

Figure 2.4-62—{Potentiometric Surface Map, Graydon Chert Aquifer, November 2007}

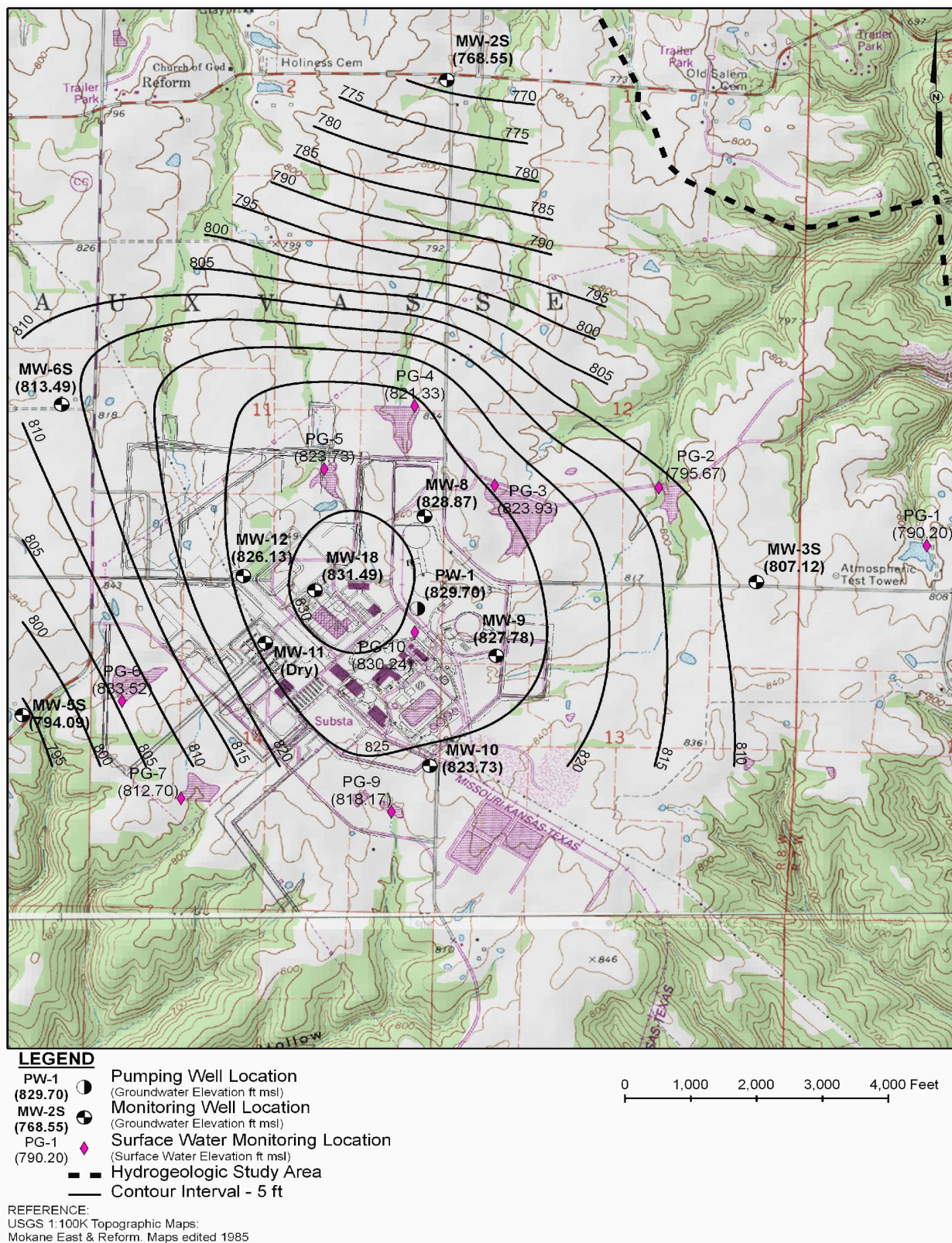
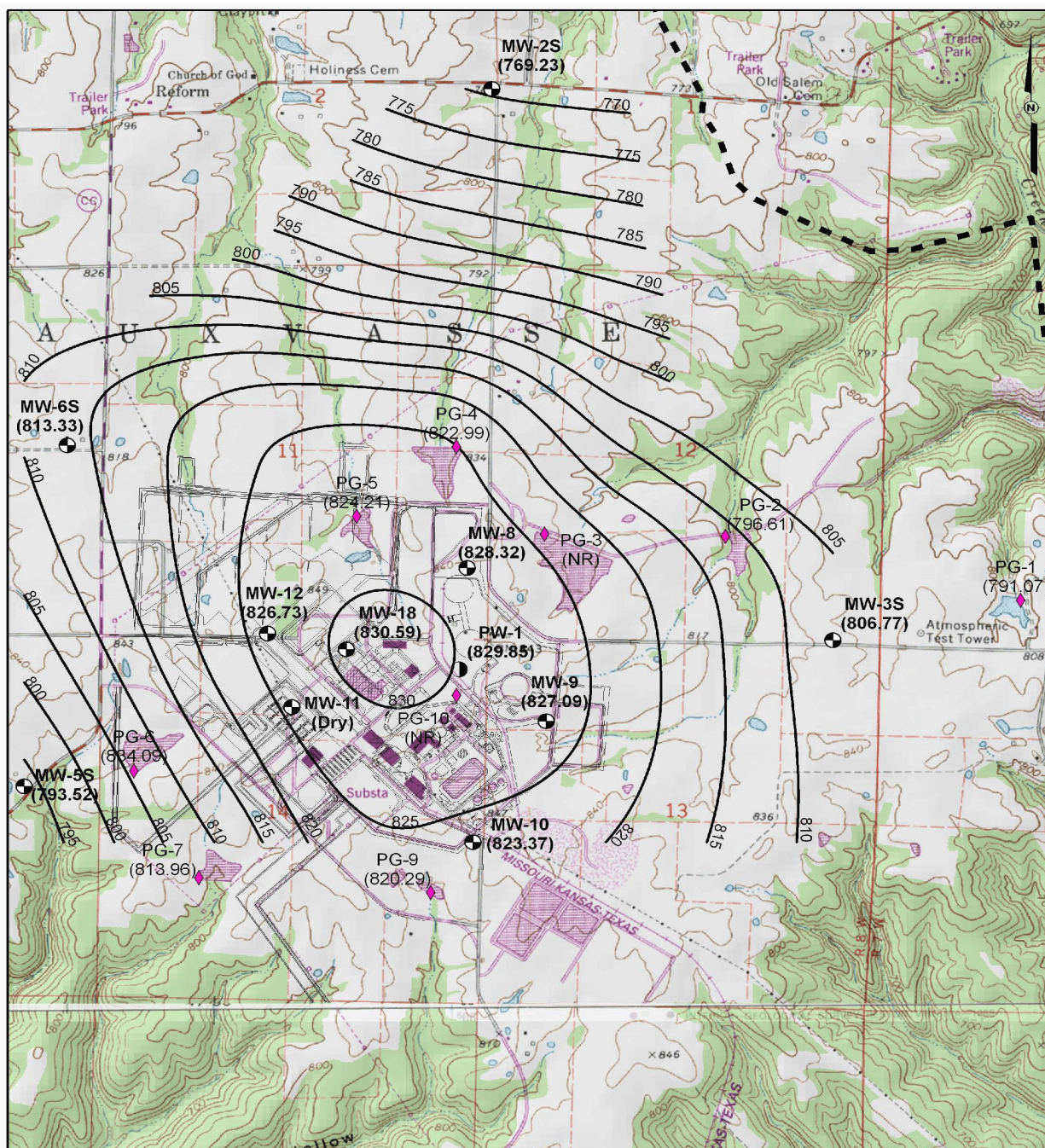


