |
| | | 4/3/13 | 7.20 | 25.9 | 2870 | 1760 |
| | | 4/10/14 | 10.34 | 22.9 | 1820 | 1190 |
| | | 4/22/15 | 9.19 | 24.6 | 1322 | 1100 |
| MH-13B | 904072 | 11/10/06 | NM | NM | NM | 1080 |
| | | 1/24/07 | 8.07 | 25.9 | 1262 | 1100 |
| | | 4/18/07 | 7.36 | 30 | 1396 | 1120 |
| | | 7/17/07 | 7.28 | 28.5 | 1786 | 1150 |
| | | 1/4/08 | 7.21 | 27.2 | 1576 | 1110 |
| | | 4/29/08 | 7.26 | 29.6 | 985 | 1110 |
| | | 7/16/08 | 7.42 | 31.5 | 1589 | 1110 |
| | | 10/20/08 | 7.34 | 29.6 | 1627 | 1080 |
| | | 1/23/09 | 7.13 | 26.6 | 1639 | 1130 |
| | | 4/15/09 | 7.50 | 25.4 | 1370 | 1030 |
| | | 4/15/09 DUP | 7.50 | 25.4 | 1370 | 1100 |
| | | 4/21/10 | 7.57 | 28.8 | 1100 | 1030 |
| | | 5/23/11 | 7.28 | 28.3 | 2400 | 1090 |
| | | 5/23/11 DUP | 7.28 | 28.3 | 2400 | 1110 |
| | | 6/11/12 | 7.24 | 29.1 | 2310 | 1020 |
| | | 4/3/13 | 7.42 | 27.5 | 1818 | 1050 |
| | | 4/10/14 | 9.56 | 25.7 | 1510 | 849 |
| | | 4/22/15 | 9.54 | 26.9 | 1246 | 903 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MH-13C | 904073 | 11/10/06 | NM | NM | NM | 90 |
| | | 1/24/07 | 9.12 | 22.9 | 450 | 100 |
| | | 4/18/07 | 9.2 | 29.1 | 379 | 20 |
| | | 7/17/07 | 8.78 | 33.8 | 380 | 20 |
| | | 1/4/08 | 8.99 | 26.6 | 396 | 20 |
| | | 5/7/08 | 8.71 | 30.4 | 363 | 40 |
| | | 7/16/08 | 8.69 | 32.01 | 371 | 70 |
| | | 10/20/08 | 8.90 | 32.8 | 380 | 60 |
| | | 1/27/09 | 7.99 | 27.3 | 323 | 30 |
| | | 4/15/09 | 8.79 | 25.9 | 421 | 42 |
| | | 4/21/10 | 8.84 | 28.0 | 385 | 27 |
| | | 5/23/11 | 8.65 | 30.4 | 364 | 43 |
| | | 6/11/12 | 8.61 | 30.7 | 411 | 50 |
| | | 4/3/13 | 8.77 | 28.3 | 340 | 45 |
| | | 4/10/14 | 9.69 | 25.6 | 275 | 1.2 |
| | | 4/22/15 | 9.14 | 26.8 | 211 | 0.78 |
| MH-14 | 528098 | 4/21/15 | 7.35 | 26.6 | 1459 | 1650 |
| MH-16W | 528099 | 11/4/14 | 7.76 | 23.3 | 3220 | 1880 |
| | | 11/4/14 DUP | 7.76 | 23.3 | 3220 | 1800 |
| | | 4/21/15 | 7.36 | 23.6 | 1372 | 1830 |
| MH-25A | 201528 | 11/13/06 | NM | NM | NM | 190 |
| | | 1/10/07 | 8.09 | 26.0 | 344 | 10 |
| | | 4/4/07 | 7.82 | 26.6 | 322 | <10 |
| | | 7/20/07 | 7.63 | 28.6 | 431 | <10 |
| | | 1/2/08 | 7.91 | 25.3 | 401 | 10 |
| | | 4/25/08 | 7.54 | 27 | 311 | 30 |
| | | 7/2/08 | 7.66 | 27.6 | 342 | <10 |
| | | 10/17/08 | 7.84 | 27.5 | 333 | 50 |
| | | 1/5/09 | 7.75 | 24.5 | 336 | 12 |
| | | 4/15/09 | 7.81 | 25.1 | 350 | 4 |
| | | 4/13/10 | 7.76 | 25.3 | 334 | 9 |
| | | 4/27/11 | 7.76 | 25.9 | 358 | 16 |
| | | 5/1/12 | 7.83 | 27.8 | 376 | 13 |
| | | 4/3/13 | 7.69 | 26.8 | 335 | 9 |
| | | 4/15/14 | 7.92 | 25.0 | 265 | 17 |
| | | 4/7/15 | 7.82 | 26.1 | 268 | 12.3 |
| MH-25B | 208429 | 11/13/06 | NM | NM | NM | 1660 |
| | | 1/10/07 | 7.54 | 26.1 | 1440 | 1680 |
| | | 4/4/07 | 7.32 | 28.7 | 1333 | 1550 |
| | | 7/20/07 | 7.16 | 28.4 | 1649 | 1760 |
| | | 1/2/08 | 7.10 | 26.5 | 1900 | 1730 |
| | | 4/25/08 | 7.05 | 28.6 | 1138 | 1750 |
| | | 7/2/08 | 7.04 | 28.6 | 1851 | 1650 |
| | | 10/17/08 | 7.74 | 28.8 | 1768 | 1660 |
| | | 1/5/09 | 7.22 | 24.9 | 1581 | 1590 |
| | | 4/15/09 | 7.25 | 25.2 | 1483 | 1600 |
| | | 4/13/10 | 7.59 | 28.1 | 1120 | 900 |
| | | 4/27/11 | 7.35 | 27.0 | 3050 | 1810 |
| | | 6/15/11 | 7.31 | 29.3 | 3690 | 1700 |
| | | 5/1/12 | 7.31 | 29.3 | 1864 | 1690 |
| | | 4/3/13 | 7.46 | 27.9 | 2620 | 1700 |
| | | 4/15/14 | 7.82 | 26.6 | 1714 | 1740 |
| | | 4/7/15 | 8.00 | 27.4 | 1430 | 1580 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MH-25C | 208426 | 11/13/06 | NM | NM | NM | 1290 |
| | | 1/10/07 | 7.46 | 26.3 | 1361 | 1250 |
| | | 4/13/07 | 7.24 | 26 | 1357 | 1260 |
| | | 7/20/07 | 7.13 | 30.2 | 1599 | 1240 |
| | | 1/2/08 | 7.25 | 28.2 | 1608 | 1250 |
| | | 4/25/08 | 7.20 | 30 | 1031 | 1240 |
| | | 7/2/08 | 7.13 | 28.4 | 1736 | 1330 |
| | | 10/17/08 | 7.17 | 30.4 | 1624 | 1270 |
| | | 1/5/09 | 7.15 | 27 | 1466 | 1250 |
| | | 4/15/09 | 7.28 | 26.6 | 1368 | 1270 |
| | | 4/13/10 | 7.24 | 27.6 | 1292 | 1600 |
| | | 4/27/11 | 8.41 | 25.1 | 1874 | 1290 |
| | | 5/1/12 | 7.39 | 29.5 | 1667 | 1290 |
| | | 4/3/13 | 7.44 | 28.0 | 1838 | 1270 |
| | | 4/3/13 DUP | 7.44 | 28.0 | 1838 | 1290 |
| | | 4/15/14 | 7.87 | 27.6 | 1411 | 1090 |
| MH-26A | 201527 | 11/13/06 | NM | NM | NM | 10 |
| | | 1/15/07 | 7.89 | 26.2 | 316 | <10 |
| | | 4/4/07 | 7.83 | 27 | 325 | 10 |
| | | 7/19/07 | 7.80 | 26.9 | 428 | 20 |
| | | 1/2/08 | 7.72 | 25.3 | 395 | <10 |
| | | 4/25/08 | 7.62 | 25.3 | 317 | 100 |
| | | 7/2/08 | 7.57 | 27.8 | 337 | 20 |
| | | 10/17/08 | 7.70 | 27.4 | 327 | 20 |
| | | 1/5/09 | 7.65 | 26.4 | 343 | 13 |
| | | 4/21/09 | 7.57 | 26.3 | 322 | 10 |
| | | 4/13/10 | 7.60 | 26.7 | 332 | 8 |
| | | 4/27/11 | 7.78 | 25.7 | 357 | 8 |
| | | 4/27/11 DUP | 7.78 | 25.7 | 357 | 9 |
| | | 5/2/12 | 7.59 | 27.5 | 386 | 9 |
| | | 4/4/13 | 7.72 | 27.0 | 350 | 8 |
| | | 4/15/14 | 7.78 | 24.3 | 210 | 11.6 |
| MH-26B | 208427 | 11/13/06 | NM | NM | NM | 1560 |
| | | 1/15/07 | 7.53 | 26.4 | 1310 | 1590 |
| | | 4/4/07 | 7.31 | 30.5 | 1448 | 1620 |
| | | 7/19/07 | 7.10 | 29.0 | 1652 | 1590 |
| | | 7/19/07 | 7.10 | 29.0 | 1652 | 1570 |
| | | 1/2/08 | 7.09 | 26.5 | 1849 | 1670 |
| | | 4/25/08 | 6.95 | 28.8 | 1095 | 1630 |
| | | 7/2/08 | 6.98 | 29.1 | 1835 | 1660 |
| | | 10/20/08 | 7.16 | 29.2 | 1760 | 1650 |
| | | 1/5/09 | 7.07 | 26.4 | 1661 | 1540 |
| | | 1/5/09 DUP | 7.07 | 26.4 | 1661 | 1500 |
| | | 4/21/09 | 6.85 | 28.8 | 1238 | 1520 |
| | | 4/13/10 | 7.27 | 27.3 | 1290 | 1600 |
| | | 5/5/11 | 7.17 | 27.2 | 2910 | 1710 |
| | | 5/1/12 | 7.26 | 29.7 | 1912 | 1680 |
| | | 5/1/12 DUP | 7.26 | 29.7 | 1912 | 1750 |
| | | 4/4/13 | 7.26 | 28.4 | 2550 | 1690 |
| | | 4/15/14 | 7.89 | 27.2 | 1661 | 1570 |
| | | 4/7/15 | 8.05 | 27.6 | 1433 | 1650 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MH-26C | 208428 | 11/13/06 | NM | NM | NM | 730 |
| | | 1/15/07 | 7.89 | 24.6 | 1059 | 740 |
| | | 4/4/07 | 7.58 | 29.5 | 1128 | 720 |
| | | 7/19/07 | 7.55 | 30.5 | 1267 | 730 |
| | | 7/19/07 | 7.55 | 30.5 | 1267 | 740 |
| | | 1/2/08 | 7.68 | 28.2 | 1411 | 740 |
| | | 4/25/08 | 8.58 | 27.8 | 872 | 580 |
| | | 7/2/08 | 7.90 | 30.8 | 1251 | 720 |
| | | 7/2/08 DUP | 7.90 | 30.8 | 1251 | 720 |
| | | 1/5/09 | 7.36 | 25.7 | 1270 | 680 |
| | | 4/21/09 | 7.49 | 29.6 | 1034 | 660 |
| | | 4/13/10 | 7.57 | 28.4 | 1078 | 770 |
| | | 4/13/10 DUP | 7.57 | 28.4 | 1078 | 780 |
| | | 4/27/11 | 7.59 | 29.1 | 1755 | 810 |
| | | 5/1/12 | 7.56 | 30.6 | 1428 | 820 |
| | | 4/4/13 | 7.58 | 29.3 | 1533 | 880 |
| | | 4/15/14 | 8.08 | 28.1 | 1203 | 909 |
| | | 4/15/14 DUP | 8.08 | 28.1 | 1203 | 908 |
| | | 4/7/15 | 8.06 | 28.1 | 1190 | 970 |
| MH-28 | 903648 | 11/14/06 | NM | NM | NM | 1860 |
| | | 1/9/07 | 7.22 | 25.8 | 2690 | 1920 |
| | | 4/17/07 | 6.98 | 26.1 | 1359 | 1920 |
| | | 7/16/07 | 6.89 | 27.1 | 1206 | 1880 |
| | | 1/21/08 | 7.39 | 23.9 | 903 | 1940 |
| | | 4/8/08 | 6.99 | 25.5 | 1852 | 1900 |
| | | 7/1/08 | 6.95 | 26.62 | 3322 | 1680 |
| | | 10/6/08 | 6.97 | 26.7 | 3500 | 1910 |
| | | 1/8/09 | 7.05 | 25.7 | 3600 | 1910 |
| | | 4/7/09 | 6.84 | 26.4 | 6300 | 1860 |
| | | 10/13/09 | 6.88 | 25.7 | 1589 | 1800 |
| | | 4/15/10 | 7.11 | 25.1 | 1399 | 1900 |
| | | 10/12/10 | 6.99 | 25.3 | 3460 | 1820 |
| | | 5/17/11 | 6.94 | 25.6 | 3380 | 2000 |
| | | 10/4/11 | 7.12 | 25.8 | 1390 | 1800 |
| | | 5/21/12 | 6.64 | 28.8 | 3360 | 1600 |
| | | 10/9/12 | 6.97 | 26.8 | 2980 | 1900 |
| | | 4/2/13 | 6.95 | 26.9 | 2930 | 1867.1 |
| | | 10/21/13 | 7.78 | 25.3 | 2916 | 2020 |
| | | 4/9/14 | 7.81 | 24.4 | 3365 | 2020 |
| | | 11/4/14 | 7.63 | 24.3 | 3270 | 1940 |
| | | 1/7/15 | 7.54 | 24.9 | 3385 | 2020 |
| | | 4/21/15 | 7.36 | 25.2 | 1571 | 1820 |
| | | 10/8/15 | 7.52 | 25.3 | 1610 | 1900 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MH-29 | 903649 | 11/14/06 | NM | NM | NM | 1640 |
| | | 1/9/07 | 7.47 | 25.8 | 2600 | 1660 |
| | | 1/9/07 | 7.47 | 25.8 | 2600 | 1650 |
| | | 4/17/07 | 7.01 | 25.1 | 1345 | 1690 |
| | | 7/16/07 | 6.95 | 27.4 | 1177 | 1650 |
| | | 1/18/08 | 7.17 | 23.5 | 1045 | 1710 |
| | | 4/8/08 | 6.98 | 24.1 | 1580 | 1700 |
| | | 7/1/08 | 6.99 | 25.95 | 3361 | 1730 |
| | | 10/6/08 | 6.95 | 26.9 | 3300 | 1740 |
| | | 1/9/09 | 7.03 | 25.7 | 9200 | 1730 |
| | | 4/7/09 | 6.80 | 26.4 | 7700 | 1720 |
| | | 4/7/09 DUP | 6.80 | 26.4 | 7700 | 1700 |
| | | 10/13/09 | 6.95 | 25.0 | 1421 | 1600 |
| | | 10/13/09 DUP | 6.95 | 25.0 | 1421 | 1700 |
| | | 4/15/10 | 6.99 | 24.9 | 1358 | 1700 |
| | | 10/12/10 | 7.04 | 23.9 | 3290 | 1520 |
| | | 4/20/11 | 6.98 | 26.0 | 2950 | 1790 |
| | | 4/20/11 DUP | 6.98 | 26.0 | 2950 | 1770 |
| | | 10/4/11 | 6.91 | 25.3 | 1765 | 1600 |
| | | 5/21/12 | 6.62 | 26.6 | 3210 | 1600 |
| | | 10/9/12 | 6.97 | 26.3 | 2710 | 1700 |
| | | 4/2/13 | 7.06 | 24.9 | 2750 | 1707.1 |
| | | 12/11/13 | 7.31 | 24.3 | 1645 | 1770 |
| | | 4/9/14 | 7.28 | 23.6 | 3176 | 1800 |
| | | 11/4/14 | 7.36 | 23.6 | 3260 | 1870 |
| | | 1/7/15 | 7.36 | 23.7 | 3310 | 1790 |
| | | 1/7/15 DUP | 7.36 | 7.0 | 3310 | 1940 |
| | | 4/21/15 | 7.54 | 25.6 | 1368 | 1700 |
| MH-30 | 903884 | 11/10/06 | NM | NM | NM | 1690 |
| | | 1/9/07 | 7.33 | 26.2 | 2780 | 1760 |
| | | 4/9/07 | 7.3 | 27.3 | 1529 | 1810 |
| | | 7/11/07 | 7.18 | 31.9 | 1694 | 1820 |
| | | 1/18/08 | 7.13 | 28.5 | 1147 | 1830 |
| | | 4/8/08 | 7.27 | 27.1 | 1505 | 1830 |
| | | 7/1/08 | 7.02 | 30.73 | 3740 | 1660 |
| | | 10/6/08 | 6.95 | 29.8 | 3900 | 1810 |
| | | 1/7/09 | 7.12 | 28 | 3600 | 1840 |
| | | 4/7/09 | 6.81 | 29.5 | 3400 | 1790 |
| | | 4/7/09 DUP | 6.81 | 29.5 | 3400 | 1800 |
| | | 4/15/10 | 6.96 | 28.9 | 1697 | 1480 |
| | | 5/17/11 | 6.95 | 27.5 | 3360 | 1760 |
| | | 5/17/11 DUP | 6.95 | 27.5 | 3360 | 1750 |
| | | 4/26/12 | 7.05 | 28.1 | 1618 | 1738 |
| | | 6/6/13 | 7.26 | 29.5 | 2630 | 1760 |
| | | 6/6/13 DUP | 7.26 | 29.5 | 2630 | 1800 |
| | | 4/8/14 | 7.20 | 27.7 | 3242 | 1720 |
| | | 4/21/15 | 7.33 | 28.6 | 1574 | 1750 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-1A | 907342 | 8/8/07 | 7.17 | 29.0 | 370 | 19.2 |
| | | 1/24/08 | 7.83 | 24.0 | 370 | 20 |
| | | 4/9/08 | 7.42 | 24.1 | 383 | 21 |
| | | 7/14/08 | 7.41 | 27.9 | 359 | 16.6 |
| | | 10/17/08 | 7.46 | 27.7 | 357 | 17.9 |
| | | 1/16/09 | 7.31 | 22.6 | 365 | 18.1 |
| | | 4/1/09 | 7.55 | 26.5 | 387 | 18.2 |
| | | 7/1/09 | 7.64 | 28.5 | 361 | 16.3 |
| | | 10/22/09 | 7.53 | 26.4 | 360 | 16.6 |
| | | 10/22/09 DUP | 7.53 | 26.4 | 360 | 16.6 |
| | | 4/16/10 | 7.52 | 26.7 | 357 | 18.5 |
| | | 10/13/10 | 7.51 | 27.5 | 372 | 16 |
| | | 5/5/11 | 7.51 | 27.4 | 401 | 17.9 |
| | | 10/6/11 | 7.79 | 23.4 | 371 | 16.143 |
| | | 6/12/12 | 7.40 | 27.9 | 371 | 16.98 |
| | | 10/24/12 | 7.69 | 25.1 | 368 | 16.5 |
| | | 4/8/13 | 7.55 | 25.6 | 363 | 17.92 |
| | | 10/23/13 | 7.72 | 26.2 | 246 | 16.2 |
| | | 4/29/14 | 7.73 | 25.6 | 278 | 16.2 |
| | | 11/12/14 | 7.72 | 25.9 | 303 | 16.1 |
| | | 11/12/14 DUP | 7.72 | 25.9 | 303 | 16.8 |
| | | 4/22/15 | 7.76 | 26.7 | 273 | 18.5 |
| | | 10/20/15 | 7.73 | 26.1 | 394 | 18.2 |
| MO-2007-1B | 907210 | 8/2/07 | 7.41 | 30.7 | 321 | 18.9 |
| | | 1/24/08 | 7.78 | 26.9 | 375 | 30 |
| | | 4/9/08 | 7.70 | 23.1 | 400 | 35 |
| | | 7/14/08 | 7.68 | 26.6 | 402 | 39.8 |
| | | 10/17/08 | 7.56 | 28.1 | 423 | 54.3 |
| | | 1/16/09 | 7.49 | 28.2 | 427 | 69.7 |
| | | 4/1/09 | 7.78 | 26.4 | 511 | 84.1 |
| | | 7/1/09 | 7.57 | 30.1 | 527 | 99 |
| | | 10/22/09 | 7.63 | 28.5 | 600 | 143 |
| | | 4/16/10 | 7.59 | 26.9 | 663 | 212 |
| | | 10/13/10 | 7.46 | 28.7 | 1026 | 337 |
| | | 10/13/10 DUP | 7.46 | 28.7 | 1026 | 360 |
| | | 5/5/11 | 7.42 | 28.6 | 1214 | 479 |
| | | 10/6/11 | 7.84 | 24.8 | 1178 | 604.67 |
| | | 10/6/11 DUP | 7.84 | 24.8 | 1178 | 614.84 |
| | | 6/12/12 | 6.99 | 29.0 | 1664 | 766.0 |
| | | 10/24/12 | 7.56 | 26.2 | 1460 | 975.8 |
| | | 4/8/13 | 7.57 | 26.5 | 1577 | 873.7 |
| | | 10/23/13 | 8.51 | 26.3 | 971 | 806 |
| | | 4/29/14 | 8.86 | 26.3 | 1522 | 1070 |
| | | 11/12/14 | 8.81 | 26.2 | 1409 | 885 |
| | | 4/22/15 | 8.88 | 26.9 | 1136 | 987 |
| | | 4/22/15 DUP | 8.88 | 26.9 | 1136 | 1000 |
| | | 10/20/15 | 8.91 | 26.8 | 1320 | 990 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-1C | 907209 | 7/31/07 | 7.35 | 27.9 | 523 | 112 |
| | | 1/24/08 | 7.84 | 26.9 | 520 | 140 |
| | | 4/9/08 | 7.57 | 27.3 | 596 | 149 |
| | | 4/9/08 DUP | 7.57 | 27.3 | 596 | 153 |
| | | 7/14/08 | 7.64 | 31.4 | 608 | 165 |
| | | 10/21/08 | 7.80 | 29.8 | 573 | 146 |
| | | 1/16/09 | 7.17 | 27.5 | 652 | 233 |
| | | 1/16/09 DUP | 7.17 | 27.5 | 652 | 218 |
| | | 4/1/09 | 7.66 | 27.1 | 700 | 229 |
| | | 7/1/09 | 7.33 | 30.8 | 367 | 236 |
| | | 7/1/09 DUP | 7.33 | 30.8 | 367 | 227 |
| | | 10/22/09 | 7.66 | 28.1 | 356 | 301 |
| | | 4/16/10 | 7.66 | 28.5 | 730 | 320 |
| | | 10/13/10 | 7.72 | 29.1 | 1004 | 377 |
| | | 4/20/11 | 7.28 | 29.2 | 1009 | 381 |
| | | 10/6/11 | 8.10 | 25.9 | 942 | 393.94 |
| | | 6/12/12 | 7.05 | 29.5 | 1085 | 406.4 |
| | | 10/24/12 | 8.40 | 26.5 | 694 | 239.2 |
| | | 10/24/12 DUP | 8.40 | 26.5 | 694 | 235.26 |
| | | 4/8/13 | 7.88 | 26.4 | 1017 | 416.3 |
| | | 10/23/13 | 8.47 | 27.9 | 463 | 132 |
| | | 4/29/14 | 8.49 | 26.8 | 610 | 240 |
| | | 4/29/14 DUP | 8.49 | 26.8 | 610 | 247 |
| | | 11/12/14 | 9.18 | 27.1 | 284 | 92.7 |
| | | 4/22/15 | 8.89 | 26.3 | 229 | 42.4 |
| | | 10/20/15 | 9.88 | 27.0 | 319 | 5.75 |
| MO-2007-2 | 906765 | 6/14/07 | 7.05 | 32.2 | 1372 | 591 |
| | | 8/9/07 | 7.11 | 32.2 | 1271 | 520 |
| | | 1/22/08 | 7.48 | 30.9 | 757 | 530 |
| | | 4/17/08 | 7.32 | 29.8 | 818 | 473 |
| | | 7/14/08 | 7.11 | 31.3 | 987 | 472 |
| | | 7/14/08 DUP | 7.11 | 31.3 | 987 | 446 |
| | | 1/16/09 | 7.27 | 30.6 | 1200 | 456 |
| | | 4/1/09 | 7.34 | 28.5 | 922 | 458 |
| | | 4/13/10 | 7.17 | 30.3 | 855 | 439 |
| | | 4/13/10 DUP | 7.17 | 30.3 | 855 | 450 |
| | | 4/27/11 | 7.27 | 28.7 | 1249 | 507 |
| | | 4/27/11 DUP | 7.27 | 28.7 | 1249 | 503 |
| | | 5/2/12 | 7.30 | 31.8 | 1245 | 543.50 |
| | | 4/8/13 | 7.34 | 30.1 | 1164 | 455.7 |
| | | 4/9/14 | 8.12 | 30.0 | 608 | 254 |
| | | 4/9/14 DUP | 8.12 | 30.0 | 608 | 248 |
| | | 4/7/15 | 7.56 | 28.1 | 510 | 255 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-3B | 906816 | 1/21/08 | 7.94 | 26.5 | 353 | 40 |
| | | 4/16/08 | 7.77 | 28.2 | 322 | 37 |
| | | 7/14/08 | 7.70 | 30.2 | 338 | 37.8 |
| | | 10/22/08 | 7.69 | 28.1 | 379 | 42.4 |
| | | 10/22/08 DUP | 7.69 | 28.1 | 379 | 41.6 |
| | | 1/19/09 | 7.82 | 28.1 | 342 | 36.9 |
| | | 1/19/09 DUP | 7.82 | 28.1 | 342 | 36.4 |
| | | 4/1/09 | 7.89 | 25.7 | 376 | 38.2 |
| | | 7/27/09 | 7.78 | 28.2 | 353 | 37.2 |
| | | 10/22/09 | 7.76 | 28.0 | 354 | 39.1 |
| | | 1/20/10 | 7.97 | 27.6 | 328 | 37.9 |
| | | 4/14/10 | 7.83 | 28.6 | 336 | 40.4 |
| | | 7/21/10 | 7.86 | 27.7 | 372 | 38.7 |
| | | 10/26/10 | 7.78 | 26.6 | 361 | 39.1 |
| | | 1/18/11 | 7.83 | 27.3 | 353 | 38.2 |
| | | 5/4/11 | 7.81 | 29.3 | 359 | 38.1 |
| | | 7/6/11 | 7.75 | 30.2 | 362 | 38.3 |
| | | 10/5/11 | 8.04 | 25.7 | 395 | 37.822 |
| | | 11/22/11 | 8.00 | 26.1 | 286 | 36.7 |
| | | 1/11/12 | 7.55 | 27.0 | 211 | 39.00 |
| | | 5/8/12 | 7.88 | 30.8 | 329 | 37.64 |
| | | 8/7/12 | 7.88 | 29.1 | 419 | 36.26 |
| | | 10/10/12 | 7.94 | 28.1 | 390 | 37.01 |
| | | 1/8/13 | 8.10 | 27.0 | 374 | 33.77 |
| | | 4/9/13 | 8.01 | 25.5 | 329 | 37.54 |
| | | 5/21/13 | 8.17 | 26.9 | 284 | 26.96 |
| | | 8/27/13 | 8.59 | 27.8 | 204 | 3.47 |
| | | 8/27/13 DUP | 8.59 | 27.8 | 204 | 4.13 |
| | | 10/24/13 | 8.03 | 26.1 | 279 | 33.8 |
| | | 10/24/13 DUP | 8.03 | 26.1 | 279 | 33.9 |
| | | 1/7/14 | 8.11 | 24.6 | 230 | 2.16 |
| | | 4/16/14 | 8.91 | 25.0 | 153 | <0.5 |
| | | 7/9/14 | 8.98 | 26.1 | 155 | <0.5 |
| | | 11/13/14 | 9.40 | 25.7 | 167 | <0.5 |
| | | 1/21/15 | 9.07 | 25.7 | 259 | <0.5 |
| | | 4/27/15 | 8.58 | 26.3 | 278 | <0.5 |
| | | 7/7/15 | 8.46 | 26.6 | 274 | 1.37 |
| | | 10/21/15 | 9.10 | 25.8 | 207 | <0.5 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-3C | 906817 | 6/28/07 | 7.93 | 32.2 | 570 | 136 |
| | | 1/21/08 | 8.21 | 27.6 | 507 | 130 |
| | | 4/15/08 | 7.87 | 30.1 | 477 | 127 |
| | | 7/17/08 | 7.98 | 32.7 | 493 | 126 |
| | | 10/21/08 | 8.07 | 32.9 | 519 | 103 |
| | | 1/19/09 | 8.00 | 30.7 | 490 | 113 |
| | | 4/1/09 | 8.09 | 28.3 | 541 | 115 |
| | | 7/22/09 | 8.07 | 31.4 | 510 | 107 |
| | | 10/22/09 | 8.01 | 29.8 | 488 | 108 |
| | | 1/20/10 | 8.20 | 26.2 | 469 | 103 |
| | | 4/14/10 | 8.07 | 30.9 | 465 | 110 |
| | | 7/21/10 | 8.05 | 30.4 | 511 | 101 |
| | | 10/26/10 | 7.92 | 29.5 | 471 | 104 |
| | | 1/18/11 | 8.06 | 29.1 | 492 | 106 |
| | | 5/4/11 | 8.11 | 30.4 | 504 | 107 |
| | | 7/6/11 | 8.02 | 32.5 | 248 | 101 |
| | | 10/5/11 | 8.28 | 29.3 | 524 | 96.818 |
| | | 1/11/12 | 7.92 | 29.4 | 283 | 104.03 |
| | | 5/7/12 | 8.10 | 30.3 | 440 | 95.99 |
| | | 8/7/12 | 7.93 | 30.7 | 553 | 93.25 |
| | | 10/10/12 | 8.04 | 29.4 | 487 | 99.13 |
| | | 1/8/13 | 8.09 | 26.5 | 431 | 62.35 |
| | | 1/8/13 DUP | 8.09 | 26.5 | 431 | 62.62 |
| | | 4/9/13 | 8.35 | 28.2 | 432 | 89.78 |
| | | 8/27/13 | 8.81 | 29.6 | 324 | 47.00 |
| | | 10/24/13 | 8.43 | 27.4 | 313 | 79.0 |
| | | 1/7/14 | 8.64 | 25.1 | 312 | 56.9 |
| | | 4/16/14 | 9.38 | 26.4 | 259 | 35.6 |
| | | 7/9/14 | 8.73 | 26.5 | 418 | 32.1 |
| | | 11/13/14 | 9.33 | 26.6 | 277 | 20.2 |
| | | 1/21/15 | 9.12 | 27.6 | 446 | 68.5 |
| | | 1/21/15 DUP | 9.12 | 27.6 | 446 | 70.3 |
| | | 4/27/15 | 8.40 | 26.7 | 282 | 40.1 |
| | | 7/7/15 | 7.60 | 27.7 | 315 | 35.2 |
| | | 10/21/15 | 9.42 | 26.0 | 360 | 27.9 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-4A | 907213 | 1/22/08 | 7.82 | 25.0 | 405 | 40 |
| | | 4/16/08 | 7.65 | 25.8 | 372 | 33.1 |
| | | 7/18/08 | 7.44 | 27.4 | 416 | 35.3 |
| | | 10/22/08 | 7.58 | 26.9 | 420 | 40.1 |
| | | 1/19/09 | 7.52 | 28 | 392 | 35.9 |
| | | 4/2/09 | 7.85 | 26.8 | 393 | 36.7 |
| | | 4/2/09 DUP | 7.85 | 26.8 | 393 | 36.5 |
| | | 7/1/09 | 7.55 | 26.4 | 395 | 36.3 |
| | | 10/26/09 | 7.64 | 27.2 | 378 | 35.7 |
| | | 1/26/10 | 7.66 | 25.7 | 356 | 36.0 |
| | | 4/14/10 | 7.63 | 25.2 | 379 | 37.0 |
| | | 7/21/10 | 7.54 | 26.9 | 420 | 34.9 |
| | | 10/13/10 | 7.55 | 26.1 | 414 | 35.2 |
| | | 1/19/11 | 7.61 | 25.8 | 403 | 35.8 |
| | | 5/4/11 | 7.57 | 26.5 | 411 | 35.9 |
| | | 7/6/11 | 7.47 | 27.4 | 417 | 35.3 |
| | | 10/5/11 | 7.82 | 24.1 | 435 | 34.47 |
| | | 1/17/12 | 7.54 | 24.5 | 274 | 37.55 |
| | | 5/7/12 | 7.49 | 24.7 | 381 | 35.62 |
| | | 8/13/12 | 7.53 | 26.5 | 378 | 35.33 |
| | | 10/23/12 | 7.48 | 27.2 | 380 | 94.87 |
| | | 2/21/13 | 7.53 | 28.6 | 337 | 33.48 |
| | | 4/10/13 | 7.82 | 26.0 | 319 | 34.69 |
| | | 7/10/13 | 7.68 | 25.3 | 347 | 36.60 |
| | | 10/22/13 | 7.81 | 23.5 | 282 | 35.0 |
| | | 1/10/14 | 7.73 | 23.7 | 281 | 35.4 |
| | | 4/8/14 | 7.65 | 24.6 | 353 | 34.9 |
| | | 7/8/14 | 7.52 | 24.8 | 465 | 34.6 |
| | | 11/12/14 | 7.71 | 24.6 | 404 | 34.3 |
| | | 1/14/15 | 7.71 | 24.8 | 404 | 34.4 |
| | | 4/15/15 | 7.59 | 25.3 | 374 | 39.7 |
| | | 4/15/15 DUP | 7.59 | 25.3 | 374 | 39.1 |
| | | 7/8/15 | 7.28 | 25.5 | 470 | 40.2 |
| | | 7/8/15 DUP | 7.28 | 25.5 | 470 | 40.1 |
| | | 10/22/15 | 7.72 | 25.2 | 410 | 39.3 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-4B | 907212 | 1/7/08 | 7.69 | 25.5 | 445 | NA |
| | | 4/16/08 | 7.66 | 26.9 | 343 | 33.6 |
| | | 7/18/08 | 7.57 | 29.2 | 391 | 34.8 |
| | | 7/18/08 DUP | 7.57 | 29.2 | 391 | 35.1 |
| | | 10/22/08 | 7.73 | 30.8 | 407 | 34.7 |
| | | 1/21/09 | 7.71 | 27.3 | 377 | 32.9 |
| | | 4/2/09 | 7.93 | 28.3 | 363 | 34.6 |
| | | 7/1/09 | 7.64 | 27.8 | 370 | 34.7 |
| | | 10/26/09 | 7.68 | 28.7 | 348 | 34.5 |
| | | 1/26/10 | 7.74 | 23.7 | 332 | 34.1 |
| | | 4/14/10 | 7.76 | 25.1 | 342 | 35.1 |
| | | 7/21/10 | 7.71 | 30.2 | 379 | 34 |
| | | 7/21/10 DUP | 7.71 | 30.2 | 379 | 34.9 |
| | | 10/13/10 | 7.69 | 28.1 | 378 | 34.2 |
| | | 1/19/11 | 7.73 | 26.9 | 367 | 34.6 |
| | | 1/19/11 DUP | 7.73 | 26.9 | 367 | 34.4 |
| | | 5/4/11 | 7.72 | 28.1 | 379 | 34.5 |
| | | 7/6/11 | 7.73 | 28.0 | 381 | 34.4 |
| | | 10/5/11 | 8.01 | 27.6 | 401 | 34.194 |
| | | 10/5/11 DUP | 8.01 | 27.6 | 401 | 33.36 |
| | | 1/17/12 | 7.81 | 26.7 | 259 | 33.14 |
| | | 5/7/12 | 7.83 | 29.0 | 342 | 34.25 |
| | | 8/13/12 | 7.75 | 28.2 | 353 | 34.02 |
| | | 10/23/12 | 7.72 | 27.9 | 364 | 34.37 |
| | | 2/21/13 | 7.75 | 25.7 | 299 | 32.01 |
| | | 4/10/13 | 8.06 | 24.7 | 312 | 33.31 |
| | | 7/10/13 | 8.48 | 25.9 | 200 | 4.51 |
| | | 10/22/13 | 8.86 | 24.4 | 142 | <0.5 |
| | | 1/10/14 | 8.83 | 23.6 | 185 | <0.5 |
| | | 4/8/14 | 8.90 | 24.6 | 165 | <0.5 |
| | | 7/8/14 | 8.75 | 25.3 | 220 | <0.5 |
| | | 11/12/14 | 8.72 | 25.7 | 405 | 29.1 |
| | | 1/14/15 | 8.30 | 25.8 | 256 | 16.8 |
| | | 4/15/15 | 7.88 | 26.6 | 337 | 35.1 |
| | | 7/8/15 | 7.64 | 25.9 | 297 | 16.6 |
| | | 10/22/15 | 7.87 | 25.7 | 266 | 0.85 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-4C | 907211 | 8/16/07 | 7.62 | 35.2 | 472 | 78.7 |
| | | 1/22/08 | 8.33 | 27.3 | 465 | 80 |
| | | 4/16/08 | 8.19 | 29.9 | 420 | 80 |
| | | 7/18/08 | 8.27 | 31.9 | 467 | 78.6 |
| | | 10/22/08 | 8.45 | 31.8 | 467 | 85.9 |
| | | 1/21/09 | 8.84 | 29.1 | 467 | 78.5 |
| | | 4/2/09 | 8.48 | 30.3 | 444 | 81 |
| | | 7/1/09 | 8.25 | 31.1 | 446 | 82.7 |
| | | 10/26/09 | 8.22 | 30.5 | 427 | 83.9 |
| | | 10/26/09 DUP | 8.22 | 30.5 | 427 | 83.8 |
| | | 1/26/10 | 8.40 | 30.0 | 409 | 83.2 |
| | | 4/14/10 | 8.11 | 27.6 | 423 | 87.7 |
| | | 7/21/10 | 8.23 | 32.4 | 467 | 85.6 |
| | | 10/13/10 | 8.19 | 31.1 | 462 | 86.5 |
| | | 1/19/11 | 8.21 | 28.9 | 447 | 87.6 |
| | | 5/4/11 | 8.27 | 30.1 | 468 | 88.1 |
| | | 7/6/11 | 8.17 | 30.8 | 468 | 85 |
| | | 10/5/11 | 8.43 | 30.0 | 505 | 89.355 |
| | | 1/12/12 | 8.52 | 29.5 | 329 | 92.92 |
| | | 5/7/12 | 8.32 | 30.6 | 439 | 91.70 |
| | | 8/13/12 | 8.31 | 28.8 | 451 | 91.22 |
| | | 8/13/12 DUP | 8.31 | 28.8 | 451 | 91.48 |
| | | 10/23/12 | 8.86 | 28.5 | 436 | 94.65 |
| | | 2/21/13 | 7.97 | 28.4 | 384 | 90.93 |
| | | 4/10/13 | 8.46 | 29.3 | 362 | 93.24 |
| | | 7/10/13 | 8.59 | 26.6 | 344 | 66.70 |
| | | 10/22/13 | 9.51 | 25.6 | 292 | 63.1 |
| | | 1/10/14 | 9.64 | 24.2 | 310 | 63.4 |
| | | 4/8/14 | 9.52 | 26.2 | 344 | 61.8 |
| | | 7/8/14 | 9.60 | 26.4 | 446 | 55.4 |
| | | 11/12/14 | 9.36 | 25.8 | 357 | 52.9 |
| | | 1/14/15 | 9.79 | 26.3 | 448 | 65.0 |
| | | 4/15/15 | 8.15 | 27.9 | 388 | 77.3 |
| | | 7/8/15 | 8.10 | 26.6 | 439 | 64.3 |
| | | 10/22/15 | 9.64 | 26.2 | 446 | 56.1 |
| MO-2007-5B | 907456 | 1/7/08 | 7.96 | 26.7 | 1138 | NA |
| | | 4/17/08 | 7.94 | 27.7 | 877 | 390 |
| | | 7/24/08 | 7.86 | 31.1 | 1040 | 343 |
| | | 10/23/08 | 7.87 | 26.8 | 1086 | 412 |
| | | 1/21/09 | 7.92 | 29.4 | 1049 | 400 |
| | | 4/2/09 | 8.15 | 30.6 | 958 | 366 |
| | | 1/25/10 | 7.98 | 28.8 | 1010 | 462 |
| | | 4/27/10 | 7.90 | 29.3 | 987 | 427 |
| | | 12/10/10 | 7.92 | 27.1 | 1215 | 454 |
| | | 6/24/11 | 7.98 | 31.0 | 1199 | 513 |
| | | 11/21/11 | 7.98 | 27.2 | 1249 | 494.3 |
| | | 6/20/12 | 7.62 | 30.0 | 1465 | 519.3 |
| | | 11/6/12 | 7.53 | 26.6 | 1420 | 453.9 |
| | | 6/12/13 | 8.07 | 27.8 | 1036 | 430 |
| | | 10/24/13 | 7.89 | 26.4 | 783 | 430 |
| | | 4/29/14 | 8.19 | 27.4 | 1018 | 447 |
| | | 10/15/14 | 8.90 | 26.4 | 924 | 440 |
| | | 4/28/15 | 8.04 | 27.7 | 1330 | 502 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-5C | 907457 | 8/23/07 | 7.46 | 31.4 | 780 | 248 |
| | | 1/7/08 | 8.26 | 27.0 | 851 | NA |
| | | 4/17/08 | 8.34 | 29.7 | 680 | 259 |
| | | 7/24/08 | 8.30 | 31.3 | 746 | 233 |
| | | 10/23/08 | 9.11 | 30.2 | 728 | 257 |
| | | 1/23/09 | 9.30 | 21.1 | 710 | 222 |
| | | 5/13/09 | 7.64 | 31.4 | 715 | 235 |
| | | 10/27/09 | 7.55 | 30.1 | 651 | 238 |
| | | 4/27/10 | 7.17 | 32.3 | 663 | 245 |
| | | 4/27/10 DUP | 7.17 | 32.3 | 663 | 248 |
| | | 12/10/10 | 7.95 | 30.5 | 709 | 251 |
| | | 5/24/11 | 7.76 | 29.7 | 682 | 238 |
| | | 11/21/11 | 8.58 | 26.4 | 780 | 235.98 |
| | | 6/18/12 | 8.35 | 30.0 | 816 | 238.89 |
| | | 11/6/12 | 8.43 | 26.3 | 763 | 262.57 |
| | | 6/13/13 | 8.88 | 25.8 | 704 | 251 |
| | | 11/12/13 | 8.86 | 26.1 | 653 | 210 |
| | | 5/6/14 | 8.92 | 26.2 | 565 | 183 |
| | | 10/15/14 | 9.34 | 25.5 | 591 | 155 |
| | | 4/29/15 | 9.25 | 26.9 | 710 | 167 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-6A | 907607 | 1/22/08 | 7.84 | 26.5 | 380 | 30 |
| | | 1/22/08 DUP | 7.84 | 26.5 | 380 | 30 |
| | | 4/18/08 | 7.61 | 27.2 | 346 | 20.5 |
| | | 7/24/08 | 7.47 | 28.3 | 390 | 16.9 |
| | | 10/23/08 | 7.49 | 25.8 | 388 | 18.6 |
| | | 1/22/09 | 7.48 | 26.2 | 364 | 26.9 |
| | | 4/2/09 | 7.88 | 25.5 | 378 | 23.7 |
| | | 7/22/09 | 7.47 | 29.5 | 373 | 19.8 |
| | | 10/26/09 | 7.52 | 27.9 | 349 | 23.5 |
| | | 1/20/10 | 7.66 | 26.2 | 343 | 24.6 |
| | | 4/21/10 | 7.59 | 27.3 | 375 | 34.7 |
| | | 8/10/10 | 7.86 | 31.2 | 386 | 26.8 |
| | | 10/26/10 | 7.74 | 28.3 | 381 | 33.9 |
| | | 1/18/11 | 7.71 | 26.7 | 376 | 30.2 |
| | | 5/5/11 | 7.59 | 29.0 | 384 | 29.2 |
| | | 7/7/11 | 7.72 | 29.1 | 397 | 36.6 |
| | | 7/7/11 DUP | 7.72 | 29.1 | 397 | 37.1 |
| | | 10/6/11 | 8.05 | 25.8 | 402 | 34.109 |
| | | 1/11/12 | 7.47 | 26.8 | 234 | 43.51 |
| | | 1/11/12 DUP | 7.47 | 26.8 | 234 | 42.97 |
| | | 6/12/12 | 7.65 | 28.2 | 389 | 34.98 |
| | | 8/13/12 | 7.84 | 29.2 | 362 | 36.91 |
| | | 10/18/12 | 7.77 | 28.8 | 368 | 30.42 |
| | | 1/8/13 | 7.70 | 27.6 | 354 | 25.17 |
| | | 4/9/13 | 8.04 | 28.5 | 329 | 32.44 |
| | | 4/9/13 DUP | 8.04 | 28.5 | 329 | 32.94 |
| | | 7/10/13 | 8.20 | 27.9 | 270 | 18.30 |
| | | 10/22/13 | 8.44 | 28.0 | 153 | 10.4 |
| | | 1/6/14 | 8.24 | 36.5 | 330 | 19.3 |
| | | 4/9/14 | 8.71 | 26.6 | 210 | 5.74 |
| | | 7/8/14 | 8.15 | 28.3 | 370 | 10.6 |
| | | 12/2/14 | 8.30 | 27.0 | 326 | 18.3 |
| | | 12/2/14 | 8.30 | 27.0 | 326 | 18.3 |
| | | 1/8/15 | 8.04 | 26.7 | 176 | 13.5 |
| | | 4/16/15 | 7.89 | 27.0 | 314 | 19.6 |
| | | 7/2/15 | 7.77 | 29.3 | 414 | 28.8 |
| | | 7/2/15 DUP | 7.77 | 29.3 | 414 | 28.6 |
| | | 10/19/15 | 8.03 | 28.3 | 340 | 17.4 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2007-6B | 907606 | 1/21/08 | 8.13 | 29.8 | 467 | 80 |
| | | 4/17/08 | 8.09 | 29.9 | 453 | 90.4 |
| | | 7/24/08 | 8.00 | 33.8 | 473 | 81.5 |
| | | 10/23/08 | 8.01 | 28.9 | 446 | 63.2 |
| | | 1/22/09 | 7.45 | 29.9 | 443 | 84.5 |
| | | 4/2/09 | 8.08 | 27.7 | 444 | 75.7 |
| | | 7/22/09 | 7.86 | 32.7 | 427 | 63.5 |
| | | 10/26/09 | 7.90 | 30.5 | 398 | 62.1 |
| | | 1/20/10 | 8.05 | 27.4 | 406 | 69.7 |
| | | 4/21/10 | 7.95 | 29.5 | 380 | 57.9 |
| | | 4/21/10 DUP | 7.95 | 29.5 | 380 | 57.9 |
| | | 8/10/10 | 7.86 | 31.2 | 438 | 68.8 |
| | | 8/10/10 DUP | 7.86 | 31.2 | 438 | 68.6 |
| | | 10/26/10 | 7.89 | 30.8 | 399 | 57.7 |
| | | 1/18/11 | 7.85 | 30.4 | 396 | 58.5 |
| | | 5/5/11 | 7.84 | 32.8 | 404 | 57.2 |
| | | 7/7/11 | 7.88 | 32.8 | 405 | 57.5 |
| | | 10/6/11 | 8.08 | 27.0 | 405 | 55.342 |
| | | 1/11/12 | 7.57 | 29.9 | 235 | 57.78 |
| | | 6/12/12 | 7.62 | 31.5 | 399 | 55.99 |
| | | 8/13/12 | 7.61 | 32.2 | 374 | 56.54 |
| | | 10/18/12 | 7.82 | 29.8 | 383 | 50.70 |
| | | 1/8/13 | 7.68 | 27.2 | 380 | 37.31 |
| | | 4/9/13 | 8.03 | 29.8 | 361 | 54.72 |
| | | 7/10/13 | 8.80 | 28.1 | 306 | 42.00 |
| | | 10/22/13 | 8.79 | 29.6 | 261 | 65.6 |
| | | 10/22/13 DUP | 8.79 | 29.6 | 261 | 66.8 |
| | | 1/6/14 | 9.16 | 26.4 | 510 | 91.5 |
| | | 4/9/14 | 9.04 | 27.3 | 310 | 85.7 |
| | | 7/8/14 | 9.13 | 28.7 | 520 | 89.2 |
| | | 12/2/14 | 8.88 | 26.6 | 322 | 82.3 |
| | | 1/8/15 | 8.76 | 27.3 | 294 | 84.2 |
| | | 4/16/15 | 9.03 | 26.0 | 303 | 64.3 |
| | | 7/2/15 | 8.67 | 26.4 | 443 | NS |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| MO-2009-1 | 910458 | 4/24/09 | 7.23 | 31.3 | 397 | 62.1 |
| | | 7/29/09 | 8.18 | 32.9 | 495 | 97.7 |
| | | 7/29/09 DUP | 8.18 | 32.9 | 495 | 96.4 |
| | | 11/3/09 | 8.17 | 29.5 | 513 | 109 |
| | | 1/25/10 | 8.23 | 29.2 | 481 | 82.1 |
| | | 4/20/10 | 8.21 | 30.4 | 467 | 99 |
| | | 8/10/10 | 8.23 | 31.4 | 528 | 109 |
| | | 12/15/10 | 8.29 | 29.0 | 504 | 95 |
| | | 12/15/10 DUP | 8.29 | 29.0 | 504 | 94 |
| | | 2/2/11 | 8.69 | 26.9 | 432 | 92 |
| | | 6/16/11 | 8.30 | 32.7 | 468 | 102 |
| | | 8/31/11 | 8.33 | 31.1 | 560 | 108 |
| | | 12/1/11 | 8.57 | 28.9 | 479 | 91.82 |
| | | 1/11/12 | 8.18 | 29.9 | 292 | 93.84 |
| | | 5/9/12 | 8.47 | 25.8 | 479 | 97.69 |
| | | 8/15/12 | 8.47 | 32.7 | 454 | 102.4 |
| | | 11/29/12 | 8.64 | 26.5 | 480 | 94.26 |
| | | 1/8/13 | 8.79 | 27.0 | 522 | 98.57 |
| | | 4/10/13 | 8.67 | 29.8 | 403 | 105.80 |
| | | 7/11/13 | 8.67 | 27.9 | 450 | 118.00 |
| | | 10/16/13 | 8.62 | 27.6 | 526 | 115 |
| | | 1/6/14 | 9.68 | 24.4 | 451 | 89.3 |
| | | 4/24/14 | 8.55 | 29.8 | 499 | 98.2 |
| | | 7/8/14 | 9.25 | 26.8 | 493 | 81.1 |
| | | 7/8/14 DUP | 9.25 | 26.8 | 493 | 87.1 |
| | | 12/2/14 | 8.69 | 27.3 | 353 | 89.8 |
| | | 1/13/15 | 8.90 | 26.7 | 226 | 31.2 |
| | | 4/15/15 | 8.44 | 27.3 | 488 | 104.0 |
| | | 7/7/15 | 8.73 | 27.6 | 494 | 78.1 |
| | | 10/20/15 | 9.37 | 25.6 | 584 | 68.9 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| NP-2 | 624028 | 7/18/07 | 7.30 | 23.2 | 816 | NA |
| | | 6/4/07 | 7.20 | 25.9 | 411 | 41.2 |
| | | 8/13/07 | 7.16 | 26.0 | 441 | 41.7 |
| | | 1/11/08 | 7.60 | 25.0 | 760 | 43.5 |
| | | 1/11/08 DUP | 7.60 | 25.0 | 760 | 43.8 |
| | | 4/17/08 | 7.34 | 25.4 | 379 | 40 |
| | | 4/17/08 DUP | 7.34 | 25.4 | 379 | 33 |
| | | 7/11/08 | 7.62 | 25.9 | 455 | 40.5 |
| | | 10/6/08 | 7.57 | 25.1 | 405 | 39.7 |
| | | 2/9/09 | 7.61 | 25.3 | 337 | 42.4 |
| | | 4/24/09 | 6.89 | 24.6 | 510 | 32.1 |
| | | 9/17/09 | 6.68 | 26.6 | 414 | 40 |
| | | 12/31/09 | 7.60 | 23.6 | 387 | 40.7 |
| | | 2/17/10 | 6.35 | 24.7 | 450 | 42.0 |
| | | 2/17/10 DUP | 6.35 | 24.7 | 450 | 42.0 |
| | | 4/22/10 | 7.25 | 23.49 | 447 | 41.9 |
| | | 8/5/10 | 7.67 | 26.0 | 429 | 41.2 |
| | | 10/25/10 | 7.66 | 25.3 | 446 | 41.4 |
| | | 1/19/11 | 7.69 | 25.5 | 402 | 41.9 |
| | | 5/3/11 | 7.84 | 25.3 | 413 | 43.5 |
| | | 7/18/11 | 7.72 | 25.8 | 431 | 44.8 |
| | | 7/18/11 DUP | 7.72 | 25.8 | 431 | 44.6 |
| | | 12/5/11 | 8.11 | 23.1 | 396 | 58.63 |
| | | 3/21/12 | 7.86 | 24.9 | 337 | 64.11 |
| | | 6/18/12 | 7.83 | 26.9 | 463 | 64.90 |
| | | 8/15/12 | 8.01 | 26.3 | 357 | 65.72 |
| | | 11/29/12 | 8.02 | 24.1 | 396 | 70.13 |
| | | 2/20/13 | 7.94 | 23.6 | 376 | 69.34 |
| | | 6/17/13 | 7.96 | 25.6 | 379 | 71.6 |
| | | 8/27/13 | 7.82 | 25.4 | 337 | 64.3 |
| | | 10/30/13 | 7.57 | 24.5 | 264 | 59.6 |
| | | 1/7/14 | 7.57 | 23.7 | 329 | 63.0 |
| | | 4/23/14 | 7.80 | 24.7 | 410 | 55.2 |
| | | 7/1/14 | 7.59 | 24.6 | 448 | 48.1 |
| | | 10/13/14 | 7.98 | 25.3 | 370 | 41.1 |
| | | 10/13/14 DUP | 7.98 | 25.3 | 370 | 41.3 |
| | | 1/14/15 | 8.08 | 24.8 | 426 | 42.9 |
| PS-1 | 220861 | 2/3/14 | 7.21 | 24.7 | 2600 | 1310 |
| | | 4/14/14 | 7.56 | 27.1 | 1461 | 1250 |
| | | 7/9/14 | 6.71 | 27.4 | 2320 | 1270 |
| | | 11/10/14 | 7.39 | 26.5 | 1806 | 1150 |
| | | 1/12/15 | 7.72 | 26.6 | 1572 | 1130 |
| | | 4/1/15 | 7.64 | 27.8 | 1268 | 1140 |
| | | 7/15/15 | 7.18 | 26.6 | 2180 | 1180 |
| | | 11/3/15 | 7.63 | 26.1 | 1393 | 1150 |
| PS-2 | 220862 | 2/3/14 | 7.01 | 25.1 | 1935 | 1080 |
| | | 2/3/14 DUP | 7.01 | 25.1 | 1935 | 1090 |
| | | 4/14/14 | 7.62 | 26.6 | 1303 | 1050 |
| | | 7/9/14 | 6.79 | 27.5 | 1934 | 1120 |
| | | 11/10/14 | 7.09 | 26.5 | 1689 | 1020 |
| | | 1/12/15 | 7.71 | 25.9 | 1482 | 1000 |
| | | 4/1/15 | 7.62 | 27.8 | 1218 | 1000 |
| | | 7/15/15 | 7.51 | 26.5 | 1894 | 1040 |
| | | 11/3/15 | 7.70 | 25.7 | 1358 | 1010 |

# APPENDIX A
# Sulfate Concentration Data

| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| PS-3 | 220863 | 2/3/14 | 7.04 | 25.3 | 1810 | 975 |
| | | 4/14/14 | 7.57 | 26.7 | 1270 | 996 |
| | | 4/14/14 DUP | 7.57 | 26.7 | 1270 | 997 |
| | | 7/9/14 | 6.76 | 27.6 | 1799 | 1120 |
| | | 11/10/14 | 7.26 | 26.5 | 1658 | 1090 |
| | | 1/12/15 | 7.75 | 26.0 | 1457 | 1010 |
| | | 4/1/15 | 7.67 | 29.1 | 1184 | 1010 |
| | | 7/15/15 | 7.56 | 27.2 | 1854 | 1040 |
| | | 11/3/15 | 7.68 | 26.6 | 1337 | 983 |
| PS-4 | 220864 | 2/3/14 | 7.07 | 25.2 | 2570 | 1280 |
| | | 4/14/14 | 7.48 | 27.6 | 1393 | 1260 |
| | | 7/9/14 | 7.23 | 27.5 | 2330 | 1300 |
| | | 11/10/14 | 7.17 | 26.9 | 1923 | 1260 |
| | | 1/12/15 | 7.62 | 26.3 | 1664 | 1220 |
| | | 4/1/15 | 7.64 | 28.2 | 1306 | 1230 |
| | | 4/1/15 DUP | 7.64 | 28.2 | 1306 | 1240 |
| | | 7/15/15 | 6.69 | 27.2 | 2280 | 1240 |
| | | 11/3/15 | 7.54 | 26.6 | 1412 | 1230 |
| PZ-7 | 561870 | 11/16/06 | NM | NM | NM | 270 |
| | | 1/12/07 | 7.30 | 21.6 | 920 | 340 |
| | | 4/17/07 | 7.13 | 23.8 | 777 | 360 |
| | | 7/24/07 | 7.31 | 28.2 | 979 | 360 |
| | | 1/7/08 | 7.02 | 19.2 | 1106 | 400 |
| | | 4/28/08 | 7.09 | 27.6 | 699 | 440 |
| | | 7/11/08 | 7.29 | 24.5 | 1173 | 400 |
| | | 7/11/08 DUP | 7.29 | 24.5 | 1173 | 400 |
| | | 10/14/08 | 8.31 | 25.0 | 1300 | 420 |
| | | 1/13/09 | 7.46 | 21.6 | 5200 | 440 |
| | | 4/6/09 | 6.90 | 24.2 | 1100 | 460 |
| | | 4/23/10 | 6.12 | 20.51 | 1400 | 432 |
| | | 5/18/11 | 7.04 | 24.2 | 1463 | 472 |
| | | 5/18/11 DUP | 7.04 | 24.2 | 1463 | 470 |
| | | 6/6/12 | 6.93 | 25.9 | 1458 | 489.1 |
| | | 6/10/13 | 7.20 | 29.2 | 1038 | 500 |
| | | 4/8/14 | 7.11 | 24.0 | 966 | 428 |
| | | 4/21/15 | 7.05 | 22.8 | 822 | 434 |
| PZ-8 | 561866 | 11/14/06 | NM | NM | NM | 470 |
| | | 1/10/07 | 6.6 | 21.0 | 985 | 460 |
| | | 4/11/07 | 7.41 | 19.8 | 1074 | 540 |
| | | 7/12/07 | 7.27 | 27.3 | 935 | 450 |
| | | 1/3/08 | 7.52 | 23.1 | 1045 | 320 |
| | | 4/8/08 | 7.16 | 25.4 | 962 | 500 |
| | | 7/1/08 | 7.15 | 26.49 | 1203 | 400 |
| | | 10/8/08 | 7.22 | 28.2 | 1400 | 460 |
| | | 1/8/09 | 7.05 | 22.3 | 1000 | 330 |
| | | 4/8/09 | 6.54 | 24.1 | 900 | 280 |
| | | 4/22/10 | 6.88 | 16.3 | 1230 | 305 |
| | | 4/21/11 | 7.05 | 21.5 | 1147 | 364 |
| | | 4/25/12 | 6.41 | 24.1 | 935 | 344.9 |
| | | 6/10/13 | 7.35 | 26.7 | 943 | 380 |
| | | 4/23/14 | 7.16 | 23.7 | 1216 | 480 |
| | | 4/15/15 | 6.84 | 24.6 | 780 | 454 |

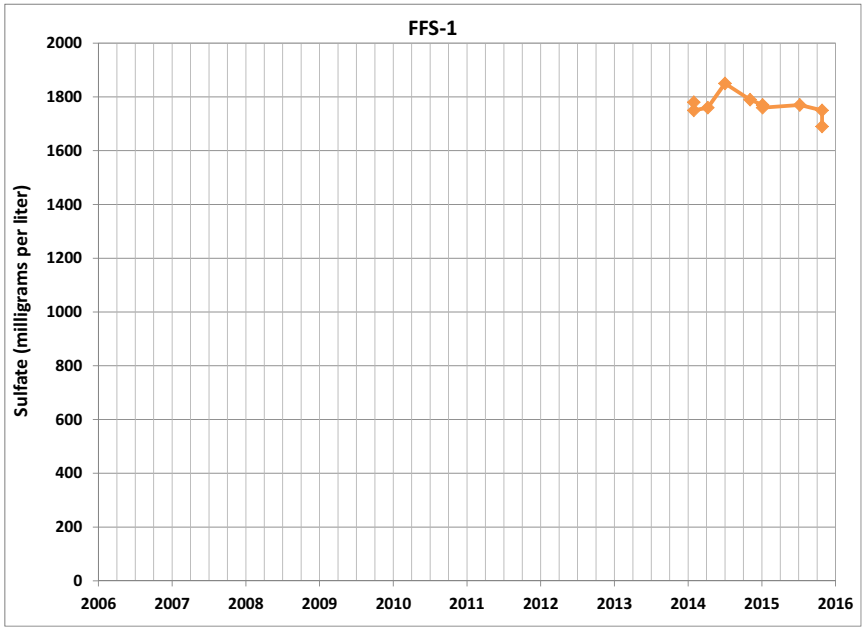
# APPENDIX A
# Sulfate Concentration Data

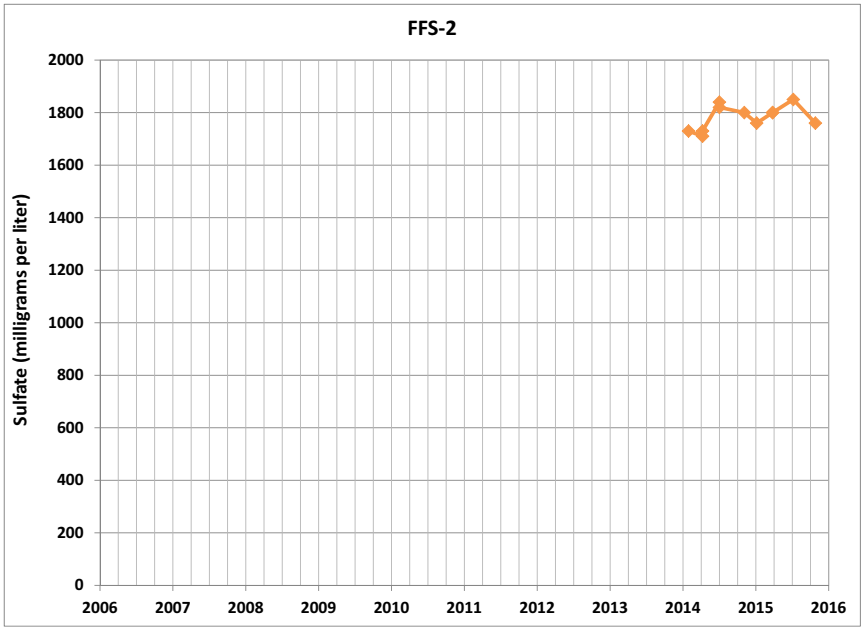
| Well Name | ADWR 55 Registry No. | Sample Date | pH (SU) | Temperature (deg C) | Specific Conductance (µS/cm) | Sulfate, Dissolved (mg/L) |
|---|---|---|---|---|---|---|
| TMM-1 | 616156 | 6/19/07 | 7.73 | 29.7 | 351 | 14.1 |
| | | 8/6/07 | 8.04 | 25.2 | 505 | <10 |
| | | 1/10/08 | 7.77 | 24.2 | 254 | <0.5 |
| | | 4/18/08 | 7.54 | 25.1 | 268 | <1 |
| | | 7/9/08 | 7.94 | 27.3 | 296 | 7.3 |
| | | 10/9/08 | 8.14 | 29.7 | 281 | <0.5 |
| | | 2/4/09 | 7.80 | 24.4 | 236 | 5.7 |
| | | 4/21/09 | 7.92 | 26.7 | 281 | 5.5 |
| | | 10/14/09 | 8.12 | 31.1 | 256 | 0.6 |
| | | 4/20/10 | 8.08 | 27.0 | 281 | 12 |
| | | 10/6/10 | 8.56 | 27.4 | 269 | <0.5 |
| | | 4/21/11 | 7.96 | 26.8 | 303 | 11.6 |
| | | 12/21/11 | 7.10 | 20.4 | 1580 | <0.5 |
| | | 5/15/12 | 8.28 | 28.8 | 32.8 | 7.93 |
| | | 11/23/12 | 7.64 | 22.8 | 479 | <0.5 |
| | | 11/23/12 DUP | 7.64 | 22.8 | 479 | <0.5 |
| | | 6/19/13 | 8.41 | 29.9 | 263 | 1.43 |
| | | 10/29/13 | 7.11 | 24.8 | 183 | <0.5 |
| | | 4/23/14 | 8.49 | 23.6 | 266 | <0.5 |

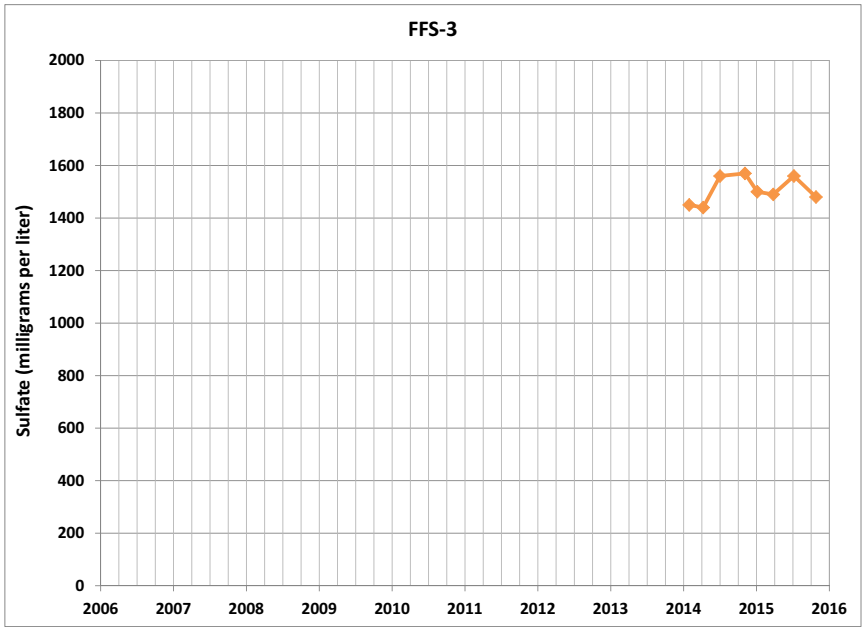
*Notes:*
*ADWR = Arizona Department of Water Resources*
*SU = Standard Units*
*deg C = degrees Celsius*
*µS/cm = microsiemens per centimeter*
*mg/L = milligrams per Liter*
*NA = not analyzed*
*NM = not measured*
*NS = no sample*
*DUP = Duplicate sample*

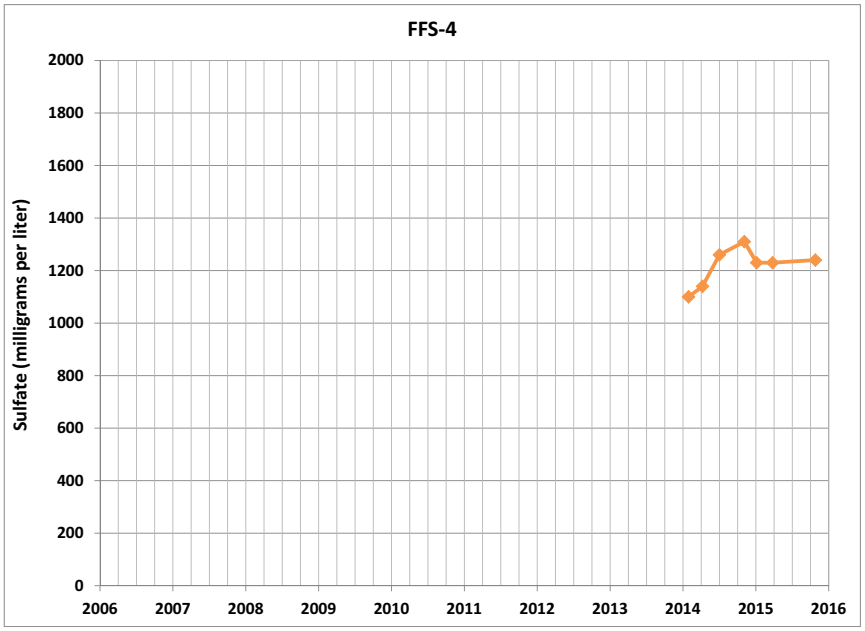
# APPENDIX B

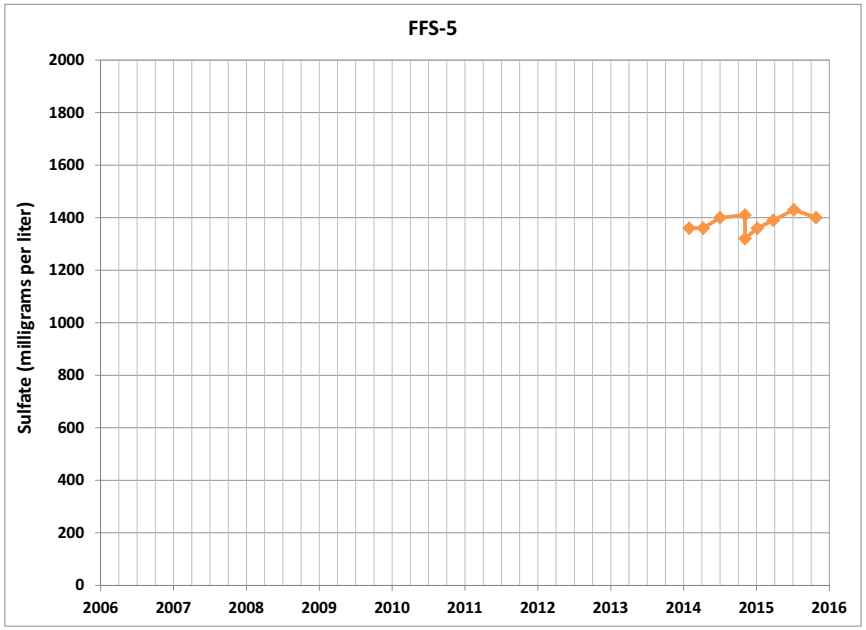
## GRAPHS OF SULFATE OVER TIME IN EXTRACTION WELLS (ALPHABETIC BY WELL NAME)

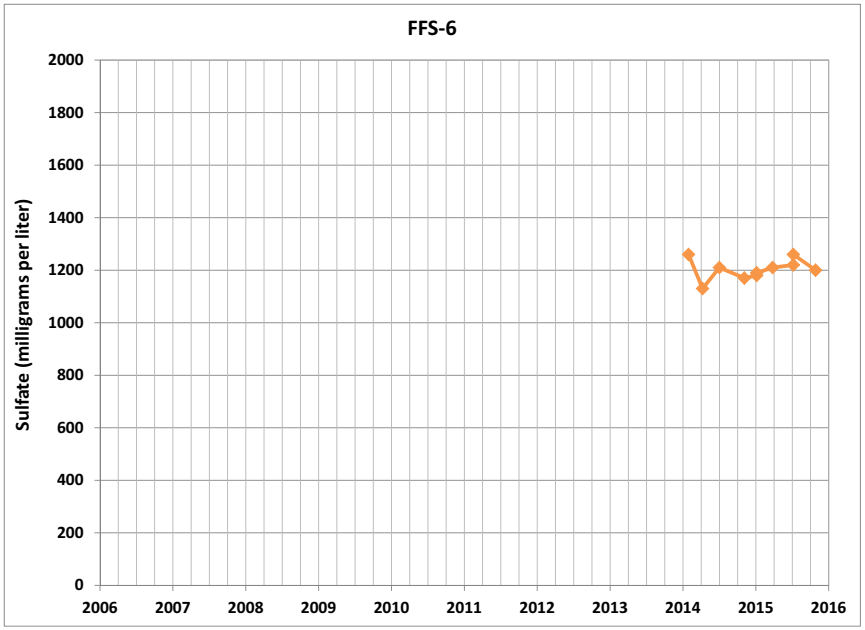

FFS-1
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

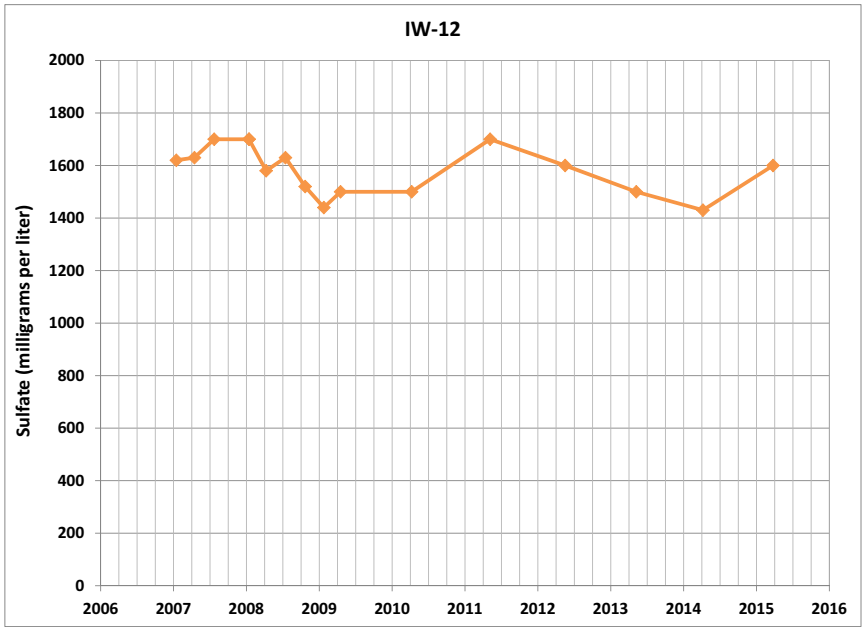

FFS-2
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

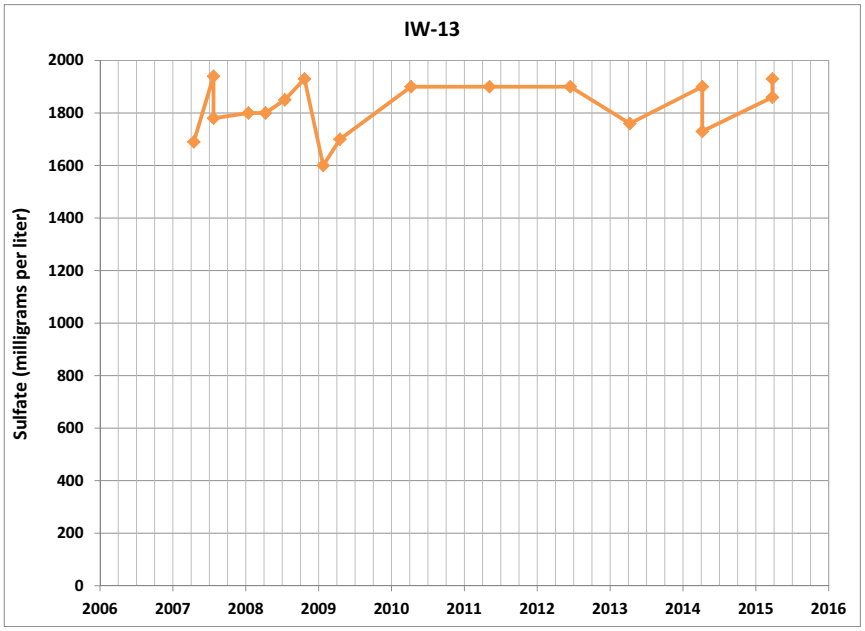

FFS-3
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

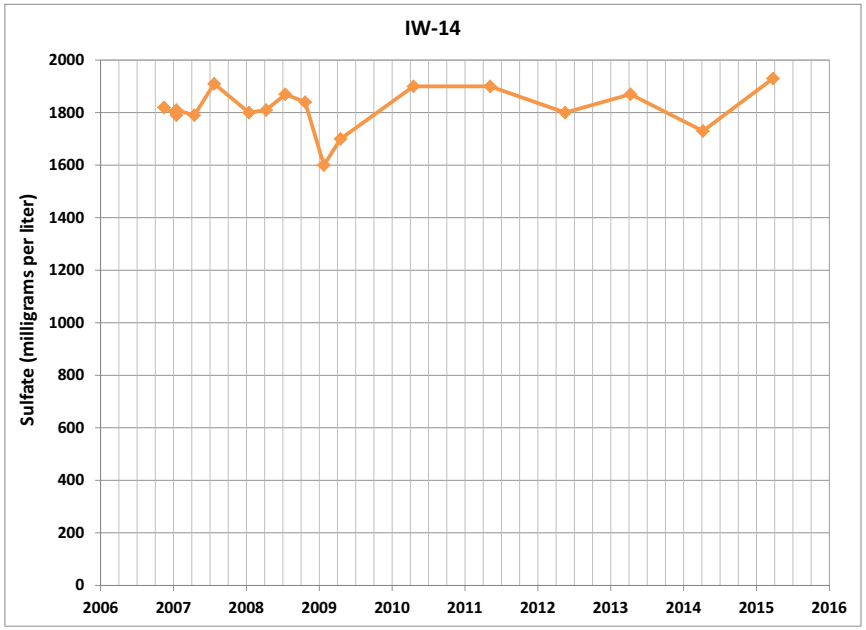

FFS-4
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

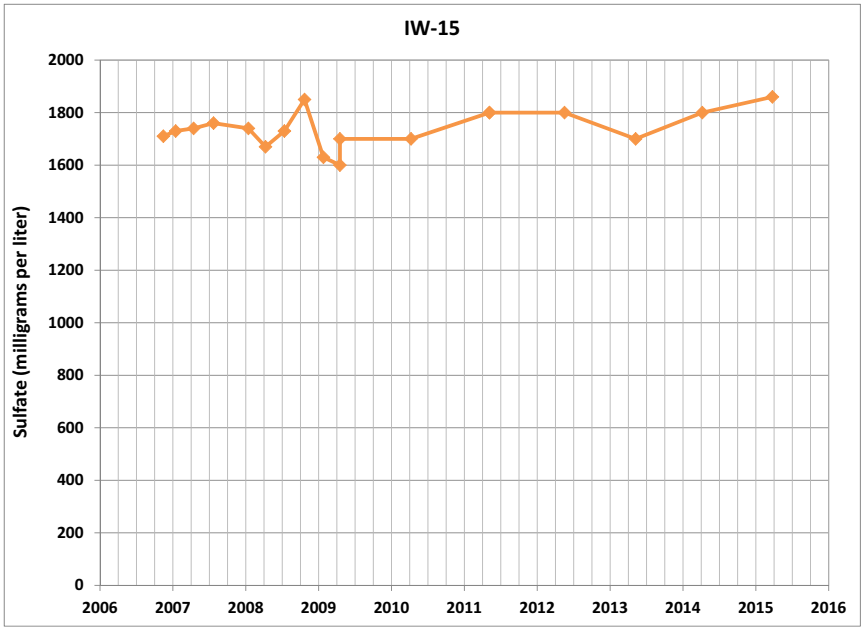

FFS-5
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

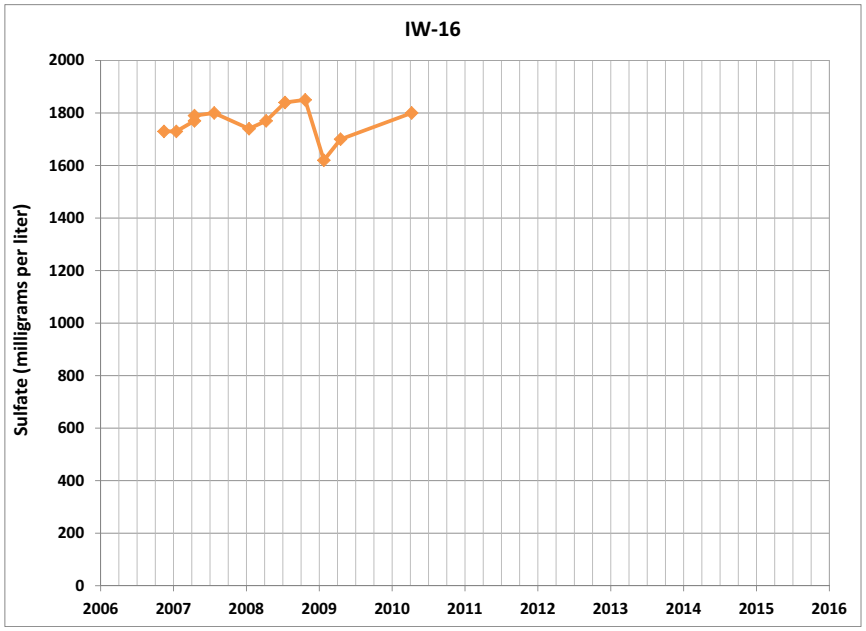

FFS-6
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

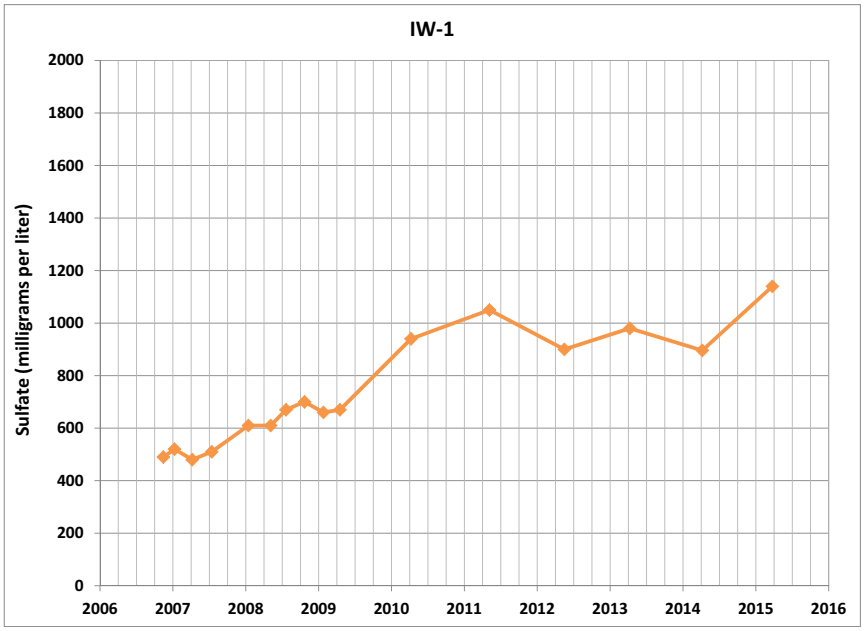

IW-12
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

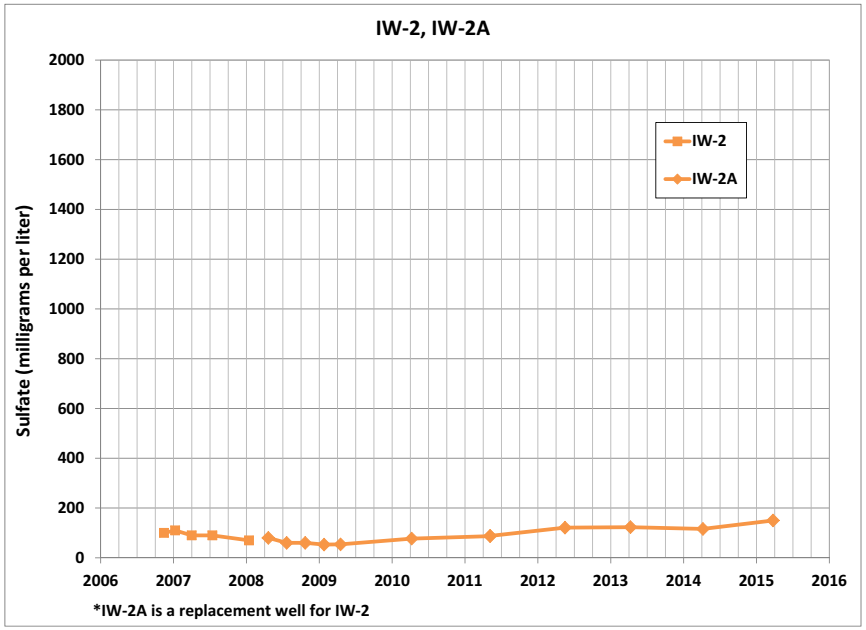

IW-13
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

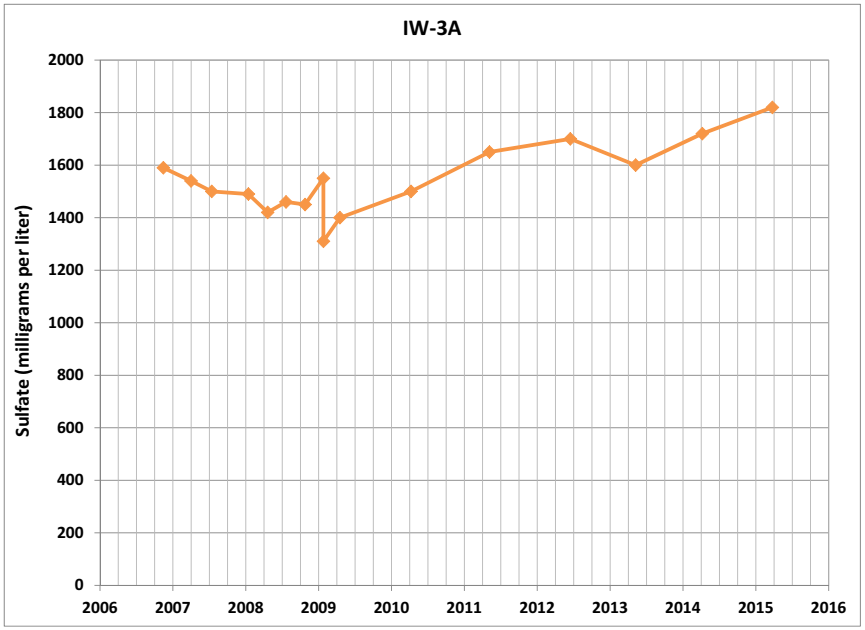

IW-14
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

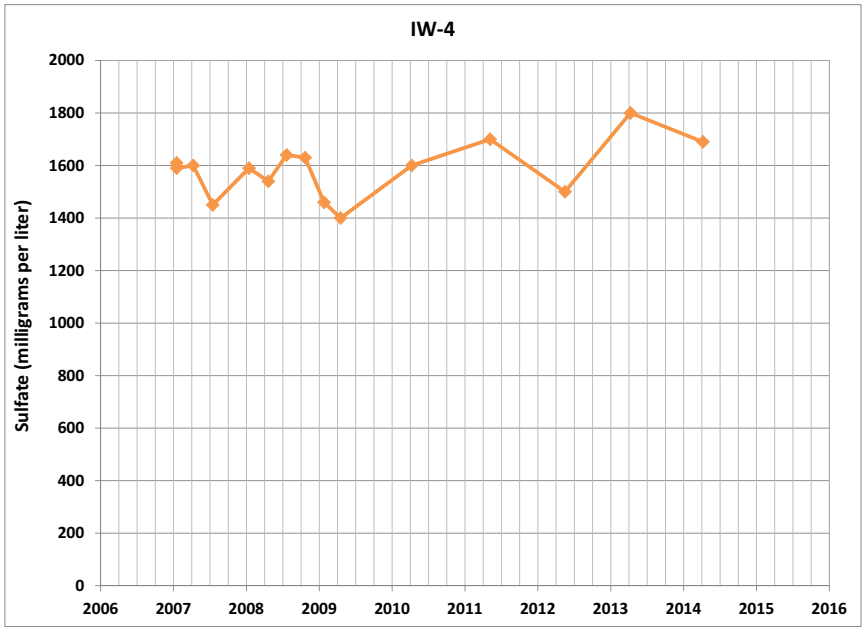

IW-15
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

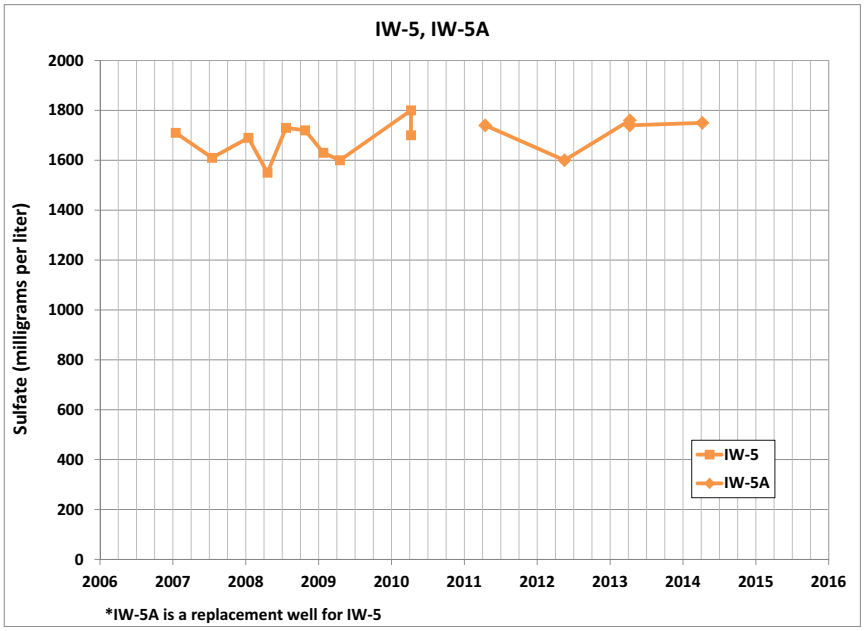

IW-16
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

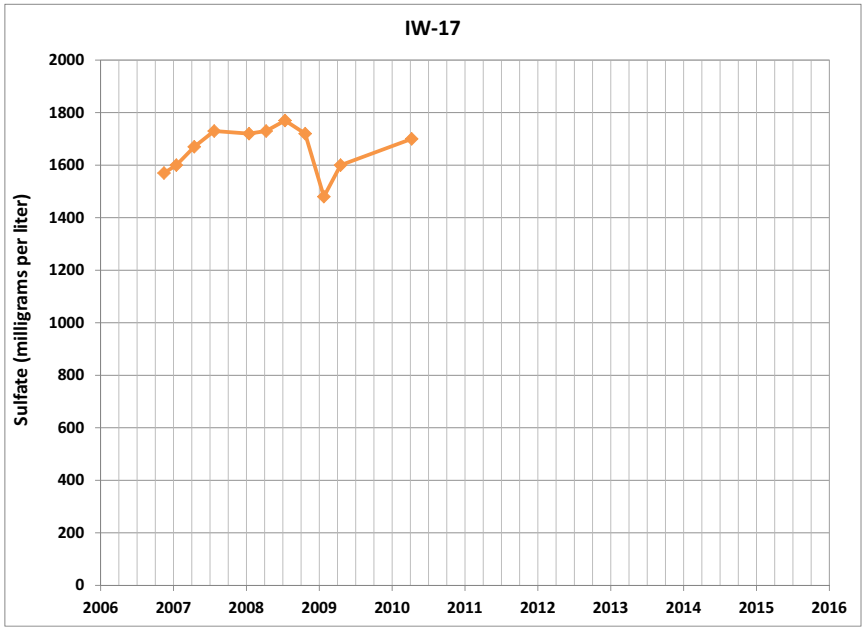

IW-1
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

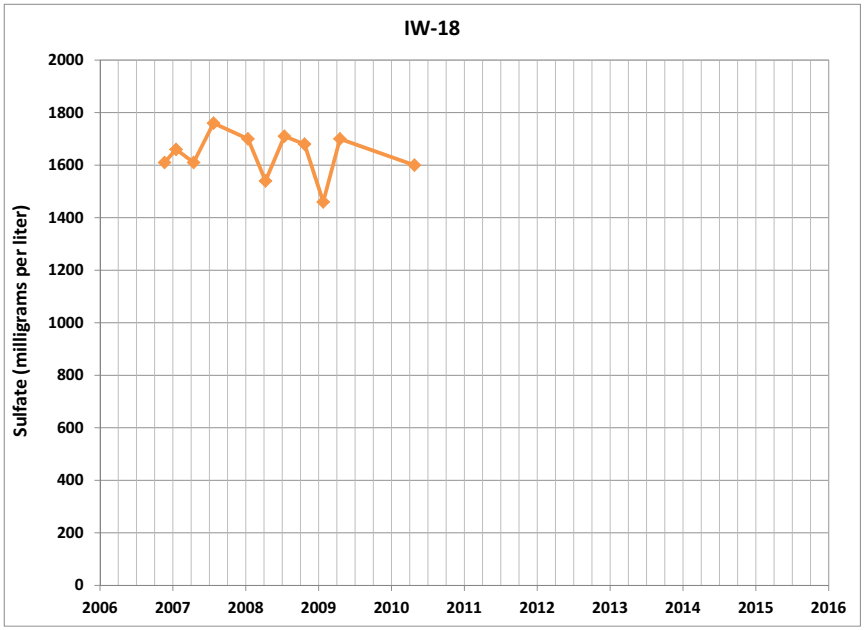

IW-2, IW-2A
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
IW-2
IW-2A
*IW-2A is a replacement well for IW-2

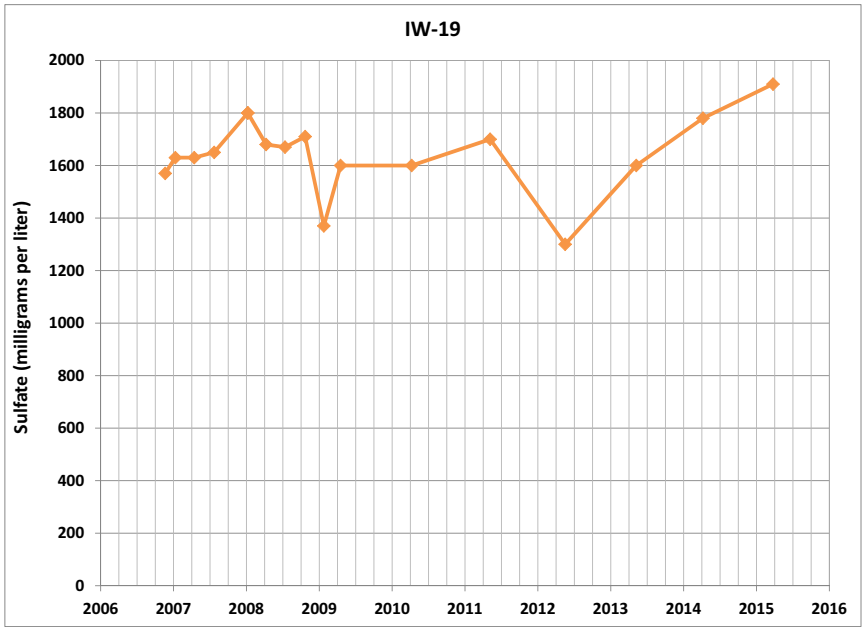

IW-3A
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

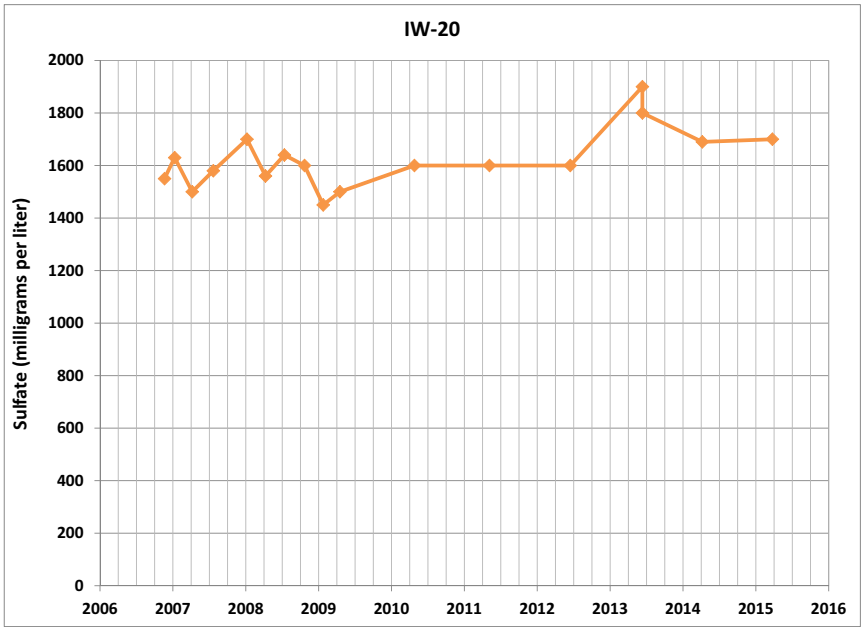

IW-4
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

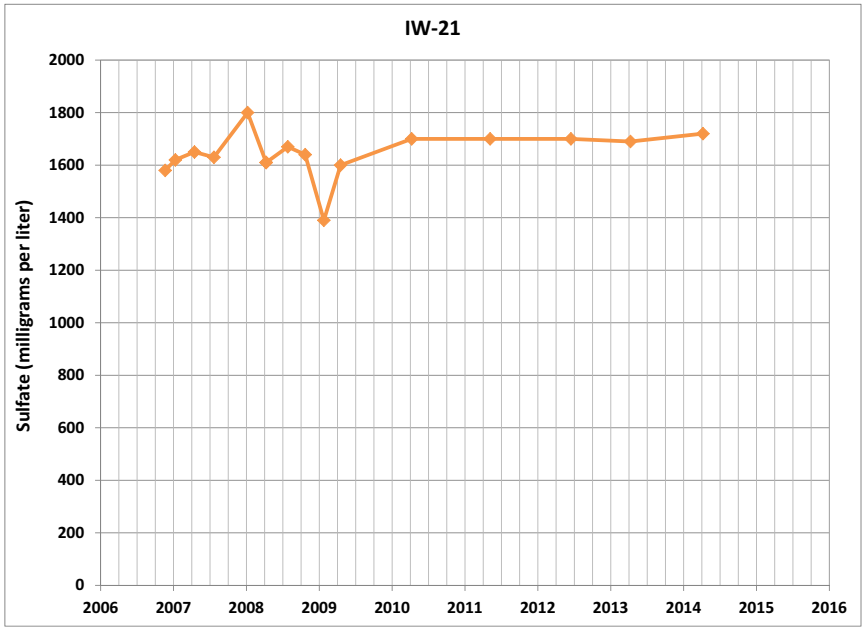

IW-5, IW-5A
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
IW-5
IW-5A
*IW-5A is a replacement well for IW-5

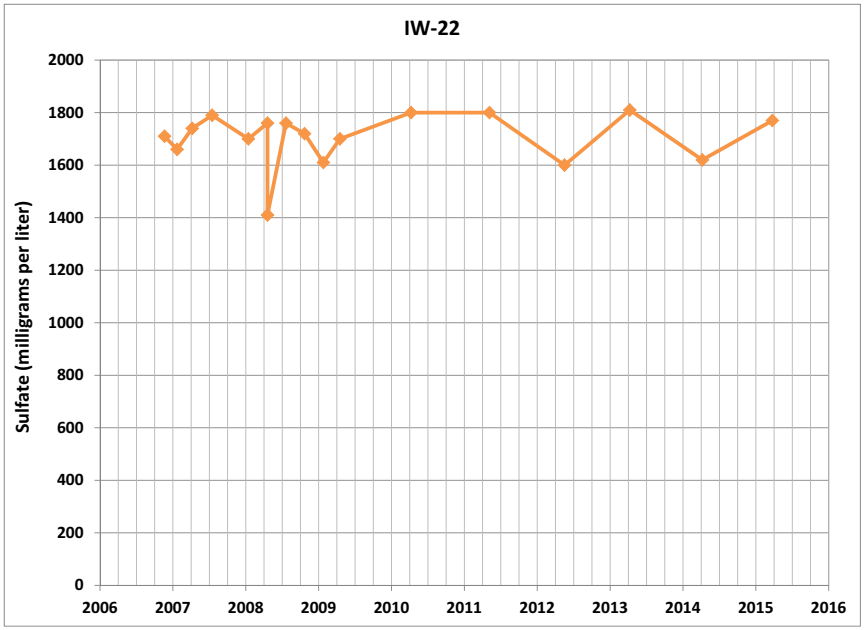

IW-17
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

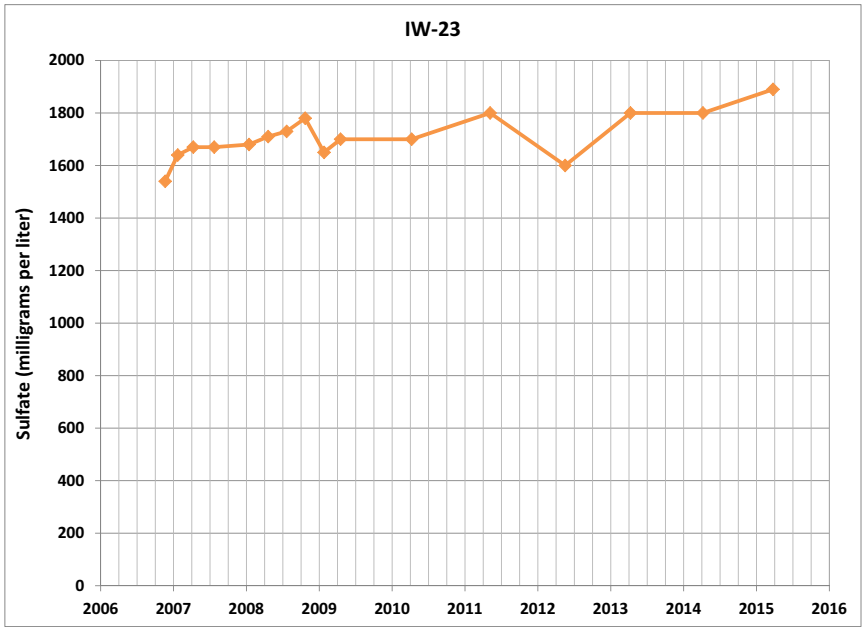

IW-18
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

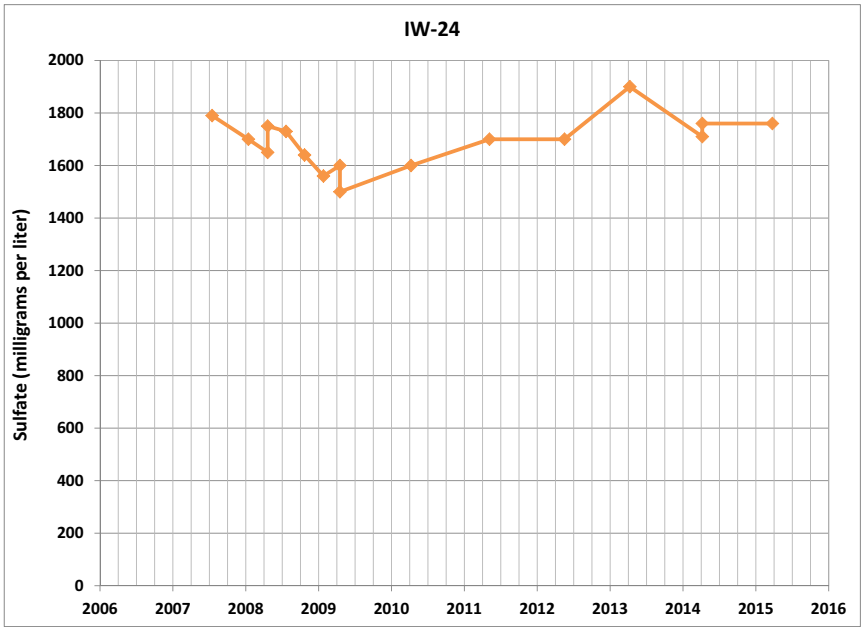

IW-19
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

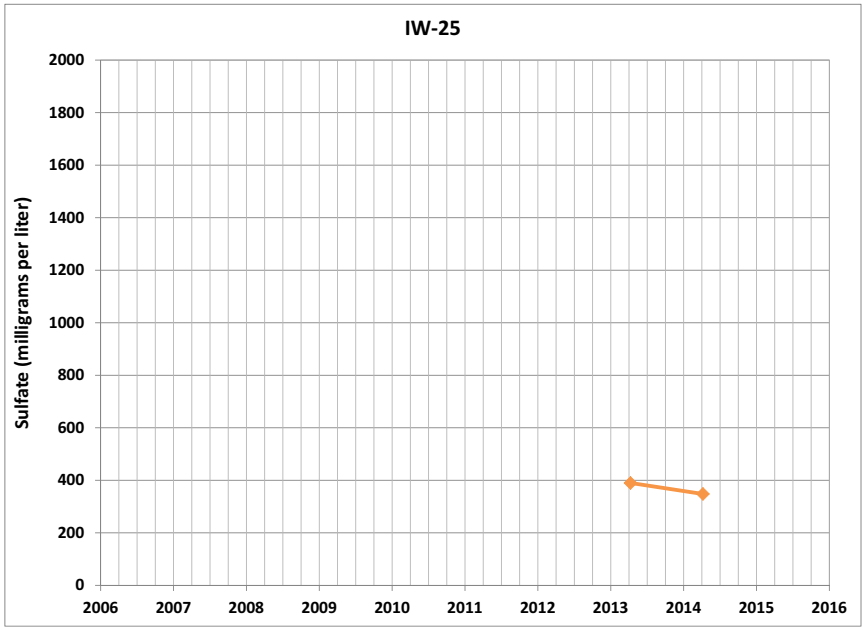

IW-20
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

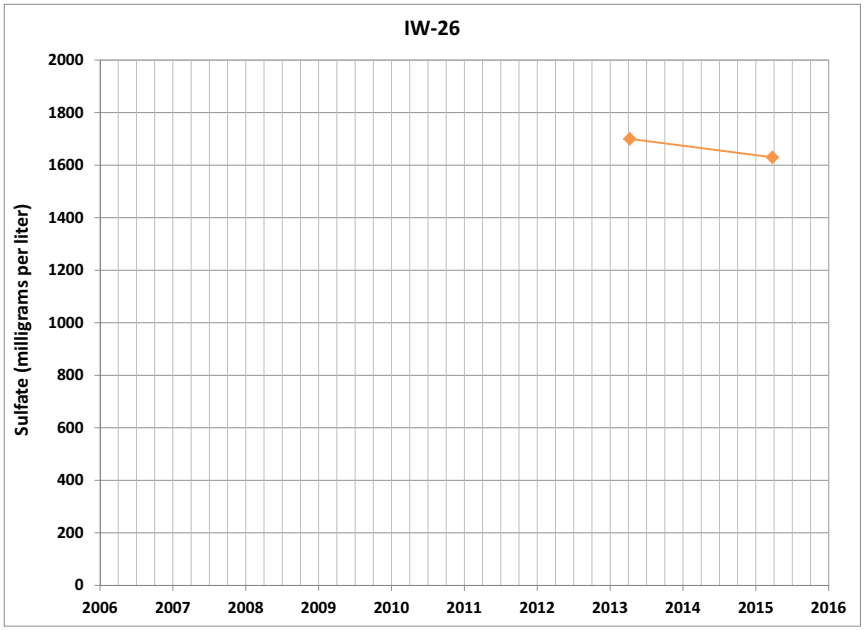

IW-21
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

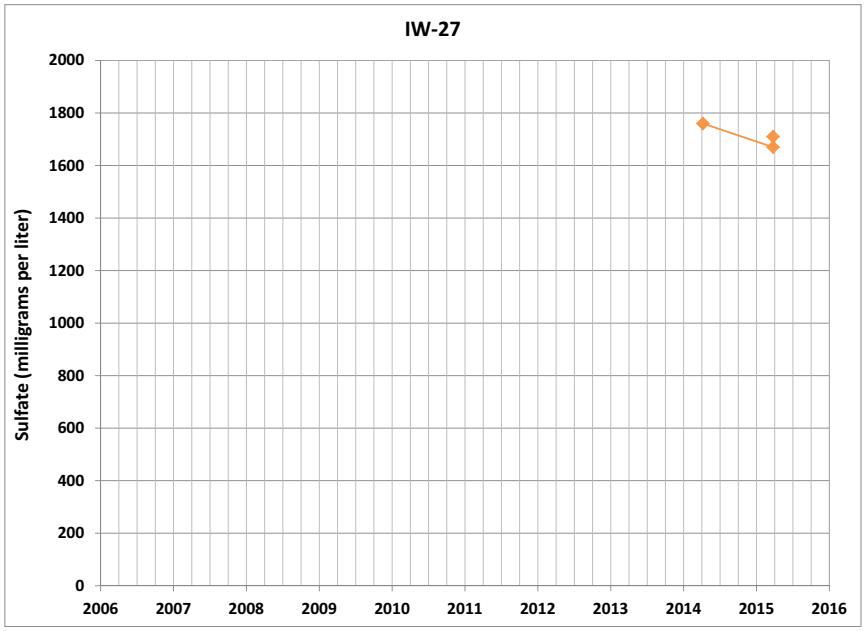

IW-22
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

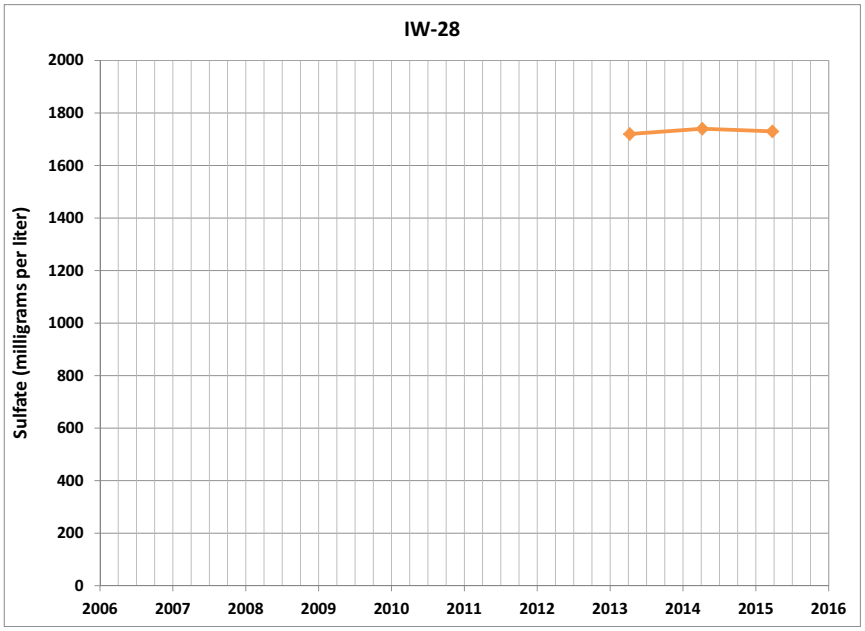

IW-23
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

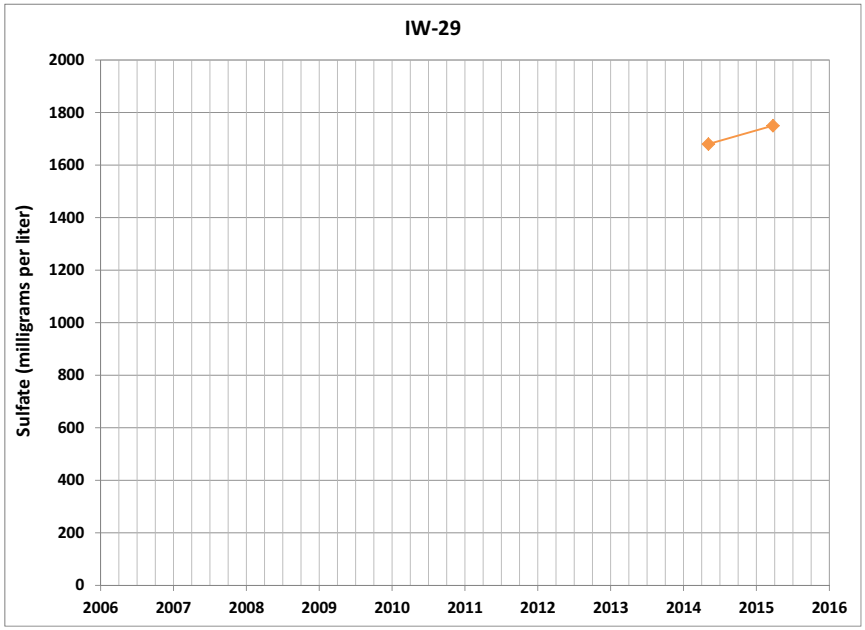

IW-24
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

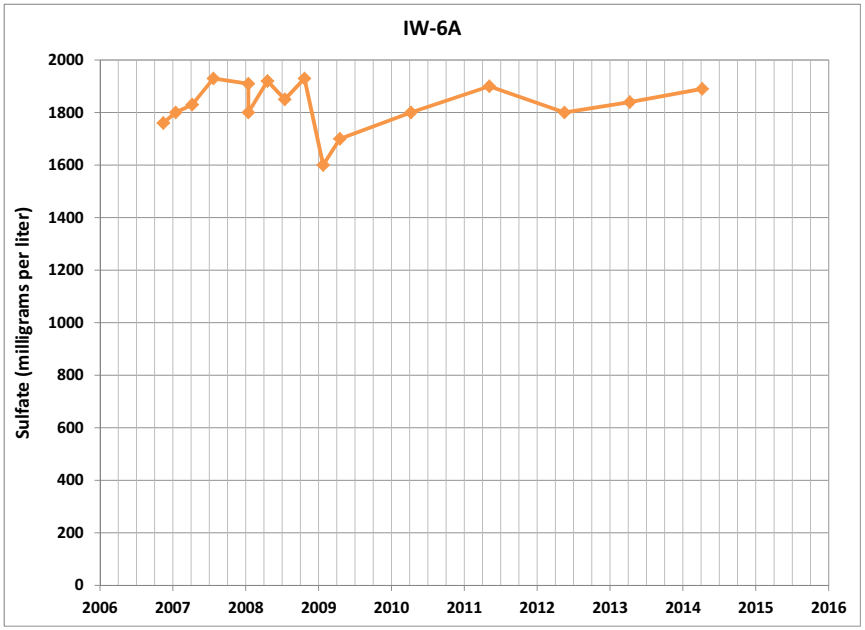

IW-25
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

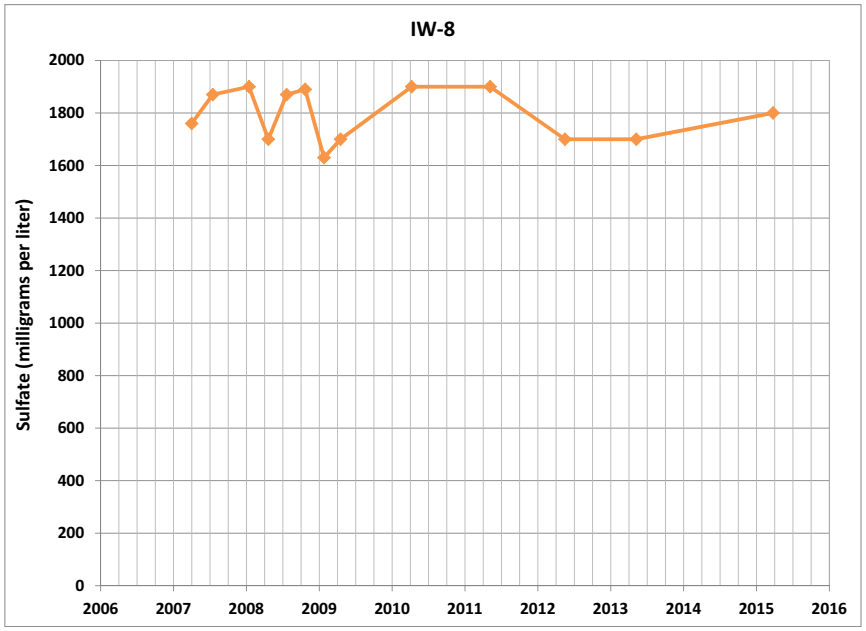

IW-26
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

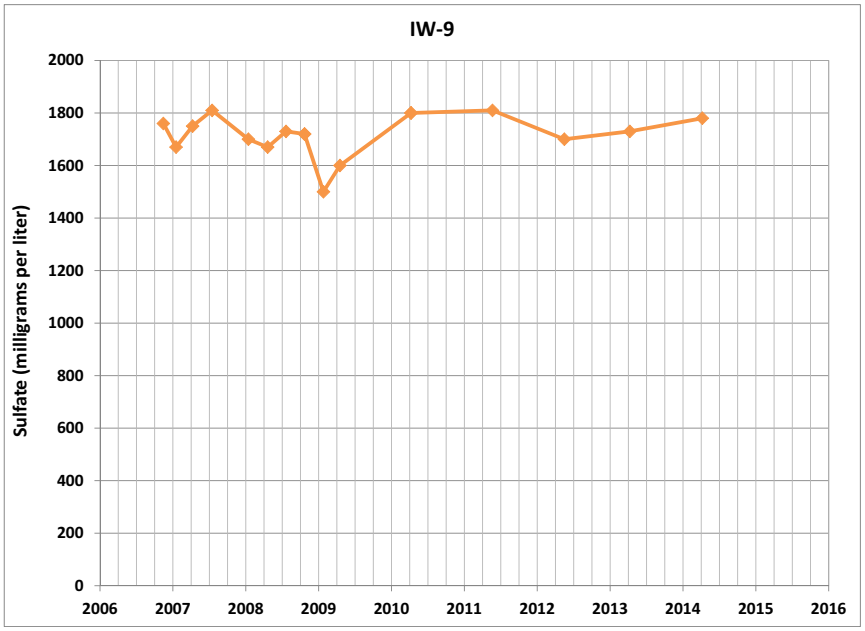

IW-27
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

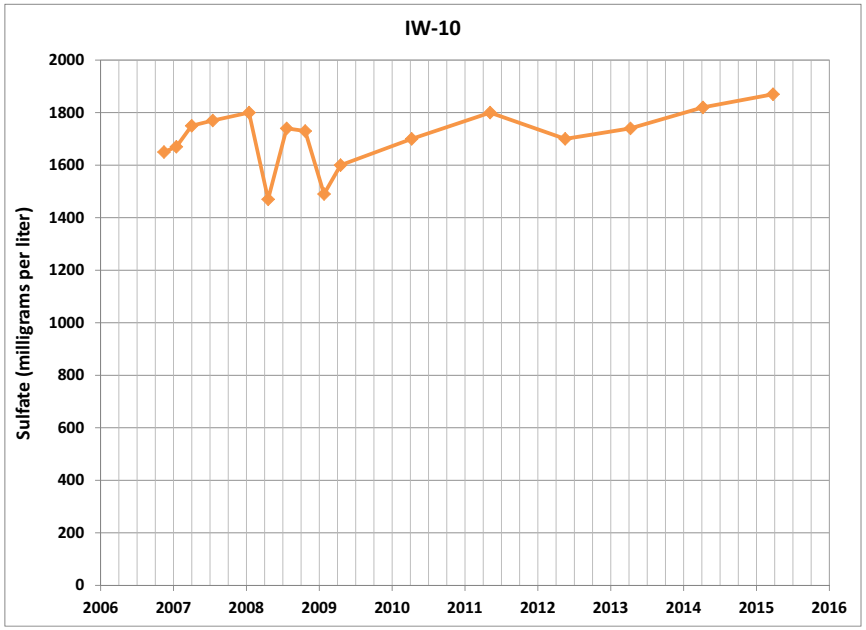

IW-28
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

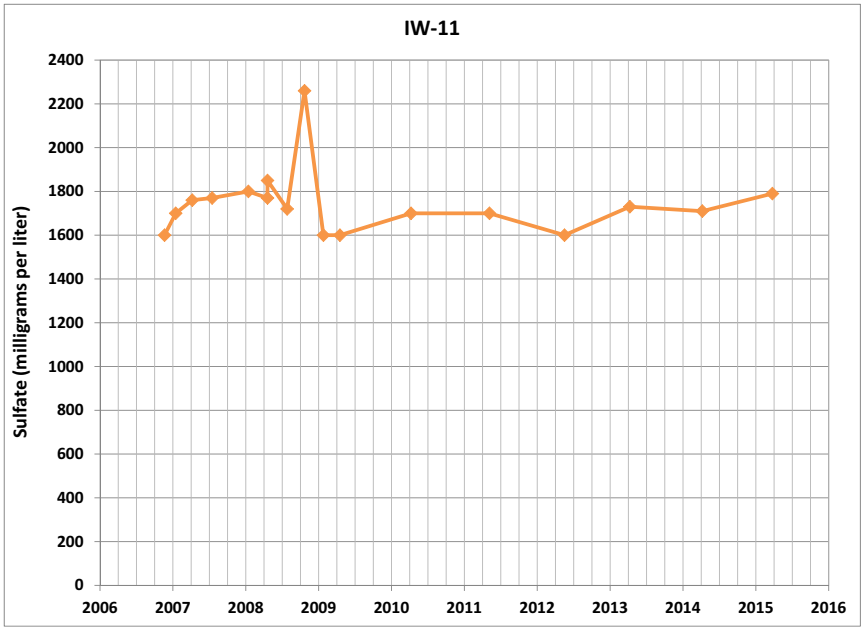

IW-29
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

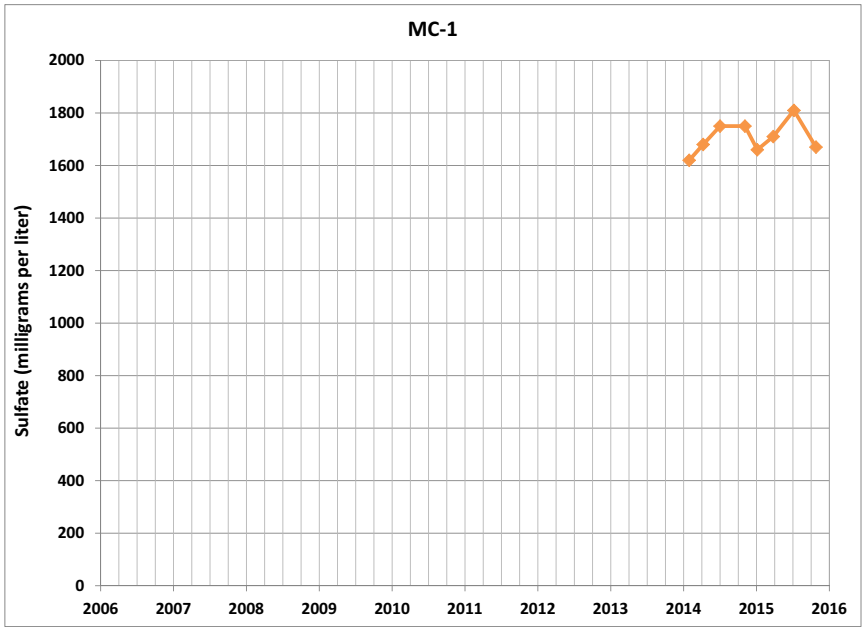

IW-6A
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

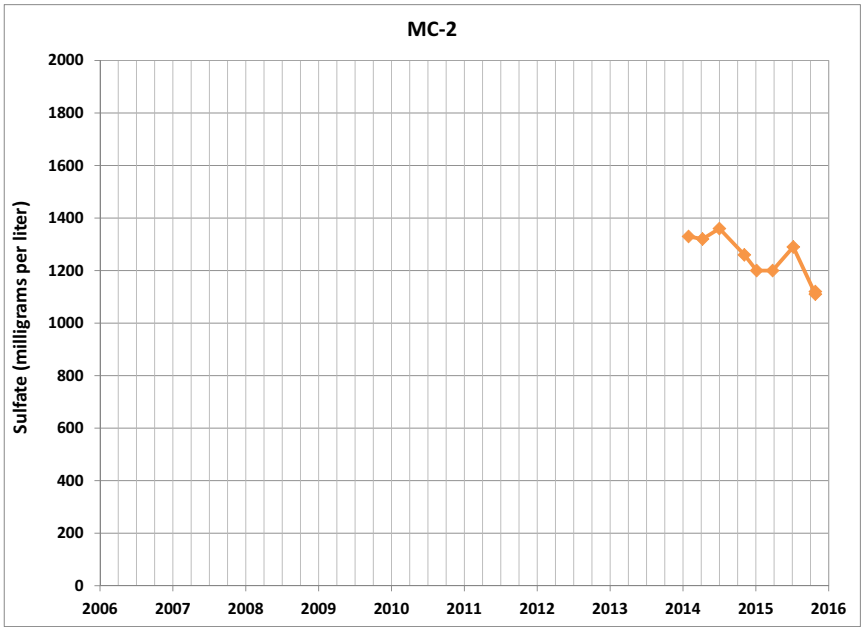

IW-8
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

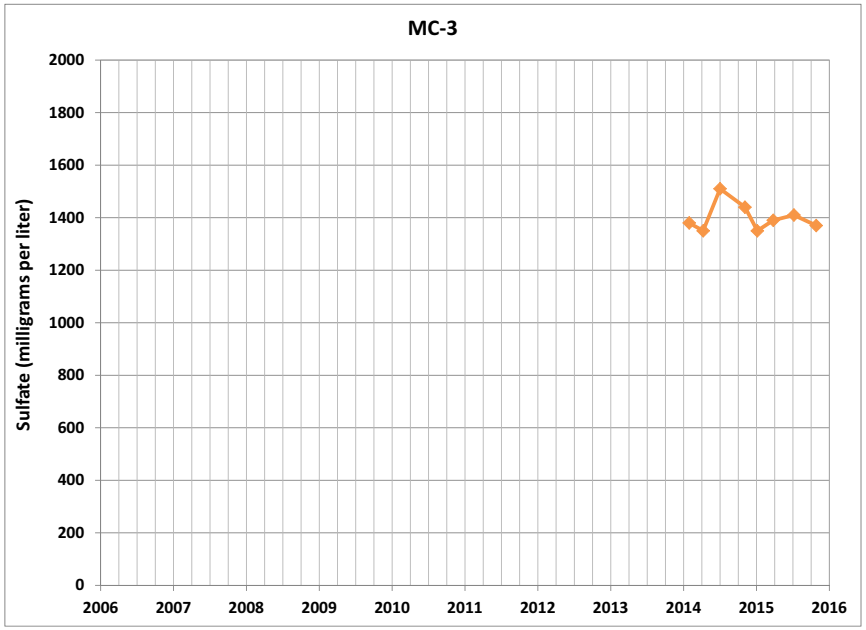

IW-9
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

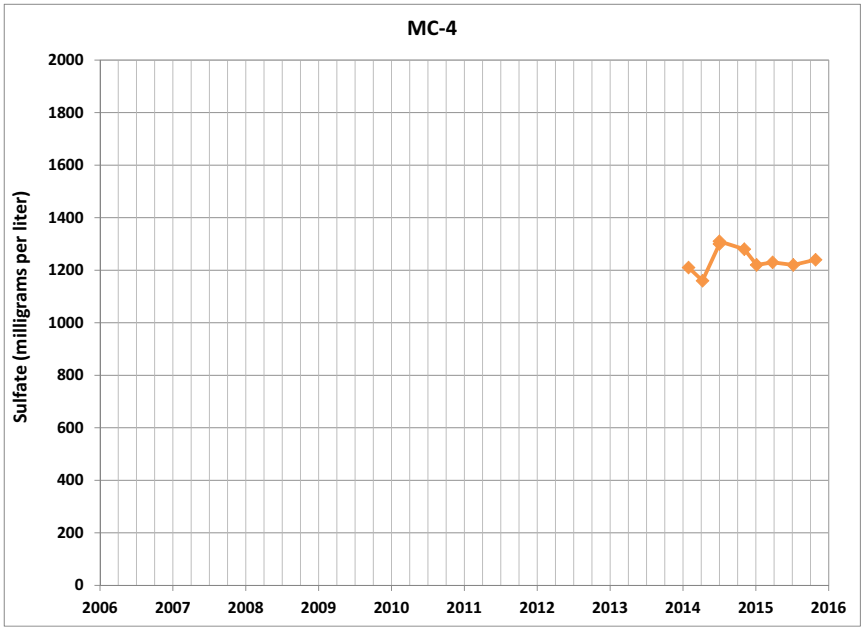

IW-10
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

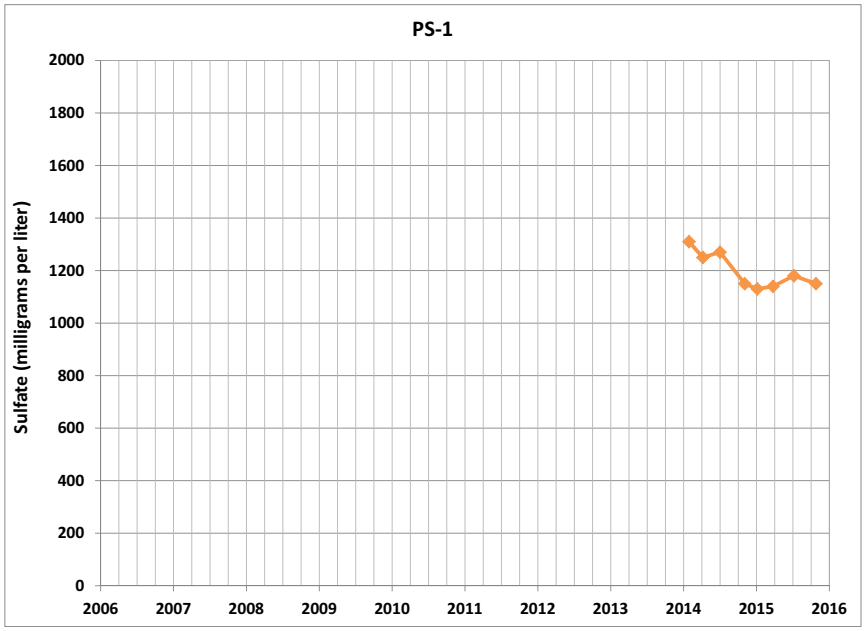

IW-11
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

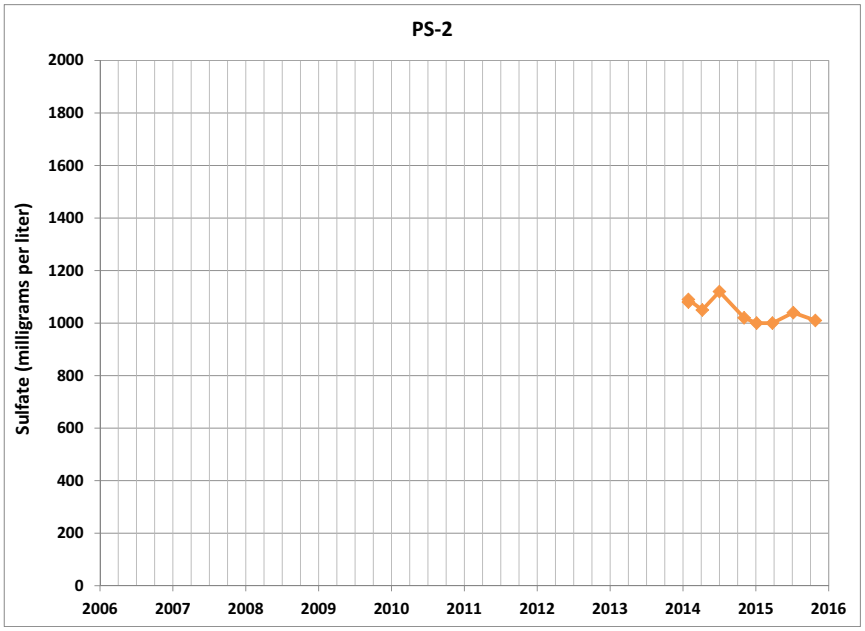

MC-1
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

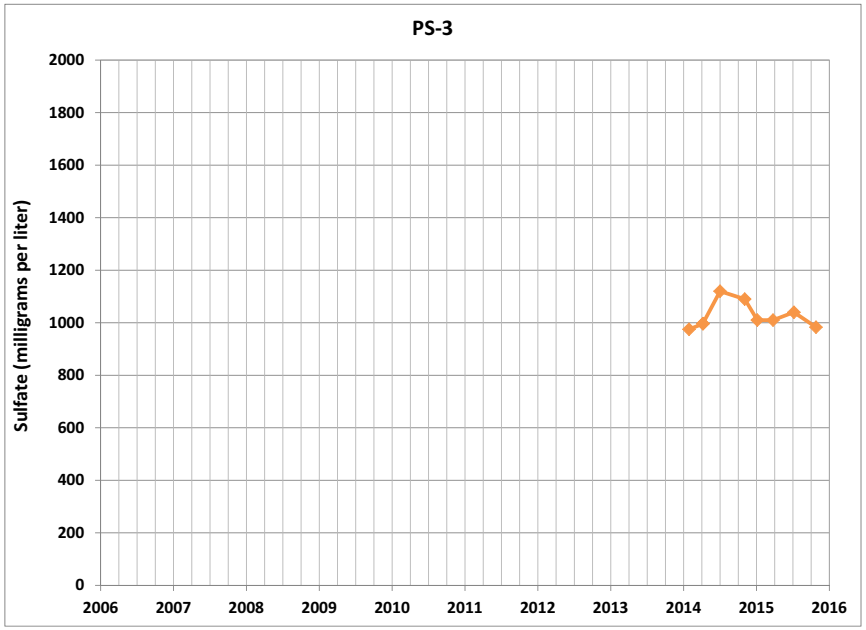

MC-2
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

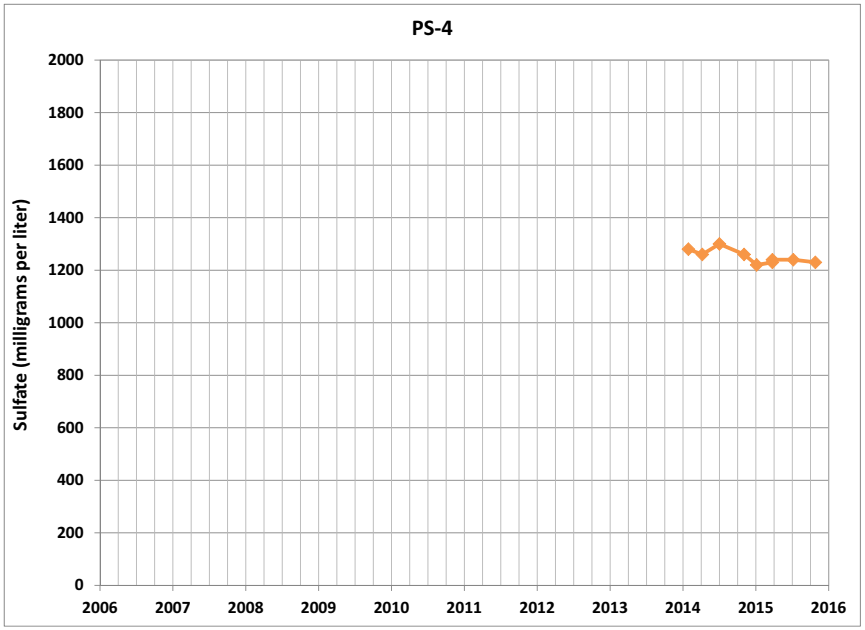

MC-3
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MC-4
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