Figure 2.4-63—{Potentiometric Surface Map, Graydon Chert Aquifer, January 2008}**LEGEND**

- PW-1 (829.85) ● Pumping Well Location
 (Groundwater Elevation ft msl)
 MW-2S (769.23) ● Monitoring Well Location
 (Groundwater Elevation ft msl)
 PG-1 (791.07) ◆ Surface Water Monitoring Location
 (Surface Water Elevation ft msl)
 — Hydrogeologic Study Area
 — Contour Interval - 5 ft

NR = No Reading

0 1,000 2,000 3,000 4,000 Feet

REFERENCE:
 USGS 1:100K Topographic Maps:
 Mokane East & Reform. Maps edited 1985

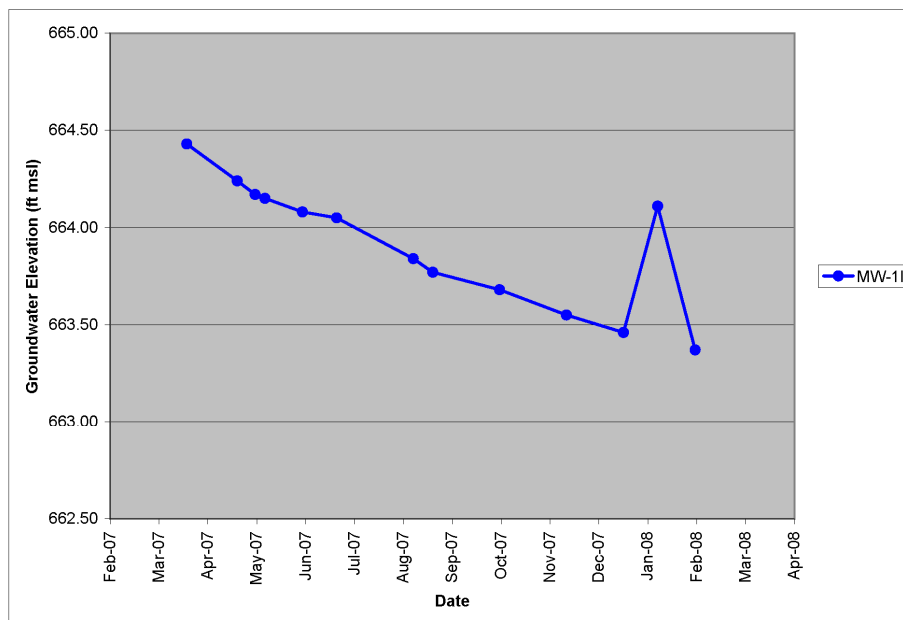
Figure 2.4-64—{Groundwater Elevation versus Time, Aquitard}

Figure 2.4-65—{Groundwater Elevation versus Time, Cotter-Jefferson City Aquifer Well}