PS-1
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


PS-2
Sulfate (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


PS-3
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


PS-4
Sulfate (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

# APPENDIX C

# WATER ELEVATION DATA

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| 1225 | 3000.49 | 6/16/15 | | 492.97 | Static | 2507.52 | Sierrita EDMS |
| | | 11/17/15 | | 496.96 | Static | 2503.53 | |
| 1350 | 3033.25 | 7/12/07 | | 474.29 | | 2558.96 | Sierrita EDMS |
| | | 11/8/07 | | 477.30 | | 2555.95 | |
| | | 1/9/08 | | 477.00 | | 2556.25 | |
| | | 4/14/08 | | 475.50 | | 2557.75 | |
| | | 8/7/08 | | 477.88 | | 2555.37 | |
| | | 11/5/08 | | 479.21 | | 2554.04 | |
| | | 1/19/09 | | 477.33 | | 2555.92 | |
| | | 6/29/09 | | 479.57 | | 2553.68 | |
| | | 5/28/10 | | 478.78 | | 2554.47 | |
| | | 5/9/11 | | 480.42 | | 2552.83 | |
| | | 6/29/12 | | 479.57 | | 2553.68 | |
| | | 5/23/13 | | 481.16 | | 2552.09 | |
| | | 4/29/14 | | Obstructed | | NA | |
| | | 5/22/14 | | Obstructed | | NA | |
| | | 5/28/14 | | 494.95 | | 2538.30 | |
| | | 6/16/15 | | 511.79 | Static | 2521.46 | |
| | | 11/17/15 | | 517.00 | Static | 2516.25 | |
| 1759 | 2989.54 | 6/16/15 | | 484.12 | Static | 2505.42 | Sierrita EDMS |
| | | 11/17/15 | | 487.52 | Static | 2502.02 | |
| 2125 | 3253.98 | 6/16/15 | | 736.98 | Static | 2517.00 | Sierrita EDMS |
| | | 11/17/15 | | 741.29 | Static | 2512.69 | |
| CC OF GV | 2823.45 | 1/15/07 | | 253.15 | | 2570.30 | Sierrita EDMS |
| | | 4/16/07 | | 254.20 | | 2569.25 | |
| | | 7/9/07 | | 259.79 | | 2563.66 | |
| | | 1/10/08 | | 257.26 | | 2566.19 | |
| | | 7/7/08 | | 261.09 | | 2562.36 | |
| | | 11/14/08 | | 263.13 | | 2560.32 | |
| | | 2/4/09 | | 258.48 | | 2564.97 | |
| | | 4/21/09 | | 258.79 | | 2564.66 | |
| | | 4/22/10 | | 259.51 | | 2563.94 | |
| | | 5/14/13 | | 258.20 | | 2565.25 | |
| CW-3 | 2941.71 | 6/6/07 | | 265.35 | | 2676.36 | Sierrita EDMS |
| | | 8/10/07 | | 267.40 | | 2674.31 | |
| | | 11/6/07 | | 269.98 | | 2671.73 | |
| | | 1/11/08 | | 264.40 | | 2677.31 | |
| | | 4/17/08 | | 266.46 | | 2675.25 | |
| | | 7/11/08 | | 270.95 | | 2670.76 | |
| | | 10/6/08 | | 271.78 | | 2669.93 | |
| | | 2/9/09 | | 267.51 | | 2674.20 | |
| | | 4/24/09 | | 269.06 | | 2672.65 | |
| | | 12/31/09 | | 272.10 | | 2669.61 | |
| | | 4/22/10 | | 271.91 | | 2669.80 | |
| | | 10/25/10 | | 273.54 | | 2668.17 | |
| | | 5/2/11 | | 272.50 | | 2669.21 | |
| | | 12/5/11 | | 274.20 | | 2667.51 | |
| | | 6/26/12 | | 259.51 | | 2682.20 | |
| | | 12/13/12 | | 278.81 | | 2662.90 | |
| | | 6/13/13 | | 283.48 | | 2658.23 | |
| | | 11/12/13 | | 286.51 | | 2655.20 | |
| | | 3/12/14 | | 286.62 | | 2655.09 | |
| | | 4/29/14 | | 289.87 | | 2651.84 | |
| | | 5/6/14 | | 289.87 | | 2651.84 | |
| | | 6/23/14 | | 289.83 | | 2651.88 | |
| | | 7/28/14 | | 296.29 | | 2645.42 | |
| | | 8/7/14 | | 297.18 | | 2644.53 | |
| | | 9/8/14 | | 298.21 | Static | 2643.50 | |
| | | 10/15/14 | | 299.49 | | 2642.22 | |
| | | 11/26/14 | | 300.17 | | 2641.54 | |
| | | 12/17/14 | | 300.75 | Static | 2640.96 | |
| | | 1/29/15 | | 301.17 | Static[1] | 2640.54 | |
| | | 2/27/15 | | 301.40 | Static[1] | 2640.31 | |
| | | 3/18/15 | | 301.16 | Static[1] | 2640.55 | |
| | | 4/28/15 | | 304.04 | Static[1] | 2637.67 | |
| | | 5/11/15 | | 303.79 | Static[1] | 2637.92 | |
| | | 6/2/15 | | 304.11 | Static[1] | 2637.60 | |
| | | 7/24/15 | | 307.31 | Static[1] | 2634.40 | |
| | | 8/25/15 | | 308.58 | Static[1] | 2633.13 | |
| | | 10/28/15 | | 309.02 | Static[1] | 2632.69 | |
| | | 11/5/15 | | 308.88 | Static[1] | 2632.83 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| CW-6 | 2867.00 | 12/4/06 | | 247.50 | | 2619.50 | Sierrita EDMS |
| | | 1/3/07 | | 245.00 | | 2622.00 | |
| | | 5/24/07 | | 252.25 | | 2614.75 | |
| | | 7/10/07 | | 252.15 | | 2614.85 | |
| | | 10/2/07 | | 253.05 | | 2613.95 | |
| | | 1/8/08 | | 245.81 | | 2621.19 | |
| | | 4/17/08 | | 254.20 | | 2612.80 | |
| | | 7/8/08 | | 253.80 | | 2613.20 | |
| | | 10/7/08 | | 256.30 | | 2610.70 | |
| | | 2/6/09 | | 249.27 | | 2617.73 | |
| | | 4/22/09 | | 253.15 | | 2613.85 | |
| | | 9/22/09 | | 256.80 | | 2610.20 | |
| | | 11/5/09 | | 258.10 | | 2608.90 | |
| | | 2/10/10 | | 250.76 | | 2616.24 | |
| | | 5/14/10 | | 252.78 | | 2614.22 | |
| | | 7/27/10 | | 257.35 | | 2609.65 | |
| | | 10/14/10 | | 257.22 | | 2609.78 | |
| | | 2/24/11 | | 250.38 | | 2616.62 | |
| | | 4/28/11 | | 254.32 | | 2612.68 | |
| | | 7/20/11 | | 257.20 | | 2609.80 | |
| | | 12/14/11 | | 253.57 | | 2613.43 | |
| | | 1/24/12 | | 252.33 | | 2614.67 | |
| | | 5/9/12 | | 255.74 | | 2611.26 | |
| | | 8/29/12 | | 258.30 | | 2608.70 | |
| | | 12/12/12 | | 256.33 | | 2610.67 | |
| | | 2/6/13 | | 254.67 | | 2612.33 | |
| | | 5/15/13 | | 259.27 | | 2607.73 | |
| | | 7/17/13 | | 263.01 | | 2603.99 | |
| | | 10/23/13 | | 264.66 | | 2602.34 | |
| | | 1/14/14 | | 259.78 | | 2607.22 | |
| | | 4/16/14 | | 265.79 | | 2601.21 | |
| | | 10/13/14 | | 279.38 | Static[1] | 2587.62 | |
| | | 1/13/15 | | 279.20 | Static[1] | 2587.80 | |
| | | 4/14/15 | | 284.00 | Static[1] | 2583.00 | |
| | | 7/27/15 | | 290.59 | Static[1] | 2576.41 | |
| | | 10/20/15 | | 290.71 | Static[1] | 2576.29 | |
| CW-7 | 2987.50 | 2/2/07 | | 425.00 | | 2562.50 | Sierrita EDMS |
| | | 5/14/07 | | 424.15 | | 2563.35 | |
| | | 7/10/07 | | 426.50 | | 2561.00 | |
| | | 10/2/07 | | 427.60 | | 2559.90 | |
| | | 1/8/08 | | 427.50 | | 2560.00 | |
| | | 4/17/08 | | 426.40 | | 2561.10 | |
| | | 7/8/08 | | 428.40 | | 2559.10 | |
| | | 10/7/08 | | 429.80 | | 2557.70 | |
| | | 2/6/09 | | 426.62 | | 2560.88 | |
| | | 4/22/09 | | 424.30 | | 2563.20 | |
| | | 5/14/10 | | 438.35 | | 2549.15 | |
| | | 4/28/11 | | 429.50 | | 2558.00 | |
| | | 5/9/12 | | 425.90 | | 2561.60 | |
| | | 5/15/13 | | 458.53 | | 2528.97 | |
| | | 4/16/14 | | 440.68 | | 2546.82 | |
| | | 6/18/15 | | 461.75 | Static | 2525.75 | |
| | | 10/20/15 | | 465.40 | Static | 2522.10 | |
| CW-8 | 2957.50 | 1/3/07 | | 336.50 | | 2621.00 | Sierrita EDMS |
| | | 5/24/07 | | 338.14 | | 2619.36 | |
| | | 8/10/07 | | 339.80 | | 2617.70 | |
| | | 10/2/07 | | 340.60 | | 2616.90 | |
| | | 1/8/08 | | 337.97 | | 2619.53 | |
| | | 4/17/08 | | 339.20 | | 2618.30 | |
| | | 7/8/08 | | 341.75 | | 2615.75 | |
| | | 10/7/08 | | 342.75 | | 2614.75 | |
| | | 2/6/09 | | 339.12 | | 2618.38 | |
| | | 4/22/09 | | 341.20 | | 2616.30 | |
| | | 4/12/10 | | 342.00 | | 2615.50 | |
| | | 4/28/11 | | 342.68 | | 2614.82 | |
| | | 5/9/12 | | 340.12 | | 2617.38 | |
| | | 5/15/13 | | 347.39 | | 2610.11 | |
| | | 4/16/14 | | 359.08 | | 2598.42 | |
| | | 6/18/15 | | 384.24 | Static | 2573.26 | |
| | | 10/20/15 | | 387.56 | Static | 2569.94 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| CW-9 | 2834.30 | 12/4/06 | | 306.00 | | 2528.30 | Sierrita EDMS |
| | | 1/3/07 | | 304.20 | | 2530.10 | |
| | | 5/24/07 | | 309.40 | | 2524.90 | |
| | | 7/10/07 | | 310.20 | | 2524.10 | |
| | | 10/2/07 | | 310.70 | | 2523.60 | |
| | | 1/8/08 | | 308.82 | | 2525.48 | |
| | | 4/17/08 | | 308.00 | | 2526.30 | |
| | | 7/8/08 | | 315.60 | | 2518.70 | |
| | | 10/7/08 | | 316.05 | | 2518.25 | |
| | | 2/6/09 | | 309.80 | | 2524.50 | |
| | | 4/22/09 | | 311.10 | | 2523.20 | |
| | | 7/30/09 | | 316.5 | | 2517.80 | |
| | | 11/5/09 | | 321.60 | | 2512.70 | |
| | | 2/10/10 | | 316.69 | | 2517.61 | |
| | | 5/14/10 | | 316.20 | | 2518.10 | |
| | | 7/27/10 | | 313.63 | | 2520.67 | |
| | | 10/14/10 | | 318.65 | | 2515.65 | |
| | | 2/24/11 | | 309.94 | | 2524.36 | |
| | | 4/28/11 | | 313.41 | | 2520.89 | |
| | | 7/20/11 | | 315.45 | | 2518.85 | |
| | | 12/14/11 | | 314.17 | | 2520.13 | |
| | | 1/24/12 | | 312.56 | | 2521.74 | |
| | | 5/9/12 | | 314.39 | | 2519.91 | |
| | | 8/29/12 | | 318.12 | | 2516.18 | |
| | | 12/12/12 | | 317.48 | | 2516.82 | |
| | | 2/6/13 | | 313.90 | | 2520.40 | |
| | | 5/15/13 | | 313.79 | | 2520.51 | |
| | | 7/17/13 | | 316.52 | | 2517.78 | |
| | | 10/23/13 | | 319.19 | | 2515.11 | |
| | | 1/14/14 | | 319.38 | | 2514.92 | |
| | | 4/16/14 | | 317.82 | | 2516.48 | |
| | | 10/13/14 | | 330.96 | Static[1] | 2503.34 | |
| | | 1/13/15 | | 328.35 | Static[1] | 2505.95 | |
| | | 4/14/15 | | 331.47 | Static[1] | 2502.83 | |
| | | 7/27/15 | | 338.28 | Static[1] | 2496.02 | |
| | | 10/20/15 | | 342.55 | Static[1] | 2491.75 | |
| CW-10 | 2868.50 | 12/4/06 | | 178.25 | | 2690.25 | Sierrita EDMS |
| | | 1/3/07 | | 177.20 | | 2691.30 | |
| | | 5/24/07 | | 196.30 | | 2672.20 | |
| | | 7/10/07 | | 198.79 | | 2669.71 | |
| | | 10/2/07 | | 190.85 | | 2677.65 | |
| | | 1/8/08 | | 180.95 | | 2687.55 | |
| | | 4/17/08 | | 187.95 | | 2680.55 | |
| | | 7/8/08 | | 203.25 | | 2665.25 | |
| | | 10/7/08 | | 190.65 | | 2677.85 | |
| | | 2/6/09 | | 184.40 | | 2684.10 | |
| | | 4/22/09 | | 191.12 | | 2677.38 | |
| | | 7/30/09 | | 197.3 | | 2671.20 | |
| | | 11/5/09 | | 199.10 | | 2669.40 | |
| | | 2/10/10 | | 186.00 | | 2682.50 | |
| | | 5/14/10 | | 190.10 | | 2678.40 | |
| | | 7/27/10 | | 198.52 | | 2669.98 | |
| | | 10/14/10 | | 195.31 | | 2673.19 | |
| | | 2/24/11 | | 191.62 | | 2676.88 | |
| | | 4/28/11 | | 196.15 | | 2672.35 | |
| | | 7/20/11 | | 199.75 | | 2668.75 | |
| | | 12/14/11 | | 191.70 | | 2676.80 | |
| | | 1/24/12 | | 189.73 | | 2678.77 | |
| | | 5/9/12 | | 197.20 | | 2671.30 | |
| | | 8/29/12 | | 201.50 | | 2667.00 | |
| | | 12/12/12 | | 199.93 | | 2668.57 | |
| | | 2/6/13 | | 197.87 | | 2670.63 | |
| | | 5/15/13 | | 209.50 | | 2659.00 | |
| | | 7/17/13 | | 212.61 | | 2655.89 | |
| | | 10/23/13 | | 215.14 | | 2653.36 | |
| | | 1/14/14 | | 203.86 | | 2664.64 | |
| | | 4/16/14 | | 210.15 | | 2658.35 | |
| | | 7/22/14 | | 220.59 | Static[1] | 2647.91 | |
| | | 10/13/14 | | 223.99 | Static[1] | 2644.51 | |
| | | 1/13/15 | | 216.94 | Static[1] | 2651.56 | |
| | | 4/14/15 | | 230.95 | Static[1] | 2637.55 | |
| | | 7/27/15 | | 236.30 | Static[1] | 2632.20 | |
| | | 10/20/15 | | 224.82 | Static[1] | 2643.68 | |
| CW-11 | 2778.61 | 6/18/15 | | 318.58 | Dynamic | 2460.03 | Sierrita EDMS |
| | | 10/20/15 | | 286.51 | Static[1] | 2492.10 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| ESP-1 | 2953.43 | 11/28/06 | | 352.20 | | 2601.23 | Sierrita EDMS |
| | | 1/3/07 | | 350.10 | | 2603.33 | |
| | | 5/24/07 | | 349.55 | | 2603.88 | |
| | | 7/10/07 | | 351.11 | | 2602.32 | |
| | | 10/12/07 | | 343.00 | | 2610.43 | |
| | | 10/30/08 | | 355.47 | | 2597.96 | |
| | | 1/29/09 | | 354 | | 2599.43 | |
| | | 4/16/09 | | 350.50 | | 2602.93 | |
| | | 11/10/09 | | 355.67 | | 2597.76 | |
| | | 4/28/10 | | 354.10 | | 2599.33 | |
| | | 10/15/10 | | 357.40 | | 2596.03 | |
| | | 5/3/11 | | 355.79 | | 2597.64 | |
| | | 11/22/11 | | 357.82 | | 2595.61 | |
| | | 12/13/11 | | 355.60 | | 2597.83 | |
| | | 6/19/12 | | 357.76 | | 2595.67 | |
| | | 11/21/12 | | 358.70 | | 2594.73 | |
| | | 5/20/13 | | 357.15 | | 2596.28 | |
| | | 4/28/14 | | Obstructed | | NA | |
| ESP-2 | 2934.60 | 11/28/06 | | 342.55 | | 2592.05 | Sierrita EDMS |
| | | 1/3/07 | | 343.10 | | 2591.50 | |
| | | 5/14/07 | | 339.90 | | 2594.70 | |
| | | 7/10/07 | | 341.25 | | 2593.35 | |
| | | 10/12/07 | | 342.26 | | 2592.34 | |
| | | 1/23/08 | | 340.40 | | 2594.20 | |
| | | 4/18/08 | | 340.93 | | 2593.67 | |
| | | 7/25/08 | | 342.30 | | 2592.30 | |
| | | 10/30/08 | | 344.82 | | 2589.78 | |
| | | 1/29/09 | | 395.16 | | 2539.44 | |
| | | 4/16/09 | | 341.45 | | 2593.15 | |
| | | 11/10/09 | | 346.50 | | 2588.10 | |
| | | 4/28/10 | | 343.99 | | 2590.61 | |
| | | 10/15/10 | | 347.33 | | 2587.27 | |
| | | 5/3/11 | | 345.44 | | 2589.16 | |
| | | 11/22/11 | | 347.26 | | 2587.34 | |
| | | 6/19/12 | | 346.84 | | 2587.76 | |
| | | 11/21/12 | | 348.11 | | 2586.49 | |
| | | 5/20/13 | | 348.45 | | 2586.15 | |
| | | 11/5/13 | | 362.28 | | 2572.32 | |
| | | 3/12/14 | | 354.98 | | 2579.62 | |
| | | 4/28/14 | | 358.88 | | 2575.72 | |
| | | 5/6/14 | | 358.90 | | 2575.70 | |
| | | 6/23/14 | | 358.86 | | 2575.74 | |
| | | 7/28/14 | | 365.59 | | 2569.01 | |
| | | 8/8/14 | | 367.53 | | 2567.07 | |
| | | 9/9/14 | | 368.29 | Static | 2566.31 | |
| | | 10/1/14 | | 369.45 | | 2565.15 | |
| | | 11/26/14 | | 369.90 | | 2564.70 | |
| | | 12/17/14 | | 370.22 | Static | 2564.38 | |
| | | 1/29/15 | | 370.43 | Static | 2564.17 | |
| | | 2/27/15 | | 370.56 | Static | 2564.04 | |
| | | 3/26/15 | | 376.27 | Static | 2558.33 | |
| | | 4/29/15 | | 377.94 | Static | 2556.66 | |
| | | 5/12/15 | | 378.70 | Static | 2555.90 | |
| | | 6/21/15 | | 379.41 | Static | 2555.19 | |
| | | 7/24/15 | | 382.81 | Static | 2551.79 | |
| | | 8/14/15 | | 384.60 | Static | 2550.00 | |
| | | 10/21/15 | | 382.96 | Static | 2551.64 | |
| | | 11/2/15 | | 382.38 | Static | 2552.22 | |
| ESP-3 | 2935.80 | 11/28/06 | | 360.40 | | 2575.40 | Sierrita EDMS |
| | | 1/3/07 | | 358.60 | | 2577.20 | |
| | | 5/14/07 | | 355.85 | | 2579.95 | |
| | | 7/1/07 | | 358.05 | | 2577.75 | |
| | | 10/30/08 | | 361.12 | | 2574.68 | |
| | | 1/29/09 | | 410.05 | | 2525.75 | |
| | | 4/16/09 | | 353.20 | | 2582.60 | |
| | | 11/12/09 | | 363.37 | | 2572.43 | |
| | | 4/28/10 | | 361.69 | | 2574.11 | |
| | | 10/15/10 | | 365.00 | | 2570.80 | |
| | | 5/3/11 | | 363.35 | | 2572.45 | |
| | | 11/22/11 | | 364.91 | | 2570.89 | |
| | | 6/19/12 | | 364.50 | | 2571.30 | |
| | | 11/21/12 | | 357.92 | | 2577.88 | |
| | | 5/22/13 | | 356.23 | | 2579.57 | |
| | | 11/5/13 | | 367.84 | | 2567.96 | |
| | | 4/28/14 | | 374.61 | | 2561.19 | |
| | | 10/1/14 | | 375.53 | Static | 2560.27 | |
| | | 5/12/15 | | 393.85 | Static | 2541.95 | |
| | | 10/21/15 | | 398.32 | Static | 2537.48 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| ESP-4 | 2958.60 | 11/28/06 | | 349.20 | | 2609.40 | Sierrita EDMS |
| | | 1/12/07 | | 348.30 | | 2610.30 | |
| | | 5/4/07 | | 346.90 | | 2611.70 | |
| | | 7/24/07 | | 348.80 | | 2609.80 | |
| | | 10/12/07 | | 352.41 | | 2606.19 | |
| | | 1/23/08 | | 349.65 | | 2608.95 | |
| | | 4/18/08 | | 350.39 | | 2608.21 | |
| | | 7/25/08 | | 352.13 | | 2606.47 | |
| | | 10/30/08 | | 355.42 | | 2603.18 | |
| | | 1/29/09 | | 352.50 | | 2606.10 | |
| | | 4/16/09 | | 356.87 | | 2601.73 | |
| | | 10/23/09 | | 355.64 | | 2602.96 | |
| | | 4/28/10 | | 351.56 | | 2607.04 | |
| | | 10/15/10 | | 358.16 | | 2600.44 | |
| | | 5/3/11 | | 355.65 | | 2602.95 | |
| | | 11/22/11 | | 356.91 | | 2601.69 | |
| | | 11/12/12 | | 358.92 | | 2599.68 | |
| | | 5/20/13 | | 363.95 | | 2594.65 | |
| | | 11/5/13 | | 362.37 | | 2596.23 | |
| | | 4/28/14 | | 372.14 | | 2586.46 | |
| | | 10/1/14 | | 383.76 | Static | 2574.84 | |
| | | 5/12/15 | | 393.63 | Static | 2564.97 | |
| | | 10/19/15 | | 399.74 | Static | 2558.86 | |
| ESP-5 | 2820.00 | 2/12/07 | | 219.50 | | 2600.50 | Sierrita EDMS |
| | | 5/4/07 | | 217.75 | | 2602.25 | |
| | | 7/3/07 | | 224.60 | | 2595.40 | |
| | | 11/8/07 | | 228.42 | | 2591.58 | |
| | | 1/28/08 | | 222.00 | | 2598.00 | |
| | | 4/22/08 | | 220.08 | | 2599.92 | |
| | | 8/7/08 | | 225.88 | | 2594.12 | |
| | | 11/3/08 | | 228.92 | | 2591.08 | |
| | | 2/17/09 | | 221.89 | | 2598.11 | |
| | | 6/2/09 | | 224.10 | | 2595.90 | |
| | | 4/28/10 | | 223.28 | | 2596.72 | |
| | | 5/3/11 | | 224.15 | | 2595.85 | |
| | | 6/19/12 | | 229.73 | | 2590.27 | |
| | | 5/20/13 | | 230.08 | | 2589.92 | |
| | | 4/29/14 | | 232.72 | | 2587.28 | |
| | | 6/17/15 | | 241.10 | Static | 2578.90 | |
| | | 11/24/15 | | 242.02 | Static | 2577.98 | |
| FFS-1 | 3071.40 | 5/10/13 | 396.74 | | Static | | BasinWells, 2015a |
| | | 5/10/13 | 427.19 | | Dynamic | | BasinWells, 2015a |
| | | 1/15/14 | | 438.94 | Dynamic | 2632.46 | Sierrita EDMS |
| | | 1/15/14 | 438.94 | | Dynamic | | BasinWells, 2015a |
| | | 1/22/14 | | 439.09 | Dynamic | 2632.31 | Sierrita EDMS |
| | | 1/22/14 | 439.09 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 379.85 | Dynamic | 2691.55 | Sierrita EDMS |
| | | 2/5/14 | 436.58 | | Dynamic | | BasinWells, 2015a |
| | | 2/12/14 | 437.02 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | 446.91 | Dynamic | 2624.49 | Sierrita EDMS |
| | | 5/14/14 | | 453.40 | Dynamic | 2618.00 | Sierrita EDMS |
| | | 5/30/14 | 453.40 | | Dynamic | | BasinWells, 2015a |
| | | 6/5/14 | | 457.50 | Dynamic | 2613.90 | Sierrita EDMS |
| | | 6/5/14 | 457.50 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 455.90 | Dynamic | 2615.50 | Sierrita EDMS |
| | | 7/6/14 | 454.90 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 457.00 | Dynamic | 2614.40 | Sierrita EDMS |
| | | 7/31/14 | 457.00 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 457.80 | Dynamic | 2613.60 | Sierrita EDMS |
| | | 8/27/14 | 457.80 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 428.40 | Static | 2643.00 | Sierrita EDMS |
| | | 10/1/14 | 427.4 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 462.50 | Static | 2608.90 | Sierrita EDMS |
| | | 11/4/14 | 461.50 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 464.00 | Dynamic | 2607.40 | Sierrita EDMS |
| | | 12/2/14 | 463.00 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 464.60 | Dynamic | 2606.80 | Sierrita EDMS |
| | | 3/3/15 | | 465.70 | Dynamic | 2605.70 | Sierrita EDMS |
| | | 4/9/15 | | 432.05 | Static | 2639.35 | Sierrita EDMS |
| | | 5/2/15 | | 431.60 | Static | 2639.80 | Sierrita EDMS |
| | | 6/11/15 | | 431.55 | Static | 2639.85 | Sierrita EDMS |
| | | 7/6/15 | | 467.05 | Dynamic | 2604.35 | Sierrita EDMS |
| | | 8/18/15 | | 470.50 | Dynamic | 2600.90 | Sierrita EDMS |
| | | 10/7/15 | | 472.85 | Dynamic | 2598.55 | Sierrita EDMS |
| | | 11/4/15 | | 473.70 | Dynamic | 2597.70 | Sierrita EDMS |
| | | 12/9/15 | | 475.32 | Dynamic | 2596.08 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| FFS-2 | 3082.11 | 4/29/13 | 416.50 | | Static | | BasinWells, 2015a |
| | | 4/29/13 | 446.60 | | Dynamic | | BasinWells, 2015a |
| | | 1/15/14 | | 459.42 | Dynamic | 2622.69 | Sierrita EDMS |
| | | 1/15/14 | 459.42 | | Dynamic | | BasinWells, 2015a |
| | | 1/22/14 | | 460.08 | Dynamic | 2622.03 | Sierrita EDMS |
| | | 1/22/14 | 460.08 | | Dynamic | | BasinWells, 2015a |
| | | 1/28/14 | 462.21 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 462.21 | Dynamic | 2619.90 | Sierrita EDMS |
| | | 2/5/14 | 463.82 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | 468.92 | Dynamic | 2613.19 | Sierrita EDMS |
| | | 5/13/14 | | 444.00 | Dynamic | 2638.11 | Sierrita EDMS |
| | | 5/30/14 | 474.00 | | Dynamic | | BasinWells, 2015a |
| | | 6/5/14 | | 476.75 | Dynamic | 2605.36 | Sierrita EDMS |
| | | 6/5/14 | 476.75 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 479.70 | Dynamic | 2602.41 | Sierrita EDMS |
| | | 7/6/14 | 479.03 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 480.80 | Dynamic | 2601.31 | Sierrita EDMS |
| | | 7/31/14 | 480.80 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 482.20 | Dynamic | 2599.91 | Sierrita EDMS |
| | | 8/27/14 | 482.20 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 453.20 | Static | 2628.91 | Sierrita EDMS |
| | | 10/1/14 | 452.53 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 487.37 | Dynamic | 2594.74 | Sierrita EDMS |
| | | 11/4/14 | 486.70 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 489.05 | Dynamic | 2593.06 | Sierrita EDMS |
| | | 12/2/14 | 488.38 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 489.95 | Dynamic | 2592.16 | Sierrita EDMS |
| | | 3/3/15 | | 491.92 | Dynamic | 2590.19 | Sierrita EDMS |
| | | 4/9/15 | | 491.90 | Dynamic | 2590.21 | Sierrita EDMS |
| | | 5/2/15 | | 492.10 | Dynamic | 2590.01 | Sierrita EDMS |
| | | 6/11/15 | | 491.50 | Dynamic | 2590.61 | Sierrita EDMS |
| | | 7/6/15 | | 493.90 | Dynamic | 2588.21 | Sierrita EDMS |
| | | 8/18/15 | | 496.50 | Dynamic | 2585.61 | Sierrita EDMS |
| | | 10/7/15 | | UTM | Static | NA | Sierrita EDMS |
| | | 11/4/15 | | 499.60 | Dynamic | 2582.51 | Sierrita EDMS |
| | | 12/9/15 | | 502.00 | Dynamic | 2580.11 | Sierrita EDMS |
| FFS-3 | 3083.90 | 4/20/13[1] | 461.90 | | Static | | BasinWells, 2015a |
| | | 4/20/13 | 532.50 | | Dynamic | | BasinWells, 2015a |
| | | 1/15/14 | | 497.29 | Dynamic | 2586.61 | Sierrita EDMS |
| | | 1/15/14 | 497.29 | | Dynamic | | BasinWells, 2015a |
| | | 1/22/14 | | 497.31 | Dynamic | 2586.59 | Sierrita EDMS |
| | | 1/22/14 | 497.31 | | Dynamic | | BasinWells, 2015a |
| | | 1/28/14 | 497.98 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 497.98 | Dynamic | 2585.92 | Sierrita EDMS |
| | | 2/5/14 | 499.18 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | 502.16 | Dynamic | 2581.74 | Sierrita EDMS |
| | | 5/14/14 | | 508.87 | Dynamic | 2575.03 | Sierrita EDMS |
| | | 5/30/14 | 508.87 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 509.68 | Dynamic | 2574.22 | Sierrita EDMS |
| | | 6/9/14 | 509.68 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 511.70 | Dynamic | 2572.20 | Sierrita EDMS |
| | | 7/6/14 | 510.70 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 513.10 | Dynamic | 2570.80 | Sierrita EDMS |
| | | 7/31/14 | 513.10 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 514.25 | Dynamic | 2569.65 | Sierrita EDMS |
| | | 8/27/14 | 514.25 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 497.80 | Static | 2586.10 | Sierrita EDMS |
| | | 10/1/14 | 496.80 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 519.50 | Dynamic | 2564.40 | Sierrita EDMS |
| | | 11/4/14 | 518.50 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 521.35 | Dynamic | 2562.55 | Sierrita EDMS |
| | | 12/2/14 | 520.35 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 523.10 | Dynamic | 2560.80 | Sierrita EDMS |
| | | 2/4/15 | | 522.10 | Dynamic | 2561.80 | Sierrita EDMS |
| | | 3/3/15 | | 524.05 | Dynamic | 2559.85 | Sierrita EDMS |
| | | 4/9/15 | | 525.40 | Dynamic | 2558.50 | Sierrita EDMS |
| | | 5/2/15 | | 526.95 | Dynamic | 2556.95 | Sierrita EDMS |
| | | 6/11/15 | | 509.50 | Static | 2574.40 | Sierrita EDMS |
| | | 7/6/15 | | 529.40 | Dynamic | 2554.50 | Sierrita EDMS |
| | | 8/18/15 | | 530.00 | Dynamic | 2553.90 | Sierrita EDMS |
| | | 10/7/15 | | 530.70 | Dynamic | 2553.20 | Sierrita EDMS |
| | | 11/4/15 | | 535.70 | Dynamic | 2548.20 | Sierrita EDMS |
| | | 12/9/15 | | 538.30 | Dynamic | 2545.60 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| FFS-4 | 3097.92 | 5/29/13 | 497.96 | | Static | | BasinWells, 2015a |
| | | 5/29/13 | 544.45 | | Dynamic | | BasinWells, 2015a |
| | | 1/15/14 | | 548.14 | Dynamic | 2549.78 | Sierrita EDMS |
| | | 1/15/14 | 548.14 | | Dynamic | | BasinWells, 2015a |
| | | 1/22/14 | | 550.75 | Dynamic | 2547.17 | Sierrita EDMS |
| | | 1/22/14 | 550.75 | | Dynamic | | BasinWells, 2015a |
| | | 1/28/14 | 552.10 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 552.10 | Dynamic | 2545.82 | Sierrita EDMS |
| | | 2/5/14 | 554.16 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | 559.71 | Dynamic | 2538.21 | Sierrita EDMS |
| | | 5/14/14 | | 570.41 | Dynamic | 2527.51 | Sierrita EDMS |
| | | 5/30/14 | 570.41 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 572.45 | Dynamic | 2525.47 | Sierrita EDMS |
| | | 6/9/14 | 572.45 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 576.05 | Dynamic | 2521.87 | Sierrita EDMS |
| | | 7/6/14 | 574.88 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 578.25 | Dynamic | 2519.67 | Sierrita EDMS |
| | | 7/31/14 | 578.25 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 580.50 | Dynamic | 2517.42 | Sierrita EDMS |
| | | 8/27/14 | 580.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 529.75 | Static | 2568.17 | Sierrita EDMS |
| | | 10/1/14 | 528.58 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 595.40 | Dynamic | 2502.52 | Sierrita EDMS |
| | | 11/4/14 | 594.23 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 602.10 | Dynamic | 2495.82 | Sierrita EDMS |
| | | 12/2/14 | 600.93 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 608.90 | Dynamic | 2489.02 | Sierrita EDMS |
| | | 3/3/15 | | 622.65 | Dynamic | 2475.27 | Sierrita EDMS |
| | | 4/9/15 | | 661.30 | Dynamic | 2436.62 | Sierrita EDMS |
| | | 5/2/15 | | 668.25 | Dynamic | 2429.67 | Sierrita EDMS |
| | | 6/11/15 | | 541.42 | Static | 2556.50 | Sierrita EDMS |
| | | 7/6/15 | | 541.73 | Static | 2556.19 | Sierrita EDMS |
| | | 8/18/15 | | 696.60 | Dynamic | 2401.32 | Sierrita EDMS |
| | | 10/7/15 | | 694.80 | Dynamic | 2403.12 | Sierrita EDMS |
| | | 11/4/15 | | 697.00 | Dynamic | 2400.92 | Sierrita EDMS |
| | | 12/9/15 | | 698.85 | Dynamic | 2399.07 | Sierrita EDMS |
| FFS-5 | 3107.73 | 1/28/13 | 522.49 | | Static | | BasinWells, 2015a |
| | | 1/28/13 | 555.55 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 5/13/14 | | 554.32 | Dynamic | 2553.41 | Sierrita EDMS |
| | | 5/15/14 | | 554.32 | Dynamic | 2553.41 | Sierrita EDMS |
| | | 5/15/14 | 554.32 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/14 | | 563.67 | Dynamic | 2544.06 | Sierrita EDMS |
| | | 5/22/14 | 563.67 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 565.20 | Dynamic | 2542.53 | Sierrita EDMS |
| | | 6/9/14 | 565.20 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 566.80 | Dynamic | 2540.93 | Sierrita EDMS |
| | | 7/6/14 | 565.80 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 568.60 | Dynamic | 2539.13 | Sierrita EDMS |
| | | 7/31/14 | 568.60 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 569.80 | Dynamic | 2537.93 | Sierrita EDMS |
| | | 8/27/14 | 569.80 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 554.18 | Static | 2553.55 | Sierrita EDMS |
| | | 10/1/14 | 553.18 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 575.55 | Dynamic | 2532.18 | Sierrita EDMS |
| | | 11/4/14 | 574.55 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 577.65 | Dynamic | 2530.08 | Sierrita EDMS |
| | | 12/2/14 | 576.65 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 579.20 | Dynamic | 2528.53 | Sierrita EDMS |
| | | 3/3/15 | | 581.00 | Dynamic | 2526.73 | Sierrita EDMS |
| | | 4/9/15 | | 582.55 | Dynamic | 2525.18 | Sierrita EDMS |
| | | 5/2/15 | | 584.00 | Dynamic | 2523.73 | Sierrita EDMS |
| | | 6/11/15 | | 567.15 | Static | 2540.58 | Sierrita EDMS |
| | | 7/6/15 | | 566.90 | Static | 2540.83 | Sierrita EDMS |
| | | 8/18/15 | | 588.00 | Dynamic | 2519.73 | Sierrita EDMS |
| | | 10/7/15 | | 589.35 | Dynamic | 2518.38 | Sierrita EDMS |
| | | 11/4/15 | | 590.10 | Dynamic | 2517.63 | Sierrita EDMS |
| | | 12/9/15 | | 591.40 | Dynamic | 2516.33 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| FFS-6 | 3110.44 | 12/17/12 | 535.30 | | Static | | BasinWells, 2015a |
| | | 12/17/12 | 549.40 | | Dynamic | | BasinWells, 2015a |
| | | 1/15/14 | | 539.28 | Dynamic | 2571.16 | Sierrita EDMS |
| | | 1/15/14 | 550.79 | | Dynamic | | BasinWells, 2015a |
| | | 1/22/14 | | 552.04 | Dynamic | 2558.40 | Sierrita EDMS |
| | | 1/22/14 | 552.04 | | Dynamic | | BasinWells, 2015a |
| | | 1/28/14 | 547.78 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 547.78 | Dynamic | 2562.66 | Sierrita EDMS |
| | | 2/5/14 | 554.68 | | Dynamic | | BasinWells, 2015a |
| | | 3/12/14 | | 559.21 | Dynamic | 2551.23 | Sierrita EDMS |
| | | 5/13/14 | | 566.06 | Dynamic | 2544.38 | Sierrita EDMS |
| | | 5/30/14 | 566.06 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 567.10 | Dynamic | 2543.34 | Sierrita EDMS |
| | | 6/9/14 | 567.10 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 569.00 | Dynamic | 2541.44 | Sierrita EDMS |
| | | 7/6/14 | 568.04 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 571.10 | Dynamic | 2539.34 | Sierrita EDMS |
| | | 7/31/14 | 571.10 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 572.90 | Dynamic | 2537.54 | Sierrita EDMS |
| | | 8/27/14 | 572.90 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 564.20 | Static | 2546.24 | Sierrita EDMS |
| | | 10/1/14 | 563.24 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 577.80 | Dynamic | 2532.64 | Sierrita EDMS |
| | | 11/4/14 | 576.84 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | 578.62 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 581.40 | Dynamic | 2529.04 | Sierrita EDMS |
| | | 2/4/15 | | 582.15 | Dynamic | 2528.29 | Sierrita EDMS |
| | | 3/3/15 | | 583.40 | Dynamic | 2527.04 | Sierrita EDMS |
| | | 4/9/15 | | 584.75 | Dynamic | 2525.69 | Sierrita EDMS |
| | | 5/2/15 | | 585.70 | Dynamic | 2524.74 | Sierrita EDMS |
| | | 7/6/15 | | 587.75 | Dynamic | 2522.69 | Sierrita EDMS |
| | | 8/18/15 | | 588.94 | Dynamic | 2521.50 | Sierrita EDMS |
| | | 10/7/15 | | 590.60 | Dynamic | 2519.84 | Sierrita EDMS |
| | | 11/4/15 | | 588.95 | Dynamic | 2521.49 | Sierrita EDMS |
| | | 12/9/15 | | 592.80 | Dynamic | 2517.64 | Sierrita EDMS |
| FICO C-4 | 2836.19 | 6/19/15 | | 262.70 | Dynamic | 2573.49 | Sierrita EDMS |
| | | 11/24/15 | | Obstruction | Static | NA | |
| FICO E-6 | 2841.16 | 6/19/15 | | 259.31 | Dynamic | 2581.85 | Sierrita EDMS |
| | | 11/24/15 | | 232.65 | Static | 2608.51 | |
| GV-01-GVDWID | 2942.35 | 1/9/07 | | 221.00 | | 2721.35 | Sierrita EDMS |
| | | 4/10/07 | | 218.11 | | 2724.24 | |
| | | 8/6/07 | | 231.00 | | 2711.35 | |
| | | 1/7/08 | | 221.50 | | 2720.85 | |
| | | 4/16/08 | | 225.50 | | 2716.85 | |
| | | 7/7/08 | | 231.00 | | 2711.35 | |
| | | 11/25/08 | | 228.00 | | 2714.35 | |
| | | 3/3/09 | | 220.50 | | 2721.85 | |
| | | 7/29/09 | | 201.9 | | 2740.45 | |
| | | 11/4/09 | | 232.80 | | 2709.55 | |
| | | 1/27/10 | | 224.80 | | 2717.55 | |
| | | 4/1/10 | | 227.12 | | 2715.23 | |
| | | 10/14/10 | | 233.00 | | 2709.35 | |
| | | 3/18/11 | | 224.00 | | 2718.35 | |
| | | 4/28/11 | | 231.00 | | 2711.35 | |
| | | 12/7/11 | | 233.20 | | 2709.15 | |
| | | 3/14/12 | | 234.25 | | 2708.10 | |
| | | 6/7/12 | | 242.28 | | 2700.07 | |
| | | 8/29/12 | | 231.00 | | 2711.35 | |
| | | 11/15/12 | | 239.00 | | 2703.35 | |
| | | 1/29/13 | | 238.61 | | 2703.74 | |
| | | 5/16/13 | | 254.09 | | 2688.26 | |
| | | 7/11/13 | | 248.19 | | 2694.16 | |
| | | 7/21/14 | | 229.00 | | 2713.35 | |
| | | 10/14/14 | | 257.60 | Static | 2684.75 | |
| | | 1/12/15 | | 255.60 | Static[1] | 2686.75 | |
| | | 7/22/15 | | 261.03 | Static[1] | 2681.32 | |
| | | 10/21/15 | | 354.60 | Dynamic | 2587.75 | |
| GV-01-PCWW | 2780 | 4/2/15 | | 176.50 | Static | 2603.50 | Sierrita EDMS |
| | | 10/20/15 | | 176.70 | Static | 2603.30 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| GV-02-GVDWID | 2930.47 | 1/9/07 | | 185.30 | | 2745.17 | Sierrita EDMS |
| | | 4/10/07 | | 187.10 | | 2743.37 | |
| | | 7/11/07 | | 200.45 | | 2730.02 | |
| | | 10/3/07 | | 199.33 | | 2731.14 | |
| | | 1/7/08 | | 190.62 | | 2739.85 | |
| | | 4/16/08 | | 194.95 | | 2735.52 | |
| | | 7/7/08 | | 201.05 | | 2729.42 | |
| | | 11/25/08 | | 199.58 | | 2730.89 | |
| | | 2/4/09 | | 192.88 | | 2737.59 | |
| | | 7/29/09 | | 231.9 | | 2698.57 | |
| | | 11/4/09 | | 203.50 | | 2726.97 | |
| | | 1/27/10 | | 195.15 | | 2735.32 | |
| | | 4/1/10 | | 197.10 | | 2733.37 | |
| | | 7/28/10 | | 202.76 | | 2727.71 | |
| | | 10/14/10 | | 204.55 | | 2725.92 | |
| | | 1/20/11 | | 198.88 | | 2731.59 | |
| | | 4/28/11 | | 204.77 | | 2725.70 | |
| | | 7/20/11 | | 206.14 | | 2724.33 | |
| | | 12/7/11 | | 204.43 | | 2726.04 | |
| | | 3/14/12 | | 204.35 | | 2726.12 | |
| | | 6/7/12 | | 211.76 | | 2718.71 | |
| | | 8/29/12 | | 219.00 | | 2711.47 | |
| | | 11/15/12 | | 214.51 | | 2715.96 | |
| | | 1/29/13 | | 209.49 | | 2720.98 | |
| | | 5/16/13 | | 219.48 | | 2710.99 | |
| | | 7/11/13 | | 220.75 | | 2709.72 | |
| | | 1/10/14 | | 221.29 | | 2709.18 | |
| | | 10/14/14 | | 229.70 | Static | 2700.77 | |
| | | 1/12/15 | | 221.90 | Static[1] | 2708.57 | |
| | | 4/15/15 | | 223.10 | Static[1] | 2707.37 | |
| | | 10/21/15 | | 229.80 | Static[1] | 2700.67 | |
| GV-02-PCWW | 2780 | 4/2/15 | | 164.30 | Static | 2615.7 | Sierrita EDMS |
| | | 10/20/15 | | 164.20 | Static | 2615.8 | |
| GV-SI-GVDWID | 3042.65 | 01/09/07 | | 237.50 | | 2805.15 | Sierrita EDMS |
| | | 04/10/07 | | 238.55 | | 2804.10 | |
| | | 08/06/07 | | 240.31 | | 2802.34 | |
| | | 10/03/07 | | 244.40 | | 2798.25 | |
| | | 01/07/08 | | 237.75 | | 2804.90 | |
| | | 04/16/08 | | 247.55 | | 2795.10 | |
| | | 8/14/08 | | 245.50 | | 2797.15 | |
| | | 11/6/08 | | 246.00 | | 2796.65 | |
| | | 2/4/09 | | 247.46 | | 2795.19 | |
| | | 4/1/10 | | 247.60 | | 2795.05 | |
| | | 4/28/11 | | 257.00 | | 2785.65 | |
| | | 6/20/12 | | 257.92 | | 2784.73 | |
| | | 5/16/13 | | 267.53 | | 2775.12 | |
| | | 4/15/15 | | 274.38 | | 2768.27 | |
| | | 10/21/15 | | 269.46 | | 2773.19 | |
| HAVEN GOLF | ND | 5/29/12 | | 220.00 | | NA | Sierrita EDMS |
| I-10 | 3210.58 | 1/15/07 | | 655.89 | | 2554.69 | Sierrita EDMS |
| | | 4/16/07 | | 630.00 | | 2580.58 | |
| | | 7/10/07 | | 656.00 | | 2554.58 | |
| | | 1/8/08 | | 659.58 | | 2551.00 | |
| | | 4/14/08 | | 658.80 | | 2551.78 | |
| | | 7/21/08 | | 657.10 | | 2553.48 | |
| | | 10/24/08 | | 660.82 | | 2549.76 | |
| | | 5/12/09 | | 660.80 | | 2549.78 | |
| | | 6/15/12 | | 662.39 | | 2548.19 | |
| | | 6/11/13 | | 661.26 | | 2549.32 | |
| | | 4/30/14 | | 668.91 | Dynamic | 2541.67 | |
| | | 9/11/14 | | 670.20 | | 2540.38 | |
| | | 5/14/15 | | 687.57 | Static | 2523.01 | |
| | | 11/18/15 | | 695.41 | Static | 2515.17 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-1 | 3144.69 | 1/14/06 | 379.80 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 380.29 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 379.27 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 379.95 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 383.00 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 383.60 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 382.53 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 383.30 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 382.20 | | Dynamic | | BasinWells, 2015a |
| | | 10/21/06 | 381.32 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 383.80 | | Dynamic | | BasinWells, 2015a |
| | | 12/16/06 | | 360.95 | | 2783.74 | Sierrita EDMS |
| | | 12/16/06 | 360.95 | | Static | | BasinWells, 2015a |
| | | 1/25/07 | 385.10 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 386.70 | | 2757.99 | Sierrita EDMS |
| | | 2/24/07 | 386.70 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 388.20 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 390.55 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 391.70 | | Dynamic | | BasinWells, 2015a |
| | | 6/26/07 | 394.05 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/07 | 402.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/19/07 | | 399.90 | | 2744.79 | Sierrita EDMS |
| | | 11/29/07 | 402.45 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 400.45 | | 2744.24 | Sierrita EDMS |
| | | 1/29/08 | 400.45 | | Dynamic | | BasinWells, 2015a |
| | | 2/29/08 | 400.25 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 398.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/7/08 | | 398.90 | | 2745.79 | Sierrita EDMS |
| | | 5/27/08 | 402.00 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 405.35 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 405.85 | | 2738.84 | Sierrita EDMS |
| | | 7/29/08 | 405.85 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 404.00 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 404.44 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 404.80 | | 2739.89 | Sierrita EDMS |
| | | 10/24/08 | 404.08 | | Dynamic | | BasinWells, 2015a |
| | | 1/21/09 | | 400 | | 2744.69 | Sierrita EDMS |
| | | 3/10/09 | 370.50 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 370.50 | | 2774.19 | Sierrita EDMS |
| | | 5/13/09 | 397.50 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 396.40 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 394.45 | | 2750.24 | Sierrita EDMS |
| | | 3/9/11 | 370.98 | | Static | | BasinWells, 2015a |
| | | 4/15/11 | 370.92 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 392.80 | | 2751.89 | Sierrita EDMS |
| | | 5/11/11 | 392.90 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 391.25 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 372.75 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 369.54 | | Static | | BasinWells, 2015a |
| | | 12/29/11 | 439.80 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 440.54 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 369.94 | | Static | | BasinWells, 2015a |
| | | 3/30/12 | 438.73 | | Dynamic | | BasinWells, 2015a |
| | | 5/21/12 | | 438.48 | | 2706.21 | Sierrita EDMS |
| | | 5/21/12 | 438.48 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 380.00 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 431.11 | | Dynamic | | BasinWells, 2015a |
| | | 8/21/12 | 379.84 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 442.81 | | Dynamic | | BasinWells, 2015a |
| | | 10/25/12 | 382.39 | | Static | | BasinWells, 2015a |
| | | 11/28/12 | 442.71 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 439.81 | Dynamic | 2704.88 | Sierrita EDMS |
| | | 6/24/13 | 384.67 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 443.70 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 384.56 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 444.16 | | Dynamic | | BasinWells, 2015a |
| | | 10/31/13 | 391.01 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 472.29 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 391.38 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 461.65 | Dynamic | 2683.04 | Sierrita EDMS |
| | | 1/28/14 | 461.65 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | | 392.49 | Dynamic | 2752.20 | Sierrita EDMS |
| | | 2/24/14 | 392.49 | | Static | | BasinWells, 2015a |
| | | 3/25/14 | | 393.89 | Dynamic | 2750.80 | Sierrita EDMS |
| | | 3/31/14 | 393.89 | | Static | | BasinWells, 2015a |
| | | 4/25/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 5/30/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 6/5/14 | | 445.60 | Dynamic | 2699.09 | Sierrita EDMS |
| | | 6/5/14 | 445.60 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 387.90 | Dynamic | 2756.79 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-1 | 3144.69 | 7/6/14 | 387.19 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 441.90 | Dynamic | 2702.79 | Sierrita EDMS |
| | | 7/31/14 | 441.90 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 383.00 | Dynamic | 2761.69 | Sierrita EDMS |
| | | 8/27/14 | 383.00 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 445.50 | Dynamic | 2699.19 | Sierrita EDMS |
| | | 10/1/14 | 444.79 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 443.90 | Dynamic | 2700.79 | Sierrita EDMS |
| | | 11/4/14 | 443.19 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 446.60 | Dynamic | 2698.09 | Sierrita EDMS |
| | | 12/2/14 | 445.89 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 443.90 | Dynamic | 2700.79 | Sierrita EDMS |
| | | 5/2/15 | | 382.95 | Static | 2761.74 | Sierrita EDMS |
| | | 6/11/15 | | 442.50 | Dynamic | 2702.19 | Sierrita EDMS |
| | | 7/8/15 | | 442.15 | Dynamic | 2702.54 | Sierrita EDMS |
| | | 10/7/15 | | 444.25 | Dynamic | 2700.44 | Sierrita EDMS |
| | | 11/4/15 | | 444.15 | Dynamic | 2700.54 | Sierrita EDMS |
| | | 12/9/15 | | 391.10 | Static | 2753.59 | Sierrita EDMS |
| IW-2 | 3098.29 | 12/16/06 | | 404.30 | | 2693.99 | Sierrita EDMS |
| | | 2/24/07 | | 406.80 | | 2691.49 | |
| | | 5/4/07 | | 344.00 | | 2754.29 | |
| | | 7/31/07 | | 381.00 | | 2717.29 | |
| IW-2A | 3112.28 | 2/5/08 | 351.52 | | Static | | BasinWells, 2015a |
| | | 2/5/08 | 392.32 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 412.80 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/08 | | 412.90 | | 2699.38 | Sierrita EDMS |
| | | 4/30/08 | 412.90 | | Dynamic | | BasinWells, 2015a |
| | | 3/10/09 | 358.20 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 358.80 | | 2753.48 | Sierrita EDMS |
| | | 4/12/10 | | 410.18 | | 2702.10 | Sierrita EDMS |
| | | 3/9/11 | 396.82 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 358.88 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 394.91 | | 2717.37 | Sierrita EDMS |
| | | 5/11/11 | 394.91 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 395.50 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 361.00 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 398.38 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 404.13 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 404.22 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 365.63 | | Static | | BasinWells, 2015a |
| | | 5/21/12 | | 404.32 | | 2707.96 | Sierrita EDMS |
| | | 5/21/12 | 404.32 | | Dynamic | | BasinWells, 2015a |
| | | 8/21/12 | 369.52 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 417.08 | | Dynamic | | BasinWells, 2015a |
| | | 10/25/12 | 374.18 | | Static | | BasinWells, 2015a |
| | | 11/28/12 | 423.40 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 370.91 | Dynamic | 2741.37 | Sierrita EDMS |
| | | 6/24/13 | 376.98 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 424.16 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 376.86 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 424.21 | | Dynamic | | BasinWells, 2015a |
| | | 10/31/13 | 383.28 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 425.78 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 382.12 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 439.64 | Dynamic | 2672.64 | Sierrita EDMS |
| | | 1/28/14 | 439.64 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | | 384.22 | Dynamic | 2728.06 | Sierrita EDMS |
| | | 2/24/14 | 384.22 | | Static | | BasinWells, 2015a |
| | | 3/25/14 | | 440.29 | Dynamic | 2671.99 | Sierrita EDMS |
| | | 3/31/14 | 440.29 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/14 | | 384.28 | Dynamic | 2728.00 | Sierrita EDMS |
| | | 5/30/14 | | 440.37 | Dynamic | 2671.91 | Sierrita EDMS |
| | | 5/30/14 | 440.37 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 429.35 | Dynamic | 2682.93 | Sierrita EDMS |
| | | 6/9/14 | 429.35 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 379.90 | Dynamic | 2732.38 | Sierrita EDMS |
| | | 7/6/14 | 379.44 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 423.50 | Dynamic | 2688.78 | Sierrita EDMS |
| | | 7/31/14 | 423.50 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 377.70 | Dynamic | 2734.58 | Sierrita EDMS |
| | | 8/27/14 | 377.70 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 377.60 | Dynamic | 2734.68 | Sierrita EDMS |
| | | 10/1/14 | 377.14 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 420.10 | Dynamic | 2692.18 | Sierrita EDMS |
| | | 11/4/14 | 419.64 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 422.20 | Dynamic | 2690.08 | Sierrita EDMS |
| | | 4/9/15 | | 412.00 | Dynamic | 2700.28 | Sierrita EDMS |
| | | 5/2/15 | | 413.80 | Dynamic | 2698.48 | Sierrita EDMS |
| | | 6/11/15 | | 410.00 | Dynamic | 2702.28 | Sierrita EDMS |
| | | 7/8/15 | | 412.50 | Dynamic | 2699.78 | Sierrita EDMS |
| | | 10/7/15 | | 411.90 | Dynamic | 2700.38 | Sierrita EDMS |
| | | 11/4/15 | | 408.90 | Dynamic | 2703.38 | Sierrita EDMS |
| | | 12/9/15 | | 380.90 | Static | 2731.38 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-3A | 3121.45 | 1/14/06 | 410.83 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 408.25 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 410.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 401.60 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 391.75 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 385.50 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 379.42 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 369.11 | | Dynamic | | BasinWells, 2015a |
| | | 10/21/06 | 432.25 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 431.80 | | Dynamic | | BasinWells, 2015a |
| | | 12/5/06 | | 431.80 | | 2689.65 | Sierrita EDMS |
| | | 1/25/07 | 431.00 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | 440.00 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 440.60 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 439.30 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 436.22 | | Dynamic | | BasinWells, 2015a |
| | | 6/26/07 | 436.00 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 381.50 | | 2739.95 | Sierrita EDMS |
| | | 8/29/07 | 430.20 | | Dynamic | | BasinWells, 2015a |
| | | 10/19/07 | | 427.80 | | 2693.65 | Sierrita EDMS |
| | | 11/29/07 | 427.40 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 425.60 | | 2695.85 | Sierrita EDMS |
| | | 1/29/08 | 425.60 | | Dynamic | | BasinWells, 2015a |
| | | 2/29/08 | 423.80 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/08 | | 421.30 | | 2700.15 | Sierrita EDMS |
| | | 4/30/08 | 421.30 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 425.20 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 420.90 | | 2700.55 | Sierrita EDMS |
| | | 7/29/08 | 420.90 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 413.90 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 414.22 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 141.50 | | 2979.95 | Sierrita EDMS |
| | | 10/24/08 | 414.50 | | Dynamic | | BasinWells, 2015a |
| | | 5/13/09 | 413.30 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 410.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 420.23 | | 2701.22 | Sierrita EDMS |
| | | 3/9/11 | 402.95 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 378.58 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 413.40 | | 2708.05 | Sierrita EDMS |
| | | 5/11/11 | 413.40 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 415.70 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 377.59 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 416.08 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 419.50 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 419.34 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 381.70 | | Static | | BasinWells, 2015a |
| | | 3/30/12 | 409.57 | | Dynamic | | BasinWells, 2015a |
| | | 6/20/12 | | 401.37 | | 2720.08 | Sierrita EDMS |
| | | 6/27/12 | 383.95 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 429.81 | | Dynamic | | BasinWells, 2015a |
| | | 8/21/12 | 388.48 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 449.48 | | Dynamic | | BasinWells, 2015a |
| | | 10/25/12 | 394.88 | | Static | | BasinWells, 2015a |
| | | 11/28/12 | 450.08 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/13 | | 449.56 | Dynamic | 2671.89 | Sierrita EDMS |
| | | 6/24/13 | 398.14 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 451.92 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 397.74 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 452.32 | | Dynamic | | BasinWells, 2015a |
| | | 10/30/13 | 410.79 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 453.60 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 409.38 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 455.66 | Dynamic | 2665.79 | Sierrita EDMS |
| | | 1/28/14 | 455.66 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | | 408.59 | Static | 2712.86 | Sierrita EDMS |
| | | 2/24/14 | 408.59 | | Static | | BasinWells, 2015a |
| | | 3/25/14 | | 454.96 | Dynamic | 2666.49 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-3A | 3121.45 | 3/31/14 | 454.96 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/14 | | 403.99 | Dynamic | 2717.46 | Sierrita EDMS |
| | | 5/30/14 | | 454.72 | Dynamic | 2666.73 | Sierrita EDMS |
| | | 5/30/14 | 454.72 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 446.10 | Dynamic | 2675.35 | Sierrita EDMS |
| | | 6/9/14 | 446.10 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 398.60 | Static | 2722.85 | Sierrita EDMS |
| | | 7/6/14 | 397.89 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 441.40 | Dynamic | 2680.05 | Sierrita EDMS |
| | | 7/31/14 | 441.40 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 394.90 | Static | 2726.55 | Sierrita EDMS |
| | | 8/27/14 | 394.90 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 451.05 | Dynamic | 2670.40 | Sierrita EDMS |
| | | 10/1/14 | 450.34 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 442.75 | Dynamic | 2678.70 | Sierrita EDMS |
| | | 11/4/14 | 442.04 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 446.10 | Dynamic | 2675.35 | Sierrita EDMS |
| | | 4/9/15 | | 440.60 | Dynamic | 2680.85 | Sierrita EDMS |
| | | 5/2/15 | | 444.80 | Dynamic | 2676.65 | Sierrita EDMS |
| | | 6/11/15 | | 441.00 | Dynamic | 2680.45 | Sierrita EDMS |
| | | 7/8/15 | | 444.20 | Dynamic | 2677.25 | Sierrita EDMS |
| | | 10/7/15 | | 444.65 | Dynamic | 2676.80 | Sierrita EDMS |
| | | 11/4/15 | | 442.65 | Dynamic | 2678.80 | Sierrita EDMS |
| | | 12/9/15 | | 402.55 | Static | 2718.90 | Sierrita EDMS |
| IW-4 | 3137.06 | 1/14/06 | 495.10 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 419.27 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 385.75 | | Static | | BasinWells, 2015a |
| | | 4/15/06 | 424.75 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 419.70 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 420.36 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 422.05 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 420.30 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 417.30 | | Dynamic | | BasinWells, 2015a |
| | | 10/21/06 | 415.75 | | Dynamic | | BasinWells, 2015a |
| | | 11/10/06 | 417.25 | | Dynamic | | BasinWells, 2015a |
| | | 12/16/06 | 416.20 | | Dynamic | | BasinWells, 2015a |
| | | 1/17/07 | 379.65 | | Static | | BasinWells, 2015a |
| | | 2/24/07 | | 417.70 | | 2719.36 | Sierrita EDMS |
| | | 2/24/07 | 417.70 | | Dynamic | | BasinWells, 2015a |
| | | 3/19/07 | 417.80 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 422.50 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 423.55 | | Dynamic | | BasinWells, 2015a |
| | | 6/26/07 | 424.30 | | Dynamic | | BasinWells, 2015a |
| | | 7/21/07 | | 425.30 | | 2711.76 | Sierrita EDMS |
| | | 7/21/07 | 425.30 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/07 | 427.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/19/07 | | 428.90 | | 2708.16 | Sierrita EDMS |
| | | 11/28/07 | 434.05 | | Dynamic | | BasinWells, 2015a |
| | | 1/19/08 | | 433.70 | | 2703.36 | Sierrita EDMS |
| | | 1/29/08 | 433.70 | | Dynamic | | BasinWells, 2015a |
| | | 2/29/08 | 437.50 | | Dynamic | | BasinWells, 2015a |
| | | 4/21/08 | | 441.90 | | 2695.16 | Sierrita EDMS |
| | | 4/30/08 | 441.90 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 409.22 | | 2727.84 | Sierrita EDMS |
| | | 7/29/08 | 409.22 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 448.50 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 449.75 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 452.10 | | 2684.96 | Sierrita EDMS |
| | | 10/24/08 | 452.10 | | Dynamic | | BasinWells, 2015a |
| | | 1/21/09 | | 453 | | 2684.06 | Sierrita EDMS |
| | | 3/10/09 | 383.20 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 383.20 | | 2753.86 | Sierrita EDMS |
| | | 5/13/09 | 455.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/21/09 | 421.50 | | | | BasinWells, 2015a |
| | | 12/15/09 | 419.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 420.70 | | 2716.36 | Sierrita EDMS |
| | | 3/10/11 | 426.33 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 377.11 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 414.25 | | 2722.81 | Sierrita EDMS |
| | | 5/11/11 | 414.25 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 409.23 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 379.00 | | Static | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-4 | 3137.06 | 8/23/11 | 406.05 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 407.19 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 409.42 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 381.88 | | Static | | BasinWells, 2015a |
| | | 3/30/12 | 408.98 | | Dynamic | | BasinWells, 2015a |
| | | 5/21/12 | | 402.19 | | 2734.87 | Sierrita EDMS |
| | | 5/21/12 | 402.19 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 386.94 | | Static | | BasinWells, 2015a |
| | | 8/21/12 | 388.60 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 403.20 | | Dynamic | | BasinWells, 2015a |
| | | 10/25/12 | 388.42 | | Static | | BasinWells, 2015a |
| | | 11/28/12 | 408.98 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 402.34 | Dynamic | 2734.72 | Sierrita EDMS |
| | | 6/24/13 | 390.86 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 411.10 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 390.61 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 410.90 | | Dynamic | | BasinWells, 2015a |
| | | 10/30/13 | 394.62 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 414.08 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 393.74 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 410.69 | Dynamic | 2726.37 | Sierrita EDMS |
| | | 1/28/14 | 410.69 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | | 393.32 | Static | 2743.74 | Sierrita EDMS |
| | | 2/24/14 | 393.32 | | Static | | BasinWells, 2015a |
| | | 3/25/14 | | 410.27 | Dynamic | 2726.79 | Sierrita EDMS |
| | | 3/31/14 | 410.27 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/14 | | 390.98 | Dynamic | 2746.08 | Sierrita EDMS |
| | | 5/30/14 | | 410.30 | Dynamic | 2726.76 | Sierrita EDMS |
| | | 5/30/14 | 410.30 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 408.10 | Dynamic | 2728.96 | Sierrita EDMS |
| | | 6/9/14 | 408.10 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 388.15 | Static | 2748.91 | Sierrita EDMS |
| | | 7/6/14 | 387.44 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 427.20 | Dynamic | 2709.86 | Sierrita EDMS |
| | | 7/31/14 | 427.20 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 388.20 | Static | 2748.86 | Sierrita EDMS |
| | | 8/27/14 | 388.20 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | Insufficient Flow | | NA | Sierrita EDMS |
| | | 11/4/14 | | 426.05 | Dynamic | 2711.01 | Sierrita EDMS |
| | | 11/4/14 | 425.34 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 424.10 | Dynamic | 2712.96 | Sierrita EDMS |
| | | 4/9/15 | | 385.05 | Static | 2752.01 | Sierrita EDMS |
| | | 5/2/15 | | 388.90 | Static | 2748.16 | Sierrita EDMS |
| | | 6/11/15 | | 422.10 | Dynamic | 2714.96 | Sierrita EDMS |
| | | 7/8/15 | | 390.88 | Static | 2746.18 | Sierrita EDMS |
| | | 10/7/15 | | UTM | Dynamic | NA | Sierrita EDMS |
| | | 11/4/15 | | 392.20 | Static | 2744.86 | Sierrita EDMS |
| | | 12/9/15 | | 391.00 | Static | 2746.06 | Sierrita EDMS |
| IW-5 | 3137.65 | 5/13/09 | | 375.90 | | 2761.75 | Sierrita EDMS |
| | | 4/12/10 | | 430.60 | | 2707.05 | |
| IW-5A | 3091.47 | 8/18/10 | 413.90 | | Dynamic | | BasinWells, 2015a |
| | | 8/18/10 | 377.50 | | Static | | BasinWells, 2015a |
| | | 4/15/11 | 377.25 | | Static | | BasinWells, 2015a |
| | | 6/27/11 | 416.52 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 379.31 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 383.44 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 421.55 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 421.04 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 380.65 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 426.14 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 468.65 | | 2622.82 | Sierrita EDMS |
| | | 5/22/12 | 468.65 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/12 | 452.38 | | Dynamic | | BasinWells, 2015a |
| | | 8/21/12 | 388.09 | | Static | | BasinWells, 2015a |
| | | 10/25/12 | 389.56 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 512.20 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 514.20 | Dynamic | 2577.27 | Sierrita EDMS |
| | | 6/24/13 | 388.89 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 514.18 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 388.64 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 514.02 | | Dynamic | | BasinWells, 2015a |
| | | 10/30/13 | 392.27 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 516.11 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 390.72 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | 531.51 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 531.51 | Dynamic | 2559.96 | Sierrita EDMS |
| | | 2/24/14 | | 390.02 | Static | 2701.45 | Sierrita EDMS |
| | | 2/24/14 | 390.02 | | Static | | BasinWells, 2015a |
| | | 3/24/14 | | Obstructed | | | Sierrita EDMS |
| | | 4/25/14 | | 389.58 | Dynamic | 2701.89 | Sierrita EDMS |
| | | 5/30/14 | | 511.90 | Dynamic | 2579.57 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-5A | 3091.47 | 5/30/14 | 511.90 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 621.00 | Dynamic | 2470.47 | Sierrita EDMS |
| | | 6/9/14 | 621.00 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 387.80 | Static | 2703.67 | Sierrita EDMS |
| | | 7/6/14 | 387.30 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 387.30 | Static | 2704.17 | Sierrita EDMS |
| | | 7/31/14 | 387.30 | | Static | | BasinWells, 2015a |
| | | 8/27/14 | | 386.30 | Static | 2705.17 | Sierrita EDMS |
| | | 8/27/14 | 386.30 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 386.75 | Static | 2704.72 | Sierrita EDMS |
| | | 10/1/14 | 386.25 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 389.10 | Static | 2702.37 | Sierrita EDMS |
| | | 11/4/14 | 388.60 | | Static | | BasinWells, 2015a |
| | | 12/2/14 | | 389.80 | Static | 2701.67 | Sierrita EDMS |
| | | 4/9/15 | | 388.75 | Static | 2702.72 | Sierrita EDMS |
| | | 5/2/15 | | 390.00 | Static | 2701.47 | Sierrita EDMS |
| | | 6/11/15 | | 390.05 | Static | 2701.42 | Sierrita EDMS |
| | | 7/8/15 | | 391.80 | Static | 2699.67 | Sierrita EDMS |
| | | 10/7/15 | | 392.05 | Static | 2699.42 | Sierrita EDMS |
| | | 11/4/15 | | 391.20 | Static | 2700.27 | Sierrita EDMS |
| | | 12/9/15 | | 392.80 | Static | 2698.67 | Sierrita EDMS |
| IW-6A | 3132.26 | 1/14/06 | 415.90 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 409.20 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 424.68 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 422.90 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 410.09 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 407.04 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 412.00 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 412.98 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 413.80 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 438.70 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 425.00 | | Dynamic | | BasinWells, 2015a |
| | | 11/15/06 | | 425.00 | | 2707.26 | Sierrita EDMS |
| | | 12/16/06 | 433.30 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 432.60 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 433.60 | | 2698.66 | Sierrita EDMS |
| | | 2/24/07 | 433.60 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 432.90 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 430.33 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 433.00 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 431.75 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 432.28 | | 2699.98 | Sierrita EDMS |
| | | 8/29/07 | 433.90 | | Dynamic | | BasinWells, 2015a |
| | | 10/17/07 | | 433.35 | | 2698.91 | Sierrita EDMS |
| | | 11/29/07 | 421.90 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 416.90 | | 2715.36 | Sierrita EDMS |
| | | 1/29/08 | 416.90 | | Dynamic | | BasinWells, 2015a |
| | | 2/29/08 | 415.85 | | Dynamic | | BasinWells, 2015a |
| | | 4/22/08 | | 415.45 | | 2716.81 | Sierrita EDMS |
| | | 4/30/08 | 415.45 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 416.82 | | 2715.44 | Sierrita EDMS |
| | | 7/29/08 | 416.82 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 418.65 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 419.00 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 419.33 | | 2712.93 | Sierrita EDMS |
| | | 10/24/08 | 419.33 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 418 | | 2714.26 | Sierrita EDMS |
| | | 3/10/09 | 387.30 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 387.30 | | 2744.96 | Sierrita EDMS |
| | | 5/13/09 | 417.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 415.20 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 384.70 | | 2747.56 | Sierrita EDMS |
| | | 3/9/11 | 408.45 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 383.52 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 410.61 | | 2721.65 | Sierrita EDMS |
| | | 5/11/11 | 410.61 | | Dynamic | | BasinWells, 2015a |
| | | 6/29/11 | 411.24 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 384.23 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 411.45 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 388.75 | | Static | | BasinWells, 2015a |
| | | 1/26/12 | 413.41 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 419.75 | | 2712.51 | Sierrita EDMS |
| | | 5/22/12 | 419.75 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/12 | 429.91 | | Dynamic | | BasinWells, 2015a |
| | | 9/26/12 | 435.34 | | Dynamic | | BasinWells, 2015a |
| | | 10/25/12 | 400.84 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 436.72 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 433.21 | Dynamic | 2699.05 | Sierrita EDMS |
| | | 6/24/13 | 404.24 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 439.11 | | Dynamic | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-6A | 3132.26 | 8/1/13 | 404.22 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 439.14 | | Dynamic | | BasinWells, 2015a |
| | | 10/29/13 | 406.02 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 440.29 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 405.19 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 435.59 | Dynamic | 2696.67 | Sierrita EDMS |
| | | 1/28/14 | 435.64 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | | 407.02 | Static | 2725.24 | Sierrita EDMS |
| | | 2/24/14 | 407.02 | | Static | | BasinWells, 2015a |
| | | 3/24/14 | | 432.16 | Dynamic | 2700.10 | Sierrita EDMS |
| | | 3/31/14 | 432.16 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/14 | | 408.39 | Dynamic | 2723.87 | Sierrita EDMS |
| | | 5/30/14 | | 431.90 | Dynamic | 2700.36 | Sierrita EDMS |
| | | 5/30/14 | 431.90 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 435.40 | Dynamic | 2696.86 | Sierrita EDMS |
| | | 6/9/14 | 435.40 | | Dynamic | | BasinWells, 2015a |
| | | 7/7/14 | | 435.40 | Dynamic | 2696.86 | Sierrita EDMS |
| | | 7/7/14 | 434.98 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 438.80 | Dynamic | 2693.46 | Sierrita EDMS |
| | | 7/31/14 | 438.80 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 403.40 | Static | 2728.86 | Sierrita EDMS |
| | | 8/27/14 | 403.40 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 435.70 | Dynamic | 2696.56 | Sierrita EDMS |
| | | 10/1/14 | 435.28 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 436.00 | Dynamic | 2696.26 | Sierrita EDMS |
| | | 11/4/14 | 435.58 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 436.00 | Dynamic | 2696.26 | Sierrita EDMS |
| | | 4/9/15 | | 404.30 | Static | 2727.96 | Sierrita EDMS |
| | | 5/2/15 | | 403.80 | Static | 2728.46 | Sierrita EDMS |
| | | 6/11/15 | | 403.80 | Static | 2728.46 | Sierrita EDMS |
| | | 7/18/15 | | 407.30 | Static | 2724.96 | Sierrita EDMS |
| | | 10/7/15 | | UTM | Static | NA | Sierrita EDMS |
| | | 11/4/15 | | 410.60 | Static | 2721.66 | Sierrita EDMS |
| | | 12/9/15 | | 413.30 | Static | 2718.96 | Sierrita EDMS |
| IW-8 | 3122.19 | 1/14/06 | 462.10 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 456.60 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 461.30 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 460.25 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 460.75 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 465.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/19/06 | 359.29 | | Static | | BasinWells, 2015a |
| | | 10/19/06 | 386.40 | | Dynamic | | BasinWells, 2015a |
| | | 12/16/06 | 435.88 | | Dynamic | | BasinWells, 2015a |
| | | 1/19/07 | 428.30 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 434.05 | | 2688.14 | Sierrita EDMS |
| | | 2/24/07 | 434.05 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 437.37 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 444.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 440.60 | | Dynamic | | BasinWells, 2015a |
| | | 6/26/07 | 442.35 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 438.75 | | 2683.44 | Sierrita EDMS |
| | | 8/29/07 | 439.00 | | Dynamic | | BasinWells, 2015a |
| | | 10/19/07 | | 436.80 | | 2685.39 | Sierrita EDMS |
| | | 11/29/07 | 435.00 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 437.25 | | 2684.94 | Sierrita EDMS |
| | | 1/29/08 | 437.25 | | Dynamic | | BasinWells, 2015a |
| | | 2/29/08 | 436.00 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 455.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/08 | | 436.70 | | 2685.49 | Sierrita EDMS |
| | | 4/30/08 | 436.70 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 437.00 | | 2685.19 | Sierrita EDMS |
| | | 7/29/08 | 437.00 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 436.35 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 436.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 436.92 | | 2685.27 | Sierrita EDMS |
| | | 10/24/08 | 436.92 | | Dynamic | | BasinWells, 2015a |
| | | 1/21/09 | | 439 | | 2683.19 | Sierrita EDMS |
| | | 3/10/09 | 377.80 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 377.80 | | 2744.39 | Sierrita EDMS |
| | | 5/13/09 | 438.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 436.70 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 438.36 | | 2683.83 | Sierrita EDMS |
| | | 3/10/11 | 435.58 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 374.08 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 430.52 | | 2691.67 | Sierrita EDMS |
| | | 5/11/11 | 430.52 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 432.55 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 378.15 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 434.14 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 435.30 | | Dynamic | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-8 | 3122.19 | 1/26/12 | 437.51 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 381.39 | | Static | | BasinWells, 2015a |
| | | 3/30/12 | 437.32 | | Dynamic | | BasinWells, 2015a |
| | | 5/21/12 | | 438.67 | | 2683.52 | Sierrita EDMS |
| | | 5/21/12 | 438.69 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 386.50 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 441.33 | | Dynamic | | BasinWells, 2015a |
| | | 8/21/12 | 384.85 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 385.39 | | Static | | BasinWells, 2015a |
| | | 10/25/12 | 385.68 | | Static | | BasinWells, 2015a |
| | | 11/28/12 | 386.97 | | Static | | BasinWells, 2015a |
| | | 5/14/13 | | 379.15 | Dynamic | 2743.04 | Sierrita EDMS |
| | | 6/24/13 | 388.58 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 390.25 | | Static | | BasinWells, 2015a |
| | | 8/1/13 | 387.34 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 391.14 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 392.23 | | Static | | BasinWells, 2015a |
| | | 12/9/13 | 401.69 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 466.20 | Dynamic | 2655.99 | Sierrita EDMS |
| | | 1/28/14 | 466.20 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | | 400.57 | Dynamic | 2721.62 | Sierrita EDMS |
| | | 2/24/14 | 400.57 | | Static | | BasinWells, 2015a |
| | | 3/25/14 | | 392.79 | Dynamic | 2729.40 | Sierrita EDMS |
| | | 3/31/14 | 392.79 | | Static | | BasinWells, 2015a |
| | | 4/25/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 5/30/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 6/9/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 7/6/14 | | 391.10 | Dynamic | 2731.09 | Sierrita EDMS |
| | | 7/6/14 | 390.60 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 459.90 | Dynamic | 2662.29 | Sierrita EDMS |
| | | 7/31/14 | 459.90 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 389.20 | Static | 2732.99 | Sierrita EDMS |
| | | 8/27/14 | 389.20 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 452.30 | Dynamic | 2669.89 | Sierrita EDMS |
| | | 10/1/14 | 451.80 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 446.40 | Dynamic | 2675.79 | Sierrita EDMS |
| | | 11/4/14 | 445.90 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 449.00 | Dynamic | 2673.19 | Sierrita EDMS |
| | | 4/9/15 | | 443.55 | Dynamic | 2678.64 | Sierrita EDMS |
| | | 5/2/15 | | 446.95 | Dynamic | 2675.24 | Sierrita EDMS |
| | | 6/11/15 | | 444.60 | Dynamic | 2677.59 | Sierrita EDMS |
| | | 7/8/15 | | 447.78 | Dynamic | 2674.41 | Sierrita EDMS |
| | | 10/7/15 | | 443.75 | Dynamic | 2678.44 | Sierrita EDMS |
| | | 11/4/15 | | 440.60 | Dynamic | 2681.59 | Sierrita EDMS |
| | | 12/9/15 | | 394.80 | Static | 2727.39 | Sierrita EDMS |
| IW-9 | 3102.94 | 1/14/06 | 450.73 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 438.00 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 465.15 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 437.70 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 423.75 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 425.75 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 409.70 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 408.50 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 403.10 | | Dynamic | | BasinWells, 2015a |
| | | 10/21/06 | 400.40 | | Dynamic | | BasinWells, 2015a |
| | | 11/10/06 | 402.72 | | Dynamic | | BasinWells, 2015a |
| | | 11/15/06 | | 402.72 | | 2700.22 | Sierrita EDMS |
| | | 12/16/06 | 404.00 | | Dynamic | | BasinWells, 2015a |
| | | 1/17/07 | 346.62 | | Static | | BasinWells, 2015a |
| | | 2/24/07 | | 405.95 | | 2696.99 | Sierrita EDMS |
| | | 2/24/07 | 405.95 | | Dynamic | | BasinWells, 2015a |
| | | 3/19/07 | 405.90 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 408.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 407.60 | | Dynamic | | BasinWells, 2015a |
| | | 6/26/07 | 408.35 | | Dynamic | | BasinWells, 2015a |
| | | 7/21/07 | | 405.68 | | 2697.26 | Sierrita EDMS |
| | | 7/21/07 | 405.68 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/07 | 398.00 | | Dynamic | | BasinWells, 2015a |
| | | 10/19/07 | | 379.00 | | 2723.94 | Sierrita EDMS |
| | | 1/19/08 | | 491.10 | | 2611.84 | Sierrita EDMS |
| | | 1/29/08 | 491.10 | | Dynamic | | BasinWells, 2015a |
| | | 2/29/08 | 476.20 | | Dynamic | | BasinWells, 2015a |
| | | 4/21/08 | | 480.80 | | 2622.14 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-9 | 3102.94 | 4/30/08 | 480.80 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 473.00 | | 2629.94 | Sierrita EDMS |
| | | 7/29/08 | 473.00 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 478.80 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 478.29 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 475.03 | | 2627.91 | Sierrita EDMS |
| | | 10/24/08 | 475.03 | | Dynamic | | BasinWells, 2015a |
| | | 1/21/09 | | 469 | | 2633.94 | Sierrita EDMS |
| | | 3/10/09 | 357.20 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 357.20 | | 2745.74 | Sierrita EDMS |
| | | 5/13/09 | 464.60 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 434.50 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 426.67 | | 2676.27 | Sierrita EDMS |
| | | 3/9/11 | 377.51 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 348.92 | | Static | | BasinWells, 2015a |
| | | 5/26/11 | | 503.43 | | 2599.51 | Sierrita EDMS |
| | | 6/27/11 | 541.95 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 353.63 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 532.85 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 527.68 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 519.52 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 357.62 | | Static | | BasinWells, 2015a |
| | | 3/30/12 | 498.65 | | Dynamic | | BasinWells, 2015a |
| | | 5/21/12 | | 518.95 | | 2583.99 | Sierrita EDMS |
| | | 5/21/12 | 518.95 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 365.39 | | Static | | BasinWells, 2015a |
| | | 8/21/12 | 364.63 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 517.21 | | Dynamic | | BasinWells, 2015a |
| | | 10/25/12 | 365.94 | | Static | | BasinWells, 2015a |
| | | 11/28/12 | 515.27 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 502.13 | Dynamic | 2600.81 | Sierrita EDMS |
| | | 6/24/13 | 367.33 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 517.14 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 366.73 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 517.08 | | Dynamic | | BasinWells, 2015a |
| | | 10/30/13 | 376.14 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 511.24 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 374.47 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 483.69 | Dynamic | 2619.25 | Sierrita EDMS |
| | | 1/28/14 | 483.69 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | | 373.42 | Static | 2729.52 | Sierrita EDMS |
| | | 2/24/14 | 373.42 | | Static | | BasinWells, 2015a |
| | | 3/25/14 | | 455.68 | Dynamic | 2647.26 | Sierrita EDMS |
| | | 3/31/14 | 455.68 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/14 | | 366.85 | Dynamic | 2736.09 | Sierrita EDMS |
| | | 5/30/14 | | 367.02 | Static | 2735.92 | Sierrita EDMS |
| | | 5/30/14 | 367.02 | | Static | | BasinWells, 2015a |
| | | 6/9/14 | | 425.70 | Dynamic | 2677.24 | Sierrita EDMS |
| | | 6/9/14 | 425.70 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 364.20 | Static | 2738.74 | Sierrita EDMS |
| | | 7/6/14 | 363.66 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 420.70 | Dynamic | 2682.24 | Sierrita EDMS |
| | | 7/31/14 | 420.70 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 362.50 | Static | 2740.44 | Sierrita EDMS |
| | | 8/27/14 | 362.50 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 363.03 | Dynamic | 2739.91 | Sierrita EDMS |
| | | 10/1/14 | 362.49 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 360.80 | Static | 2742.14 | Sierrita EDMS |
| | | 11/4/14 | 360.26 | | Static | | BasinWells, 2015a |
| | | 12/2/14 | | 362.40 | Dynamic | 2740.54 | Sierrita EDMS |
| | | 4/9/15 | | 363.90 | Static | 2739.04 | Sierrita EDMS |
| | | 5/2/15 | | 365.45 | Static | 2737.49 | Sierrita EDMS |
| | | 6/11/15 | | 365.65 | Static | 2737.29 | Sierrita EDMS |
| | | 7/8/15 | | 367.75 | Static | 2735.19 | Sierrita EDMS |
| | | 10/7/15 | | 367.10 | Static | 2735.84 | Sierrita EDMS |
| | | 11/4/15 | | 365.87 | Static | 2737.07 | Sierrita EDMS |
| | | 12/9/15 | | 367.90 | Static | 2735.04 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-10 | 3129.64 | 2/20/06 | 459.50 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 460.50 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 468.10 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 453.00 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 490.55 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 453.40 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 458.00 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 460.60 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 458.95 | | Dynamic | | BasinWells, 2015a |
| | | 11/10/06 | 464.05 | | Dynamic | | BasinWells, 2015a |
| | | 11/15/06 | | 464.05 | | 2665.59 | Sierrita EDMS |
| | | 12/16/06 | 463.21 | | Dynamic | | BasinWells, 2015a |
| | | 1/17/07 | 370.70 | | Static | | BasinWells, 2015a |
| | | 2/24/07 | | 463.40 | | 2666.24 | Sierrita EDMS |
| | | 2/24/07 | 463.40 | | Dynamic | | BasinWells, 2015a |
| | | 3/19/07 | 466.30 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 465.60 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 464.80 | | Dynamic | | BasinWells, 2015a |
| | | 6/26/07 | 466.05 | | Dynamic | | BasinWells, 2015a |
| | | 7/21/07 | | 464.22 | | 2665.42 | Sierrita EDMS |
| | | 7/21/07 | 465.70 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/07 | 465.00 | | Dynamic | | BasinWells, 2015a |
| | | 10/18/07 | | 465.25 | | 2664.39 | Sierrita EDMS |
| | | 11/28/07 | 466.10 | | Dynamic | | BasinWells, 2015a |
| | | 1/19/08 | | 465.75 | | 2663.89 | Sierrita EDMS |
| | | 1/29/08 | 465.75 | | Dynamic | | BasinWells, 2015a |
| | | 2/29/08 | 463.75 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 464.20 | | Dynamic | | BasinWells, 2015a |
| | | 4/21/08 | | 463.29 | | 2666.35 | Sierrita EDMS |
| | | 4/30/08 | 463.29 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 464.00 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 465.35 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 466.11 | | 2663.53 | Sierrita EDMS |
| | | 7/29/08 | 466.11 | | Dynamic | | BasinWells, 2015a |
| | | 8/16/08 | 352.36 | | Static | | BasinWells, 2015a |
| | | 8/29/08 | 467.52 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 468.22 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 468.33 | | 2661.31 | Sierrita EDMS |
| | | 10/24/08 | 468.33 | | Dynamic | | BasinWells, 2015a |
| | | 1/21/09 | | 465 | | 2664.64 | Sierrita EDMS |
| | | 3/10/09 | 391.20 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 391.20 | | 2738.44 | Sierrita EDMS |
| | | 5/13/09 | 467.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 465.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 463.16 | | 2666.48 | Sierrita EDMS |
| | | 3/9/11 | 457.23 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 385.42 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 456.68 | | 2672.96 | Sierrita EDMS |
| | | 5/11/11 | 456.68 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 456.74 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 387.19 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 457.70 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 465.20 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 460.47 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 389.21 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 465.39 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 466.57 | | 2663.07 | Sierrita EDMS |
| | | 5/22/12 | 466.57 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 398.46 | | Static | | BasinWells, 2015a |
| | | 8/21/12 | 408.19 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 483.26 | | Dynamic | | BasinWells, 2015a |
| | | 10/25/12 | 411.87 | | Static | | BasinWells, 2015a |
| | | 4/15/13 | | 405.06 | Dynamic | 2724.58 | Sierrita EDMS |
| | | 6/24/13 | 413.49 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 482.88 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 413.74 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 483.33 | | Dynamic | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-10 | 3129.64 | 10/30/13 | 417.82 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 484.51 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 414.63 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | 487.15 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 487.15 | Dynamic | 2642.49 | Sierrita EDMS |
| | | 2/24/14 | | 416.79 | Static | 2712.85 | Sierrita EDMS |
| | | 2/24/14 | 416.79 | | Static | | BasinWells, 2015a |
| | | 3/24/14 | | 485.73 | Dynamic | 2643.91 | Sierrita EDMS |
| | | 3/31/14 | 485.73 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/14 | | 415.32 | Dynamic | 2714.32 | Sierrita EDMS |
| | | 5/30/14 | | 485.78 | Dynamic | 2643.86 | Sierrita EDMS |
| | | 5/30/14 | 485.78 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 480.10 | Dynamic | 2649.54 | Sierrita EDMS |
| | | 6/9/14 | 480.10 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 478.30 | Dynamic | 2651.34 | Sierrita EDMS |
| | | 7/6/14 | 477.80 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 472.30 | Dynamic | 2657.34 | Sierrita EDMS |
| | | 7/31/14 | 472.30 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | Insufficient Flow | | NA | Sierrita EDMS |
| | | 10/1/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 11/4/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 12/2/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 4/9/15 | | Obstructed | Dynamic | NA | Sierrita EDMS |
| | | 5/2/15 | | Obstructed | Dynamic | NA | Sierrita EDMS |
| | | 6/11/15 | | Obstructed | Dynamic | NA | Sierrita EDMS |
| | | 7/8/15 | | Obstructed | Dynamic | NA | Sierrita EDMS |
| | | 10/4/15 | | Obstructed | Dynamic | NA | Sierrita EDMS |
| | | 11/4/15 | | Obstructed | Dynamic | NA | Sierrita EDMS |
| | | 12/9/15 | | Obstructed | Static | NA | Sierrita EDMS |
| IW-11 | 3127.20 | 1/14/06 | 439.25 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 446.40 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 382.25 | | Static | | BasinWells, 2015a |
| | | 4/15/06 | 385.38 | | Static | | BasinWells, 2015a |
| | | 7/16/06 | 379.58 | | Static | | BasinWells, 2015a |
| | | 8/13/06 | 381.30 | | Static | | BasinWells, 2015a |
| | | 9/16/06 | 429.65 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 427.48 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 429.25 | | Dynamic | | BasinWells, 2015a |
| | | 11/21/06 | | 429.25 | | 2697.95 | Sierrita EDMS |
| | | 12/16/06 | 427.72 | | Dynamic | | BasinWells, 2015a |
| | | 1/25/07 | 428.20 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 428.05 | | 2699.15 | Sierrita EDMS |
| | | 2/24/07 | 428.05 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 429.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 428.95 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 428.82 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 429.85 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 428.50 | | 2698.70 | Sierrita EDMS |
| | | 8/29/07 | 429.80 | | Dynamic | | BasinWells, 2015a |
| | | 10/17/07 | | 430.00 | | 2697.20 | Sierrita EDMS |
| | | 11/29/07 | 429.85 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 430.00 | | 2697.20 | Sierrita EDMS |
| | | 1/29/08 | 430.00 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 428.75 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 428.50 | | Dynamic | | BasinWells, 2015a |
| | | 4/22/08 | | 428.00 | | 2699.20 | Sierrita EDMS |
| | | 4/30/08 | 428.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 424.80 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 430.55 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 430.90 | | 2696.30 | Sierrita EDMS |
| | | 7/29/08 | 430.90 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 431.80 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 432.87 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 433.01 | | 2694.19 | Sierrita EDMS |
| | | 10/24/08 | 433.01 | | Dynamic | | BasinWells, 2015a |
| | | 1/21/09 | | 429 | | 2698.20 | Sierrita EDMS |
| | | 3/10/09 | 379.70 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 379.70 | | 2747.50 | Sierrita EDMS |
| | | 5/13/09 | 429.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 424.60 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 421.14 | | 2706.06 | Sierrita EDMS |
| | | 3/9/11 | 413.68 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 375.43 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 414.21 | | 2712.99 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-11 | 3127.20 | 5/11/11 | 414.21 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 411.76 | | Dynamic | | BasinWells, 2015a |
| | | 8/23/11 | 450.45 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 452.00 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 449.33 | | Dynamic | | BasinWells, 2015a |
| | | 3/29/12 | 451.42 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 439.67 | | 2687.53 | Sierrita EDMS |
| | | 5/22/12 | 439.67 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/12 | 459.23 | | Dynamic | | BasinWells, 2015a |
| | | 8/22/12 | 392.18 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 466.43 | | Dynamic | | BasinWells, 2015a |
| | | 11/25/12 | 400.03 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 467.67 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 463.19 | Dynamic | 2664.01 | Sierrita EDMS |
| | | 6/25/13 | 400.53 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 468.40 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 400.57 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 468.46 | | Dynamic | | BasinWells, 2015a |
| | | 10/29/13 | 405.57 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 469.52 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 404.57 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | 472.74 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 472.74 | Dynamic | 2654.46 | Sierrita EDMS |
| | | 2/24/14 | 404.71 | | Static | | BasinWells, 2015a |
| | | 2/25/14 | | 404.71 | Static | 2722.49 | Sierrita EDMS |
| | | 3/24/14 | | 473.94 | Dynamic | 2653.26 | Sierrita EDMS |
| | | 3/31/14 | 473.94 | | Dynamic | | BasinWells, 2015a |
| | | 4/28/14 | | 403.28 | Dynamic | 2723.92 | Sierrita EDMS |
| | | 5/30/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 6/9/14 | | 398.70 | Static | 2728.50 | Sierrita EDMS |
| | | 6/9/14 | 398.70 | | Static | | BasinWells, 2015a |
| | | 7/7/14 | | 370.70 | Static | 2756.50 | Sierrita EDMS |
| | | 7/7/14 | 369.95 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 360.70 | Static | 2766.50 | Sierrita EDMS |
| | | 7/31/14 | 360.70 | | Static | | BasinWells, 2015a |
| | | 8/27/14 | | 338.50 | Static | 2788.70 | Sierrita EDMS |
| | | 8/27/14 | 338.50 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 339.20 | Static | 2788.00 | Sierrita EDMS |
| | | 10/1/14 | 338.45 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 12/2/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 4/9/15 | | Obstructed | Dynamic | NA | Sierrita EDMS |
| | | 5/2/15 | | 394.40 | Static | 2732.80 | Sierrita EDMS |
| | | 6/11/15 | | 503.10 | Dynamic | 2624.10 | Sierrita EDMS |
| | | 7/18/15 | | 405.75 | Static | 2721.45 | Sierrita EDMS |
| | | 10/7/15 | | UTM | Static | NA | Sierrita EDMS |
| | | 11/4/15 | | 523.40 | Dynamic | 2603.80 | Sierrita EDMS |
| | | 12/9/15 | | UTM | Static | NA | Sierrita EDMS |
| IW-12 | 3138.18 | 2/20/06 | 447.10 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 375.33 | | Static | | BasinWells, 2015a |
| | | 4/15/06 | 368.35 | | Static | | BasinWells, 2015a |
| | | 5/14/06 | 433.60 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 429.70 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 430.70 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 420.80 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 417.98 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 413.20 | | Dynamic | | BasinWells, 2015a |
| | | 11/10/06 | 413.20 | | Dynamic | | BasinWells, 2015a |
| | | 12/16/06 | 443.18 | | Dynamic | | BasinWells, 2015a |
| | | 1/17/07 | 376.60 | | Static | | BasinWells, 2015a |
| | | 2/24/07 | | 456.20 | | 2681.98 | Sierrita EDMS |
| | | 2/24/07 | 456.20 | | Dynamic | | BasinWells, 2015a |
| | | 3/19/07 | 464.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 451.90 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 449.10 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 432.20 | | Dynamic | | BasinWells, 2015a |
| | | 7/21/07 | | 428.78 | | 2709.40 | Sierrita EDMS |
| | | 7/21/07 | 428.78 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/07 | 431.80 | | Dynamic | | BasinWells, 2015a |
| | | 10/17/07 | | 433.00 | | 2705.18 | Sierrita EDMS |
| | | 11/28/07 | 434.80 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 426.20 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 425.90 | | 2712.28 | Sierrita EDMS |
| | | 7/29/08 | 425.90 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 428.58 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 427.40 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 425.90 | | 2712.28 | Sierrita EDMS |
| | | 10/24/08 | 425.90 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 427 | | 2711.18 | Sierrita EDMS |
| | | 3/10/09 | 375.80 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 375.80 | | 2762.38 | Sierrita EDMS |
| | | 5/13/09 | 430.60 | | Dynamic | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-12 | 3138.18 | 12/15/09 | 428.90 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 425.40 | | 2712.78 | Sierrita EDMS |
| | | 3/9/11 | 414.92 | | Dynamic | | BasinWells, 2015a |
| | | 4/14/11 | 371.21 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 415.81 | | 2722.37 | Sierrita EDMS |
| | | 5/11/11 | 415.81 | | Dynamic | | BasinWells, 2015a |
| | | 6/29/11 | 415.29 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 372.05 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 411.60 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 372.28 | | Static | | BasinWells, 2015a |
| | | 1/26/12 | 415.39 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 373.26 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 393.68 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 411.45 | | 2726.73 | Sierrita EDMS |
| | | 5/22/12 | 411.45 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 371.15 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 427.28 | | Dynamic | | BasinWells, 2015a |
| | | 8/22/12 | 376.92 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 422.48 | | Dynamic | | BasinWells, 2015a |
| | | 10/25/12 | 382.92 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 426.02 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/13 | | 420.22 | Dynamic | 2717.96 | Sierrita EDMS |
| | | 6/25/13 | 386.04 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 440.86 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 386.00 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 441.10 | | Dynamic | | BasinWells, 2015a |
| | | 10/29/13 | 395.37 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 435.47 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 391.32 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 381.41 | Static | 2756.77 | Sierrita EDMS |
| | | 1/28/14 | 381.41 | | Static | | BasinWells, 2015a |
| | | 2/24/14 | | 380.19 | Static | 2757.99 | Sierrita EDMS |
| | | 2/24/14 | 380.19 | | Static | | BasinWells, 2015a |
| | | 3/24/14 | | 380.01 | Static | 2758.17 | Sierrita EDMS |
| | | 3/31/14 | 380.01 | | Static | | BasinWells, 2015a |
| | | 4/28/14 | | 386.78 | Dynamic | 2751.40 | Sierrita EDMS |
| | | 5/30/14 | | 434.66 | Dynamic | 2703.52 | Sierrita EDMS |
| | | 5/30/14 | 434.66 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 500.10 | Dynamic | 2638.08 | Sierrita EDMS |
| | | 7/7/14 | | 490.40 | Dynamic | 2647.78 | Sierrita EDMS |
| | | 7/7/14 | 489.69 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 478.50 | Dynamic | 2659.68 | Sierrita EDMS |
| | | 7/31/14 | 478.50 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 386.40 | Static | 2751.78 | Sierrita EDMS |
| | | 8/27/14 | 386.40 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 486.30 | Dynamic | 2651.88 | Sierrita EDMS |
| | | 10/1/14 | 485.59 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 475.70 | Dynamic | 2662.48 | Sierrita EDMS |
| | | 11/4/14 | 474.99 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 475.95 | Dynamic | 2662.23 | Sierrita EDMS |
| | | 12/2/14 | 475.24 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 458.20 | Dynamic | 2679.98 | Sierrita EDMS |
| | | 5/2/15 | | 484.20 | Dynamic | 2653.98 | Sierrita EDMS |
| | | 6/11/15 | | 448.60 | Dynamic | 2689.58 | Sierrita EDMS |
| | | 7/18/15 | | 456.50 | Dynamic | 2681.68 | Sierrita EDMS |
| | | 10/7/15 | | UTM | Static | NA | Sierrita EDMS |
| | | 11/4/15 | | 481.30 | Dynamic | 2656.88 | Sierrita EDMS |
| | | 12/9/15 | | UTM | Static | NA | Sierrita EDMS |
| IW-13 | 3143.35 | 1/14/06 | 382.10 | | Static | | BasinWells, 2015a |
| | | 2/20/06 | 398.95 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 386.25 | | Static | | BasinWells, 2015a |
| | | 4/15/06 | 403.55 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 402.85 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 405.27 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 406.30 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 408.80 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 409.38 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 408.10 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 409.95 | | Dynamic | | BasinWells, 2015a |
| | | 12/16/06 | 408.25 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 411.20 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | 411.90 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 411.60 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 411.15 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 412.91 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 412.75 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 412.13 | | 2731.22 | Sierrita EDMS |
| | | 8/29/07 | 411.88 | | Dynamic | | BasinWells, 2015a |
| | | 10/17/07 | | 413.30 | | 2730.05 | Sierrita EDMS |
| | | 11/29/07 | 413.40 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 412.21 | | 2731.14 | Sierrita EDMS |
| | | 1/29/08 | 412.21 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 411.10 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 410.79 | | Dynamic | | BasinWells, 2015a |
| | | 4/22/08 | | 410.42 | | 2732.93 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-13 | 3143.35 | 4/30/08 | 410.42 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 409.50 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 409.18 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 410.00 | | 2733.35 | Sierrita EDMS |
| | | 7/29/08 | 410.00 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 410.30 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 411.02 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 410.95 | | 2732.40 | Sierrita EDMS |
| | | 10/24/08 | 410.95 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 411 | | 2732.35 | Sierrita EDMS |
| | | 3/10/09 | 388.90 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 388.90 | | 2754.45 | Sierrita EDMS |
| | | 5/13/09 | 410.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 408.60 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 404.66 | | 2738.69 | Sierrita EDMS |
| | | 3/9/11 | 386.19 | | Static | | BasinWells, 2015a |
| | | 4/14/11 | 382.59 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 401.85 | | 2741.50 | Sierrita EDMS |
| | | 5/11/11 | 401.85 | | Dynamic | | BasinWells, 2015a |
| | | 6/29/11 | 401.54 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 383.55 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 402.38 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 402.00 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 401.86 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 386.00 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 403.60 | | Dynamic | | BasinWells, 2015a |
| | | 6/20/12 | | 405.53 | | 2737.82 | Sierrita EDMS |
| | | 6/27/12 | 387.62 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 443.39 | | Dynamic | | BasinWells, 2015a |
| | | 8/22/12 | 389.92 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 450.28 | | Dynamic | | BasinWells, 2015a |
| | | 10/26/12 | 392.99 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 420.16 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 410.89 | Dynamic | 2732.46 | Sierrita EDMS |
| | | 6/25/13 | 396.57 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 422.24 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 396.63 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 422.31 | | Dynamic | | BasinWells, 2015a |
| | | 10/29/13 | 409.74 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 423.62 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 398.81 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 432.93 | Dynamic | 2710.42 | Sierrita EDMS |
| | | 1/28/14 | 432.93 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | 401.88 | | Static | | BasinWells, 2015a |
| | | 2/25/14 | | 401.88 | Static | 2741.47 | Sierrita EDMS |
| | | 3/24/14 | | 438.75 | Dynamic | 2704.60 | Sierrita EDMS |
| | | 3/31/14 | 438.75 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/14 | | 403.78 | Dynamic | 2739.57 | Sierrita EDMS |
| | | 5/30/14 | | 438.80 | Dynamic | 2704.55 | Sierrita EDMS |
| | | 5/30/14 | 438.80 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 416.40 | Static | 2726.95 | Sierrita EDMS |
| | | 6/9/14 | 416.40 | | Static | | BasinWells, 2015a |
| | | 7/7/14 | | 405.70 | Static | 2737.65 | Sierrita EDMS |
| | | 7/7/14 | 404.74 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 405.70 | Static | 2737.65 | Sierrita EDMS |
| | | 7/31/14 | 405.70 | | Static | | BasinWells, 2015a |
| | | 8/27/14 | | 404.30 | Static | 2739.05 | Sierrita EDMS |
| | | 8/27/14 | 404.30 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 459.50 | Static | 2683.85 | Sierrita EDMS |
| | | 10/1/14 | | 406.90 | Static | 2736.45 | Sierrita EDMS |
| | | 10/1/14 | 405.94 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 404.20 | Static | 2739.15 | Sierrita EDMS |
| | | 11/4/14 | 403.24 | | Static | | BasinWells, 2015a |
| | | 12/2/14 | | 402.80 | Static | 2740.55 | Sierrita EDMS |
| | | 12/2/14 | 401.84 | | Static | | BasinWells, 2015a |
| | | 4/9/15 | | 398.70 | Static | 2744.65 | Sierrita EDMS |
| | | 5/2/15 | | 399.20 | Static | 2744.15 | Sierrita EDMS |
| | | 6/11/15 | | 398.80 | Static | 2744.55 | Sierrita EDMS |
| | | 7/18/15 | | 400.65 | Static | 2742.70 | Sierrita EDMS |
| | | 10/7/15 | | 401.93 | Static | 2741.42 | Sierrita EDMS |
| | | 11/4/15 | | 401.70 | Static | 2741.65 | Sierrita EDMS |
| | | 12/9/15 | | 402.50 | Static | 2740.85 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-14 | 3146.42 | 1/14/06 | 441.20 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 436.10 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 379.95 | | Static | | BasinWells, 2015a |
| | | 4/15/06 | 459.58 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 445.42 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 447.55 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 450.11 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 458.50 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 458.09 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 456.00 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 471.68 | | Dynamic | | BasinWells, 2015a |
| | | 11/15/06 | | 471.68 | | 2674.74 | Sierrita EDMS |
| | | 12/16/06 | 470.30 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 474.40 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 463.35 | | 2683.07 | Sierrita EDMS |
| | | 2/24/07 | 463.35 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 479.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 471.90 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 476.90 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 476.40 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 474.00 | | 2672.42 | Sierrita EDMS |
| | | 8/29/07 | 480.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/16/07 | | 480.00 | | 2666.42 | Sierrita EDMS |
| | | 11/29/07 | 491.30 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 478.50 | | 2667.92 | Sierrita EDMS |
| | | 1/29/08 | 478.50 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 465.10 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 464.99 | | Dynamic | | BasinWells, 2015a |
| | | 4/21/08 | | 457.75 | | 2688.67 | Sierrita EDMS |
| | | 4/30/08 | 457.75 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 473.90 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 477.77 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 478.06 | | 2668.36 | Sierrita EDMS |
| | | 7/29/08 | 478.06 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 467.20 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 466.99 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 467.07 | | 2679.35 | Sierrita EDMS |
| | | 10/24/08 | 467.07 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 466 | | 2680.42 | Sierrita EDMS |
| | | 3/10/09 | 383.30 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 383.30 | | 2763.12 | Sierrita EDMS |
| | | 5/13/09 | 460.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 447.90 | | Dynamic | | BasinWells, 2015a |
| | | 4/21/10 | | 422.20 | | 2724.22 | Sierrita EDMS |
| | | 3/10/11 | 406.36 | | Dynamic | | BasinWells, 2015a |
| | | 4/14/11 | 378.11 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 404.48 | | 2741.94 | Sierrita EDMS |
| | | 5/11/11 | 404.48 | | Dynamic | | BasinWells, 2015a |
| | | 6/29/11 | 403.37 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 349.52 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 404.40 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 395.50 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 380.28 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 459.54 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 458.57 | | 2687.85 | Sierrita EDMS |
| | | 5/22/12 | 458.57 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 381.75 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 455.15 | | Dynamic | | BasinWells, 2015a |
| | | 8/22/12 | 383.91 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 459.39 | | Dynamic | | BasinWells, 2015a |
| | | 10/26/12 | 386.33 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 459.43 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 460.72 | Dynamic | 2685.70 | Sierrita EDMS |
| | | 6/25/13 | 386.94 | | Static | | BasinWells, 2015a |
| | | 8/1/13 | 386.93 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 458.60 | | Dynamic | | BasinWells, 2015a |
| | | 10/28/13 | 391.09 | | Static | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-14 | 3146.42 | 11/28/13 | 451.70 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 390.79 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 459.02 | Dynamic | 2687.40 | Sierrita EDMS |
| | | 1/28/14 | 459.02 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | 393.02 | | Static | | BasinWells, 2015a |
| | | 2/25/14 | | 393.02 | Dynamic | 2753.40 | Sierrita EDMS |
| | | 3/24/14 | | 455.21 | Dynamic | 2691.21 | Sierrita EDMS |
| | | 3/31/14 | 455.21 | | Dynamic | | BasinWells, 2015a |
| | | 4/28/14 | | 394.49 | Dynamic | 2751.93 | Sierrita EDMS |
| | | 5/30/14 | | 453.19 | Dynamic | 2693.23 | Sierrita EDMS |
| | | 5/30/14 | 453.19 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 459.40 | Dynamic | 2687.02 | Sierrita EDMS |
| | | 6/9/14 | 459.40 | | Dynamic | | BasinWells, 2015a |
| | | 7/7/14 | | 459.30 | Dynamic | 2687.12 | Sierrita EDMS |
| | | 7/7/14 | 459.13 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 459.30 | Dynamic | 2687.12 | Sierrita EDMS |
| | | 7/31/14 | 459.30 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 394.60 | Static | 2751.82 | Sierrita EDMS |
| | | 8/27/14 | 394.60 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | 459.33 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 459.40 | Dynamic | 2687.02 | Sierrita EDMS |
| | | 11/4/14 | 459.23 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 459.40 | Dynamic | 2687.02 | Sierrita EDMS |
| | | 12/2/14 | 459.23 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 459.50 | Dynamic | 2686.92 | Sierrita EDMS |
| | | 5/2/15 | | 459.50 | Dynamic | 2686.92 | Sierrita EDMS |
| | | 6/11/15 | | 400.05 | Static | 2746.37 | Sierrita EDMS |
| | | 7/18/15 | | 460.10 | Dynamic | 2686.32 | Sierrita EDMS |
| | | 10/7/15 | | 400.92 | Static | 2745.50 | Sierrita EDMS |
| | | 11/4/15 | | 459.45 | Dynamic | 2686.97 | Sierrita EDMS |
| | | 12/9/15 | | 400.80 | Static | 2745.62 | Sierrita EDMS |
| IW-15 | 3152.02 | 2/20/06 | 416.20 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 387.55 | | Static | | BasinWells, 2015a |
| | | 4/15/06 | 420.70 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 417.60 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 419.48 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 422.65 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 423.60 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 424.60 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 424.35 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 427.27 | | Dynamic | | BasinWells, 2015a |
| | | 11/15/06 | | 427.27 | | 2724.75 | Sierrita EDMS |
| | | 12/16/06 | 427.79 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 429.75 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 429.89 | | 2722.13 | Sierrita EDMS |
| | | 2/24/07 | 429.89 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 431.05 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 431.40 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 431.90 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 431.60 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 430.55 | | 2721.47 | Sierrita EDMS |
| | | 8/29/07 | 429.70 | | Dynamic | | BasinWells, 2015a |
| | | 10/16/07 | | 390.30 | | 2761.72 | Sierrita EDMS |
| | | 11/29/07 | 428.15 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 430.45 | | 2721.57 | Sierrita EDMS |
| | | 1/29/08 | 430.45 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 430.18 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 429.95 | | Dynamic | | BasinWells, 2015a |
| | | 4/22/08 | | 429.70 | | 2722.32 | Sierrita EDMS |
| | | 4/30/08 | 429.70 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 427.81 | | | | BasinWells, 2015a |
| | | 6/30/08 | 429.65 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 429.50 | | 2722.52 | Sierrita EDMS |
| | | 7/29/08 | 429.50 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 430.95 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 430.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 430.49 | | 2721.53 | Sierrita EDMS |
| | | 10/24/08 | 430.49 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 430 | | 2722.02 | Sierrita EDMS |
| | | 3/10/09 | 388.00 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 388.00 | | 2764.02 | Sierrita EDMS |
| | | 5/13/09 | 427.80 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 425.40 | | Dynamic | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-15 | 3152.02 | 4/12/10 | | 419.39 | | 2732.63 | Sierrita EDMS |
| | | 3/9/11 | 415.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/14/11 | 394.57 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 414.82 | | 2737.20 | Sierrita EDMS |
| | | 5/11/11 | 414.82 | | Dynamic | | BasinWells, 2015a |
| | | 6/29/11 | 412.55 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 384.89 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 416.35 | | Dynamic | | BasinWells, 2015a |
| | | 12/30/11 | 414.20 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 418.02 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 373.03 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 421.94 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 410.54 | | 2741.48 | Sierrita EDMS |
| | | 5/22/12 | 410.54 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 387.88 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 418.27 | | Dynamic | | BasinWells, 2015a |
| | | 8/22/12 | 389.33 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 433.77 | | Dynamic | | BasinWells, 2015a |
| | | 10/26/12 | 391.31 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 438.04 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/13 | | 439.64 | Dynamic | 2712.38 | Sierrita EDMS |
| | | 6/25/13 | 392.73 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/13 | 440.11 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 392.95 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 440.52 | | Dynamic | | BasinWells, 2015a |
| | | 10/28/13 | 395.39 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 441.34 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 395.57 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 458.15 | Dynamic | 2693.87 | Sierrita EDMS |
| | | 1/28/14 | 458.15 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | 397.32 | | Static | | BasinWells, 2015a |
| | | 2/25/14 | | 397.32 | Dynamic | 2754.70 | Sierrita EDMS |
| | | 3/24/14 | | 477.16 | Dynamic | 2674.86 | Sierrita EDMS |
| | | 3/31/14 | 477.16 | | Dynamic | | BasinWells, 2015a |
| | | 4/28/14 | | 399.11 | Dynamic | 2752.91 | Sierrita EDMS |
| | | 5/30/14 | | 477.18 | Dynamic | 2674.84 | Sierrita EDMS |
| | | 5/30/14 | 477.18 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 491.25 | Dynamic | 2660.77 | Sierrita EDMS |
| | | 6/9/14 | 491.25 | | Dynamic | | BasinWells, 2015a |
| | | 7/7/14 | | 399.40 | Static | 2752.62 | Sierrita EDMS |
| | | 7/7/14 | 399.15 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | | 491.30 | Dynamic | 2660.72 | Sierrita EDMS |
| | | 7/31/14 | 491.30 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 400.60 | Static | 2751.42 | Sierrita EDMS |
| | | 8/27/14 | 400.60 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 491.40 | Dynamic | 2660.62 | Sierrita EDMS |
| | | 10/1/14 | 491.15 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 491.40 | Dynamic | 2660.62 | Sierrita EDMS |
| | | 11/4/14 | 491.15 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 491.40 | Dynamic | 2660.62 | Sierrita EDMS |
| | | 12/2/14 | 491.15 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 491.40 | Dynamic | 2660.62 | Sierrita EDMS |
| | | 5/2/15 | | 401.70 | Static | 2750.32 | Sierrita EDMS |
| | | 6/11/15 | | 408.20 | Static | 2743.82 | Sierrita EDMS |
| | | 10/7/15 | | 404.60 | Static | 2747.42 | Sierrita EDMS |
| | | 11/4/15 | | 491.40 | Dynamic | 2660.62 | Sierrita EDMS |
| | | 12/9/15 | | 403.75 | Static | 2748.27 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-16 | 3162.85 | 1/14/06 | 399.60 | | Static | | BasinWells, 2015a |
| | | 2/20/06 | 405.00 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 405.60 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 406.97 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 406.45 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 407.55 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 408.31 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 408.95 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 409.20 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 408.94 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 409.69 | | Dynamic | | BasinWells, 2015a |
| | | 11/15/06 | | 409.69 | | 2753.16 | Sierrita EDMS |
| | | 12/16/06 | 409.81 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 410.00 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 409.95 | | 2752.90 | Sierrita EDMS |
| | | 2/24/07 | 409.95 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 409.35 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 409.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 409.50 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 409.10 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 409.50 | | 2753.35 | Sierrita EDMS |
| | | 8/29/07 | 409.65 | | Dynamic | | BasinWells, 2015a |
| | | 10/16/07 | | 409.17 | | 2753.68 | Sierrita EDMS |
| | | 11/29/07 | 408.90 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 409.20 | | 2753.65 | Sierrita EDMS |
| | | 1/29/08 | 409.20 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 408.80 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 408.92 | | Dynamic | | BasinWells, 2015a |
| | | 4/22/08 | | 408.89 | | 2753.96 | Sierrita EDMS |
| | | 4/30/08 | 408.89 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 408.92 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 408.48 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 409.02 | | 2753.83 | Sierrita EDMS |
| | | 7/29/08 | 409.02 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 408.44 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 408.24 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 408.29 | | 2754.56 | Sierrita EDMS |
| | | 10/24/08 | 408.29 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 409 | | 2753.85 | Sierrita EDMS |
| | | 3/10/09 | 402.00 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 402.00 | | 2760.85 | Sierrita EDMS |
| | | 5/13/09 | 409.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 408.80 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 405.68 | | 2757.17 | Sierrita EDMS |
| | | 3/9/11 | 399.82 | | Dynamic | | BasinWells, 2015a |
| | | 4/14/11 | 399.44 | | Static | | BasinWells, 2015a |
| | | 6/29/11 | | 339.30 | | 2823.55 | Sierrita EDMS |
| | | 6/29/11 | 399.30 | | Static | | BasinWells, 2015a |
| | | 7/12/11 | 399.56 | | Static | | BasinWells, 2015a |
| | | 8/25/11 | 400.05 | | Static | | BasinWells, 2015a |
| | | 12/29/11 | 398.25 | | Static | | BasinWells, 2015a |
| | | 1/26/12 | 400.69 | | Static | | BasinWells, 2015a |
| | | 2/28/12 | 401.00 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 401.53 | | Static | | BasinWells, 2015a |
| | | 6/27/12 | | 402.80 | | 2760.05 | Sierrita EDMS |
| | | 6/27/12 | 402.80 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 432.47 | | Static | | BasinWells, 2015a |
| | | 8/22/12 | 403.78 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 404.54 | | Static | | BasinWells, 2015a |
| | | 10/26/12 | 405.16 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 405.72 | | Static | | BasinWells, 2015a |
| | | 5/14/13 | | 407.10 | Static | 2755.75 | Sierrita EDMS |
| | | 5/14/13 | 407.10 | | Static | | BasinWells, 2015a |
| | | 6/25/13 | 407.10 | | Static | | BasinWells, 2015a |
| | | 8/1/13 | 406.93 | | Static | | BasinWells, 2015a |
| | | 10/28/13 | 408.18 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 409.04 | Static | 2753.81 | Sierrita EDMS |
| | | 2/24/14 | | 410.15 | Static | 2752.70 | Sierrita EDMS |
| | | 3/24/14 | | 411.11 | Static | 2751.74 | Sierrita EDMS |
| | | 4/25/14 | | 411.92 | Static | 2750.93 | Sierrita EDMS |
| | | 5/30/14 | | 411.90 | Static | 2750.95 | Sierrita EDMS |
| | | 6/25/15 | | 414.08 | Static | 2748.77 | Sierrita EDMS |
| | | 7/18/15 | | 414.05 | Static | 2748.80 | Sierrita EDMS |
| | | 10/7/15 | | 414.40 | Static | 2748.45 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-17 | 3160.76 | 1/14/06 | 423.54 | | Static | | BasinWells, 2015a |
| | | 2/17/06 | 426.60 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 427.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 427.50 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 427.70 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 427.60 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 428.10 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 426.35 | | Static | | BasinWells, 2015a |
| | | 9/16/06 | 428.81 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 428.72 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 429.15 | | Dynamic | | BasinWells, 2015a |
| | | 11/15/06 | | 429.15 | | 2731.61 | Sierrita EDMS |
| | | 12/16/06 | 429.25 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 429.58 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 429.70 | | 2731.06 | Sierrita EDMS |
| | | 2/24/07 | 429.70 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 429.50 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 428.80 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 429.60 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 428.25 | | Dynamic | | BasinWells, 2015a |
| | | 7/26/07 | | 427.97 | | 2732.79 | Sierrita EDMS |
| | | 8/29/07 | 428.35 | | Dynamic | | BasinWells, 2015a |
| | | 10/16/07 | | 427.70 | | 2733.06 | Sierrita EDMS |
| | | 11/29/07 | 427.48 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 428.12 | | 2732.64 | Sierrita EDMS |
| | | 1/29/08 | 428.12 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 427.95 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 428.30 | | Dynamic | | BasinWells, 2015a |
| | | 4/22/08 | | 428.23 | | 2732.53 | Sierrita EDMS |
| | | 4/30/08 | 428.23 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 428.50 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 428.33 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 428.40 | | 2732.36 | Sierrita EDMS |
| | | 7/29/08 | 428.40 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 428.00 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 428.33 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 428.45 | | 2732.31 | Sierrita EDMS |
| | | 10/24/08 | 428.45 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 428 | | 2732.76 | Sierrita EDMS |
| | | 3/10/09 | 425.00 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 425.00 | | 2735.76 | Sierrita EDMS |
| | | 5/13/09 | 428.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 427.60 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 425.12 | | 2735.64 | Sierrita EDMS |
| | | 3/9/11 | 423.13 | | Dynamic | | BasinWells, 2015a |
| | | 4/14/11 | 422.59 | | Static | | BasinWells, 2015a |
| | | 6/29/11 | | 422.10 | | 2738.66 | Sierrita EDMS |
| | | 6/29/11 | 422.10 | | Static | | BasinWells, 2015a |
| | | 7/12/11 | 421.01 | | Static | | BasinWells, 2015a |
| | | 8/25/11 | 422.00 | | Static | | BasinWells, 2015a |
| | | 12/29/11 | 422.00 | | Static | | BasinWells, 2015a |
| | | 1/26/12 | 423.06 | | Static | | BasinWells, 2015a |
| | | 2/28/12 | 423.15 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 423.21 | | Static | | BasinWells, 2015a |
| | | 6/27/12 | | 424.10 | | 2736.66 | Sierrita EDMS |
| | | 6/27/12 | 424.10 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 429.62 | | Static | | BasinWells, 2015a |
| | | 8/22/12 | 424.92 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 425.55 | | Static | | BasinWells, 2015a |
| | | 10/26/12 | 426.15 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 426.82 | | Static | | BasinWells, 2015a |
| | | 5/14/13 | | 428.86 | Static | 2731.90 | Sierrita EDMS |
| | | 5/14/13 | 428.86 | | Static | | BasinWells, 2015a |
| | | 6/25/13 | 428.86 | | Static | | BasinWells, 2015a |
| | | 8/1/13 | 428.94 | | Static | | BasinWells, 2015a |
| | | 10/28/13 | 429.63 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 432.11 | Static | 2728.65 | Sierrita EDMS |
| | | 2/24/14 | | 422.09 | Static | 2738.67 | Sierrita EDMS |
| | | 3/24/14 | | 435.40 | Static | 2725.36 | Sierrita EDMS |
| | | 4/25/14 | | 437.29 | Static | 2723.47 | Sierrita EDMS |
| | | 5/30/14 | | 437.35 | Static | 2723.41 | Sierrita EDMS |
| | | 6/25/15 | | 443.59 | Static | 2717.17 | Sierrita EDMS |
| | | 7/18/15 | | 443.60 | Static | 2717.16 | Sierrita EDMS |
| | | 10/7/15 | | 444.35 | Static | 2716.41 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-18 | 3171.15 | 1/14/06 | 441.60 | | Static | | BasinWells, 2015a |
| | | 2/20/06 | 450.55 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 450.40 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 448.70 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 446.80 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 447.02 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 448.21 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 448.90 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 448.98 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 448.50 | | Dynamic | | BasinWells, 2015a |
| | | 11/10/06 | 449.35 | | Dynamic | | BasinWells, 2015a |
| | | 11/21/06 | | 449.02 | | 2722.13 | Sierrita EDMS |
| | | 12/16/06 | 449.68 | | Dynamic | | BasinWells, 2015a |
| | | 1/17/07 | 444.50 | | Static | | BasinWells, 2015a |
| | | 2/24/07 | | 449.55 | | 2721.60 | Sierrita EDMS |
| | | 2/24/07 | 449.55 | | Dynamic | | BasinWells, 2015a |
| | | 3/19/07 | 448.80 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 447.80 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 447.19 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 446.50 | | Dynamic | | BasinWells, 2015a |
| | | 7/21/07 | | 446.35 | | 2724.80 | Sierrita EDMS |
| | | 8/29/07 | 446.40 | | Dynamic | | BasinWells, 2015a |
| | | 10/16/07 | | 445.25 | | 2725.90 | Sierrita EDMS |
| | | 11/28/07 | 445.00 | | Dynamic | | BasinWells, 2015a |
| | | 1/19/08 | | 446.75 | | 2724.40 | Sierrita EDMS |
| | | 1/29/08 | 446.75 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 447.00 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 447.35 | | Dynamic | | BasinWells, 2015a |
| | | 4/21/08 | | 447.48 | | 2723.67 | Sierrita EDMS |
| | | 4/30/08 | 447.48 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 447.80 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 447.47 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 447.00 | | 2724.15 | Sierrita EDMS |
| | | 7/29/08 | 447.00 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 446.80 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 446.36 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 446.30 | | 2724.85 | Sierrita EDMS |
| | | 10/24/08 | 446.30 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 447 | | 2724.15 | Sierrita EDMS |
| | | 3/10/09 | 441.50 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 441.50 | | 2729.65 | Sierrita EDMS |
| | | 5/13/09 | 447.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 447.20 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 442.94 | | 2728.21 | Sierrita EDMS |
| | | 3/9/11 | 436.89 | | Dynamic | | BasinWells, 2015a |
| | | 4/14/11 | 432.82 | | Static | | BasinWells, 2015a |
| | | 6/29/11 | | 435.35 | | 2735.80 | Sierrita EDMS |
| | | 6/29/11 | 435.35 | | Static | | BasinWells, 2015a |
| | | 7/12/11 | 435.16 | | Static | | BasinWells, 2015a |
| | | 8/25/11 | 435.50 | | Static | | BasinWells, 2015a |
| | | 12/29/11 | 434.90 | | Static | | BasinWells, 2015a |
| | | 1/26/12 | 436.09 | | Static | | BasinWells, 2015a |
| | | 2/28/12 | 436.22 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 436.47 | | Static | | BasinWells, 2015a |
| | | 6/27/12 | | 436.97 | | 2734.18 | Sierrita EDMS |
| | | 6/27/12 | 436.97 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 437.20 | | Static | | BasinWells, 2015a |
| | | 8/22/12 | 437.68 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 438.78 | | Static | | BasinWells, 2015a |
| | | 10/26/12 | 439.56 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 440.41 | | Static | | BasinWells, 2015a |
| | | 5/14/13 | | 443.11 | Static | 2728.04 | Sierrita EDMS |
| | | 5/14/13 | 443.11 | | Static | | BasinWells, 2015a |
| | | 6/25/13 | 443.11 | | Static | | BasinWells, 2015a |
| | | 8/1/13 | 442.87 | | Static | | BasinWells, 2015a |
| | | 10/28/13 | 441.41 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 447.78 | Static | 2723.37 | Sierrita EDMS |
| | | 2/24/14 | | 449.75 | Static | 2721.40 | Sierrita EDMS |
| | | 3/24/14 | | 451.75 | Static | 2719.40 | Sierrita EDMS |
| | | 4/25/14 | | 453.68 | Static | 2717.47 | Sierrita EDMS |
| | | 5/30/14 | | 453.70 | Static | 2717.45 | Sierrita EDMS |
| | | 6/25/15 | | UTM | Static | NA | Sierrita EDMS |
| | | 10/7/15 | | UTM | Static | NA | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-19 | 3155.39 | 1/14/06 | 449.07 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 447.90 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 448.30 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 449.90 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 444.50 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 445.36 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 447.60 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 447.80 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 447.38 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 448.80 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 418.60 | | Static | | BasinWells, 2015a |
| | | 11/21/06 | | 418.60 | | 2736.79 | Sierrita EDMS |
| | | 12/16/06 | 448.60 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 448.65 | | Dynamic | | BasinWells, 2015a |
| | | 2/23/07 | | 444.65 | | 2710.74 | Sierrita EDMS |
| | | 2/23/07 | 444.65 | | Dynamic | | BasinWells, 2015a |
| | | 3/16/07 | 443.38 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 441.30 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 433.70 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 432.95 | | Dynamic | | BasinWells, 2015a |
| | | 7/26/07 | | 435.85 | | 2719.54 | Sierrita EDMS |
| | | 8/29/07 | 435.05 | | Dynamic | | BasinWells, 2015a |
| | | 11/29/07 | 450.52 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 451.28 | | 2704.11 | Sierrita EDMS |
| | | 1/29/08 | 451.28 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 451.22 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 452.19 | | Dynamic | | BasinWells, 2015a |
| | | 4/21/08 | | 452.00 | | 2703.39 | Sierrita EDMS |
| | | 4/30/08 | 452.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 452.45 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 451.40 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 451.88 | | 2703.51 | Sierrita EDMS |
| | | 7/29/08 | 451.88 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 450.25 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 450.35 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 451.08 | | 2704.31 | Sierrita EDMS |
| | | 10/24/08 | 451.08 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 451 | | 2704.39 | Sierrita EDMS |
| | | 3/10/09 | 413.90 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 413.90 | | 2741.49 | Sierrita EDMS |
| | | 5/13/09 | 450.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 448.30 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 445.24 | | 2710.15 | Sierrita EDMS |
| | | 3/9/11 | 437.57 | | Dynamic | | BasinWells, 2015a |
| | | 4/14/11 | 407.82 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 436.15 | | 2719.24 | Sierrita EDMS |
| | | 5/11/11 | 436.15 | | Dynamic | | BasinWells, 2015a |
| | | 6/29/11 | 430.75 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 407.21 | | Static | | BasinWells, 2015a |
| | | 8/25/11 | 399.60 | | | | BasinWells, 2015a |
| | | 12/29/11 | 433.09 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 433.88 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 408.38 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 434.42 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 432.62 | | 2722.77 | Sierrita EDMS |
| | | 5/22/12 | 432.62 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 409.19 | | Static | | BasinWells, 2015a |
| | | 8/22/12 | 409.73 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 435.37 | | Dynamic | | BasinWells, 2015a |