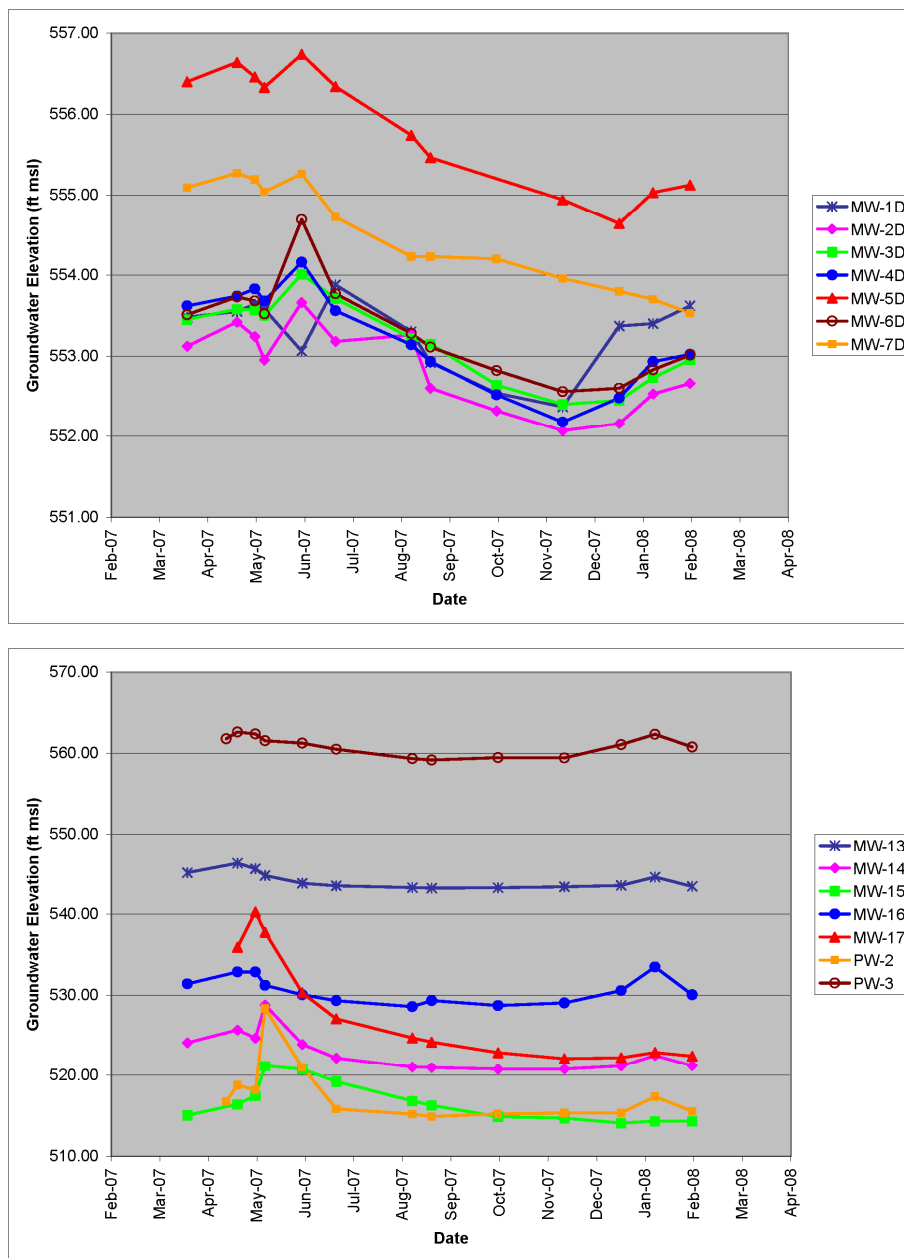


Figure 2.4-66—{Surface Water Elevation versus Time, Lakes and Auxvasse Creek}

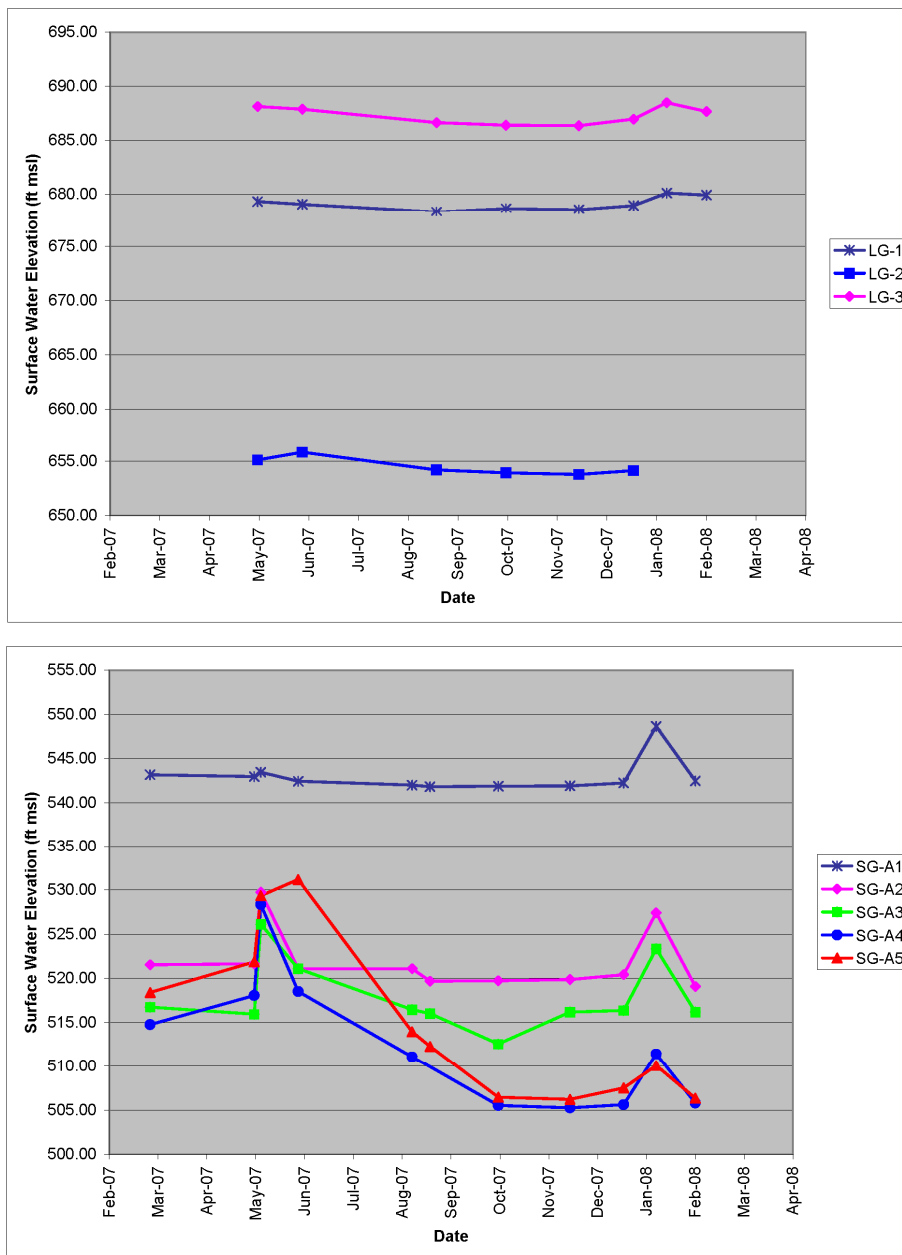


Figure 2.4-67—{Surface Water Elevation versus Time, Mud and Logan Creeks}

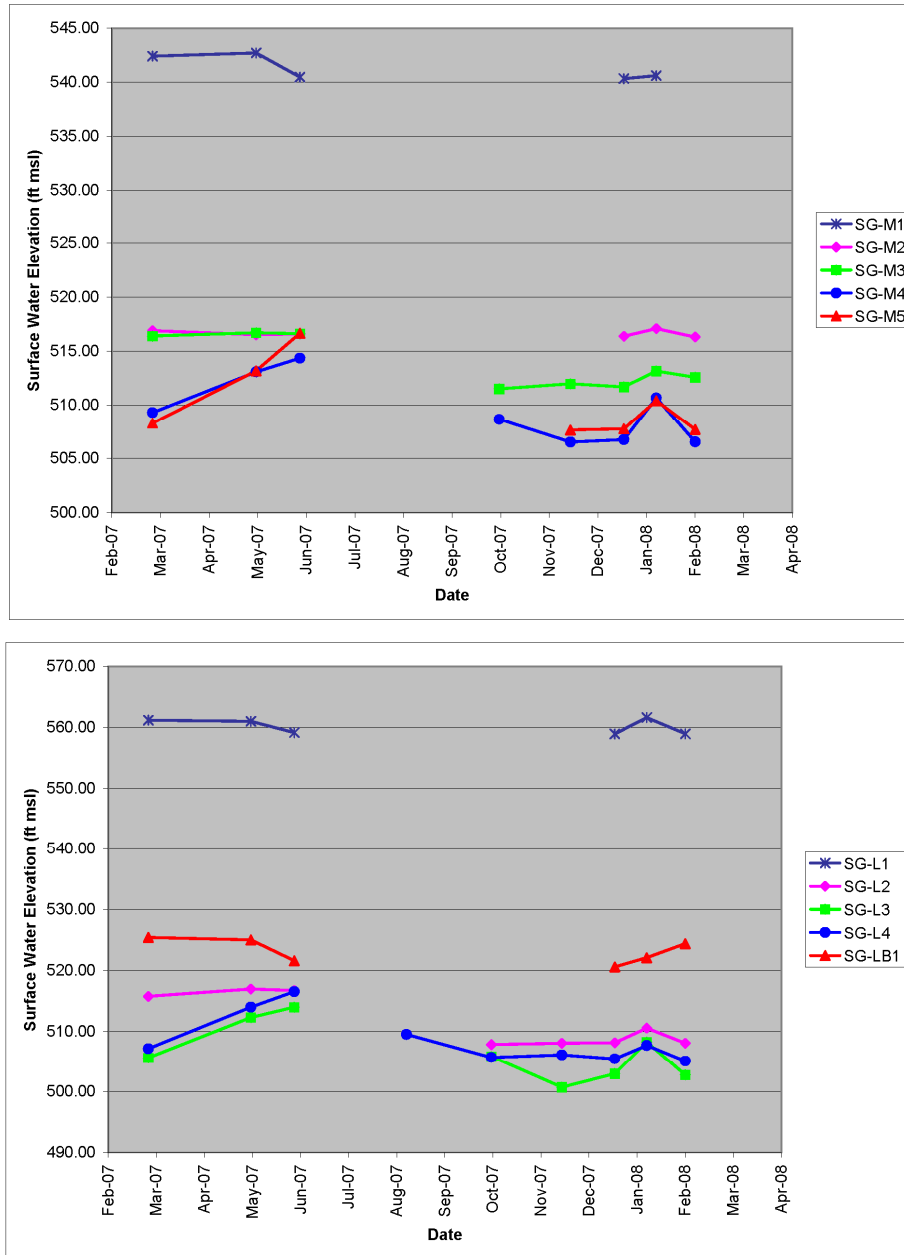


Figure 2.4-68—{Potentiometric Surface Map, Cotter-Jefferson City Aquifer, May 2007}

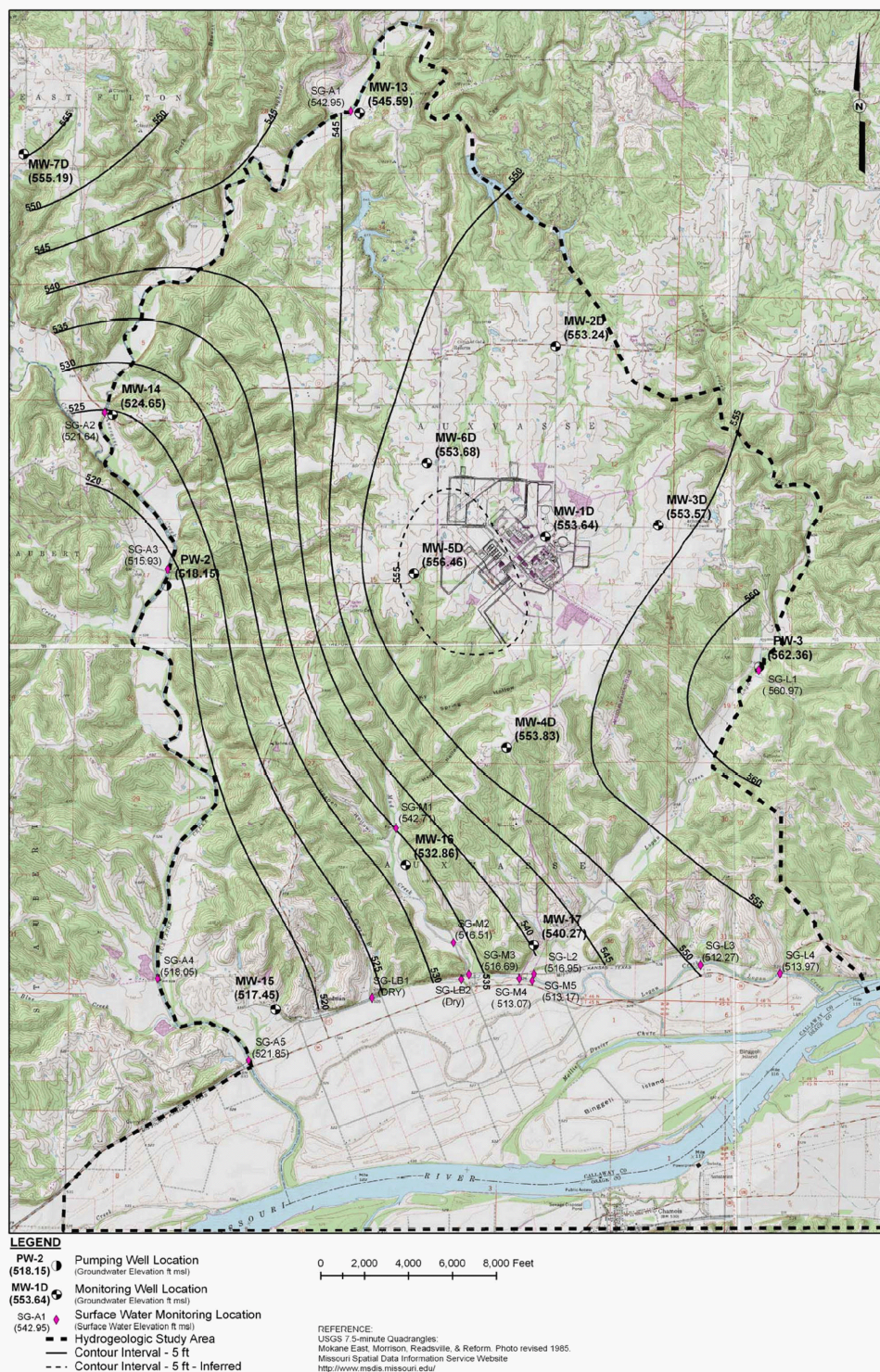


Figure 2.4-69—{Potentiometric Surface Map, Cotter-Jefferson City Aquifer, August 2007}

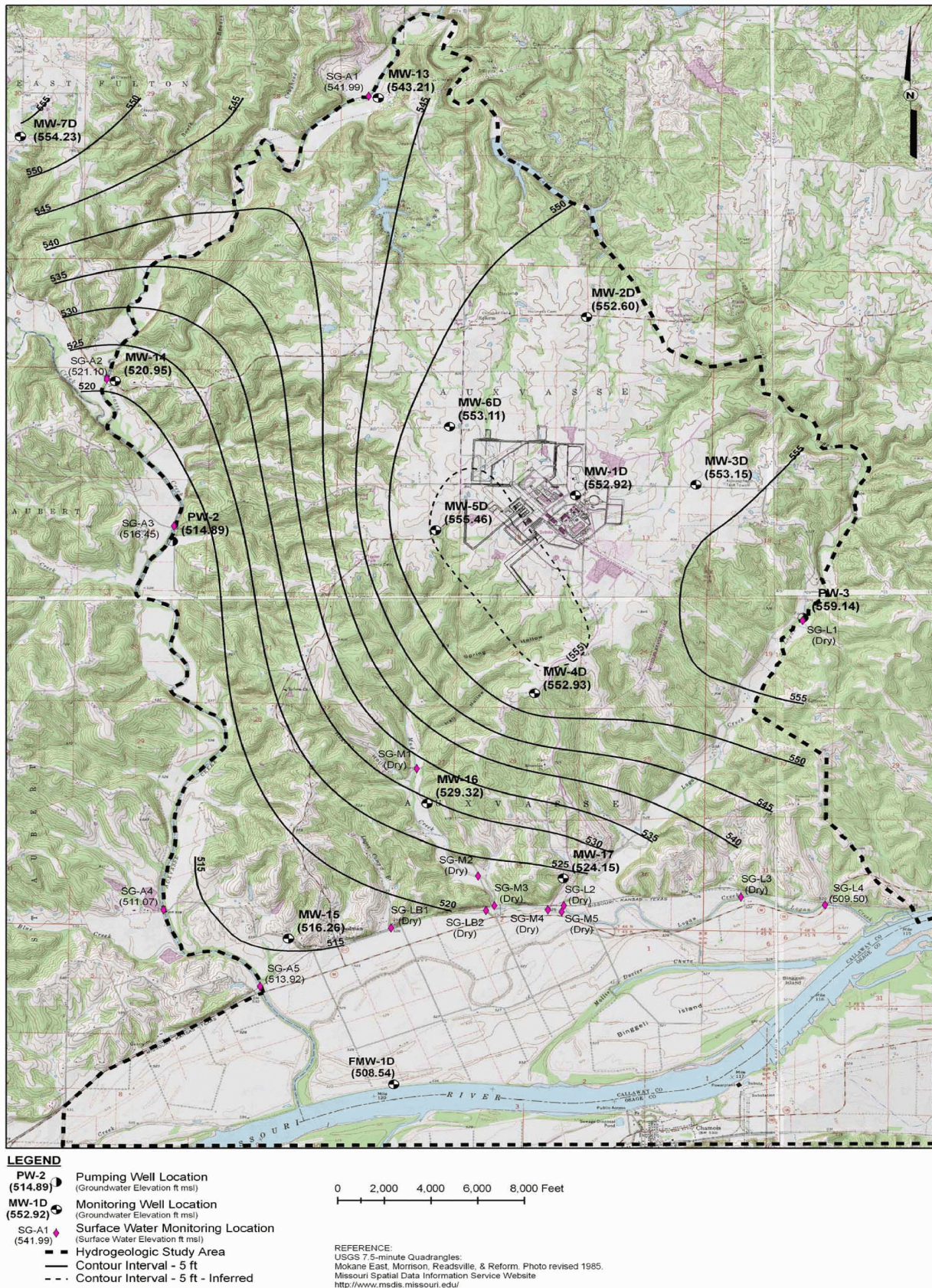


Figure 2.4-70—{Potentiometric Surface Map, Cotter-Jefferson City Aquifer, November 2007}