| | | 10/26/12 | 411.86 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 437.02 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/13 | | 439.33 | Dynamic | 2716.06 | Sierrita EDMS |
| | | 6/25/13 | 415.12 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 438.92 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 415.19 | | Static | | BasinWells, 2015a |
| | | 10/28/13 | 416.00 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 468.62 | | Dynamic | | BasinWells, 2015a |
| | | 1/28/14 | | 465.41 | Dynamic | 2689.98 | Sierrita EDMS |
| | | 1/28/14 | 465.41 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | 422.21 | | Static | | BasinWells, 2015a |
| | | 2/25/14 | | 422.21 | Static | 2733.18 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-19 | 3155.39 | 3/24/14 | | 469.27 | Dynamic | 2686.12 | Sierrita EDMS |
| | | 3/31/14 | 469.27 | | Dynamic | | BasinWells, 2015a |
| | | 4/28/14 | | 425.55 | Dynamic | 2729.84 | Sierrita EDMS |
| | | 5/30/14 | | 469.21 | Dynamic | 2686.18 | Sierrita EDMS |
| | | 5/30/14 | 469.21 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 473.38 | Dynamic | 2682.01 | Sierrita EDMS |
| | | 6/9/14 | 473.38 | | Dynamic | | BasinWells, 2015a |
| | | 7/7/14 | | 474.40 | Dynamic | 2680.99 | Sierrita EDMS |
| | | 7/7/14 | 473.57 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 473.70 | Dynamic | 2681.69 | Sierrita EDMS |
| | | 7/31/14 | 473.70 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 428.00 | Static | 2727.39 | Sierrita EDMS |
| | | 8/27/14 | 428.00 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 475.80 | Dynamic | 2679.59 | Sierrita EDMS |
| | | 10/1/14 | 474.97 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 475.50 | Dynamic | 2679.89 | Sierrita EDMS |
| | | 11/4/14 | 474.67 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 476.05 | Dynamic | 2679.34 | Sierrita EDMS |
| | | 12/2/14 | 475.22 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 482.20 | Dynamic | 2673.19 | Sierrita EDMS |
| | | 5/2/15 | | 488.30 | Dynamic | 2667.09 | Sierrita EDMS |
| | | 6/11/15 | | 431.40 | Static | 2723.99 | Sierrita EDMS |
| | | 7/18/15 | | 435.95 | Static | 2719.44 | Sierrita EDMS |
| | | 10/7/15 | | 439.15 | Static | 2716.24 | Sierrita EDMS |
| | | 11/4/15 | | 504.00 | Dynamic | 2651.39 | Sierrita EDMS |
| | | 12/9/15 | | 439.95 | Static | 2715.44 | Sierrita EDMS |
| IW-20 | 3164.21 | 1/14/06 | 450.32 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 451.65 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 453.50 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 450.23 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 450.33 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 450.60 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 442.80 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 450.55 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 435.70 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 441.60 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 421.25 | | Static | | BasinWells, 2015a |
| | | 11/21/06 | | 421.25 | | 2742.96 | Sierrita EDMS |
| | | 12/16/06 | 449.60 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | | 445.30 | | 2718.91 | Sierrita EDMS |
| | | 1/29/07 | 445.30 | | Dynamic | | BasinWells, 2015a |
| | | 3/16/07 | 417.72 | | Static | | BasinWells, 2015a |
| | | 4/24/07 | 428.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 427.60 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 427.20 | | Dynamic | | BasinWells, 2015a |
| | | 7/26/07 | | 426.21 | | 2738.00 | Sierrita EDMS |
| | | 8/29/07 | 447.90 | | Dynamic | | BasinWells, 2015a |
| | | 10/16/07 | | 424.15 | | 2740.06 | Sierrita EDMS |
| | | 11/29/07 | 423.30 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 424.65 | | 2739.56 | Sierrita EDMS |
| | | 1/29/08 | 424.65 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 424.68 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 425.05 | | Dynamic | | BasinWells, 2015a |
| | | 4/21/08 | | 425.15 | | 2739.06 | Sierrita EDMS |
| | | 4/30/08 | 425.15 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 425.18 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 423.04 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 422.99 | | 2741.22 | Sierrita EDMS |
| | | 7/29/08 | 422.99 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 424.44 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 424.04 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 424.14 | | 2740.07 | Sierrita EDMS |
| | | 10/24/08 | 424.14 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 442 | | 2722.21 | Sierrita EDMS |
| | | 3/10/09 | 414.00 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 414.00 | | 2750.21 | Sierrita EDMS |
| | | 5/13/09 | 423.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 418.80 | | Dynamic | | BasinWells, 2015a |
| | | 4/29/10 | | 418.07 | | 2746.14 | Sierrita EDMS |
| | | 3/9/11 | 412.78 | | Dynamic | | BasinWells, 2015a |
| | | 4/14/11 | 407.11 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 413.15 | | 2751.06 | Sierrita EDMS |
| | | 5/11/11 | 413.15 | | Dynamic | | BasinWells, 2015a |
| | | 6/29/11 | 412.53 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 406.25 | | Static | | BasinWells, 2015a |
| | | 8/25/11 | 412.15 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 412.80 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 406.99 | | Static | | BasinWells, 2015a |
| | | 2/28/12 | 408.09 | | Static | | BasinWells, 2015a |
| | | 3/29/12 | 414.89 | | Dynamic | | BasinWells, 2015a |
| | | 6/20/12 | | 414.50 | | 2749.71 | Sierrita EDMS |
| | | 6/27/12 | 407.99 | | Static | | BasinWells, 2015a |
| | | 8/22/12 | 409.11 | | Static | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-20 | 3164.21 | 9/26/12 | 419.49 | | Dynamic | | BasinWells, 2015a |
| | | 10/26/12 | 411.89 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 419.84 | | Dynamic | | BasinWells, 2015a |
| | | 6/17/13 | | 417.26 | Dynamic | 2746.95 | Sierrita EDMS |
| | | 6/17/13 | 417.26 | | Dynamic | | BasinWells, 2015a |
| | | 6/25/13 | 413.74 | | Static | | BasinWells, 2015a |
| | | 8/1/13 | 415.77 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 421.16 | | Dynamic | | BasinWells, 2015a |
| | | 10/28/13 | 413.71 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 421.93 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 417.48 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | | 424.25 | Dynamic | 2739.96 | Sierrita EDMS |
| | | 1/28/14 | 424.25 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | 420.71 | | Static | | BasinWells, 2015a |
| | | 2/25/14 | | 420.71 | Static | 2743.50 | Sierrita EDMS |
| | | 3/24/14 | | 427.83 | Dynamic | 2736.38 | Sierrita EDMS |
| | | 3/31/14 | 427.83 | | Dynamic | | BasinWells, 2015a |
| | | 4/28/14 | | 421.94 | Dynamic | 2742.27 | Sierrita EDMS |
| | | 5/30/14 | | 427.89 | Dynamic | 2736.32 | Sierrita EDMS |
| | | 5/30/14 | 427.89 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 429.20 | Dynamic | 2735.01 | Sierrita EDMS |
| | | 6/9/14 | 429.20 | | Dynamic | | BasinWells, 2015a |
| | | 7/7/14 | | 430.10 | Dynamic | 2734.11 | Sierrita EDMS |
| | | 7/7/14 | 429.77 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 430.00 | Dynamic | 2734.21 | Sierrita EDMS |
| | | 7/31/14 | 430.00 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 424.80 | Static | 2739.41 | Sierrita EDMS |
| | | 8/27/14 | 424.80 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 432.80 | Dynamic | 2731.41 | Sierrita EDMS |
| | | 10/1/14 | 432.47 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 432.90 | Dynamic | 2731.31 | Sierrita EDMS |
| | | 11/4/14 | 432.57 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 435.80 | Dynamic | 2728.41 | Sierrita EDMS |
| | | 12/2/14 | 435.47 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 431.30 | Static | 2732.91 | Sierrita EDMS |
| | | 5/2/15 | | 431.75 | Static | 2732.46 | Sierrita EDMS |
| | | 6/11/15 | | 430.80 | Static | 2733.41 | Sierrita EDMS |
| | | 7/18/15 | | 434.65 | Static | 2729.56 | Sierrita EDMS |
| | | 10/7/15 | | 437.70 | Static | 2726.51 | Sierrita EDMS |
| | | 11/4/15 | | 437.80 | Static | 2726.41 | Sierrita EDMS |
| | | 12/9/15 | | 438.60 | Static | 2725.61 | Sierrita EDMS |
| IW-21 | 3171.37 | 1/14/06 | 452.50 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 455.75 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 452.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/06 | 453.20 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 447.90 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 448.00 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 450.16 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 450.10 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 449.10 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 448.28 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 424.80 | | Static | | BasinWells, 2015a |
| | | 11/21/06 | | 424.80 | | 2746.57 | Sierrita EDMS |
| | | 12/16/06 | 450.70 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 451.68 | | Dynamic | | BasinWells, 2015a |
| | | 2/23/07 | | 449.65 | | 2721.72 | Sierrita EDMS |
| | | 2/23/07 | 449.65 | | Dynamic | | BasinWells, 2015a |
| | | 3/16/07 | 448.68 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 447.70 | | Dynamic | | BasinWells, 2015a |
| | | 5/29/07 | 446.36 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 444.15 | | Dynamic | | BasinWells, 2015a |
| | | 7/26/07 | | 454.04 | | 2717.33 | Sierrita EDMS |
| | | 8/29/07 | 443.35 | | Dynamic | | BasinWells, 2015a |
| | | 10/16/07 | | 442.10 | | 2729.27 | Sierrita EDMS |
| | | 11/29/07 | 441.00 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 441.68 | | 2729.69 | Sierrita EDMS |
| | | 1/29/08 | 441.68 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/08 | 441.61 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 442.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/21/08 | | 441.50 | | 2729.87 | Sierrita EDMS |
| | | 4/30/08 | 441.50 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 439.42 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 454.00 | | 2717.37 | Sierrita EDMS |
| | | 7/29/08 | 454.00 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 455.94 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 456.00 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 443.08 | | 2728.29 | Sierrita EDMS |
| | | 10/24/08 | 455.89 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/09 | | 484 | | 2687.37 | Sierrita EDMS |
| | | 3/10/09 | 415.60 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 415.60 | | 2755.77 | Sierrita EDMS |
| | | 5/13/09 | 452.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 447.50 | | Dynamic | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-21 | 3171.37 | 5/11/11 | | 736.00 | | 2435.37 | Sierrita EDMS |
| | | 4/15/13 | | 612.58 | Dynamic | 2558.79 | Sierrita EDMS |
| | | 1/28/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 3/24/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 4/25/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 5/30/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 6/9/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 7/7/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 7/31/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 8/27/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 10/1/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 11/4/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 12/2/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 12/2/14 | 506.93 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 504.10 | Dynamic | 2667.27 | Sierrita EDMS |
| | | 5/2/15 | | 501.80 | Dynamic | 2669.57 | Sierrita EDMS |
| | | 6/11/15 | | 433.70 | Static | 2737.67 | Sierrita EDMS |
| | | 7/18/15 | | 498.30 | Dynamic | 2673.07 | Sierrita EDMS |
| | | 10/7/15 | | 512.00 | Dynamic | 2659.37 | Sierrita EDMS |
| | | 11/4/15 | | 510.90 | Dynamic | 2660.47 | Sierrita EDMS |
| | | 12/9/15 | | 502.70 | Dynamic | 2668.67 | Sierrita EDMS |
| IW-22 | 3128.25 | 1/14/06 | 469.88 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 470.92 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 390.50 | | Static | | BasinWells, 2015a |
| | | 4/15/06 | 477.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 462.00 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 461.37 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 460.80 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 464.28 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 466.65 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 465.25 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 434.75 | | Dynamic | | BasinWells, 2015a |
| | | 11/21/06 | | 434.75 | | 2693.50 | Sierrita EDMS |
| | | 12/16/06 | 432.65 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 439.45 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 433.58 | | 2694.67 | Sierrita EDMS |
| | | 2/24/07 | 433.58 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 434.90 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 435.60 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 435.10 | | Dynamic | | BasinWells, 2015a |
| | | 6/22/07 | 438.55 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 430.00 | | 2698.25 | Sierrita EDMS |
| | | 8/29/07 | 436.75 | | Dynamic | | BasinWells, 2015a |
| | | 10/18/07 | | 435.75 | | 2692.50 | Sierrita EDMS |
| | | 11/29/07 | 436.90 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/08 | | 438.50 | | 2689.75 | Sierrita EDMS |
| | | 1/29/08 | 438.50 | | Dynamic | | BasinWells, 2015a |
| | | 2/29/08 | 437.50 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 436.90 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/08 | | 439.30 | | 2688.95 | Sierrita EDMS |
| | | 4/30/08 | 439.30 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 439.00 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 441.00 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 442.08 | | 2686.17 | Sierrita EDMS |
| | | 7/29/08 | 442.08 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 442.80 | | Dynamic | | BasinWells, 2015a |
| | | 9/29/08 | 443.06 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 455.89 | | 2672.36 | Sierrita EDMS |
| | | 10/24/08 | 443.08 | | Dynamic | | BasinWells, 2015a |
| | | 1/21/09 | | 442 | | 2686.25 | Sierrita EDMS |
| | | 3/10/09 | 384.00 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 384.00 | | 2744.25 | Sierrita EDMS |
| | | 5/13/09 | 443.00 | | Dynamic | | BasinWells, 2015a |
| | | 12/15/09 | 438.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 434.62 | | 2693.63 | Sierrita EDMS |
| | | 3/9/11 | 424.56 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 378.72 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 431.21 | | 2697.04 | Sierrita EDMS |
| | | 5/11/11 | 431.21 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 430.12 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 369.50 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 433.80 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 402.80 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 418.31 | | Dynamic | | BasinWells, 2015a |
| | | 3/29/12 | 452.67 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 448.78 | | 2679.47 | Sierrita EDMS |
| | | 5/22/12 | 448.78 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 382.79 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 442.68 | | Dynamic | | BasinWells, 2015a |
| | | 8/22/12 | 400.60 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 462.71 | | Dynamic | | BasinWells, 2015a |
| | | 10/26/12 | 408.11 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 460.35 | | Dynamic | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-22 | 3128.25 | 4/15/13 | | 459.72 | Dynamic | 2668.53 | Sierrita EDMS |
| | | 6/25/13 | 408.44 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 467.14 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 408.82 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 467.52 | | Dynamic | | BasinWells, 2015a |
| | | 10/29/13 | 415.89 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 468.90 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 414.17 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | 467.14 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 467.14 | Dynamic | 2661.11 | Sierrita EDMS |
| | | 2/24/14 | 414.41 | | Static | | BasinWells, 2015a |
| | | 2/25/14 | | 414.41 | Static | 2713.84 | Sierrita EDMS |
| | | 3/24/14 | | 471.95 | Dynamic | 2656.30 | Sierrita EDMS |
| | | 3/31/14 | 471.95 | | Dynamic | | BasinWells, 2015a |
| | | 4/28/14 | | 411.44 | | 2716.81 | Sierrita EDMS |
| | | 5/30/14 | | 466.14 | Dynamic | 2662.11 | Sierrita EDMS |
| | | 5/30/14 | 466.14 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 461.20 | Dynamic | 2667.05 | Sierrita EDMS |
| | | 6/9/14 | 461.20 | | Dynamic | | BasinWells, 2015a |
| | | 7/7/14 | | 459.10 | Dynamic | 2669.15 | Sierrita EDMS |
| | | 7/7/14 | 458.43 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 452.40 | Dynamic | 2675.85 | Sierrita EDMS |
| | | 7/31/14 | 452.40 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 397.80 | Static | 2730.45 | Sierrita EDMS |
| | | 8/27/14 | 397.80 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 461.00 | Dynamic | 2667.25 | Sierrita EDMS |
| | | 10/1/14 | 460.33 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 452.80 | Dynamic | 2675.45 | Sierrita EDMS |
| | | 11/4/14 | 452.13 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 453.20 | Dynamic | 2675.05 | Sierrita EDMS |
| | | 12/2/14 | 452.53 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 451.70 | Dynamic | 2676.55 | Sierrita EDMS |
| | | 5/2/15 | | 400.60 | Static | 2727.65 | Sierrita EDMS |
| | | 6/11/15 | | 400.10 | Static | 2728.15 | Sierrita EDMS |
| | | 7/8/15 | | 462.90 | Dynamic | 2665.35 | Sierrita EDMS |
| | | 10/7/15 | | 475.40 | Dynamic | 2652.85 | Sierrita EDMS |
| | | 11/4/15 | | 464.55 | Dynamic | 2663.70 | Sierrita EDMS |
| | | 12/9/15 | | 472.90 | Dynamic | 2655.35 | Sierrita EDMS |
| IW-23 | 3128.53 | 1/14/06 | 464.40 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 377.75 | | Static | | BasinWells, 2015a |
| | | 4/15/06 | 504.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 472.25 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 490.55 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 470.30 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 544.50 | | Dynamic | | BasinWells, 2015a |
| | | 12/16/06 | | 544.50 | | 2584.03 | Sierrita EDMS |
| | | 12/16/06 | 493.02 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/07 | 497.00 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/07 | | 499.20 | | 2629.33 | Sierrita EDMS |
| | | 2/24/07 | 499.20 | | Dynamic | | BasinWells, 2015a |
| | | 3/17/07 | 496.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/24/07 | 491.30 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/07 | 497.70 | | Dynamic | | BasinWells, 2015a |
| | | 6/26/07 | 503.30 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/07 | | 500.00 | | 2628.53 | Sierrita EDMS |
| | | 8/29/07 | 500.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/18/07 | | 518.95 | | 2609.58 | Sierrita EDMS |
| | | 3/10/09 | 375.00 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 375.00 | | 2753.53 | Sierrita EDMS |
| | | 5/13/09 | 510.00 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 538.78 | | 2589.75 | Sierrita EDMS |
| | | 3/9/11 | 384.85 | | | | BasinWells, 2015a |
| | | 4/15/11 | 369.88 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 516.15 | | 2612.38 | Sierrita EDMS |
| | | 5/11/11 | 516.15 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 525.00 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 372.42 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 538.30 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 534.50 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 529.71 | | Dynamic | | BasinWells, 2015a |
| | | 3/29/12 | 546.38 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | | 523.21 | | 2605.32 | Sierrita EDMS |
| | | 5/22/12 | 523.21 | | Dynamic | | BasinWells, 2015a |
| | | 8/22/12 | 381.70 | | Static | | BasinWells, 2015a |
| | | 9/26/12 | 535.61 | | Dynamic | | BasinWells, 2015a |
| | | 10/26/12 | 384.71 | | Static | | BasinWells, 2015a |
| | | 11/27/12 | 483.41 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 482.11 | Dynamic | 2646.42 | Sierrita EDMS |
| | | 6/25/13 | 385.08 | | Static | | BasinWells, 2015a |
| | | 8/1/13 | 385.44 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 426.62 | | Dynamic | | BasinWells, 2015a |
| | | 10/30/13 | 394.39 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 428.20 | | Dynamic | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-23 | 3128.53 | 12/9/13 | 387.59 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | 528.47 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 528.47 | Dynamic | 2600.06 | Sierrita EDMS |
| | | 2/24/14 | 389.51 | | Static | | BasinWells, 2015a |
| | | 2/25/14 | | 389.51 | Static | 2739.02 | Sierrita EDMS |
| | | 3/24/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 4/28/14 | | 385.17 | Dynamic | 2743.36 | Sierrita EDMS |
| | | 5/30/14 | | 519.31 | Dynamic | 2609.22 | Sierrita EDMS |
| | | 5/30/14 | 519.31 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 546.60 | Dynamic | 2581.93 | Sierrita EDMS |
| | | 6/9/14 | 546.60 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 546.60 | Dynamic | 2581.93 | Sierrita EDMS |
| | | 7/6/14 | 545.73 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 534.90 | Dynamic | 2593.63 | Sierrita EDMS |
| | | 7/31/14 | 534.90 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | Insufficient Flow | | NA | Sierrita EDMS |
| | | 10/1/14 | | 546.65 | Dynamic | 2581.88 | Sierrita EDMS |
| | | 10/1/14 | 545.78 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 525.20 | Dynamic | 2603.33 | Sierrita EDMS |
| | | 11/4/14 | 524.33 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 539.60 | Dynamic | 2588.93 | Sierrita EDMS |
| | | 12/2/14 | 538.73 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 471.70 | Dynamic | 2656.83 | Sierrita EDMS |
| | | 5/2/15 | | 484.70 | Dynamic | 2643.83 | Sierrita EDMS |
| | | 6/11/15 | | 379.95 | Static | 2748.58 | Sierrita EDMS |
| | | 7/8/15 | | 482.40 | Dynamic | 2646.13 | Sierrita EDMS |
| | | 10/7/15 | | UTM | Dynamic | NA | Sierrita EDMS |
| | | 11/4/15 | | 468.00 | Dynamic | 2660.53 | Sierrita EDMS |
| | | 12/9/15 | | 383.50 | Static | 2745.03 | Sierrita EDMS |
| IW-24 | 3113.29 | 1/14/06 | 416.70 | | Dynamic | | BasinWells, 2015a |
| | | 2/20/06 | 392.50 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/06 | 353.90 | | Static | | BasinWells, 2015a |
| | | 4/15/06 | 495.72 | | Dynamic | | BasinWells, 2015a |
| | | 5/14/06 | 418.20 | | Dynamic | | BasinWells, 2015a |
| | | 6/10/06 | 446.65 | | Dynamic | | BasinWells, 2015a |
| | | 7/16/06 | 412.75 | | Dynamic | | BasinWells, 2015a |
| | | 8/13/06 | 477.00 | | Dynamic | | BasinWells, 2015a |
| | | 9/16/06 | 418.00 | | Dynamic | | BasinWells, 2015a |
| | | 10/20/06 | 545.50 | | Dynamic | | BasinWells, 2015a |
| | | 11/11/06 | 395.80 | | Dynamic | | BasinWells, 2015a |
| | | 3/3/07 | 344.00 | | Static | | BasinWells, 2015a |
| | | 5/30/07 | 353.50 | | Dynamic | | BasinWells, 2015a |
| | | 2/29/08 | 555.10 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/08 | 525.25 | | Dynamic | | BasinWells, 2015a |
| | | 4/25/08 | | 522.50 | | 2590.79 | Sierrita EDMS |
| | | 4/30/08 | 522.50 | | Dynamic | | BasinWells, 2015a |
| | | 5/27/08 | 433.30 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/08 | 451.50 | | Dynamic | | BasinWells, 2015a |
| | | 7/29/08 | | 452.50 | | 2660.79 | Sierrita EDMS |
| | | 7/29/08 | 452.50 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 467.00 | | Dynamic | | BasinWells, 2015a |
| | | 8/29/08 | 467.66 | | Dynamic | | BasinWells, 2015a |
| | | 10/24/08 | | 466.99 | | 2646.30 | Sierrita EDMS |
| | | 10/24/08 | 466.99 | | Dynamic | | BasinWells, 2015a |
| | | 3/10/09 | 348.00 | | Static | | BasinWells, 2015a |
| | | 5/13/09 | | 348.00 | | 2765.29 | Sierrita EDMS |
| | | 5/13/09 | 526.50 | | Dynamic | | BasinWells, 2015a |
| | | 4/12/10 | | 522.90 | | 2590.39 | Sierrita EDMS |
| | | 3/24/11 | 480.11 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/11 | 345.38 | | Static | | BasinWells, 2015a |
| | | 5/11/11 | | 456.05 | | 2657.24 | Sierrita EDMS |
| | | 5/11/11 | 456.05 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/11 | 446.19 | | Dynamic | | BasinWells, 2015a |
| | | 7/12/11 | 346.60 | | Static | | BasinWells, 2015a |
| | | 8/23/11 | 426.80 | | Dynamic | | BasinWells, 2015a |
| | | 12/29/11 | 458.40 | | Dynamic | | BasinWells, 2015a |
| | | 1/26/12 | 478.61 | | Dynamic | | BasinWells, 2015a |
| | | 2/28/12 | 349.58 | | Static | | BasinWells, 2015a |
| | | 5/22/12 | | 512.88 | | 2600.41 | Sierrita EDMS |
| | | 5/22/12 | 512.88 | | Dynamic | | BasinWells, 2015a |
| | | 6/27/12 | 354.00 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 439.87 | | Dynamic | | BasinWells, 2015a |
| | | 8/22/12 | 355.46 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 441.60 | | Dynamic | | BasinWells, 2015a |
| | | 10/26/12 | 355.87 | | Static | | BasinWells, 2015a |
| | | 11/28/12 | 543.91 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 533.21 | Dynamic | 2580.08 | Sierrita EDMS |
| | | 6/25/13 | 356.47 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 544.16 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 355.91 | | Static | | BasinWells, 2015a |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-24 | 3113.29 | 9/30/13 | 544.71 | | Dynamic | | BasinWells, 2015a |
| | | 10/30/13 | 359.61 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 536.89 | | Dynamic | | BasinWells, 2015a |
| | | 1/28/14 | | 522.00 | Dynamic | 2591.29 | Sierrita EDMS |
| | | 1/28/14 | 522.00 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | 358.72 | | Static | | BasinWells, 2015a |
| | | 2/25/14 | | 358.72 | Static | 2754.57 | Sierrita EDMS |
| | | 3/25/14 | | 517.78 | Dynamic | 2595.51 | Sierrita EDMS |
| | | 3/31/14 | 517.78 | | Dynamic | | BasinWells, 2015a |
| | | 4/28/14 | | 356.88 | Dynamic | 2756.41 | Sierrita EDMS |
| | | 5/30/14 | | 514.60 | Dynamic | 2598.69 | Sierrita EDMS |
| | | 5/30/14 | 514.60 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 499.00 | Dynamic | 2614.29 | Sierrita EDMS |
| | | 6/9/14 | 499.00 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 483.40 | Dynamic | 2629.89 | Sierrita EDMS |
| | | 7/6/14 | 482.90 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 457.10 | Dynamic | 2656.19 | Sierrita EDMS |
| | | 7/31/14 | 457.10 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 355.00 | Static | 2758.29 | Sierrita EDMS |
| | | 8/27/14 | 355.00 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | | 458.25 | Dynamic | 2655.04 | Sierrita EDMS |
| | | 10/1/14 | 457.75 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | | 475.15 | Dynamic | 2638.14 | Sierrita EDMS |
| | | 11/4/14 | 474.65 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 466.90 | Dynamic | 2646.39 | Sierrita EDMS |
| | | 12/2/14 | 466.40 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 399.90 | Dynamic | 2713.39 | Sierrita EDMS |
| | | 5/2/15 | | 407.60 | Dynamic | 2705.69 | Sierrita EDMS |
| | | 6/11/15 | | 359.80 | Static | 2753.49 | Sierrita EDMS |
| | | 7/8/15 | | 404.85 | Dynamic | 2708.44 | Sierrita EDMS |
| | | 10/7/15 | | 403.40 | Dynamic | 2709.89 | Sierrita EDMS |
| | | 11/4/15 | | 399.65 | Dynamic | 2713.64 | Sierrita EDMS |
| | | 12/9/15 | | 409.25 | Dynamic | 2704.04 | Sierrita EDMS |
| IW-25 | 3091.66 | 10/28/10 | 351.00 | | Static | | BasinWells, 2015a |
| | | 10/28/10 | 375.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/21/12 | 400.85 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/12 | 380.50 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 465.37 | | Dynamic | | BasinWells, 2015a |
| | | 8/25/12 | 380.20 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 462.88 | | Dynamic | | BasinWells, 2015a |
| | | 11/28/12 | 427.43 | | Static | | BasinWells, 2015a |
| | | 4/15/13 | | 422.52 | Dynamic | 2669.14 | Sierrita EDMS |
| | | 6/26/13 | 380.43 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 451.60 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 378.56 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 451.58 | | Dynamic | | BasinWells, 2015a |
| | | 10/31/13 | 384.18 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 452.68 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 388.78 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | 447.14 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/14 | 445.09 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/14 | 442.11 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 436.90 | Dynamic | 2654.76 | Sierrita EDMS |
| | | 6/9/14 | 436.90 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | 434.97 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | 436.10 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | 379.50 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | 442.32 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | 437.37 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | 440.87 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 433.00 | Dynamic | 2658.66 | Sierrita EDMS |
| | | 5/2/15 | | 439.70 | Dynamic | 2651.96 | Sierrita EDMS |
| | | 6/11/15 | | 439.40 | Dynamic | 2652.26 | Sierrita EDMS |
| | | 7/8/15 | | 444.75 | Dynamic | 2646.91 | Sierrita EDMS |
| | | 10/7/15 | | 441.50 | Dynamic | 2650.16 | Sierrita EDMS |
| | | 11/4/15 | | 439.05 | Dynamic | 2652.61 | Sierrita EDMS |
| | | 12/9/15 | | 443.00 | Dynamic | 2648.66 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-26 | 3100.03 | 10/10/10 | 361.00 | | Static | | BasinWells, 2015a |
| | | 10/10/10 | 394.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/21/12 | 484.33 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/12 | 376.70 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 487.67 | | Dynamic | | BasinWells, 2015a |
| | | 8/25/12 | 376.70 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 481.21 | | Dynamic | | BasinWells, 2015a |
| | | 11/28/12 | 493.38 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 492.21 | Dynamic | 2607.82 | Sierrita EDMS |
| | | 6/26/13 | 384.32 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 494.16 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 383.28 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 494.24 | | Dynamic | | BasinWells, 2015a |
| | | 10/29/13 | 384.54 | | Static | | BasinWells, 2015a |
| | | 10/31/13 | 384.21 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 382.75 | | Static | | BasinWells, 2015a |
| | | 12/9/13 | 382.88 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | 380.61 | | Static | | BasinWells, 2015a |
| | | 3/31/14 | 380.55 | | Static | | BasinWells, 2015a |
| | | 5/30/14 | 379.35 | | Static | | BasinWells, 2015a |
| | | 6/9/14 | | 376.80 | Static | 2723.23 | Sierrita EDMS |
| | | 6/9/14 | 376.80 | | Static | | BasinWells, 2015a |
| | | 7/6/14 | 378.29 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | 377.60 | | Static | | BasinWells, 2015a |
| | | 8/27/14 | 377.60 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | 377.69 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | 377.89 | | Static | | BasinWells, 2015a |
| | | 12/2/14 | 379.19 | | Static | | BasinWells, 2015a |
| | | 4/9/15 | | 432.60 | Dynamic | 2667.43 | Sierrita EDMS |
| | | 5/2/15 | | 436.70 | Dynamic | 2663.33 | Sierrita EDMS |
| | | 6/11/15 | | 439.30 | Dynamic | 2660.73 | Sierrita EDMS |
| | | 7/8/15 | | 441.60 | Dynamic | 2658.43 | Sierrita EDMS |
| | | 10/7/15 | | 442.95 | Dynamic | 2657.08 | Sierrita EDMS |
| | | 11/4/15 | | 441.10 | Dynamic | 2658.93 | Sierrita EDMS |
| | | 12/9/15 | | 445.15 | Dynamic | 2654.88 | Sierrita EDMS |
| IW-27 | 3120.33 | 12/3/10 | 378.50 | | Static | | BasinWells, 2015a |
| | | 12/3/10 | 393.30 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | 416.34 | | Dynamic | | BasinWells, 2015a |
| | | 10/30/13 | 395.56 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 395.04 | | Static | | BasinWells, 2015a |
| | | 12/9/13 | 395.21 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | 394.70 | | Static | | BasinWells, 2015a |
| | | 2/24/14 | 418.11 | | Dynamic | | BasinWells, 2015a |
| | | 3/31/14 | 394.72 | | Static | | BasinWells, 2015a |
| | | 5/30/14 | 394.32 | | Static | | BasinWells, 2015a |
| | | 6/5/14 | | 393.50 | Static | 2726.83 | Sierrita EDMS |
| | | 6/5/14 | 393.50 | | Static | | BasinWells, 2015a |
| | | 7/6/14 | 392.32 | | Static | | BasinWells, 2015a |
| | | 7/31/14 | 392.50 | | Static | | BasinWells, 2015a |
| | | 8/27/14 | 392.70 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | 393.02 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | 455.07 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | 459.52 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 457.85 | Dynamic | 2662.48 | Sierrita EDMS |
| | | 5/2/15 | | 466.20 | Dynamic | 2654.13 | Sierrita EDMS |
| | | 6/11/15 | | 471.10 | Dynamic | 2649.23 | Sierrita EDMS |
| | | 7/8/15 | | 468.55 | Dynamic | 2651.78 | Sierrita EDMS |
| | | 10/7/15 | | 468.00 | Dynamic | 2652.33 | Sierrita EDMS |
| | | 11/4/15 | | 458.95 | Dynamic | 2661.38 | Sierrita EDMS |
| | | 12/9/15 | | 470.00 | Dynamic | 2650.33 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| IW-28 | 3110.71 | 1/5/11 | 382.00 | | Static | | BasinWells, 2015a |
| | | 1/5/11 | 409.00 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/12 | 439.61 | | Dynamic | | BasinWells, 2015a |
| | | 6/30/12 | 392.40 | | Static | | BasinWells, 2015a |
| | | 7/31/12 | 451.37 | | Dynamic | | BasinWells, 2015a |
| | | 8/25/12 | 392.40 | | Static | | BasinWells, 2015a |
| | | 9/28/12 | 449.60 | | Dynamic | | BasinWells, 2015a |
| | | 11/27/12 | 451.70 | | Dynamic | | BasinWells, 2015a |
| | | 4/15/13 | | 447.89 | Dynamic | 2662.82 | Sierrita EDMS |
| | | 6/26/13 | 403.12 | | Static | | BasinWells, 2015a |
| | | 7/31/13 | 453.58 | | Dynamic | | BasinWells, 2015a |
| | | 8/1/13 | 401.30 | | Static | | BasinWells, 2015a |
| | | 9/30/13 | 454.16 | | Dynamic | | BasinWells, 2015a |
| | | 10/31/13 | 405.26 | | Static | | BasinWells, 2015a |
| | | 11/28/13 | 442.66 | | Dynamic | | BasinWells, 2015a |
| | | 12/9/13 | 405.53 | | Static | | BasinWells, 2015a |
| | | 1/28/14 | 424.78 | | Dynamic | | BasinWells, 2015a |
| | | 2/24/14 | 405.49 | | Static | | BasinWells, 2015a |
| | | 3/31/14 | 439.97 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/14 | 440.07 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 434.70 | Dynamic | 2676.01 | Sierrita EDMS |
| | | 6/9/14 | 434.70 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | 432.39 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | 431.80 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | 400.95 | | Static | | BasinWells, 2015a |
| | | 10/1/14 | 433.44 | | Dynamic | | BasinWells, 2015a |
| | | 11/4/14 | 433.39 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | 434.49 | | Dynamic | | BasinWells, 2015a |
| | | 4/9/15 | | 434.70 | Dynamic | 2676.01 | Sierrita EDMS |
| | | 5/2/15 | | 434.50 | Dynamic | 2676.21 | Sierrita EDMS |
| | | 6/11/15 | | 434.50 | Dynamic | 2676.21 | Sierrita EDMS |
| | | 7/8/15 | | 437.10 | Dynamic | 2673.61 | Sierrita EDMS |
| | | 10/7/15 | | 443.25 | Dynamic | 2667.46 | Sierrita EDMS |
| | | 11/4/15 | | 441.50 | Dynamic | 2669.21 | Sierrita EDMS |
| | | 12/9/15 | | 444.20 | Dynamic | 2666.51 | Sierrita EDMS |
| IW-29 | 3088.00 | 5/12/14 | | 389.50 | Static | 2698.50 | Sierrita EDMS |
| | | 5/13/14 | 389.75 | | Static | | BasinWells, 2015b |
| | | 8/27/14 | 394.7 | | Static | | BasinWells, 2015b |
| | | 4/9/15 | | 436.10 | Dynamic | 2651.90 | Sierrita EDMS |
| | | 5/2/15 | | 437.85 | Dynamic | 2650.15 | Sierrita EDMS |
| | | 6/11/15 | | 437.80 | Dynamic | 2650.20 | Sierrita EDMS |
| | | 7/18/15 | | 437.60 | Dynamic | 2650.40 | Sierrita EDMS |
| | | 10/7/15 | | 408.50 | Static | 2679.50 | Sierrita EDMS |
| | | 11/4/15 | | 437.88 | Dynamic | 2650.12 | Sierrita EDMS |
| | | 12/9/15 | | 407.90 | Static | 2680.10 | Sierrita EDMS |
| M-5 | 2997.03 | 6/16/15 | | 490.32 | Static | 2506.71 | Sierrita EDMS |
| | | 11/17/15 | | 494.45 | Static | 2502.58 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| M-8 | 2999.53 | 1/15/07 | | 460.92 | | 2538.61 | Sierrita EDMS |
| | | 4/16/07 | | 458.83 | | 2540.70 | |
| | | 7/10/07 | | 462.57 | | 2536.96 | |
| | | 10/8/07 | | 465.65 | | 2533.88 | |
| | | 1/9/08 | | 464.68 | | 2534.85 | |
| | | 4/14/08 | | 462.50 | | 2537.03 | |
| | | 7/25/08 | | 466.18 | | 2533.35 | |
| | | 10/28/08 | | 468.82 | | 2530.71 | |
| | | 1/20/09 | | 466.25 | | 2533.28 | |
| | | 5/12/09 | | 465.10 | | 2534.43 | |
| | | 11/5/09 | | 465.60 | | 2533.93 | |
| | | 5/28/10 | | 466.61 | | 2532.92 | |
| | | 10/21/10 | | 471.61 | | 2527.92 | |
| | | 6/15/11 | | 467.35 | | 2532.18 | |
| | | 11/17/11 | | 471.23 | | 2528.30 | |
| | | 6/29/12 | | 464.98 | | 2534.55 | |
| | | 10/29/12 | | 472.66 | | 2526.87 | |
| | | 4/17/13 | | 466.32 | | 2533.21 | |
| | | 5/21/13 | | 464.70 | | 2534.83 | |
| | | 10/29/13 | | 472.55 | | 2526.98 | |
| | | 3/12/14 | | 472.63 | | 2526.90 | |
| | | 4/22/14 | | 473.69 | | 2525.84 | |
| | | 5/8/14 | | 473.53 | | 2526.00 | |
| | | 6/9/14 | | 476.70 | Static | 2522.83 | |
| | | 7/28/14 | | 479.96 | | 2519.57 | |
| | | 8/7/14 | | 480.13 | | 2519.40 | |
| | | 9/8/14 | | 481.99 | Static | 2517.54 | |
| | | 10/28/14 | | 484.31 | | 2515.22 | |
| | | 11/4/14 | | 484.66 | | 2514.87 | |
| | | 12/16/14 | | 484.74 | Static | 2514.79 | |
| | | 1/29/15 | | 484.88 | Static | 2514.65 | |
| | | 2/27/15 | | 484.93 | Static | 2514.60 | |
| | | 3/19/15 | | 484.02 | Static | 2515.51 | |
| | | 4/6/15 | | 484.53 | Static | 2515.00 | |
| | | 5/21/15 | | 486.24 | Static | 2513.29 | |
| | | 6/1/15 | | 486.56 | Static | 2512.97 | |
| | | 7/23/15 | | UTM | Static | NA | |
| | | 8/31/15 | | UTM | Static | NA | |
| | | 10/26/15 | | UTM | Static | NA | |
| | | 11/17/15 | | UTM | Static | NA | |
| M-9 | 2973.81 | 7/18/06 | | 442.70 | | 2531.11 | Sierrita EDMS |
| | | 1/15/07 | | 445.76 | | 2528.05 | |
| | | 7/10/07 | | 450.75 | | 2523.06 | |
| | | 10/8/07 | | 453.15 | | 2520.66 | |
| | | 1/8/08 | | 447.50 | | 2526.31 | |
| | | 4/14/08 | | 448.50 | | 2525.31 | |
| | | 7/21/08 | | 454.27 | | 2519.54 | |
| | | 10/28/08 | | 457.72 | | 2516.09 | |
| | | 1/20/09 | | 450.78 | | 2523.03 | |
| | | 5/13/09 | | 452.00 | | 2521.81 | |
| | | 6/16/10 | | 453.85 | | 2519.96 | |
| | | 6/2/11 | | 452.35 | | 2521.46 | |
| | | 6/27/12 | | 455.78 | | 2518.03 | |
| | | 5/1/13 | | 473.80 | | 2500.01 | |
| | | 3/12/14 | | 483.66 | | 2490.15 | |
| | | 4/22/14 | | 464.39 | | 2509.42 | |
| | | 5/8/14 | | 464.37 | | 2509.44 | |
| | | 6/9/14 | | 457.78 | | 2516.03 | |
| | | 7/28/14 | | 461.34 | | 2512.47 | |
| | | 8/7/14 | | 462.06 | | 2511.75 | |
| | | 9/8/14 | | 463.43 | Static | 2510.38 | |
| | | 10/28/14 | | 464.55 | | 2509.26 | |
| | | 11/4/14 | | 466.10 | | 2507.71 | |
| | | 12/16/14 | | 467.81 | Static | 2506.00 | |
| | | 1/20/15 | | 461.04 | Static | 2512.77 | |
| | | 2/27/15 | | 465.19 | Static | 2508.62 | |
| | | 3/19/15 | | 460.12 | Static | 2513.69 | |
| | | 4/6/15 | | 460.84 | Static | 2512.97 | |
| | | 5/21/15 | | 461.18 | Static | 2512.63 | |
| | | 6/1/15 | | 461.29 | Static | 2512.52 | |
| | | 7/23/15 | | 467.84 | Static | 2505.97 | |
| | | 8/31/15 | | 469.81 | Static | 2504.00 | |
| | | 11/17/15 | | 470.74 | Static | 2503.07 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| M-10 | 3005.68 | 7/18/06 | | 472.72 | | 2532.96 | Sierrita EDMS |
| | | 1/15/07 | | 473.65 | | 2532.03 | |
| | | 4/16/07 | | 471.47 | | 2534.21 | |
| | | 7/10/07 | | 477.16 | | 2528.52 | |
| | | 10/8/07 | | 478.45 | | 2527.23 | |
| | | 1/8/08 | | 477.60 | | 2528.08 | |
| | | 4/14/08 | | 475.48 | | 2530.20 | |
| | | 7/21/08 | | 480.15 | | 2525.53 | |
| | | 10/28/08 | | 483.70 | | 2521.98 | |
| | | 1/20/09 | | 475.85 | | 2529.83 | |
| | | 5/12/09 | | 478.80 | | 2526.88 | |
| | | 11/5/09 | | 481.20 | | 2524.48 | |
| | | 6/4/10 | | 480.29 | | 2525.39 | |
| | | 10/21/10 | | 486.40 | | 2519.28 | |
| | | 5/10/11 | | 478.33 | | 2527.35 | |
| | | 11/16/11 | | 484.66 | | 2521.02 | |
| | | 6/25/12 | | 482.73 | | 2522.95 | |
| | | 10/29/12 | | 486.64 | | 2519.04 | |
| | | 4/17/13 | | 478.63 | | 2527.05 | |
| | | 10/29/13 | | 486.07 | | 2519.61 | |
| | | 4/22/14 | | 483.06 | Static | 2522.62 | |
| | | 11/4/14 | | 493.67 | Static | 2512.01 | |
| | | 4/6/15 | | 491.46 | Static | 2514.22 | |
| | | 10/26/15 | | UTM | Static | NA | |
| M-11 | 2938.82 | 6/16/15 | | 433.11 | Static | 2505.71 | Sieritta EDMS |
| | | 11/17/15 | | 435.43 | Static | 2503.39 | |
| M-13 | 3077.00 | 6/18/15 | | 569.71 | Static | 2369.11 | Sieritta EDMS |
| | | 11/17/15 | | 574.92 | Static | 2363.90 | |
| M-20 | 3054.00 | 7/18/06 | | 484.18 | | 2569.82 | Sierrita EDMS |
| | | 1/15/07 | | 489.14 | | 2564.86 | |
| | | 7/10/07 | | 486.70 | | 2567.30 | |
| | | 7/12/07 | | 493.26 | | 2560.74 | |
| | | 1/9/08 | | 495.80 | | 2558.20 | |
| | | 4/14/08 | | 494.22 | | 2559.78 | |
| | | 7/25/08 | | 493.70 | | 2560.30 | |
| | | 10/28/08 | | 498.00 | | 2556.00 | |
| | | 1/20/09 | | 497.75 | | 2556.25 | |
| | | 5/12/09 | | 496.80 | | 2557.20 | |
| | | 5/28/10 | | 498.51 | | 2555.49 | |
| | | 5/9/11 | | 499.14 | | 2554.86 | |
| | | 6/26/12 | | 500.50 | | 2553.50 | |
| | | 4/23/13 | | 499.65 | | 2554.35 | |
| | | 4/22/14 | | 511.42 | Static | 2542.58 | |
| | | 4/27/15 | | 529.31 | Static | 2524.69 | |
| | | 11/18/15 | | 536.18 | Static | 2517.82 | |
| MC-1 | 3038.621 | 5/22/13 | 418.97 | | Static | | BasinWells, 2015a |
| | | 5/22/13 | 435.55 | | Dynamic | | BasinWells, 2015a |
| | | 1/15/14 | | 440.93 | Dynamic | 2597.69 | Sierrita EDMS |
| | | 1/15/14 | 440.93 | | Dynamic | | BasinWells, 2015a |
| | | 1/22/14 | | 437.02 | Dynamic | 2601.60 | Sierrita EDMS |
| | | 1/22/14 | 437.02 | | Dynamic | | BasinWells, 2015a |
| | | 1/28/14 | 442.57 | | Dynamic | | BasinWells, 2015a |
| | | 1/29/14 | | 442.57 | Dynamic | 2596.05 | Sierrita EDMS |
| | | 2/5/14 | 443.86 | | Dynamic | | BasinWells, 2015a |
| | | 2/12/14 | 444.84 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | 447.98 | Dynamic | 2590.64 | Sierrita EDMS |
| | | 5/14/14 | | 455.31 | Dynamic | 2583.31 | Sierrita EDMS |
| | | 5/30/14 | 455.31 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 456.50 | Dynamic | 2582.12 | Sierrita EDMS |
| | | 6/9/14 | 456.50 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 458.90 | Dynamic | 2579.72 | Sierrita EDMS |
| | | 7/6/14 | 458.40 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 460.50 | Dynamic | 2578.12 | Sierrita EDMS |
| | | 7/31/14 | 460.50 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 462.20 | Dynamic | 2576.42 | Sierrita EDMS |
| | | 8/27/14 | 462.20 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 450.25 | Static | 2588.37 | Sierrita EDMS |
| | | 10/1/14 | 449.75 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 466.80 | Dynamic | 2571.82 | Sierrita EDMS |
| | | 11/4/14 | 466.30 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 468.10 | Dynamic | 2570.52 | Sierrita EDMS |
| | | 12/2/14 | 467.60 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 469.30 | Dynamic | 2569.32 | Sierrita |
| | | 2/4/15 | | 469.65 | Dynamic | 2568.97 | Sierrita |
| | | 3/3/15 | | 470.90 | Dynamic | 2567.72 | Sierrita |
| | | 4/9/15 | | 472.20 | Dynamic | 2566.42 | BasinWells |
| | | 5/2/15 | | 473.40 | Dynamic | 2565.22 | BasinWells |
| | | 6/11/15 | | 460.25 | Static | 2578.37 | BasinWells |
| | | 7/6/15 | | 475.74 | Dynamic | 2562.88 | BasinWells |
| | | 8/18/15 | | 462.52 | Static | 2576.10 | Sierrita |
| | | 10/7/15 | | 478.15 | Dynamic | 2560.47 | BasinWells |
| | | 11/4/15 | | 479.70 | Dynamic | 2558.92 | BasinWells |
| | | 12/9/15 | | 480.90 | Dynamic | 2557.72 | BasinWells |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MC-2 | 3008.28 | 3/24/13 | 412.55 | | Static | | BasinWells, 2015a |
| | | 3/24/13 | 431.52 | | Dynamic | | BasinWells, 2015a |
| | | 3/14/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 5/14/14 | | 440.68 | Dynamic | 2567.60 | Sierrita EDMS |
| | | 5/15/14 | | 440.66 | Dynamic | 2567.62 | Sierrita EDMS |
| | | 5/15/14 | 440.66 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/14 | | 442.47 | Dynamic | 2565.81 | Sierrita EDMS |
| | | 5/22/14 | 442.47 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/14 | 442.47 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 443.70 | Dynamic | 2564.58 | Sierrita EDMS |
| | | 6/9/14 | 443.70 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 445.80 | Dynamic | 2562.48 | Sierrita EDMS |
| | | 7/6/14 | 445.63 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 447.50 | Dynamic | 2560.78 | Sierrita EDMS |
| | | 7/31/14 | 447.50 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 449.30 | Dynamic | 2558.98 | Sierrita EDMS |
| | | 8/27/14 | 449.30 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 442.65 | Static | 2565.63 | Sierrita EDMS |
| | | 10/1/14 | 442.48 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 453.60 | Dynamic | 2554.68 | Sierrita EDMS |
| | | 11/4/14 | 453.43 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 454.75 | Dynamic | 2553.53 | Sierrita EDMS |
| | | 12/2/14 | 454.58 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 456.40 | Dynamic | 2551.88 | Sierrita |
| | | 3/3/15 | | 457.95 | Dynamic | 2550.33 | Sierrita |
| | | 4/9/15 | | 459.20 | Dynamic | 2549.08 | BasinWells |
| | | 5/2/15 | | 460.65 | Dynamic | 2547.63 | BasinWells |
| | | 6/11/15 | | 453.20 | Static | 2555.08 | BasinWells |
| | | 7/6/15 | | 463.20 | Dynamic | 2545.08 | BasinWells |
| | | 8/18/15 | | 464.40 | Dynamic | 2543.88 | Sierrita |
| | | 10/7/15 | | 465.95 | Dynamic | 2542.33 | BasinWells |
| | | 11/4/15 | | 466.50 | Dynamic | 2541.78 | BasinWells |
| | | 12/9/15 | | 467.70 | Dynamic | 2540.58 | BasinWells |
| MC-3 | 3062.33 | 12/3/12 | 491.98 | | Static | | BasinWells, 2015a |
| | | 12/3/12 | 507.05 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 5/13/14 | | 515.62 | Dynamic | 2546.71 | Sierrita EDMS |
| | | 5/15/14 | | 515.62 | Dynamic | 2546.71 | Sierrita EDMS |
| | | 5/15/14 | 515.62 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/14 | | 516.21 | Dynamic | 2546.12 | Sierrita EDMS |
| | | 5/22/14 | 516.21 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/14 | 516.21 | | Dynamic | | BasinWells, 2015a |
| | | 6/9/14 | | 517.70 | Dynamic | 2544.63 | Sierrita EDMS |
| | | 6/9/14 | 517.70 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 519.50 | Dynamic | 2542.83 | Sierrita EDMS |
| | | 7/6/14 | 518.83 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 521.40 | Dynamic | 2540.93 | Sierrita EDMS |
| | | 7/31/14 | 521.40 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 522.95 | Dynamic | 2539.38 | Sierrita EDMS |
| | | 8/27/14 | 522.95 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 519.75 | Static | 2542.58 | Sierrita EDMS |
| | | 10/1/14 | 519.08 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 527.25 | Dynamic | 2535.08 | Sierrita EDMS |
| | | 11/4/14 | 526.58 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 528.65 | Dynamic | 2533.68 | Sierrita EDMS |
| | | 12/2/14 | 527.98 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 530.50 | Dynamic | 2531.83 | Sierrita |
| | | 2/4/15 | | 531.21 | Dynamic | 2531.12 | Sierrita |
| | | 3/3/15 | | 532.10 | Dynamic | 2530.23 | Sierrita |
| | | 4/9/15 | | 533.10 | Dynamic | 2529.23 | BasinWells |
| | | 5/2/15 | | 534.05 | Dynamic | 2528.28 | BasinWells |
| | | 6/11/15 | | 531.35 | Static | 2530.98 | BasinWells |
| | | 7/6/15 | | 536.45 | Dynamic | 2525.88 | BasinWells |
| | | 8/18/15 | | 537.60 | Dynamic | 2524.73 | Sierrita |
| | | 10/7/15 | | 538.84 | Dynamic | 2523.49 | BasinWells |
| | | 11/4/15 | | 539.80 | Dynamic | 2522.53 | BasinWells |
| | | 12/9/15 | | 540.85 | Dynamic | 2521.48 | BasinWells |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MC-4 | 3096.035 | 8/13/12 | 530.67 | | Static | | BasinWells, 2015a |
| | | 8/13/12 | 548.72 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 5/13/14 | | 560.86 | Dynamic | 2535.18 | Sierrita EDMS |
| | | 5/15/14 | | 560.86 | Dynamic | 2535.18 | Sierrita EDMS |
| | | 5/15/14 | 560.86 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/14 | | 561.09 | Dynamic | 2534.95 | Sierrita EDMS |
| | | 5/22/14 | 561.09 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/14 | 561.09 | | Dynamic | | BasinWells, 2015a |
| | | 6/5/14 | | 561.90 | Dynamic | 2534.14 | Sierrita EDMS |
| | | 6/5/14 | 561.90 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 564.00 | Dynamic | 2532.04 | Sierrita EDMS |
| | | 7/6/14 | 563.06 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 565.70 | Dynamic | 2530.34 | Sierrita EDMS |
| | | 7/31/14 | 565.70 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 567.25 | Dynamic | 2528.79 | Sierrita EDMS |
| | | 8/27/14 | 567.25 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 558.80 | Static | 2537.24 | Sierrita EDMS |
| | | 10/1/14 | 557.86 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 572.20 | Dynamic | 2523.84 | Sierrita EDMS |
| | | 11/4/14 | 571.26 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 573.70 | Dynamic | 2522.34 | Sierrita EDMS |
| | | 12/2/14 | 572.76 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 575.35 | Dynamic | 2520.69 | Sierrita EDMS |
| | | 2/4/15 | | 576.10 | Dynamic | 2519.94 | Sierrita EDMS |
| | | 3/3/15 | | 576.95 | Dynamic | 2519.09 | Sierrita EDMS |
| | | 4/9/15 | | 577.95 | Dynamic | 2518.09 | Sierrita EDMS |
| | | 5/2/15 | | 579.10 | Dynamic | 2516.94 | Sierrita EDMS |
| | | 6/11/15 | | 569.10 | Static | 2526.94 | Sierrita EDMS |
| | | 7/6/15 | | 581.40 | Dynamic | 2514.64 | Sierrita EDMS |
| | | 8/18/15 | | 582.70 | Dynamic | 2513.34 | Sierrita EDMS |
| | | 10/7/15 | | UTM | Static | NA | Sierrita EDMS |
| | | 11/4/15 | | 585.00 | Dynamic | 2511.04 | Sierrita EDMS |
| | | 12/9/15 | | 586.30 | Dynamic | 2509.74 | Sierrita EDMS |
| MH-1 | 3179.27 | 11/21/06 | | 443.90 | | 2735.37 | Sierrita EDMS |
| | | 1/10/07 | | 444.15 | | 2735.12 | |
| | | 4/20/07 | | 442.70 | | 2736.57 | |
| | | 7/3/07 | | 441.33 | | 2737.94 | |
| | | 11/8/07 | | 440.10 | | 2739.17 | |
| | | 1/28/08 | | 439.97 | | 2739.30 | |
| | | 4/24/08 | | 440.44 | | 2738.83 | |
| | | 8/7/08 | | 439.65 | | 2739.62 | |
| | | 11/14/08 | | 441.45 | | 2737.82 | |
| | | 2/17/09 | | 440.90 | | 2738.37 | |
| | | 6/2/09 | | 440.70 | | 2738.57 | |
| | | 4/13/10 | | 438.62 | | 2740.65 | |
| | | 4/19/11 | | 436.65 | | 2742.62 | |
| | | 4/25/12 | | 436.95 | | 2742.32 | |
| | | 4/29/14 | | 448.90 | | 2730.37 | |
| | | 6/4/15 | | 460.67 | Static | 2718.60 | |
| | | 11/18/15 | | 467.79 | Static | 2711.48 | |
| MH-3 | 3155.87 | 12/18/06 | | 427.70 | | 2728.17 | Sierrita EDMS |
| | | 2/23/07 | | 427.31 | | 2728.56 | |
| | | 4/23/07 | | 425.51 | | 2730.36 | |
| | | 7/21/07 | | 424.22 | | 2731.65 | |
| | | 10/20/07 | | 422.15 | | 2733.72 | |
| | | 1/19/08 | | 424.80 | | 2731.07 | |
| | | 4/21/08 | | 425.44 | | 2730.43 | |
| | | 7/29/08 | | 424.15 | | 2731.72 | |
| | | 10/24/08 | | 426.10 | | 2729.77 | |
| | | 2/17/09 | | 425.46 | | 2730.41 | |
| | | 6/2/09 | | 425.18 | | 2730.69 | |
| | | 4/13/10 | | 418.92 | | 2736.95 | |
| | | 4/19/11 | | 420.10 | | 2735.77 | |
| | | 4/25/12 | | 419.53 | | 2736.34 | |
| | | 4/2/13 | | 425.84 | | 2730.03 | |
| | | 3/12/14 | | 433.09 | | 2722.78 | |
| | | 4/25/14 | | 436.44 | | 2719.43 | |
| | | 5/14/14 | | 436.40 | | 2719.47 | |
| | | 6/24/14 | | 436.38 | | 2719.49 | |
| | | 7/7/14 | | 439.20 | | 2716.67 | |
| | | 8/8/14 | | 440.46 | | 2715.41 | |
| | | 9/9/14 | | 441.45 | Static | 2714.42 | |
| | | 10/28/14 | | 441.25 | | 2714.62 | |
| | | 11/26/14 | | 441.30 | | 2714.57 | |
| | | 12/20/14 | | 441.33 | Static | 2714.54 | |
| | | 1/29/15 | | 441.35 | Static | 2714.52 | |
| | | 2/27/15 | | 441.33 | Static | 2714.54 | |
| | | 3/26/15 | | 445.39 | Static | 2710.48 | |
| | | 4/29/15 | | 445.36 | Static | 2710.51 | |
| | | 5/21/15 | | 445.34 | Static | 2710.53 | |
| | | 6/3/15 | | 445.40 | Static | 2710.47 | |
| | | 7/23/15 | | 448.90 | Static | 2706.97 | |
| | | 8/25/15 | | 450.58 | Static | 2705.29 | |
| | | 11/2/15 | | 453.46 | Static | 2702.41 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-5 | 3123.47 | 11/21/06 | | 389.22 | | 2734.25 | Sierrita EDMS |
| | | 1/12/07 | | 390.70 | | 2732.77 | |
| | | 4/20/07 | | 391.60 | | 2731.87 | |
| | | 7/3/07 | | 391.66 | | 2731.81 | |
| | | 11/8/07 | | 392.95 | | 2730.52 | |
| | | 1/28/08 | | 391.40 | | 2732.07 | |
| | | 4/24/08 | | 390.30 | | 2733.17 | |
| | | 8/7/08 | | 391.55 | | 2731.92 | |
| | | 11/14/08 | | 391.98 | | 2731.49 | |
| | | 2/17/09 | | 391.33 | | 2732.14 | |
| | | 6/2/09 | | 391.30 | | 2732.17 | |
| | | 4/13/10 | | 381.47 | | 2742.00 | |
| | | 4/18/11 | | 387.96 | | 2735.51 | |
| | | 6/14/12 | | 398.80 | | 2724.67 | |
| | | 5/23/13 | | 403.59 | | 2719.88 | |
| | | 4/29/14 | | Obstructed | | NA | |
| | | 5/22/14 | | Obstructed | | NA | |
| | | 5/28/14 | | 408.22 | | 2715.25 | |
| | | 6/16/15 | | 408.45 | Static | 2715.02 | |
| | | 11/18/15 | | 416.66 | Static | 2706.81 | |
| MH-6 | 3133.97 | 11/14/06 | | 381.65 | | 2752.32 | Sierrita EDMS |
| | | 1/9/07 | | 378.32 | | 2755.65 | |
| | | 4/20/07 | | 374.80 | | 2759.17 | |
| | | 7/3/07 | | 379.00 | | 2754.97 | |
| | | 11/8/07 | | 380.30 | | 2753.67 | |
| | | 1/28/08 | | 379.15 | | 2754.82 | |
| | | 4/24/08 | | 379.20 | | 2754.77 | |
| | | 8/7/08 | | 379.50 | | 2754.47 | |
| | | 11/14/08 | | 379.50 | | 2754.47 | |
| | | 2/17/09 | | 378.52 | | 2755.45 | |
| | | 6/2/09 | | 379.45 | | 2754.52 | |
| | | 4/13/10 | | 389.35 | | 2744.62 | |
| | | 5/17/11 | | 387.85 | | 2746.12 | |
| | | 6/7/12 | | 382.63 | | 2751.34 | |
| | | 4/2/13 | | 402.02 | | 2731.95 | |
| | | 4/29/14 | | 403.91 | | 2730.06 | |
| | | 6/4/15 | | 403.20 | Static | 2730.77 | |
| | | 11/18/15 | | 412.41 | Static | 2721.56 | |
| MH-7 | 3111.23 | 11/21/06 | | 357.85 | | 2753.38 | Sierrita EDMS |
| | | 1/12/07 | | 360.20 | | 2751.03 | |
| | | 4/20/07 | | 368.20 | | 2743.03 | |
| | | 7/3/07 | | 370.20 | | 2741.03 | |
| | | 11/8/07 | | 370.60 | | 2740.63 | |
| | | 1/28/08 | | 371.00 | | 2740.23 | |
| | | 4/24/08 | | 370.92 | | 2740.31 | |
| | | 8/8/08 | | 372.22 | | 2739.01 | |
| | | 11/14/08 | | 373.20 | | 2738.03 | |
| | | 2/17/09 | | 372.48 | | 2738.75 | |
| | | 6/2/09 | | 371.53 | | 2739.70 | |
| | | 4/13/10 | | 372.63 | | 2738.60 | |
| | | 4/18/11 | | 368.76 | | 2742.47 | |
| | | 6/14/12 | | 381.09 | | 2730.14 | |
| | | 5/23/13 | | 391.31 | | 2719.92 | |
| | | 4/29/14 | | 389.57 | | 2721.66 | |
| | | 6/4/15 | | 392.63 | Static | 2718.60 | |
| | | 11/18/15 | | 393.67 | Static | 2717.56 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-9 | 3162.57 | 11/8/06 | | 380.58 | | 2781.99 | Sierrita EDMS |
| | | 1/9/07 | | 362.10 | | 2800.47 | |
| | | 4/20/07 | | 363.60 | | 2798.97 | |
| | | 7/3/07 | | 365.25 | | 2797.32 | |
| | | 11/8/07 | | 367.95 | | 2794.62 | |
| | | 1/28/08 | | 368.58 | | 2793.99 | |
| | | 4/24/08 | | 367.08 | | 2795.49 | |
| | | 8/8/08 | | 370.38 | | 2792.19 | |
| | | 11/14/08 | | 371.70 | | 2790.87 | |
| | | 2/17/09 | | 371.97 | | 2790.60 | |
| | | 6/2/09 | | 370.30 | | 2792.27 | |
| | | 4/15/10 | | 373.30 | | 2789.27 | |
| | | 4/19/11 | | 375.11 | | 2787.46 | |
| | | 4/26/12 | | 380.49 | | 2782.08 | |
| | | 5/23/13 | | 386.04 | | 2776.53 | |
| | | 3/12/14 | | 390.22 | | 2772.35 | |
| | | 4/25/14 | | 390.54 | | 2772.03 | |
| | | 5/14/14 | | 390.45 | | 2772.12 | |
| | | 6/24/14 | | 390.41 | | 2772.16 | |
| | | 7/29/14 | | 388.82 | | 2773.75 | |
| | | 8/8/14 | | 387.62 | | 2774.95 | |
| | | 9/9/14 | | 387.00 | Static | 2775.57 | |
| | | 10/28/14 | | 387.73 | | 2774.84 | |
| | | 11/26/14 | | 388.10 | | 2774.47 | |
| | | 12/21/14 | | 388.40 | Static | 2774.17 | |
| | | 1/29/15 | | 388.56 | Static | 2774.01 | |
| | | 2/27/15 | | 388.62 | Static | 2773.95 | |
| | | 3/26/15 | | 388.39 | Static | 2774.18 | |
| | | 4/29/15 | | 388.42 | Static | 2774.15 | |
| | | 5/21/15 | | 388.45 | Static | 2774.12 | |
| | | 6/3/15 | | 388.51 | Static | 2774.06 | |
| | | 7/23/15 | | 389.72 | Static | 2772.85 | |
| | | 8/25/15 | | 388.55 | Static | 2774.02 | |
| | | 11/2/15 | | 388.62 | Static | 2773.95 | |
| MH-10 | 3187.84 | 11/8/06 | | 346.70 | | 2841.14 | Sierrita EDMS |
| | | 1/9/07 | | 364.80 | | 2823.04 | |
| | | 4/3/07 | | 355.65 | | 2832.19 | |
| | | 7/16/07 | | 356.75 | | 2831.09 | |
| | | 10/16/07 | | 357.60 | | 2830.24 | |
| | | 1/3/08 | | 358.32 | | 2829.52 | |
| | | 4/28/08 | | 358.83 | | 2829.01 | |
| | | 7/31/08 | | 358.50 | | 2829.34 | |
| | | 11/4/08 | | 360.00 | | 2827.84 | |
| | | 1/2/09 | | 360.15 | | 2827.69 | |
| | | 4/14/09 | | 363.50 | | 2824.34 | |
| | | 4/26/10 | | 362.04 | | 2825.80 | |
| | | 5/18/11 | | 363.39 | | 2824.45 | |
| | | 6/5/12 | | 366.25 | | 2821.59 | |
| | | 6/10/13 | | 369.96 | | 2817.88 | |
| | | 4/23/14 | | 371.84 | Static | 2816.00 | |
| | | 4/14/15 | | 374.09 | Static | 2813.75 | |
| | | 11/18/15 | | 375.39 | Static | 2812.45 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-11 | 3041.76 | 11/9/06 | | 369.90 | | 2671.86 | Sierrita EDMS |
| | | 1/11/07 | | 369.55 | | 2672.21 | |
| | | 4/10/07 | | 370.46 | | 2671.30 | |
| | | 7/17/07 | | 372.75 | | 2669.01 | |
| | | 10/3/07 | | 373.80 | | 2667.96 | |
| | | 1/4/08 | | 373.36 | | 2668.40 | |
| | | 4/29/08 | | 373.89 | | 2667.87 | |
| | | 7/29/08 | | 375.10 | | 2666.66 | |
| | | 11/7/08 | | 376.85 | | 2664.91 | |
| | | 3/19/09 | | 374.88 | | 2666.88 | |
| | | 5/13/09 | | 375.75 | | 2666.01 | |
| | | 4/27/10 | | 375.85 | | 2665.91 | |
| | | 5/24/11 | | 376.65 | | 2665.11 | |
| | | 5/24/12 | | 376.65 | | 2665.11 | |
| | | 4/23/13 | | 383.85 | | 2657.91 | |
| | | 3/12/14 | | 399.52 | | 2642.24 | |
| | | 4/29/14 | | 404.51 | | 2637.25 | |
| | | 5/14/14 | | 404.48 | | 2637.28 | |
| | | 6/12/14 | | 408.00 | | 2633.76 | |
| | | 7/28/14 | | 411.79 | | 2629.97 | |
| | | 8/7/14 | | 412.19 | | 2629.57 | |
| | | 9/8/14 | | 413.51 | Static | 2628.25 | |
| | | 10/29/14 | | 416.87 | | 2624.89 | |
| | | 11/26/14 | | 419.24 | | 2622.52 | |
| | | 12/17/14 | | 421.06 | Static | 2620.70 | |
| | | 1/29/15 | | 422.70 | Static | 2619.06 | |
| | | 2/27/15 | | 422.96 | Static | 2618.80 | |
| | | 3/18/15 | | 421.87 | Static | 2619.89 | |
| | | 4/16/15 | | 420.86 | Static | 2620.90 | |
| | | 5/21/15 | | 421.21 | Static | 2620.55 | |
| | | 6/2/15 | | 421.52 | Static | 2620.24 | |
| | | 7/24/15 | | 425.30 | Static | 2616.46 | |
| | | 8/14/15 | | 427.11 | Static | 2614.65 | |
| | | 11/5/15 | | 428.08 | Static | 2613.68 | |
| MH-12 | 3055.08 | 3/12/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 4/29/14 | | UTM | | NA | |
| | | 5/14/14 | | UTM | | NA | |
| | | 6/9/14 | | UTM | | NA | |
| | | 7/28/14 | | UTM | | NA | |
| | | 8/7/14 | | UTM | | NA | |
| | | 9/8/14 | | UTM | Static | NA | |
| | | 10/28/14 | | UTM | | NA | |
| | | 11/26/14 | | UTM | | NA | |
| | | 12/17/14 | | UTM | Static | NA | |
| | | 1/28/15 | | UTM | | NA | |
| | | 2/27/15 | | UTM | | NA | |
| | | 3/18/15 | | UTM | | NA | |
| | | 4/2/15 | | UTM | | NA | |
| | | 5/21/15 | | UTM | | NA | |
| | | 6/11/15 | | UTM | Static | NA | |
| | | 7/23/15 | | UTM | Static | NA | |
| | | 8/25/15 | | UTM | Static | NA | |
| | | 11/5/15 | | UTM | Static | NA | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-13A | 3026.23 | 11/10/06 | | 327.84 | | 2698.39 | Sierrita EDMS |
| | | 1/24/07 | | 326.35 | | 2699.88 | |
| | | 4/18/07 | | 328.14 | | 2698.09 | |
| | | 7/17/07 | | 330.98 | | 2695.25 | |
| | | 10/4/07 | | 331.70 | | 2694.53 | |
| | | 1/4/08 | | 330.85 | | 2695.38 | |
| | | 4/29/08 | | 331.80 | | 2694.43 | |
| | | 7/16/08 | | 333.78 | | 2692.45 | |
| | | 10/20/08 | | 334.64 | | 2691.59 | |
| | | 1/23/09 | | 332.98 | | 2693.25 | |
| | | 4/15/09 | | 332.19 | | 2694.04 | |
| | | 4/21/10 | | 333.27 | | 2692.96 | |
| | | 5/23/11 | | 334.40 | | 2691.83 | |
| | | 6/11/12 | | 337.90 | | 2688.33 | |
| | | 4/3/13 | | 344.58 | | 2681.65 | |
| | | 3/12/14 | | 353.78 | | 2672.45 | |
| | | 4/10/14 | | 355.73 | | 2670.50 | |
| | | 5/14/14 | | 355.70 | | 2670.53 | |
| | | 6/12/14 | | 360.00 | | 2666.23 | |
| | | 7/28/14 | | 362.78 | | 2663.45 | |
| | | 8/7/14 | | 363.32 | | 2662.91 | |
| | | 9/8/14 | | 364.56 | Static | 2661.67 | |
| | | 10/29/14 | | 365.24 | | 2660.99 | |
| | | 11/26/14 | | 365.91 | | 2660.32 | |
| | | 12/17/14 | | 366.51 | Static | 2659.72 | |
| | | 1/29/15 | | 366.84 | Static | 2659.39 | |
| | | 2/27/15 | | 366.90 | Static | 2659.33 | |
| | | 3/18/15 | | 370.52 | Static | 2655.71 | |
| | | 4/22/15 | | 370.80 | Static | 2655.43 | |
| | | 5/21/15 | | 370.92 | Static | 2655.31 | |
| | | 6/2/15 | | 371.02 | Static | 2655.21 | |
| | | 7/23/15 | | 371.17 | Static | 2655.06 | |
| | | 8/25/15 | | 375.27 | Static | 2650.96 | |
| | | 11/5/15 | | 377.29 | Static | 2648.94 | |
| MH-13B | 3025.63 | 11/10/06 | | 330.70 | | 2694.93 | Sierrita EDMS |
| | | 1/24/07 | | 330.58 | | 2695.05 | |
| | | 4/18/07 | | 332.21 | | 2693.42 | |
| | | 7/17/07 | | 335.47 | | 2690.16 | |
| | | 10/3/07 | | 335.90 | | 2689.73 | |
| | | 1/4/08 | | 334.85 | | 2690.78 | |
| | | 4/29/08 | | 336.35 | | 2689.28 | |
| | | 7/16/08 | | 337.92 | | 2687.71 | |
| | | 10/20/08 | | 339.14 | | 2686.49 | |
| | | 1/23/09 | | 337.20 | | 2688.43 | |
| | | 4/15/09 | | 336.50 | | 2689.13 | |
| | | 4/21/10 | | 337.47 | | 2688.16 | |
| | | 5/23/11 | | 338.75 | | 2686.88 | |
| | | 6/11/12 | | 342.50 | | 2683.13 | |
| | | 4/3/13 | | 348.98 | | 2676.65 | |
| | | 3/12/14 | | 358.93 | | 2666.70 | |
| | | 4/10/14 | | 361.02 | | 2664.61 | |
| | | 5/14/14 | | 360.97 | | 2664.66 | |
| | | 6/12/14 | | 365.82 | | 2659.81 | |
| | | 7/28/14 | | 368.39 | | 2657.24 | |
| | | 8/7/14 | | 369.30 | | 2656.33 | |
| | | 9/8/14 | | 369.93 | Static | 2655.70 | |
| | | 10/29/14 | | 370.39 | | 2655.24 | |
| | | 11/26/14 | | 370.78 | | 2654.85 | |
| | | 12/17/14 | | 371.23 | Static | 2654.40 | |
| | | 1/29/15 | | 372.73 | Static | 2652.90 | |
| | | 2/27/15 | | 373.00 | Static | 2652.63 | |
| | | 3/18/15 | | 375.64 | Static | 2649.99 | |
| | | 4/22/15 | | 375.55 | Static | 2650.08 | |
| | | 5/21/15 | | 375.62 | Static | 2650.01 | |
| | | 6/2/15 | | 375.68 | Static | 2649.95 | |
| | | 7/23/15 | | 375.75 | Static | 2649.88 | |
| | | 8/25/15 | | 380.98 | Static | 2644.65 | |
| | | 11/5/15 | | 383.30 | Static | 2642.33 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-13C | 3028.46 | 11/10/06 | | 335.38 | | 2693.08 | Sierrita EDMS |
| | | 1/24/07 | | 335.45 | | 2693.01 | |
| | | 4/18/07 | | 337.80 | | 2690.66 | |
| | | 7/17/07 | | 339.82 | | 2688.64 | |
| | | 10/4/07 | | 340.75 | | 2687.71 | |
| | | 1/4/08 | | 340.42 | | 2688.04 | |
| | | 4/29/08 | | 341.55 | | 2686.91 | |
| | | 7/16/08 | | 343.35 | | 2685.11 | |
| | | 10/20/08 | | 344.57 | | 2683.89 | |
| | | 1/23/09 | | 343.82 | | 2684.64 | |
| | | 4/15/09 | | 343.08 | | 2685.38 | |
| | | 4/21/10 | | 343.86 | | 2684.60 | |
| | | 5/23/11 | | 344.30 | | 2684.16 | |
| | | 6/11/12 | | 348.75 | | 2679.71 | |
| | | 4/3/13 | | 353.62 | | 2674.84 | |
| | | 3/12/14 | | 362.99 | | 2665.47 | |
| | | 4/10/14 | | 365.21 | | 2663.25 | |
| | | 5/14/14 | | 365.22 | | 2663.24 | |
| | | 6/12/14 | | 370.51 | | 2657.95 | |
| | | 7/28/14 | | 373.52 | | 2654.94 | |
| | | 8/7/14 | | 374.46 | | 2654.00 | |
| | | 9/8/14 | | 375.79 | Static | 2652.67 | |
| | | 10/29/14 | | 376.54 | | 2651.92 | |
| | | 11/26/14 | | 377.00 | | 2651.46 | |
| | | 12/17/14 | | 377.60 | Static | 2650.86 | |
| | | 1/29/15 | | 378.11 | Static | 2650.35 | |
| | | 2/27/15 | | 378.52 | Static | 2649.94 | |
| | | 3/18/15 | | 382.36 | Static | 2646.10 | |
| | | 4/22/15 | | 382.61 | Static | 2645.85 | |
| | | 5/21/15 | | 382.75 | Static | 2645.71 | |
| | | 6/2/15 | | 382.87 | Static | 2645.59 | |
| | | 7/23/15 | | 382.94 | Static | 2645.52 | |
| | | 8/25/15 | | 386.44 | Static | 2642.02 | |
| | | 11/5/15 | | 388.32 | Static | 2640.14 | |
| MH-14 | 3153.46 | 12/18/06 | | 427.28 | | 2726.18 | Sierrita EDMS |
| | | 2/23/07 | | 426.75 | | 2726.71 | |
| | | 4/23/07 | | 425.58 | | 2727.88 | |
| | | 7/10/07 | | 424.20 | | 2729.26 | |
| | | 10/17/07 | | 422.80 | | 2730.66 | |
| | | 1/18/08 | | 424.87 | | 2728.59 | |
| | | 4/8/08 | | 425.13 | | 2728.33 | |
| | | 7/22/08 | | 423.92 | | 2729.54 | |
| | | 10/6/08 | | 426.03 | | 2727.43 | |
| | | 2/13/09 | | 425.90 | | 2727.56 | |
| | | 4/7/09 | | 424.90 | | 2728.56 | |
| | | 4/15/10 | | 422.91 | | 2730.55 | |
| | | 8/12/10 | | 421.82 | | 2731.64 | |
| | | 4/19/11 | | 418.94 | | 2734.52 | |
| | | 4/25/12 | | 419.83 | | 2733.63 | |
| | | 4/2/13 | | 425.59 | | 2727.87 | |
| | | 10/21/13 | | 426.13 | | 2727.33 | |
| | | 1/3/14 | | 426.45 | | 2727.01 | |
| | | 3/12/14 | | UTM | | NA | |
| | | 3/25/14 | | 435.04 | | 2718.42 | |
| | | 4/9/14 | | 436.20 | | 2717.26 | |
| | | 5/14/14 | | 436.12 | | 2717.34 | |
| | | 6/24/14 | | 436.09 | | 2717.37 | |
| | | 7/7/14 | | 440.32 | | 2713.14 | |
| | | 8/8/14 | | 441.58 | | 2711.88 | |
| | | 9/9/14 | | 442.76 | Static | 2710.70 | |
| | | 10/28/14 | | 442.79 | | 2710.67 | |
| | | 11/4/14 | | 443.64 | | 2709.82 | |
| | | 12/20/14 | | 444.48 | Static | 2708.98 | |
| | | 1/7/15 | | 445.85 | Static | 2707.61 | |
| | | 2/27/15 | | 446.20 | Static | 2707.26 | |
| | | 3/26/15 | | 447.25 | Static | 2706.21 | |
| | | 4/21/15 | | 447.63 | Static | 2705.83 | |
| | | 5/21/15 | | 447.89 | Static | 2705.57 | |
| | | 6/2/15 | | 447.93 | Static | 2705.53 | |
| | | 7/6/15 | | 449.87 | Static | 2703.59 | |
| | | 8/25/15 | | 452.49 | Static | 2700.97 | |
| | | 10/7/15 | | 454.52 | Static | 2698.94 | |
| | | 11/18/15 | | 454.44 | Static | 2699.02 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-15E | 3111.37 | 11/10/06 | | 385.25 | | 2726.12 | Sierrita EDMS |
| | | 2/23/07 | | 384.07 | | 2727.30 | |
| | | 4/23/07 | | 385.11 | | 2726.26 | |
| | | 7/21/07 | | 385.80 | | 2725.57 | |
| | | 10/20/07 | | 387.08 | | 2724.29 | |
| | | 1/18/08 | | 386.60 | | 2724.77 | |
| | | 4/21/08 | | 386.18 | | 2725.19 | |
| | | 7/29/08 | | 387.39 | | 2723.98 | |
| | | 10/24/08 | | 388.51 | | 2722.86 | |
| | | 2/17/09 | | 387.46 | | 2723.91 | |
| | | 6/2/09 | | 386.98 | | 2724.39 | |
| | | 4/13/10 | | 386.17 | | 2725.20 | |
| | | 4/18/11 | | 382.69 | | 2728.68 | |
| | | 6/14/12 | | 391.96 | | 2719.41 | |
| | | 4/2/13 | | 407.42 | | 2703.95 | |
| | | 3/12/14 | | 409.49 | | 2701.88 | |
| | | 4/25/14 | | 410.59 | | 2700.78 | |
| | | 5/14/14 | | 410.62 | | 2700.75 | |
| | | 6/24/14 | | 410.60 | | 2700.77 | |
| | | 7/29/14 | | 404.02 | | 2707.35 | |
| | | 8/8/14 | | 404.33 | | 2707.04 | |
| | | 9/9/14 | | 404.56 | Static | 2706.81 | |
| | | 10/28/14 | | 402.90 | | 2708.47 | |
| | | 11/26/14 | | 403.20 | | 2708.17 | |
| | | 12/20/14 | | 403.49 | Static | 2707.88 | |
| | | 1/29/15 | | 403.64 | Static | 2707.73 | |
| | | 2/27/15 | | 403.66 | Static | 2707.71 | |
| | | 3/26/15 | | 401.26 | Static | 2710.11 | |
| | | 4/29/15 | | 401.28 | Static | 2710.09 | |
| | | 5/21/15 | | 401.25 | Static | 2710.12 | |
| | | 6/3/15 | | 401.31 | Static | 2710.06 | |
| | | 7/23/15 | | 411.84 | Static | 2699.53 | |
| | | 8/25/15 | | 416.47 | Static | 2694.90 | |
| | | 11/2/15 | | 421.92 | Static | 2689.45 | |
| MH-15W | 3117.07 | 12/18/06 | | 391.30 | | 2725.77 | Sierrita EDMS |
| | | 2/23/07 | | 390.00 | | 2727.07 | |
| | | 4/23/07 | | 391.18 | | 2725.89 | |
| | | 7/11/07 | | 390.85 | | 2726.22 | |
| | | 10/17/07 | | 393.10 | | 2723.97 | |
| | | 1/18/08 | | 392.90 | | 2724.17 | |
| | | 4/8/08 | | 391.00 | | 2726.07 | |
| | | 7/1/08 | | 392.70 | | 2724.37 | |
| | | 10/6/08 | | 394.00 | | 2723.07 | |
| | | 1/7/09 | | 392.55 | | 2724.52 | |
| | | 5/6/09 | | 390.25 | | 2726.82 | |
| | | 4/15/10 | | 390.58 | | 2726.49 | |
| | | 8/12/10 | | 389.20 | | 2727.87 | |
| | | 5/17/11 | | 388.95 | | 2728.12 | |
| | | 4/25/12 | | 397.62 | | 2719.45 | |
| | | 5/28/13 | | 409.15 | | 2707.92 | |
| | | 12/12/13 | | 414.19 | | 2702.88 | |
| | | 1/3/14 | | 412.60 | | 2704.47 | |
| | | 3/12/14 | | 414.01 | | 2703.06 | |
| | | 4/9/14 | | 412.76 | | 2704.31 | |
| | | 5/14/14 | | 412.77 | | 2704.30 | |
| | | 6/24/14 | | 412.74 | | 2704.33 | |
| | | 7/7/14 | | 413.44 | | 2703.63 | |
| | | 8/8/14 | | 409.65 | | 2707.42 | |
| | | 9/9/14 | | 407.53 | Static | 2709.54 | |
| | | 10/28/14 | | 403.64 | | 2713.43 | |
| | | 11/4/14 | | 405.18 | | 2711.89 | |
| | | 12/20/14 | | 406.58 | Static | 2710.49 | |
| | | 1/7/15 | | 405.68 | Static | 2711.39 | |
| | | 2/27/15 | | 405.79 | Static | 2711.28 | |
| | | 3/26/15 | | 401.30 | Static | 2715.77 | |
| | | 4/21/15 | | 401.33 | Static | 2715.74 | |
| | | 5/18/15 | | 401.27 | Static | 2715.80 | |
| | | 6/3/15 | | 401.36 | Static | 2715.71 | |
| | | 7/6/15 | | 401.37 | Static | 2715.70 | |
| | | 8/25/15 | | 419.08 | Static | 2697.99 | |
| | | 10/8/15 | | UTM | Static | NA | |
| | | 11/2/15 | | UTM | Static | NA | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-16E | 3097.72 | 12/18/06 | | 344.70 | | 2753.02 | Sierrita EDMS |
| | | 2/23/07 | | 349.39 | | 2748.33 | |
| | | 4/23/07 | | 352.85 | | 2744.87 | |
| | | 7/21/07 | | 355.00 | | 2742.72 | |
| | | 10/20/07 | | 355.55 | | 2742.17 | |
| | | 1/19/08 | | 355.30 | | 2742.42 | |
| | | 4/21/08 | | 355.15 | | 2742.57 | |
| | | 7/29/08 | | 356.78 | | 2740.94 | |
| | | 10/24/08 | | 357.62 | | 2740.10 | |
| | | 2/17/09 | | 357.02 | | 2740.70 | |
| | | 6/2/09 | | 354.15 | | 2743.57 | |
| | | 4/13/10 | | 357.71 | | 2740.01 | |
| | | 4/18/11 | | 354.93 | | 2742.79 | |
| | | 4/26/12 | | 362.82 | | 2734.90 | |
| | | 5/23/13 | | 364.82 | | 2732.90 | |
| | | 3/12/14 | | 384.61 | | 2713.11 | |
| | | 4/25/14 | | 382.54 | | 2715.18 | |
| | | 5/14/14 | | 382.56 | | 2715.16 | |
| | | 6/24/14 | | 382.55 | | 2715.17 | |
| | | 7/29/14 | | 380.17 | | 2717.55 | |
| | | 8/8/14 | | 381.30 | | 2716.42 | |
| | | 9/9/14 | | 382.26 | Static | 2715.46 | |
| | | 10/28/14 | | 379.10 | | 2718.62 | |
| | | 11/26/14 | | 380.26 | | 2717.46 | |
| | | 12/21/14 | | 381.24 | Static | 2716.48 | |
| | | 1/29/15 | | 381.30 | Static | 2716.42 | |
| | | 2/27/15 | | 381.33 | Static | 2716.39 | |
| | | 3/26/15 | | 379.61 | Static | 2718.11 | |
| | | 4/29/15 | | 379.56 | Static | 2718.16 | |
| | | 5/21/15 | | 379.58 | Static | 2718.14 | |
| | | 6/3/15 | | 379.64 | Static | 2718.08 | |
| | | 7/23/15 | | 385.44 | Static | 2712.28 | |
| | | 8/25/15 | | 386.73 | Static | 2710.99 | |
| | | 11/2/15 | | 389.51 | Static | 2708.21 | |
| MH-16W | 3100.24 | 12/18/06 | | 346.62 | | 2753.62 | Sierrita EDMS |
| | | 2/23/07 | | 352.18 | | 2748.06 | |
| | | 4/23/07 | | 355.75 | | 2744.49 | |
| | | 7/11/07 | | 357.47 | | 2742.77 | |
| | | 10/17/07 | | 357.75 | | 2742.49 | |
| | | 1/3/08 | | 357.80 | | 2742.44 | |
| | | 4/24/08 | | 357.87 | | 2742.37 | |
| | | 7/22/08 | | 359.24 | | 2741.00 | |
| | | 10/8/08 | | 360.03 | | 2740.21 | |
| | | 3/19/09 | | 358.73 | | 2741.51 | |
| | | 4/7/09 | | 358.60 | | 2741.64 | |
| | | 4/15/10 | | 360.31 | | 2739.93 | |
| | | 8/12/10 | | 360.42 | | 2739.82 | |
| | | 5/17/11 | | 357.55 | | 2742.69 | |
| | | 4/25/12 | | 364.24 | | 2736.00 | |
| | | 4/2/13 | | 377.99 | | 2722.25 | |
| | | 10/21/13 | | 387.88 | | 2712.36 | |
| | | 1/3/14 | | 389.39 | | 2710.85 | |
| | | 3/12/14 | | 385.88 | | 2714.36 | |
| | | 4/9/14 | | 383.83 | | 2716.41 | |
| | | 5/14/14 | | 383.87 | | 2716.37 | |
| | | 6/24/14 | | 383.89 | | 2716.35 | |
| | | 7/7/14 | | 381.43 | | 2718.81 | |
| | | 8/8/14 | | 382.48 | | 2717.76 | |
| | | 9/9/14 | | 383.38 | Static | 2716.86 | |
| | | 10/28/14 | | 379.41 | | 2720.83 | |
| | | 11/4/14 | | 380.82 | | 2719.42 | |
| | | 12/21/14 | | 382.11 | Static | 2718.13 | |
| | | 1/7/15 | | 382.74 | Static | 2717.50 | |
| | | 2/27/15 | | 382.81 | Static | 2717.43 | |
| | | 3/26/15 | | 379.84 | Static | 2720.40 | |
| | | 4/21/15 | | 381.49 | Static | 2718.75 | |
| | | 5/21/15 | | 381.20 | Static | 2719.04 | |
| | | 6/3/15 | | 381.43 | Static | 2718.81 | |
| | | 7/6/15 | | 385.73 | Static | 2714.51 | |
| | | 8/25/15 | | 387.68 | Static | 2712.56 | |
| | | 10/8/15 | | 386.10 | Static | 2714.14 | |
| | | 11/2/15 | | 387.14 | Static | 2713.10 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-24 | 3131.16 | 11/21/06 | | 397.50 | | 2733.66 | Sierrita EDMS |
| | | 4/20/07 | | 399.35 | | 2731.81 | |
| | | 8/3/07 | | 399.33 | | 2731.83 | |
| | | 11/8/07 | | 400.50 | | 2730.66 | |
| | | 1/30/08 | | 396.90 | | 2734.26 | |
| | | 4/24/08 | | 395.89 | | 2735.27 | |
| | | 8/7/08 | | 396.78 | | 2734.38 | |
| | | 11/14/08 | | 396.88 | | 2734.28 | |
| | | 2/17/09 | | 396.31 | | 2734.85 | |
| | | 6/2/09 | | 396.50 | | 2734.66 | |
| | | 4/13/10 | | 386.43 | | 2744.73 | |
| | | 4/18/11 | | 392.84 | | 2738.32 | |
| | | 4/25/12 | | 396.58 | | 2734.58 | |
| | | 4/2/13 | | 408.56 | | 2722.60 | |
| | | 4/29/14 | | Obstructed | | NA | |
| | | 5/22/14 | | 407.41 | | 2723.75 | |
| | | 6/4/15 | | 404.82 | Static | 2726.34 | |
| | | 11/18/15 | | UTM | Static | NA | |
| MH-25A | 3056.57 | 11/13/06 | | 454.11 | | 2602.46 | Sierrita EDMS |
| | | 1/10/07 | | 453.10 | | 2603.47 | |
| | | 4/4/07 | | 452.20 | | 2604.37 | |
| | | 7/20/07 | | 454.02 | | 2602.55 | |
| | | 10/3/07 | | 454.69 | | 2601.88 | |
| | | 1/2/08 | | 454.82 | | 2601.75 | |
| | | 4/25/08 | | 454.47 | | 2602.10 | |
| | | 7/2/08 | | 455.68 | | 2600.89 | |
| | | 10/17/08 | | 457.49 | | 2599.08 | |
| | | 1/5/09 | | 457 | | 2599.57 | |
| | | 4/15/09 | | 455.90 | | 2600.67 | |
| | | 4/13/10 | | 458.10 | | 2598.47 | |
| | | 4/27/11 | | 459.25 | | 2597.32 | |
| | | 5/1/12 | | 459.69 | | 2596.88 | |
| | | 4/3/13 | | 461.70 | | 2594.87 | |
| | | 3/12/14 | | 473.95 | | 2582.62 | |
| | | 4/15/14 | | 477.45 | | 2579.12 | |
| | | 5/13/14 | | 477.40 | | 2579.17 | |
| | | 6/9/14 | | 482.36 | | 2574.21 | |
| | | 7/28/14 | | 486.66 | | 2569.91 | |
| | | 8/7/14 | | 488.09 | | 2568.48 | |
| | | 9/8/14 | | 489.49 | Static | 2567.08 | |
| | | 10/29/14 | | 492.67 | | 2563.90 | |
| | | 11/26/14 | | 495.20 | | 2561.37 | |
| | | 12/17/14 | | 497.76 | Static | 2558.81 | |
| | | 1/29/15 | | 499.10 | Static | 2557.47 | |
| | | 2/27/15 | | 500.16 | Static | 2556.41 | |
| | | 3/18/15 | | 498.50 | Static | 2558.07 | |
| | | 4/7/15 | | 499.37 | Static | 2557.20 | |
| | | 5/21/15 | | 501.39 | Static | 2555.18 | |
| | | 6/1/15 | | 503.19 | Static | 2553.38 | |
| | | 8/31/15 | | 505.05 | Static | 2551.52 | |
| | | 11/5/15 | | 505.24 | Static | 2551.33 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-25B | 3058.22 | 11/13/06 | | 455.36 | | 2602.86 | Sierrita EDMS |
| | | 1/10/07 | | 454.28 | | 2603.94 | |
| | | 4/4/07 | | 453.20 | | 2605.02 | |
| | | 7/20/07 | | 455.32 | | 2602.90 | |
| | | 10/3/07 | | 456.01 | | 2602.21 | |
| | | 1/2/08 | | 456.05 | | 2602.17 | |
| | | 4/25/08 | | 456.02 | | 2602.20 | |
| | | 7/2/08 | | 457.10 | | 2601.12 | |
| | | 10/17/08 | | 458.39 | | 2599.83 | |
| | | 1/5/09 | | 458.38 | | 2599.84 | |
| | | 4/15/09 | | 457.28 | | 2600.94 | |
| | | 4/13/10 | | 458.27 | | 2599.95 | |
| | | 4/27/11 | | 460.35 | | 2597.87 | |
| | | 6/15/11 | | 460.85 | | 2597.37 | |
| | | 5/1/12 | | 460.90 | | 2597.32 | |
| | | 4/3/13 | | 463.02 | | 2595.20 | |
| | | 3/12/14 | | 475.49 | | 2582.73 | |
| | | 4/15/14 | | 478.92 | | 2579.30 | |
| | | 5/13/14 | | 478.93 | | 2579.29 | |
| | | 6/9/14 | | 483.75 | | 2574.47 | |
| | | 7/28/14 | | 488.06 | | 2570.16 | |
| | | 8/7/14 | | 489.41 | | 2568.81 | |
| | | 9/8/14 | | 490.78 | Static | 2567.44 | |
| | | 10/29/14 | | 493.95 | | 2564.27 | |
| | | 11/26/14 | | 496.89 | | 2561.33 | |
| | | 12/17/14 | | 499.64 | Static | 2558.58 | |
| | | 1/29/15 | | 501.19 | Static | 2557.03 | |
| | | 2/27/15 | | 502.38 | Static | 2555.84 | |
| | | 3/18/15 | | 499.72 | Static | 2558.50 | |
| | | 4/7/15 | | 500.60 | Static | 2557.62 | |
| | | 5/21/15 | | 502.63 | Static | 2555.59 | |
| | | 6/1/15 | | 502.94 | Static | 2555.28 | |
| | | 7/23/15 | | 504.42 | Static | 2553.80 | |
| | | 8/31/15 | | UTM | Static | NA | |
| | | 11/5/15 | | UTM | Static | NA | |
| MH-25C | 3057.24 | 11/13/06 | | 454.65 | | 2602.59 | Sierrita EDMS |
| | | 1/10/07 | | 453.57 | | 2603.67 | |
| | | 4/13/07 | | 452.30 | | 2604.94 | |
| | | 7/20/07 | | 454.42 | | 2602.82 | |
| | | 10/3/07 | | 455.19 | | 2602.05 | |
| | | 1/2/08 | | 455.06 | | 2602.18 | |
| | | 4/25/08 | | 454.84 | | 2602.40 | |
| | | 7/2/08 | | 456.23 | | 2601.01 | |
| | | 10/17/08 | | 457.49 | | 2599.75 | |
| | | 1/5/09 | | 457.30 | | 2599.94 | |
| | | 4/15/09 | | 456.41 | | 2600.83 | |
| | | 4/13/10 | | 459.28 | | 2597.96 | |
| | | 4/27/11 | | 459.16 | | 2598.08 | |
| | | 6/15/11 | | 459.52 | | 2597.72 | |
| | | 5/1/12 | | 459.76 | | 2597.48 | |
| | | 4/3/13 | | 461.80 | | 2595.44 | |
| | | 3/12/14 | | 474.31 | | 2582.93 | |
| | | 4/15/14 | | 477.67 | | 2579.57 | |
| | | 5/13/14 | | 477.63 | | 2579.61 | |
| | | 6/9/14 | | 482.63 | | 2574.61 | |
| | | 7/28/14 | | 487.01 | | 2570.23 | |
| | | 8/7/14 | | 488.25 | | 2568.99 | |
| | | 9/8/14 | | 489.69 | Static | 2567.55 | |
| | | 10/29/14 | | 492.81 | | 2564.43 | |
| | | 11/26/14 | | 495.28 | | 2561.96 | |
| | | 12/17/14 | | 497.94 | Static | 2559.30 | |
| | | 1/29/15 | | 500.06 | Static | 2557.18 | |
| | | 2/27/15 | | 501.45 | Static | 2555.79 | |
| | | 3/18/15 | | 498.51 | Static | 2558.73 | |
| | | 4/7/15 | | UTM | Static | NA | |
| | | 5/21/15 | | UTM | Static | NA | |
| | | 6/1/15 | | UTM | Static | NA | |
| | | 7/23/15 | | UTM | Static | NA | |
| | | 8/31/15 | | UTM | Static | NA | |
| | | 11/5/15 | | UTM | Static | NA | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-26A | 3070.89 | 11/13/06 | | 495.74 | | 2575.15 | Sierrita EDMS |
| | | 1/15/07 | | 495.65 | | 2575.24 | |
| | | 4/4/07 | | 493.75 | | 2577.14 | |
| | | 7/19/07 | | 495.02 | | 2575.87 | |
| | | 10/2/07 | | 496.12 | | 2574.77 | |
| | | 1/2/08 | | 496.28 | | 2574.61 | |
| | | 4/25/08 | | 495.73 | | 2575.16 | |
| | | 7/2/08 | | 496.98 | | 2573.91 | |
| | | 10/17/08 | | 498.23 | | 2572.66 | |
| | | 1/5/09 | | 498.76 | | 2572.13 | |
| | | 4/21/09 | | 497.85 | | 2573.04 | |
| | | 4/13/10 | | 499.68 | | 2571.21 | |
| | | 4/27/11 | | 500.71 | | 2570.18 | |
| | | 5/2/12 | | 501.05 | | 2569.84 | |
| | | 4/4/13 | | 501.96 | | 2568.93 | |
| | | 3/12/14 | | 513.50 | | 2557.39 | |
| | | 4/15/14 | | 513.40 | | 2557.49 | |
| | | 5/13/14 | | 513.36 | | 2557.53 | |
| | | 6/9/14 | | 520.93 | | 2549.96 | |
| | | 7/28/14 | | 524.95 | | 2545.94 | |
| | | 8/7/14 | | 525.55 | | NA | |
| | | 9/8/14 | | UTM | Static | NA | |
| | | 10/28/14 | | UTM | | NA | |
| | | 11/26/14 | | UTM | | NA | |
| | | 12/16/14 | | UTM | Static | NA | |
| | | 1/29/15 | | UTM | Static | NA | |
| | | 2/27/15 | | UTM | Static | NA | |
| | | 3/18/15 | | UTM | Static | NA | |
| | | 4/7/15 | | UTM | Static | NA | |
| | | 5/2/15 | | UTM | Static | NA | |
| | | 6/1/15 | | UTM | Static | NA | |
| | | 7/8/15 | | UTM | Static | NA | |
| | | 8/17/15 | | UTM | Static | NA | |
| | | 11/6/15 | | UTM | Static | NA | |
| MH-26B | 3070.50 | 11/13/06 | | 493.00 | | 2577.50 | Sierrita EDMS |
| | | 1/15/07 | | 492.85 | | 2577.65 | |
| | | 4/4/07 | | 490.78 | | 2579.72 | |
| | | 7/19/07 | | 492.01 | | 2578.49 | |
| | | 10/2/07 | | 493.18 | | 2577.32 | |
| | | 1/2/08 | | 493.76 | | 2576.74 | |
| | | 4/25/08 | | 492.98 | | 2577.52 | |
| | | 7/2/08 | | 494.10 | | 2576.40 | |
| | | 10/20/08 | | 495.31 | | 2575.19 | |
| | | 1/5/09 | | 495.88 | | 2574.62 | |
| | | 4/21/09 | | 494.90 | | 2575.60 | |
| | | 4/13/10 | | 496.77 | | 2573.73 | |
| | | 5/5/11 | | 497.73 | | 2572.77 | |
| | | 5/1/12 | | 498.00 | | 2572.50 | |
| | | 4/4/13 | | 499.03 | | 2571.47 | |
| | | 3/12/14 | | 510.69 | | 2559.81 | |
| | | 4/15/14 | | 510.67 | | 2559.83 | |
| | | 5/13/14 | | 510.68 | | 2559.82 | |
| | | 6/9/14 | | 517.75 | | 2552.75 | |
| | | 7/28/14 | | 522.14 | | 2548.36 | |
| | | 8/7/14 | | 523.46 | | 2547.04 | |
| | | 9/8/14 | | 524.35 | Static | 2546.15 | |
| | | 10/28/14 | | 527.68 | | 2542.82 | |
| | | 11/26/14 | | 529.90 | | 2540.60 | |
| | | 12/16/14 | | 531.11 | Static | 2539.39 | |
| | | 1/29/15 | | 531.79 | Static | 2538.71 | |
| | | 2/27/15 | | 532.68 | Static | 2537.82 | |
| | | 3/18/15 | | 533.34 | Static | 2537.16 | |
| | | 4/7/15 | | 534.12 | Static | 2536.38 | |
| | | 5/21/15 | | 535.90 | Static | 2534.60 | |
| | | 6/1/15 | | 535.79 | Static | 2534.71 | |
| | | 7/8/15 | | 537.52 | Static | 2532.98 | |
| | | 8/17/15 | | UTM | Static | NA | |
| | | 11/6/15 | | UTM | Static | NA | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-26C | 3069.11 | 11/13/06 | | 494.45 | | 2574.66 | Sierrita EDMS |
| | | 1/15/07 | | 494.10 | | 2575.01 | |
| | | 4/4/07 | | 492.30 | | 2576.81 | |
| | | 7/19/07 | | 493.62 | | 2575.49 | |
| | | 10/2/07 | | 496.58 | | 2572.53 | |
| | | 1/2/08 | | 495.35 | | 2573.76 | |
| | | 4/25/08 | | 494.37 | | 2574.74 | |
| | | 7/2/08 | | 495.55 | | 2573.56 | |
| | | 10/20/08 | | 496.78 | | 2572.33 | |
| | | 1/5/09 | | 497.21 | | 2571.90 | |
| | | 4/21/09 | | 493.95 | | 2575.16 | |
| | | 4/13/10 | | 498.14 | | 2570.97 | |
| | | 4/27/11 | | 499.14 | | 2569.97 | |
| | | 5/1/12 | | 499.44 | | 2569.67 | |
| | | 4/4/13 | | 500.61 | | 2568.50 | |
| | | 3/12/14 | | 512.31 | | 2556.80 | |
| | | 4/15/14 | | 512.27 | | 2556.84 | |
| | | 5/13/14 | | 512.30 | | 2556.81 | |
| | | 6/9/14 | | 519.21 | | 2549.90 | |
| | | 7/28/14 | | 523.77 | | 2545.34 | |
| | | 8/7/14 | | 525.34 | | 2543.77 | |
| | | 9/8/14 | | 526.04 | Static | 2543.07 | |
| | | 10/28/14 | | 529.30 | | 2539.81 | |
| | | 11/26/14 | | 532.02 | | 2537.09 | |
| | | 12/16/14 | | 535.02 | Static | 2534.09 | |
| | | 1/29/15 | | 536.86 | Static | 2532.25 | |
| | | 2/27/15 | | 534.31 | Static | 2534.80 | |
| | | 3/18/15 | | 535.01 | Static | 2534.10 | |
| | | 4/7/15 | | 535.70 | Static | 2533.41 | |
| | | 5/21/15 | | 537.57 | Static | 2531.54 | |
| | | 6/1/15 | | 539.22 | Static | 2529.89 | |
| | | 7/8/15 | | 541.12 | Static | 2527.99 | |
| | | 8/17/15 | | 541.14 | Static | 2527.97 | |
| | | 11/6/15 | | 541.29 | Static | 2527.82 | |
| MH-28 | 3142.18 | 11/14/06 | | 401.10 | | 2741.08 | Sierrita EDMS |
| | | 2/19/07 | | 401.10 | | 2741.08 | |
| | | 4/17/07 | | 402.32 | | 2739.86 | |
| | | 7/16/07 | | 403.18 | | 2739.00 | |
| | | 10/11/07 | | 403.00 | | 2739.18 | |
| | | 1/21/08 | | 402.72 | | 2739.46 | |
| | | 4/8/08 | | 401.90 | | 2740.28 | |
| | | 7/1/08 | | 401.48 | | 2740.70 | |
| | | 10/6/08 | | 402.17 | | 2740.01 | |
| | | 1/7/09 | | 402 | | 2740.18 | |
| | | 4/7/09 | | 401.06 | | 2741.12 | |
| | | 10/13/09 | | 401.10 | | 2741.08 | |
| | | 4/15/10 | | 395.65 | | 2746.53 | |
| | | 8/12/10 | | 398.60 | | 2743.58 | |
| | | 10/12/10 | | 399.00 | | 2743.18 | |
| | | 5/17/11 | | 396.89 | | 2745.29 | |
| | | 10/4/11 | | 397.90 | | 2744.28 | |
| | | 5/21/12 | | 398.64 | | 2743.54 | |
| | | 10/9/12 | | 403.77 | | 2738.41 | |
| | | 4/2/13 | | 405.08 | | 2737.10 | |
| | | 10/21/13 | | 407.88 | | 2734.30 | |
| | | 1/3/14 | | 408.01 | | 2734.17 | |
| | | 3/12/14 | | 411.69 | | 2730.49 | |
| | | 4/9/14 | | 412.72 | | 2729.46 | |
| | | 5/14/14 | | 412.74 | | 2729.44 | |
| | | 6/24/14 | | 412.76 | | 2729.42 | |
| | | 7/7/14 | | 414.90 | | 2727.28 | |
| | | 8/8/14 | | 414.60 | | 2727.58 | |
| | | 9/9/14 | | 414.19 | Static | 2727.99 | |
| | | 10/28/14 | | 415.32 | | 2726.86 | |
| | | 11/4/14 | | 415.92 | | 2726.26 | |
| | | 12/20/14 | | 416.46 | Static | 2725.72 | |
| | | 1/7/15 | | 416.16 | Static | 2726.02 | |
| | | 2/27/15 | | 416.10 | Static | 2726.08 | |
| | | 3/26/15 | | 414.87 | Static | 2727.31 | |
| | | 4/21/15 | | 414.83 | Static | 2727.35 | |
| | | 5/21/15 | | 414.80 | Static | 2727.38 | |
| | | 6/3/15 | | 414.86 | Static | 2727.32 | |
| | | 7/6/15 | | 416.53 | Static | 2725.65 | |
| | | 7/20/15 | | 416.85 | Static | 2725.33 | |
| | | 8/25/15 | | 417.35 | Static | 2724.83 | |
| | | 10/8/15 | | 417.68 | Static | 2724.50 | |
| | | 11/2/15 | | 417.63 | Static | 2724.55 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MH-29 | 3123.15 | 11/14/06 | | 378.05 | | 2745.10 | Sierrita EDMS |
| | | 2/19/07 | | 376.58 | | 2746.57 | |
| | | 4/17/07 | | 376.75 | | 2746.40 | |
| | | 7/16/07 | | 379.07 | | 2744.08 | |
| | | 10/11/07 | | 381.92 | | 2741.23 | |
| | | 1/18/08 | | 380.41 | | 2742.74 | |
| | | 4/8/08 | | 380.16 | | 2742.99 | |
| | | 7/1/08 | | 380.50 | | 2742.65 | |
| | | 10/7/08 | | 381.52 | | 2741.63 | |
| | | 1/9/09 | | 380.25 | | 2742.90 | |
| | | 4/7/09 | | 379.90 | | 2743.25 | |
| | | 10/13/09 | | 380.52 | | 2742.63 | |
| | | 4/15/10 | | 379.59 | | 2743.56 | |
| | | 8/12/10 | | 378.65 | | 2744.50 | |
| | | 10/12/10 | | 379.31 | | 2743.84 | |
| | | 4/20/11 | | 377.75 | | 2745.40 | |
| | | 5/23/11 | | 377.80 | | 2745.35 | |
| | | 10/4/11 | | 380.25 | | 2742.90 | |
| | | 5/21/12 | | 389.39 | | 2733.76 | |
| | | 10/9/12 | | 365.70 | | 2757.45 | |
| | | 4/2/13 | | 392.00 | | 2731.15 | |
| | | 11/8/13 | | 393.39 | | 2729.76 | |
| | | 12/11/13 | | 394.82 | | 2728.33 | |
| | | 1/3/14 | | 394.63 | | 2728.52 | |
| | | 3/12/14 | | 394.25 | | 2728.90 | |
| | | 4/9/14 | | 393.95 | | 2729.20 | |
| | | 5/14/14 | | 393.92 | | 2729.23 | |
| | | 6/24/14 | | 393.94 | | 2729.21 | |
| | | 7/7/14 | | 392.13 | | 2731.02 | |
| | | 8/8/14 | | 392.28 | | 2730.87 | |
| | | 9/9/14 | | 392.59 | Static | 2730.56 | |
| | | 10/28/14 | | 400.46 | | 2722.69 | |
| | | 11/4/14 | | 400.90 | | 2722.25 | |
| | | 12/21/14 | | 401.30 | Static | 2721.85 | |
| | | 1/7/15 | | 402.56 | Static | 2720.59 | |
| | | 2/27/15 | | 402.89 | Static | 2720.26 | |
| | | 3/26/15 | | 402.18 | Static | 2720.97 | |
| | | 4/21/15 | | 402.40 | Static | 2720.75 | |
| | | 5/21/15 | | 402.49 | Static | 2720.66 | |
| | | 6/3/15 | | 402.52 | Static | 2720.63 | |
| | | 7/6/15 | | 404.41 | Static | 2718.74 | |
| | | 8/25/15 | | 404.64 | Static | 2718.51 | |
| | | 10/8/15 | | 404.75 | Static | 2718.40 | |
| | | 11/2/15 | | 404.71 | Static | 2718.44 | |
| MH-30 | 3232.45 | 11/10/06 | | 422.78 | | 2809.67 | Sierrita EDMS |
| | | 1/9/07 | | 421.65 | | 2810.80 | |
| | | 4/9/07 | | 419.32 | | 2813.13 | |
| | | 7/11/07 | | 416.85 | | 2815.60 | |
| | | 10/2/07 | | 416.95 | | 2815.50 | |
| | | 1/18/08 | | 417.34 | | 2815.11 | |
| | | 4/8/08 | | 418.12 | | 2814.33 | |
| | | 7/1/08 | | 417.71 | | 2814.74 | |
| | | 10/6/08 | | 417.11 | | 2815.34 | |
| | | 1/7/09 | | 416.37 | | 2816.08 | |
| | | 4/7/09 | | 415.10 | | 2817.35 | |
| | | 4/15/10 | | 412.03 | | 2820.42 | |
| | | 5/17/11 | | 412.18 | | 2820.27 | |
| | | 4/26/12 | | 420.61 | | 2811.84 | |
| | | 6/6/13 | | 427.36 | | 2805.09 | |
| | | 3/12/14 | | 429.01 | | 2803.44 | |
| | | 4/8/14 | | 429.46 | | 2802.99 | |
| | | 5/14/14 | | 429.47 | | 2802.98 | |
| | | 6/24/14 | | 429.48 | | 2802.97 | |
| | | 7/29/14 | | 430.12 | | 2802.33 | |
| | | 8/8/14 | | 430.23 | | 2802.22 | |
| | | 9/9/14 | | 430.41 | Static | 2802.04 | |
| | | 10/28/14 | | 451.78 | | 2780.67 | |
| | | 11/26/14 | | 430.82 | | 2801.63 | |
| | | 12/20/14 | | 436.19 | Static | 2796.26 | |
| | | 1/29/15 | | 440.11 | Static | 2792.34 | |
| | | 2/27/15 | | 442.88 | Static | 2789.57 | |
| | | 3/26/15 | | 431.34 | Static | 2801.11 | |
| | | 4/21/15 | | 431.27 | Static | 2801.18 | |
| | | 5/21/15 | | 431.31 | Static | 2801.14 | |
| | | 6/2/15 | | 431.28 | Static | 2801.17 | |
| | | 7/23/15 | | 431.55 | Static | 2800.90 | |
| | | 8/25/15 | | 431.70 | Static | 2800.75 | |
| | | 11/2/15 | | 431.92 | Static | 2800.53 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2007-1A | 2967.65 | 7/30/07 | | 425.87 | | 2541.78 | Sierrita EDMS |
| | | 10/9/07 | | 428.32 | | 2539.33 | |
| | | 1/24/08 | | 426.32 | | 2541.33 | |
| | | 4/9/08 | | 424.72 | | 2542.93 | |
| | | 7/14/08 | | 428.42 | | 2539.23 | |
| | | 10/17/08 | | 431.02 | | 2536.63 | |
| | | 1/16/09 | | 428.90 | | 2538.75 | |
| | | 4/1/09 | | 426.86 | | 2540.79 | |
| | | 7/1/09 | | 426.90 | | 2540.75 | |
| | | 10/22/09 | | 434.05 | | 2533.60 | |
| | | 4/16/10 | | 428.89 | | 2538.76 | |
| | | 10/13/10 | | 434.09 | | 2533.56 | |
| | | 5/5/11 | | 429.31 | | 2538.34 | |
| | | 10/6/11 | | 433.60 | | 2534.05 | |
| | | 6/12/12 | | 431.38 | | 2536.27 | |
| | | 10/24/12 | | 435.12 | | 2532.53 | |
| | | 4/8/13 | | 429.69 | | 2537.96 | |
| | | 10/23/13 | | 435.06 | | 2532.59 | |
| | | 3/12/14 | | 435.92 | | 2531.73 | |
| | | 4/29/14 | | 437.74 | | 2529.91 | |
| | | 5/8/14 | | 437.72 | | 2529.93 | |
| | | 6/9/14 | | 440.59 | | 2527.06 | |
| | | 7/28/14 | | 443.83 | | 2523.82 | |
| | | 8/7/14 | | 444.58 | | 2523.07 | |
| | | 9/8/14 | | 445.78 | Static | 2521.87 | |
| | | 10/28/14 | | 448.18 | | 2519.47 | |
| | | 11/12/14 | | 448.42 | | 2519.23 | |
| | | 12/16/14 | | 448.63 | Static | 2519.02 | |
| | | 1/29/15 | | 448.74 | Static | 2518.91 | |
| | | 2/27/15 | | 448.80 | Static | 2518.85 | |
| | | 3/12/15 | | 448.48 | Static | 2519.17 | |
| | | 4/22/15 | | 449.85 | Static | 2517.80 | |
| | | 5/21/15 | | 450.06 | Static | 2517.59 | |
| | | 6/1/15 | | 450.21 | Static | 2517.44 | |
| | | 7/23/15 | | 454.05 | Static | 2513.60 | |
| | | 8/25/15 | | 455.41 | Static | 2512.24 | |
| | | 10/20/15 | | 456.84 | Static | 2510.81 | |
| | | 11/6/15 | | 456.90 | Static | 2510.75 | |
| MO-2007-1B | 2966.82 | 7/30/07 | | 425.67 | | 2541.15 | Sierrita EDMS |
| | | 10/9/07 | | 429.20 | | 2537.62 | |
| | | 1/24/08 | | 426.41 | | 2540.41 | |
| | | 4/9/08 | | 425.05 | | 2541.77 | |
| | | 7/14/08 | | 428.98 | | 2537.84 | |
| | | 10/17/08 | | 431.64 | | 2535.18 | |
| | | 1/16/09 | | 429.05 | | 2537.77 | |
| | | 4/1/09 | | 427.23 | | 2539.59 | |
| | | 7/1/09 | | 427.70 | | 2539.12 | |
| | | 10/22/09 | | 434.90 | | 2531.92 | |
| | | 4/16/10 | | 429.13 | | 2537.69 | |
| | | 10/13/10 | | 434.47 | | 2532.35 | |
| | | 5/5/11 | | 429.65 | | 2537.17 | |
| | | 10/6/11 | | 434.10 | | 2532.72 | |
| | | 6/12/12 | | 431.95 | | 2534.87 | |
| | | 10/24/12 | | 435.62 | | 2531.20 | |
| | | 4/8/13 | | 429.03 | | 2537.79 | |
| | | 10/23/13 | | 435.71 | | 2531.11 | |
| | | 3/12/14 | | 436.56 | | 2530.26 | |
| | | 4/29/14 | | 438.64 | | 2528.18 | |
| | | 5/8/14 | | 438.67 | | 2528.15 | |
| | | 6/9/14 | | 441.65 | | 2525.17 | |
| | | 7/28/14 | | 444.85 | | 2521.97 | |
| | | 8/7/14 | | 445.81 | | 2521.01 | |
| | | 9/8/14 | | 446.61 | Static | 2520.21 | |
| | | 10/28/14 | | 448.92 | | 2517.90 | |
| | | 11/12/14 | | 449.05 | | 2517.77 | |
| | | 12/16/14 | | 449.19 | Static | 2517.63 | |
| | | 1/29/15 | | 449.18 | Static | 2517.64 | |
| | | 2/27/15 | | 449.19 | Static | 2517.63 | |
| | | 3/12/15 | | 448.97 | Static | 2517.85 | |
| | | 4/22/15 | | 450.52 | Static | 2516.30 | |
| | | 5/21/15 | | 451.10 | Static | 2515.72 | |
| | | 6/1/15 | | 451.56 | Static | 2515.26 | |
| | | 7/23/15 | | 454.96 | Static | 2511.86 | |
| | | 8/25/15 | | 456.16 | Static | 2510.66 | |
| | | 10/20/15 | | 457.46 | Static | 2509.36 | |
| | | 11/6/15 | | 457.51 | Static | 2509.31 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2007-1C | 2968.58 | 7/30/07 | | 423.87 | | 2544.71 | Sierrita EDMS |
| | | 10/9/07 | | 427.02 | | 2541.56 | |
| | | 1/24/08 | | 424.00 | | 2544.58 | |
| | | 4/9/08 | | 423.30 | | 2545.28 | |
| | | 7/14/08 | | 426.73 | | 2541.85 | |
| | | 10/21/08 | | 429.49 | | 2539.09 | |
| | | 1/16/09 | | 426.75 | | 2541.83 | |
| | | 4/1/09 | | 424.90 | | 2543.68 | |
| | | 7/1/09 | | 428.81 | | 2539.77 | |
| | | 10/22/09 | | 427.60 | | 2540.98 | |
| | | 4/16/10 | | 426.93 | | 2541.65 | |
| | | 10/13/10 | | 431.88 | | 2536.70 | |
| | | 4/20/11 | | 427.32 | | 2541.26 | |
| | | 10/6/11 | | 431.80 | | 2536.78 | |
| | | 6/12/12 | | 429.40 | | 2539.18 | |
| | | 10/24/12 | | 433.08 | | 2535.50 | |
| | | 4/8/13 | | 426.50 | | 2542.08 | |
| | | 10/23/13 | | 433.06 | | 2535.52 | |
| | | 3/12/14 | | 434.69 | | 2533.89 | |
| | | 4/29/14 | | 437.08 | | 2531.50 | |
| | | 5/8/14 | | 436.98 | | 2531.60 | |
| | | 6/9/14 | | 440.40 | | 2528.18 | |
| | | 7/28/14 | | 443.49 | | 2525.09 | |
| | | 8/7/14 | | 444.30 | | 2524.28 | |
| | | 9/8/14 | | 445.02 | Static | 2523.56 | |
| | | 10/28/14 | | 447.53 | | 2521.05 | |
| | | 11/12/14 | | 447.62 | | 2520.96 | |
| | | 12/16/14 | | 447.70 | Static | 2520.88 | |
| | | 1/29/15 | | 447.80 | Static | 2520.78 | |
| | | 2/27/15 | | 447.84 | Static | 2520.74 | |
| | | 3/12/15 | | 447.72 | Static | 2520.86 | |
| | | 4/22/15 | | 449.56 | Static | 2519.02 | |
| | | 5/21/15 | | 450.74 | Static | 2517.84 | |
| | | 6/1/15 | | 451.18 | Static | 2517.40 | |
| | | 7/23/15 | | 454.01 | Static | 2514.57 | |
| | | 8/25/15 | | 455.18 | Static | 2513.40 | |
| | | 10/20/15 | | 456.30 | Static | 2512.28 | |
| | | 11/6/15 | | 456.67 | Static | 2511.91 | |
| MO-2007-2 | 3153.83 | 8/9/07 | | 575.30 | | 2578.53 | Sierrita EDMS |
| | | 10/9/07 | | 576.60 | | 2577.23 | |
| | | 1/22/08 | | 577.22 | | 2576.61 | |
| | | 4/17/08 | | 576.65 | | 2577.18 | |
| | | 7/14/08 | | 577.35 | | 2576.48 | |
| | | 10/17/08 | | 578.54 | | 2575.29 | |
| | | 1/15/09 | | 579.10 | | 2574.73 | |
| | | 4/1/09 | | 578.38 | | 2575.45 | |
| | | 4/13/10 | | 580.50 | | 2573.33 | |
| | | 4/27/11 | | 581.41 | | 2572.42 | |
| | | 5/2/12 | | 581.75 | | 2572.08 | |
| | | 4/8/13 | | 582.45 | | 2571.38 | |
| | | 3/12/14 | | 592.12 | | 2561.71 | |
| | | 4/9/14 | | 591.93 | | 2561.90 | |
| | | 5/8/14 | | 590.86 | | 2562.97 | |
| | | 6/9/14 | | 600.45 | | 2553.38 | |
| | | 7/28/14 | | 604.52 | | 2549.31 | |
| | | 8/7/14 | | 605.29 | | 2548.54 | |
| | | 9/8/14 | | 607.39 | Static | 2546.44 | |
| | | 10/28/14 | | 610.63 | | 2543.20 | |
| | | 11/26/14 | | 612.53 | | 2541.30 | |
| | | 12/16/14 | | 613.88 | Static | 2539.95 | |
| | | 1/29/15 | | 615.76 | Static | 2538.07 | |
| | | 2/17/15 | | 616.21 | Static | 2537.62 | |
| | | 3/12/15 | | 617.30 | Static | 2536.53 | |
| | | 4/7/15 | | 618.25 | Static | 2535.58 | |
| | | 5/21/15 | | 619.83 | Static | 2534.00 | |
| | | 6/1/15 | | 620.29 | Static | 2533.54 | |
| | | 7/22/15 | | 621.75 | Static | 2532.08 | |
| | | 8/14/15 | | 622.49 | Static | 2531.34 | |
| | | 11/18/15 | | 625.66 | Static | 2528.17 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2007-3B[2] | 2912.15 | 9/10/07 | | 359.38 | | 2552.77 | Sierrita EDMS |
| | | 10/9/07 | | 359.55 | | 2552.60 | |
| | | 1/21/08 | | 357.13 | | 2555.02 | |
| | | 4/16/08 | | 357.10 | | 2555.05 | |
| | | 7/14/08 | | 358.71 | | 2553.44 | |
| | | 10/22/08 | | 361.77 | | 2550.38 | |
| | | 1/19/09 | | 358.95 | | 2553.20 | |
| | | 4/1/09 | | 357.70 | | 2554.45 | |
| | | 7/27/09 | | 361.21 | | 2550.94 | |
| | | 10/22/09 | | 365.50 | | 2546.65 | |
| | | 3/11/10 | | 359.36 | | 2552.79 | |
| | | 4/14/10 | | 360.30 | | 2551.85 | |
| | | 7/21/10 | | 362.20 | | 2549.95 | |
| | | 10/26/10 | | 364.82 | | 2547.33 | |
| | | 1/18/11 | | 361.99 | | 2550.16 | |
| | | 5/4/11 | | 361.59 | | 2550.56 | |
| | | 7/6/11 | | 363.80 | | 2548.35 | |
| | | 11/22/11 | | 365.10 | | 2547.05 | |
| | | 1/11/12 | | 363.36 | | 2548.79 | |
| | | 5/8/12 | | 362.09 | | 2550.06 | |
| | | 8/7/12 | | 363.87 | | 2548.28 | |
| | | 1/8/13 | | 362.33 | | 2549.82 | |
| | | 4/9/13 | | 360.13 | | 2552.02 | |
| | | 5/21/13 | | 359.84 | | 2552.31 | |
| | | 8/27/13 | | 365.16 | | 2546.99 | |
| | | 10/24/13 | | 366.19 | | 2545.96 | |
| | | 1/7/14 | | 364.11 | | 2548.04 | |
| | | 3/12/14 | | 368.18 | | 2543.97 | |
| | | 4/16/14 | | 369.34 | | 2542.81 | |
| | | 5/14/14 | | 369.35 | | 2542.80 | |
| | | 6/23/14 | | 369.35 | | 2542.80 | |
| | | 7/1/14 | | 375.64 | | 2536.51 | |
| | | 7/8/14 | | 375.64 | | 2536.51 | |
| | | 8/8/14 | | 377.48 | | 2534.67 | |
| | | 9/9/14 | | 378.82 | Static | 2533.33 | |
| | | 10/29/14 | | 379.96 | | 2532.19 | |
| | | 11/13/14 | | 381.17 | | 2530.98 | |
| | | 12/17/14 | | 382.07 | Static | 2530.08 | |
| | | 1/21/15 | | 382.22 | Static | 2529.93 | |
| | | 2/27/15 | | 382.40 | Static | 2529.75 | |
| | | 3/26/15 | | 382.99 | Static | 2529.16 | |
| | | 4/27/15 | | 384.26 | Static | 2527.89 | |
| | | 5/21/15 | | 385.07 | Static | 2527.08 | |
| | | 6/2/15 | | 385.86 | Static | 2526.29 | |
| | | 7/7/15 | | 388.29 | Static | 2523.86 | |
| | | 8/14/15 | | 390.46 | Static | 2521.69 | |
| | | 10/21/15 | | 390.68 | Static | 2521.47 | |
| | | 11/2/15 | | 390.72 | Static | 2521.43 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2007-3C | 2911.90 | 7/5/07 | | 356.30 | | 2555.60 | Sierrita EDMS |
| | | 10/10/07 | | 359.85 | | 2552.05 | |
| | | 1/21/08 | | 356.74 | | 2555.16 | |
| | | 4/15/08 | | 357.18 | | 2554.72 | |
| | | 7/14/08 | | 359.84 | | 2552.06 | |
| | | 10/21/08 | | 361.99 | | 2549.91 | |
| | | 1/19/09 | | 359.61 | | 2552.29 | |
| | | 4/1/09 | | 358 | | 2553.90 | |
| | | 7/22/09 | | 362 | | 2549.90 | |
| | | 10/22/09 | | 362.80 | | 2549.10 | |
| | | 3/11/10 | | 359.62 | | 2552.28 | |
| | | 4/14/10 | | 360.45 | | 2551.45 | |
| | | 7/21/10 | | 367.50 | | 2544.40 | |
| | | 10/26/10 | | 365.13 | | 2546.77 | |
| | | 1/18/11 | | 361.62 | | 2550.28 | |
| | | 5/4/11 | | 361.61 | | 2550.29 | |
| | | 7/6/11 | | 363.75 | | 2548.15 | |
| | | 10/5/11 | | 365.50 | | 2546.40 | |
| | | 1/11/12 | | 363.36 | | 2548.54 | |
| | | 5/7/12 | | 362.35 | | 2549.55 | |
| | | 8/7/12 | | 364.49 | | 2547.41 | |
| | | 10/10/12 | | 366.50 | | 2545.40 | |
| | | 1/8/13 | | 362.59 | | 2549.31 | |
| | | 4/9/13 | | 360.45 | | 2551.45 | |
| | | 8/27/13 | | 365.47 | | 2546.43 | |
| | | 10/24/13 | | 366.79 | | 2545.11 | |
| | | 1/7/14 | | 364.19 | | 2547.71 | |
| | | 3/12/14 | | 368.09 | | 2543.81 | |
| | | 4/16/14 | | 369.60 | | 2542.30 | |
| | | 5/14/14 | | 369.63 | | 2542.27 | |
| | | 6/23/14 | | 369.65 | | 2542.25 | |
| | | 7/1/14 | | 376.55 | | 2535.35 | |
| | | 7/9/14 | | 376.55 | | 2535.35 | |
| | | 8/8/14 | | 377.79 | | 2534.11 | |
| | | 9/9/14 | | 379.28 | Static | 2532.62 | |
| | | 10/29/14 | | 380.51 | | 2531.39 | |
| | | 11/13/14 | | 381.92 | | 2529.98 | |
| | | 12/17/14 | | 383.22 | Static | 2528.68 | |
| | | 1/21/15 | | 381.99 | Static | 2529.91 | |
| | | 2/27/15 | | 382.14 | Static | 2529.76 | |
| | | 3/26/15 | | 383.42 | Static | 2528.48 | |
| | | 4/27/15 | | 384.85 | Static | 2527.05 | |
| | | 5/21/15 | | 385.50 | Static | 2526.40 | |
| | | 6/2/15 | | 386.10 | Static | 2525.80 | |
| | | 7/7/15 | | 389.01 | Static | 2522.89 | |
| | | 8/14/15 | | 391.60 | Static | 2520.30 | |
| | | 10/21/15 | | 391.47 | Static | 2520.43 | |
| | | 11/2/15 | | 391.43 | Static | 2520.47 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2007-4A | 2923.63 | 10/9/07 | | 307.67 | | 2615.96 | Sierrita EDMS |
| | | 1/22/08 | | 303.85 | | 2619.78 | |
| | | 4/16/08 | | 305.46 | | 2618.17 | |
| | | 7/17/08 | | 308.05 | | 2615.58 | |
| | | 10/22/08 | | 309.65 | | 2613.98 | |
| | | 1/19/09 | | 306.28 | | 2617.35 | |
| | | 4/2/09 | | 306.69 | | 2616.94 | |
| | | 7/1/09 | | 307.92 | | 2615.71 | |
| | | 10/26/09 | | 309.10 | | 2614.53 | |
| | | 1/26/10 | | 308.52 | | 2615.11 | |
| | | 4/14/10 | | 308.53 | | 2615.10 | |
| | | 7/21/10 | | 311.05 | | 2612.58 | |
| | | 10/13/10 | | 312.00 | | 2611.63 | |
| | | 1/19/11 | | 308.82 | | 2614.81 | |
| | | 5/4/11 | | 309.68 | | 2613.95 | |
| | | 7/6/11 | | 311.75 | | 2611.88 | |
| | | 10/5/11 | | 312.50 | | 2611.13 | |
| | | 1/17/12 | | 310.05 | | 2613.58 | |
| | | 5/7/12 | | 310.42 | | 2613.21 | |
| | | 8/13/12 | | 313.30 | | 2610.33 | |
| | | 10/23/12 | | 314.17 | | 2609.46 | |
| | | 2/21/13 | | 311.70 | | 2611.93 | |
| | | 4/10/13 | | 312.68 | | 2610.95 | |
| | | 7/10/13 | | 316.31 | | 2607.32 | |
| | | 10/22/13 | | 318.07 | | 2605.56 | |
| | | 1/10/14 | | 316.34 | | 2607.29 | |
| | | 3/12/14 | | 319.78 | | 2603.85 | |
| | | 4/8/14 | | 321.40 | | 2602.23 | |
| | | 5/6/14 | | 321.36 | | 2602.27 | |
| | | 6/23/14 | | 321.33 | | 2602.30 | |
| | | 7/8/14 | | 329.06 | | 2594.57 | |
| | | 8/8/14 | | 331.16 | | 2592.47 | |
| | | 9/9/14 | | 332.77 | Static | 2590.86 | |
| | | 10/29/14 | | 334.28 | | 2589.35 | |
| | | 11/12/14 | | 335.68 | | 2587.95 | |
| | | 12/17/14 | | 336.93 | Static | 2586.70 | |
| | | 1/14/15 | | 337.62 | Static | 2586.01 | |
| | | 2/27/15 | | 337.92 | Static | 2585.71 | |
| | | 3/26/15 | | 339.75 | Static | 2583.88 | |
| | | 4/15/15 | | 340.81 | Static | 2582.82 | |
| | | 5/21/15 | | 340.96 | Static | 2582.67 | |
| | | 6/2/15 | | 341.09 | Static | 2582.54 | |
| | | 7/8/15 | | 345.02 | Static | 2578.61 | |
| | | 8/14/15 | | 348.22 | Static | 2575.41 | |
| | | 10/22/15 | | 349.01 | Static | 2574.62 | |
| | | 11/2/15 | | 349.11 | Static | 2574.52 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2007-4B | 2923.57 | 10/11/07 | | 308.72 | | 2614.85 | Sierrita EDMS |
| | | 1/7/08 | | 304.22 | | 2619.35 | |
| | | 4/16/08 | | 306.48 | | 2617.09 | |
| | | 7/18/08 | | 308.95 | | 2614.62 | |
| | | 10/22/08 | | 310.77 | | 2612.80 | |
| | | 1/21/09 | | 306 | | 2617.57 | |
| | | 4/2/09 | | 306.72 | | 2616.85 | |
| | | 7/1/09 | | 309.1 | | 2614.47 | |
| | | 10/26/09 | | 313.00 | | 2610.57 | |
| | | 1/26/10 | | 308.29 | | 2615.28 | |
| | | 4/14/10 | | 308.79 | | 2614.78 | |
| | | 7/21/10 | | 311.22 | | 2612.35 | |
| | | 10/13/10 | | 312.39 | | 2611.18 | |
| | | 1/19/11 | | 308.84 | | 2614.73 | |
| | | 5/4/11 | | 310.40 | | 2613.17 | |
| | | 7/6/11 | | 312.85 | | 2610.72 | |
| | | 10/5/11 | | 313.50 | | 2610.07 | |
| | | 1/17/12 | | 309.81 | | 2613.76 | |
| | | 5/7/12 | | 311.47 | | 2612.10 | |
| | | 8/13/12 | | 314.42 | | 2609.15 | |
| | | 10/23/12 | | 315.28 | | 2608.29 | |
| | | 2/21/13 | | 311.79 | | 2611.78 | |
| | | 4/10/13 | | 313.17 | | 2610.40 | |
| | | 7/10/13 | | 317.96 | | 2605.61 | |
| | | 10/22/13 | | 319.56 | | 2604.01 | |
| | | 1/10/14 | | 316.92 | | 2606.65 | |
| | | 3/12/14 | | 322.35 | | 2601.22 | |
| | | 4/8/14 | | 324.09 | | 2599.48 | |
| | | 5/6/14 | | 324.03 | | 2599.54 | |
| | | 6/23/14 | | 324.00 | | 2599.57 | |
| | | 7/8/14 | | 333.65 | | 2589.92 | |
| | | 8/8/14 | | 335.20 | | 2588.37 | |
| | | 9/9/14 | | 336.99 | Static | 2586.58 | |
| | | 10/29/14 | | 338.56 | | 2585.01 | |
| | | 11/12/14 | | 339.10 | | 2584.47 | |
| | | 12/17/14 | | 339.66 | Static | 2583.91 | |
| | | 1/14/15 | | 340.55 | Static | 2583.02 | |
| | | 2/27/15 | | 340.70 | Static | 2582.87 | |
| | | 3/26/15 | | 343.16 | Static | 2580.41 | |
| | | 4/15/15 | | 345.50 | Static | 2578.07 | |
| | | 5/21/15 | | 346.89 | Static | 2576.68 | |
| | | 6/2/15 | | 348.27 | Static | 2575.30 | |
| | | 7/8/15 | | 348.40 | Static | 2575.17 | |
| | | 8/14/15 | | 348.79 | Static | 2574.78 | |
| | | 10/22/15 | | 351.65 | Static | 2571.92 | |
| | | 11/2/15 | | 351.79 | Static | 2571.78 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2007-4C | 2923.66 | 8/12/07 | | 307.13 | | 2616.53 | Sierrita EDMS |
| | | 10/12/07 | | 308.78 | | 2614.88 | |
| | | 1/22/08 | | 304.90 | | 2618.76 | |
| | | 4/16/08 | | 306.75 | | 2616.91 | |
| | | 7/18/08 | | 309.10 | | 2614.56 | |
| | | 10/22/08 | | 311.41 | | 2612.25 | |
| | | 1/21/09 | | 306.80 | | 2616.86 | |
| | | 4/2/09 | | 311.49 | | 2612.17 | |
| | | 7/1/09 | | 311.68 | | 2611.98 | |
| | | 10/26/09 | | 311.30 | | 2612.36 | |
| | | 1/26/10 | | 309.53 | | 2614.13 | |
| | | 4/14/10 | | 309.58 | | 2614.08 | |
| | | 7/21/10 | | 312.75 | | 2610.91 | |
| | | 10/13/10 | | 313.49 | | 2610.17 | |
| | | 1/19/11 | | 309.94 | | 2613.72 | |
| | | 5/4/11 | | 311.53 | | 2612.13 | |
| | | 7/6/11 | | 314.05 | | 2609.61 | |
| | | 10/5/11 | | 314.80 | | 2608.86 | |
| | | 1/12/12 | | 311.00 | | 2612.66 | |
| | | 5/7/12 | | 312.37 | | 2611.29 | |
| | | 8/13/12 | | 315.55 | | 2608.11 | |
| | | 10/23/12 | | 316.47 | | 2607.19 | |
| | | 2/21/13 | | 312.89 | | 2610.77 | |
| | | 4/10/13 | | 314.14 | | 2609.52 | |
| | | 7/10/13 | | 318.94 | | 2604.72 | |
| | | 10/22/13 | | 320.63 | | 2603.03 | |
| | | 1/10/14 | | 318.02 | | 2605.64 | |
| | | 3/12/14 | | 323.88 | | 2599.78 | |
| | | 4/8/14 | | 325.83 | | 2597.83 | |
| | | 5/6/14 | | 325.81 | | 2597.85 | |
| | | 6/23/14 | | 325.84 | | 2597.82 | |
| | | 7/8/14 | | 335.70 | | 2587.96 | |
| | | 8/8/14 | | 336.88 | | 2586.78 | |
| | | 9/9/14 | | 338.81 | Static | 2584.85 | |
| | | 10/29/14 | | 340.60 | | 2583.06 | |
| | | 11/12/14 | | 341.00 | | 2582.66 | |
| | | 12/17/14 | | 341.53 | Static | 2582.13 | |
| | | 1/14/15 | | 342.40 | Static | 2581.26 | |
| | | 2/27/15 | | 342.47 | Static | 2581.19 | |
| | | 3/26/15 | | 344.92 | Static | 2578.74 | |
| | | 4/15/15 | | 347.40 | Static | 2576.26 | |
| | | 5/21/15 | | 349.11 | Static | 2574.55 | |
| | | 6/2/15 | | 350.79 | Static | 2572.87 | |
| | | 7/8/15 | | 350.81 | Static | 2572.85 | |
| | | 8/14/15 | | 350.93 | Static | 2572.73 | |
| | | 10/22/15 | | 353.38 | Static | 2570.28 | |
| | | 11/2/15 | | 353.47 | Static | 2570.19 | |
| MO-2007-5B | 2944.35 | 10/12/07 | | 268.27 | | 2676.08 | Sierrita EDMS |
| | | 1/7/08 | | 262.09 | | 2682.26 | |
| | | 4/17/08 | | 266.22 | | 2678.13 | |
| | | 7/24/08 | | 268.61 | | 2675.74 | |
| | | 10/23/08 | | 272.16 | | 2672.19 | |
| | | 1/21/09 | | 265.83 | | 2678.52 | |
| | | 4/2/09 | | 269.20 | | 2675.15 | |
| | | 1/25/10 | | 268.30 | | 2676.05 | |
| | | 4/27/10 | | 268.02 | | 2676.33 | |
| | | 12/10/10 | | 272.31 | | 2672.04 | |
| | | 6/24/11 | | 275.70 | | 2668.65 | |
| | | 11/21/11 | | 273.28 | | 2671.07 | |
| | | 6/20/12 | | 277.46 | | 2666.89 | |
| | | 11/6/12 | | 280.33 | | 2664.02 | |
| | | 6/12/13 | | 288.32 | | 2656.03 | |
| | | 10/24/13 | | 287.84 | | 2656.51 | |
| | | 3/12/14 | | 287.24 | | 2657.11 | |
| | | 4/29/14 | | 294.80 | | 2649.55 | |
| | | 5/14/14 | | 294.78 | | 2649.57 | |
| | | 6/23/14 | | 294.76 | | 2649.59 | |
| | | 7/28/14 | | 299.29 | | 2645.06 | |
| | | 8/7/14 | | 301.38 | | 2642.97 | |
| | | 9/8/14 | | 302.31 | Static | 2642.04 | |
| | | 10/15/14 | | 300.14 | | 2644.21 | |
| | | 11/26/14 | | 300.87 | | 2643.48 | |
| | | 12/17/14 | | 301.43 | Static | 2642.92 | |
| | | 1/29/15 | | 301.89 | Static | 2642.46 | |
| | | 2/27/15 | | 302.08 | Static | 2642.27 | |
| | | 3/18/15 | | 303.65 | Static | 2640.70 | |
| | | 4/28/15 | | 307.69 | Static | 2636.66 | |
| | | 5/21/15 | | 309.80 | Static | 2634.55 | |
| | | 6/2/15 | | 311.87 | Static | 2632.48 | |
| | | 7/24/15 | | 311.80 | Static | 2632.55 | |
| | | 8/25/15 | | 312.19 | Static | 2632.16 | |
| | | 11/4/15 | | 312.41 | Static | 2631.94 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2007-5C | 2944.91 | 8/23/07 | | 294.04 | | 2650.87 | Sierrita EDMS |
| | | 10/13/07 | | 289.70 | | 2655.21 | |
| | | 1/7/08 | | 285.09 | | 2659.82 | |
| | | 4/17/08 | | 281.52 | | 2663.39 | |
| | | 7/24/08 | | 282.42 | | 2662.49 | |
| | | 10/23/08 | | 285.03 | | 2659.88 | |
| | | 1/22/09 | | 281.38 | | 2663.53 | |
| | | 5/13/09 | | 282.35 | | 2662.56 | |
| | | 10/27/09 | | 284.70 | | 2660.21 | |
| | | 4/27/10 | | 276.49 | | 2668.42 | |
| | | 12/10/10 | | 278.31 | | 2666.60 | |
| | | 5/24/11 | | 278.21 | | 2666.70 | |
| | | 11/21/11 | | 280.98 | | 2663.93 | |
| | | 6/18/12 | | 281.66 | | 2663.25 | |
| | | 11/6/12 | | 286.84 | | 2658.07 | |
| | | 6/13/13 | | 292.47 | | 2652.44 | |
| | | 11/12/13 | | 292.49 | | 2652.42 | |
| | | 3/12/14 | | 291.79 | | 2653.12 | |
| | | 5/6/14 | | 298.74 | | 2646.17 | |
| | | 6/23/14 | | 298.76 | | 2646.15 | |
| | | 7/28/14 | | 304.81 | | 2640.10 | |
| | | 8/7/14 | | 305.34 | | 2639.57 | |
| | | 9/8/14 | | 305.94 | Static | 2638.97 | |
| | | 10/15/14 | | 305.76 | | 2639.15 | |
| | | 11/26/14 | | 305.90 | | 2639.01 | |
| | | 12/17/14 | | 306.05 | Static | 2638.86 | |
| | | 1/29/15 | | 306.20 | Static | 2638.71 | |
| | | 2/27/15 | | 306.28 | Static | 2638.63 | |
| | | 3/18/15 | | 307.24 | Static | 2637.67 | |
| | | 4/28/15 | | 311.45 | Static | 2633.46 | |
| | | 5/21/15 | | 314.13 | Static | 2630.78 | |
| | | 6/2/15 | | 316.83 | Static | 2628.08 | |
| | | 7/24/15 | | 316.72 | Static | 2628.19 | |
| | | 8/25/15 | | 316.75 | Static | 2628.16 | |
| | | 11/4/15 | | 316.90 | Static | 2628.01 | |
| MO-2007-6A | 3043.37 | 10/2/07 | | 303.60 | | 2739.77 | Sierrita EDMS |
| | | 1/22/08 | | 303.27 | | 2740.10 | |
| | | 4/18/08 | | 304.02 | | 2739.35 | |
| | | 7/24/08 | | 305.81 | | 2737.56 | |
| | | 10/23/08 | | 307.85 | | 2735.52 | |
| | | 1/22/09 | | 305.87 | | 2737.50 | |
| | | 4/2/09 | | 304.87 | | 2738.50 | |
| | | 7/22/09 | | 307.15 | | 2736.22 | |
| | | 10/26/09 | | 307.00 | | 2736.37 | |
| | | 3/11/10 | | 306.15 | | 2737.22 | |
| | | 4/21/10 | | 306.44 | | 2736.93 | |
| | | 8/10/10 | | 309.12 | | 2734.25 | |
| | | 10/26/10 | | 308.95 | | 2734.42 | |
| | | 1/18/11 | | 307.78 | | 2735.59 | |
| | | 5/5/11 | | 308.13 | | 2735.24 | |
| | | 7/7/11 | | 309.90 | | 2733.47 | |
| | | 10/6/11 | | 311.10 | | 2732.27 | |
| | | 1/11/12 | | 311.24 | | 2732.13 | |
| | | 6/12/12 | | 314.95 | | 2728.42 | |
| | | 8/13/12 | | 317.93 | | 2725.44 | |
| | | 10/18/12 | | 316.94 | | 2726.43 | |
| | | 1/8/13 | | 321.98 | | 2721.39 | |
| | | 4/9/13 | | 323.05 | | 2720.32 | |
| | | 7/10/13 | | 326.23 | | 2717.14 | |
| | | 10/22/13 | | 329.74 | | 2713.63 | |
| | | 1/6/14 | | 329.94 | | 2713.43 | |
| | | 3/12/14 | | 329.85 | | 2713.52 | |
| | | 4/9/14 | | 330.14 | | 2713.23 | |
| | | 5/14/14 | | 330.12 | | 2713.25 | |
| | | 6/23/14 | | 330.08 | | 2713.29 | |
| | | 7/8/14 | | 331.19 | | 2712.18 | |
| | | 8/7/14 | | 331.41 | | 2711.96 | |
| | | 9/8/14 | | 331.78 | Static | 2711.59 | |
| | | 10/29/14 | | 331.92 | | 2711.45 | |
| | | 11/26/14 | | 332.08 | | 2711.29 | |
| | | 12/2/14 | | 331.73 | Static | 2711.64 | |
| | | 1/8/15 | | 332.23 | Static | 2711.14 | |
| | | 2/27/15 | | 332.26 | Static | 2711.11 | |
| | | 3/18/15 | | 331.64 | Static | 2711.73 | |
| | | 4/16/15 | | 332.31 | Static | 2711.06 | |
| | | 5/21/15 | | 332.86 | Static | 2710.51 | |
| | | 6/2/15 | | 333.38 | Static | 2709.99 | |
| | | 7/2/15 | | 335.11 | Static | 2708.26 | |
| | | 8/25/15 | | 335.91 | Static | 2707.46 | |
| | | 10/19/15 | | 336.37 | Static | 2707.00 | |
| | | 11/5/15 | | 336.32 | Static | 2707.05 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2007-6B | 3043.05 | 10/4/07 | | 319.17 | | 2723.88 | Sierrita EDMS |
| | | 1/21/08 | | 314.78 | | 2728.27 | |
| | | 4/17/08 | | 314.75 | | 2728.30 | |
| | | 7/24/08 | | 317.04 | | 2726.01 | |
| | | 10/23/08 | | 318.17 | | 2724.88 | |
| | | 1/22/09 | | 316.58 | | 2726.47 | |
| | | 4/2/09 | | 316.05 | | 2727.00 | |
| | | 7/22/09 | | 317.49 | | 2725.56 | |
| | | 10/26/09 | | 319.37 | | 2723.68 | |
| | | 3/11/10 | | 316.58 | | 2726.47 | |
| | | 4/21/10 | | 316.64 | | 2726.41 | |
| | | 8/10/10 | | 318.40 | | 2724.65 | |
| | | 10/26/10 | | 318.66 | | 2724.39 | |
| | | 1/18/11 | | 317.52 | | 2725.53 | |
| | | 5/5/11 | | 317.00 | | 2726.05 | |
| | | 7/7/11 | | 318.58 | | 2724.47 | |
| | | 10/6/11 | | 319.92 | | 2723.13 | |
| | | 1/11/12 | | 320.03 | | 2723.02 | |
| | | 6/12/12 | | 325.69 | | 2717.36 | |
| | | 8/13/12 | | 329.12 | | 2713.93 | |
| | | 10/18/12 | | 332.52 | | 2710.53 | |
| | | 1/8/13 | | 333.92 | | 2709.13 | |
| | | 4/9/13 | | 335.80 | | 2707.25 | |
| | | 7/10/13 | | 337.52 | | 2705.53 | |
| | | 10/22/13 | | 340.62 | | 2702.43 | |
| | | 1/6/14 | | 340.62 | | 2702.43 | |
| | | 3/12/14 | | 340.61 | | 2702.44 | |
| | | 4/9/14 | | 340.98 | | 2702.07 | |
| | | 5/14/14 | | 341.00 | | 2702.05 | |
| | | 6/23/14 | | 341.04 | | 2702.01 | |
| | | 7/8/14 | | 341.95 | | 2701.10 | |
| | | 8/7/14 | | 342.50 | | 2700.55 | |
| | | 9/8/14 | | 342.88 | Static | 2700.17 | |
| | | 10/29/14 | | 342.96 | | 2700.09 | |
| | | 11/26/14 | | 343.11 | | 2699.94 | |
| | | 12/2/14 | | 345.25 | | 2697.80 | |
| | | 1/8/15 | | 346.10 | Static | 2696.95 | |
| | | 2/27/15 | | 346.87 | Static | 2696.18 | |
| | | 3/18/15 | | 346.11 | Static | 2696.94 | |
| | | 4/16/15 | | 347.00 | Static | 2696.05 | |
| | | 5/21/15 | | 347.39 | Static | 2695.66 | |
| | | 6/2/15 | | 347.75 | Static | 2695.30 | |
| | | 7/2/15 | | 350.24 | Static | 2692.81 | |
| | | 8/25/15 | | 351.57 | Static | 2691.48 | |
| | | 10/19/15 | | 351.41 | Static | 2691.64 | |
| | | 11/5/15 | | 351.30 | Static | 2691.75 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| MO-2009-1[2] | 2890.78 | 6/2/09 | | 226.35 | | 2664.43 | Sierrita EDMS |
| | | 7/29/09 | | 222.46 | | 2668.32 | |
| | | 11/3/09 | | 225.90 | | 2664.88 | |
| | | 1/25/10 | | 212.26 | | 2678.52 | |
| | | 4/20/10 | | 219.94 | | 2670.84 | |
| | | 8/10/10 | | 227.88 | | 2662.90 | |
| | | 12/15/10 | | 215.16 | | 2675.62 | |
| | | 2/2/11 | | 214.99 | | 2675.79 | |
| | | 6/16/11 | | 226.45 | | 2664.33 | |
| | | 8/31/11 | | 223.97 | | 2666.81 | |
| | | 12/1/11 | | 219.96 | | 2670.82 | |
| | | 1/11/12 | | 222.55 | | 2668.23 | |
| | | 5/9/12 | | 225.63 | | 2665.15 | |
| | | 8/15/12 | | 234.23 | | 2656.55 | |
| | | 11/29/12 | | 229.30 | | 2661.48 | |
| | | 1/8/13 | | 229.63 | | 2661.15 | |
| | | 4/10/13 | | 233.98 | | 2656.80 | |
| | | 7/11/13 | | 238.53 | | 2652.25 | |
| | | 10/16/13 | | 237.57 | | 2653.21 | |
| | | 1/6/14 | | 236.58 | | 2654.20 | |
| | | 3/12/14 | | 237.34 | | 2653.44 | |
| | | 4/24/14 | | 248.16 | | 2642.62 | |
| | | 5/6/14 | | 248.19 | | 2642.59 | |
| | | 6/23/14 | | 248.22 | | 2642.56 | |
| | | 7/8/14 | | 252.36 | | 2638.42 | |
| | | 8/7/14 | | 254.35 | | 2636.43 | |
| | | 9/8/14 | | 256.45 | Static | 2634.33 | |
| | | 10/29/14 | | 258.27 | | 2632.51 | |
| | | 11/26/14 | | 259.64 | | 2631.14 | |
| | | 12/2/14 | | 248.01 | | 2642.77 | |
| | | 1/13/15 | | 248.22 | Static | 2642.56 | |
| | | 2/27/15 | | 250.14 | Static | 2640.64 | |
| | | 3/26/15 | | 251.42 | Static | 2639.36 | |
| | | 4/15/15 | | 262.15 | Static | 2628.63 | |
| | | 5/21/15 | | 266.63 | Static | 2624.15 | |
| | | 6/2/15 | | 269.42 | Static | 2621.36 | |
| | | 7/7/15 | | 268.50 | Static | 2622.28 | |
| | | 8/14/15 | | 268.44 | Static | 2622.34 | |
| | | 10/20/15 | | 254.32 | Static | 2636.46 | |
| | | 11/2/15 | | 253.14 | Static | 2637.64 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| NP-2[2] | 2906.56 | 11/6/07 | | 355.10 | | 2551.46 | Sierrita EDMS |
| | | 1/11/08 | | 353.67 | | 2552.89 | |
| | | 4/17/08 | | 352.20 | | 2554.36 | |
| | | 7/11/08 | | 355.10 | | 2551.46 | |
| | | 10/9/08 | | 356.24 | | 2550.32 | |
| | | 2/9/09 | | 355.00 | | 2551.56 | |
| | | 4/24/09 | | 354.80 | | 2551.76 | |
| | | 9/22/09 | | 358.90 | | 2547.66 | |
| | | 12/31/09 | | 358.57 | | 2547.99 | |
| | | 2/17/10 | | 357.20 | | 2549.36 | |
| | | 4/22/10 | | 356.38 | | 2550.18 | |
| | | 8/5/10 | | 357.93 | | 2548.63 | |
| | | 10/25/10 | | 360.80 | | 2545.76 | |
| | | 1/19/11 | | 358.68 | | 2547.88 | |
| | | 5/3/11 | | 358.30 | | 2548.26 | |
| | | 7/18/11 | | 359.72 | | 2546.84 | |
| | | 12/5/11 | | 360.27 | | 2546.29 | |
| | | 3/21/12 | | 358.10 | | 2548.46 | |
| | | 6/18/12 | | 359.28 | | 2547.28 | |
| | | 8/15/12 | | 360.45 | | 2546.11 | |
| | | 11/29/12 | | 360.79 | | 2545.77 | |
| | | 2/20/13 | | 356.92 | | 2549.64 | |
| | | 6/17/13 | | 358.19 | | 2548.37 | |
| | | 8/27/13 | | 360.56 | | 2546.00 | |
| | | 10/30/13 | | 362.56 | | 2544.00 | |
| | | 1/7/14 | | 361.24 | | 2545.32 | |
| | | 3/12/14 | | 363.18 | | 2543.38 | |
| | | 4/23/14 | | 364.29 | | 2542.27 | |
| | | 5/14/14 | | 364.22 | | 2542.34 | |
| | | 6/23/14 | | 364.24 | | 2542.32 | |
| | | 7/1/14 | | 368.67 | | 2537.89 | |
| | | 8/8/14 | | 370.36 | | 2536.20 | |
| | | 9/9/14 | | 372.75 | Static | 2533.81 | |
| | | 10/13/14 | | 374.58 | | 2531.98 | |
| | | 11/26/14 | | 375.76 | | 2530.80 | |
| | | 12/17/14 | | 376.89 | Static | 2529.67 | |
| | | 1/14/15 | | 377.12 | Static | 2529.44 | |
| | | 2/27/15 | | 377.25 | Static | 2529.31 | |
| | | 3/26/15 | | 377.65 | Static | 2528.91 | |
| | | 4/28/15 | | UTM | Static | NA | |
| | | 5/21/15 | | UTM | Static | NA | |
| | | 6/2/15 | | UTM | Static | NA | |
| | | 7/23/15 | | UTM | Static | NA | |
| | | 8/25/15 | | UTM | Static | NA | |
| | | 11/2/15 | | UTM | Static | NA | |
| PS-1 | 3040.665 | 12/30/11 | 497.01 | | Static | | BasinWells, 2015a |
| | | 12/30/11 | 517.69 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | Obstructed | | NA | Sierrita EDMS |
| | | 5/8/14 | | 516.79 | Dynamic | 2523.88 | Sierrita EDMS |
| | | 5/15/14 | | 516.79 | Dynamic | 2523.88 | Sierrita EDMS |
| | | 5/15/14 | 516.79 | | Dynamic | | BasinWells, 2015a |
| | | 5/22/14 | | 525.44 | Dynamic | 2515.23 | Sierrita EDMS |
| | | 5/22/14 | 525.44 | | Dynamic | | BasinWells, 2015a |
| | | 5/30/14 | 525.44 | | Dynamic | | BasinWells, 2015a |
| | | 6/5/14 | | 525.25 | Dynamic | 2515.42 | Sierrita EDMS |
| | | 6/5/14 | 525.25 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 527.00 | Dynamic | 2513.67 | Sierrita EDMS |
| | | 7/6/14 | 526.79 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 527.40 | Dynamic | 2513.27 | Sierrita EDMS |
| | | 7/31/14 | 527.40 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 527.40 | Dynamic | 2513.27 | Sierrita EDMS |
| | | 8/27/14 | 527.40 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 517.95 | Static | 2522.72 | Sierrita EDMS |
| | | 10/1/14 | 517.74 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 531.19 | Dynamic | 2509.48 | Sierrita EDMS |
| | | 11/4/14 | 530.98 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 532.05 | Dynamic | 2508.62 | Sierrita EDMS |
| | | 12/2/14 | 531.84 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 532.50 | Dynamic | 2508.17 | Sierrita EDMS |
| | | 2/4/15 | | 533.20 | Dynamic | 2507.47 | Sierrita EDMS |
| | | 3/3/15 | | 533.60 | Dynamic | 2507.07 | Sierrita EDMS |
| | | 4/9/15 | | 534.15 | Dynamic | 2506.52 | Sierrita EDMS |
| | | 5/2/15 | | 534.95 | Dynamic | 2505.72 | Sierrita EDMS |
| | | 6/9/15 | | 536.00 | Dynamic | 2504.67 | Sierrita EDMS |
| | | 7/6/15 | | 537.05 | Dynamic | 2503.62 | Sierrita EDMS |
| | | 8/18/15 | | 538.65 | Dynamic | 2502.02 | Sierrita EDMS |
| | | 10/7/15 | | 540.50 | Dynamic | 2500.17 | Sierrita EDMS |
| | | 11/4/15 | | 540.98 | Dynamic | 2499.69 | Sierrita EDMS |
| | | 12/9/15 | | 541.40 | Dynamic | 2499.27 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| PS-2 | 3027.673 | 6/5/12 | 486.97 | | Static | | BasinWells, 2015a |
| | | 6/5/12 | 509.07 | | Dynamic | | BasinWells, 2015a |
| | | 1/15/14 | | 507.18 | Dynamic | 2520.49 | Sierrita EDMS |
| | | 1/15/14 | 507.18 | | Dynamic | | BasinWells, 2015a |
| | | 1/22/14 | | 494.54 | Dynamic | 2533.13 | Sierrita EDMS |
| | | 1/28/14 | 507.91 | | Dynamic | | BasinWells, 2015a |
| | | 2/5/14 | 506.02 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | 510.78 | Dynamic | 2516.89 | Sierrita EDMS |
| | | 5/8/14 | | 514.76 | Dynamic | 2512.91 | Sierrita EDMS |
| | | 5/30/14 | 514.76 | | Dynamic | | BasinWells, 2015a |
| | | 6/5/14 | | 514.95 | Dynamic | 2512.72 | Sierrita EDMS |
| | | 6/5/14 | 514.95 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 516.80 | Dynamic | 2510.87 | Sierrita EDMS |
| | | 7/6/14 | 516.59 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 518.30 | Dynamic | 2509.37 | Sierrita EDMS |
| | | 7/31/14 | 518.30 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 519.40 | Dynamic | 2508.27 | Sierrita EDMS |
| | | 8/27/14 | 519.40 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 507.20 | Static | 2520.47 | Sierrita EDMS |
| | | 10/1/14 | 506.99 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 523.35 | Dynamic | 2504.32 | Sierrita EDMS |
| | | 11/4/14 | 523.14 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 523.80 | Dynamic | 2503.87 | Sierrita EDMS |
| | | 12/2/14 | 523.59 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 524.60 | Dynamic | 2503.07 | Sierrita EDMS |
| | | 2/4/15 | | 524.50 | Dynamic | 2503.17 | Sierrita EDMS |
| | | 3/3/15 | | 524.70 | Dynamic | 2502.97 | Sierrita EDMS |
| | | 4/9/15 | | 525.20 | Dynamic | 2502.47 | Sierrita EDMS |
| | | 5/2/15 | | 526.10 | Dynamic | 2501.57 | Sierrita EDMS |
| | | 6/9/15 | | 527.00 | Dynamic | 2500.67 | Sierrita EDMS |
| | | 7/6/15 | | 528.20 | Dynamic | 2499.47 | Sierrita EDMS |
| | | 8/18/15 | | 529.80 | Dynamic | 2497.87 | Sierrita EDMS |
| | | 10/7/15 | | 531.75 | Dynamic | 2495.92 | Sierrita EDMS |
| | | 11/4/15 | | 531.95 | Dynamic | 2495.72 | Sierrita EDMS |
| | | 12/9/15 | | 532.15 | Dynamic | 2495.52 | Sierrita EDMS |
| PS-3 | 3006.351 | 5/14/12 | 466.60 | | Static | | BasinWells, 2015a |
| | | 5/14/12 | 490.30 | | Dynamic | | BasinWells, 2015a |
| | | 1/15/14 | | 488.84 | Dynamic | 2517.51 | Sierrita EDMS |
| | | 1/15/14 | 488.84 | | Dynamic | | BasinWells, 2015a |
| | | 1/22/14 | | 488.23 | Dynamic | 2518.12 | Sierrita EDMS |
| | | 1/22/14 | 488.23 | | Dynamic | | BasinWells, 2015a |
| | | 1/28/14 | 487.89 | | Dynamic | | BasinWells, 2015a |
| | | 2/5/14 | 490.26 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | 491.86 | Dynamic | 2514.49 | Sierrita EDMS |
| | | 5/8/14 | | 495.82 | Dynamic | 2510.53 | Sierrita EDMS |
| | | 5/30/14 | 495.82 | | Dynamic | | BasinWells, 2015a |
| | | 6/5/14 | | 495.90 | Dynamic | 2510.45 | Sierrita EDMS |
| | | 6/5/14 | 495.90 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 497.70 | Dynamic | 2508.65 | Sierrita EDMS |
| | | 7/6/14 | 497.47 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 498.90 | Dynamic | 2507.45 | Sierrita EDMS |
| | | 7/31/14 | 498.90 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 500.25 | Dynamic | 2506.10 | Sierrita EDMS |
| | | 8/27/14 | 500.25 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 486.45 | Static | 2519.90 | Sierrita EDMS |
| | | 10/1/14 | 486.22 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 503.75 | Dynamic | 2502.60 | Sierrita EDMS |
| | | 11/4/14 | 503.52 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 504.20 | Dynamic | 2502.15 | Sierrita EDMS |
| | | 12/2/14 | 503.97 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 504.55 | Dynamic | 2501.80 | Sierrita EDMS |
| | | 2/4/15 | | 504.45 | Dynamic | 2501.90 | Sierrita EDMS |
| | | 3/3/15 | | 504.75 | Dynamic | 2501.60 | Sierrita EDMS |
| | | 4/9/15 | | 505.50 | Dynamic | 2500.85 | Sierrita EDMS |
| | | 5/2/15 | | 506.35 | Dynamic | 2500.00 | Sierrita EDMS |
| | | 6/9/15 | | 507.50 | Dynamic | 2498.85 | Sierrita EDMS |
| | | 7/6/15 | | 508.92 | Dynamic | 2497.43 | Sierrita EDMS |
| | | 8/18/15 | | 510.50 | Dynamic | 2495.85 | Sierrita EDMS |
| | | 10/7/15 | | 512.40 | Dynamic | 2493.95 | Sierrita EDMS |
| | | 11/4/15 | | 512.55 | Dynamic | 2493.80 | Sierrita EDMS |
| | | 12/9/15 | | 512.75 | Dynamic | 2493.60 | Sierrita EDMS |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| PS-4 | 3045.74 | 7/6/12 | 497.85 | | Static | | BasinWells, 2015a |
| | | 7/6/12 | 508.95 | | Dynamic | | BasinWells, 2015a |
| | | 1/15/14 | | 513.92 | Dynamic | 2531.82 | Sierrita EDMS |
| | | 1/15/14 | 513.92 | | Dynamic | | BasinWells, 2015a |
| | | 1/22/14 | | 514.38 | Dynamic | 2531.36 | Sierrita EDMS |
| | | 1/22/14 | 514.38 | | Dynamic | | BasinWells, 2015a |
| | | 1/28/14 | 514.64 | | Dynamic | | BasinWells, 2015a |
| | | 2/5/14 | 515.45 | | Dynamic | | BasinWells, 2015a |
| | | 3/13/14 | | 508.14 | Dynamic | 2537.60 | Sierrita EDMS |
| | | 5/8/14 | | 522.58 | Dynamic | 2523.16 | Sierrita EDMS |
| | | 5/30/14 | 522.58 | | Dynamic | | BasinWells, 2015a |
| | | 6/5/14 | | 523.05 | Dynamic | 2522.69 | Sierrita EDMS |
| | | 6/5/14 | 523.05 | | Dynamic | | BasinWells, 2015a |
| | | 7/6/14 | | 525.25 | Dynamic | 2520.49 | Sierrita EDMS |
| | | 7/6/14 | 525.02 | | Dynamic | | BasinWells, 2015a |
| | | 7/31/14 | | 526.30 | Dynamic | 2519.44 | Sierrita EDMS |
| | | 7/31/14 | 526.30 | | Dynamic | | BasinWells, 2015a |
| | | 8/27/14 | | 527.50 | Dynamic | 2518.24 | Sierrita EDMS |
| | | 8/27/14 | 527.50 | | Dynamic | | BasinWells, 2015a |
| | | 10/1/14 | | 520.05 | Static | 2525.69 | Sierrita EDMS |
| | | 10/1/14 | 519.82 | | Static | | BasinWells, 2015a |
| | | 11/4/14 | | 531.80 | Dynamic | 2513.94 | Sierrita EDMS |
| | | 11/4/14 | 531.57 | | Dynamic | | BasinWells, 2015a |
| | | 12/2/14 | | 532.60 | Dynamic | 2513.14 | Sierrita EDMS |
| | | 12/2/14 | 532.37 | | Dynamic | | BasinWells, 2015a |
| | | 1/4/15 | | 524.20 | Dynamic | 2521.54 | Sierrita EDMS |
| | | 2/4/15 | | 534.50 | Dynamic | 2511.24 | Sierrita EDMS |
| | | 3/3/15 | | 535.05 | Dynamic | 2510.69 | Sierrita EDMS |
| | | 4/9/15 | | 535.65 | Dynamic | 2510.09 | Sierrita EDMS |
| | | 5/2/15 | | 536.45 | Dynamic | 2509.29 | Sierrita EDMS |
| | | 6/9/15 | | 537.60 | Dynamic | 2508.14 | Sierrita EDMS |
| | | 7/6/15 | | 538.95 | Dynamic | 2506.79 | Sierrita EDMS |
| | | 8/18/15 | | 540.10 | Dynamic | 2505.64 | Sierrita EDMS |
| | | 10/7/15 | | 541.95 | Dynamic | 2503.79 | Sierrita EDMS |
| | | 11/4/15 | | 542.75 | Dynamic | 2502.99 | Sierrita EDMS |
| | | 12/9/15 | | 543.10 | Dynamic | 2502.64 | Sierrita EDMS |
| PZ-7 | 3549.17 | 11/16/06 | | 139.55 | | 3409.62 | Sierrita EDMS |
| | | 1/12/07 | | 139.50 | | 3409.67 | |
| | | 4/9/07 | | 139.65 | | 3409.52 | |
| | | 7/24/07 | | 139.76 | | 3409.41 | |
| | | 10/16/07 | | 139.49 | | 3409.68 | |
| | | 1/7/08 | | 139.25 | | 3409.92 | |
| | | 4/28/08 | | 139.59 | | 3409.58 | |
| | | 7/11/08 | | 139.71 | | 3409.46 | |
| | | 10/14/08 | | 139.73 | | 3409.44 | |
| | | 2/9/09 | | 139.79 | | 3409.38 | |
| | | 4/6/09 | | 139.80 | | 3409.37 | |
| | | 4/23/10 | | 140.22 | | 3408.95 | |
| | | 5/18/11 | | 140.62 | | 3408.55 | |
| | | 6/6/12 | | 136.67 | | 3412.50 | |
| | | 6/10/13 | | 136.91 | | 3412.26 | |
| | | 4/8/14 | | 135.75 | | 3413.42 | |
| | | 4/21/15 | | 136.49 | Static | 3412.68 | |
| | | 11/18/15 | | 138.20 | Static | 3410.97 | |
| PZ-8 | 3480.36 | 11/14/06 | | 206.30 | | 3274.06 | Sierrita EDMS |
| | | 1/10/07 | | 207.42 | | 3272.94 | |
| | | 4/17/07 | | 198.52 | | 3281.84 | |
| | | 7/12/07 | | 209.46 | | 3270.90 | |
| | | 10/5/07 | | 205.30 | | 3275.06 | |
| | | 1/3/08 | | 212.94 | | 3267.42 | |
| | | 4/8/08 | | 217.43 | | 3262.93 | |
| | | 7/1/08 | | 221.70 | | 3258.66 | |
| | | 10/8/08 | | 222.49 | | 3257.87 | |
| | | 1/8/09 | | 223.63 | | 3256.73 | |
| | | 4/8/09 | | 224.72 | | 3255.64 | |
| | | 4/20/10 | | 227.87 | | 3252.49 | |
| | | 4/19/11 | | 228.73 | | 3251.63 | |
| | | 4/25/12 | | 229.66 | | 3250.70 | |
| | | 6/10/13 | | 230.86 | | 3249.50 | |
| | | 4/23/14 | | 232.32 | | 3248.04 | |
| | | 4/24/14 | | 232.59 | | 3247.77 | |
| | | 4/14/15 | | 234.11 | Static | 3246.25 | |
| | | 11/18/15 | | 235.22 | Static | 3245.14 | |
| S-1 | 2920 | 6/19/15 | | 167.21 | Static | 2752.79 | Sierrita EDMS |
| | | 11/18/15 | | 169.40 | Static | 2750.60 | |
| ST-6 (POE-006) | 2855.88 | 6/18/15 | | 356.25 | Static[1] | 2499.63 | Sierrita EDMS |
| | | 11/25/15 | | 353.30 | Static[1] | 2502.58 | |