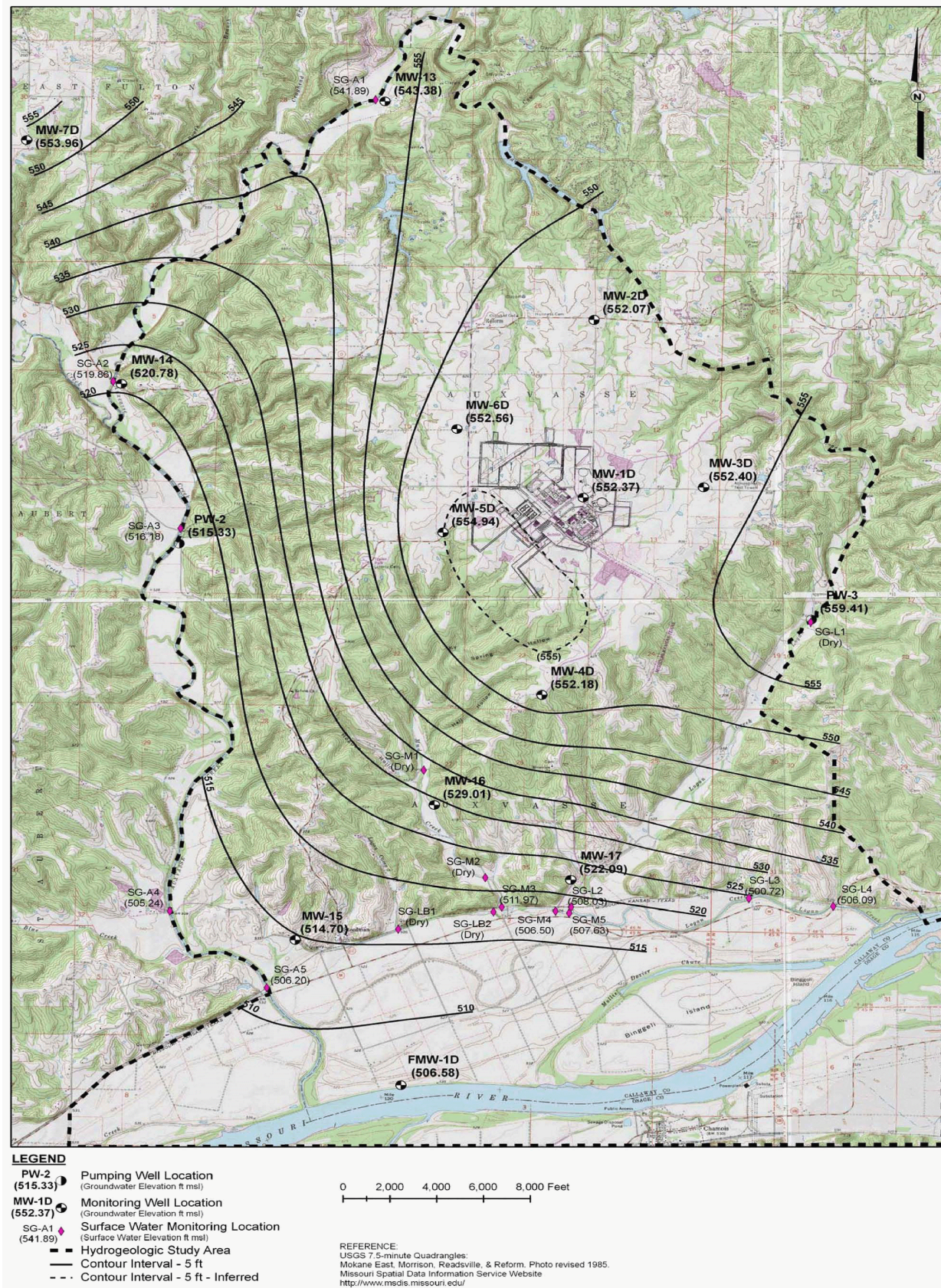


Figure 2.4-71—{Potentiometric Surface Map, Cotter-Jefferson City Aquifer, January 2008}

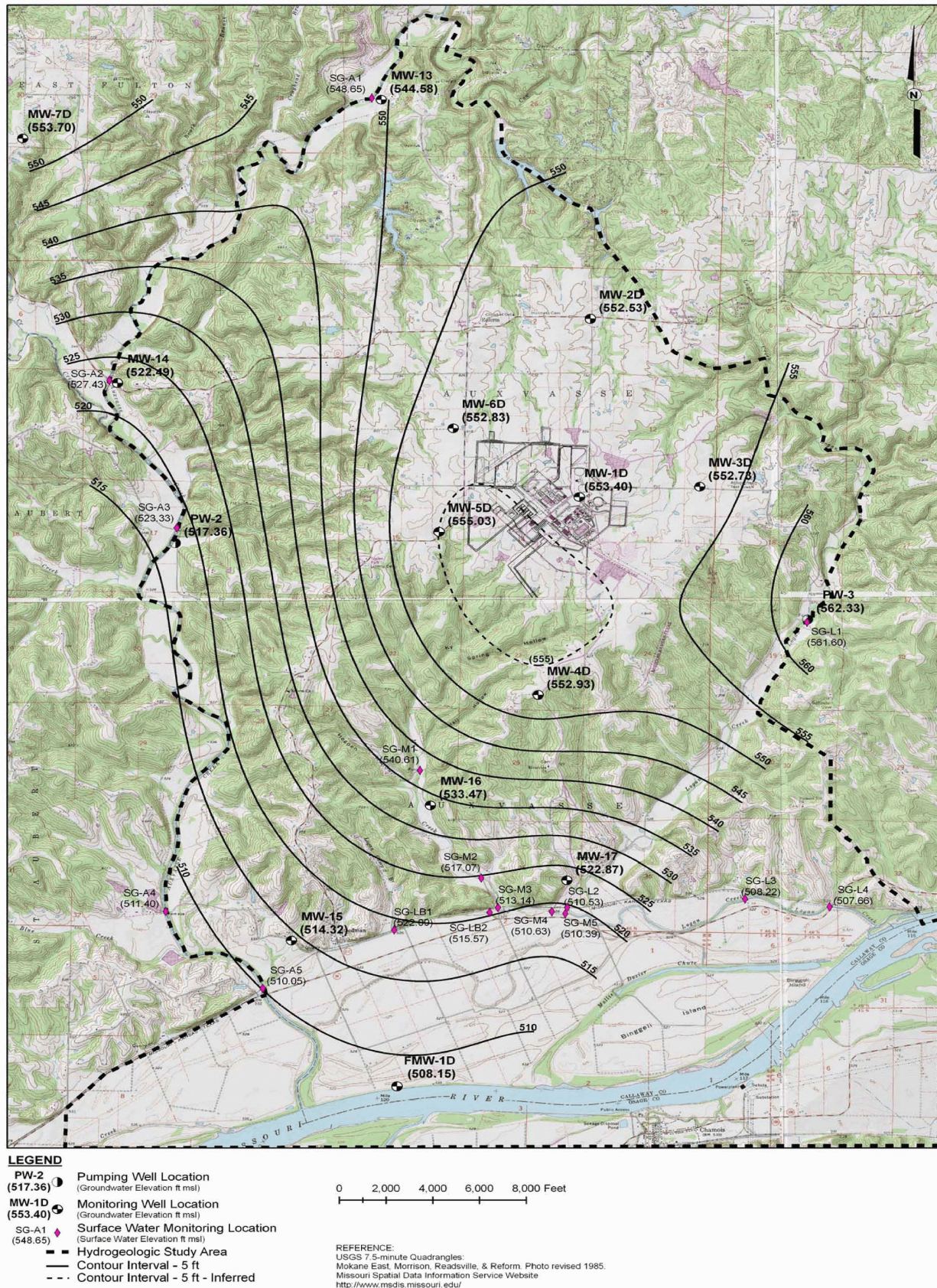
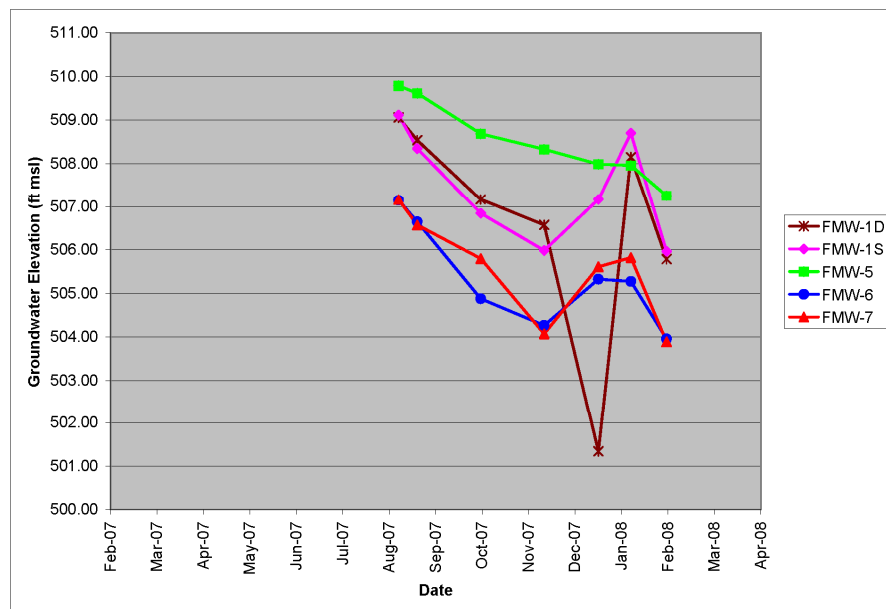
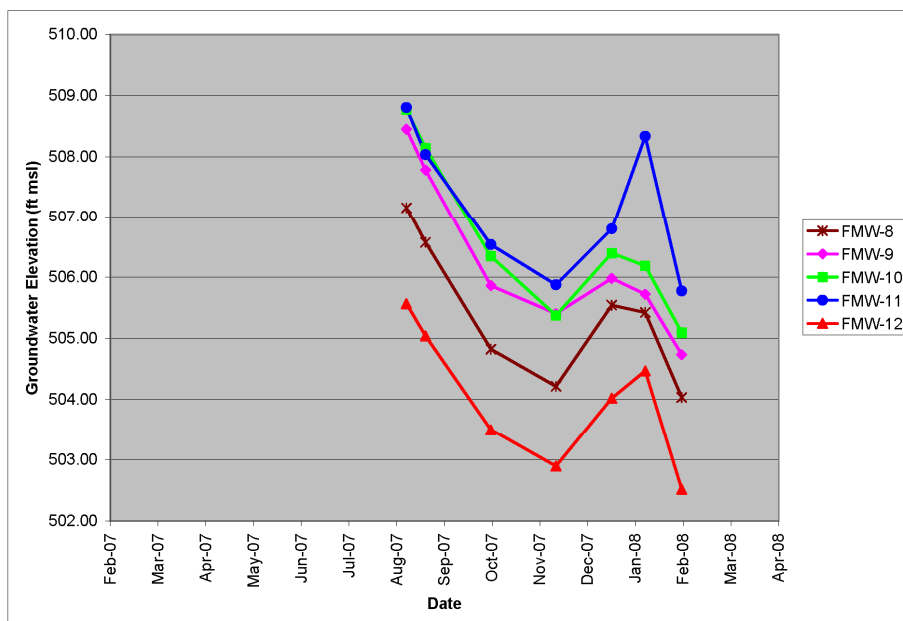
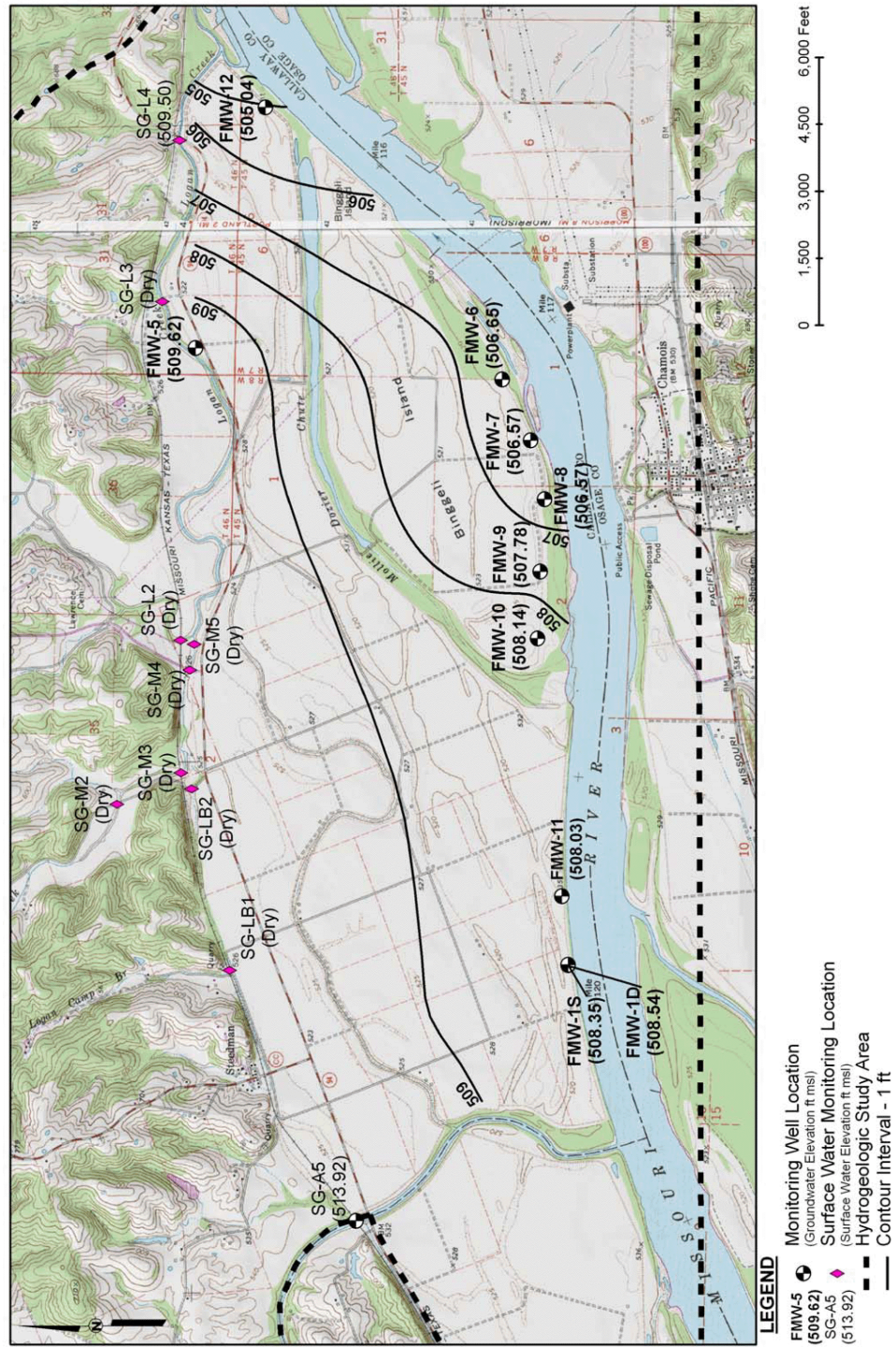


Figure 2.4-72—{Groundwater Elevation versus Time, Missouri River Alluvial Aquifer Wells}



Note: FMW-1S and FMW-1D are a well cluster;
FMW-1D is screened in the bedrock beneath the
alluvial aquifer.