# APPENDIX C
# Water Elevation Data

| Well Name | Measuring Point Elevation (ft amsl) | Date | Depth to Water (ft bls) | Depth to Water (ft bmp) | Static/ Dynamic | Groundwater Elevation (ft amsl) | Data Source |
|---|---|---|---|---|---|---|---|
| TMM-1 | 2967.08 | 6/18/07 | | 432.50 | | 2534.58 | Sierrita EDMS |
| | | 6/19/07 | | 432.00 | | 2535.08 | |
| | | 10/4/07 | | 437.58 | | 2529.50 | |
| | | 1/10/08 | | 435.75 | | 2531.33 | |
| | | 4/18/08 | | 433.30 | | 2533.78 | |
| | | 7/9/08 | | 437.37 | | 2529.71 | |
| | | 10/9/08 | | 439.80 | | 2527.28 | |
| | | 2/4/09 | | 436.62 | | 2530.46 | |
| | | 4/21/09 | | 433.35 | | 2533.73 | |
| | | 10/14/09 | | 444.00 | | 2523.08 | |
| | | 4/20/10 | | 436.99 | | 2530.09 | |
| | | 10/6/10 | | 442.98 | | 2524.10 | |
| | | 4/21/11 | | 437.13 | | 2529.95 | |
| | | 12/21/11 | | 435.50 | | 2531.58 | |
| | | 5/15/12 | | 438.57 | | 2528.51 | |
| | | 11/23/12 | | 443.30 | | 2523.78 | |
| | | 6/19/13 | | 439.14 | | 2527.94 | |
| | | 10/29/13 | | 443.13 | | 2523.95 | |
| | | 4/23/14 | | 442.13 | | 2524.95 | |
| | | 10/2/14 | | 451.94 | Static | 2515.14 | |
| | | 4/28/15 | | UTM | Static | NA | |
| | | 12/2/15 | | UTM | Static | NA | |

*Notes:*

[1] Well was not pumping, however there may be residual drawdown due to pumping history at the well

[2] Anomalous data removed for NP-2 (6/7/07; 8/13/07), MO-2007-3B (10/10/12), and MO-2009-1 (8/27/13)

*ft amsl = feet above mean sea level*

*ft bls = feet below measuring point*

*EDMS = Environmental Data Management System*

*GVDWID = Green Valley Domestic Water Improvement District*

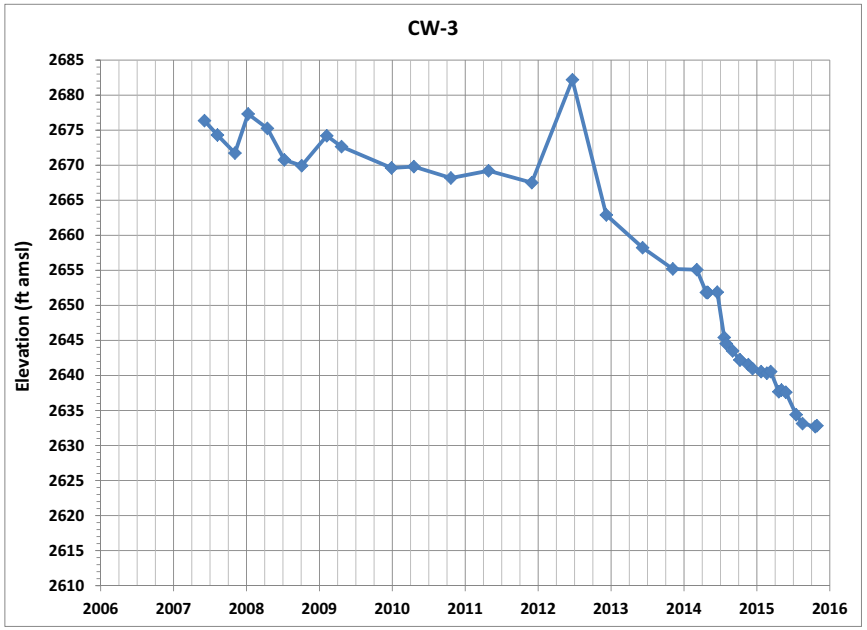
*ND = No elevation data*

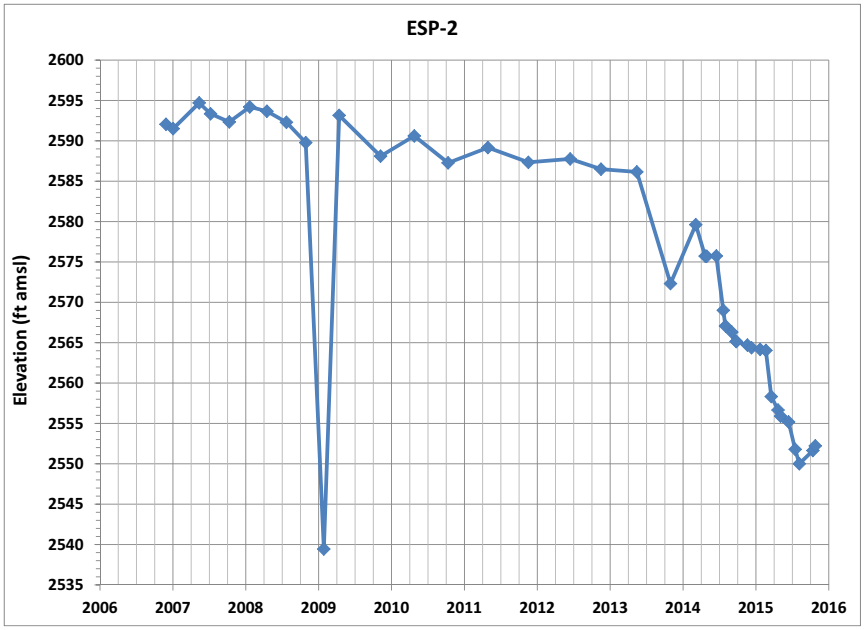
*NA = Not applicable*

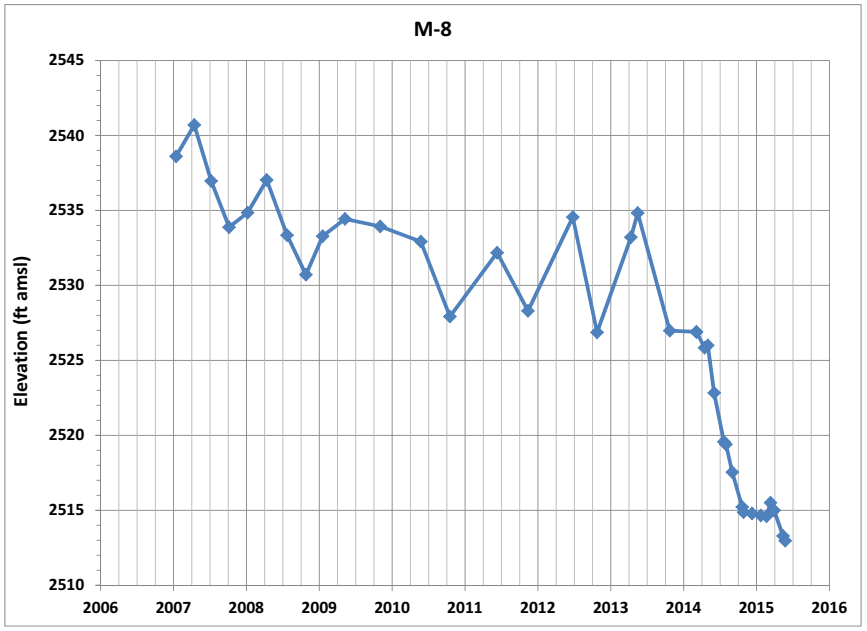
*UTM = Unable to measure*

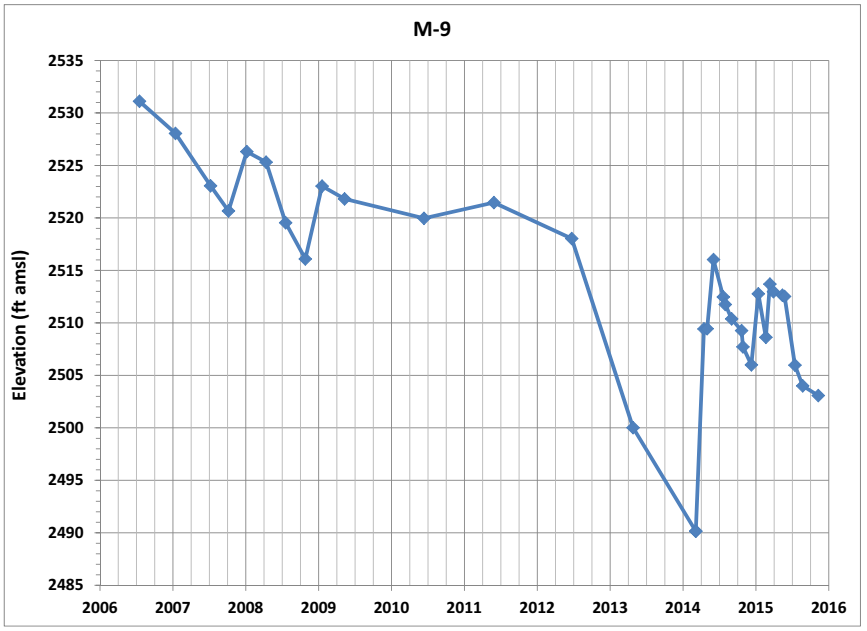
# APPENDIX D

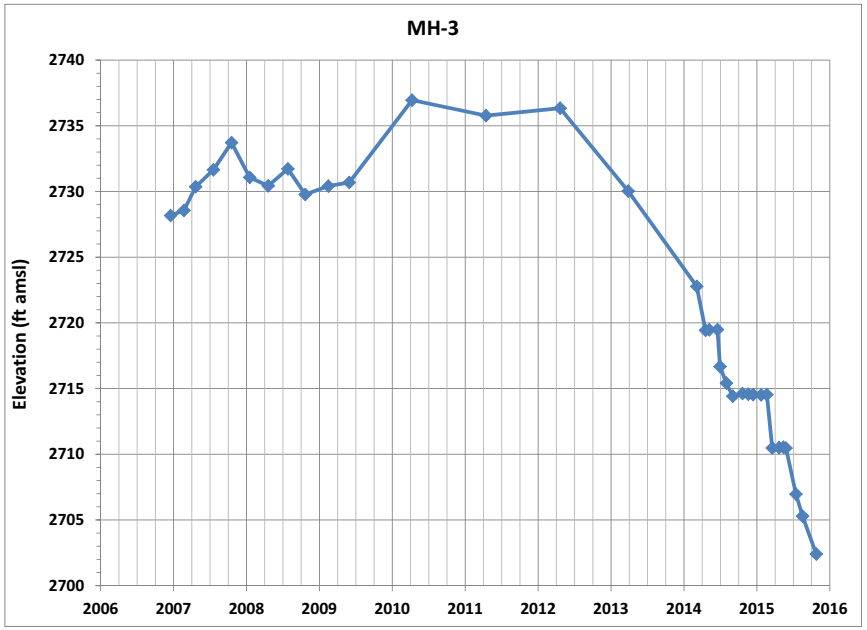
## HYDROGRAPHS FOR WELLS WITH ADDITIONAL MEASUREMENTS IN 2015 (ALPHABETIC BY WELL NAME)

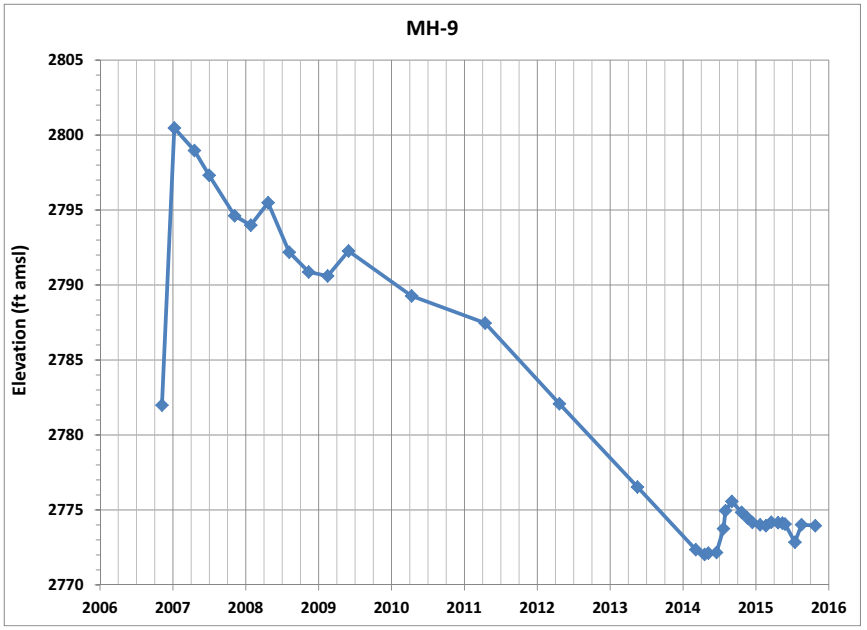

CW-3
Elevation (ft amsl)
2685
2680
2675
2670
2665
2660
2655
2650
2645
2640
2635
2630
2625
2620
2615
2610
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

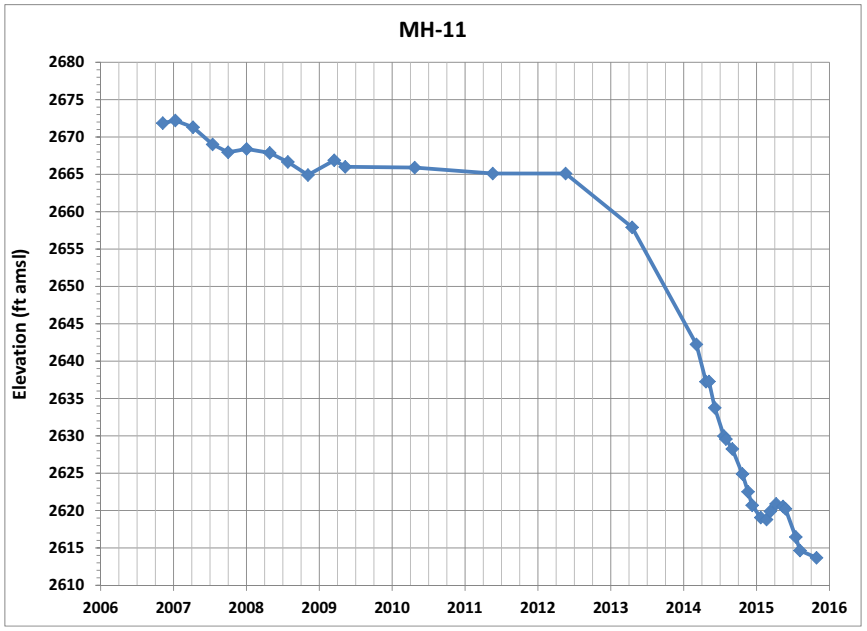

ESP-2
Elevation (ft amsl)
2600
2595
2590
2585
2580
2575
2570
2565
2560
2555
2550
2545
2540
2535
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

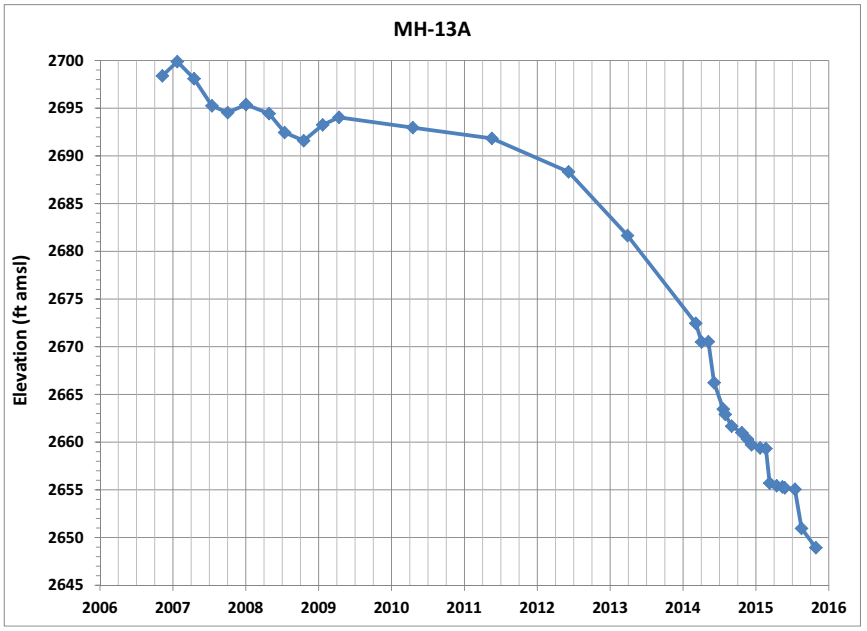

M-8
Elevation (ft amsl)
2545
2540
2535
2530
2525
2520
2515
2510
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

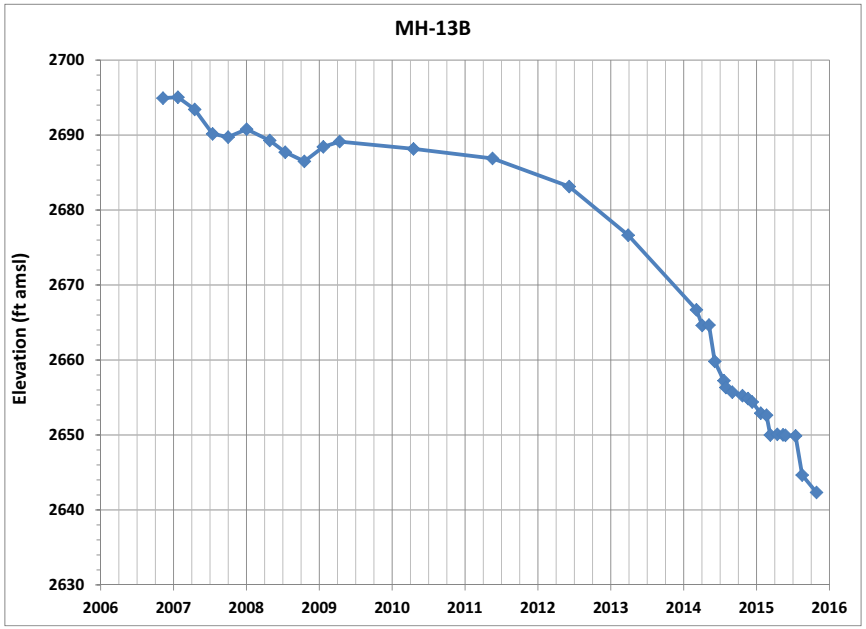

M-9
Elevation (ft amsl)
2535
2530
2525
2520
2515
2510
2505
2500
2495
2490
2485
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

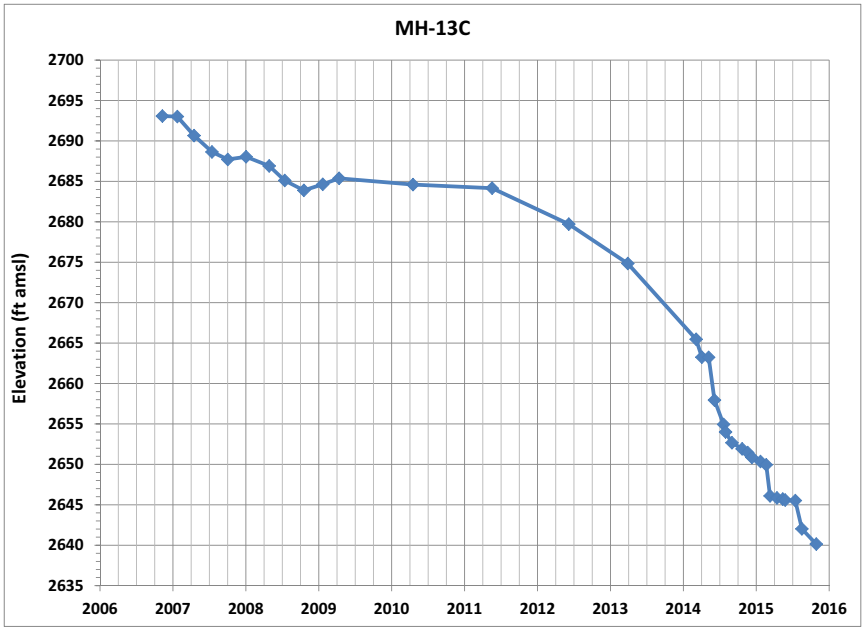

MH-3
Elevation (ft amsl)
2740
2735
2730
2725
2720
2715
2710
2705
2700
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

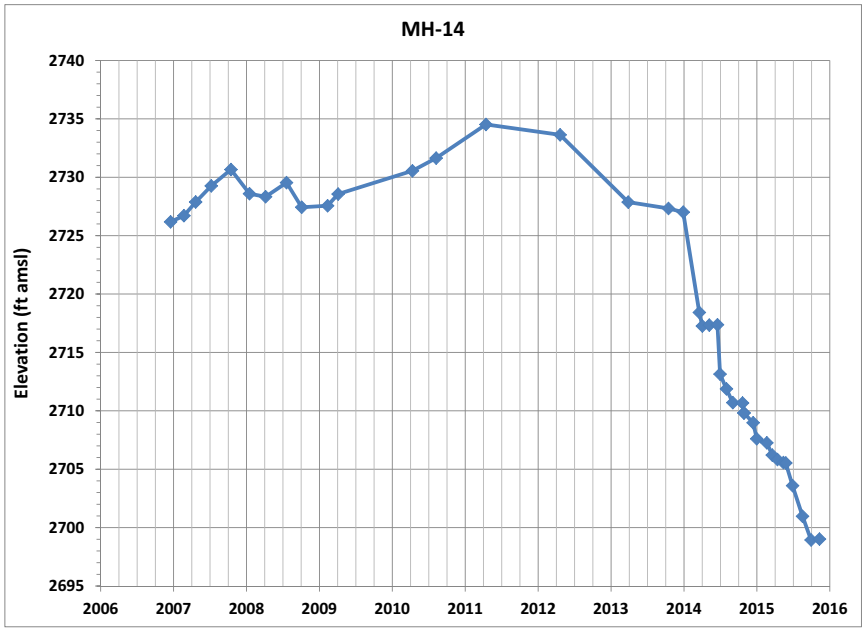

MH-9
Elevation (ft amsl)
2805
2800
2795
2790
2785
2780
2775
2770
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

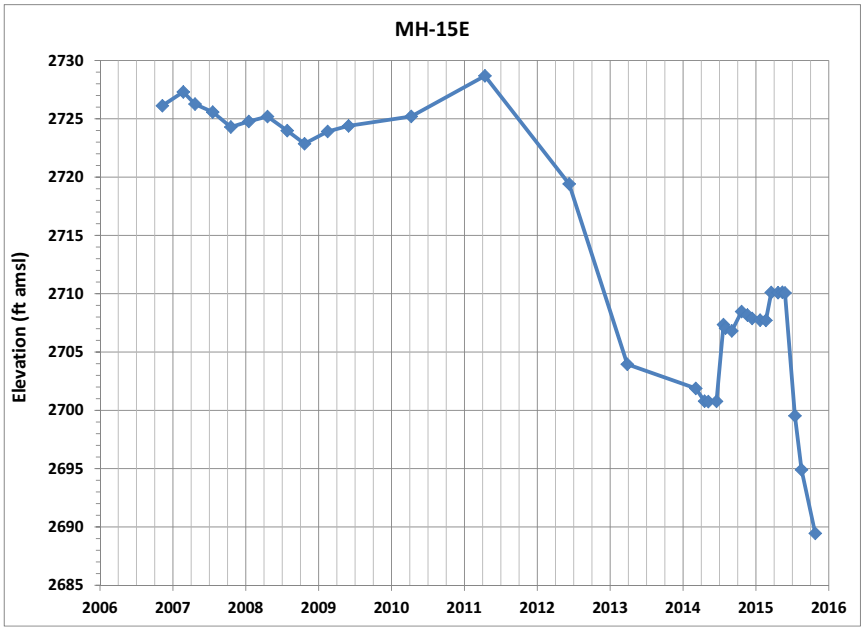

MH-11
Elevation (ft amsl)
2680
2675
2670
2665
2660
2655
2650
2645
2640
2635
2630
2625
2620
2615
2610
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

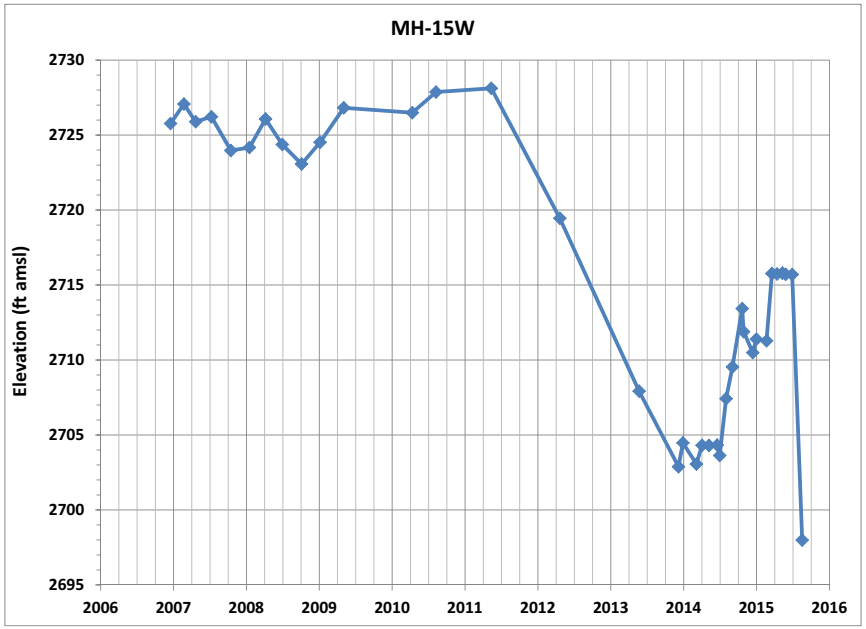

MH-13A
Elevation (ft amsl)
2700
2695
2690
2685
2680
2675
2670
2665
2660
2655
2650
2645
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-13B
Elevation (ft amsl)
2700
2690
2680
2670
2660
2650
2640
2630
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-13C
Elevation (ft amsl)
2700
2695
2690
2685
2680
2675
2670
2665
2660
2655
2650
2645
2640
2635
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-14
Elevation (ft amsl)
2740
2735
2730
2725
2720
2715
2710
2705
2700
2695
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-15E
Elevation (ft amsl)
2730
2725
2720
2715
2710
2705
2700
2695
2690
2685
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-15W
Elevation (ft amsl)
2730
2725
2720
2715
2710
2705
2700
2695
2006
2007
2008
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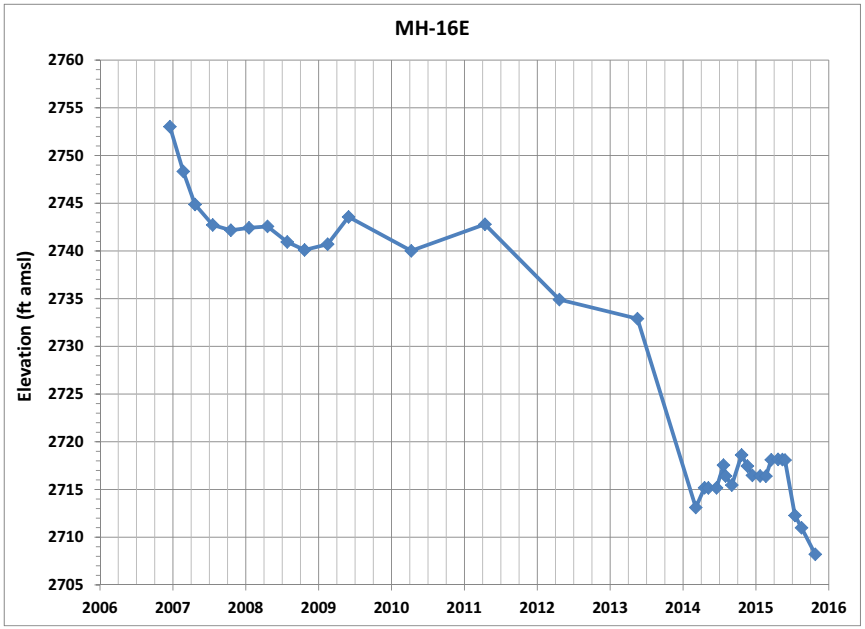
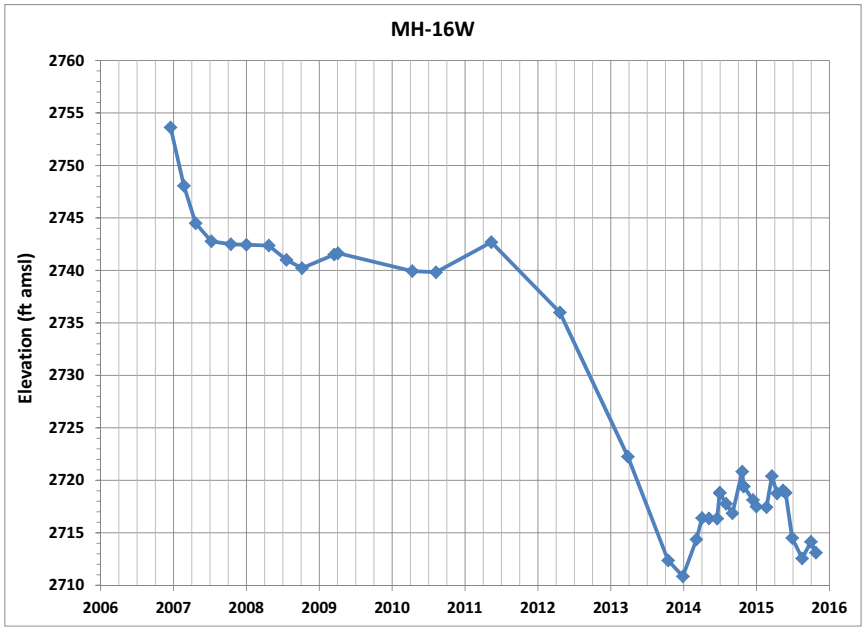
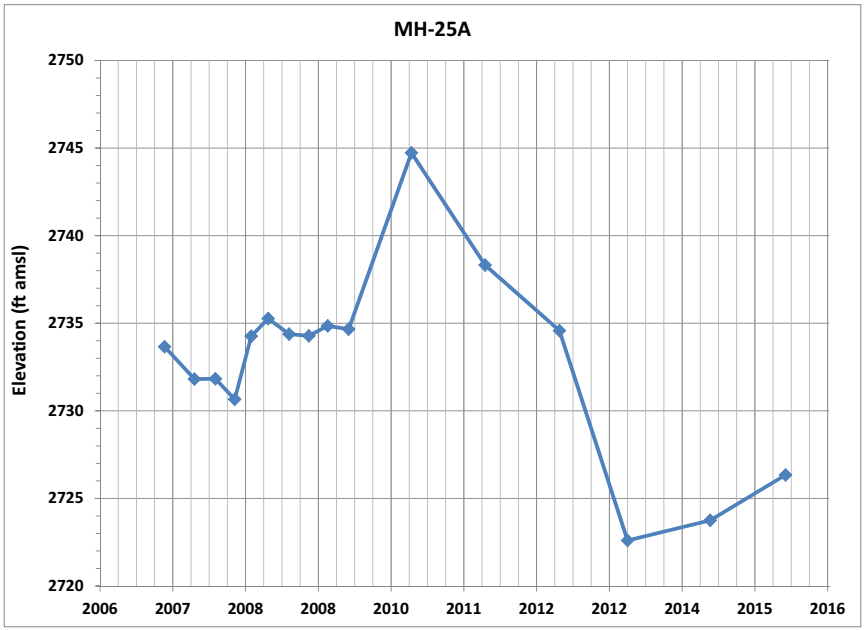
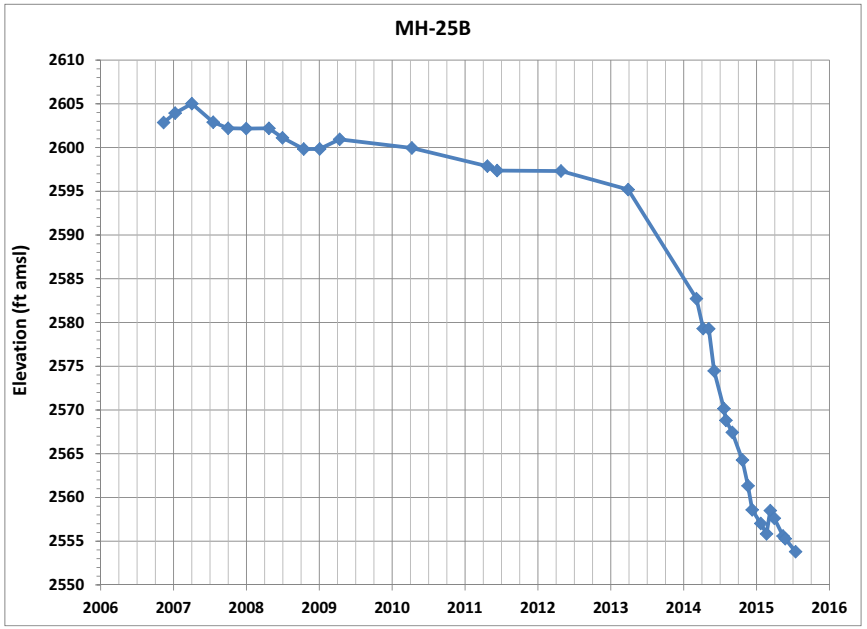
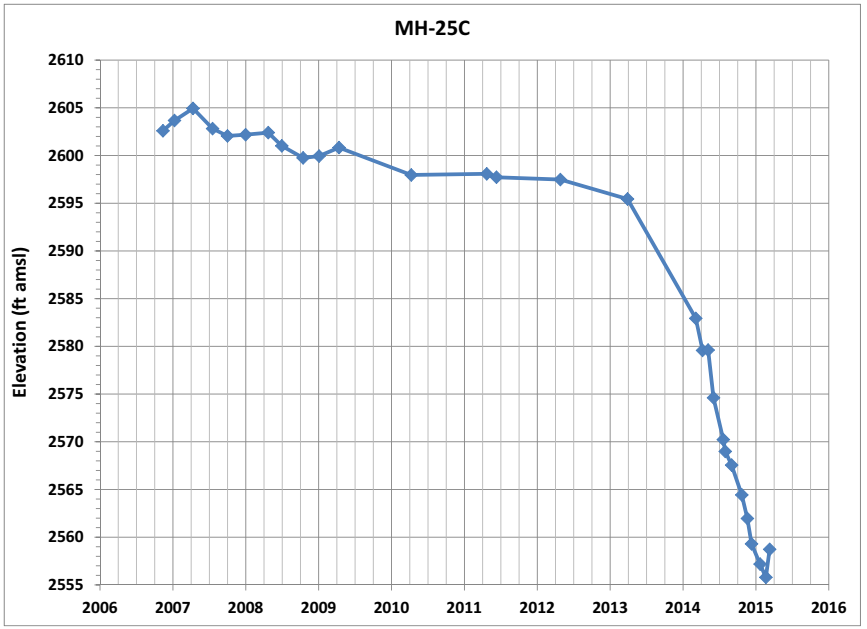
2010
2011
2012
2013
2014
2015
2016


MH-16E
Elevation (ft amsl)
2760
2755
2750
2745
2740
2735
2730
2725
2720
2715
2710
2705
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-16W
Elevation (ft amsl)
2760
2755
2750
2745
2740
2735
2730
2725
2720
2715
2710
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-25A
Elevation (ft amsl)
2750
2745
2740
2735
2730
2725
2720
2006
2007
2008
2008
2010
2011
2012
2012
2014
2015
2016


MH-25B
Elevation (ft amsl)
2610
2605
2600
2595
2590
2585
2580
2575
2570
2565
2560
2555
2550
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-25C
Elevation (ft amsl)
2610
2605
2600
2595
2590
2585
2580
2575
2570
2565
2560
2555
2006
2007
2008
2009
2010
2011
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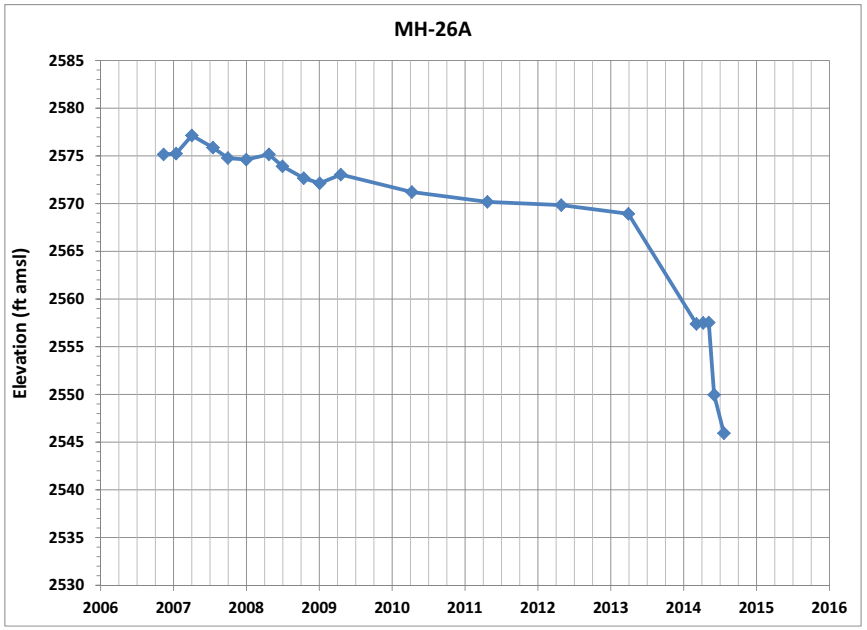
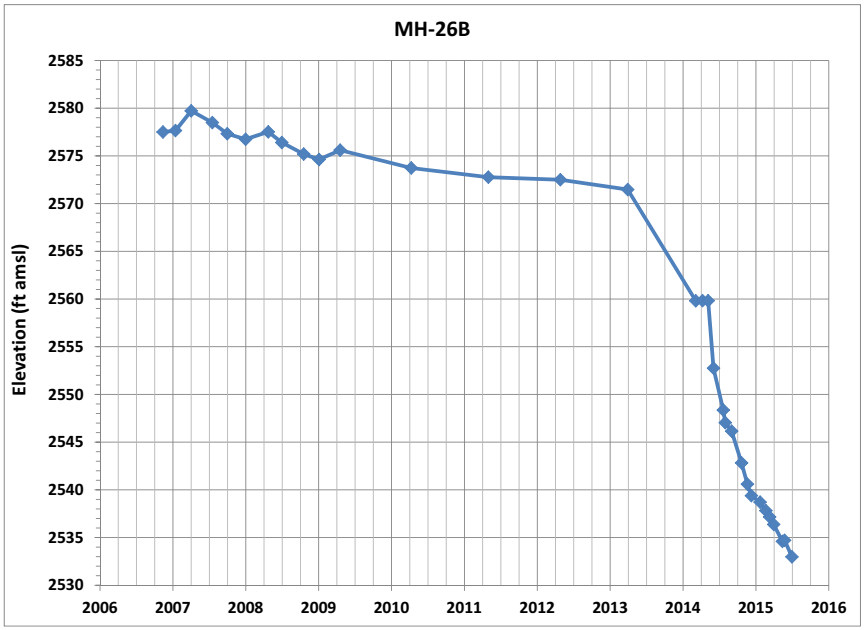
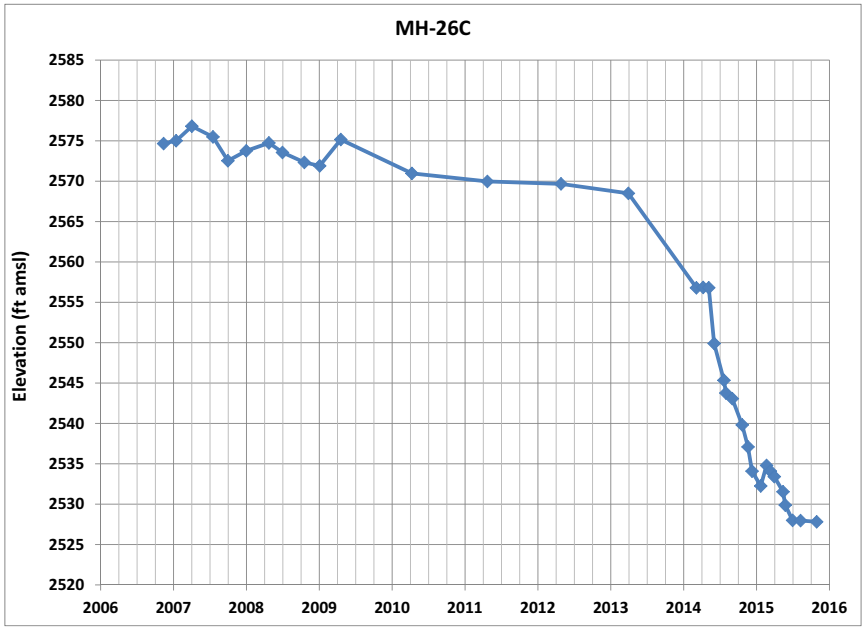
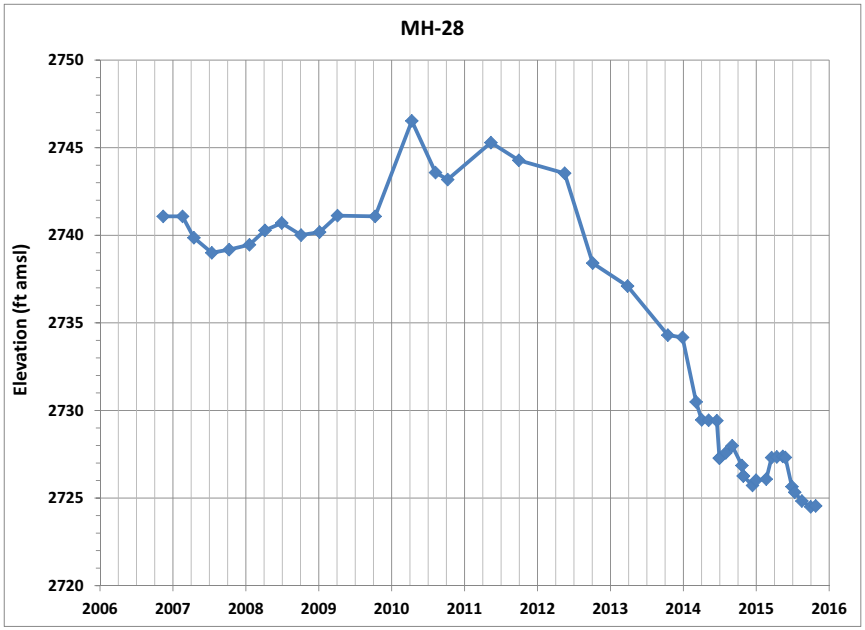
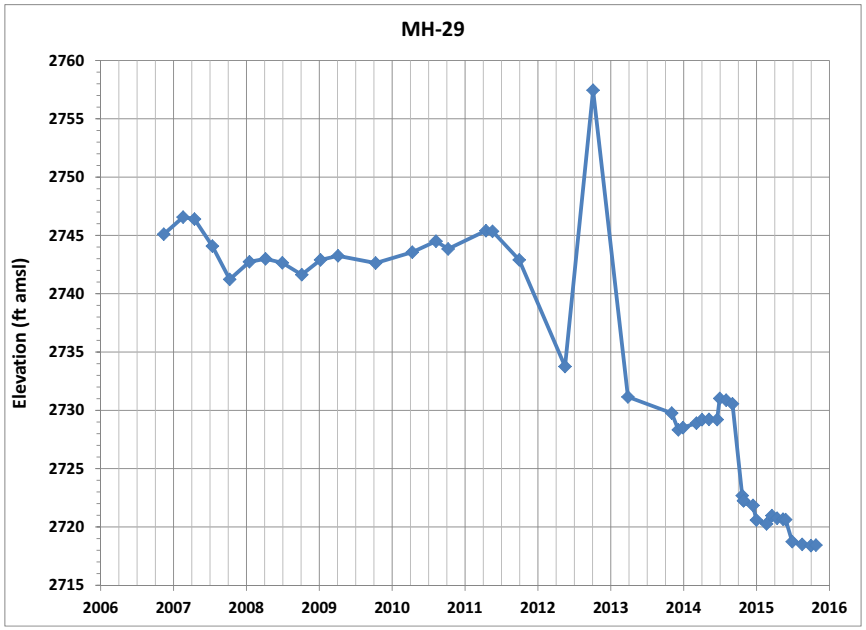
2013
2014
2015
2016


MH-26A
Elevation (ft amsl)
2585
2580
2575
2570
2565
2560
2555
2550
2545
2540
2535
2530
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-26B
Elevation (ft amsl)
2585
2580
2575
2570
2565
2560
2555
2550
2545
2540
2535
2530
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-26C
Elevation (ft amsl)
2585
2580
2575
2570
2565
2560
2555
2550
2545
2540
2535
2530
2525
2520
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-28
Elevation (ft amsl)
2750
2745
2740
2735
2730
2725
2720
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MH-29
Elevation (ft amsl)
2760
2755
2750
2745
2740
2735
2730
2725
2720
2715
2006
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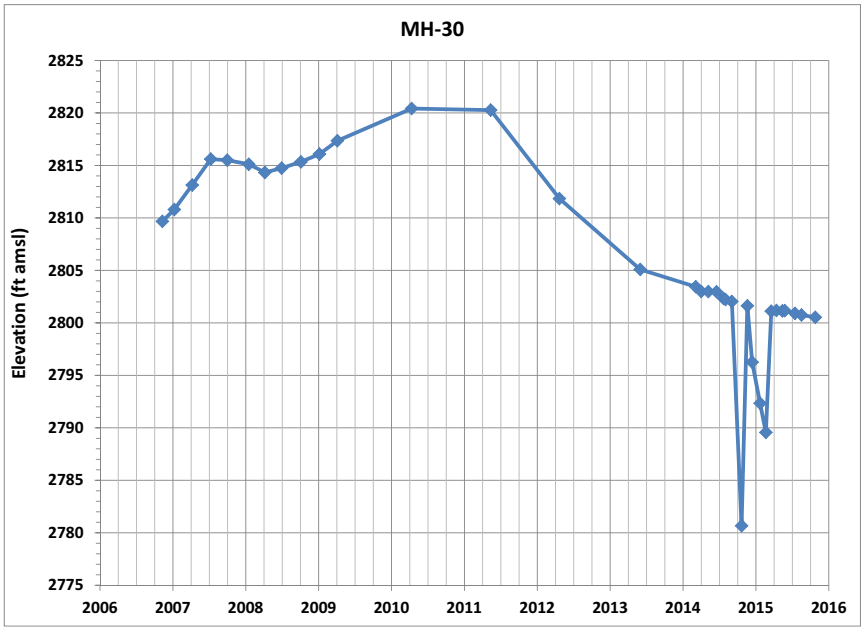
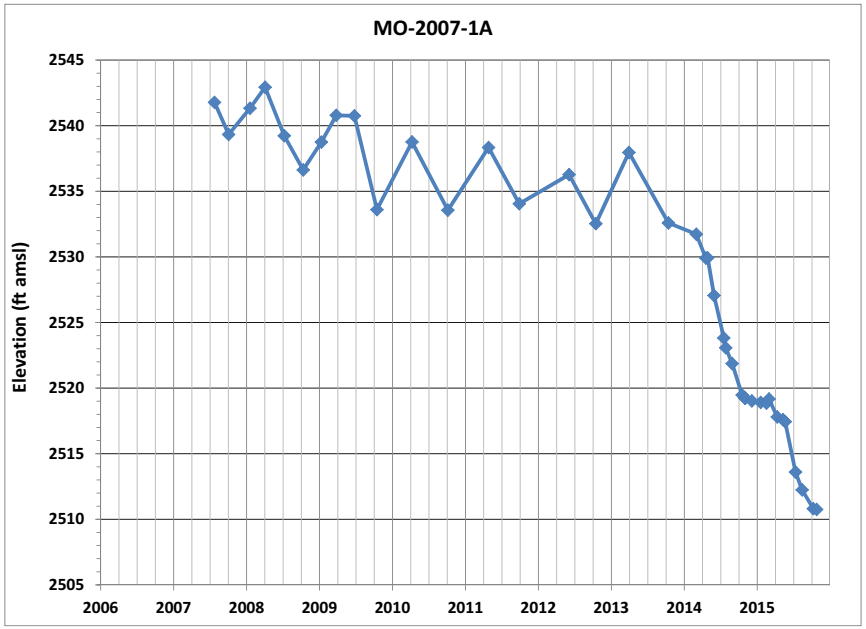
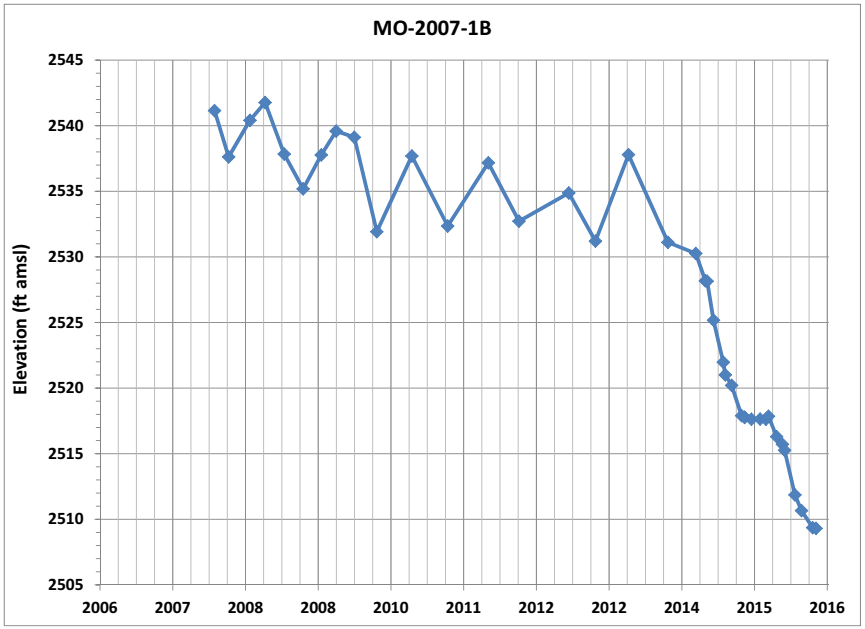
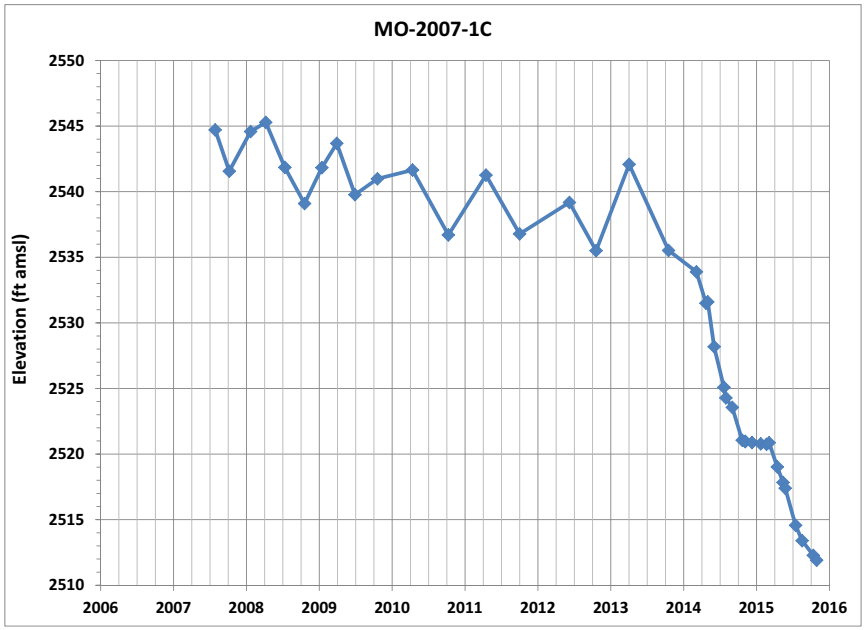
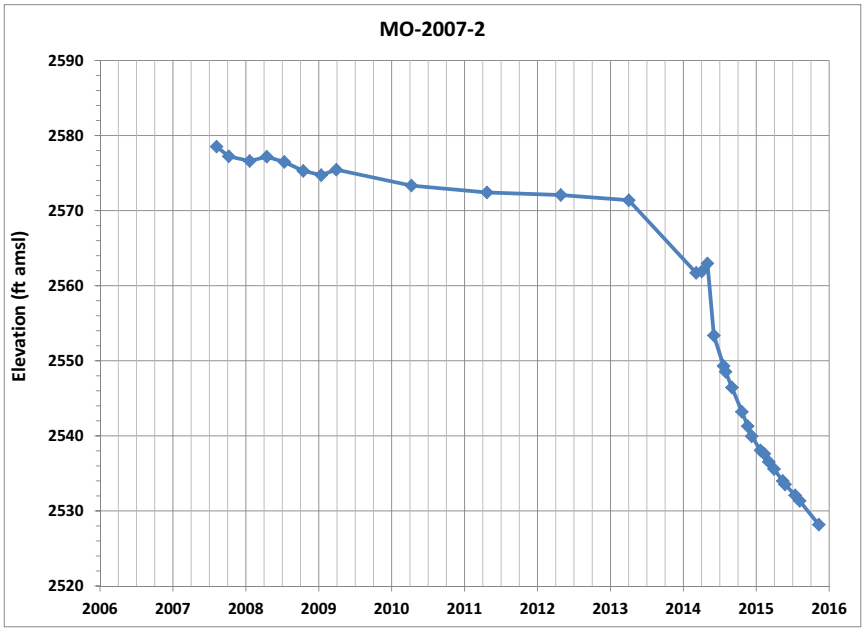
2011
2012
2013
2014
2015
2016