Figure 2.4-73—{Potentiometric Surface Map, Missouri River Alluvial Aquifer, August 2007}



REFERENCE:
USGS 1:100K Topographic Maps:
Mokane East and Morrison. Maps edited 1995

Figure 2.4-74—{Potentiometric Surface Map, Missouri River Alluvial Aquifer, November 2007}

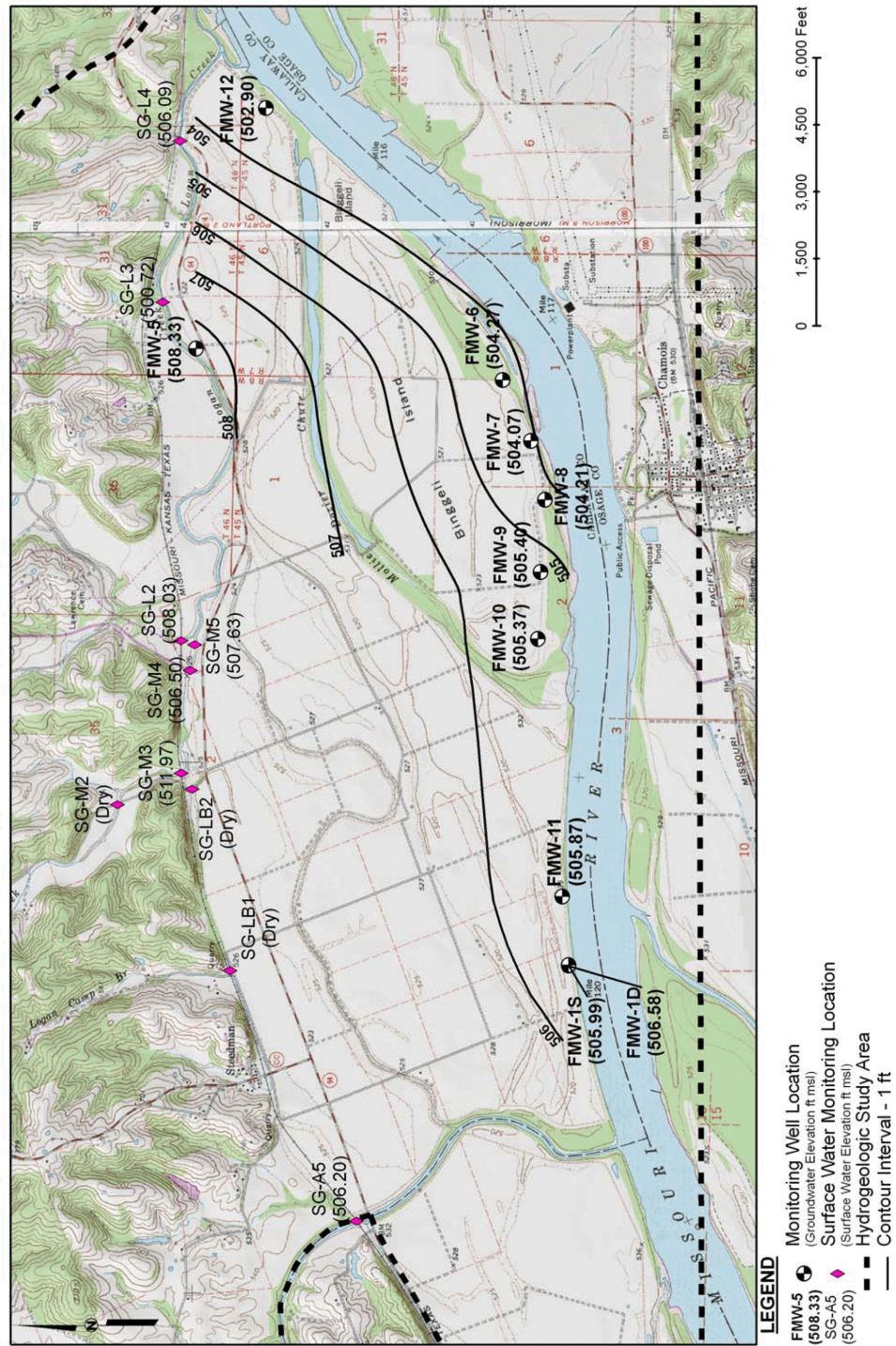


Figure 2.4-75—{Potentiometric Surface Map, Missouri River Alluvial Aquifer, January 2008}