MH-30
Elevation (ft amsl)
2825
2820
2815
2810
2805
2800
2795
2790
2785
2780
2775
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MO-2007-1A
Elevation (ft amsl)
2545
2540
2535
2530
2525
2520
2515
2510
2505
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015


MO-2007-1B
Elevation (ft amsl)
2545
2540
2535
2530
2525
2520
2515
2510
2505
2006
2007
2008
2008
2010
2011
2012
2012
2014
2015
2016


MO-2007-1C
Elevation (ft amsl)
2550
2545
2540
2535
2530
2525
2520
2515
2510
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MO-2007-2
Elevation (ft amsl)
2590
2580
2570
2560
2550
2540
2530
2520
2006
2007
2008
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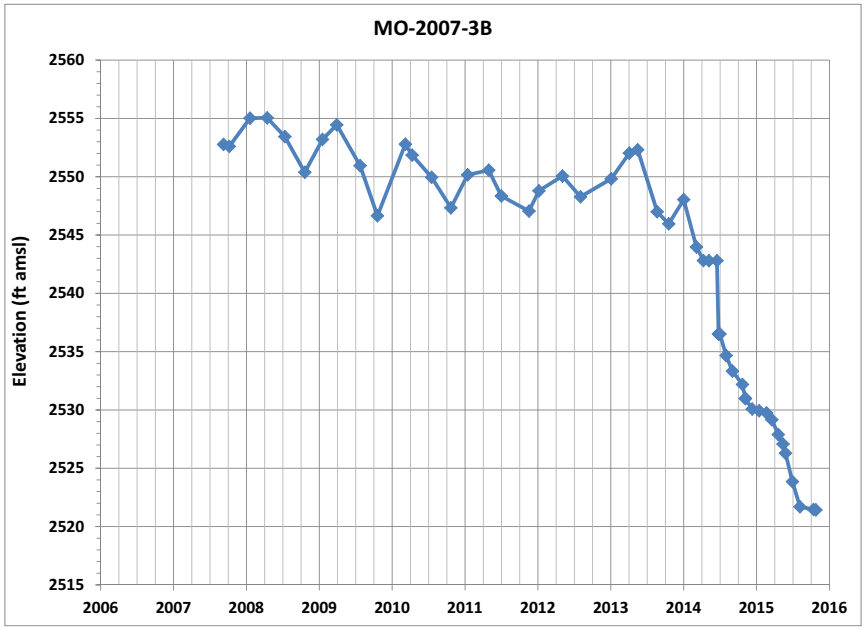
2011
2012
2013
2014
2015
2016


MO-2007-3B
Elevation (ft amsl)
2560
2555
2550
2545
2540
2535
2530
2525
2520
2515
2006
2007
2008
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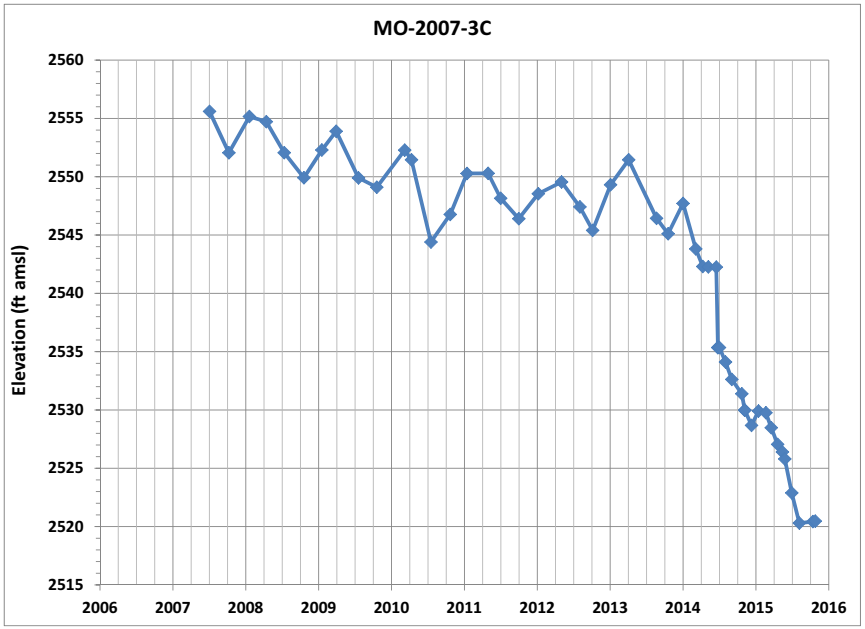
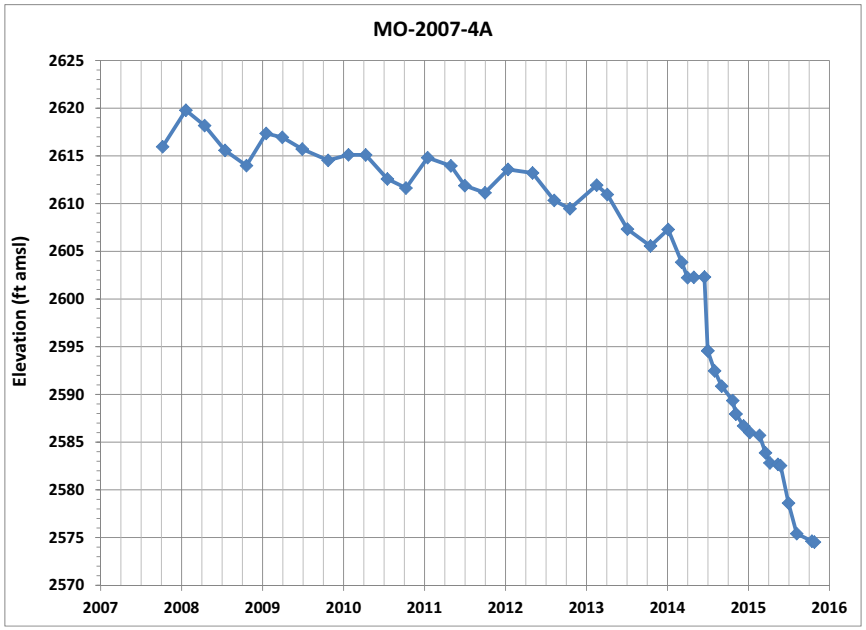
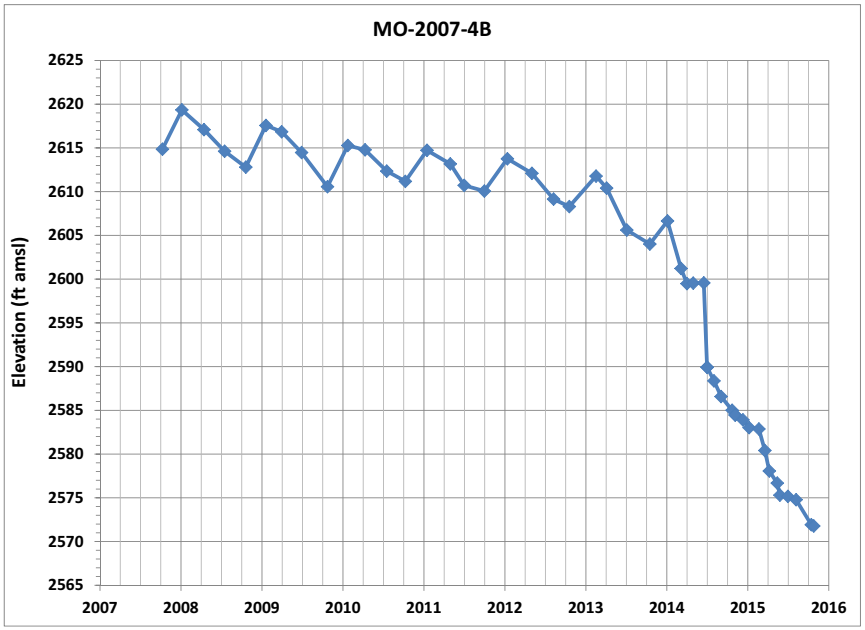
2011
2012
2013
2014
2015
2016


MO-2007-3C
Elevation (ft amsl)
2560
2555
2550
2545
2540
2535
2530
2525
2520
2515
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MO-2007-4A
Elevation (ft amsl)
2625
2620
2615
2610
2605
2600
2595
2590
2585
2580
2575
2570
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MO-2007-4B
Elevation (ft amsl)
2625
2620
2615
2610
2605
2600
2595
2590
2585
2580
2575
2570
2565
2007
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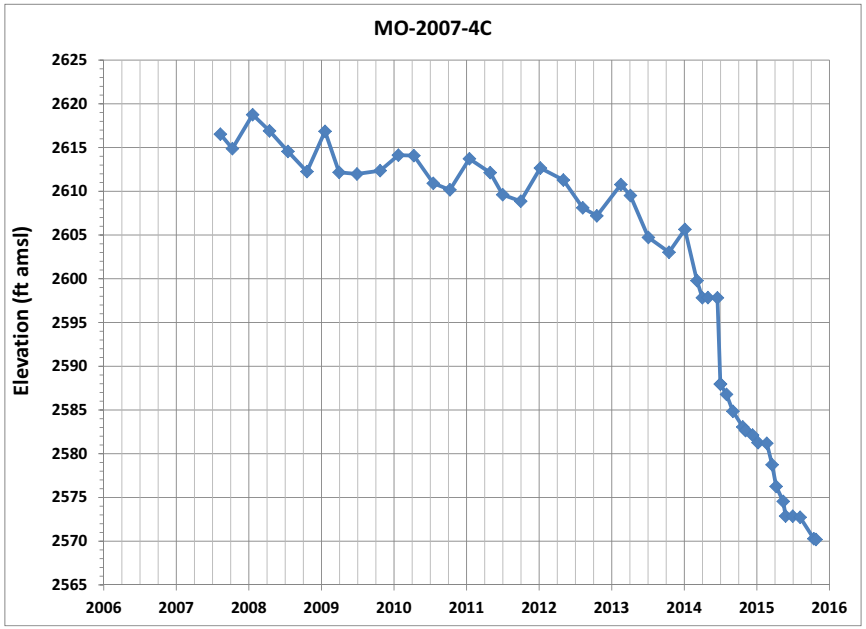
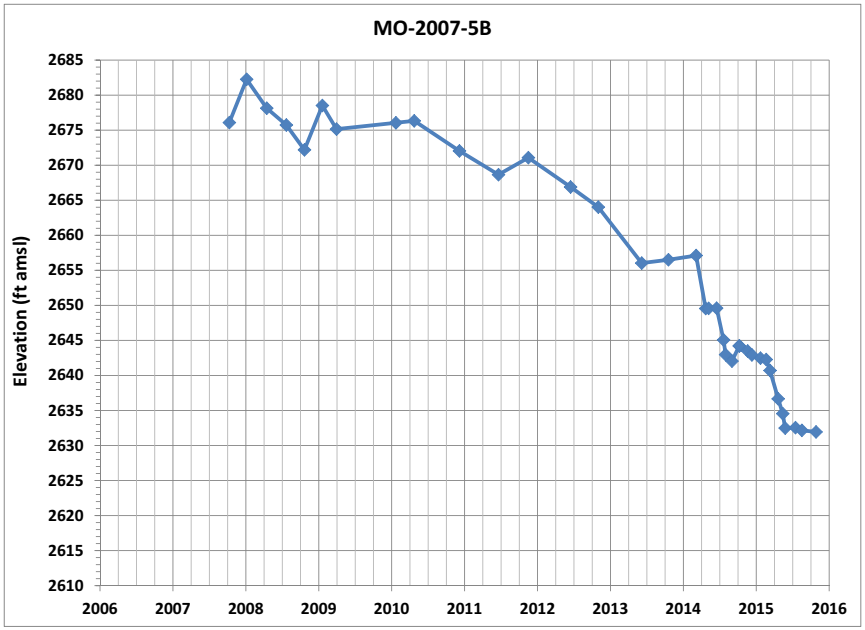
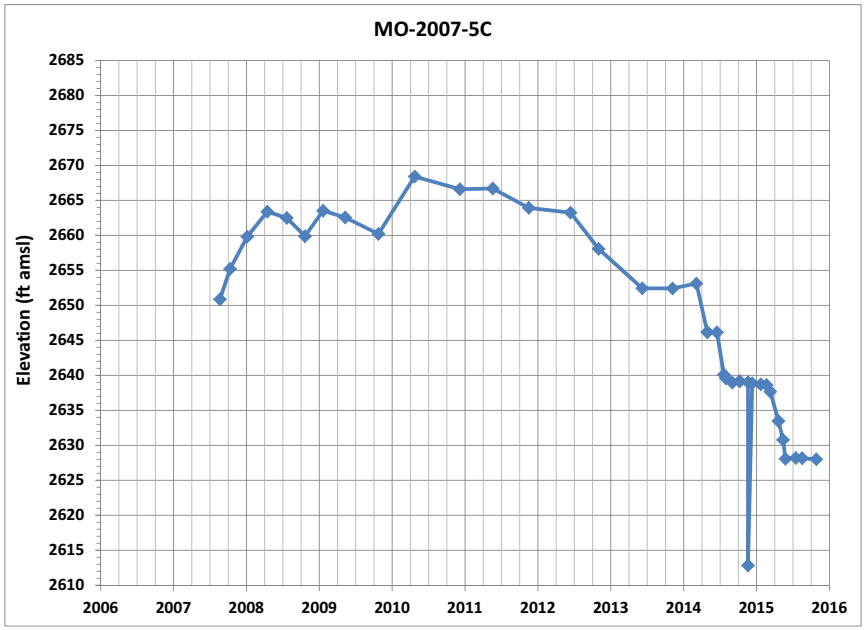
2011
2012
2013
2014
2015
2016


MO-2007-4C
Elevation (ft amsl)
2625
2620
2615
2610
2605
2600
2595
2590
2585
2580
2575
2570
2565
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016


MO-2007-5B
Elevation (ft amsl)
2685
2680
2675
2670
2665
2660
2655
2650
2645
2640
2635
2630
2625
2620
2615
2610
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016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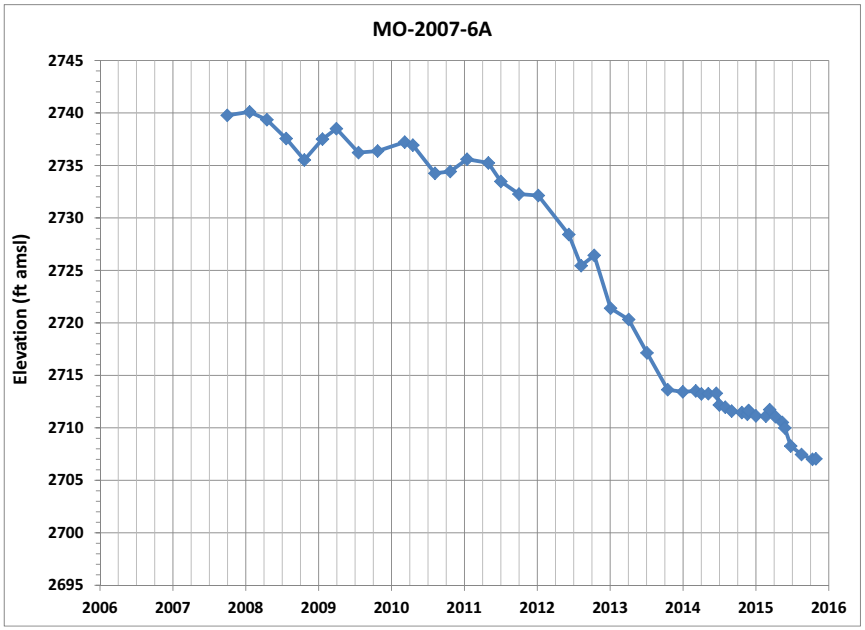
2015
2016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2735
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2006
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2008
2009
2010
2011
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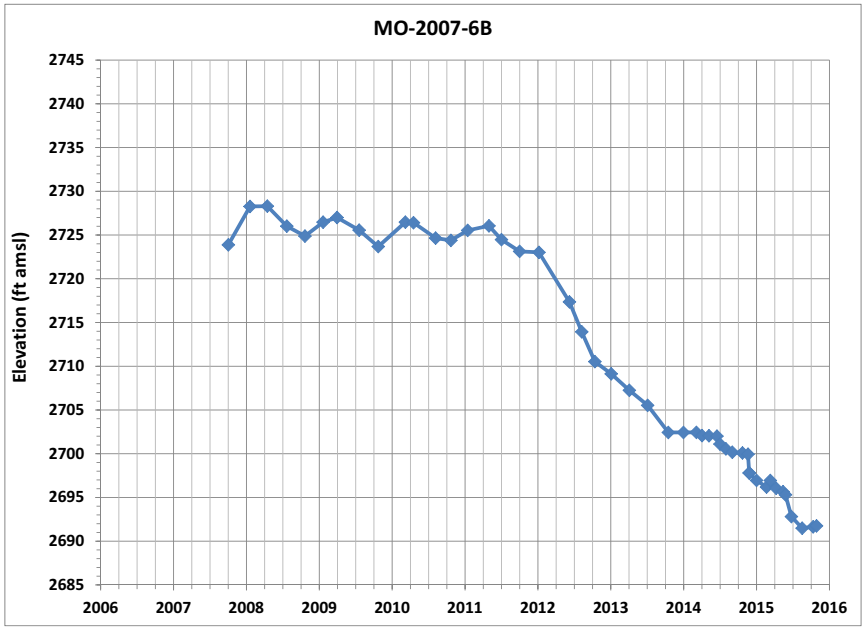
2013
2014
2015
2016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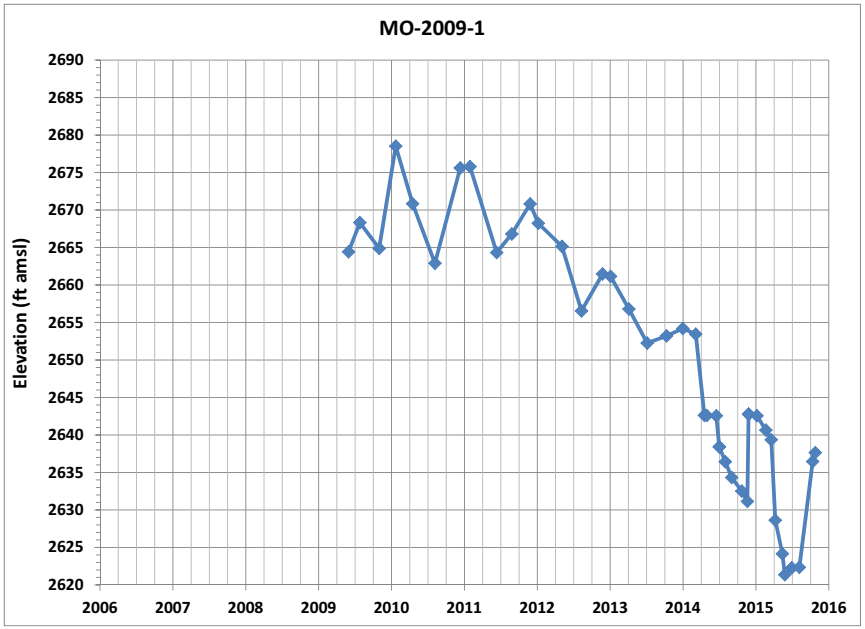
2013
2014
2015
2016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Elevation (ft amsl)
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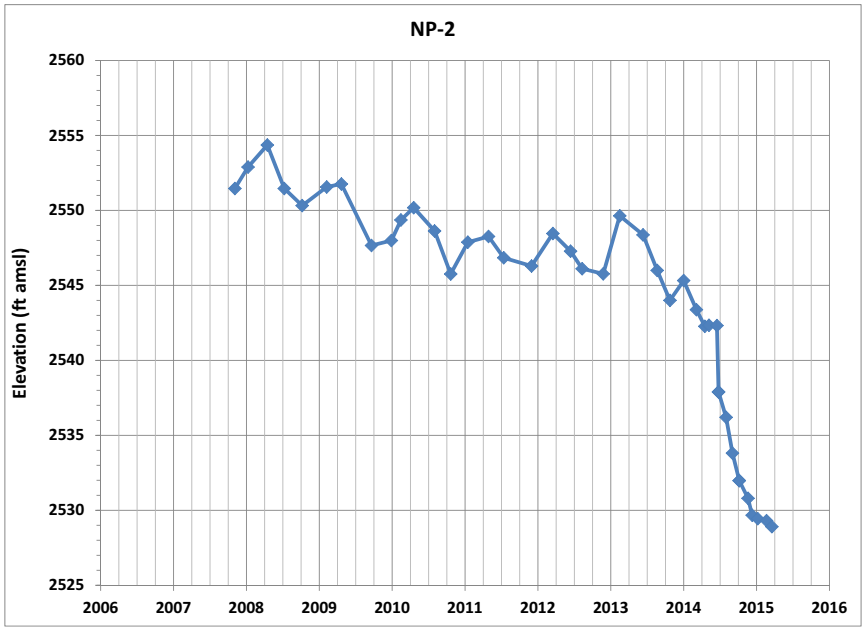
2014
2015
2016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Elevation (ft amsl)
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2555
2550
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2540
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2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

# APPENDIX E

# NUMERICAL MODEL UPDATE

# TECHNICAL MEMORANDUM

CLEAR CREEK ASSOCIATES

To: Deborah Chismar, Freeport-McMoRan Sierrita, Inc.
From: Steven W. Corell, R.G., Clear Creek Associates
Subject: Performance Review for 2015, Numerical Model Update through 2015 & Predictive Simulation
Date: April 26, 2016

REGISTERED GEOLOGIST
CERTIFICATE NO.
30999
STEVEN W.
CORELL
Date Signed 4/26/2016
ARIZONA, U.S.A.
Expires 03 / 31 / 2018

## 1 INTRODUCTION

This report has been prepared for Freeport-McMoRan Sierrita Inc. (Sierrita), to document the 2015 Basin-Fill Model and predictive sulfate transport simulation. The model is used to simulate water levels and sulfate distribution under the groundwater pumping program conducted for the Mitigation Plan (Clear Creek Associates, 2013) and to predict future plume migration under various expected conditions.

Model construction, calibration, and updates are described in previous reports; Hydro Geo Chem, Inc. (2007), Hydro Geo Chem, Inc. and Clear Creek Associates (2010), and Clear Creek Associates (2014). The model is constructed using the numerical code MODFLOW-SURFACT version 3.0 (HydroGeoLogic, Inc., 1996) for groundwater flow and transport simulations. MODFLOW-SURFACT is based on the U.S. Geological Survey modeling program MODFLOW (McDonald and Harbaugh, 1988). The Graphical User Interface (GUI) code "Groundwater Vistas" version 6.79 Build 18 (Environmental Simulations, Inc, 2015) was used to run simulations and evaluate model output. The Groundwater Vistas GUI allows for ease of model construction, execution, and processing of model output. The MODFLOW-SURFACT program is a 3D finite-difference flow and transport modeling code with significant improvements over public-domain versions of MODFLOW. MODFLOW-SURFACT addresses re-wetting of drained cells, handling of pumping wells, solute mass balance problems, numerical dispersion and oscillations, and impacts of transient flow storage effects on transport (HydroGeoLogic, Inc., 1996).

## 2 NUMERICAL MODEL REVISIONS

Specific revisions for the 2015 Basin-Fill Model include:

1. Groundwater pumping specifications for Sierrita were updated through year 2015 based on information provided by Sierrita.
2. Groundwater pumping specifications for the Town of Sahuarita, Sahuarita School District, Green Valley Domestic Water Improvement District, Community Water Company, and Sahuarita Water Company have been updated through year 2014 based on Arizona Department of Water Resources (ADWR) Annual Reports.

3. Groundwater pumping specifications for Rancho Sahuarita have been updated through year 2015 based on ADWR Annual Reports.
4. Groundwater pumping specifications for municipal supply and private wells not listed in (1) above are current through year 2013, the most recent year available in ADWR's Registry of Groundwater Rights (ROGR) groundwater pumping database (ADWR, 2016). The 2013 groundwater pumping rates for other pumping wells are carried forward through year 2015.
5. Sierrita Tailings Impoundment (STI) seepage has been updated through year 2014 based on a Montgomery & Associates water balance (Montgomery & Associates, 2016). The 2014 STI seepage rate is carried forward to year 2015.
6. Sulfate concentration targets have been updated through 4th Quarter 2015,
7. Groundwater level targets have been updated through 4th Quarter 2015,
8. Groundwater level targets are sub-divided into two Groups[1] for statistical analysis,
    a. Group No. 1, Includes wells both inside and outside the Area of Emphasis[2] that are not part of the Post-Implementation Groundwater Monitoring Plan (Clear Creek Associates, 2013), but that have historical or current groundwater level data collected primarily by non-Sierrita sources (e.g., ADWR), although some historical data were collected by Sierrita , and
    b. Group No. 2, Includes monitor wells located in the Area of Emphasis that have water levels measured pursuant to the Post-Implementation Groundwater Monitoring Plan.Water levels at the IW, FFS, MC, and PS wells are not included in Group 2 as these are generally dynamic water levels.

## 2.1 STI Seepage Update

The STI seepage estimate has been updated for 2014 for the current study. Montgomery & Associates (2016) used the water balance method to estimate the amount of seepage from the STI for year 2014. The water balance method calculates annual seepage from the STI to the basin-fill aquifer as the difference between the sum of all water inputs and the sum of outflows and water retained. Water inputs include water delivered to the STI in tailing slurry, precipitation, and surface water discharge to the STI. Water outflows include tailing water reclaimed from the STI, evaporation, water retained in the tailing material and seepage from the tailing.

**Table 1** shows the values for each component of the water balance. Water delivered to and reclaimed from the STI is estimated by accounting for the annual ore milling rate, operational reclaim rate, and climate related variables. For the predictive simulation, years 2015 – 2088, the annual volumes of

[1] Groundwater Vistas allows for each groundwater level target to have a unique Group number. Each Group can be summarized separately when computing calibration statistics in Groundwater Vistas.

[2] The Area of Emphasis (AOE) is the area in the vicinity of the STI, including areas surrounding the current extent of the sulfate plume. The AOE is bounded by UTM 3,519,700 on the south, UTM 3,531,900 on the north, the no-flow boundary on the west, and UTM 503,700 on the east (see **Figure 1**).

water delivered and reclaimed are estimated as the 10-year average of 2005-2014. The 2005-2014 10-year average value of seepage from the impoundment is 8,656 acre-feet per year. Pre-2005 values for seepage are taken from ELMA (2007b). Water delivery is assumed as zero beginning in 2089, the year after the end of tailing slurry application to the STI.

## 2.2 Groundwater Pumping 2014-2015

Groundwater pumping is the primary groundwater sink in the 2015 Basin-Fill Model domain. Groundwater pumping rates for all Sierrita mitigation extraction and water supply wells were updated through 2015 from data provided by Sierrita. Rancho Sahuarita groundwater pumping rates were also updated through year 2015 based on ADWR Annual Reports. The 2015 Basin-Fill Model update includes 2014 groundwater pumping rates for the Green Valley Domestic Water Improvement District, Town of Sahuarita, Sahuarita School District, Community Water Company, and Sahuarita Water Company obtained from ADWR Annual Reports. The 2015 pumping rates for these water providers were unavailable and 2014 rates are carried forward to year 2015. All other wells are current through year 2013. Pumping data for 2014 and 2015 for all other wells are currently unavailable so the 2013 values were carried forward to years 2014 and 2015. **Tables 2** and **3** list well locations and pumping rates used in the 1941-2015 transient model. **Table 2** lists well locations and pumping rates taken from the ADWRs Tucson Active Management Area (AMA) model (Mason and Bota, 2006). **Table 3** lists well locations and pumping rates for 1971 to 2015 taken from various sources. Pumping information from various sources is incorporated into the 2015 Basin-Fill Model as follows:

- For years 1940 to 1970 pumping estimates from the 2006 ADWR Tucson AMA model are applied exclusively.
- For years 1971 to 1983 pumping rates from ELMA (2007a) were applied.
- For years 1984 to 2006 pumping rates are applied from ELMA (2007a) or from the ADWR's ROGR database for wells and/or years not included in ELMA (2007a). Pumping rates from 2007 to 2015 are from Sierrita, ADWR's ROGR database, and ADWR Annual Reports.

## 2.3 Hydraulic Parameter Adjustments

Specific model changes and hydraulic parameter adjustments were conducted during a limited calibration to achieve a better match between observed and computed heads, the adjustments included:

1. A steady-state stress period was added to the 2015 Basin-Fill Model. The steady-state stress period represents 1940 when groundwater pumping is relatively limited.
2. Model hydraulic conductivity values were generally increased to lower model calculated heads.

3. To improve calibration of targets near the STI, STI recharge was sub-divided into 2 recharge zones representing the northern 1/3 of the STI and the southern 2/3 of the STI. Seepage in the southern STI recharge zone was increased and seepage in the northern STI recharge zone was decreased. The result was a significant improvement in matching targets at MH-16E, MH-15W, MH-3, and MH-11.
4. Time-varying specified head boundaries are located on the north, south, and east model boundaries. Values assigned to the southern and eastern boundaries are derived from ADWR's 2013 Tucson AMA models (Mason and Bota, 2006 and Mason and Hipke, 2013). During this update, post – 2000 values were initially assigned to the northern time-varying specified head boundary based on available measured water level hydrographs in the area near the model boundary, which indicated a rising trend from the mid 2000's to current time. The result of this change to the model was non-calibration of most of the model targets in the northwest portion of the model. The deterioration of the calibration suggests that the rising water level trends observed near the north model boundary from the mid 2000's forward may be influenced by stresses located outside of the model domain, and therefore, not simulated in the model. Ultimately, reliance on the hydrographs was dropped and the north model boundary condition was set at 2005 values forward to year 2015, as this allowed a better fit to observed hydrographs in the area of the plume; which is the primary area of interest.
5. Adjustment of model storage terms (storage coefficient and specific yield), generally lowered to increase drawdown at wells.

# 3 TRANSIENT SIMULATION 1941-2015

The 2015 Basin-Fill Model simulated groundwater level contours for the fourth quarter of 2015 are shown on **Figure 1**. Also shown on **Figure 1** are model calculated residuals for the fourth quarter of 2015, negative residuals indicate model computed heads are too high, positive residuals indicate model computed heads are too low. The current update of the basin-fill model under-simulates recent observed drawdowns due to mitigation plan pumping. Model computed residuals for the fourth quarter of 2015 (**Figure 1)** show that the model has bias toward under simulating observed water levels. Model calculated residuals range from -19.5 meters to +1.8 meters (-64 feet to + 6 feet). A series of model hydrograph transects in the vicinity of the STI were prepared to assess the hydraulic calibration. The location of the model hydrograph transects are shown on **Figure 2**. Selected well hydrographs are shown on **Figures 3** to **17**. Some general observations from the model hydrographs include:

1. **HYDROGRAPH SECTION 1:**
    a. Model hydrograph MH-16E (**Figure 3**) shows a significant improvement in matching historic target data.
    b. The model hydrograph of well MO-2007-6A (**Figure 4**) shows a general match with recent measured data however, under-estimates recent water level declines due to mitigation pumping.
    c. The model hydrograph of well GV-2-GVDWID (**Figure 5**) indicates a generally good match with recent water level trends.
2. **HYDROGRAPH SECTION 2:**
    a. The model hydrograph of well MH-15W (**Figure 6**) shows a significant improvement in matching historic target data.
    b. Model hydrographs MH-13B, MO-2007-5B, and MO-2009-1 (**Figures 7, 8**, and **9**) follow observed water level trends however, the model over-estimates water levels about 5 meters and under-estimate recent drawdown from Mitigation Plan pumping.
3. **HYDROGRAPH SECTION 3:**
    a. Model hydrograph of well MH-3 (**Figure 10**) generally follows observed water level trends however; the model over-estimates water levels about 10 meters.
    b. Model hydrographs of wells MH-11 and MO-2007-4B (**Figures 11** and **12**) generally follow observed water level trends however, the model over-estimates water levels about 5 meters and also under-estimate recent drawdown from Mitigation Plan pumping.
4. **HYDROGRAPH SECTION 4:**
    a. Model hydrographs of wells ESP-2 and MH-26B (**Figures 13** to **15**) generally follow observed water level trends however, the model over-estimates water levels about 5 meters and also under-estimate recent drawdown from Mitigation Plan pumping.
    b. Model hydrographs MO-2007-3C and MO-2007-1C (**Figures 16** and **17**) also generally follow observed water level trends, however, the model over-estimates water levels about 5 meters.

The model hydrographs shown on **Figures 3** to **17** indicate that the 2015 Basin-Fill Model generally follows observed water level trends, but generally over-simulates recent observed water levels, and under-simulates recent observed drawdown due to mitigation plan pumping. The scaled Root Mean Square (RMS) error for Groups 1 and 2 targets combined is 4.3 percent, and 5.2 percent for the Group 2 targets (Mitigation Order monitor wells). The following **Table** provides a summary of target statistics for the current 1941 through 2015 transient simulation.

**Summary of Target Statistics – 1941 to 2015**

| *Parameter* | *Simulation-1941-2015 Group 1 and 2 (meters)* | *Simulation-1941-2015 Group 2 (meters)* |
|---|---|---|
| ***Residual Mean*** | -4.76 | -7.47 |
| ***Residual Std. Deviation*** | 7.77 | 5.88 |
| ***Absolute Residual Mean*** | 7.17 | 8.09 |
| ***RMS Error*** | 9.12 | 9.51 |
| ***Minimum Residual*** | -65.6 | -29.01 |
| ***Maximum Residual*** | 37.1 | 24.97 |
| ***Range of Observations*** | 213.6 | 182.47 |
| ***Scaled Res. Std. Dev.*** | 0.036 | 0.032 |
| ***Scaled Abs. Mean*** | 0.034 | 0.044 |
| ***Scaled RMS*** | 4.3% | 5.2% |
| ***No. of Observations*** | 7722 | 4321 |

The 2015 Basin-Fill Model simulated sulfate concentration contours for 2015 are compared with the measured 250 mg/L concentration contour from the fourth quarter of 2015 on **Figure 18**. The 2015 Basin-Fill Model simulates the general shape of the sulfate plume. The model is unable to match measured concentrations at every location; however, the model does simulate the approximate current extent of the sulfate plume.

Selected chemographs of simulated versus measured sulfate concentrations at locations near the edge and within the plume are shown on **Figures 19** to **30**. The chemographs show how the transport model represents important features of the plume including:

1. Sulfate plume arrival time is accurately simulated at monitor well CW-7 (**Figure 19**) located along the eastern edge of the plume. The modeled sulfate plume at well ESP-4 (**Figure 20**) arrives too early and is also over-simulated.
2. The chemograph of well I-10 (**Figure 21**) shows that the model underestimates the sulfate concentration near the Twin Buttes pit.
3. The northern migration of the sulfate plume is represented by chemographs at wells M-20 (**Figure 22**), MO-2007-1A (**Figure 28**), MO-2007-1B (**Figure 29**), and MO-2007-1C (**Figure 30**).
4. Sulfate concentrations within the core of the plume are generally well represented as shown on chemographs for wells MH-11 (**Figure 23**), MH-12 (**Figure 24**), MH-13A (**Figure 25**), MH-13B (**Figure 26**) and MH-13C (**Figure 27**).

# 4 PREDICTIVE SIMULATION UNDER CONTINGENCY PLAN PUMPING RATES

## 4.1 Numerical Model

The 2015 Basin-Fill Model was used to simulate future plume migration under the pumping rates in the Contingency Plan (Clear Creek Associates, 2016). The objective of the predictive modeling is to assess the adequacy of pumping at controlling future sulfate plume migration. The 2015 Basin-Fill Model includes the simulation of groundwater pumping at the Interceptor Wells (IW), Focused Feasibility Study wells (FFS), Plume Stabilization (PS), and Mass Capture (MC) wells under the Mitigation Order, and future pumping for water supply, agricultural, and mining uses in the area of the plume.

## 4.2 Predictive Simulation Pumping

***Contingency Plan Pumping***

**Table 4** summarizes the well pumping specifications for the predictive simulation under the Contingency Plan pumping assumptions.

***Sierrita Pumping***

The predictive simulation includes estimates of future pumping and STI seepage. The predictive simulation was run to year 2115. **Table 4** summarizes pumping rates for the FFS, IW, PS, and MC wells.

***Estimates of Non-Sierrita Pumping***

Estimates of future pumping at non-Sierrita wells within the 2015 Basin-Fill Model domain were obtained from the Upper Santa Cruz Providers and Users Group (USCPUG, 2012). The USCPUG provides estimates of future pumping for mining, agricultural, municipal water providers, golf courses, and other water users through 2035. The USCPUG (2012) also estimates pumping for potential major users such as State Trust land use, and FICO residential development.

***Future STI Seepage***

The STI seepage rate for the predictive model has been estimated for input to the 2015 Basin-Fill Model as described in Clear Creek Associates (2014). The future STI seepage estimate does not account for a short-term decrease in slurry application during the curtailment covered by the Contingency Plan. Therefore, the amount of STI seepage included in the model is over-estimated during the presumed 5-year curtailment period, which adds a measure of conservatism to the model. The end of slurry application to the STI assumes drain-down begins after year 2088 when the STI is closed and tailing

delivery ends. The drain-down simulation for a tailing thickness of 263 meters (863 feet) predicts that seepage will decrease to about 50 percent of its original rate 18 years after the start of drain-down, and to about 10 percent of its starting rate in 100 years. The predictive simulation assumes that drain-down begins in year 2089.

### 4.3 Predictive Model Results – Sulfate Plume Maps

A series of maps were prepared showing the extent of the maximum concentration sulfate plume over time. Model cells with a saturated thickness of less than 7.5 meters (25 feet) are not included in the analysis. Showing the extent of the sulfate plume using the maximum concentration of the three model layers provides a conservative estimate of the sulfate plume with respect to the plume extent estimated from regional water quality sampling.

The extent of the simulated sulfate plume over time (2020 to 2115) for the predictive simulation under Contingency Plan pumping rates (Table 4) is shown on **Figure 31**. The predicted sulfate plume maps in 20-year increments based on the 2015 Basin-Fill Model are shown on **Figures 32** to **37**. The predictive simulation under Contingency Plan pumping conditions shows a portion of the plume located northeast of the PS well-field (**Figure 33**). A small residual plume located northeast of the PS well-field remains until year 2080 (**Figure 35**). The predictive simulation indicates that the areal extent of this residual down-gradient plume decreases over time and the sulfate plume is not predicted to impact public or private drinking water supply wells.

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## FIGURES

## TABLES

# FIGURES

17S 12E
17S 13E
17S 14E
18S 12E
18S 13E
18S 14E
19S 12E
19S 13E
19S 14E
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3000
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3060
3080
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**Legend**

- '2015 Model Calculated Residuals (feet)
- Area of Emphasis
- 2015 Model Calculated Groundwater Table (ft. amsl)
- Sierrita Tailings Impoundment
- Model Extents

0 0.25 0.5 1 Miles

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**FIGURE 1**

**2015 CALCULATED GROUNDWATER TABLE CONTOURS AND RESIDUALS**

March 2016 swc

17S 12E
17S 13E
17S 14E
18S 12E
18S 13E
18S 14E
19S 12E
19S 13E
19S 14E

MO-2007-1A, -1B, -1C
MO-2007-3C
MH-26A, -26B, -26C
ESP-2
MH-25A, -25B, -25C
MO-2007-4B
MH-3
MH-11
MH-13B
MO-2007-5B
MO-2009-1
MH-15W
MH-16E
MO-2007-6A
GV-2-GVDWID

**Legend**

Hydrograph Section Targets

**Group 2 Water Level Targets**

Group 2 Mitigation Order Water Level Monitoring

Area of Emphasis

**Section Locations**

SECTION 1

SECTION 2

SECTION 3

SECTION 4

Sierrita Tailings Impoundment

0 0.25 0.5 1 Miles

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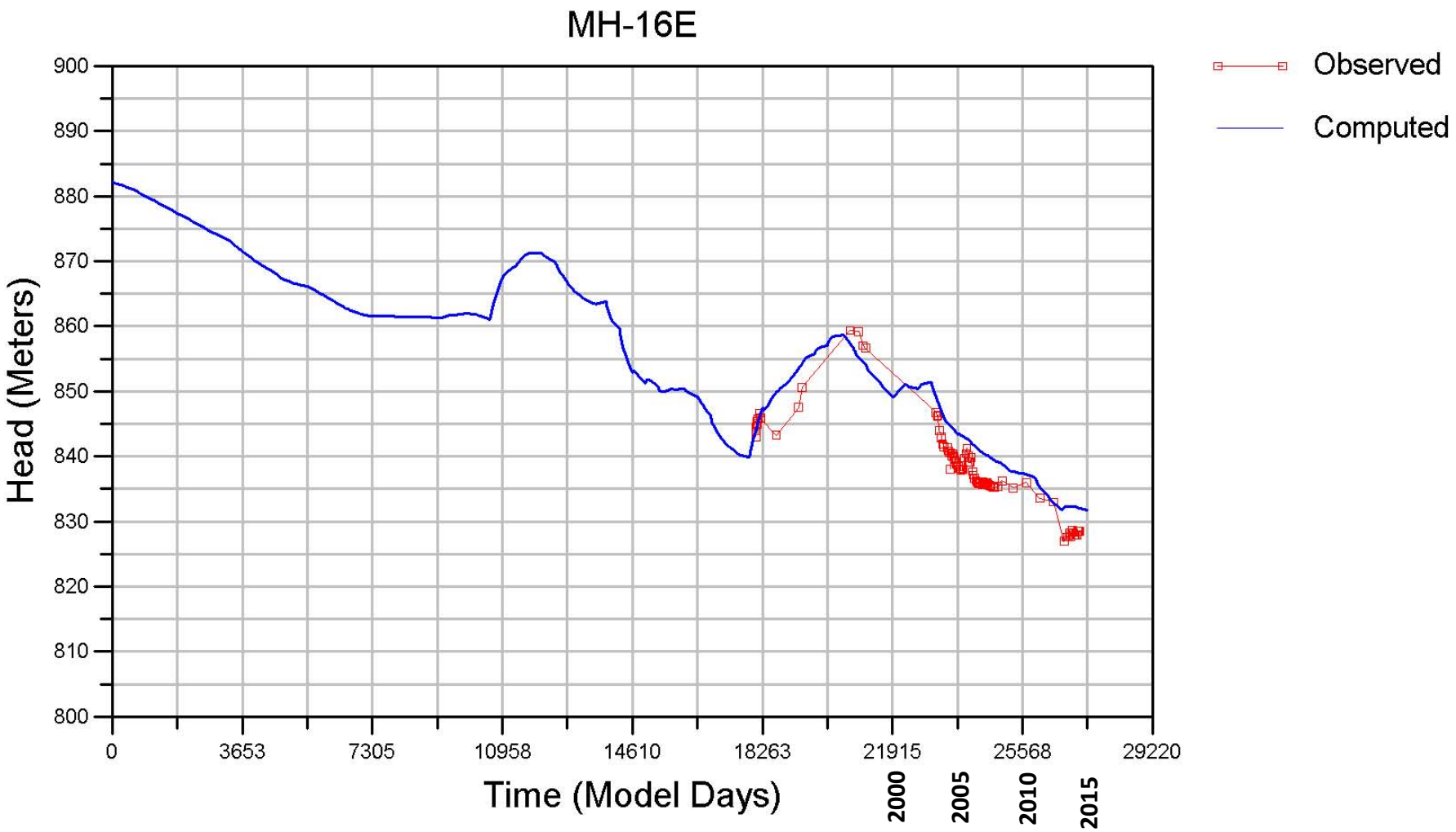
**FIGURE 2**

**LOCATION OF HYDROGRAPH SECTION TARGETS**

March 2016 swc

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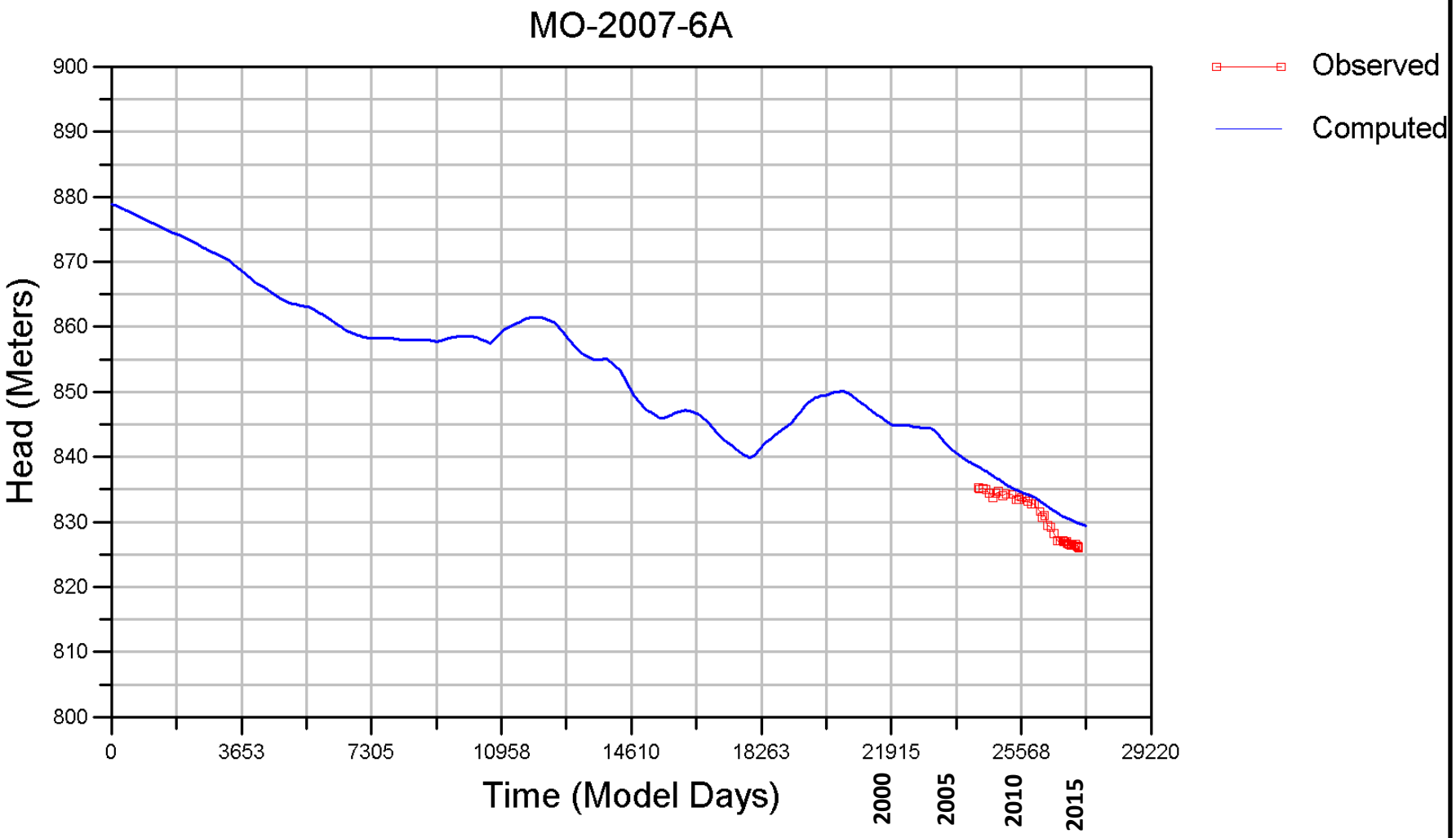
**HYDROGRAPH OF WELL MH-16E**
(Hydrograph Section 1, Model Layer 1)

| APPROVED | DATE 05/29/2016 | FIGURE 3 |
|---|---|---|

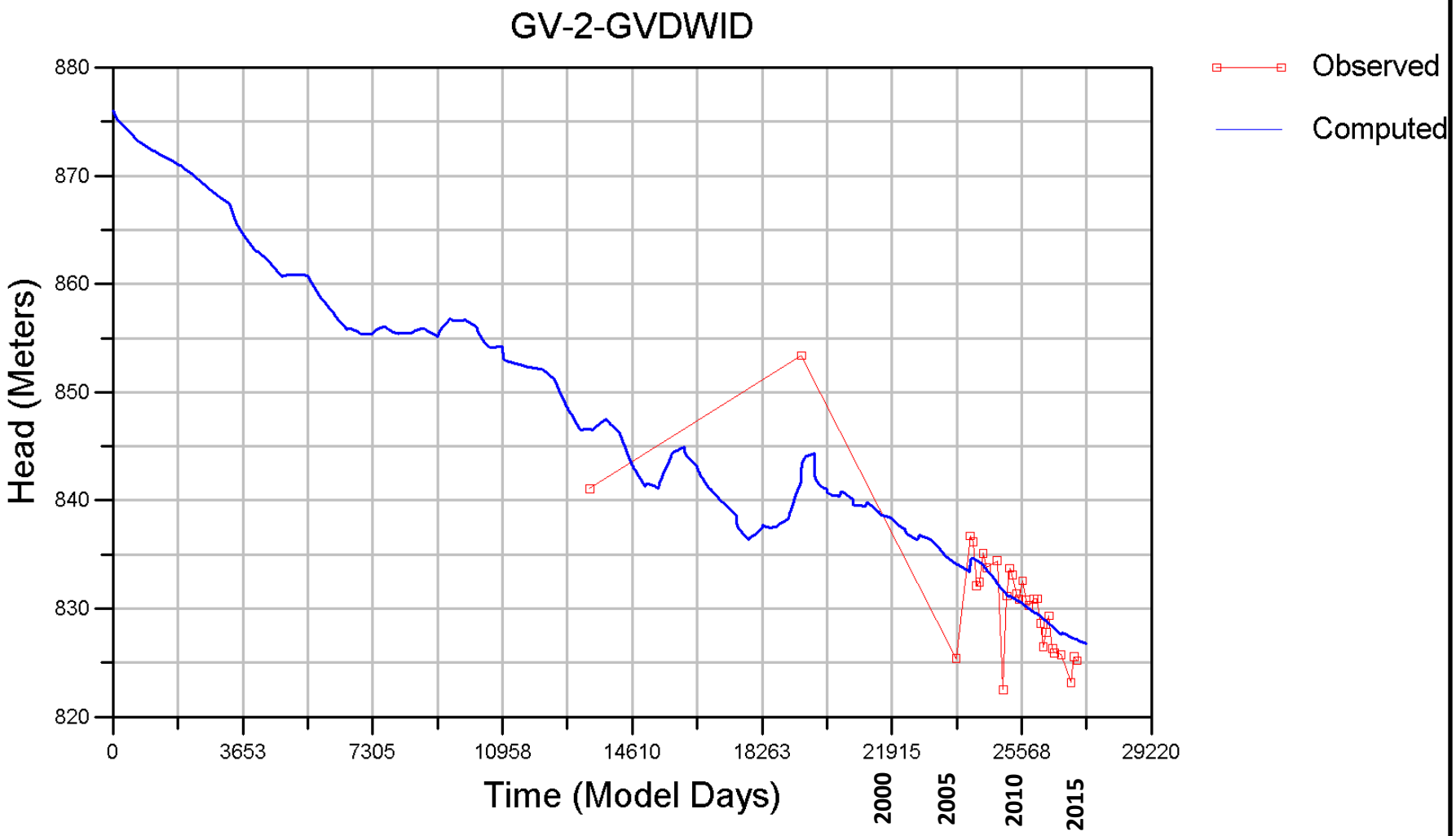



CLEAR CREEK ASSOCIATES

**HYDROGRAPH OF WELL MO-2007-6A**

(Hydrograph Section 1, Model Layer 1)

| APPROVED | DATE 05/29/2016 | FIGURE 4 |
|---|---|---|

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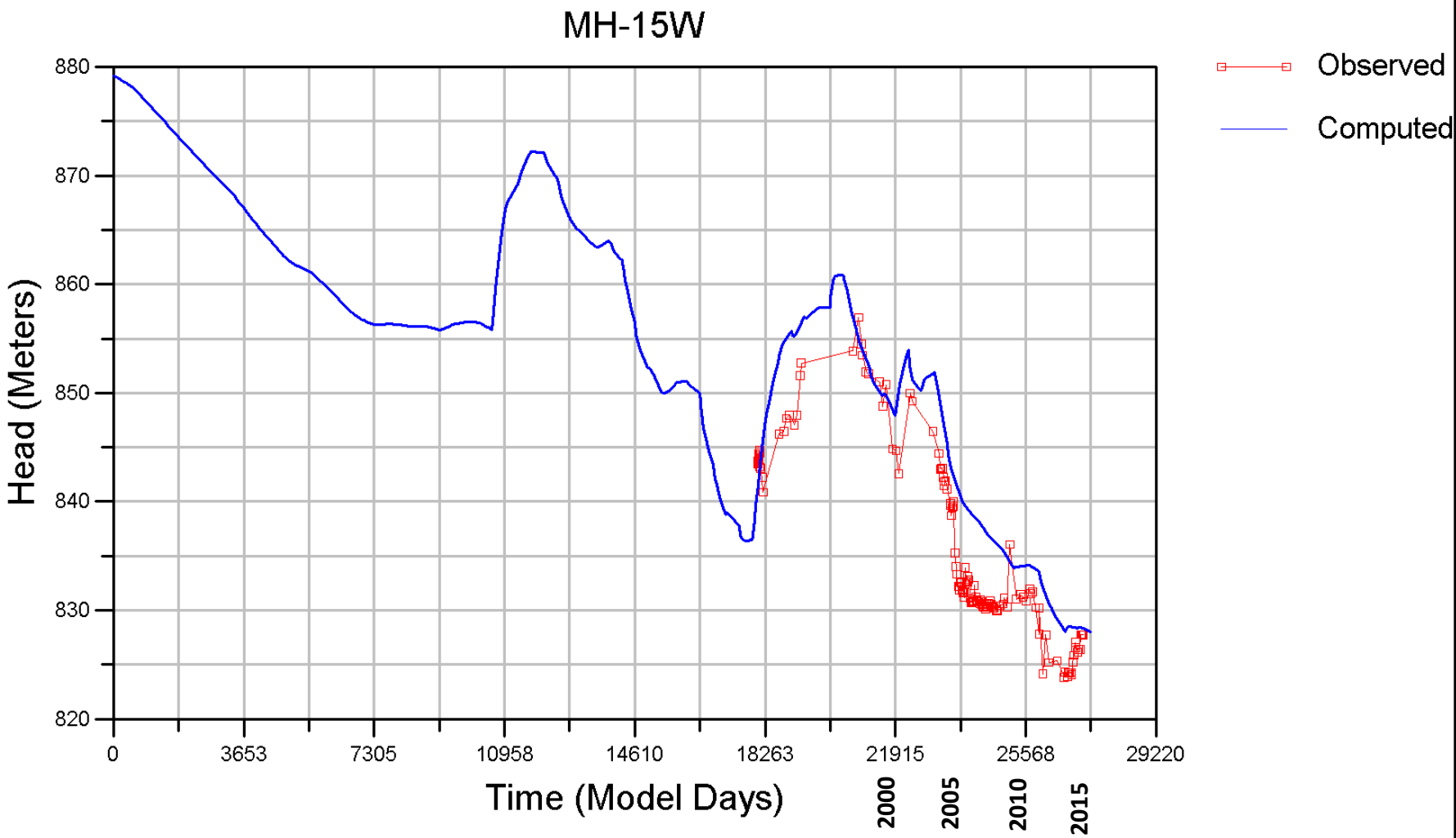
**HYDROGRAPH OF WELL GV-2-GVDWID**

(Hydrograph Section 1, Model Layer 1)

| APPROVED | DATE 05/29/2016 | FIGURE 5 |
|---|---|---|

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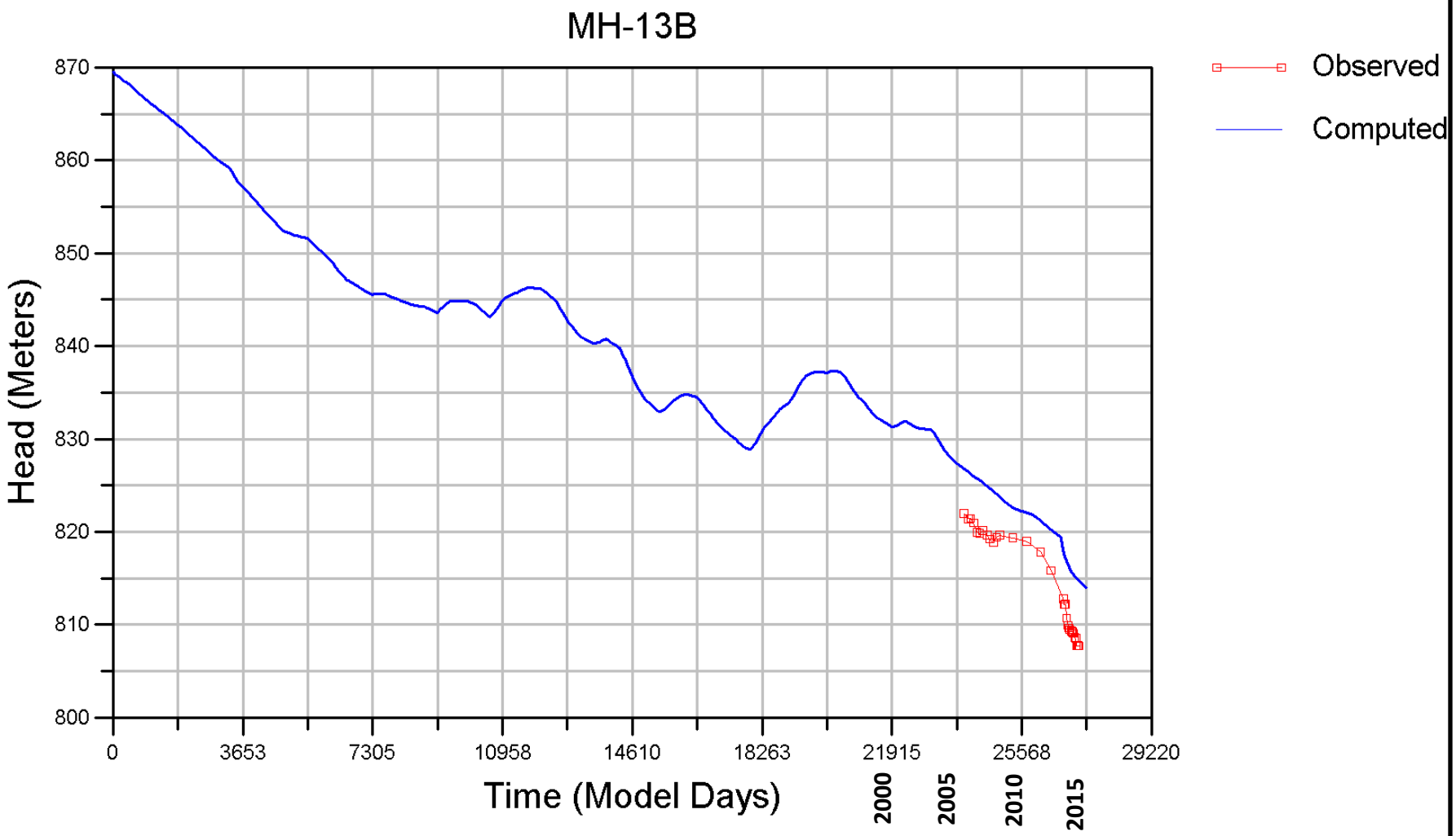
**HYDROGRAPH OF WELL MH-15W**
(Hydrograph Section 2, Model Layer 2)

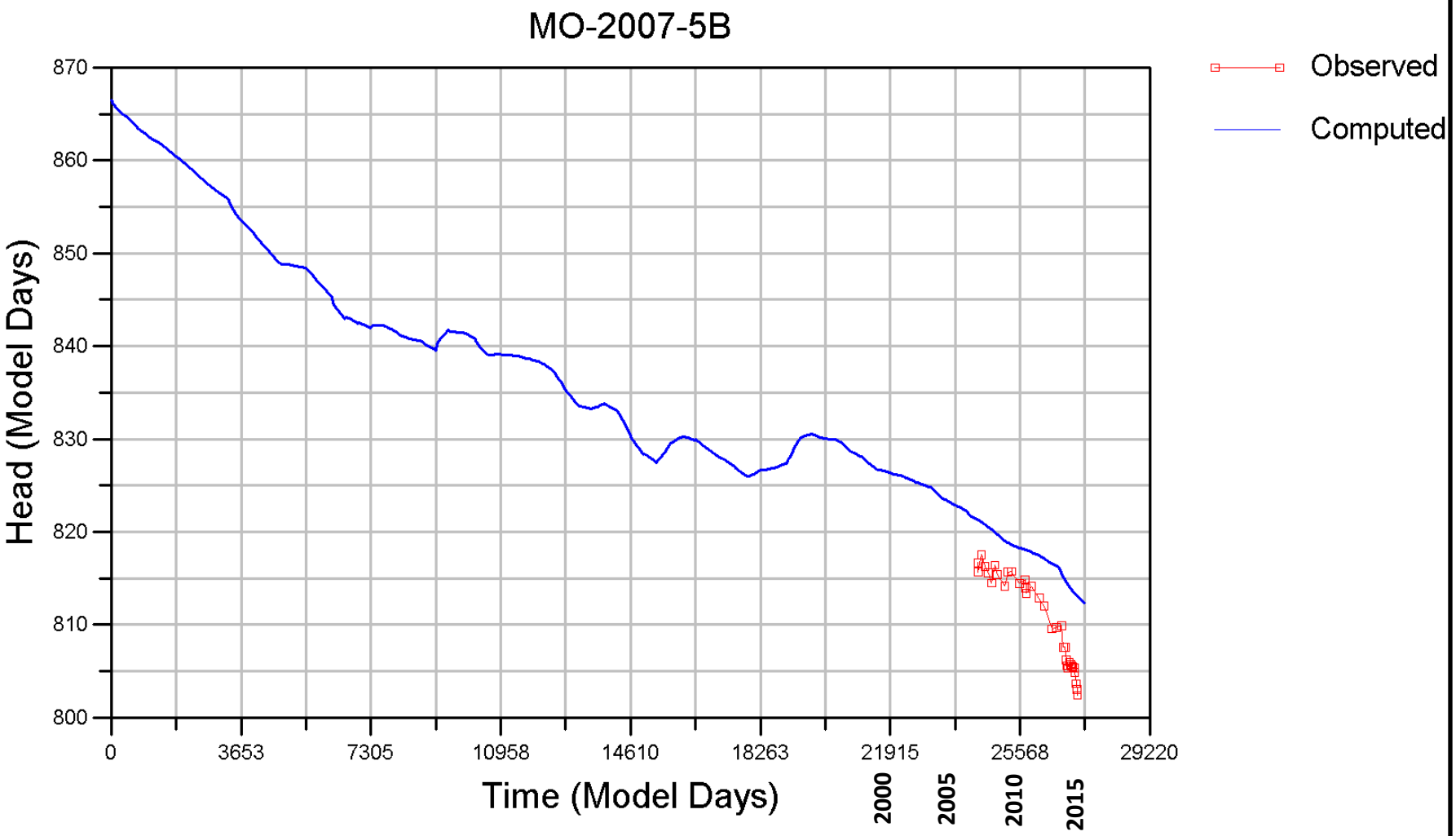
| APPROVED | DATE 05/29/2016 | FIGURE 6 |
|---|---|---|




CLEAR CREEK ASSOCIATES

**HYDROGRAPH OF WELL MH-13B**
(Hydrograph Section 2, Model Layer 2)

| APPROVED | DATE 05/29/2016 | FIGURE 7 |
|---|---|---|

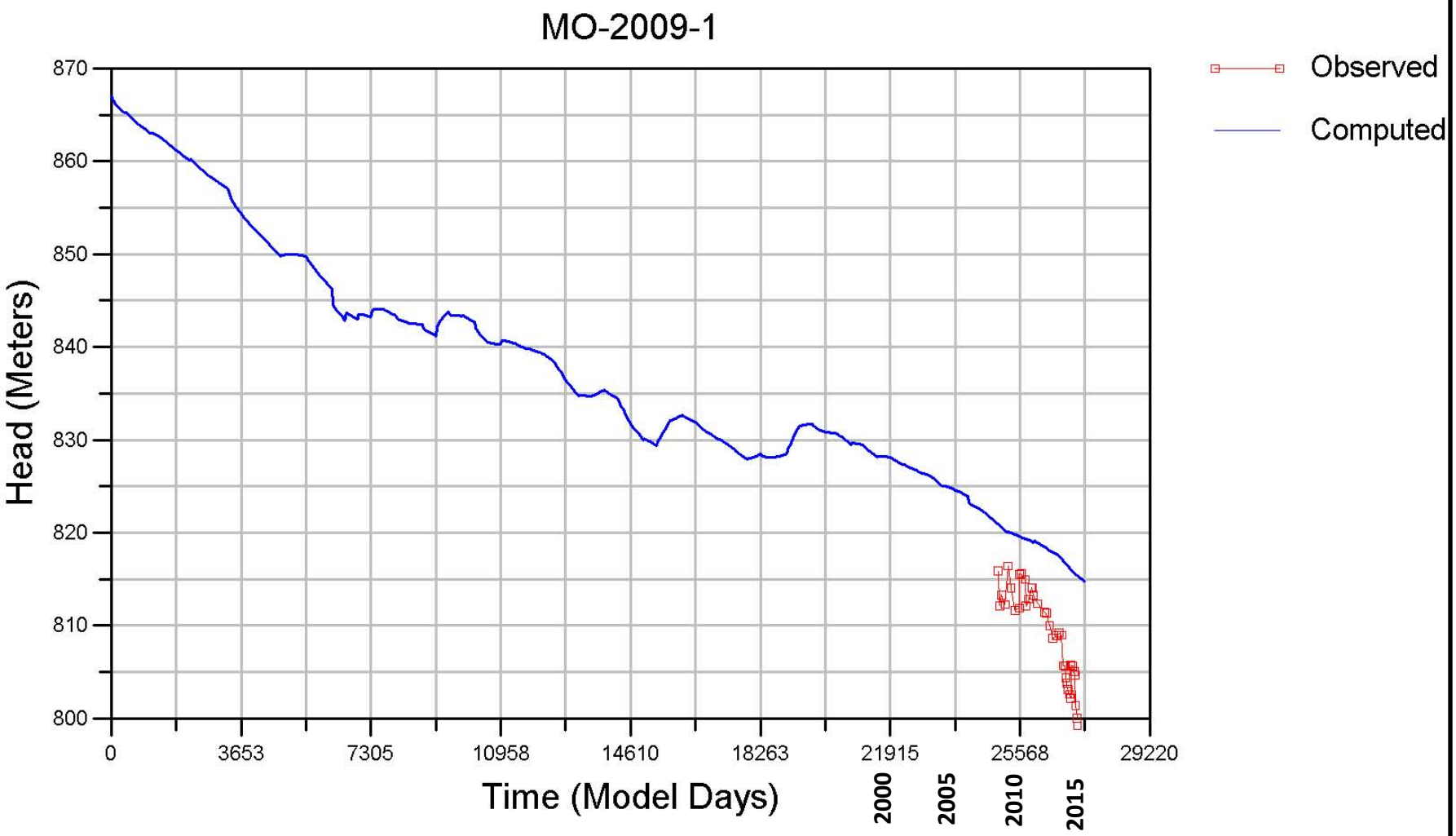



CLEAR CREEK ASSOCIATES

**HYDROGRAPH OF WELL MO-2007-5B**

(Hydrograph Section 2, Model Layer 2)

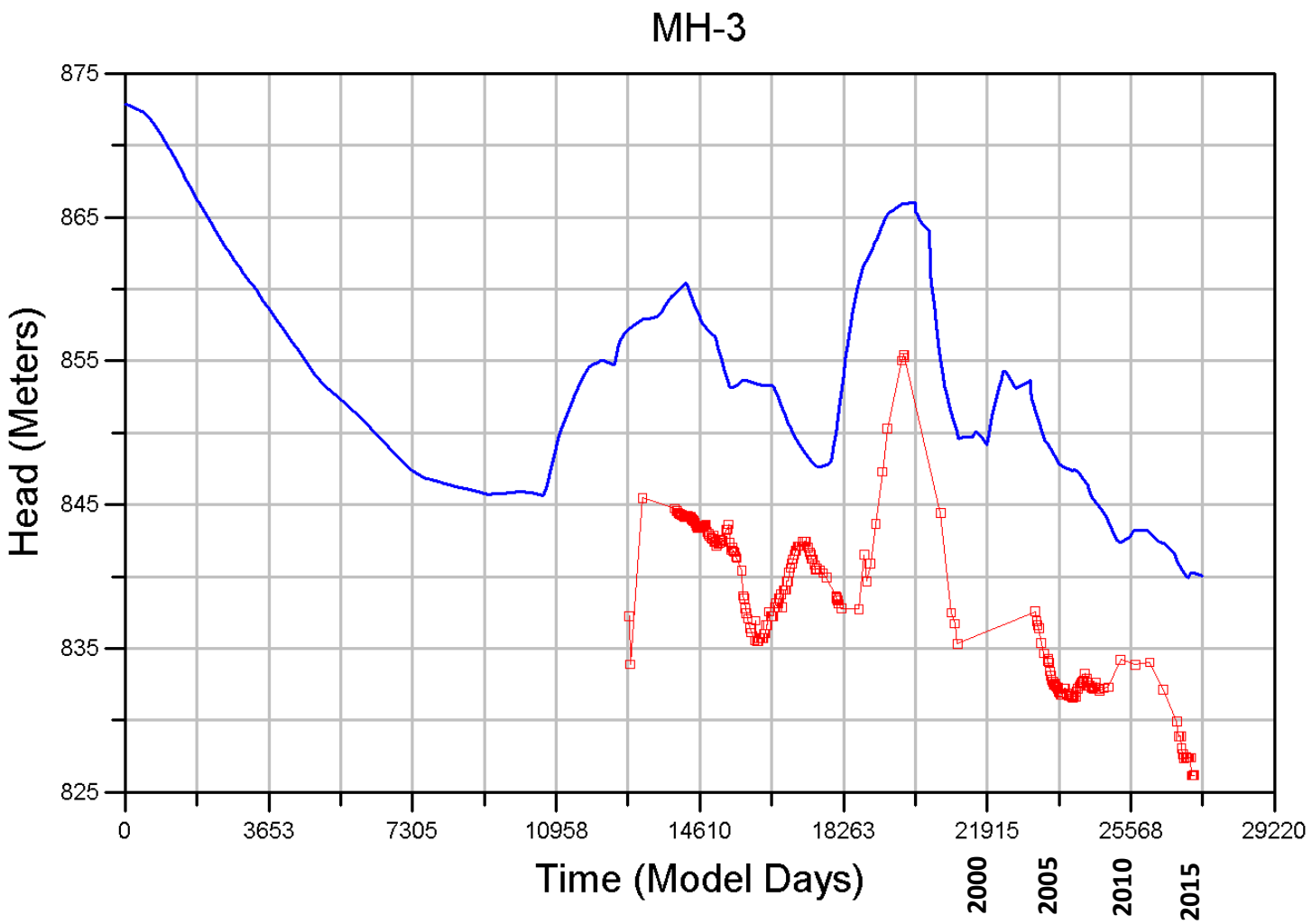
| APPROVED | DATE 05/29/2016 | FIGURE 8 |
|---|---|---|




CLEAR CREEK ASSOCIATES

**HYDROGRAPH OF WELL MO-2009-1**
(Hydrograph Section 2, Model Layer 2)

| APPROVED | DATE 05/29/2016 | FIGURE 9 |
|---|---|---|

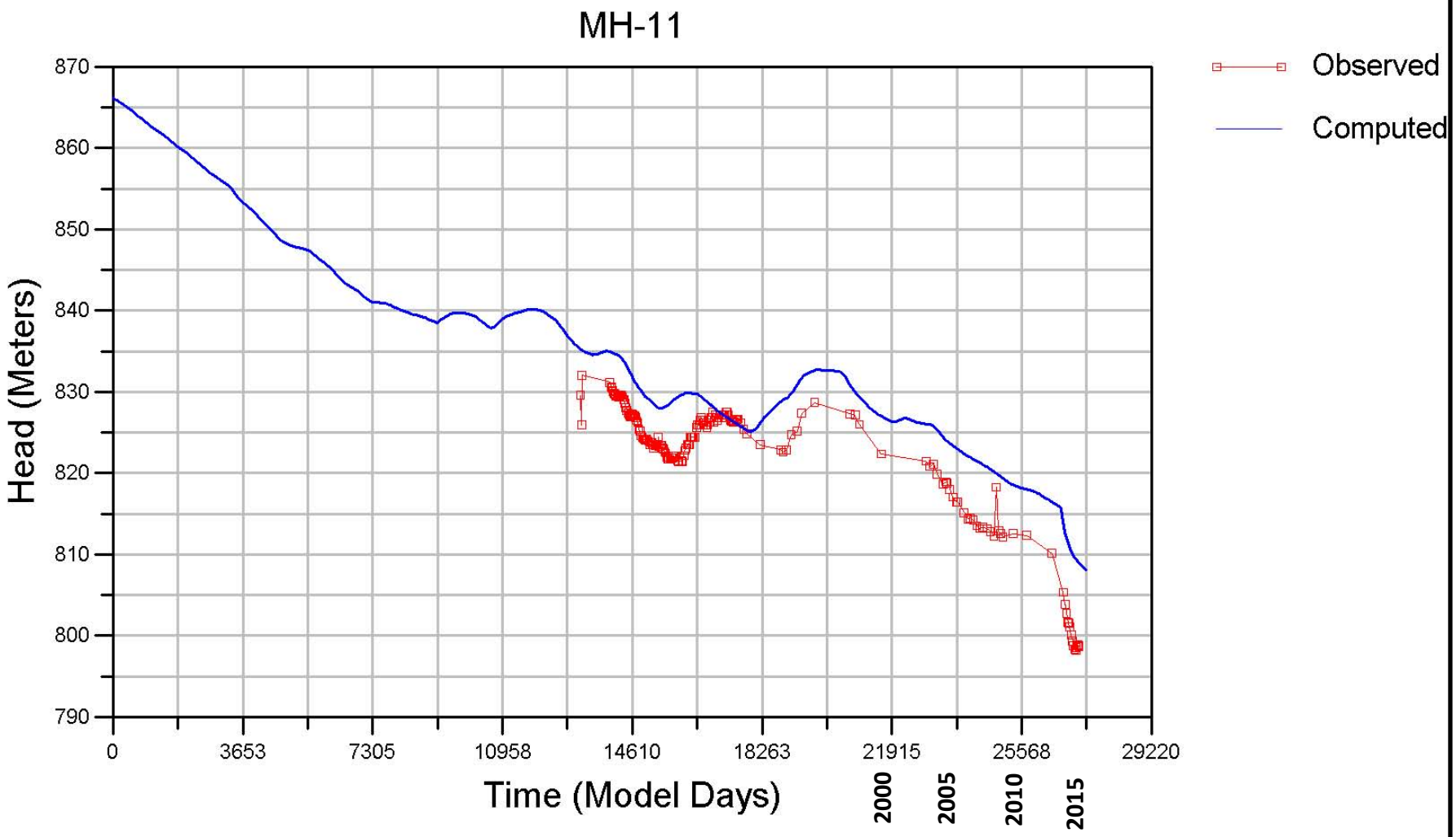



CLEAR CREEK ASSOCIATES

**HYDROGRAPH OF WELL MH-3**

(Hydrograph Section 3, Model Layer 3)

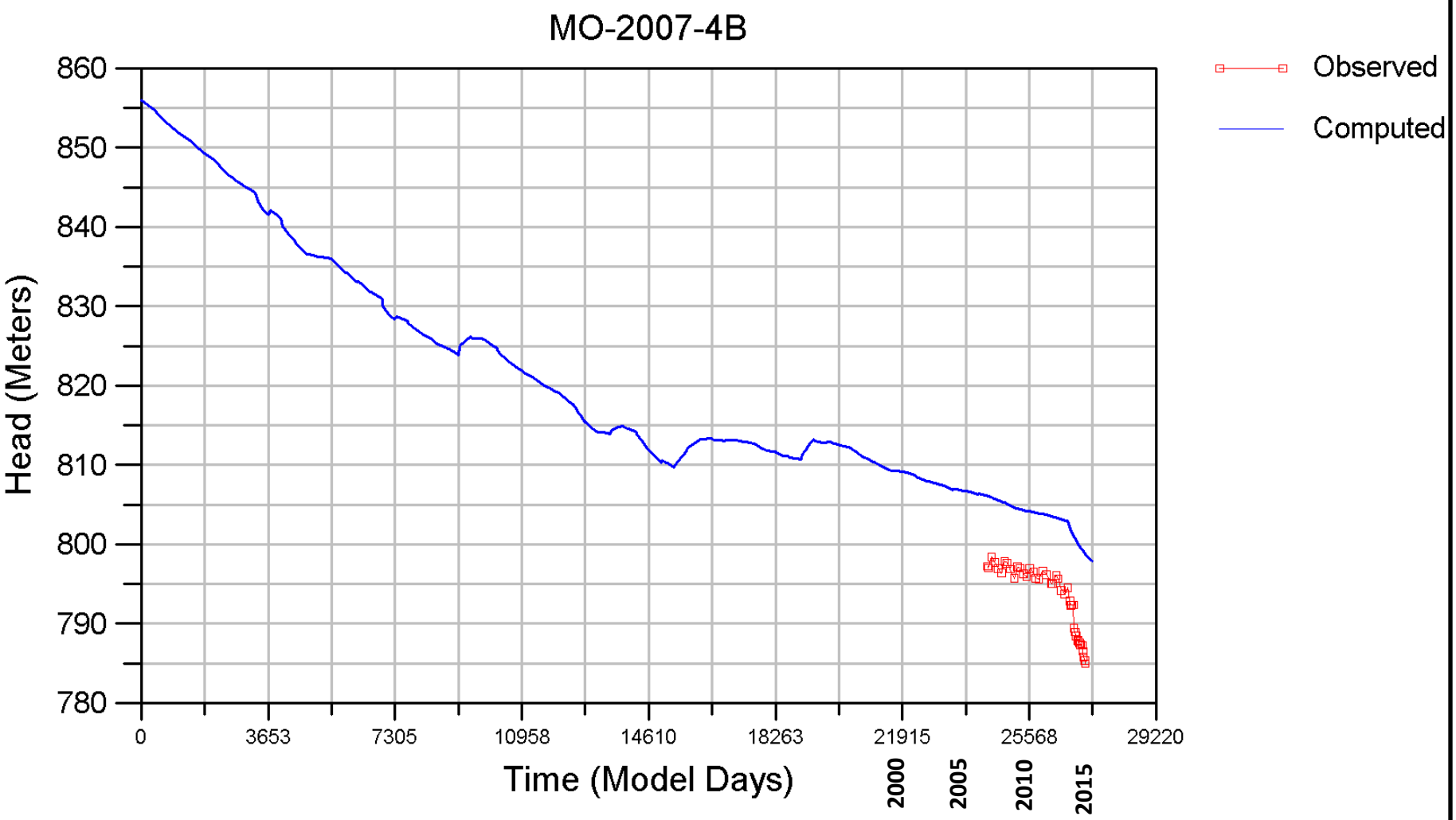
| APPROVED | DATE 05/29/2016 | FIGURE **10** |
|---|---|---|




CLEAR CREEK ASSOCIATES

**HYDROGRAPH OF WELL MH-11**
(Hydrograph Section 3, Model Layer 2)

| APPROVED | DATE 05/29/2016 | FIGURE 11 |
|---|---|---|

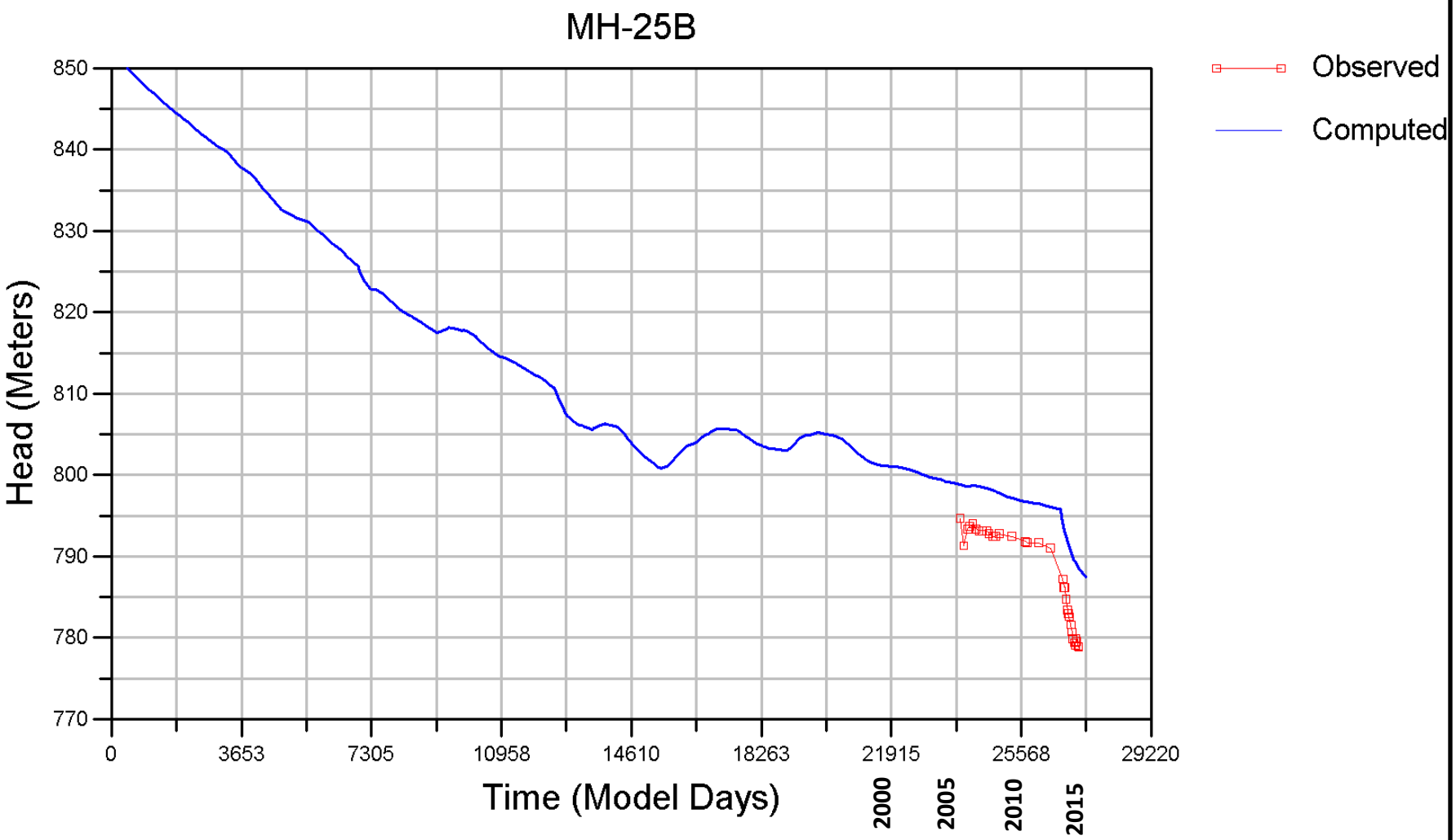



CLEAR CREEK ASSOCIATES

**HYDROGRAPH OF WELL MO-2007-4B**

(Hydrograph Section 3, Model Layer 2)

| APPROVED | DATE 05/29/2016 | FIGURE **12** |
|---|---|---|

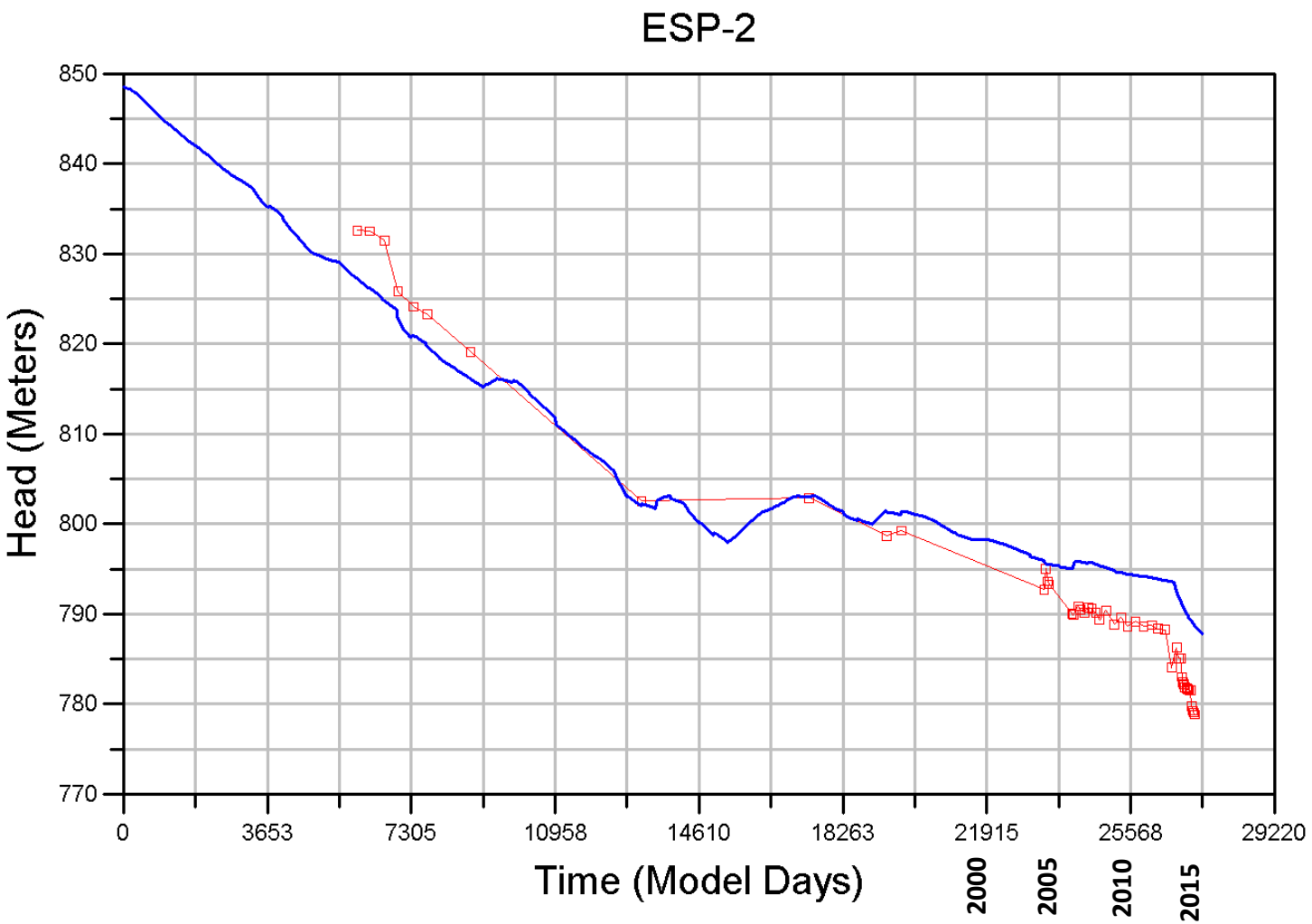



CLEAR CREEK ASSOCIATES

**HYDROGRAPH OF WELL MH-25B**

(Hydrograph Section 4, Model Layer 2)

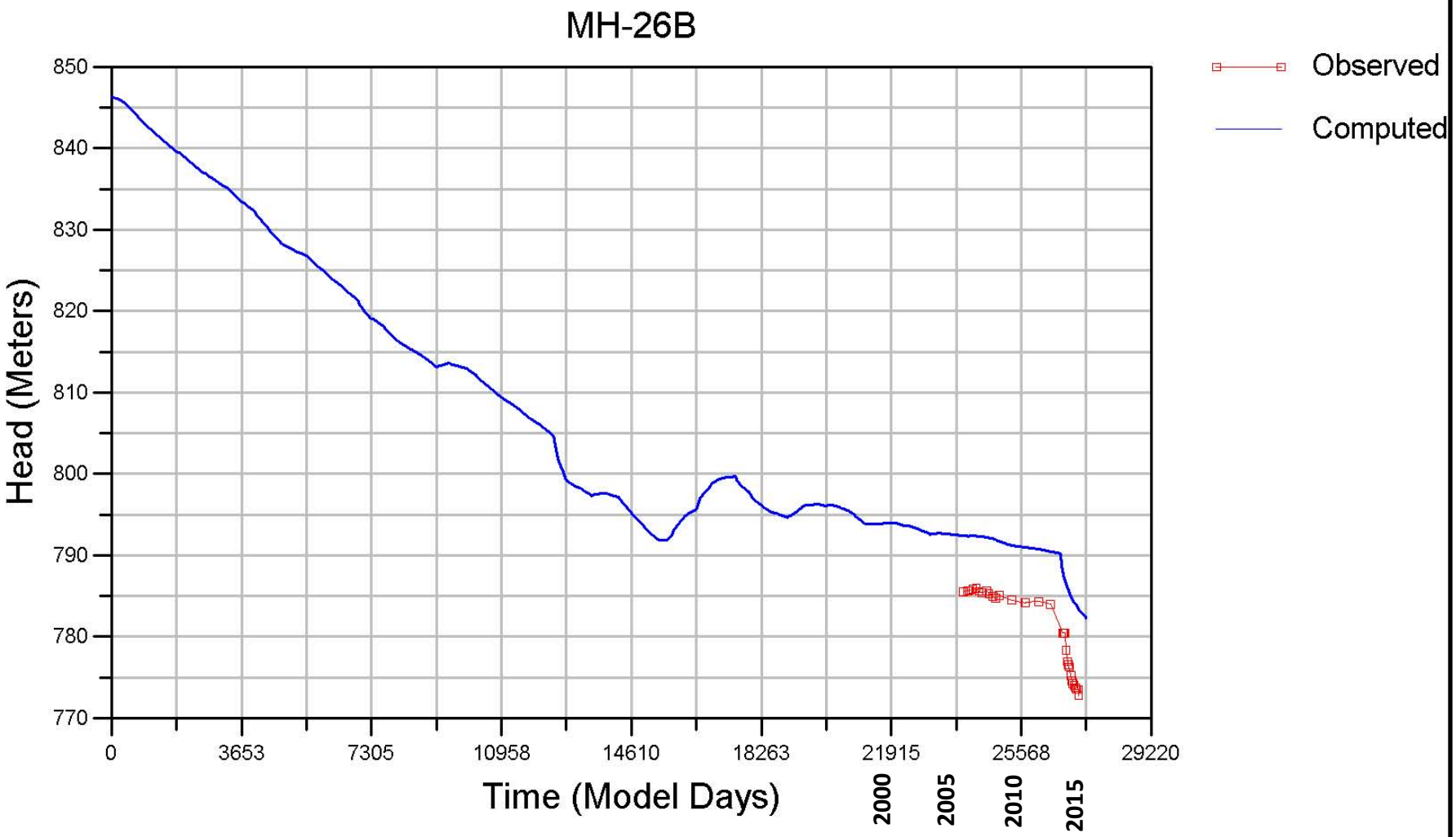
| APPROVED | DATE 05/29/2016 | FIGURE 13 |
|---|---|---|




CLEAR CREEK ASSOCIATES

**HYDROGRAPH OF WELL ESP-2**
(Hydrograph Section 4, Model Layer 1)

| APPROVED | DATE 05/29/2016 | FIGURE **14** |
|---|---|---|

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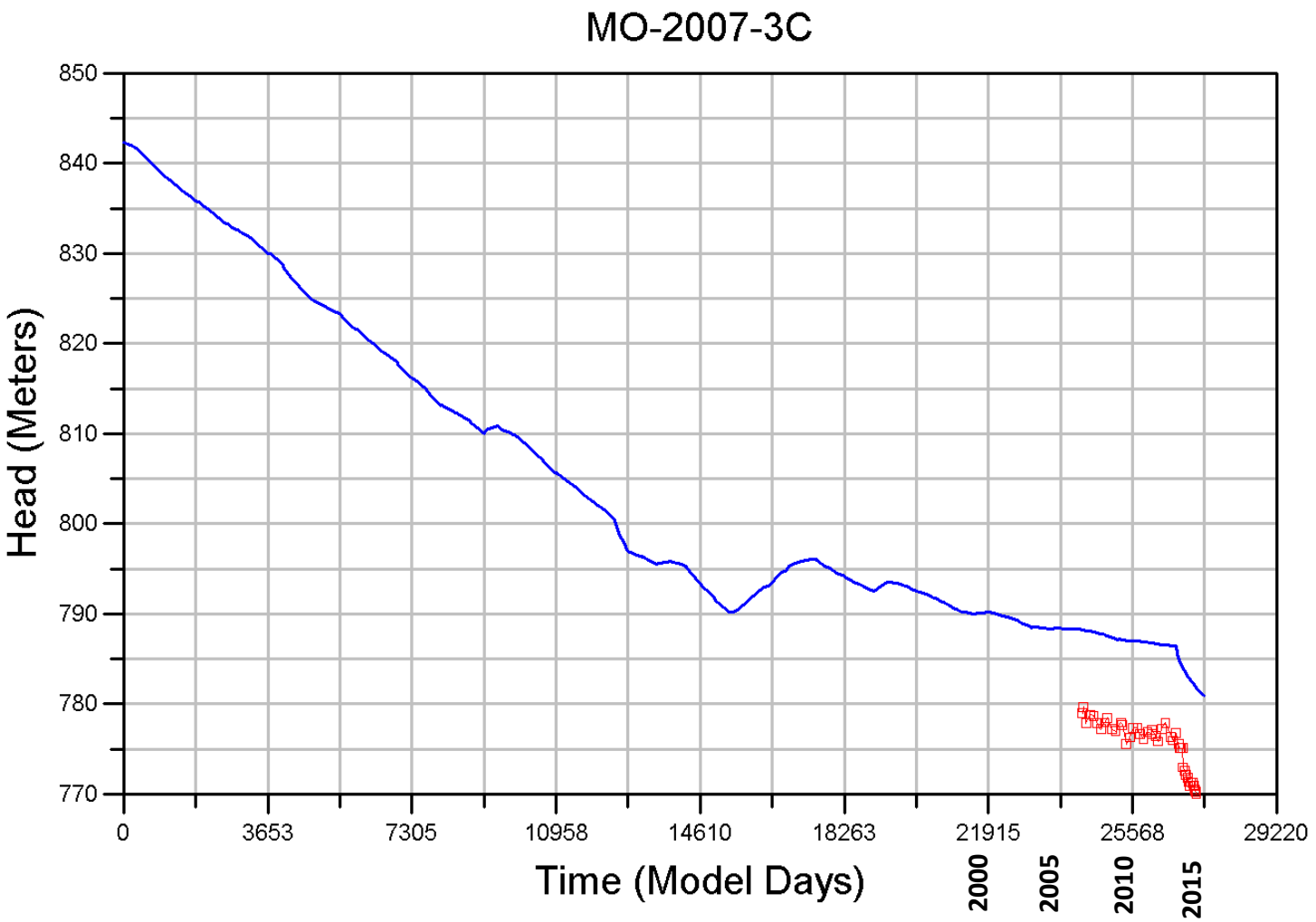
**HYDROGRAPH OF WELL MH-26B**

(Hydrograph Section 4, Model Layer 3)

| APPROVED | DATE 05/29/2016 | FIGURE 15 |
|---|---|---|

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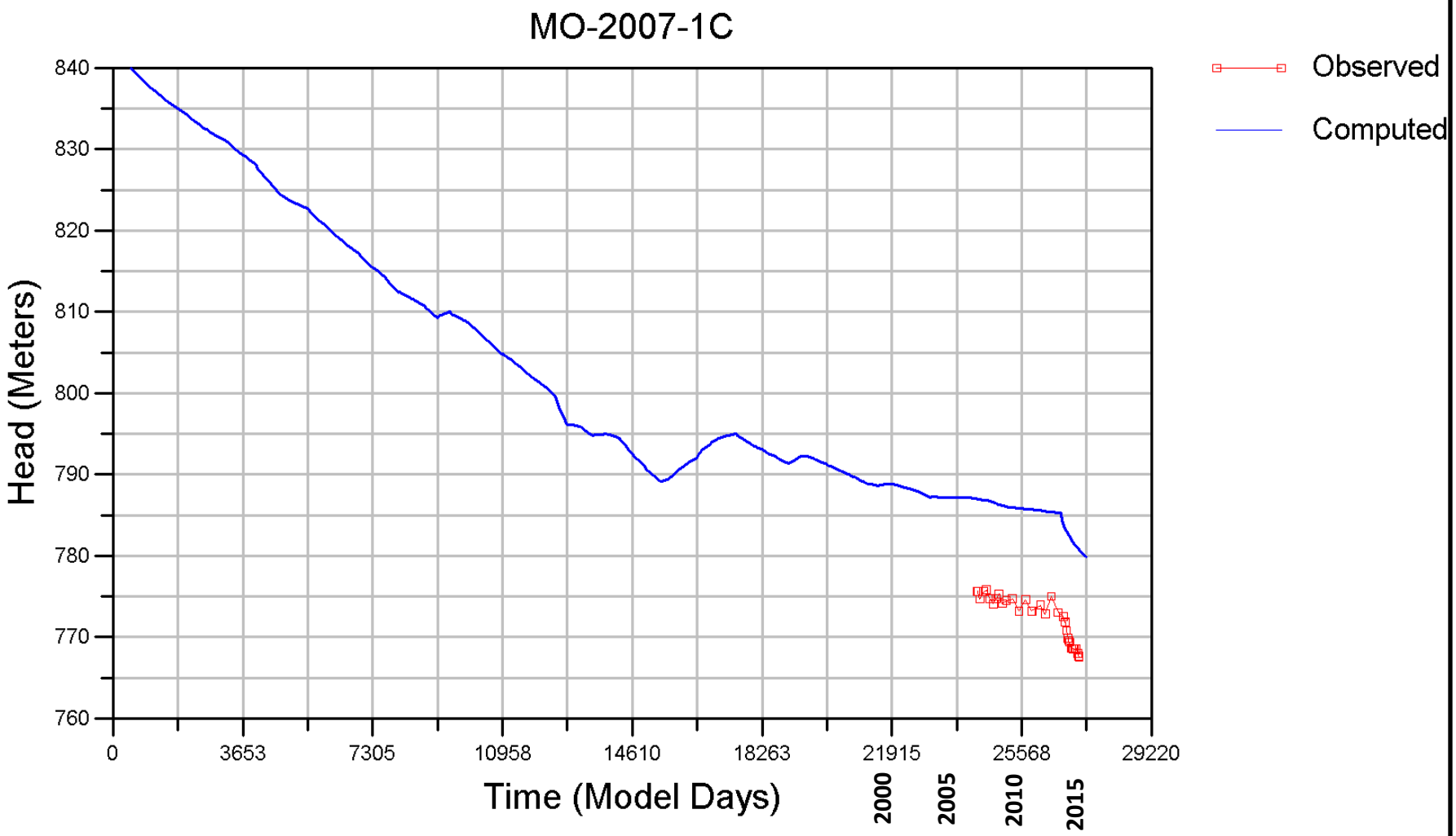
**HYDROGRAPH OF WELL MO-2007-3C**

(Hydrograph Section 4, Model Layer 3)

| APPROVED | DATE 05/29/2016 | FIGURE 16 |
|---|---|---|

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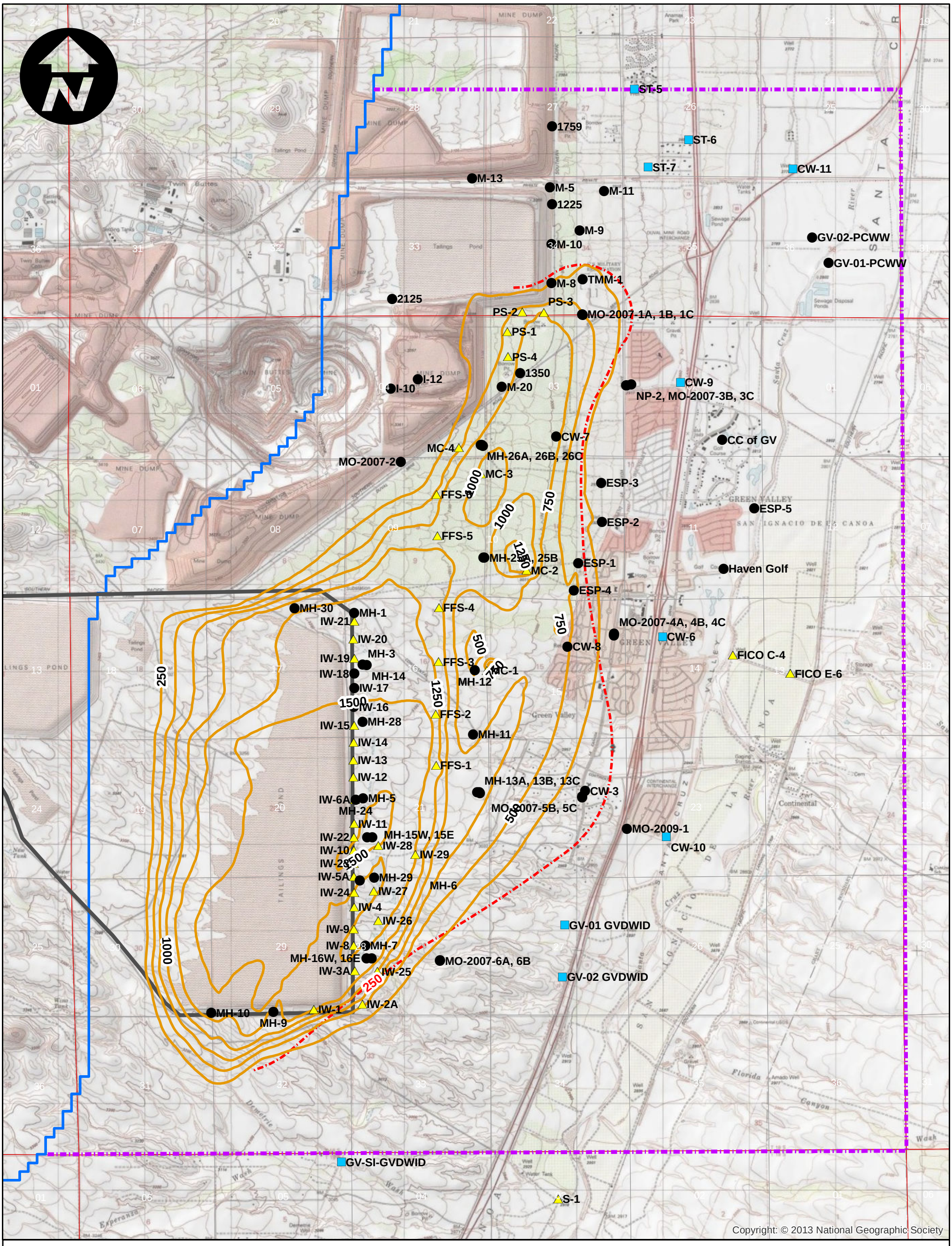
**HYDROGRAPH OF WELL MO-2007-1C**

(Hydrograph Section 4, Model Layer 3)

| APPROVED | DATE 05/29/2016 | FIGURE 17 |
|---|---|---|




**Legend**

## Performance Review Wells

- Extraction; Agriculture
- Drinking Water Supply
- Monitor; Sentinel
- 2015 Simulated Avg. Sulfate Conc.(mg/L, model run TR7E March 2016)
- Sulfate 4th Quarter 2015 Measured 250 mg/L
- Area of Emphasis
- PDSTI_shp
- Model Extents

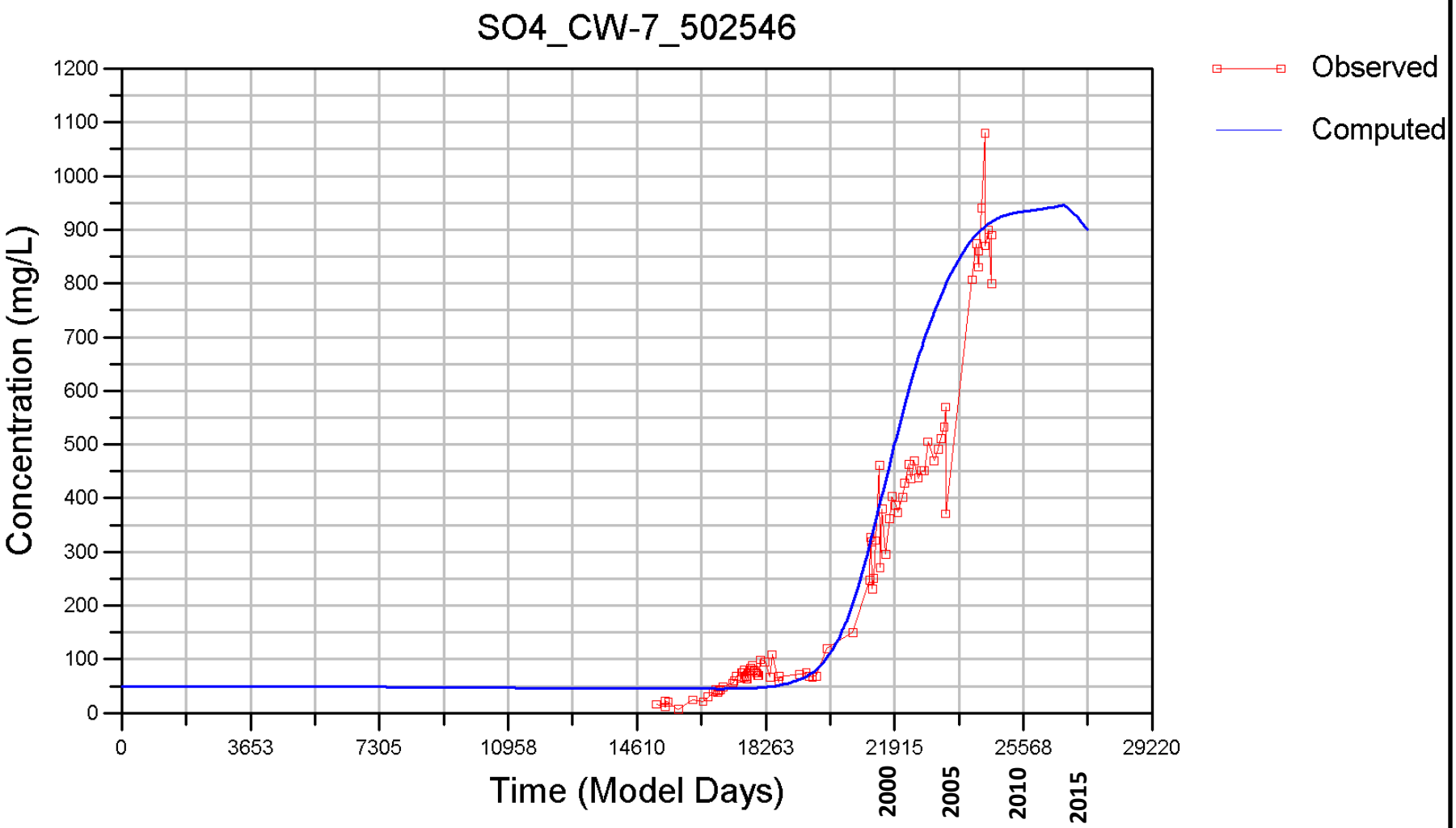
0 0.25 0.5 1 Miles

CLEAR CREEK ASSOCIATES

**FIGURE 18**

**SIMULATED AVERAGE SULFATE CONCENTRATION CONTOURS FOR END OF YEAR 2015 VS Q4 2015 MEASURED**

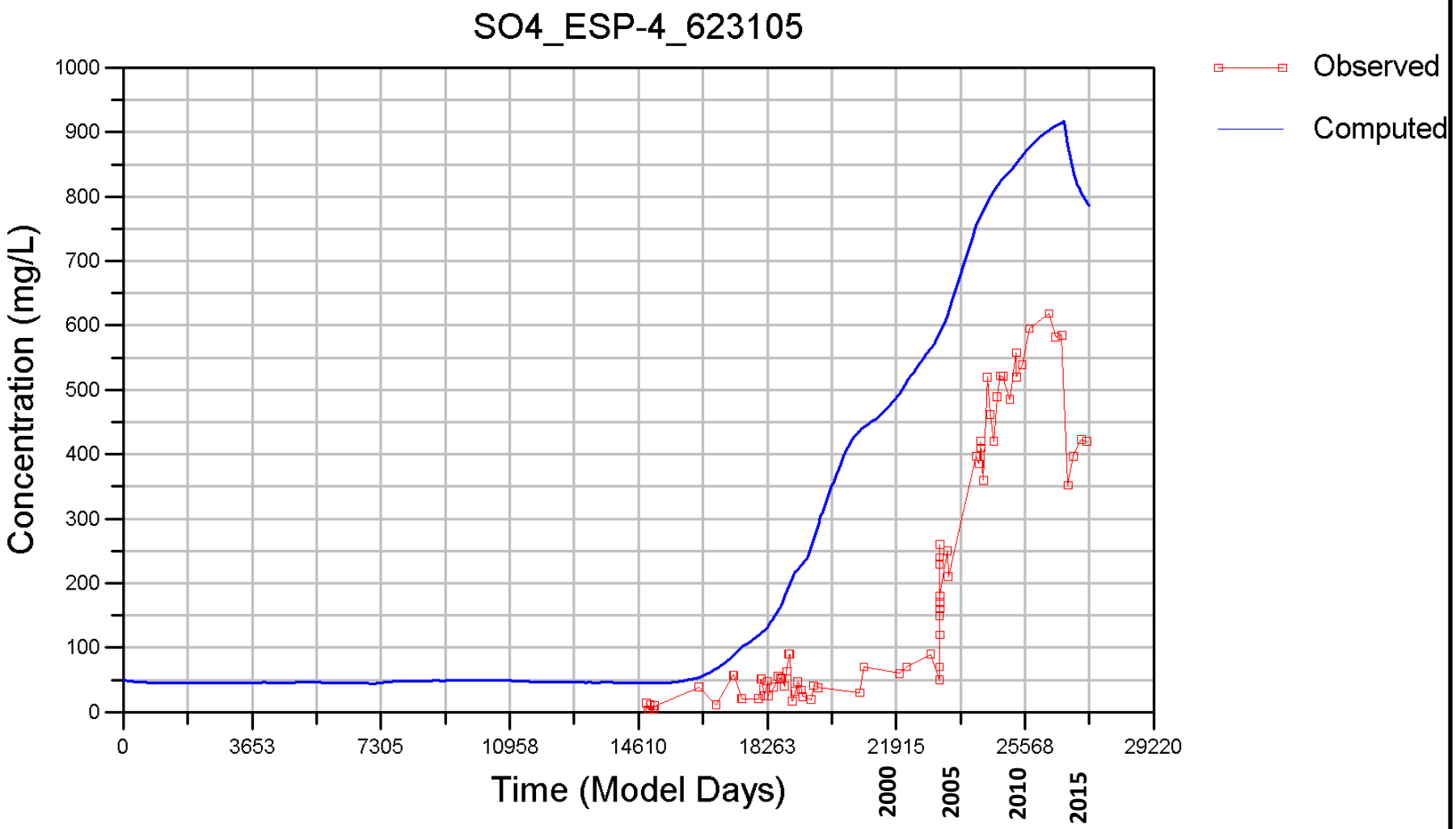
March 2016 swc




CLEAR CREEK ASSOCIATES

**CHEMOGRAPH OF WELL CW-7**

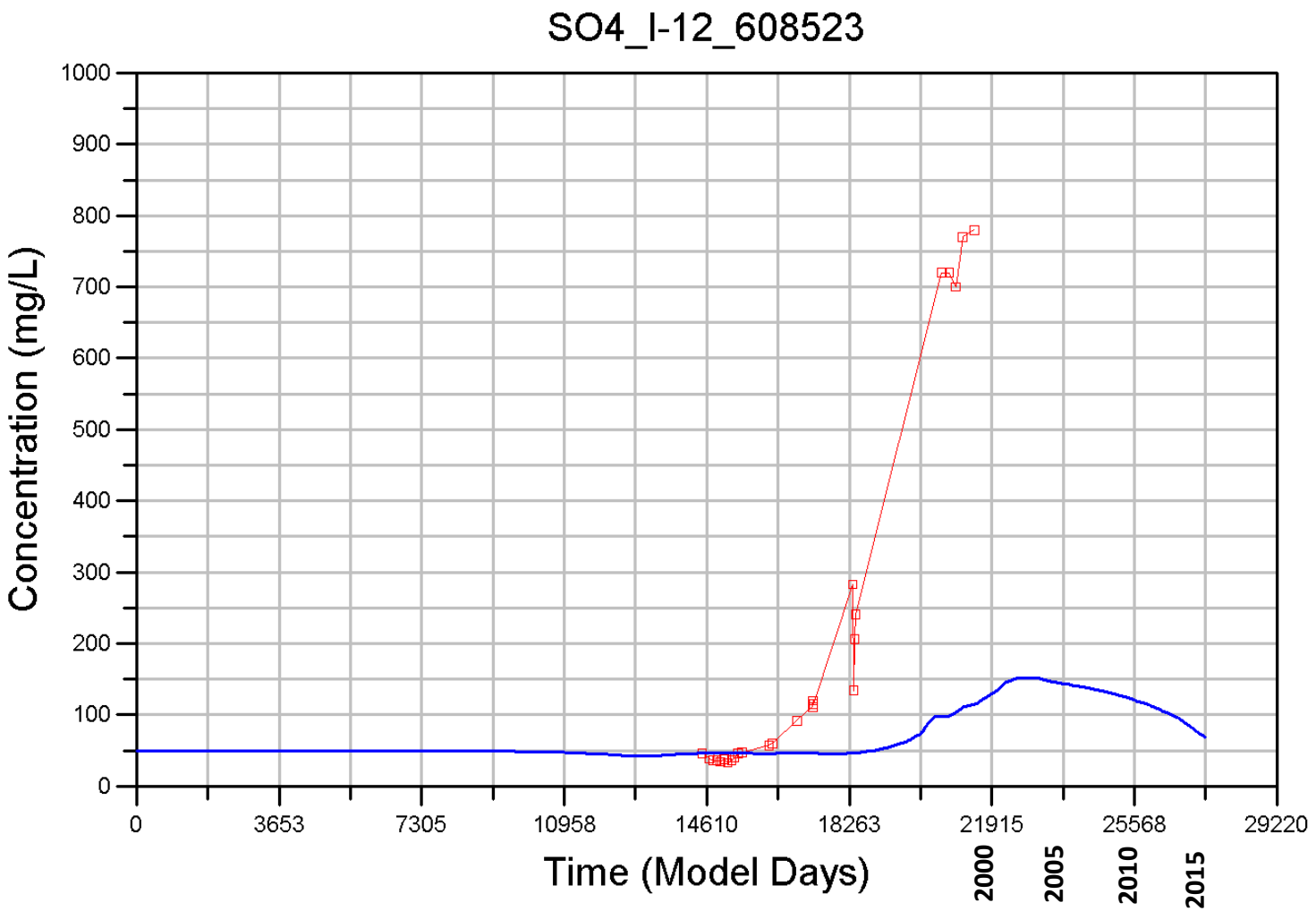
| APPROVED | DATE 05/29/2016 | FIGURE 19 |
|---|---|---|




CLEAR CREEK ASSOCIATES

**CHEMOGRAPH OF WELL ESP-4**

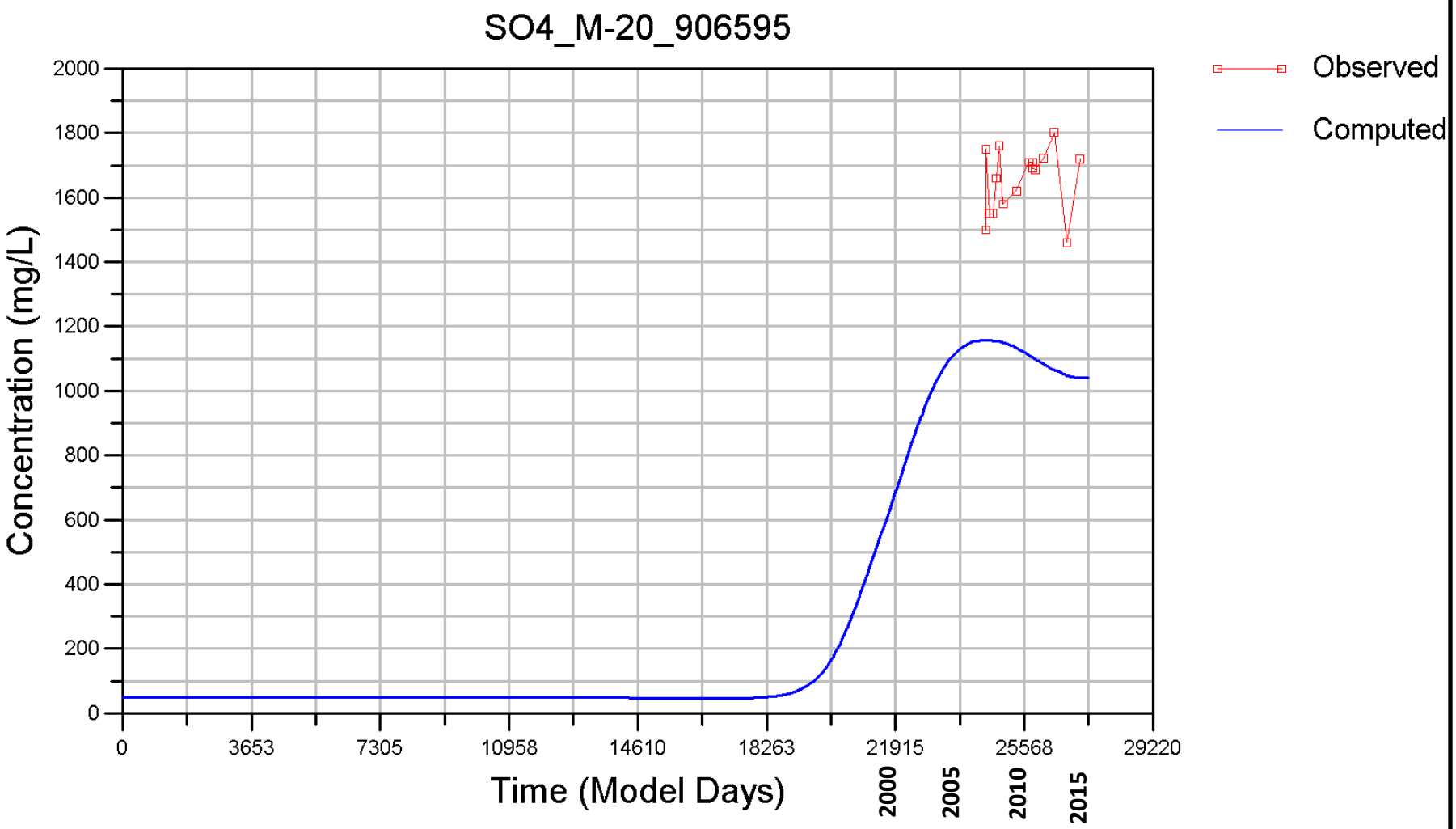
| APPROVED | DATE 05/29/2016 | FIGURE **20** |
|---|---|---|



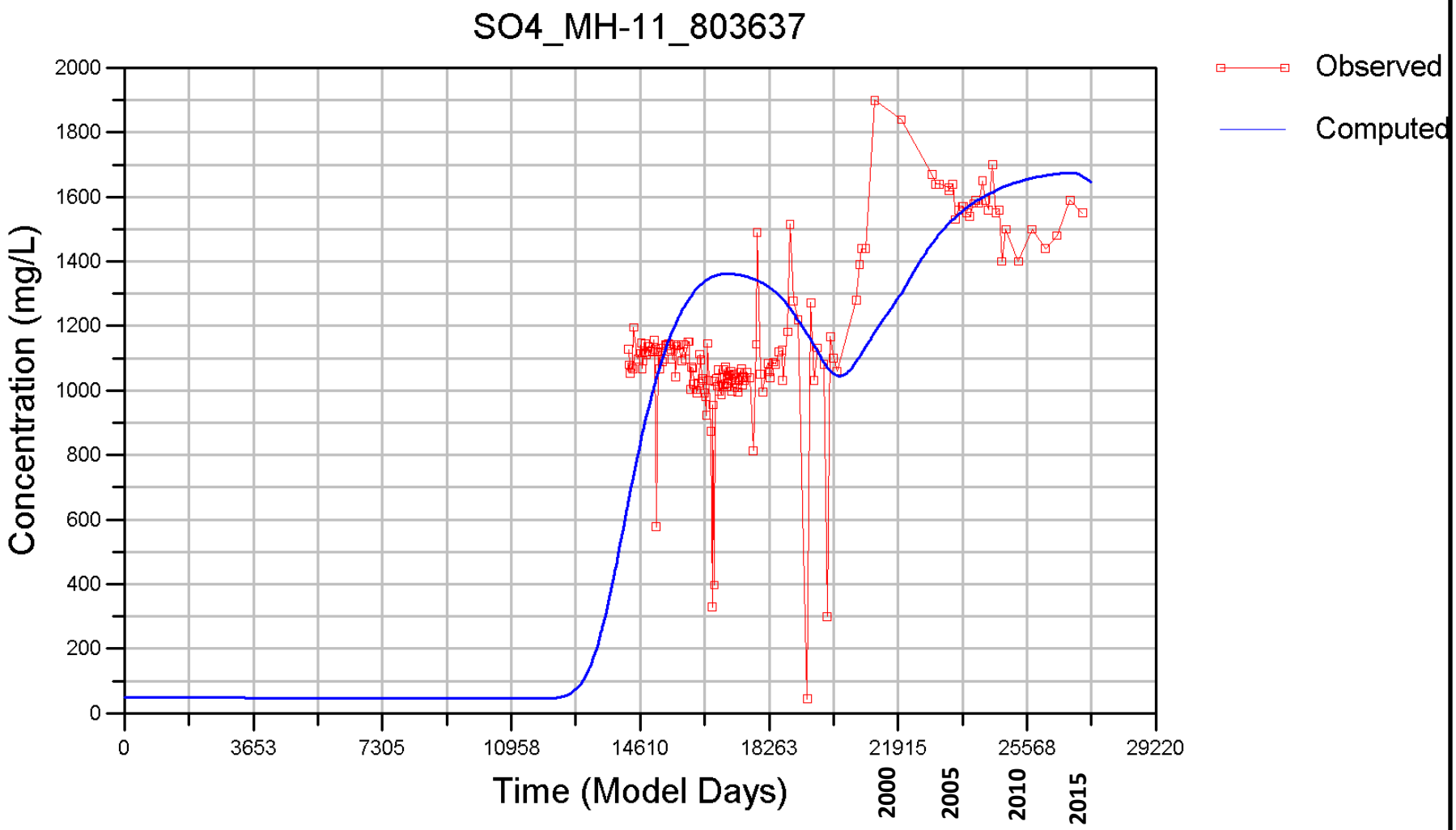

CLEAR CREEK ASSOCIATES

**CHEMOGRAPH OF WELL I-12**

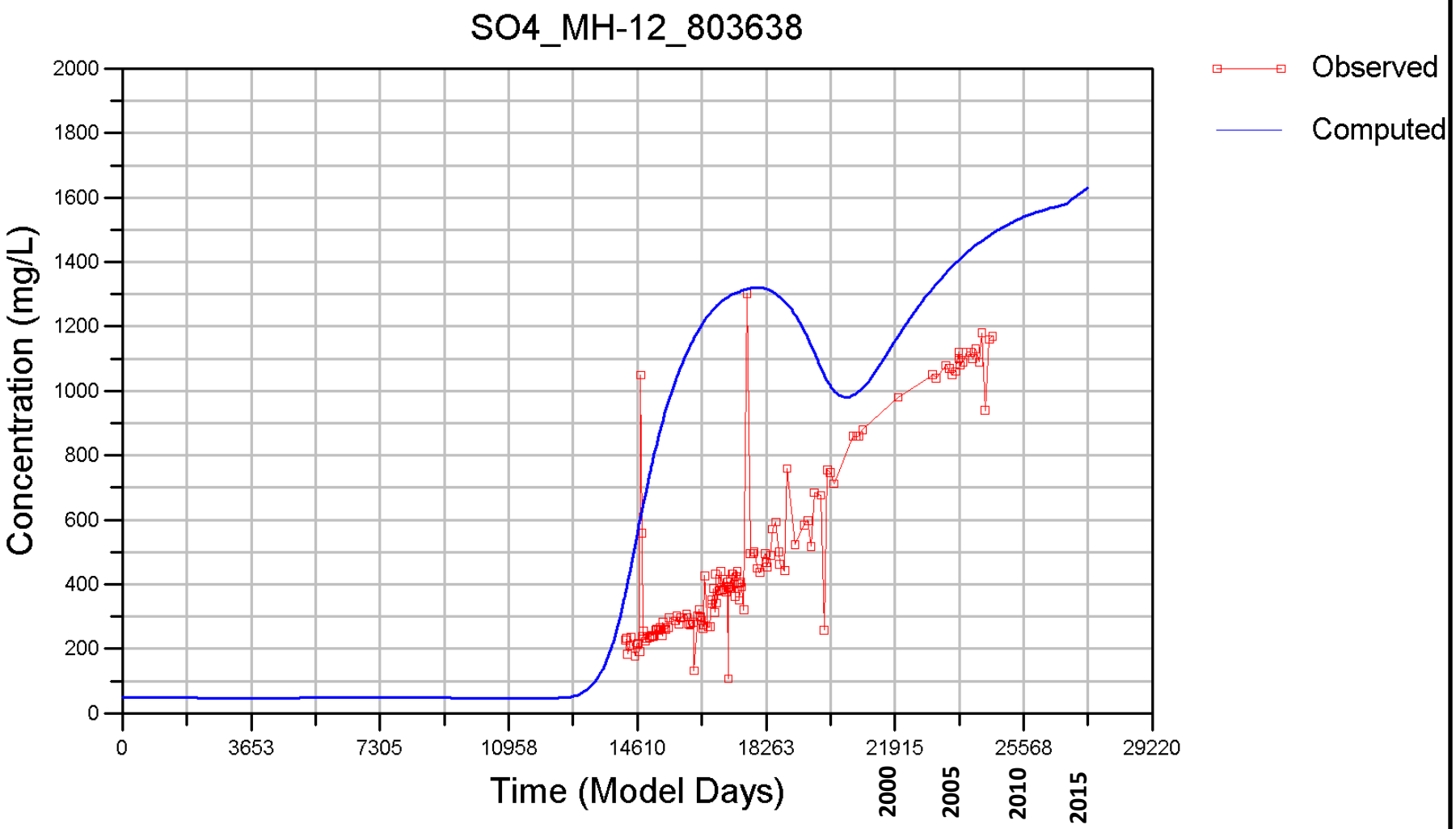
| APPROVED | DATE 05/29/2016 | FIGURE **21** |
|---|---|---|



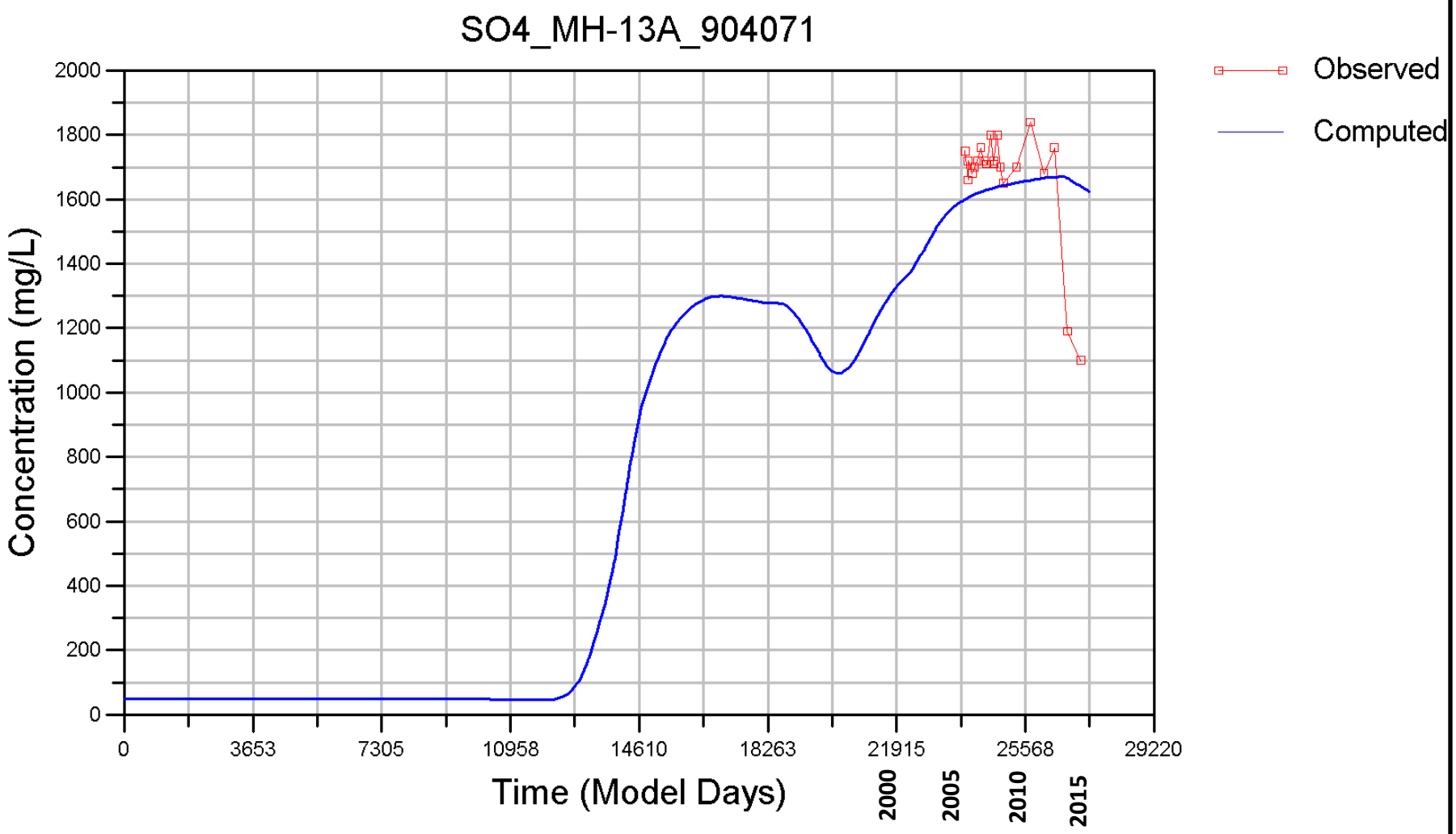

| | | | |
|---|---|---|---|
| CLEAR CREEK ASSOCIATES | **CHEMOGRAPH OF WELL M-20** | | |
| | APPROVED | DATE 05/29/2016 | FIGURE **22** |




| | | | |
|---|---|---|---|
| CLEAR CREEK ASSOCIATES | **CHEMOGRAPH OF WELL MH-11** | | |
| | APPROVED | DATE 05/29/2016 | FIGURE **23** |



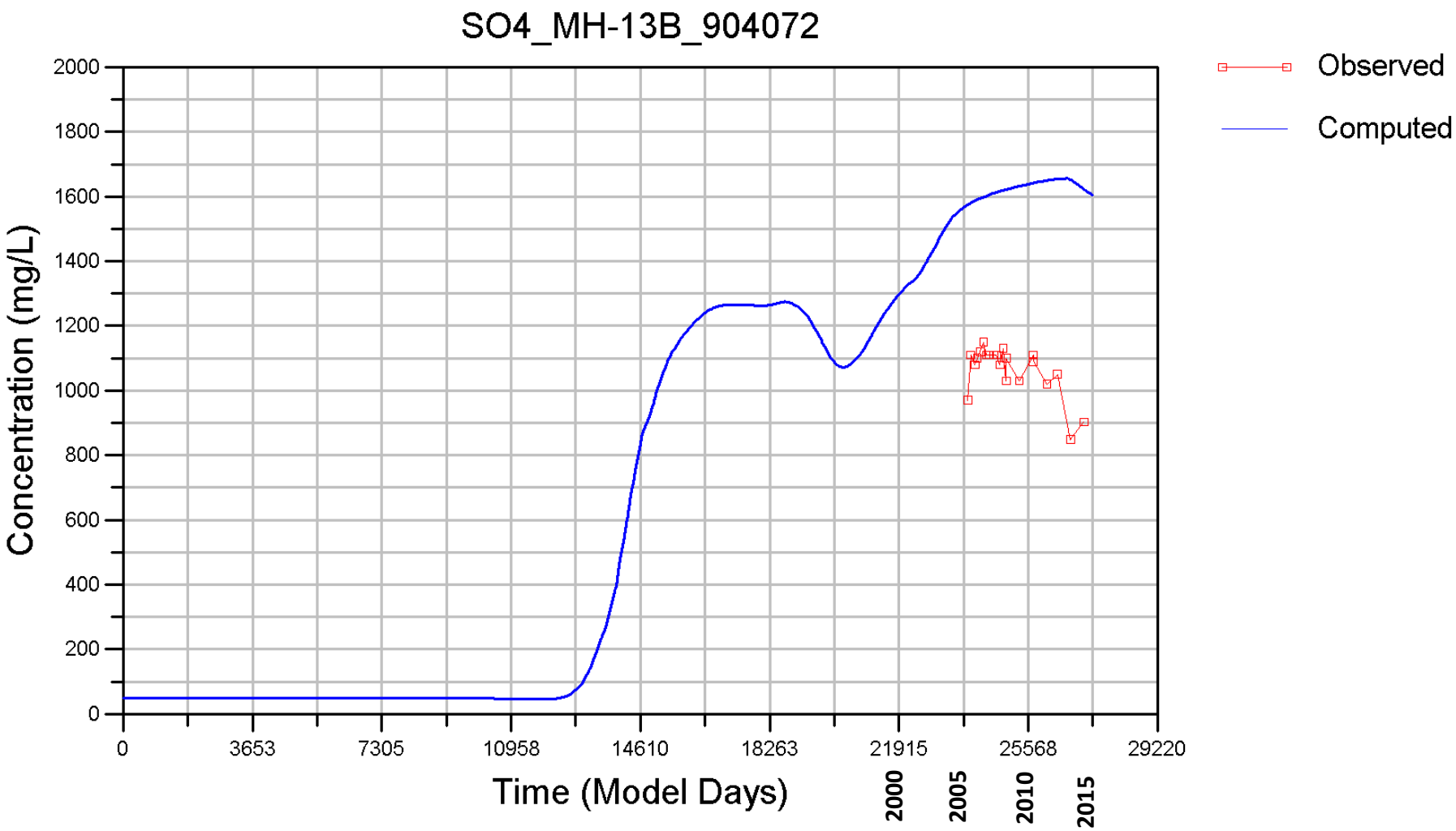

| | | | |
|---|---|---|---|
| CLEAR CREEK ASSOCIATES | **CHEMOGRAPH OF WELL MH-12** | | |
| | APPROVED | DATE 05/29/2016 | FIGURE **24** |




CLEAR CREEK ASSOCIATES

**CHEMOGRAPH OF WELL MH-13A**

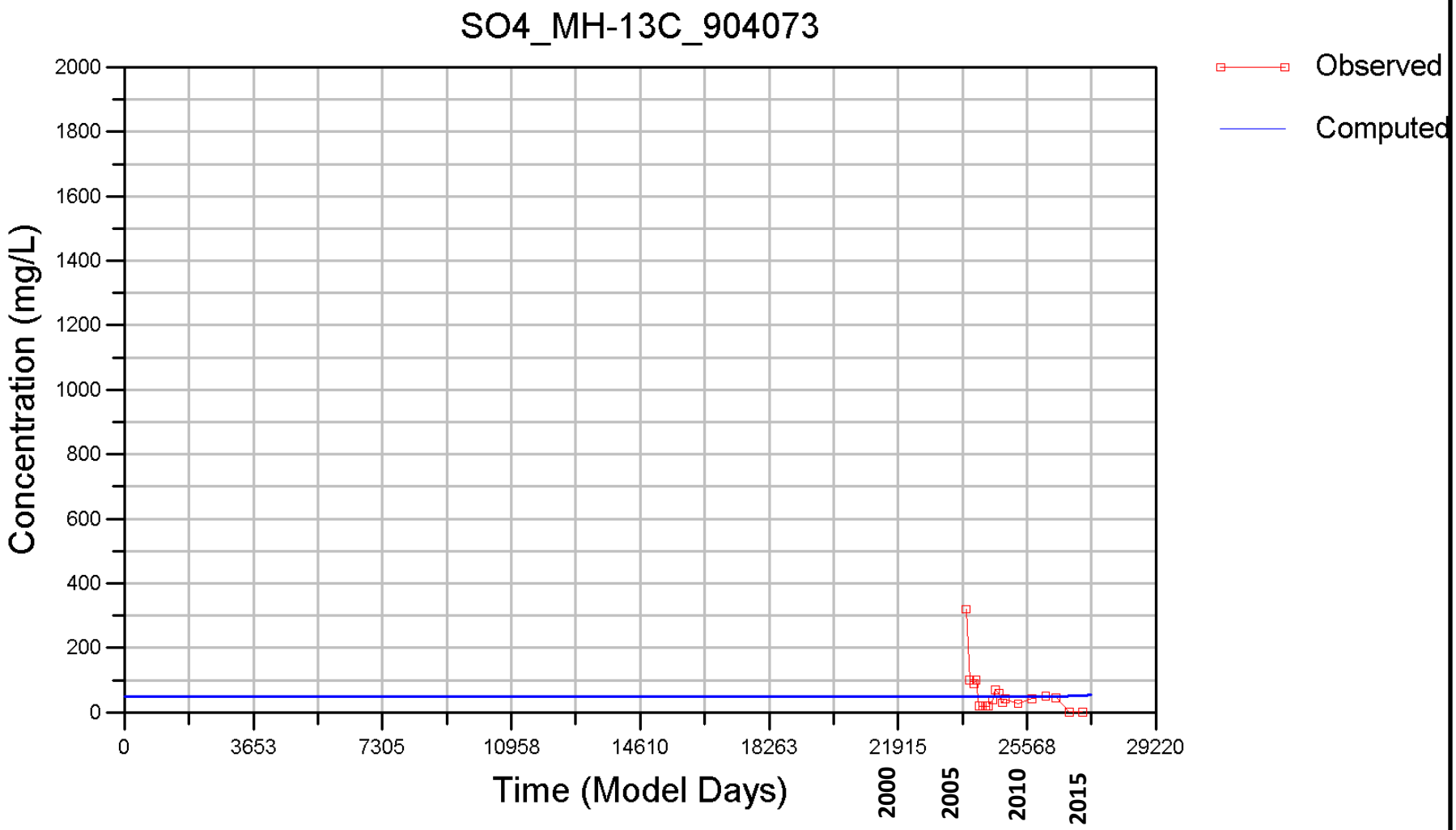
| APPROVED | DATE 05/29/2016 | FIGURE **25** |
|---|---|---|




CLEAR CREEK ASSOCIATES

**CHEMOGRAPH OF WELL MH-13B**

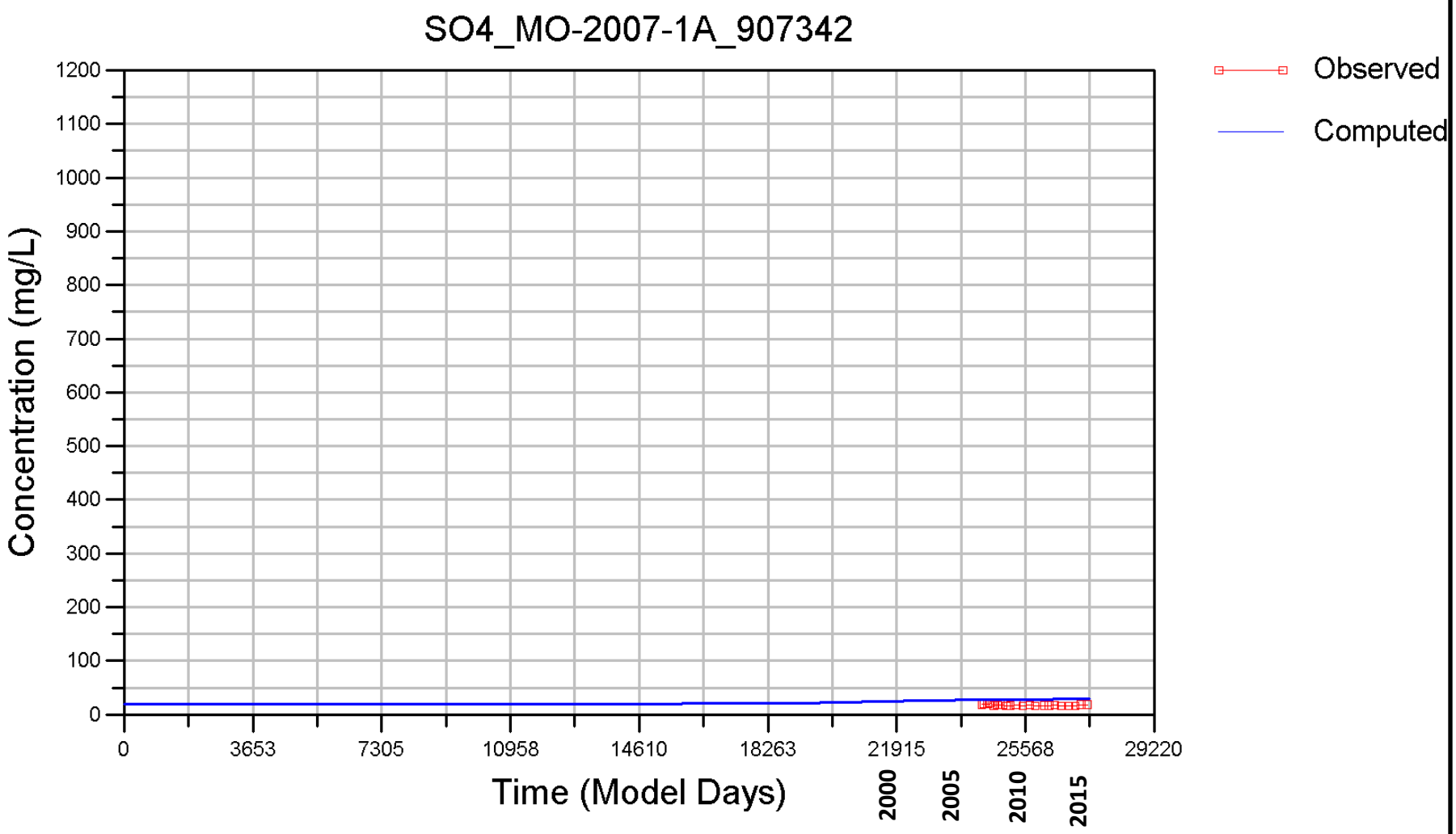
| APPROVED | DATE 05/29/2016 | FIGURE **26** |
|---|---|---|




CLEAR CREEK ASSOCIATES

**CHEMOGRAPH OF WELL MH-13C**

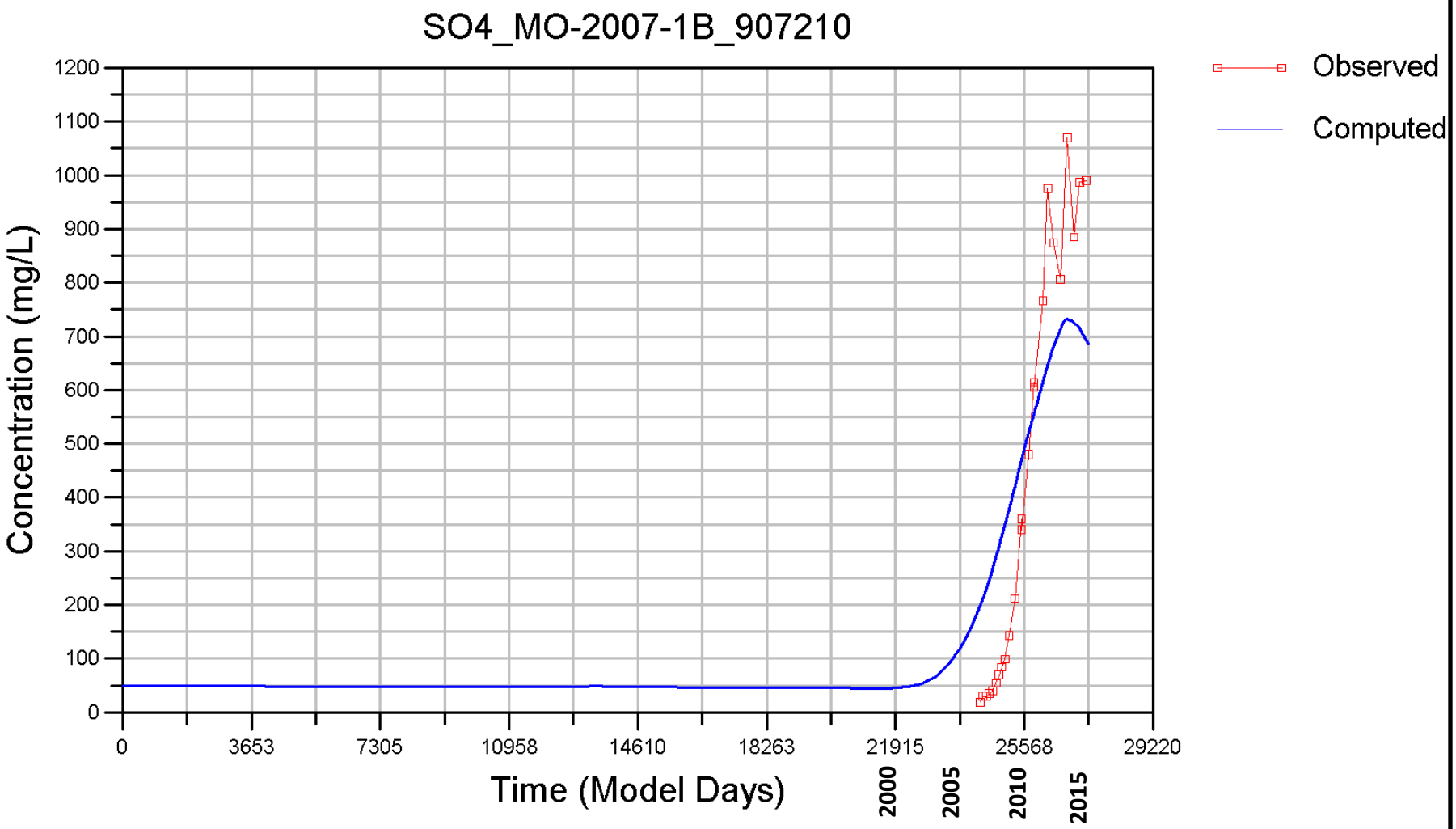
| APPROVED | DATE 05/29/2016 | FIGURE **27** |
|---|---|---|




CLEAR CREEK ASSOCIATES

**CHEMOGRAPH OF WELL MO-2007-1A**

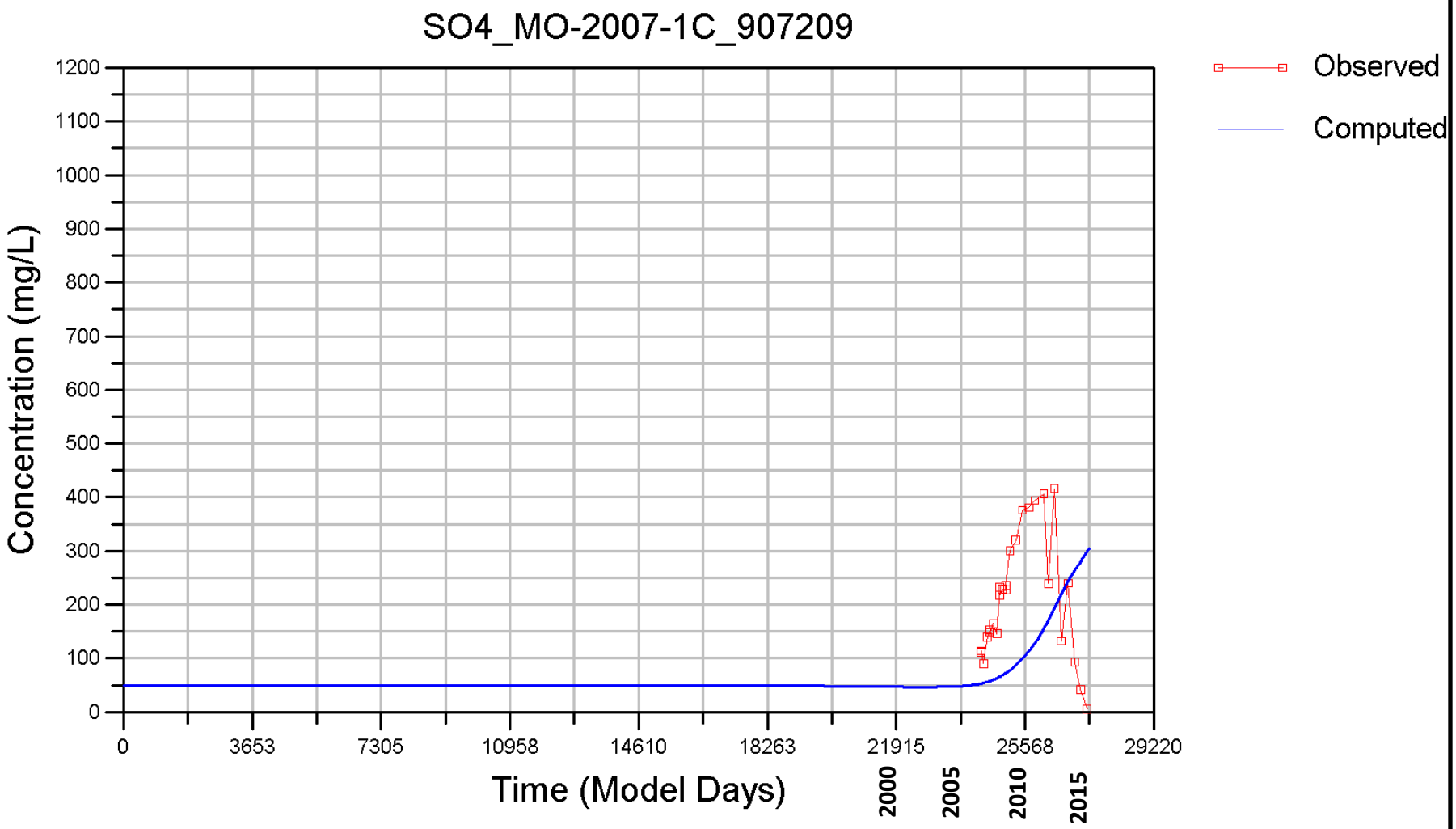
| APPROVED | DATE 05/29/2016 | FIGURE **28** |
|---|---|---|




CLEAR CREEK ASSOCIATES

**CHEMOGRAPH OF WELL MO-2007-1B**

| APPROVED | DATE 05/29/2016 | FIGURE 29 |
|---|---|---|




CLEAR CREEK ASSOCIATES

**CHEMOGRAPH OF WELL MO-2007-1C**

| APPROVED | DATE 05/29/2016 | FIGURE **30** |
|---|---|---|

ST-5
1759
ST-6
ST-7
CW-11
M-13
M-5
M-11
1225
M-9
M-10
GV-02-PCWW
GV-01-PCWW
M-8
TMM-1
2125
PS-3
PS-2
MO-2007-1A, 1B, 1C
PS-1
PS-4
1350
I-12
I-10
M-20
CW-9
NP-2, MO-2007-3B, 3C
CW-7
CC of GV
MC-4
MH-26A, 26B, 26C
MO-2007-2
MC-3
ESP-3
FFS-6
ESP-5
ESP-2
FFS-5
MH-25A, 25B
ESP-1
MC-2
Haven Golf
ESP-4
MH-30
MH-1
FFS-4
IW-21
MO-2007-4A, 4B, 4C
CW-6
IW-20
CW-8
MH-3
FFS-3
FICO C-4
IW-19
MC-1
FICO E-6
IW-18
MH-14
MH-12
IW-17
IW-16
FFS-2
IW-15
MH-28
MH-11
IW-14
IW-13
FFS-1
IW-12
MH-13A, 13B, 13C
CW-3
IW-6A
MH-5
MH-24
MO-2007-5B, 5C
IW-11
MO-2009-1
IW-22
MH-15W, 15E
CW-10
IW-28
IW-10
IW-29
IW-23
IW-5A
MH-29
MH-6
IW-24
IW-27
IW-4
IW-26
GV-01 GVDWID
IW-9
IW-8
MH-7
MH-16W, 16E
MO-2007-6A, 6B
IW-3A
IW-25
GV-02 GVDWID
IW-2A
IW-1
MH-10
MH-9
GV-SI-GVDWID
S-1



**Legend**

**Performance Review Wells**

- Extraction; Agriculture
- Drinking Water Supply
- Monitor; Sentinel
- 2020 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates
- 2040 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates
- 2060 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates
- 2080 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates
- 2100 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates
- 2115 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates
- Area of Emphasis
- PDSTI_shp
- Model Extents

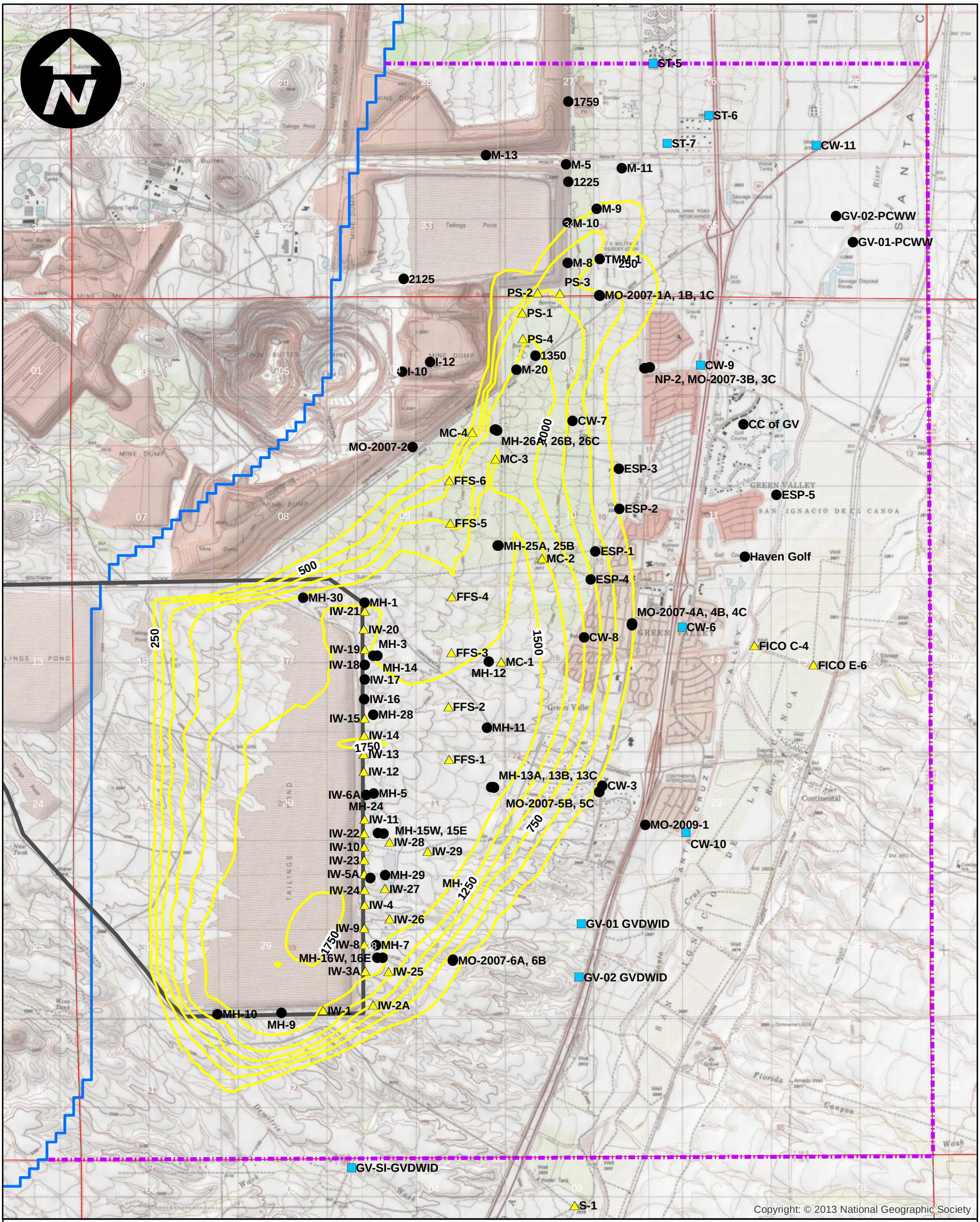
0 0.25 0.5 1 Miles

CLEAR CREEK ASSOCIATES

**FIGURE 31**

**SIMULATED EXTENT OF SULFATE PLUME FROM 2020 - 2115 FOR PREDICTIVE SIMULATION UNDER CONTINGENCY PLAN PUMPING RATES**

April 2016 swc




**Legend**

0 0.25 0.5 1 Miles

## Performance Review Wells

- △ Extraction; Agriculture
- ■ Drinking Water Supply
- ● Monitor; Sentinel

2020 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates

Area of Emphasis

PDSTI_shp

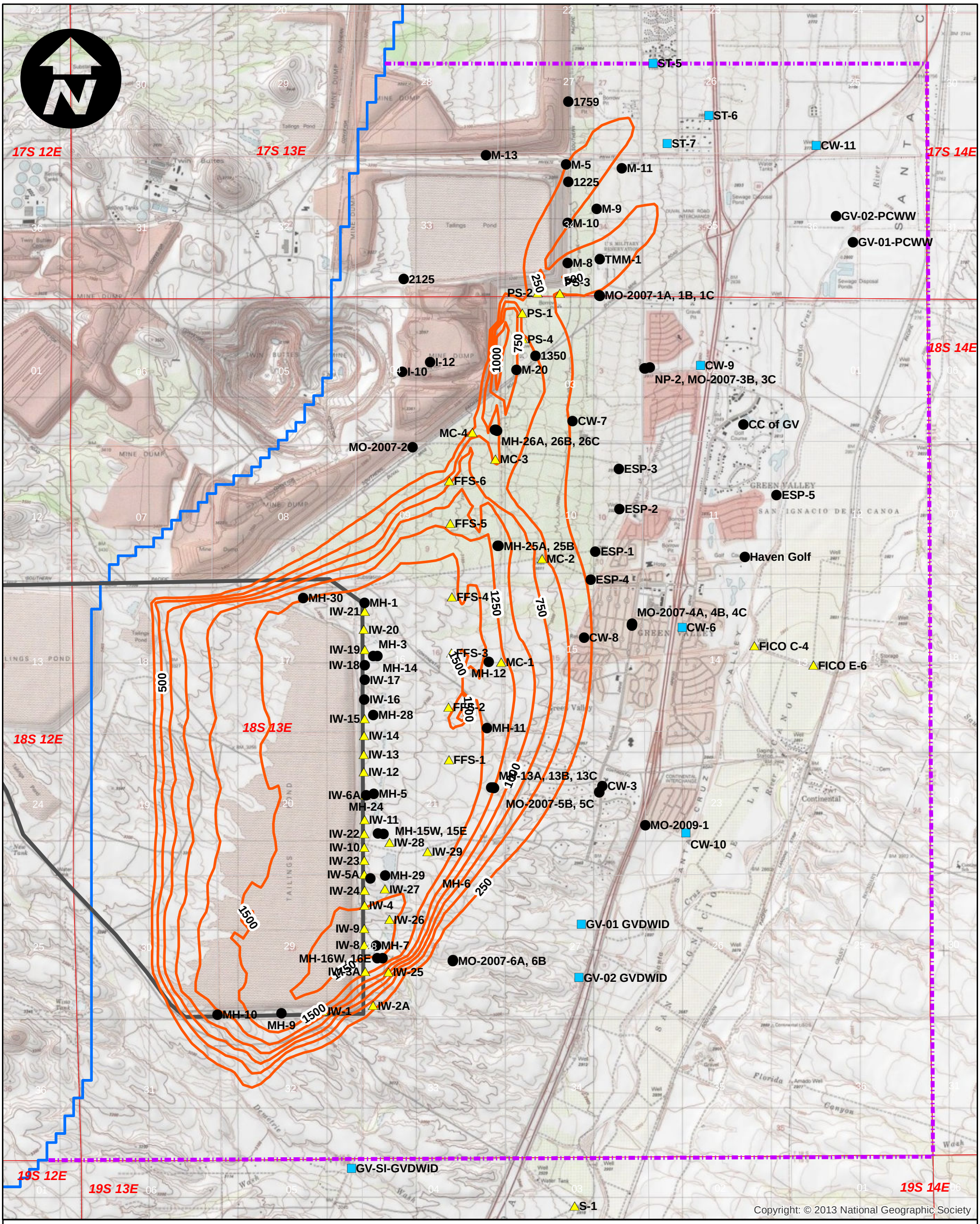
Model Extents

CLEAR CREEK ASSOCIATES

**FIGURE 32**

**SIMULATED SULFATE PLUME IN 2020 FOR PREDICTIVE SIMULATION UNDER CONTINGENCY PLAN PUMPING RATES**

April 2016 swc




**Legend**

0 0.25 0.5 1 Miles

## Performance Review Wells

- △ Extraction; Agriculture
- ■ Drinking Water Supply
- ● Monitor; Sentinel

2040 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates

Area of Emphasis

PDSTI_shp

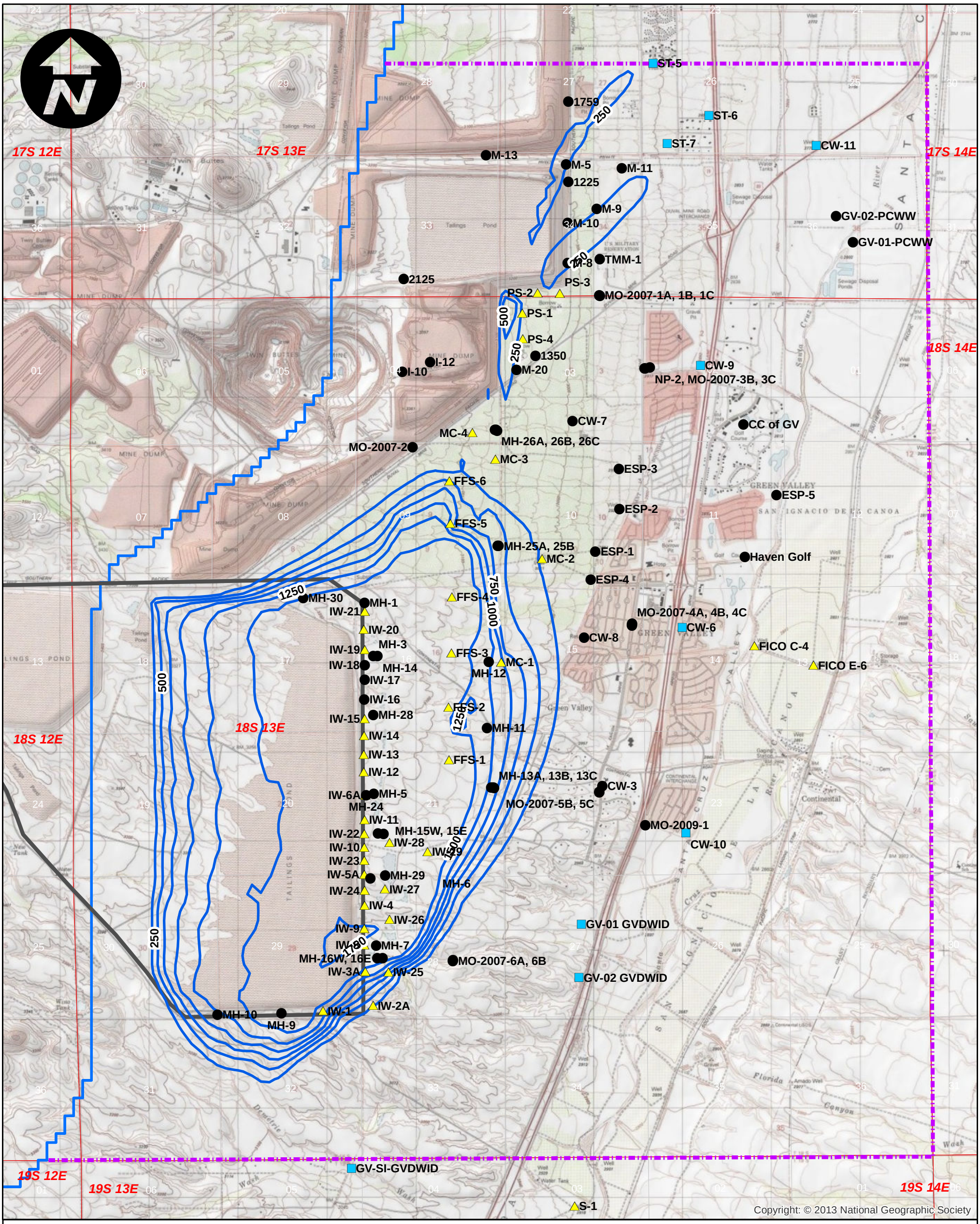
Model Extents

CLEAR CREEK ASSOCIATES

**FIGURE 33**

**SIMULATED SULFATE PLUME IN 2040 FOR PREDICTIVE SIMULATION UNDER CONTINGENCY PLAN PUMPING RATES**

April 2016 swc




**Legend**

0 0.25 0.5 1 Miles

## Performance Review Wells

- △ Extraction; Agriculture
- ■ Drinking Water Supply
- ● Monitor; Sentinel

2060 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates

Area of Emphasis

PDSTI_shp

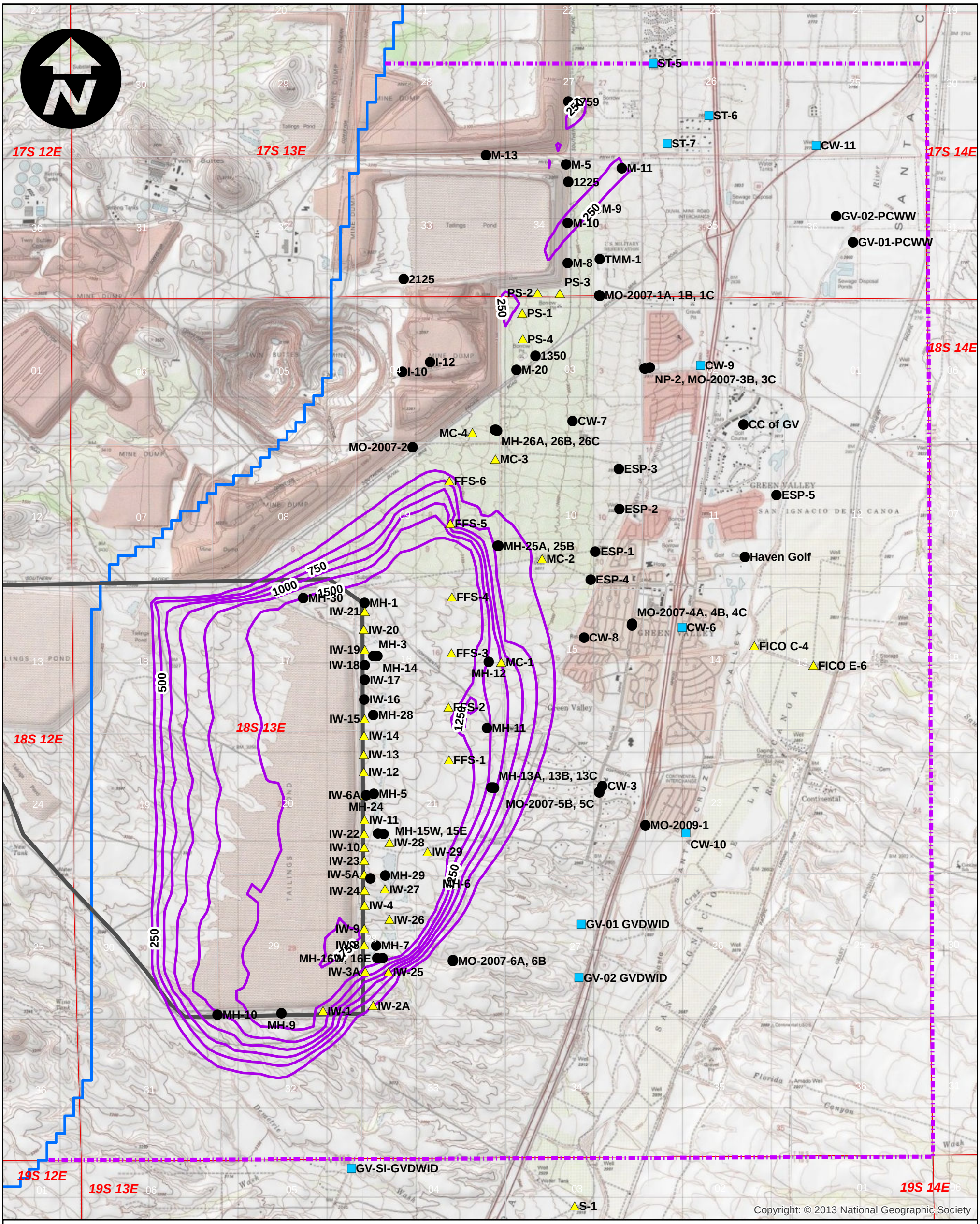
Model Extents

CLEAR CREEK ASSOCIATES

**FIGURE 34**

**SIMULATED SULFATE PLUME IN 2060 FOR PREDICTIVE SIMULATION UNDER CONTINGENCY PLAN PUMPING RATES**

April 2016 swc




**Legend**

0 0.25 0.5 1 Miles

## Performance Review Wells

- △ Extraction; Agriculture
- ■ Drinking Water Supply
- ● Monitor; Sentinel

2080 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates

Area of Emphasis

PDSTI_shp

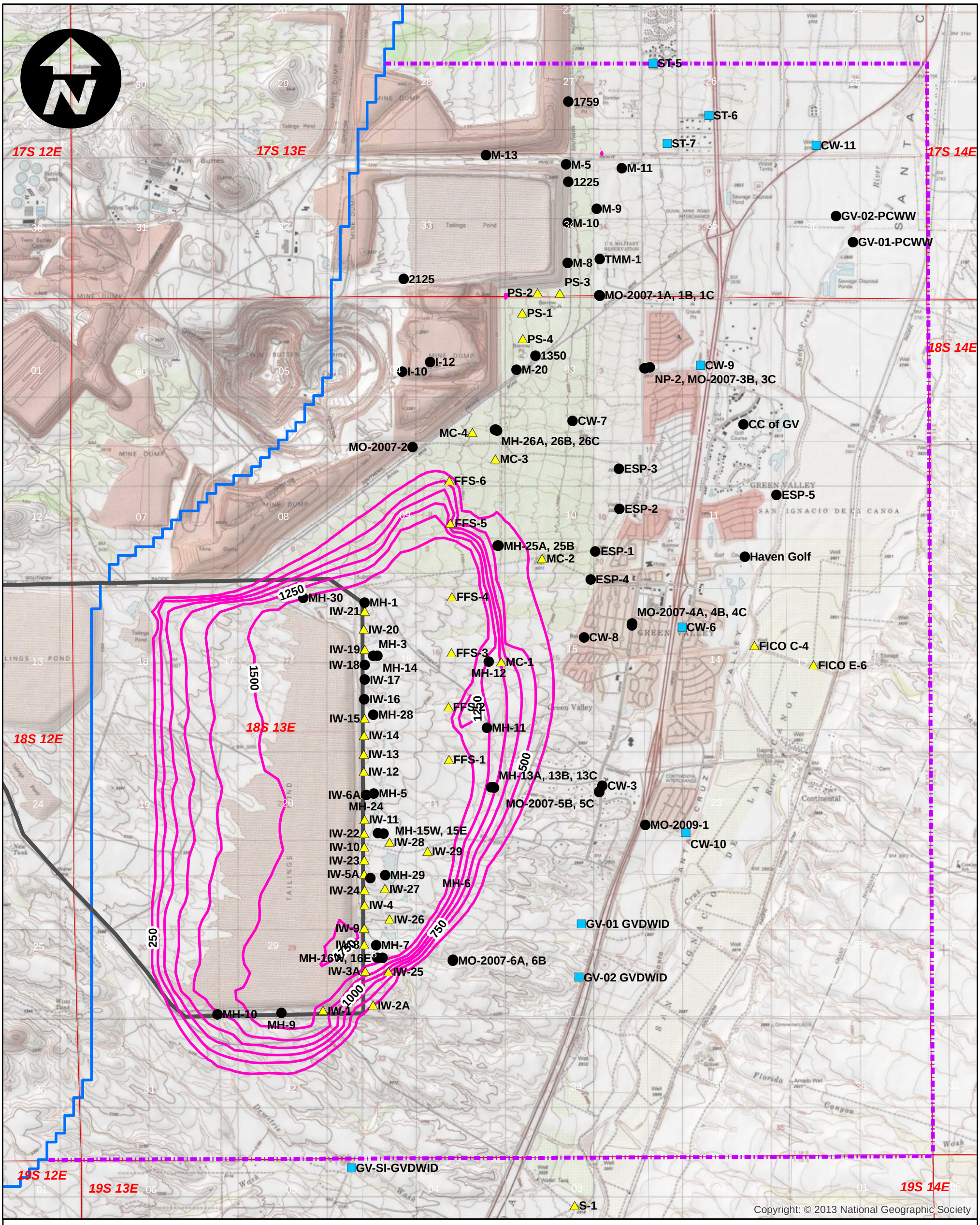
Model Extents

CLEAR CREEK ASSOCIATES

**FIGURE 35**

**SIMULATED SULFATE PLUME IN 2080 FOR PREDICTIVE SIMULATION UNDER CONTINGENCY PLAN PUMPING RATES**

April 2016 swc




**Legend**

0 0.25 0.5 1 Miles

## Performance Review Wells

- △ Extraction; Agriculture
- ■ Drinking Water Supply
- ● Monitor; Sentinel

2100 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates

Area of Emphasis

PDSTI_shp

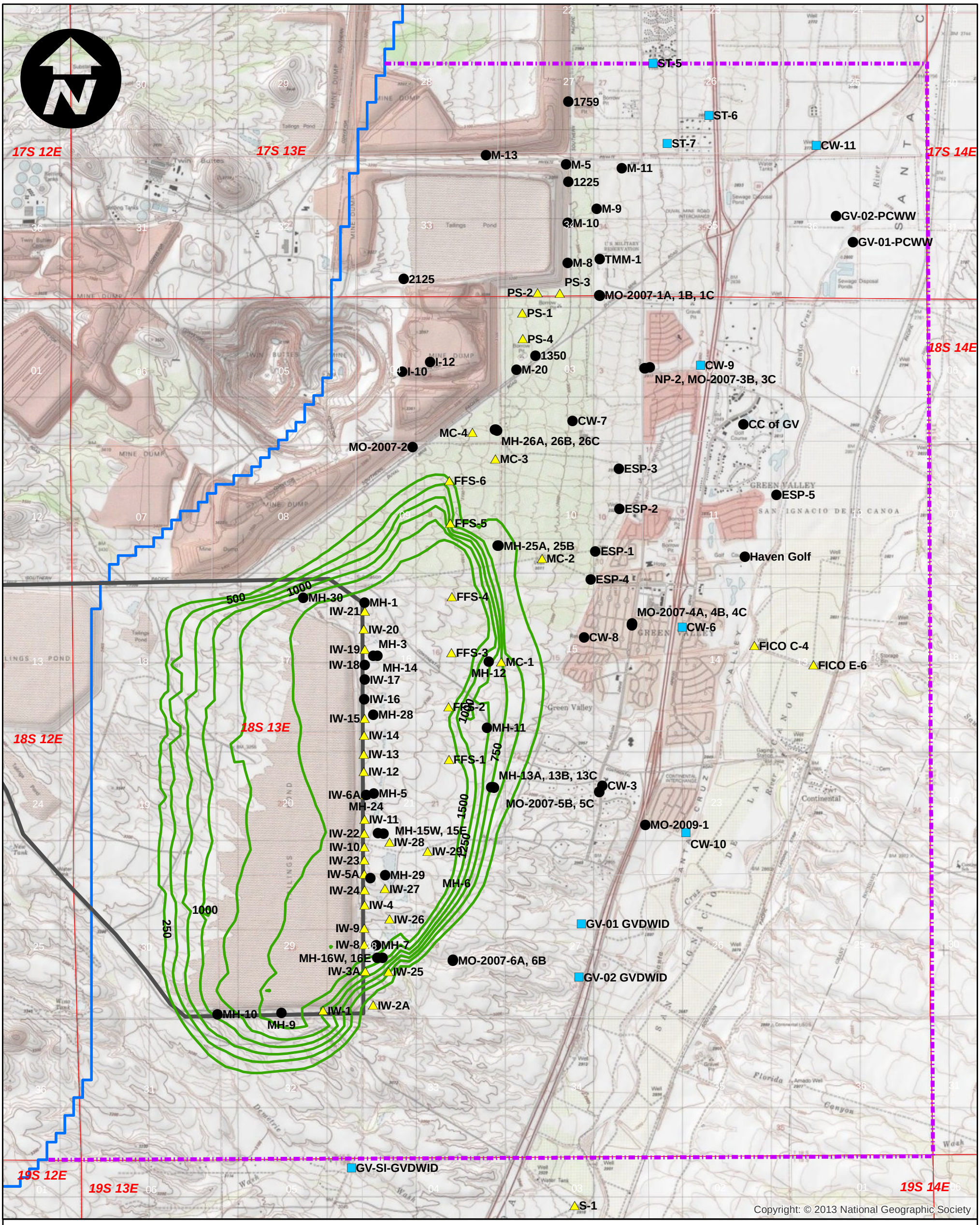
Model Extents

CLEAR CREEK ASSOCIATES

**FIGURE 36**

**SIMULATED SULFATE PLUME IN 2100 FOR PREDICTIVE SIMULATION UNDER CONTINGENCY PLAN PUMPING RATES**

April 2016 swc




**Legend**

0 0.25 0.5 1 Miles

## Performance Review Wells

- △ Extraction; Agriculture
- ■ Drinking Water Supply
- ● Monitor; Sentinel

2115 Sulfate Contour (mg/L) for Contingency Plan Pumping Rates

Area of Emphasis

PDSTI_shp

Model Extents

CLEAR CREEK ASSOCIATES

**FIGURE 37**

**SIMULATED SULFATE PLUME IN 2115 FOR PREDICTIVE SIMULATION UNDER CONTINGENCY PLAN PUMPING RATES**

April 2016 swc

# TABLES

**TABLE 1.**
**WATER BUDGET COMPONENTS FOR SEEPAGE ESTIMATE**

| Year(s) | Ore Milled (million tons/yr) | Pulp Density | Water Delivered to Impoundment (ac-ft/yr) | Reclaimed Water (ac-ft/yr) | Surface Water Discharge (ac-ft/yr) | Precipitation (ac-ft/yr) | Evaporation (ac-ft/yr) | Retained in Impoundment (ac-ft/yr) | Available Seepage Water (ac-ft/yr) |
|---|---|---|---|---|---|---|---|---|---|
| 2005 | 39.20 | 0.52 | 26,396 | 6,015 | 281 | 3,322 | 12,772 | 5,383 | 5,777 |
| 2006 | 38.44 | 0.52 | 26,302 | 6,429 | 350 | 4,485 | 11,983 | 5,279 | 7,467 |
| 2007 | 40.06 | 0.52 | 27,307 | 5,401 | 260 | 2,692 | 10,102 | 5,500 | 9,255 |
| 2008 | 38.37 | 0.52 | 26,213 | 3,762 | 278 | 3,175 | 10,186 | 5,269 | 10,449 |
| 2009 | 37.91 | 0.53 | 24,669 | 4,300 | 0 | 1,857 | 9,850 | 5,205 | 7,171 |
| 2010 | 38.01 | 0.50 | 27,554 | 3,686 | 0 | 3,457 | 9,910 | 5,219 | 12,196 |
| 2011 | 38.53 | 0.52 | 26,348 | 3,707 | 0 | 1,901 | 10,298 | 5,291 | 8,953 |
| 2012 | 38.98 | 0.51 | 27,320 | 4,299 | 0 | 2,423 | 12,174 | 5,353 | 7,917 |
| 2013 | 37.06 | 0.51 | 25,966 | 5,614 | 0 | 2,563 | 10,794 | 5,090 | 7,032 |
| 2014 | 37.63 | 0.51 | 26,369 | 4,547 | 621 | 2,794 | 9,731 | 5,167 | 10,339 |
| 2015 - EOM | 38.418 | 0.514 | 26,444 | 4,776 | 621 | 2,867 | 10,780 | 5,276 | 8,656 |
| EOM - future | 0 | | 0 | 0 | na | na | na | na | 0 |

*Notes:*

1. *Values for 2007 to 2011, and 2014 from Montgomery & Associates 2016 Sierrita Tailing Impoundment Water Balance Analysis for Year 2014, FMI Sierrita Mine, Pima County, Arizona.*
2. *Values for 2012, 2013 water balance calculations based on data provided by FMI Sierrita*
2. *Values for 2015 - EOM based on average value for 2005 - 2014*

*EOM = end of mine life*
*ac-ft/yr = acre-feet per year*
*na = not applicable*

# TABLE 2. 1941-1983 WELL LOCATION AND PUMPING RATES FOR TRANSIENT SIMULATION (GPM), taken from ADWR Model (Mason and Bota, 2006)

| WellName | UTM83E | UTM83N | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANAMAX? | 502246 | 3531582 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANAMAX? | 502246 | 3534801 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANAMAX? | 502327 | 3533996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 230 | 370 | 80 | 80 | 430 | 1360 | 1910 | 1070 | 2280 | 1590 | 440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANAMAX? | 502448 | 3527559 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 220 | 30 | 0 | 1140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANAMAX? | 502568 | 3527559 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 160 | 20 | 570 | 860 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANAMAX? | 503051 | 3530778 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 1890 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANAMAX? | 503051 | 3532387 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1860 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 1270 | 760 | 820 | 1090 | 800 | 1030 | 950 | 770 |
| B01 | 500128 | 3518708 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 420 | 290 | 260 | 310 | 290 | 220 | 100 | 80 | 60 | 110 | 100 | 110 | 100 | 80 |
| B01 | 503896 | 3533996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 260 | 290 | 200 | 190 | 220 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C02 | 499832 | 3528364 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 180 | 250 | 90 | 90 | 200 | 210 | 190 | 200 | 160 | 100 | 110 | 170 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| COT | 507074 | 3538020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160 | 570 | 490 | 490 | 520 | 480 | 310 | 360 | 440 | 370 | 340 | 300 | 340 | 170 | 280 |
| COT | 507919 | 3538020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 580 | 620 | 620 | 570 | 310 | 460 | 260 | 420 | 500 | 500 | 350 | 190 |
| CYPRUS-PIMA | 499780 | 3535697 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 360 | 340 | 380 | 360 | 240 | 240 | 140 | 370 | 210 | 0 | 280 | 0 | 0 | 0 | 0 |
| CYPRUS-PIMA | 499819 | 3536395 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 360 | 340 | 380 | 360 | 240 | 240 | 140 | 370 | 210 | 0 | 280 | 0 | 0 | 0 | 0 |
| CYPRUS-PIMA | 500424 | 3536410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 370 | 340 | 380 | 360 | 240 | 240 | 140 | 370 | 210 | 0 | 280 | 0 | 0 | 0 | 0 |
| CYPRUS-PIMA | 500435 | 3537050 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 360 | 340 | 380 | 360 | 240 | 240 | 140 | 370 | 210 | 0 | 450 | 0 | 0 | 0 | 0 |
| CYPRUS-PIMA | 500597 | 3538020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 900 | 730 | 680 | 760 | 720 | 480 | 50 | 550 | 740 | 430 | 0 | 400 | 0 | 0 | 0 | 0 | 0 |
| CYPRUS-PIMA | 501442 | 3538824 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1210 | 0 | 0 | 0 | 0 | 0 | 0 |
| CYPRUS-PIMA | 501482 | 3538020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CYPRUS-PIMA | 503252 | 3538020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 350 | 0 | 0 |
| CYPRUS-PIMA | 503413 | 3539629 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 740 | 0 | 10 |
| D1513 | 499792 | 3533996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 280 | 280 | 280 | 280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1613 | 499792 | 3539629 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 10 | 300 | 670 | 220 | 130 | 630 | 470 | 1180 | 1490 | 1050 | 700 | 980 | 980 | 270 | 270 | 200 | 280 | 390 | 330 | 0 | 0 | 0 | 0 |
| D1613 | 502287 | 3538824 | 0 | 50 | 50 | 50 | 50 | 50 | 0 | 0 | 0 | 80 | 70 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1010 | 870 | 1160 | 0 | 140 | 0 | 0 | 0 | 0 |
| D1613 | 503091 | 3538824 | 0 | 50 | 50 | 50 | 50 | 50 | 0 | 0 | 0 | 80 | 80 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 610 | 680 | 650 | 240 | 440 | 500 | 660 | 310 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1614 | 503976 | 3529973 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 120 | 140 | 70 | 50 | 70 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1614 | 505505 | 3538824 | 0 | 20 | 20 | 20 | 20 | 20 | 40 | 40 | 40 | 100 | 120 | 140 | 0 | 80 | 80 | 80 | 80 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1614 | 506310 | 3538824 | 0 | 20 | 20 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 80 | 80 | 80 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 498987 | 3532387 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 30 | 30 | 30 | 60 | 60 | 60 | 60 | 160 | 160 | 160 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 498987 | 3533192 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 30 | 30 | 30 | 60 | 60 | 60 | 60 | 160 | 160 | 160 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 498987 | 3536410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 499792 | 3532387 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 30 | 30 | 30 | 60 | 60 | 60 | 60 | 160 | 160 | 160 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 499792 | 3533192 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 30 | 30 | 30 | 60 | 60 | 60 | 60 | 160 | 160 | 160 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 500637 | 3529168 | 30 | 30 | 30 | 30 | 30 | 30 | 80 | 80 | 80 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 500637 | 3529973 | 30 | 30 | 30 | 30 | 30 | 30 | 80 | 80 | 80 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 500637 | 3532387 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 100 | 100 | 100 | 100 | 230 | 230 | 230 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 500637 | 3533192 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 100 | 100 | 100 | 100 | 230 | 230 | 230 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 501401 | 3538020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1210 | 2710 | 2200 | 2040 | 2270 | 2170 | 1440 | 1470 | 1650 | 2210 | 1260 | 0 | 1210 | 0 | 0 | 0 | 0 |
| D1713 | 501442 | 3529168 | 30 | 30 | 30 | 30 | 30 | 30 | 80 | 80 | 80 | 80 | 0 | 490 | 600 | 600 | 600 | 600 | 600 | 420 | 420 | 420 | 470 | 250 | 70 | 60 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 501442 | 3529973 | 30 | 30 | 30 | 30 | 30 | 30 | 80 | 80 | 80 | 80 | 490 | 490 | 300 | 300 | 300 | 900 | 900 | 640 | 640 | 640 | 630 | 810 | 70 | 110 | 140 | 0 | 80 | 420 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 501442 | 3532387 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 100 | 100 | 100 | 100 | 230 | 230 | 230 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 501442 | 3533192 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 100 | 100 | 100 | 100 | 230 | 230 | 230 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 502206 | 3533996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 230 | 120 | 0 | 0 | 50 | 350 | 180 | 420 | 240 | 220 | 70 | 1530 | 1270 | 860 | 1470 | 740 | 810 | 760 | 560 |
| D1713 | 502287 | 3529168 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 60 | 70 | 180 | 180 | 180 | 180 | 180 | 150 | 150 | 150 | 220 | 300 | 230 | 120 | 210 | 0 | 1310 | 690 | 1160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 502287 | 3529973 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 60 | 70 | 180 | 180 | 180 | 180 | 180 | 150 | 150 | 150 | 220 | 170 | 100 | 30 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 502287 | 3532387 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 140 | 230 | 260 | 120 | 120 | 120 | 120 | 120 | 230 | 230 | 230 | 230 | 260 | 260 | 260 | 260 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 530 | 400 | 400 | 460 | 530 | 570 | 450 | 470 |
| D1713 | 502287 | 3533192 | 0 | 0 | 260 | 260 | 0 | 260 | 30 | 30 | 30 | 140 | 230 | 260 | 120 | 120 | 120 | 120 | 120 | 230 | 230 | 230 | 230 | 260 | 260 | 260 | 260 | 370 | 940 | 840 | 430 | 480 | 450 | 220 | 60 | 140 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 502287 | 3535606 | 0 | 60 | 60 | 60 | 60 | 60 | 50 | 50 | 50 | 100 | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 590 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 502287 | 3536410 | 0 | 60 | 60 | 60 | 60 | 60 | 50 | 50 | 50 | 100 | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 502287 | 3537215 | 0 | 20 | 20 | 20 | 20 | 20 | 40 | 40 | 40 | 110 | 0 | 280 | 170 | 330 | 330 | 330 | 330 | 200 | 200 | 200 | 250 | 270 | 270 | 270 | 270 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 450 | 0 | 0 | 0 |
| D1713 | 502287 | 3538020 | 0 | 20 | 20 | 20 | 20 | 20 | 40 | 40 | 40 | 110 | 0 | 0 | 0 | 170 | 170 | 170 | 170 | 100 | 100 | 100 | 130 | 140 | 140 | 140 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 503091 | 3529168 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 70 | 70 | 180 | 180 | 180 | 180 | 180 | 150 | 150 | 150 | 220 | 300 | 240 | 120 | 260 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 503091 | 3529973 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 60 | 70 | 180 | 180 | 180 | 180 | 180 | 150 | 300 | 300 | 380 | 300 | 230 | 120 | 210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 503091 | 3533192 | 0 | 0 | 0 | 0 | 260 | 0 | 30 | 50 | 90 | 340 | 700 | 520 | 230 | 230 | 230 | 230 | 230 | 510 | 370 | 370 | 400 | 420 | 310 | 260 | 340 | 190 | 450 | 390 | 230 | 340 | 310 | 160 | 100 | 160 | 60 | 430 | 550 | 470 | 750 | 570 | 730 | 670 | 540 |
| D1713 | 503091 | 3535606 | 0 | 60 | 60 | 60 | 60 | 60 | 50 | 50 | 50 | 100 | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 503091 | 3536410 | 0 | 70 | 70 | 70 | 70 | 70 | 50 | 50 | 50 | 100 | 120 | 120 | 0 | 680 | 680 | 680 | 680 | 290 | 290 | 290 | 290 | 300 | 300 | 300 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 503091 | 3537215 | 0 | 20 | 20 | 20 | 20 | 20 | 40 | 40 | 40 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1713 | 503091 | 3538020 | 0 | 20 | 20 | 20 | 20 | 20 | 40 | 40 | 40 | 110 | 0 | 280 | 160 | 490 | 490 | 490 | 490 | 300 | 300 | 300 | 370 | 400 | 400 | 400 | 400 | 250 | 0 | 0 | 0 | 680 | 750 | 730 | 2460 | 2280 | 760 | 2780 | 800 | 0 | 670 | 1840 | 1430 | 950 | 20 |
| D1714 | 503856 | 3529973 | 80 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 130 | 170 | 170 | 170 | 140 | 140 | 140 | 150 | 150 | 150 | 150 | 150 | 0 | 180 | 250 | 340 | 140 | 120 | 150 | 110 | 0 | 0 | 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 503896 | 3529168 | 80 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 | 110 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 503896 | 3530778 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 170 | 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 360 | 320 | 320 | 290 | 260 | 290 | 280 | 170 | 220 | 60 | 520 | 660 | 620 | 500 |
| D1714 | 504137 | 3531582 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 360 | 0 | 0 | 160 | 330 | 370 | 330 | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 504701 | 3529168 | 80 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 504701 | 3529973 | 80 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 100 | 110 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 504701 | 3530778 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250 | 250 | 260 | 240 | 240 | 240 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 504701 | 3531582 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 0 | 380 | 330 | 490 | 490 | 490 | 490 | 450 | 360 | 270 | 320 | 300 | 190 | 1180 | 1340 | 110 | 490 | 1180 | 1600 | 1470 | 1160 | 830 | 1190 | 1380 | 1630 | 1310 | 700 | 770 | 770 | 850 | 1080 | 1010 | 810 |
| D1714 | 505505 | 3530778 | 60 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 0 | 40 | 40 | 80 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 505505 | 3531582 | 60 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 0 | 40 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 505505 | 3534801 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220 | 100 | 110 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 80 | 80 | 80 | 80 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 505505 | 3537215 | 100 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 0 | 100 | 120 | 190 | 190 | 190 | 190 | 190 | 550 | 510 | 470 | 360 | 360 | 300 | 160 | 230 | 310 | 360 | 320 | 290 | 170 | 60 | 50 | 70 | 50 | 330 | 460 | 180 | 200 | 220 | 270 | 350 | 330 | 260 |
| D1714 | 505505 | 3538020 | 100 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 506310 | 3530778 | 60 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 0 | 40 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 506310 | 3531582 | 60 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 0 | 40 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 506310 | 3533996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 70 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# TABLE 2. 1941-1983 WELL LOCATION AND PUMPING RATES FOR TRANSIENT SIMULATION (GPM), taken from ADWR Model (Mason and Bota, 2006)

| WellName | UTM83E | UTM83N | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D1714 | 506310 | 3537215 | 100 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 0 | 0 | 120 | 190 | 190 | 190 | 190 | 190 | 130 | 130 | 130 | 120 | 70 | 70 | 70 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1714 | 506310 | 3538020 | 100 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 580 | 350 | 350 | 190 | 190 | 190 | 190 | 190 | 130 | 130 | 130 | 120 | 220 | 220 | 220 | 220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 499832 | 3525950 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 290 | 1570 | 1110 | 1210 | 1280 | 1310 | 1320 | 1400 | 1860 | 2330 | 2610 | 2330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 499832 | 3526754 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 480 | 2040 | 1440 | 1570 | 1660 | 1690 | 1710 | 1810 | 1860 | 1030 | 1160 | 1030 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 499873 | 3521926 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 500677 | 3524340 | 350 | 380 | 380 | 380 | 380 | 380 | 550 | 550 | 550 | 760 | 380 | 440 | 330 | 330 | 330 | 330 | 330 | 250 | 250 | 250 | 230 | 310 | 310 | 310 | 310 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 500677 | 3525145 | 350 | 380 | 380 | 380 | 380 | 380 | 550 | 550 | 550 | 760 | 0 | 890 | 1000 | 1000 | 1000 | 1000 | 1000 | 780 | 780 | 780 | 710 | 960 | 960 | 960 | 960 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 500677 | 3525950 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 850 | 450 | 520 | 520 | 520 | 520 | 520 | 520 | 190 | 190 | 190 | 170 | 220 | 220 | 340 | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 500677 | 3526754 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 500677 | 3527559 | 0 | 40 | 40 | 40 | 40 | 40 | 60 | 60 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 500677 | 3528364 | 0 | 40 | 40 | 40 | 40 | 40 | 60 | 60 | 60 | 0 | 0 | 0 | 0 | 0 | 510 | 510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 501482 | 3523536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 501482 | 3525950 | 0 | 230 | 230 | 230 | 700 | 700 | 790 | 790 | 790 | 420 | 460 | 530 | 530 | 530 | 530 | 530 | 530 | 190 | 190 | 190 | 170 | 230 | 230 | 230 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 501482 | 3527559 | 0 | 40 | 40 | 40 | 40 | 40 | 60 | 60 | 60 | 1270 | 320 | 730 | 1030 | 1030 | 1030 | 1030 | 1030 | 290 | 290 | 290 | 270 | 580 | 580 | 580 | 580 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 501482 | 3528364 | 0 | 40 | 40 | 40 | 40 | 40 | 60 | 60 | 60 | 0 | 320 | 370 | 510 | 510 | 0 | 0 | 510 | 150 | 150 | 150 | 130 | 290 | 290 | 290 | 290 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 502287 | 3524340 | 0 | 0 | 0 | 0 | 310 | 310 | 320 | 320 | 320 | 320 | 480 | 550 | 740 | 740 | 740 | 740 | 740 | 390 | 390 | 390 | 360 | 320 | 480 | 480 | 480 | 520 | 470 | 450 | 640 | 700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 502287 | 3525145 | 610 | 310 | 310 | 310 | 310 | 310 | 0 | 0 | 320 | 320 | 480 | 550 | 370 | 370 | 370 | 370 | 370 | 200 | 200 | 200 | 180 | 160 | 160 | 160 | 160 | 410 | 420 | 430 | 440 | 510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 502287 | 3527559 | 620 | 420 | 420 | 420 | 420 | 420 | 250 | 250 | 250 | 570 | 0 | 460 | 250 | 250 | 250 | 250 | 250 | 360 | 360 | 360 | 310 | 730 | 400 | 310 | 340 | 810 | 10 | 520 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 502287 | 3528364 | 310 | 550 | 550 | 550 | 550 | 550 | 250 | 250 | 250 | 580 | 410 | 470 | 260 | 260 | 260 | 260 | 260 | 370 | 370 | 370 | 310 | 0 | 0 | 100 | 120 | 0 | 60 | 290 | 290 | 50 | 10 | 10 | 10 | 10 | 80 | 10 | 10 | 10 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 503091 | 3524340 | 590 | 300 | 300 | 300 | 300 | 300 | 640 | 640 | 320 | 320 | 480 | 560 | 370 | 370 | 370 | 370 | 370 | 200 | 200 | 200 | 180 | 160 | 160 | 160 | 160 | 80 | 50 | 50 | 60 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 503091 | 3527559 | 0 | 0 | 0 | 0 | 0 | 0 | 250 | 250 | 250 | 580 | 410 | 470 | 260 | 260 | 260 | 260 | 260 | 370 | 370 | 370 | 310 | 360 | 410 | 310 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1813 | 503091 | 3528364 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 470 | 260 | 260 | 260 | 260 | 260 | 370 | 370 | 370 | 310 | 360 | 220 | 210 | 230 | 0 | 140 | 290 | 290 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1814 | 503896 | 3527559 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 70 | 70 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1814 | 503896 | 3528364 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 70 | 70 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1814 | 504701 | 3527559 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 70 | 70 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1814 | 504701 | 3528364 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 70 | 70 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1814 | 506310 | 3526754 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 530 | 300 | 370 | 550 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 495849 | 3511466 | 40 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 840 | 460 | 860 | 1030 | 360 | 120 | 610 | 600 | 530 | 760 | 2390 | 960 | 870 | 700 | 1470 | 1390 | 220 | 310 |
| D1913 | 495849 | 3512270 | 40 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 110 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 140 | 140 | 140 | 80 | 80 | 80 | 80 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 495849 | 3513075 | 0 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 120 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 320 | 320 | 320 | 170 | 130 | 130 | 0 | 130 | 270 | 500 | 360 | 680 | 270 | 1860 | 2060 | 1900 | 2000 | 2440 | 2790 | 0 | 0 | 140 | 0 | 0 | 0 | 0 |
| D1913 | 495849 | 3513880 | 0 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 120 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 390 | 390 | 390 | 210 | 130 | 130 | 0 | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2140 | 0 | 0 | 0 |
| D1913 | 496614 | 3512270 | 40 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 496654 | 3511466 | 40 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 110 | 0 | 220 | 220 | 220 | 220 | 220 | 220 | 150 | 150 | 150 | 160 | 160 | 160 | 160 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 496654 | 3513075 | 0 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 120 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 240 | 240 | 240 | 130 | 130 | 130 | 0 | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2140 | 2510 | 2120 | 0 | 2030 | 650 | 1080 |
| D1913 | 496654 | 3513880 | 0 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 120 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 240 | 240 | 240 | 130 | 130 | 130 | 0 | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 497418 | 3514684 | 0 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 497459 | 3513075 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140 | 230 | 230 | 230 | 230 | 230 | 0 | 0 | 0 | 0 | 70 | 70 | 70 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 497459 | 3513880 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 270 | 270 | 460 | 460 | 460 | 460 | 460 | 0 | 0 | 0 | 0 | 150 | 150 | 150 | 150 | 0 | 200 | 680 | 690 | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 30 |
| D1913 | 497459 | 3515489 | 0 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1490 | 2370 | 2640 | 2670 | 2700 | 3100 | 2810 | 2740 | 2680 | 2480 | 2800 | 2650 | 850 | 1400 |
| D1913 | 497459 | 3516294 | 0 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 330 | 330 | 980 | 980 | 980 | 980 | 980 | 330 | 330 | 330 | 170 | 170 | 170 | 170 | 170 | 650 | 240 | 800 | 830 | 390 | 0 | 0 | 30 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 497459 | 3517903 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 80 | 80 | 80 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 497459 | 3518708 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 80 | 80 | 80 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 498263 | 3514684 | 0 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 970 | 970 | 1450 | 1450 | 1450 | 1450 | 1450 | 480 | 480 | 480 | 260 | 560 | 560 | 560 | 560 | 500 | 390 | 430 | 610 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 498263 | 3515489 | 0 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 498263 | 3517903 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 80 | 80 | 80 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1913 | 498263 | 3518708 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 80 | 80 | 80 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DUVAL | 496091 | 3511466 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 1590 | 1170 | 1110 | 970 | 1870 | 0 | 1110 | 1080 | 1100 | 0 | 0 | 370 | 580 |
| DUVAL | 496091 | 3513075 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DUVAL | 496654 | 3514684 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1590 | 2130 | 1730 | 1950 | 2220 | 2250 | 1340 | 2300 | 2040 | 1870 | 1770 | 570 | 940 |
| DUVAL | 498223 | 3517098 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2030 | 0 | 0 | 0 |
| DUVAL | 499068 | 3517098 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1060 | 0 | 0 | 0 | 0 | 2090 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DUVAL | 499873 | 3517098 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1680 | 1760 | 1610 | 1710 | 0 | 2110 | 1990 | 1910 | 1980 | 0 | 1920 | 610 | 1020 |
| E02 | 501643 | 3521926 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 30 | 20 | 10 | 40 | 30 | 20 | 40 | 20 | 20 | 30 | 40 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E04 | 502488 | 3525145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 800 | 640 | 350 | 440 | 460 | 410 | 280 | 340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E05A | 502184 | 3524332 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 40 | 40 | 30 | 30 | 30 | 40 | 40 | 30 | 50 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E06 | 502425 | 3525169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 710 | 490 | 250 | 480 | 260 | 220 | 400 | 540 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E14 | 503292 | 3524340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 50 | 50 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 499068 | 3518708 | 0 | 190 | 190 | 180 | 180 | 180 | 180 | 170 | 170 | 110 | 230 | 190 | 370 | 370 | 370 | 370 | 370 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 499873 | 3518708 | 0 | 190 | 190 | 180 | 180 | 180 | 180 | 170 | 170 | 110 | 120 | 90 | 190 | 190 | 190 | 190 | 190 | 290 | 540 | 330 | 0 | 0 | 370 | 470 | 560 | 330 | 360 | 350 | 450 | 1000 | 1580 | 1650 | 1310 | 1710 | 1560 | 2870 | 2580 | 1950 | 1940 | 1780 | 1730 | 780 | 1000 |
| FICO | 499873 | 3520317 | 300 | 460 | 460 | 430 | 430 | 430 | 150 | 150 | 150 | 770 | 730 | 580 | 1050 | 1050 | 1050 | 1050 | 1050 | 2080 | 1080 | 960 | 740 | 730 | 670 | 430 | 620 | 260 | 450 | 360 | 640 | 540 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 499873 | 3521122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 710 | 530 | 420 | 420 | 420 | 420 | 420 | 420 | 0 | 0 | 590 | 410 | 760 | 570 | 360 | 450 | 180 | 420 | 250 | 580 | 430 | 120 | 100 | 90 | 90 | 80 | 50 | 30 | 20 | 0 | 20 | 30 | 20 | 20 |
| FICO | 500114 | 3521122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 500677 | 3519512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 360 | 560 | 560 | 560 | 560 | 560 | 560 | 130 | 250 | 220 | 350 | 310 | 270 | 350 | 350 | 210 | 240 | 190 | 310 | 270 | 200 | 180 | 250 | 250 | 230 | 70 | 280 | 200 | 70 | 150 | 170 | 160 | 130 |
| FICO | 500677 | 3520317 | 0 | 0 | 0 | 0 | 0 | 0 | 740 | 700 | 700 | 1140 | 350 | 280 | 280 | 280 | 280 | 280 | 280 | 660 | 460 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 500677 | 3521122 | 0 | 0 | 0 | 0 | 0 | 0 | 560 | 530 | 530 | 560 | 680 | 540 | 540 | 540 | 540 | 540 | 540 | 260 | 410 | 360 | 190 | 340 | 240 | 280 | 290 | 240 | 210 | 180 | 260 | 290 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 500677 | 3521926 | 1620 | 1770 | 1770 | 1680 | 1680 | 1680 | 560 | 530 | 530 | 560 | 680 | 540 | 540 | 540 | 540 | 540 | 540 | 1360 | 1070 | 860 | 560 | 660 | 430 | 460 | 580 | 130 | 520 | 420 | 550 | 530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 500677 | 3522731 | 1550 | 840 | 840 | 800 | 800 | 800 | 0 | 0 | 0 | 890 | 620 | 490 | 500 | 500 | 500 | 500 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 500677 | 3523536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 310 | 240 | 240 | 240 | 240 | 240 | 240 | 1820 | 1000 | 530 | 0 | 0 | 390 | 450 | 700 | 310 | 380 | 370 | 680 | 600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 501482 | 3521926 | 0 | 0 | 0 | 0 | 0 | 0 | 570 | 540 | 540 | 570 | 680 | 540 | 540 | 540 | 540 | 540 | 540 | 900 | 700 | 420 | 230 | 400 | 370 | 300 | 460 | 240 | 360 | 250 | 500 | 380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 502287 | 3523536 | 0 | 0 | 0 | 0 | 0 | 0 | 640 | 610 | 610 | 400 | 420 | 290 | 590 | 590 | 590 | 590 | 590 | 790 | 1390 | 1130 | 1140 | 980 | 850 | 780 | 890 | 920 | 1260 | 650 | 940 | 820 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 502287 | 3525950 | 0 | 210 | 210 | 200 | 200 | 200 | 800 | 760 | 760 | 990 | 690 | 550 | 730 | 730 | 730 | 730 | 730 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 502287 | 3526754 | 0 | 210 | 210 | 200 | 200 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 502287 | 3530778 | 0 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 250 | 150 | 0 | 370 | 530 | 530 | 530 | 530 | 530 | 930 | 400 | 530 | 740 | 750 | 720 | 620 | 1050 | 860 | 520 | 660 | 1010 | 680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 503091 | 3525145 | 0 | 0 | 0 | 0 | 580 | 580 | 610 | 580 | 580 | 380 | 700 | 560 | 750 | 750 | 750 | 750 | 750 | 570 | 660 | 560 | 480 | 740 | 660 | 550 | 880 | 460 | 510 | 310 | 910 | 640 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## TABLE 2. 1941-1983 WELL LOCATION AND PUMPING RATES FOR TRANSIENT SIMULATION (GPM), taken from ADWR Model (Mason and Bota, 2006)

| WellName | UTM83E | UTM83N | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FICO | 503091 | 3525950 | 0 | 210 | 210 | 200 | 200 | 200 | 0 | 0 | 0 | 0 | 0 | 550 | 370 | 370 | 370 | 370 | 370 | 1200 | 550 | 420 | 330 | 400 | 360 | 170 | 240 | 170 | 200 | 230 | 270 | 190 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 503091 | 3526754 | 0 | 210 | 210 | 200 | 200 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 503091 | 3531582 | 0 | 100 | 100 | 100 | 100 | 100 | 260 | 250 | 250 | 150 | 130 | 90 | 350 | 350 | 350 | 350 | 350 | 780 | 470 | 370 | 450 | 530 | 550 | 480 | 590 | 760 | 1610 | 540 | 690 | 2330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 503091 | 3533996 | 0 | 250 | 500 | 470 | 470 | 470 | 150 | 140 | 140 | 200 | 210 | 160 | 260 | 260 | 260 | 260 | 260 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 503091 | 3534801 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 210 | 330 | 520 | 520 | 520 | 520 | 520 | 460 | 220 | 370 | 500 | 580 | 610 | 480 | 550 | 220 | 770 | 530 | 450 | 380 | 240 | 320 | 270 | 310 | 940 | 1360 | 630 | 460 | 940 | 820 | 1040 | 970 | 780 |
| FICO | 503882 | 3531582 | 0 | 1520 | 1520 | 1440 | 1440 | 1440 | 1440 | 1370 | 1370 | 60 | 0 | 190 | 810 | 810 | 770 | 810 | 810 | 580 | 450 | 270 | 390 | 460 | 340 | 230 | 190 | 150 | 170 | 140 | 320 | 440 | 450 | 410 | 260 | 460 | 350 | 580 | 400 | 240 | 90 | 180 | 170 | 160 | 160 |
| FICO | 503896 | 3532387 | 610 | 330 | 330 | 320 | 310 | 320 | 320 | 300 | 300 | 390 | 440 | 350 | 330 | 330 | 330 | 330 | 330 | 1230 | 910 | 620 | 710 | 720 | 650 | 520 | 520 | 670 | 790 | 470 | 570 | 640 | 560 | 430 | 490 | 480 | 440 | 240 | 180 | 190 | 170 | 70 | 100 | 90 | 70 |
| FICO | 503896 | 3535606 | 250 | 140 | 140 | 130 | 130 | 130 | 0 | 0 | 0 | 0 | 210 | 170 | 170 | 170 | 170 | 170 | 170 | 330 | 220 | 200 | 320 | 290 | 330 | 230 | 270 | 110 | 210 | 210 | 330 | 250 | 260 | 210 | 250 | 260 | 130 | 510 | 390 | 260 | 310 | 440 | 560 | 520 | 420 |
| FICO | 503896 | 3536410 | 250 | 140 | 140 | 130 | 130 | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 400 | 730 | 730 | 840 | 810 | 750 | 780 | 720 | 620 | 610 | 260 | 530 | 680 | 630 | 510 |
| FICO | 503896 | 3537215 | 530 | 260 | 260 | 250 | 250 | 250 | 250 | 230 | 230 | 0 | 230 | 160 | 300 | 300 | 300 | 300 | 300 | 360 | 100 | 170 | 270 | 390 | 430 | 400 | 380 | 360 | 420 | 310 | 300 | 220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 503896 | 3538020 | 420 | 260 | 260 | 240 | 240 | 240 | 240 | 230 | 230 | 0 | 200 | 160 | 300 | 300 | 300 | 300 | 300 | 540 | 230 | 310 | 370 | 400 | 350 | 300 | 290 | 110 | 240 | 240 | 250 | 190 | 120 | 60 | 70 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 503896 | 3538824 | 0 | 770 | 770 | 740 | 740 | 740 | 1040 | 980 | 980 | 300 | 320 | 260 | 420 | 420 | 420 | 420 | 420 | 660 | 450 | 250 | 430 | 410 | 420 | 250 | 320 | 0 | 0 | 0 | 60 | 330 | 220 | 220 | 250 | 250 | 230 | 130 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 504701 | 3533192 | 600 | 330 | 330 | 310 | 310 | 310 | 310 | 300 | 300 | 450 | 450 | 350 | 330 | 330 | 330 | 330 | 330 | 520 | 380 | 270 | 240 | 250 | 240 | 170 | 190 | 220 | 270 | 160 | 190 | 250 | 200 | 220 | 300 | 150 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 504701 | 3533996 | 1020 | 550 | 550 | 530 | 530 | 530 | 580 | 550 | 550 | 1240 | 630 | 500 | 660 | 660 | 660 | 660 | 660 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 350 | 450 | 420 | 340 |
| FICO | 504701 | 3534801 | 1210 | 660 | 660 | 630 | 630 | 630 | 570 | 540 | 540 | 390 | 700 | 490 | 650 | 650 | 650 | 650 | 650 | 1200 | 1350 | 1110 | 1210 | 1360 | 940 | 820 | 910 | 1050 | 1010 | 860 | 1330 | 790 | 750 | 620 | 950 | 980 | 1060 | 1130 | 830 | 710 | 770 | 700 | 890 | 830 | 670 |
| FICO | 504701 | 3535606 | 250 | 140 | 140 | 130 | 130 | 130 | 520 | 490 | 490 | 320 | 210 | 170 | 170 | 170 | 170 | 170 | 170 | 570 | 640 | 380 | 390 | 360 | 370 | 340 | 380 | 380 | 480 | 320 | 410 | 370 | 360 | 310 | 360 | 300 | 20 | 600 | 470 | 540 | 460 | 380 | 490 | 460 | 370 |
| FICO | 504701 | 3536410 | 250 | 140 | 140 | 130 | 130 | 130 | 0 | 0 | 0 | 260 | 210 | 160 | 160 | 160 | 160 | 160 | 160 | 390 | 380 | 290 | 430 | 200 | 140 | 140 | 130 | 110 | 170 | 110 | 170 | 200 | 140 | 70 | 70 | 60 | 340 | 490 | 300 | 360 | 450 | 470 | 600 | 560 | 450 |
| FICO | 504701 | 3537215 | 530 | 360 | 360 | 340 | 340 | 340 | 340 | 320 | 320 | 0 | 540 | 420 | 540 | 540 | 540 | 540 | 540 | 340 | 310 | 230 | 220 | 190 | 240 | 290 | 330 | 320 | 470 | 310 | 430 | 350 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 504701 | 3538824 | 0 | 760 | 760 | 720 | 720 | 720 | 0 | 0 | 0 | 300 | 40 | 30 | 420 | 420 | 420 | 420 | 420 | 240 | 270 | 210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 504942 | 3537215 | 0 | 160 | 160 | 150 | 150 | 150 | 150 | 140 | 140 | 0 | 80 | 60 | 70 | 70 | 70 | 70 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 505505 | 3535606 | 1830 | 0 | 0 | 0 | 0 | 0 | 570 | 1080 | 1080 | 650 | 390 | 270 | 270 | 270 | 270 | 270 | 270 | 910 | 400 | 390 | 310 | 280 | 200 | 320 | 540 | 490 | 420 | 240 | 310 | 390 | 210 | 110 | 150 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO | 505505 | 3536410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 270 | 270 | 270 | 270 | 270 | 270 | 570 | 420 | 420 | 380 | 380 | 440 | 490 | 630 | 3450 | 660 | 530 | 740 | 830 | 450 | 530 | 420 | 490 | 400 | 180 | 360 | 260 | 220 | 210 | 270 | 250 | 200 |
| S27 | 504057 | 3532387 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 40 | 20 | 20 | 30 | 20 | 20 | 20 | 30 | 20 | 20 | 20 | 20 | 10 | 10 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S35 | 503373 | 3531582 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1130 | 790 | 570 | 740 | 920 | 740 | 650 | 710 | 460 | 1020 | 850 | 560 | 1060 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S38 | 503373 | 3534801 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140 | 80 | 150 | 170 | 230 | 170 | 120 | 190 | 70 | 380 | 160 | 40 | 80 | 50 | 70 | 70 | 80 | 490 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S39 | 504902 | 3531582 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 460 | 370 | 420 | 310 | 40 | 130 | 0 | 480 | 210 | 280 | 120 | 130 | 160 | 110 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S41 | 502528 | 3530778 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 20 | 20 | 290 | 190 | 190 | 0 | 270 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S42 | 505666 | 3536410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 160 | 10 | 10 | 20 | 20 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| W01 | 498987 | 3528364 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 10 | 20 | 20 | 20 | 10 | 10 | 20 | 10 | 20 | 10 | 10 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W06 | 504097 | 3538824 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 370 | 480 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W11 | 499792 | 3519564 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 260 | 540 | 830 | 570 | 310 | 560 | 640 | 690 | 540 | 570 |
| W11 | 499969 | 3520085 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 2310 | 2130 | 1570 | 830 | 1460 | 1340 | 1450 | 1250 | 1150 |
| | | **TOTAL GPM** | **15,290** | **16,370** | **16,880** | **16,300** | **17,650** | **17,660** | **18,420** | **18,400** | **18,690** | **24,580** | **23,860** | **27,830** | **31,500** | **33,630** | **33,680** | **34,450** | **34,700** | **36,800** | **31,990** | **31,870** | **29,320** | **33,500** | **31,100** | **28,890** | **34,590** | **24,320** | **31,100** | **30,600** | **36,660** | **44,020** | **28,430** | **28,420** | **28,750** | **28,060** | **33,390** | **39,950** | **29,610** | **24,330** | **28,020** | **25,890** | **27,810** | **17,290** | **16,690** |
| | | **TOTAL Ac-Ft** | **24,680** | **26,423** | **27,246** | **26,310** | **28,489** | **28,505** | **29,732** | **29,700** | **30,168** | **39,675** | **38,513** | **44,921** | **50,845** | **54,283** | **54,363** | **55,606** | **56,010** | **59,399** | **51,635** | **51,442** | **47,326** | **54,073** | **50,199** | **46,632** | **55,832** | **39,255** | **50,199** | **49,392** | **59,173** | **71,053** | **45,889** | **45,873** | **46,406** | **45,292** | **53,895** | **64,484** | **47,794** | **39,271** | **45,227** | **41,789** | **44,888** | **27,908** | **26,940** |

No pumping specified after 1983.

All pumping units in gallons per minute (gpm)

# TABLE 3. WELL LOCATIONS AND PUMPING RATES (GPM) FOR TRANSIENT SIMULATION FROM VARIOUS SOURCES

| Well Name | OWNER | Well Category | Registry ID | UTM83E | UTM83N | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-01 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623111 | 499931 | 3518793 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1232 | 946 | 1682 | 1565 | 1331 | 1445 | 862 | 1662 | 1038 |
| S-02 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623112 | 499133 | 3517459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2144 | 2024 | 1071 | 271 | 2027 | 1673 | 1850 | 2328 | 1266 |
| S-03 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623113 | 498136 | 3516037 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2317 | 1637 | 1734 | 1584 | 1670 | 1553 | 1592 | 1927 | 1122 |
| S-04 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623114 | 497344 | 3514807 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1820 | 1433 | 822 | 1796 | 1419 | 1566 | 1652 | 2038 | 1523 |
| S-05 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623115 | 496561 | 3513401 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 753 | 2576 | 1424 | 538 | 151 | 1403 | 1830 | 1834 | 1106 |
| S-06 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623116 | 496371 | 3511992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2356 | 791 | 1458 | 879 | 1211 | 1191 | 1883 | 935 |
| ESP1 | FREEPORT-MCMORAN SIERRITA INC | Esperanza Wells | 623102 | 499970 | 3526449 | 827 | 827 | 827 | 827 | 827 | 659 | 543 | 103 | 277 | 431 | 266 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 8 |
| ESP2 | FREEPORT-MCMORAN SIERRITA INC | Esperanza Wells | 623103 | 500242 | 3526925 | 413 | 413 | 413 | 413 | 413 | 330 | 271 | 51 | 138 | 216 | 133 | 17 | 0 | 0 | 0 | 0 | 3 | 38 | 8 | 71 | 173 | 7 |
| ESP3 | FREEPORT-MCMORAN SIERRITA INC | Esperanza Wells | 623104 | 500234 | 3527377 | 827 | 827 | 827 | 827 | 827 | 659 | 543 | 103 | 277 | 431 | 266 | 33 | 0 | 0 | 0 | 43 | 1 | 10 | 9 | 56 | 47 | 0 |
| ESP4 | FREEPORT-MCMORAN SIERRITA INC | Esperanza Wells | 623105 | 499917 | 3526133 | 827 | 827 | 827 | 827 | 827 | 659 | 543 | 103 | 277 | 431 | 266 | 33 | 0 | 0 | 0 | 1 | 6 | 305 | 71 | 81 | 435 | 782 |
| IW-22 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 200554 | 497370 | 3523270 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-23 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 200555 | 497369 | 3522971 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-24 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 200556 | 497372 | 3522634 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-03A | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 201732 | 497366 | 3521723 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-02A | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 216464 | 497469 | 3521338 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-05A | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219131 | 497526 | 3522758 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-27 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219136 | 497603 | 3522658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-28 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219137 | 497651 | 3523179 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-26 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219143 | 497652 | 3522307 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-25 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219596 | 497631 | 3521725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-29 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 222865 | 498071 | 3523080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-11 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 508235 | 497371 | 3523430 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 699 | 806 | 442 | 718 | 499 | 471 | 579 |
| IW-09 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 508236 | 497368 | 3522021 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 652 | 430 | 711 | 768 | 421 | 834 | 783 |
| IW-10 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 508237 | 497370 | 3523122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 363 | 259 | 331 | 442 | 302 | 570 | 297 |
| IW-08 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 508238 | 497370 | 3522208 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 275 | 347 | 340 | 327 | 431 | 457 |
| IW-12 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545555 | 497365 | 3523970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-13 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545556 | 497364 | 3524167 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-14 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545557 | 497367 | 3524373 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-15 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545558 | 497373 | 3524567 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-16 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545559 | 497371 | 3524783 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-17 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545560 | 497374 | 3525003 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-18 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545561 | 497374 | 3525170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-19 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545562 | 497374 | 3525343 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-20 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545563 | 497365 | 3525569 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-21 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545564 | 497375 | 3525773 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-06A | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545565 | 497381 | 3523709 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 375 | 207 | 222 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-01 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623129 | 496906 | 3521278 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 686 | 941 | 425 | 485 | 604 | 677 | 767 | 643 | 719 | 647 | 441 | 336 | 0 | 0 |
| IW-02 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623130 | 497485 | 3521360 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 620 | 1030 | 729 | 513 | 512 | 710 | 769 | 469 | 776 | 523 | 630 | 309 | 812 | 851 |
| IW-03 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623131 | 497366 | 3521720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 526 | 1049 | 691 | 287 | 622 | 658 | 729 | 510 | 800 | 687 | 652 | 438 | 718 | 666 |
| IW-04 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623132 | 497372 | 3522466 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 431 | 912 | 870 | 485 | 540 | 625 | 731 | 491 | 300 | 394 | 400 | 383 | 204 | 662 |
| IW-05 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623133 | 497370 | 3522815 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 154 | 489 | 352 | 265 | 248 | 453 | 294 | 822 | 689 | 776 | 702 | 815 | 524 |
| IW-07 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623135 | 496428 | 3521310 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 42 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MC-4 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220842 | 498626 | 3527773 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PS-1 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220861 | 499148 | 3529128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PS-2 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220862 | 499318 | 3529357 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PS-3 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220863 | 499570 | 3529350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PS-4 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220864 | 499153 | 3528830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MC-1 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221660 | 498913 | 3525205 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MC-3 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221661 | 498858 | 3526912 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FFS-1 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221662 | 498327 | 3524076 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FFS-2 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221663 | 498316 | 3524528 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FFS-3 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221664 | 498357 | 3525295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FFS-4 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221665 | 498354 | 3525934 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FFS-5 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221666 | 498346 | 3526693 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FFS-6 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221667 | 498330 | 3527287 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MC-2 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221761 | 499369 | 3526366 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kiewit | CALMAT CO | Other Wells | 583888 | 504190 | 3530600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SC23A | CITY OF TUCSON | Other Wells | 619897 | 506943 | 3538481 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 526 | 555 | 447 | 468 | 448 | 452 | 381 | 480 | 427 |
| SC24A | CITY OF TUCSON | Other Wells | 619898 | 507953 | 3538486 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 544 | 329 | 335 | 528 | 416 | 444 | 437 | 433 | 271 |
| CW10 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 207982 | 500975 | 3523255 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CW7 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 502546 | 499660 | 3528094 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 511 | 456 | 422 | 284 | 408 | 0 | 0 | 0 | 0 | 0 | 0 |
| CW8 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 543600 | 499799 | 3525661 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CW9 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 588121 | 501072 | 3528741 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Well Name | OWNER | Well Category | Registry ID | UTM83E | UTM83N | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NP2 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 605898 | 500909 | 3520050 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 27 | 25 | 20 | 22 | 21 | 0 | 0 |
| NP1 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 605899 | 501004 | 3529212 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 76 | 63 | 56 | 52 | 32 | 32 | 35 | 41 | 39 | 24 | 0 | 0 |
| CW11 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 608518 | 502442 | 3530984 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CW3 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 627483 | 500064 | 3523810 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 212 | 176 | 157 | 145 | 142 | 5 | 0 | 1 | 0 | 0 | 1 | 1 |
| CCofGV(CW-5) | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 627484 | 501234 | 3522497 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CW6 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 627485 | 500891 | 3525794 | 420 | 420 | 420 | 420 | 420 | 420 | 420 | 420 | 420 | 420 | 393 | 326 | 291 | 269 | 276 | 403 | 352 | 348 | 319 | 366 | 311 | 352 |
| 11caa | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 801179 | 501186 | 3526788 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 55 | 36 | 70 | 38 | 46 | 54 | 53 | 46 |
| ContSD39 | CONTINENTAL SCHOOL | Other Wells | 601769 | 504049 | 3522942 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 10 | 0 | 0 | 11 | 9 | 7 | 7 | 7 |
| CSD39 | CONTINENTAL SCHOOL | Other Wells | 638581 | 504049 | 3522942 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |
| CCofGV | COUNTRY CLUB OF GREEN VALLEY | Other Wells | 501760 | 501635 | 3527876 | 484 | 484 | 484 | 484 | 484 | 484 | 484 | 484 | 484 | 484 | 453 | 376 | 335 | 310 | 280 | 375 | 336 | 339 | 389 | 324 | 396 | 379 |
| Stoeckel | DORIS L & GEORGE M STOECKEL | Other Wells | 801401 | 496059 | 3518416 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| Olivas | E OLIVAS | Other Wells | 801154 | 503396 | 3531213 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 10 | 10 | 6 | 3 | 6 | 6 | 4 |
| E10A | FICO | Other Wells | 86931 | 502452 | 3523995 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 40 | 33 | 30 | 27 | 27 | 38 | 28 | 0 | 0 | 0 | 0 | 0 |
| 201058 | FICO | Other Wells | 201058 | 506980 | 3532009 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S52A | FICO | Other Wells | 534922 | 504806 | 3534853 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO543409 | FICO | Other Wells | 543409 | 500252 | 3521313 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S12 | FICO | Other Wells | 623981 | 505183 | 3535660 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 660 | 805 | 890 | 706 | 636 | 721 | 711 | 661 | 686 |
| S19 | FICO | Other Wells | 623982 | 504841 | 3532023 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 642 | 1076 | 1113 | 796 | 656 | 876 | 846 | 886 | 867 |
| S22 | FICO | Other Wells | 623983 | 503660 | 3531621 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 432 | 433 | 458 | 308 | 276 | 273 | 270 | 351 | 322 |
| S25 | FICO | Other Wells | 623985 | 503037 | 3533248 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 518 | 815 | 906 | 809 | 880 | 872 | 633 | 784 | 880 |
| S29 | FICO | Other Wells | 623986 | 503806 | 3535671 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 308 | 376 | 361 | 299 | 296 | 235 | 255 | 347 | 310 |
| S33 | FICO | Other Wells | 623988 | 503859 | 3532226 | 583 | 583 | 583 | 583 | 583 | 583 | 583 | 583 | 583 | 583 | 630 | 522 | 466 | 431 | 433 | 458 | 308 | 276 | 272 | 270 | 350 | 322 |
| FICO623990 | FICO | Other Wells | 623990 | 505931 | 3536661 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S40 | FICO | Other Wells | 623991 | 505004 | 3534851 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 846 | 967 | 999 | 854 | 758 | 844 | 682 | 761 | 897 |
| S43 | FICO | Other Wells | 623993 | 503813 | 3537068 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 527 | 517 | 526 | 356 | 520 | 477 | 458 | 506 | 370 |
| S44 | FICO | Other Wells | 623994 | 503859 | 3530811 | 0 | 0 | 0 | 0 | 351 | 329 | 197 | 249 | 288 | 0 | 0 | 0 | 0 | 830 | 1062 | 1134 | 892 | 747 | 818 | 936 | 976 | 882 |
| S45 | FICO | Other Wells | 623995 | 504834 | 3532831 | 0 | 0 | 0 | 194 | 1295 | 1521 | 937 | 1008 | 939 | 647 | 827 | 768 | 619 | 1245 | 1262 | 1525 | 1149 | 950 | 1076 | 1055 | 1139 | 1141 |
| S46 | FICO | Other Wells | 623996 | 502647 | 3532239 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 354 | 508 | 765 | 802 | 351 | 770 | 573 | 810 | 846 |
| S48 | FICO | Other Wells | 623997 | 504987 | 3537067 | 0 | 0 | 0 | 4 | 213 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 547 | 529 | 439 | 451 | 413 | 343 | 403 | 443 | 444 |
| S49 | FICO | Other Wells | 623998 | 504793 | 3538083 | 0 | 0 | 0 | 79 | 488 | 382 | 246 | 287 | 533 | 406 | 519 | 482 | 388 | 407 | 253 | 213 | 342 | 328 | 328 | 346 | 358 | 371 |
| S50 | FICO | Other Wells | 623999 | 504991 | 3538690 | 0 | 0 | 0 | 0 | 522 | 257 | 257 | 173 | 386 | 254 | 324 | 301 | 243 | 259 | 396 | 353 | 154 | 124 | 0 | 0 | 0 | 0 |
| S51 | FICO | Other Wells | 624000 | 503017 | 3535471 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 339 | 483 | 791 | 870 | 786 | 824 | 709 | 842 | 823 |
| S52 | FICO | Other Wells | 624001 | 504790 | 3535663 | 0 | 0 | 0 | 3 | 427 | 346 | 335 | 290 | 388 | 445 | 569 | 528 | 426 | 354 | 393 | 385 | 264 | 296 | 359 | 872 | 841 | 865 |
| S53 | FICO | Other Wells | 624002 | 503453 | 3532635 | 0 | 0 | 0 | 0 | 1130 | 57 | 34 | 37 | 49 | 36 | 46 | 43 | 34 | 1185 | 1267 | 1343 | 1101 | 1091 | 1100 | 1076 | 1060 | 1174 |
| S54 | FICO | Other Wells | 624003 | 503069 | 3531047 | 1337 | 1337 | 1337 | 1337 | 1337 | 1337 | 1337 | 1337 | 1337 | 1337 | 1251 | 1037 | 925 | 857 | 932 | 661 | 716 | 723 | 557 | 63 | 0 | 529 |
| S55 | FICO | Other Wells | 624004 | 502062 | 3531858 | 667 | 667 | 667 | 667 | 667 | 667 | 667 | 667 | 667 | 667 | 625 | 518 | 462 | 428 | 455 | 825 | 1014 | 875 | 1053 | 827 | 1049 | 1109 |
| S56 | FICO | Other Wells | 624005 | 505213 | 3534443 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 353 | 315 | 381 | 163 | 275 | 216 | 235 | 261 | 261 |
| C1 | FICO | Other Wells | 624008 | 503353 | 3529320 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 47 | 39 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO624008 | FICO | Other Wells | 624008 | 500844 | 3522312 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 61 | 67 | 90 | 44 | 0 | 0 | 0 | 0 |
| C4 | FICO | Other Wells | 624010 | 501760 | 3525384 | 1331 | 1331 | 1331 | 1331 | 1331 | 1331 | 1331 | 1331 | 1331 | 1331 | 1246 | 1033 | 922 | 853 | 822 | 1159 | 931 | 710 | 783 | 756 | 921 | 910 |
| E3A | FICO | Other Wells | 624011 | 502198 | 3523933 | 648 | 648 | 648 | 648 | 648 | 648 | 648 | 648 | 648 | 648 | 607 | 503 | 449 | 416 | 404 | 390 | 315 | 344 | 368 | 380 | 443 | 476 |
| E5A | FICO | Other Wells | 624012 | 502184 | 3524332 | 521 | 521 | 521 | 521 | 521 | 521 | 521 | 521 | 521 | 521 | 488 | 404 | 361 | 334 | 282 | 125 | 103 | 209 | 92 | 57 | 59 | 59 |
| E6 | FICO | Other Wells | 624013 | 502425 | 3525169 | 554 | 554 | 554 | 554 | 554 | 554 | 554 | 554 | 554 | 554 | 519 | 430 | 384 | 355 | 351 | 476 | 305 | 258 | 277 | 292 | 337 | 314 |
| E7 | FICO | Other Wells | 624014 | 503086 | 3525553 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 4 |
| E8 | FICO | Other Wells | 624015 | 502374 | 3525166 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 195 | 162 | 144 | 134 | 172 | 234 | 243 | 196 | 146 | 193 | 172 | 236 |
| E9 | FICO | Other Wells | 624016 | 500862 | 3521222 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 256 | 213 | 190 | 176 | 214 | 153 | 68 | 162 | 162 | 156 | 214 | 171 |
| FICO624017 | FICO | Other Wells | 624017 | 502434 | 3523937 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| E11A | FICO | Other Wells | 624018 | 502092 | 3527822 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 438 | 363 | 324 | 300 | 325 | 191 | 100 | 245 | 296 | 294 | 304 | 373 |
| E12 | FICO | Other Wells | 624019 | 500635 | 3520347 | 490 | 490 | 490 | 490 | 490 | 490 | 490 | 490 | 490 | 490 | 458 | 380 | 339 | 314 | 341 | 447 | 325 | 202 | 199 | 183 | 190 | 232 |
| E13 | FICO | Other Wells | 624020 | 503122 | 3526403 | 1130 | 1130 | 1130 | 1130 | 1130 | 1130 | 1130 | 1130 | 1130 | 1130 | 1057 | 877 | 782 | 724 | 881 | 968 | 609 | 528 | 620 | 697 | 714 | 765 |
| E15 | FICO | Other Wells | 624022 | 500333 | 3518794 | 0 | 0 | 0 | 0 | 393 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 409 | 319 | 390 | 391 | 276 | 261 | 296 | 289 | 305 |
| E16 | FICO | Other Wells | 624023 | 503328 | 3525727 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 656 | 544 | 485 | 449 | 573 | 624 | 404 | 394 | 436 | 464 | 471 | 456 |
| W9 | FICO | Other Wells | 624024 | 501271 | 3524132 | 856 | 856 | 856 | 856 | 856 | 856 | 856 | 856 | 856 | 856 | 801 | 664 | 593 | 549 | 616 | 612 | 558 | 411 | 607 | 614 | 659 | 604 |
| W11 | FICO | Other Wells | 624025 | 499969 | 3520085 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 10 | 9 | 8 | 186 | 690 | 744 | 501 | 548 | 494 | 524 | 486 |
| W12 | FICO | Other Wells | 624026 | 500156 | 3521299 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 862 | 714 | 638 | 590 | 600 | 744 | 627 | 545 | 611 | 643 | 758 | 736 |
| NP2 | FICO | Other Wells | 624028 | 500929 | 3519541 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO624042 | FICO | Other Wells | 624042 | 502790 | 3531624 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 608517 | FREEPORT-MCMORAN SIERRITA INC | Other Wells | 608517 | 497370 | 3529040 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 179 |
| GVINV_625711 | GREEN VALLEY INVESTORS | Other Wells | 625711 | 501568 | 3526181 | 689 | 689 | 689 | 689 | 689 | 689 | 689 | 689 | 689 | 689 | 646 | 535 | 477 | 442 | 445 | 445 | 448 | 240 | 266 | 235 | 192 | 205 |
| GVINV_625712 | GREEN VALLEY INVESTORS | Other Wells | 625712 | 501600 | 3526400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 199 | 176 | 244 | 229 |
| GVDWID-Canoa | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 586729 | 497325 | 3516610 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GV1 | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 603428 | 499813 | 3522254 | 663 | 663 | 663 | 663 | 663 | 663 | 663 | 663 | 663 | 663 | 621 | 514 | 459 | 425 | 352 | 442 | 471 | 454 | 664 | 499 | 693 | 666 |
| GV2 | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 603429 | 499786 | 3521650 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 332 | 275 | 246 | 228 | 407 | 478 | 434 | 458 | 739 | 689 | 556 | 572 |

# TABLE 3. WELL LOCATIONS AND PUMPING RATES (GPM)
# FOR TRANSIENT SIMULATION FROM VARIOUS SOURCES

| Well Name | OWNER | Well Category | Registry ID | UTM83E | UTM83N | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 603430 | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 603430 | 497134 | 3519902 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 603504 | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 603504 | 496754 | 3518699 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 1 | 1 |
| GVDWID-SI | GREEN VALLEY WATER COMPANY | Other Wells | 208825 | 497227 | 3519510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HavenGC | HAVEN GOLF ASSOC | Other Wells | 515867 | 501609 | 3526344 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spafford_Jack | J C SPAFFORD | Other Wells | 602952 | 495920 | 3518583 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 |
| LosArboles | JERO INVESTORS | Other Wells | 610277 | 502467 | 3533753 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 164 | 18 | 23 | 25 | 28 | 0 | 0 | 0 |
| Duckett | KEITH DUCKETT | Other Wells | 800365 | 508809 | 3533012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ST7 | LAS QUINTAS SERENAS WATER CO | Other Wells | 566940 | 500778 | 3531036 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ST6 | LAS QUINTAS SERENAS WATER CO | Other Wells | 608530 | 501248 | 3531353 | 0 | 0 | 0 | 0 | 73 | 73 | 73 | 73 | 73 | 73 | 68 | 57 | 50 | 47 | 60 | 0 | 50 | 61 | 92 | 78 | 81 | 92 |
| ST5 | LAS QUINTAS SERENAS WATER CO | Other Wells | 608531 | 500619 | 3531941 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 87 | 87 | 87 | 81 | 67 | 60 | 56 | 59 | 0 | 67 | 60 | 47 | 46 | 55 | 43 |
| Jurs | LAURIE JURS | Other Wells | 801442 | 496055 | 3519512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 10 | 5 | 5 | 5 | 5 | 20 |
| LosArboles | LOS ARBOLES COMMUNITY 2 LLC | Other Wells | 524178 | 502573 | 3533448 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 32 | 36 |
| Poole | M POOLE | Other Wells | 801975 | 495659 | 3519508 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2 |
| Madera_Highlands | MADERA HIGHLANDS OWNERS ASSOC | Other Wells | 624019 | 503285 | 3526162 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 | 101 | 132 | 96 | 60 | 59 | 184 | 191 | 232 |
| OcotilloCommunity | OCOTILLO COMMUNITY | Other Wells | 801309 | 498963 | 3511412 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 2 | 7 | 5 | 4 |
| PimaCoCanoaRanch | PIMA CO | Other Wells | 623128 | 498467 | 3517655 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 801075 | PIMA CO | Other Wells | 801075 | 503396 | 3531617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sahuarita2 | PIMA CO PARKS & RECREATION DEPT | Other Wells | 534039 | 502953 | 3538272 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 203265 | PIMA CO SOLID WASTE MANAGEMENT | Other Wells | 203265 | 500739 | 3534868 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SAH-2B | PIMA CO SOLID WASTE MANAGEMENT | Other Wells | 211809 | 500959 | 3534907 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pollux1 | POLLUX PROPERTIES LLC | Other Wells | 213787 | 504871 | 3514658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Davis | R A DAVIS | Other Wells | 621257 | 506996 | 3533678 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S31 | R S WALDEN | Other Wells | 623987 | 505995 | 3537476 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 312 | 357 | 304 | 278 | 256 | 280 | 240 | 341 | 338 |
| RanchoSonado | RANCHO SONADO LLC | Other Wells | 507495 | 496705 | 3510791 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Underdown | RANCHO SONADO LLC | Other Wells | 626063 | 496709 | 3511387 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 23 | 22 | 20 | 16 | 27 | 13 | 18 | 12 |
| Estrada | RICARDO G & ELIZABETH ESTRADA | Other Wells | 603835 | 502489 | 3531323 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 19 | 1 | 13 | 1 | 1 | 1 | 1 | 1 |
| Wilson | ROBERT & PEGGY WILSON | Other Wells | 640149 | 509102 | 3533110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 1 |
| Davis_Robert | ROBERT DAVIS | Other Wells | 516216 | 507647 | 3533428 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 20 | 25 | 21 |
| AN-2(RRQC2) | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608519 | 503457 | 3529250 | 1548 | 1548 | 1548 | 1548 | 1130 | 1130 | 1130 | 1130 | 1130 | 1130 | 1189 | 1220 | 126 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| AN-4(RRQC1) | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608521 | 503457 | 3527990 | 0 | 0 | 0 | 0 | 1130 | 1130 | 1130 | 1130 | 1130 | 1130 | 1278 | 664 | 58 | 69 | 60 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| QCWC_No13 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608522 | 504788 | 3528380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 7 |
| AN1 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608589 | 502595 | 3527990 | 2323 | 2323 | 2323 | 2323 | 1130 | 1130 | 1130 | 1130 | 1130 | 1130 | 1265 | 1247 | 166 | 10 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 608594 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608594 | 503823 | 3527583 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| QCWC_No11 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608597 | 505964 | 3526918 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| QCWC_No16 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608598 | 506962 | 3526858 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lawyers | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608599 | 504207 | 3527782 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rosemont2 | ROSEMONT COPPER COMPANY | Other Wells | 216391 | 508421 | 3533513 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUS_605342 | SAHUARITA SCH DIS 30 | Other Wells | 605342 | 501863 | 3535970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUS_605344 | SAHUARITA SCH DIS 30 | Other Wells | 605344 | 501863 | 3535970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 37 | 39 | 39 | 42 | 56 | 35 | 45 | 41 |
| SahVal_WC | SAHUARITA VILLAGE WT | Other Wells | 607626 | 503052 | 3536369 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 17 | 20 | 21 | 15 | 0 | 14 | 15 | 14 |
| SWC1 | SAHUARITA WATER COMPANY | Other Wells | 611144 | 502752 | 3537471 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rosemont1 | SANRITA PROPERTIES LLC | Other Wells | 214277 | 505997 | 3535073 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amado | STEWART TITLE & TRUST | Other Wells | 623888 | 495913 | 3511786 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 71 | 82 | 90 | 45 | 108 | 84 | 92 | 120 |
| Hoogerwerk_RL | THOMAS SAVILLE | Other Wells | 601910 | 509871 | 3532610 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TorresBlancas | TORRES BLANCAS HOLDINGS LLC | Other Wells | 543409 | 502409 | 3521313 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sahuarita | TOWN OF SAHUARITA | Other Wells | 611142 | 506745 | 3536662 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lamb | V G LAMB | Other Wells | 628534 | 505340 | 3535044 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 1 | 1 |
| ValVerde | VAL VERDE INC | Other Wells | 803064 | 502386 | 3531830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 3 | 0 | 4 | 3 | 4 | 5 | 4 |
| VVDN_WC | VALLE VERDE WATER | Other Wells | 602019 | 501674 | 3532142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 28 | 0 | 21 | 32 | 25 | 35 | 33 |
| Cox | W R COX | Other Wells | 604432 | 508795 | 3534015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 2 | 3 | 2 | 2 | 0 | 2 | 2 |
| Cox | W R COX | Other Wells | 627079 | 508795 | 3534015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 2 | 5 | 5 | 3 | 0 | 3 | 6 |
| I13 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 87309 | 498196 | 3528505 | 0 | 0 | 0 | 0 | 1068 | 1068 | 1068 | 1068 | 1068 | 1130 | 1130 | 1130 | 1130 | 1297 | 972 | 153 | 1 | 95 | 885 | 816 | 1157 | 1061 |
| RT1 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 504946 | 499811 | 3530971 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 538 | 1687 | 2230 | 2293 | 58 | 0 | 0 | 0 | 0 | 0 | 0 |
| I12 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608523 | 498110 | 3528580 | 0 | 0 | 0 | 0 | 1068 | 1068 | 1068 | 1068 | 1068 | 1130 | 1130 | 1130 | 1130 | 925 | 865 | 11 | 36 | 127 | 597 | 1005 | 976 | 960 |
| I11 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608524 | 497919 | 3528485 | 0 | 0 | 0 | 0 | 1068 | 1068 | 1068 | 1068 | 1068 | 1130 | 1130 | 1130 | 1130 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| I10 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608525 | 497798 | 3528469 | 0 | 0 | 0 | 0 | 1068 | 1068 | 1068 | 1068 | 1068 | 1130 | 1130 | 1130 | 1130 | 428 | 336 | 2 | 0 | 0 | 28 | 685 | 869 | 750 |
| I09 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608526 | 497823 | 3528672 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 109 | 0 | 0 |
| I07 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608528 | 497807 | 3528530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 621 | 4 | 0 | 0 | 589 | 846 | 666 | 740 |
| | | | | | Total GPM | 20,688 | 20,688 | 20,688 | 20,968 | 29,371 | 26,855 | 25,649 | 24,147 | 27,559 | 29,378 | 28,469 | 24,443 | 21,504 | 37,657 | 43,217 | 37,899 | 34,549 | 32,747 | 38,032 | 37,119 | 43,665 | 39,718 |
| | | | | | Total Ac-Ft | 33,393 | 33,393 | 33,393 | 33,845 | 47,408 | 43,347 | 41,400 | 38,976 | 44,483 | 47,419 | 45,952 | 39,453 | 34,710 | 60,782 | 69,757 | 61,173 | 55,765 | 52,857 | 61,388 | 59,915 | 70,481 | 64,110 |

Source:
- ADWR Wells55 Registry Database
- ELMA 2007
- Basin Wells Reports, 2011-2013
- FMI Sierrita ADWR Annual Reports
- ADWR Annual Reports

No pumping specified from 1941 to 1970.
All pumping units in gallons per minute (gpm)

## TABLE 3. WELL LOCATIONS AND PUMPING RATES (GPM) FOR TRANSIENT SIMULATION FROM VARIOUS SOURCES

| Well Name | OWNER | Well Category | Registry ID | UTM83E | UTM83N | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-01 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623111 | 499931 | 3518793 | 786 | 1703 | 1001 | 1407 | 1775 | 668 | 748 | 1582 | 1349 | 963 | 1739 | 1164 | 1882 | 1443 | 1431 | 1867 | 1414 | 928 | 1355 | 1396 | 1875 | 751 | 485 |
| S-02 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623112 | 499133 | 3517459 | 2423 | 1913 | 2156 | 2568 | 1971 | 892 | 607 | 1287 | 1210 | 600 | 1671 | 1326 | 1408 | 981 | 1515 | 1609 | 1781 | 1510 | 2004 | 1748 | 2192 | 856 | 553 |
| S-03 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623113 | 498136 | 3516037 | 1341 | 1294 | 1250 | 1808 | 1069 | 1192 | 1308 | 2146 | 1796 | 83 | 657 | 1993 | 1494 | 1640 | 1804 | 1853 | 1453 | 2269 | 2325 | 2355 | 2461 | 1211 | 634 |
| S-04 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623114 | 497344 | 3514807 | 1224 | 1373 | 1031 | 975 | 1533 | 1582 | 1946 | 2404 | 2199 | 884 | 2762 | 2442 | 2398 | 2233 | 2067 | 2451 | 2222 | 2745 | 2711 | 2321 | 2027 | 873 | 386 |
| S-05 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623115 | 496561 | 3513401 | 1309 | 2718 | 2566 | 2475 | 2136 | 2266 | 2646 | 1866 | 2117 | 1151 | 4 | 2641 | 2791 | 2840 | 2632 | 2482 | 2259 | 2385 | 2377 | 2234 | 2110 | 1074 | 624 |
| S-06 | FREEPORT-MCMORAN SIERRITA INC | Canoa Wells | 623116 | 496371 | 3511992 | 1652 | 2542 | 3276 | 2953 | 2479 | 3144 | 3036 | 1896 | 2584 | 3126 | 1167 | 1457 | 2268 | 2593 | 2370 | 2133 | 1916 | 2403 | 2050 | 1884 | 1944 | 963 | 751 |
| ESP1 | FREEPORT-MCMORAN SIERRITA INC | Esperanza Wells | 623102 | 499970 | 3526449 | 12 | 151 | 13 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 272 | 173 | 9 | 0 | 14 | 1 | 0 | 0 | 0 | 0 | 0 |
| ESP2 | FREEPORT-MCMORAN SIERRITA INC | Esperanza Wells | 623103 | 500242 | 3526925 | 92 | 172 | 22 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 8 | 143 | 308 | 367 | 43 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| ESP3 | FREEPORT-MCMORAN SIERRITA INC | Esperanza Wells | 623104 | 500234 | 3527377 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 44 | 259 | 598 | 96 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESP4 | FREEPORT-MCMORAN SIERRITA INC | Esperanza Wells | 623105 | 499917 | 3526133 | 211 | 380 | 1 | 14 | 1 | 5 | 0 | 0 | 1 | 0 | 12 | 45 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-22 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 200554 | 497370 | 3523270 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 262 | 479 | 337 | 352 | 366 | 353 | 324 | 306 | 329 | 280 | 171 |
| IW-23 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 200555 | 497369 | 3522971 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136 | 203 | 193 | 164 | 167 | 135 | 159 | 133 | 128 | 137 | 79 |
| IW-24 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 200556 | 497372 | 3522634 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 241 | 404 | 77 | 142 | 100 | 88 | 105 | 69 | 61 | 56 | 73 |
| IW-03A | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 201732 | 497366 | 3521723 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344 | 704 | 397 | 722 | 650 | 512 | 603 | 559 | 481 | 579 | 436 | 399 |
| IW-02A | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 216464 | 497469 | 3521338 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 409 | 450 | 348 | 358 | 335 | 239 | 226 | 184 |
| IW-05A | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219131 | 497526 | 3522758 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 63 | 66 | 40 | 18 | 0 |
| IW-27 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219136 | 497603 | 3522658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 138 | 3 | 59 | 214 |
| IW-28 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219137 | 497651 | 3523179 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 274 | 346 | 278 | 240 |
| IW-26 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219143 | 497652 | 3522307 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 249 | 248 | 0 | 198 |
| IW-25 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 219596 | 497631 | 3521725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 324 | 425 | 424 | 400 |
| IW-29 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 222865 | 498071 | 3523080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 145 | 460 |
| IW-11 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 508235 | 497371 | 3523430 | 466 | 458 | 632 | 65 | 365 | 58 | 165 | 494 | 5 | 839 | 495 | 590 | 538 | 278 | 377 | 363 | 326 | 292 | 270 | 386 | 343 | 119 | 142 |
| IW-09 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 508236 | 497368 | 3522021 | 524 | 705 | 580 | 497 | 277 | 216 | 125 | 318 | 231 | 758 | 116 | 251 | 74 | 261 | 214 | 266 | 252 | 234 | 200 | 233 | 383 | 225 | 266 |
| IW-10 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 508237 | 497370 | 3523122 | 594 | 780 | 728 | 205 | 295 | 563 | 672 | 252 | 0 | 479 | 178 | 115 | 352 | 291 | 353 | 350 | 346 | 343 | 330 | 304 | 276 | 236 | 194 |
| IW-08 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 508238 | 497370 | 3522208 | 470 | 297 | 210 | 108 | 0 | 0 | 0 | 2 | 1 | 5 | 585 | 971 | 709 | 349 | 440 | 423 | 430 | 425 | 414 | 257 | 183 | 104 | 0 |
| IW-12 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545555 | 497365 | 3523970 | 0 | 0 | 0 | 45 | 200 | 305 | 299 | 338 | 126 | 64 | 214 | 138 | 79 | 135 | 166 | 154 | 157 | 151 | 123 | 123 | 131 | 79 | 86 |
| IW-13 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545556 | 497364 | 3524167 | 0 | 0 | 0 | 17 | 59 | 24 | 64 | 0 | 0 | 13 | 72 | 67 | 22 | 33 | 26 | 25 | 25 | 25 | 23 | 23 | 22 | 6 | 0 |
| IW-14 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545557 | 497367 | 3524373 | 0 | 0 | 0 | 30 | 188 | 178 | 137 | 156 | 89 | 129 | 0 | 84 | 94 | 88 | 89 | 78 | 161 | 64 | 52 | 69 | 38 | 45 | 32 |
| IW-15 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545558 | 497373 | 3524567 | 0 | 0 | 0 | 15 | 112 | 92 | 90 | 102 | 14 | 0 | 17 | 22 | 30 | 41 | 46 | 49 | 49 | 47 | 37 | 47 | 46 | 33 | 20 |
| IW-16 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545559 | 497371 | 3524783 | 0 | 0 | 0 | 0 | 49 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 9 | 9 | 8 | 0 | 0 | 0 | 0 | 0 |
| IW-17 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545560 | 497374 | 3525003 | 0 | 0 | 0 | 33 | 205 | 169 | 134 | 95 | 66 | 67 | 0 | 83 | 28 | 9 | 9 | 8 | 6 | 3 | 0 | 0 | 0 | 0 | 0 |
| IW-18 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545561 | 497374 | 3525170 | 0 | 0 | 0 | 21 | 128 | 80 | 55 | 37 | 0 | 0 | 0 | 50 | 3 | 8 | 9 | 9 | 7 | 6 | 0 | 0 | 0 | 0 | 0 |
| IW-19 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545562 | 497374 | 3525343 | 0 | 0 | 0 | 51 | 189 | 256 | 264 | 229 | 135 | 0 | 0 | 169 | 195 | 179 | 154 | 206 | 197 | 186 | 159 | 149 | 120 | 163 | 94 |
| IW-20 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545563 | 497365 | 3525569 | 0 | 0 | 0 | 25 | 169 | 94 | 111 | 121 | 42 | 115 | 162 | 88 | 78 | 74 | 44 | 44 | 35 | 32 | 32 | 34 | 27 | 23 | 4 |
| IW-21 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545564 | 497375 | 3525773 | 0 | 0 | 0 | 30 | 217 | 219 | 106 | 172 | 130 | 242 | 217 | 86 | 159 | 153 | 159 | 148 | 177 | 163 | 123 | 107 | 101 | 47 | 114 |
| IW-06A | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 545565 | 497381 | 3523709 | 0 | 0 | 0 | 45 | 79 | 0 | 169 | 269 | 141 | 54 | 4 | 153 | 97 | 119 | 133 | 95 | 92 | 73 | 88 | 80 | 62 | 62 | 9 |
| IW-01 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623129 | 496906 | 3521278 | 0 | 253 | 18 | 0 | 3 | 141 | 682 | 447 | 79 | 233 | 412 | 404 | 23 | 358 | 327 | 298 | 267 | 229 | 213 | 361 | 345 | 202 | 223 |
| IW-02 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623130 | 497485 | 3521360 | 673 | 436 | 249 | 333 | 98 | 322 | 460 | 631 | 811 | 321 | 417 | 804 | 708 | 580 | 473 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-03 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623131 | 497366 | 3521720 | 804 | 536 | 605 | 85 | 259 | 453 | 633 | 754 | 855 | 666 | 486 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IW-04 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623132 | 497372 | 3522466 | 645 | 687 | 482 | 635 | 579 | 473 | 494 | 523 | 221 | 448 | 19 | 534 | 171 | 242 | 210 | 122 | 88 | 78 | 71 | 42 | 69 | 76 | 55 |
| IW-05 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623133 | 497370 | 3522815 | 1002 | 1195 | 1093 | 1031 | 510 | 649 | 638 | 83 | 2 | 52 | 517 | 423 | 44 | 127 | 103 | 93 | 92 | 73 | 0 | 0 | 0 | 0 | 0 |
| IW-07 | FREEPORT-MCMORAN SIERRITA INC | Interceptor Wells | 623135 | 496428 | 3521310 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MC-4 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220842 | 498626 | 3527773 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 557 | 513 |
| PS-1 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220861 | 499148 | 3529128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 589 | 581 |
| PS-2 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220862 | 499318 | 3529357 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 592 | 586 |
| PS-3 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220863 | 499570 | 3529350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 591 | 582 |
| PS-4 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 220864 | 499153 | 3528830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 709 | 675 |
| MC-1 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221660 | 498913 | 3525205 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 844 | 789 |
| MC-3 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221661 | 498858 | 3526912 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 564 | 500 |
| FFS-1 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221662 | 498327 | 3524076 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 853 | 590 |
| FFS-2 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221663 | 498316 | 3524528 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 782 | 844 |
| FFS-3 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221664 | 498357 | 3525295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 244 | 264 |
| FFS-4 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221665 | 498354 | 3525934 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 178 | 151 |
| FFS-5 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221666 | 498346 | 3526693 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 956 | 926 |
| FFS-6 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221667 | 498330 | 3527287 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 553 | 550 |
| MC-2 | FREEPORT-MCMORAN SIERRITA INC | Mitigation Order Wells | 221761 | 499369 | 3526366 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 619 | 564 |
| Kiewit | CALMAT CO | Other Wells | 583888 | 504190 | 3530600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 0 | 0 | 0 | 182 | 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SC23A | CITY OF TUCSON | Other Wells | 619897 | 506943 | 3538481 | 331 | 391 | 545 | 466 | 502 | 450 | 487 | 407 | 451 | 382 | 0 | 0 | 0 | 0 | 398 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SC24A | CITY OF TUCSON | Other Wells | 619898 | 507953 | 3538486 | 0 | 289 | 402 | 386 | 399 | 402 | 198 | 432 | 464 | 396 | 466 | 430 | 415 | 0 | 440 | 267 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CW10 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 207982 | 500975 | 3523255 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 769 | 566 | 630 | 615 | 596 | 412 | 655 | 522 | 522 |
| CW7 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 502546 | 499660 | 3528094 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CW8 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 543600 | 499799 | 3525661 | 0 | 0 | 9 | 427 | 453 | 517 | 623 | 676 | 527 | 722 | 713 | 426 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CW9 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 588121 | 501072 | 3528741 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 202 | 396 | 551 | 304 | 354 | 227 | 328 | 389 | 463 | 387 | 203 | 415 | 415 |

## TABLE 3. WELL LOCATIONS AND PUMPING RATES (GPM) FOR TRANSIENT SIMULATION FROM VARIOUS SOURCES

| Well Name | OWNER | Well Category | Registry ID | UTM83E | UTM83N | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NP2 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 605898 | 500909 | 3520050 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NP1 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 605899 | 501004 | 3529212 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CW11 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 608518 | 502442 | 3530984 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 380 | 671 | 656 | 494 | 475 | 711 | 654 | 526 | 526 |
| CW3 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 627483 | 500064 | 3523810 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CCofGV(CW-5) | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 627484 | 501234 | 3522497 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 302 | 341 | 279 | 238 | 251 | 232 | 130 | 130 | 130 |
| CW6 | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 627485 | 500891 | 3525794 | 336 | 388 | 439 | 248 | 371 | 341 | 103 | 326 | 401 | 418 | 221 | 295 | 252 | 183 | 156 | 205 | 115 | 93 | 23 | 10 | 3 | 2 | 2 |
| 11caa | COMMUNITY WATER CO OF GREEN VALLEY | Other Wells | 801179 | 501186 | 3526788 | 42 | 58 | 46 | 41 | 35 | 42 | 31 | 28 | 37 | 48 | 37 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ContSD39 | CONTINENTAL SCHOOL | Other Wells | 601769 | 504049 | 3522942 | 0 | 0 | 0 | 0 | 0 | 6 | 17 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 0 | 0 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| CSD39 | CONTINENTAL SCHOOL | Other Wells | 638581 | 504049 | 3522942 | 8 | 7 | 7 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CCofGV | COUNTRY CLUB OF GREEN VALLEY | Other Wells | 501760 | 501635 | 3527876 | 364 | 388 | 440 | 453 | 407 | 378 | 376 | 353 | 340 | 393 | 371 | 289 | 117 | 54 | 121 | 82 | 159 | 211 | 167 | 159 | 262 | 262 | 262 |
| Stoeckel | DORIS L & GEORGE M STOECKEL | Other Wells | 801401 | 496059 | 3518416 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Olivas | E OLIVAS | Other Wells | 801154 | 503396 | 3531213 | 3 | 2 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E10A | FICO | Other Wells | 86931 | 502452 | 3523995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 201058 | FICO | Other Wells | 201058 | 506980 | 3532009 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 5 | 6 | 7 | 9 | 14 | 19 | 19 |
| S52A | FICO | Other Wells | 534922 | 504806 | 3534853 | 36 | 55 | 45 | 45 | 51 | 65 | 67 | 74 | 66 | 70 | 65 | 66 | 31 | 35 | 36 | 33 | 28 | 35 | 27 | 0 | 4 | 16 | 16 |
| FICO543409 | FICO | Other Wells | 543409 | 500252 | 3521313 | 0 | 0 | 258 | 492 | 350 | 322 | 308 | 306 | 281 | 284 | 251 | 255 | 330 | 330 | 0 | 331 | 372 | 349 | 361 | 309 | 328 | 328 | 328 |
| S12 | FICO | Other Wells | 623981 | 505183 | 3535660 | 579 | 620 | 590 | 677 | 591 | 535 | 642 | 663 | 639 | 624 | 580 | 603 | 779 | 871 | 930 | 838 | 819 | 764 | 799 | 809 | 854 | 732 | 732 |
| S19 | FICO | Other Wells | 623982 | 504841 | 3532023 | 757 | 854 | 658 | 866 | 841 | 659 | 785 | 771 | 736 | 795 | 831 | 915 | 846 | 937 | 879 | 849 | 805 | 484 | 527 | 0 | 0 | 0 | 0 |
| S22 | FICO | Other Wells | 623983 | 503660 | 3531621 | 501 | 403 | 351 | 301 | 288 | 221 | 76 | 305 | 319 | 262 | 373 | 448 | 388 | 466 | 425 | 328 | 425 | 394 | 386 | 278 | 349 | 349 | 349 |
| S25 | FICO | Other Wells | 623985 | 503037 | 3533248 | 204 | 817 | 807 | 754 | 778 | 704 | 683 | 874 | 749 | 795 | 776 | 700 | 828 | 943 | 1007 | 884 | 801 | 748 | 581 | 742 | 694 | 694 | 694 |
| S29 | FICO | Other Wells | 623986 | 503806 | 3535671 | 275 | 222 | 233 | 200 | 242 | 204 | 207 | 391 | 305 | 317 | 377 | 363 | 363 | 407 | 456 | 435 | 470 | 358 | 383 | 395 | 413 | 413 | 413 |
| S33 | FICO | Other Wells | 623988 | 503859 | 3532226 | 500 | 403 | 351 | 301 | 288 | 221 | 76 | 305 | 319 | 261 | 831 | 406 | 405 | 344 | 434 | 405 | 434 | 407 | 367 | 382 | 384 | 384 | 384 |
| FICO623990 | FICO | Other Wells | 623990 | 505931 | 3536661 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S40 | FICO | Other Wells | 623991 | 505004 | 3534851 | 812 | 841 | 787 | 818 | 813 | 684 | 769 | 875 | 750 | 666 | 728 | 770 | 675 | 713 | 714 | 670 | 754 | 685 | 766 | 768 | 728 | 728 | 728 |
| S43 | FICO | Other Wells | 623993 | 503813 | 3537068 | 503 | 460 | 587 | 539 | 548 | 513 | 453 | 575 | 604 | 515 | 526 | 618 | 597 | 539 | 562 | 492 | 569 | 475 | 602 | 403 | 644 | 644 | 644 |
| S44 | FICO | Other Wells | 623994 | 503859 | 3530811 | 796 | 867 | 894 | 938 | 980 | 889 | 895 | 1179 | 985 | 1032 | 1028 | 1174 | 1024 | 1162 | 1048 | 1044 | 1100 | 931 | 1005 | 889 | 863 | 863 | 863 |
| S45 | FICO | Other Wells | 623995 | 504834 | 3532831 | 1014 | 1061 | 988 | 1032 | 834 | 914 | 1062 | 1091 | 1030 | 862 | 1029 | 1097 | 998 | 1011 | 1153 | 1262 | 1197 | 1041 | 1017 | 1122 | 1030 | 1030 | 1030 |
| S46 | FICO | Other Wells | 623996 | 502647 | 3532239 | 533 | 719 | 695 | 772 | 605 | 613 | 438 | 394 | 570 | 992 | 755 | 557 | 501 | 616 | 751 | 630 | 823 | 834 | 753 | 499 | 472 | 472 | 472 |
| S48 | FICO | Other Wells | 623997 | 504987 | 3537067 | 407 | 433 | 424 | 406 | 396 | 369 | 391 | 406 | 368 | 294 | 344 | 443 | 429 | 436 | 487 | 404 | 411 | 337 | 361 | 355 | 357 | 357 | 357 |
| S49 | FICO | Other Wells | 623998 | 504793 | 3538083 | 333 | 255 | 245 | 253 | 245 | 206 | 253 | 243 | 247 | 245 | 238 | 334 | 292 | 292 | 306 | 337 | 344 | 347 | 349 | 335 | 336 | 336 | 336 |
| S50 | FICO | Other Wells | 623999 | 504991 | 3538690 | 0 | 82 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 157 | 164 | 152 | 158 | 114 | 124 | 130 | 152 | 152 | 152 |
| S51 | FICO | Other Wells | 624000 | 503017 | 3535471 | 653 | 1001 | 849 | 791 | 819 | 711 | 804 | 891 | 717 | 544 | 752 | 887 | 894 | 831 | 929 | 904 | 904 | 772 | 739 | 740 | 770 | 770 | 770 |
| S52 | FICO | Other Wells | 624001 | 504790 | 3535663 | 659 | 352 | 354 | 344 | 357 | 323 | 357 | 379 | 387 | 358 | 360 | 403 | 316 | 302 | 247 | 302 | 366 | 256 | 125 | 173 | 74 | 79 | 79 |
| S53 | FICO | Other Wells | 624002 | 503453 | 3532635 | 960 | 985 | 911 | 852 | 790 | 785 | 880 | 818 | 826 | 790 | 832 | 985 | 860 | 1239 | 1178 | 1157 | 1115 | 1038 | 947 | 970 | 992 | 992 | 992 |
| S54 | FICO | Other Wells | 624003 | 503069 | 3531047 | 732 | 970 | 1076 | 981 | 852 | 784 | 739 | 871 | 741 | 397 | 691 | 1090 | 1080 | 774 | 1113 | 987 | 1117 | 545 | 691 | 924 | 856 | 856 | 856 |
| S55 | FICO | Other Wells | 624004 | 502062 | 3531858 | 987 | 1081 | 1136 | 1034 | 944 | 1000 | 875 | 1020 | 1094 | 780 | 1032 | 1117 | 1092 | 1147 | 1173 | 1120 | 1180 | 932 | 1034 | 1079 | 1128 | 1128 | 1128 |
| S56 | FICO | Other Wells | 624005 | 505213 | 3534443 | 285 | 309 | 280 | 237 | 213 | 214 | 74 | 301 | 253 | 321 | 427 | 358 | 281 | 307 | 297 | 303 | 278 | 323 | 328 | 246 | 164 | 164 | 164 |
| C1 | FICO | Other Wells | 624008 | 503353 | 3529320 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO624008 | FICO | Other Wells | 624008 | 500844 | 3522312 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C4 | FICO | Other Wells | 624010 | 501760 | 3525384 | 852 | 833 | 1166 | 817 | 986 | 840 | 914 | 888 | 756 | 794 | 807 | 908 | 920 | 1112 | 1129 | 1093 | 1074 | 866 | 850 | 854 | 825 | 698 | 698 |
| E3A | FICO | Other Wells | 624011 | 502198 | 3523933 | 449 | 486 | 513 | 385 | 386 | 427 | 469 | 172 | 404 | 311 | 433 | 496 | 494 | 521 | 553 | 568 | 511 | 380 | 420 | 434 | 454 | 396 | 396 |
| E5A | FICO | Other Wells | 624012 | 502184 | 3524332 | 58 | 65 | 81 | 97 | 105 | 104 | 134 | 147 | 157 | 191 | 194 | 200 | 197 | 272 | 188 | 146 | 142 | 97 | 127 | 132 | 136 | 127 | 127 |
| E6 | FICO | Other Wells | 624013 | 502425 | 3525169 | 298 | 283 | 272 | 280 | 312 | 244 | 249 | 372 | 308 | 354 | 350 | 332 | 347 | 402 | 499 | 486 | 451 | 369 | 403 | 338 | 355 | 302 | 302 |
| E7 | FICO | Other Wells | 624014 | 503086 | 3525553 | 6 | 9 | 8 | 6 | 7 | 6 | 9 | 10 | 10 | 11 | 9 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E8 | FICO | Other Wells | 624015 | 502374 | 3525166 | 215 | 230 | 219 | 196 | 253 | 209 | 189 | 181 | 169 | 180 | 186 | 209 | 198 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E9 | FICO | Other Wells | 624016 | 500862 | 3521222 | 166 | 235 | 166 | 186 | 215 | 163 | 135 | 43 | 121 | 136 | 242 | 343 | 204 | 147 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FICO624017 | FICO | Other Wells | 624017 | 502434 | 3523937 | 0 | 391 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E11A | FICO | Other Wells | 624018 | 502092 | 3527822 | 294 | 339 | 298 | 246 | 341 | 332 | 378 | 329 | 305 | 283 | 446 | 496 | 501 | 445 | 517 | 505 | 520 | 371 | 413 | 469 | 513 | 513 | 513 |
| E12 | FICO | Other Wells | 624019 | 500635 | 3520347 | 220 | 263 | 242 | 228 | 249 | 176 | 171 | 163 | 183 | 144 | 146 | 126 | 287 | 0 | 38 | 0 | 43 | 39 | 38 | 39 | 18 | 18 | 18 |
| E13 | FICO | Other Wells | 624020 | 503122 | 3526403 | 621 | 724 | 700 | 697 | 768 | 636 | 734 | 667 | 664 | 612 | 705 | 827 | 261 | 48 | 81 | 156 | 184 | 231 | 204 | 195 | 208 | 207 | 207 |
| E15 | FICO | Other Wells | 624022 | 500333 | 3518794 | 287 | 439 | 474 | 266 | 301 | 236 | 252 | 247 | 259 | 305 | 487 | 527 | 543 | 587 | 741 | 791 | 787 | 557 | 654 | 639 | 560 | 560 | 560 |
| E16 | FICO | Other Wells | 624023 | 503328 | 3525727 | 404 | 411 | 436 | 353 | 430 | 388 | 423 | 387 | 400 | 395 | 466 | 469 | 427 | 429 | 541 | 568 | 462 | 349 | 494 | 354 | 366 | 366 | 366 |
| W9 | FICO | Other Wells | 624024 | 501271 | 3524132 | 468 | 684 | 692 | 555 | 718 | 569 | 681 | 506 | 544 | 453 | 538 | 530 | 587 | 520 | 568 | 574 | 593 | 410 | 370 | 366 | 253 | 253 | 253 |
| W11 | FICO | Other Wells | 624025 | 499969 | 3520085 | 549 | 767 | 541 | 400 | 488 | 407 | 462 | 568 | 500 | 494 | 177 | 198 | 186 | 181 | 170 | 177 | 181 | 165 | 171 | 159 | 174 | 160 | 160 |
| W12 | FICO | Other Wells | 624026 | 500156 | 3521299 | 746 | 0 | 599 | 561 | 690 | 462 | 568 | 557 | 609 | 602 | 717 | 669 | 698 | 575 | 734 | 713 | 778 | 651 | 696 | 723 | 665 | 524 | 524 |
| NP2 | FICO | Other Wells | 624028 | 500929 | 3519541 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 4 | 0 | 6 | 0 | 4 | 6 | 7 | 7 | 0 | 0 | 9 | 9 | 10 | 10 | 10 |
| FICO624042 | FICO | Other Wells | 624042 | 502790 | 3531624 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 608517 | FREEPORT-MCMORAN SIERRITA INC | Other Wells | 608517 | 497370 | 3529040 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GVINV_625711 | GREEN VALLEY INVESTORS | Other Wells | 625711 | 501568 | 3526181 | 241 | 276 | 220 | 255 | 232 | 223 | 274 | 260 | 237 | 225 | 220 | 193 | 204 | 198 | 364 | 341 | 476 | 434 | 444 | 408 | 400 | 400 | 400 |
| GVINV_625712 | GREEN VALLEY INVESTORS | Other Wells | 625712 | 501600 | 3526400 | 195 | 146 | 192 | 198 | 184 | 163 | 183 | 181 | 160 | 198 | 191 | 182 | 192 | 152 | 140 | 161 | 27 | 68 | 58 | 66 | 80 | 80 | 80 |
| GVDWID-Canoa | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 586729 | 497325 | 3516610 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 304 | 321 | 305 | 252 | 282 | 227 | 176 | 377 | 377 |
| GV1 | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 603428 | 499813 | 3522254 | 694 | 570 | 753 | 660 | 840 | 504 | 805 | 610 | 612 | 614 | 793 | 793 | 730 | 730 | 690 | 643 | 621 | 610 | 612 | 577 | 565 | 536 | 536 |
| GV2 | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 603429 | 499786 | 3521650 | 559 | 0 | 671 | 798 | 595 | 879 | 658 | 767 | 799 | 938 | 753 | 753 | 780 | 780 | 313 | 302 | 308 | 281 | 294 | 274 | 289 | 237 | 237 |

# TABLE 3. WELL LOCATIONS AND PUMPING RATES (GPM) FOR TRANSIENT SIMULATION FROM VARIOUS SOURCES

| Well Name | OWNER | Well Category | Registry ID | UTM83E | UTM83N | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 603430 | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 603430 | 497134 | 3519902 | 0 | 781 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 603504 | GREEN VALLEY MUNICIPAL PROPERTY CORP | Other Wells | 603504 | 496754 | 3518699 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GVDWID-SI | GREEN VALLEY WATER COMPANY | Other Wells | 208825 | 497227 | 3519510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 555 | 558 | 520 | 463 | 515 | 310 | 289 | 137 | 137 |
| HavenGC | HAVEN GOLF ASSOC | Other Wells | 515867 | 501609 | 3526344 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spafford_Jack | J C SPAFFORD | Other Wells | 602952 | 495920 | 3518583 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LosArboles | JERO INVESTORS | Other Wells | 610277 | 502467 | 3533753 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Duckett | KEITH DUCKETT | Other Wells | 800365 | 508809 | 3533012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ST7 | LAS QUINTAS SERENAS WATER CO | Other Wells | 566940 | 500778 | 3531036 | 0 | 0 | 0 | 0 | 0 | 10 | 78 | 107 | 150 | 86 | 240 | 196 | 243 | 329 | 316 | 260 | 310 | 292 | 315 | 289 | 284 | 274 | 274 |
| ST6 | LAS QUINTAS SERENAS WATER CO | Other Wells | 608530 | 501248 | 3531353 | 95 | 36 | 31 | 52 | 121 | 100 | 43 | 64 | 26 | 56 | 24 | 23 | 19 | 19 | 12 | 19 | 13 | 1 | 0 | 0 | 1 | 1 | 1 |
| ST5 | LAS QUINTAS SERENAS WATER CO | Other Wells | 608531 | 500619 | 3531941 | 56 | 142 | 157 | 156 | 93 | 113 | 147 | 103 | 93 | 165 | 36 | 80 | 54 | 17 | 8 | 43 | 15 | 15 | 3 | 5 | 30 | 2 | 2 |
| Jurs | LAURIE JURS | Other Wells | 801442 | 496055 | 3519512 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LosArboles | LOS ARBOLES COMMUNITY 2 LLC | Other Wells | 524178 | 502573 | 3533448 | 42 | 496 | 45 | 44 | 38 | 32 | 31 | 32 | 30 | 32 | 33 | 32 | 28 | 29 | 37 | 7 | 33 | 11 | 21 | 20 | 22 | 22 | 22 |
| Poole | M POOLE | Other Wells | 801975 | 495659 | 3519508 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Madera_Highlands | MADERA HIGHLANDS OWNERS ASSOC | Other Wells | 624019 | 503285 | 3526162 | 221 | 263 | 243 | 229 | 249 | 176 | 171 | 164 | 183 | 144 | 0 | 0 | 0 | 0 | 38 | 0 | 42 | 39 | 38 | 39 | 18 | 18 | 18 |
| OcotilloCommunity | OCOTILLO COMMUNITY | Other Wells | 801309 | 498963 | 3511412 | 8 | 5 | 12 | 12 | 20 | 22 | 8 | 8 | 11 | 14 | 10 | 11 | 11 | 11 | 13 | 12 | 13 | 11 | 11 | 14 | 12 | 12 | 12 |
| PimaCoCanoaRanch | PIMA CO | Other Wells | 623128 | 498467 | 3517655 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 4 | 4 | 4 |
| 801075 | PIMA CO | Other Wells | 801075 | 503396 | 3531617 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sahuarita2 | PIMA CO PARKS & RECREATION DEPT | Other Wells | 534039 | 502953 | 3538272 | 8 | 10 | 10 | 9 | 10 | 7 | 8 | 8 | 19 | 20 | 15 | 17 | 17 | 21 | 236 | 248 | 286 | 186 | 15 | 17 | 0 | 0 | 0 |
| 203265 | PIMA CO SOLID WASTE MANAGEMENT | Other Wells | 203265 | 500739 | 3534868 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SAH-2B | PIMA CO SOLID WASTE MANAGEMENT | Other Wells | 211809 | 500959 | 3534907 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 7 | 5 | 3 | 3 | 5 | 5 | 5 |
| Pollux1 | POLLUX PROPERTIES LLC | Other Wells | 213787 | 504871 | 3514658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Davis | R A DAVIS | Other Wells | 621257 | 506996 | 3533678 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| S31 | R S WALDEN | Other Wells | 623987 | 505995 | 3537476 | 308 | 305 | 289 | 265 | 223 | 214 | 140 | 44 | 0 | 0 | 0 | 106 | 127 | 218 | 109 | 184 | 143 | 107 | 81 | 55 | 29 | 29 | 29 |
| RanchoSonado | RANCHO SONADO LLC | Other Wells | 507495 | 496705 | 3510791 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 | 231 | 273 | 227 | 199 | 240 | 390 | 390 | 390 |
| Underdown | RANCHO SONADO LLC | Other Wells | 626063 | 496709 | 3511387 | 11 | 10 | 10 | 22 | 22 | 12 | 35 | 7 | 5 | 10 | 10 | 14 | 4 | 12 | 13 | 36 | 20 | 8 | 9 | 11 | 12 | 12 | 12 |
| Estrada | RICARDO G & ELIZABETH ESTRADA | Other Wells | 603835 | 502489 | 3531323 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wilson | ROBERT & PEGGY WILSON | Other Wells | 640149 | 509102 | 3533110 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Davis_Robert | ROBERT DAVIS | Other Wells | 516216 | 507647 | 3533428 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AN-2(RRQC2) | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608519 | 503457 | 3529250 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AN-4(RRQC1) | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608521 | 503457 | 3527990 | 94 | 156 | 0 | 0 | 0 | 0 | 261 | 266 | 334 | 378 | 384 | 362 | 326 | 357 | 460 | 359 | 407 | 384 | 407 | 370 | 435 | 435 | 435 |
| QCWC_No13 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608522 | 504788 | 3528380 | 13 | 21 | 9 | 8 | 9 | 27 | 23 | 59 | 61 | 84 | 119 | 73 | 139 | 164 | 222 | 313 | 317 | 350 | 304 | 275 | 18 | 18 | 18 |
| AN1 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608589 | 502595 | 3527990 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 379 | 668 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 608594 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608594 | 503823 | 3527583 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| QCWC_No11 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608597 | 505964 | 3526918 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 15 | 77 | 106 | 0 | 99 | 93 | 14 | 21 | 30 | 25 | 1 | 1 | 1 |
| QCWC_No16 | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608598 | 506962 | 3526858 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lawyers | ROBSON RANCH QUAIL CREEK LLC | Other Wells | 608599 | 504207 | 3527782 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rosemont2 | ROSEMONT COPPER COMPANY | Other Wells | 216391 | 508421 | 3533513 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUS_605342 | SAHUARITA SCH DIS 30 | Other Wells | 605342 | 501863 | 3535970 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 42 | 24 | 13 | 27 | 26 | 26 |
| SUS_605344 | SAHUARITA SCH DIS 30 | Other Wells | 605344 | 501863 | 3535970 | 48 | 0 | 33 | 23 | 52 | 61 | 70 | 0 | 0 | 83 | 82 | 96 | 96 | 95 | 75 | 79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SahVal_WC | SAHUARITA VILLAGE WT | Other Wells | 607626 | 503052 | 3536369 | 15 | 16 | 16 | 17 | 20 | 20 | 19 | 21 | 17 | 19 | 17 | 17 | 18 | 18 | 19 | 18 | 19 | 12 | 38 | 10 | 15 | 13 | 13 |
| SWC1 | SAHUARITA WATER COMPANY | Other Wells | 611144 | 502752 | 3537471 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 133 | 116 | 85 | 31 | 242 | 298 | 534 | 667 | 669 | 782 | 201 | 302 | 451 | 527 | 428 | 428 |
| Rosemont1 | SANRITA PROPERTIES LLC | Other Wells | 214277 | 505997 | 3535073 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amado | STEWART TITLE & TRUST | Other Wells | 623888 | 495913 | 3511786 | 107 | 97 | 2 | 195 | 110 | 149 | 105 | 117 | 113 | 129 | 125 | 139 | 129 | 126 | 130 | 158 | 204 | 206 | 212 | 212 | 181 | 181 | 181 |
| Hoogerwerk_RL | THOMAS SAVILLE | Other Wells | 601910 | 509871 | 3532610 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TorresBlancas | TORRES BLANCAS HOLDINGS LLC | Other Wells | 543409 | 502409 | 3521313 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 332 | 373 | 351 | 361 | 309 | 328 | 328 | 328 |
| Sahuarita | TOWN OF SAHUARITA | Other Wells | 611142 | 506745 | 3536662 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85 | 183 | 354 | 211 | 311 | 181 | 235 | 247 | 285 | 186 | 171 | 166 | 82 | 104 | 104 |
| Lamb | V G LAMB | Other Wells | 628534 | 505340 | 3535044 | 1 | 2 | 5 | 5 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 4 | 4 | 4 | 4 | 4 | 4 |
| ValVerde | VAL VERDE INC | Other Wells | 803064 | 502386 | 3531830 | 4 | 0 | 4 | 6 | 0 | 6 | 5 | 6 | 6 | 5 | 5 | 4 | 5 | 4 | 19 | 4 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| VVDN_WC | VALLE VERDE WATER | Other Wells | 602019 | 501674 | 3532142 | 37 | 47 | 43 | 48 | 53 | 50 | 42 | 45 | 43 | 51 | 48 | 47 | 44 | 41 | 38 | 41 | 42 | 41 | 41 | 43 | 41 | 41 | 41 |
| Cox | W R COX | Other Wells | 604432 | 508795 | 3534015 | 7 | 3 | 3 | 2 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cox | W R COX | Other Wells | 627079 | 508795 | 3534015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| I13 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 87309 | 498196 | 3528505 | 877 | 624 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RT1 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 504946 | 499811 | 3530971 | 0 | 0 | 796 | 1608 | 1747 | 1715 | 1609 | 1092 | 1494 | 1090 | 1069 | 0 | 0 | 0 | 43 | 75 | 36 | 93 | 54 | 134 | 47 | 64 | 90 |
| I12 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608523 | 498110 | 3528580 | 946 | 866 | 844 | 0 | 758 | 338 | 469 | 138 | 5 | 55 | 210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| I11 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608524 | 497919 | 3528485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| I10 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608525 | 497798 | 3528469 | 1080 | 815 | 802 | 919 | 173 | 1502 | 389 | 690 | 816 | 674 | 552 | 0 | 0 | 0 | 30 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| I09 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608526 | 497823 | 3528672 | 0 | 50 | 145 | 73 | 11 | 1 | 24 | 28 | 63 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| I07 | FREEPORT-MCMORAN SIERRITA INC | Twin Buttes Wells | 608528 | 497807 | 3528530 | 338 | 188 | 671 | 667 | 517 | 347 | 171 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | Total GPM | 38,617 | 44,019 | 42,824 | 41,702 | 41,282 | 39,018 | 39,819 | 41,459 | 39,296 | 35,480 | 38,144 | 42,114 | 42,003 | 41,371 | 45,557 | 45,555 | 43,728 | 39,805 | 40,480 | 39,300 | 39,592 | 39,514 | 36,912 |
| | | | | | Total Ac-Ft | 62,333 | 71,051 | 69,122 | 67,311 | 66,633 | 62,980 | 64,272 | 66,920 | 63,428 | 57,269 | 61,568 | 67,976 | 67,797 | 66,777 | 73,534 | 73,530 | 70,582 | 64,249 | 65,340 | 63,435 | 63,905 | 63,779 | 59,579 |

Source:
- ADWR Wells55 Registry Database
- ELMA 2007
- Basin Wells Reports, 2011-2013
- FMI Sierrita ADWR Annual Reports
- ADWR Annual Reports

No pumping specified from 1941 to 1970.
All pumping units in gallons per minute (gpm)

# TABLE 4
# PUMPING RATES FOR CONTINGENCY PLAN SIMULATION

| WELL NAME | ADWR REGISTRY NUMBER | 2014 AVERAGE PUMPING RATE (GPM) | 2016 TO 2020 (GPM) | POST 2020 PUMPING (GPM) |
|---|---|---|---|---|
| FFS-1 | 221662 | 853 | 500 | 853 |
| FFS-2 | 221663 | 782 | 0 | 782 |
| FFS-3 | 221664 | 244 | 0 | 244 |
| FFS-4 | 221665 | 178 | 0 | 178 |
| FFS-5 | 221666 | 956 | 956 | 956 |
| FFS-6 | 221667 | 553 | 550 | 553 |
| **FFS WELL TOTAL** | | **3565** | **2006** | **3565** |
| IW-01 | 623129 | 202 | 0 | 202 |
| IW-02A | 216464 | 226 | 0 | 226 |
| IW-03A | 201732 | 436 | 0 | 436 |
| IW-04 | 623132 | 76 | 0 | 76 |
| IW-05A | 623133 | 18 | 0 | 18 |
| IW-06A | 545565 | 62 | 0 | 62 |
| IW-08 | 508238 | 225 | 0 | 225 |
| IW-09 | 508236 | 104 | 0 | 104 |
| IW-10 | 508237 | 236 | 0 | 236 |
| IW-11 | 508235 | 119 | 0 | 119 |
| IW-12 | 545555 | 79 | 0 | 79 |
| IW-13 | 545556 | 6 | 0 | 6 |
| IW-14 | 545557 | 45 | 0 | 45 |
| IW-15 | 545558 | 33 | 0 | 33 |
| IW-16 | 545559 | 0 | 0 | 0 |
| IW-17 | 545560 | 0 | 0 | 0 |
| IW-18 | 545561 | 0 | 0 | 0 |
| IW-19 | 545562 | 163 | 0 | 163 |
| IW-20 | 545563 | 23 | 0 | 23 |
| IW-21 | 545564 | 47 | 0 | 47 |
| IW-22 | 200554 | 280 | 0 | 280 |
| IW-23 | 200555 | 137 | 0 | 137 |
| IW-24 | 200556 | 56 | 0 | 56 |
| IW-25 | 219596 | 423 | 0 | 423 |
| IW-26 | 219143 | 0 | 0 | 0 |
| IW-27 | 219136 | 59 | 0 | 59 |
| IW-28 | 219137 | 277 | 0 | 277 |
| IW-29 | 999019 | 145 | 145 | 145 |
| **IW WELL TOTAL** | | **3479** | **145** | **3479** |
| PS-1 | 220861 | 588 | 750 | 750 |
| PS-2 | 220862 | 592 | 750 | 750 |
| PS-3 | 220863 | 591 | 900 | 900 |
| PS-4 | 220864 | 709 | 1100 | 1100 |
| **PS WELL TOTAL** | | **2480** | **3500** | **3500** |
| MC-1 | 999014 | 844 | 500 | 844 |
| MC-2 | 221761 | 619 | 500 | 619 |
| MC-3 | 221661 | 564 | 550 | 564 |
| MC-4 | 220842 | 557 | 550 | 557 |
| **MC WELL TOTAL** | | **2584** | **2100** | **2584** |
| | | | | |
| **TOTAL PUMPING** | | **12107** | **7751** | **13127** |

Notes:
ADWR = Arizona Department of Water Resources
IW = Interceptor Wells
FFS = Focused Feasibility Study
PS = Plume Stabilization
MC = Mass Capture
GPM = gallons per minute

CLEAR CREEK ASSOCIATES