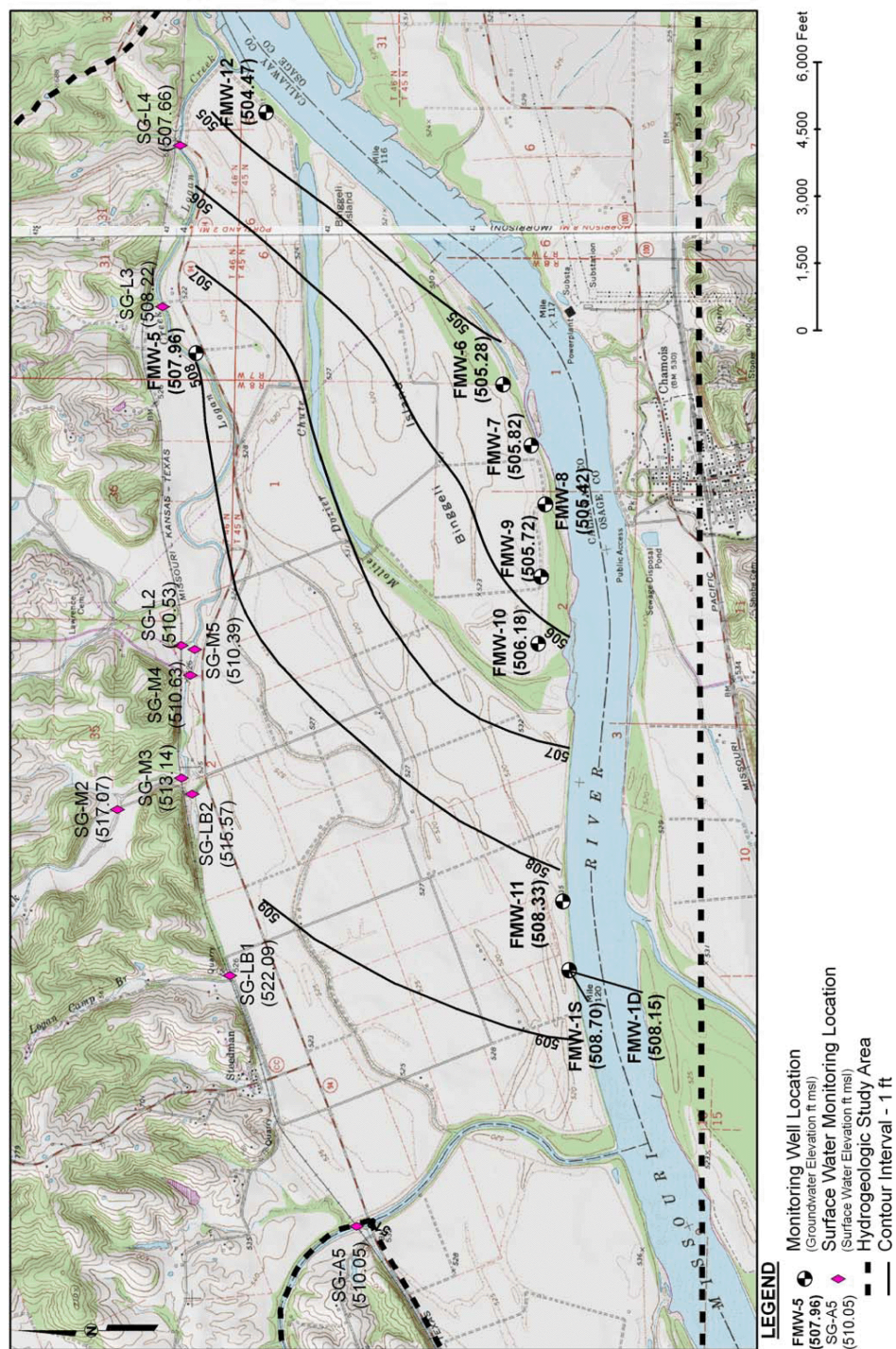
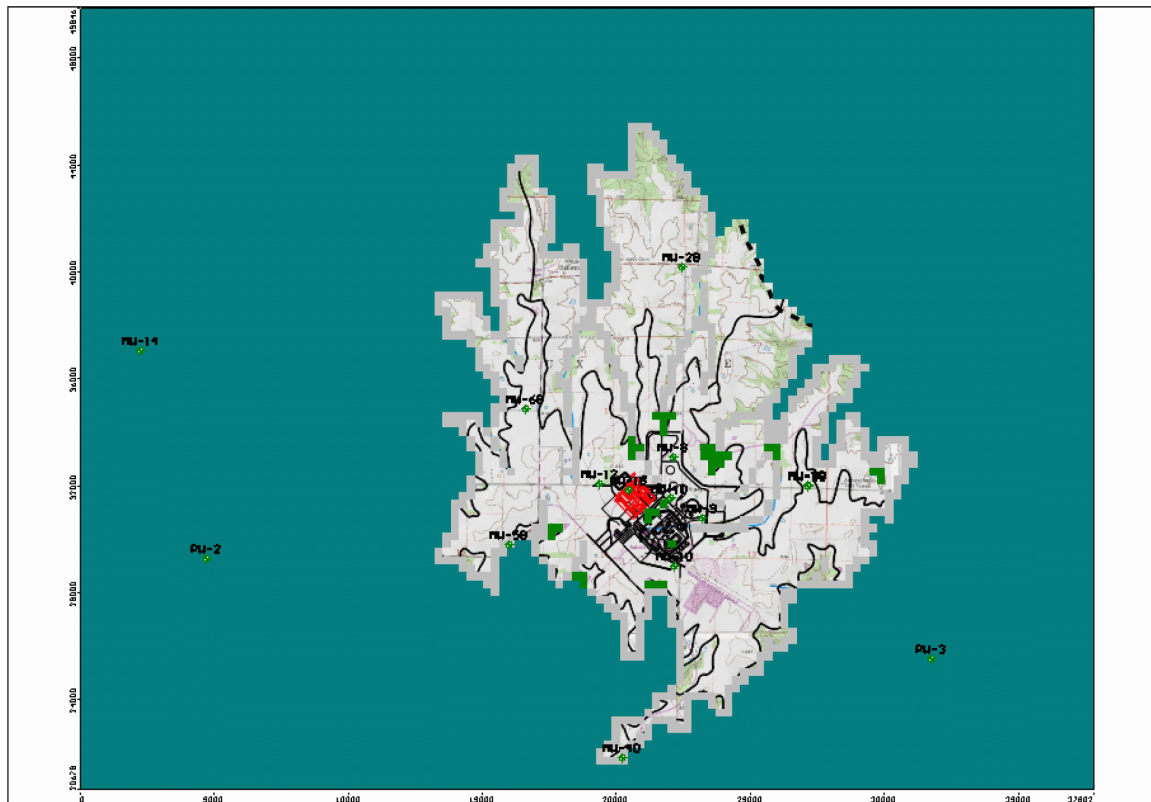
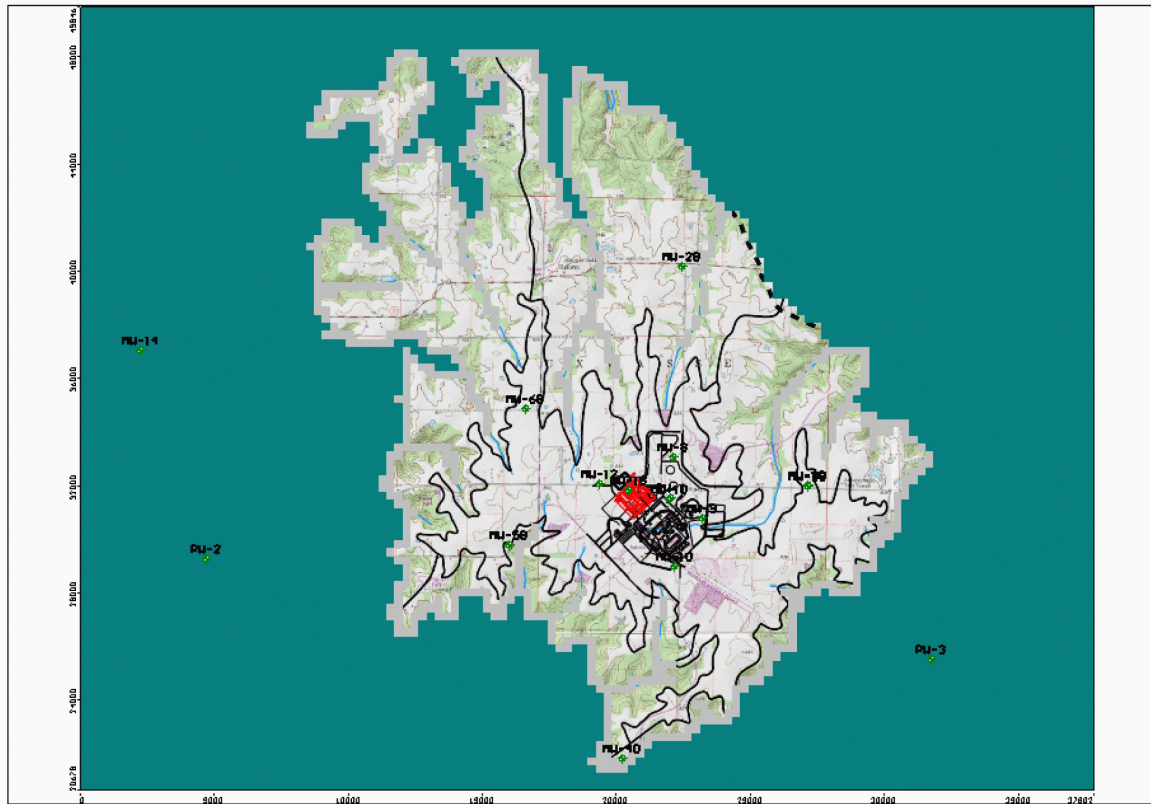


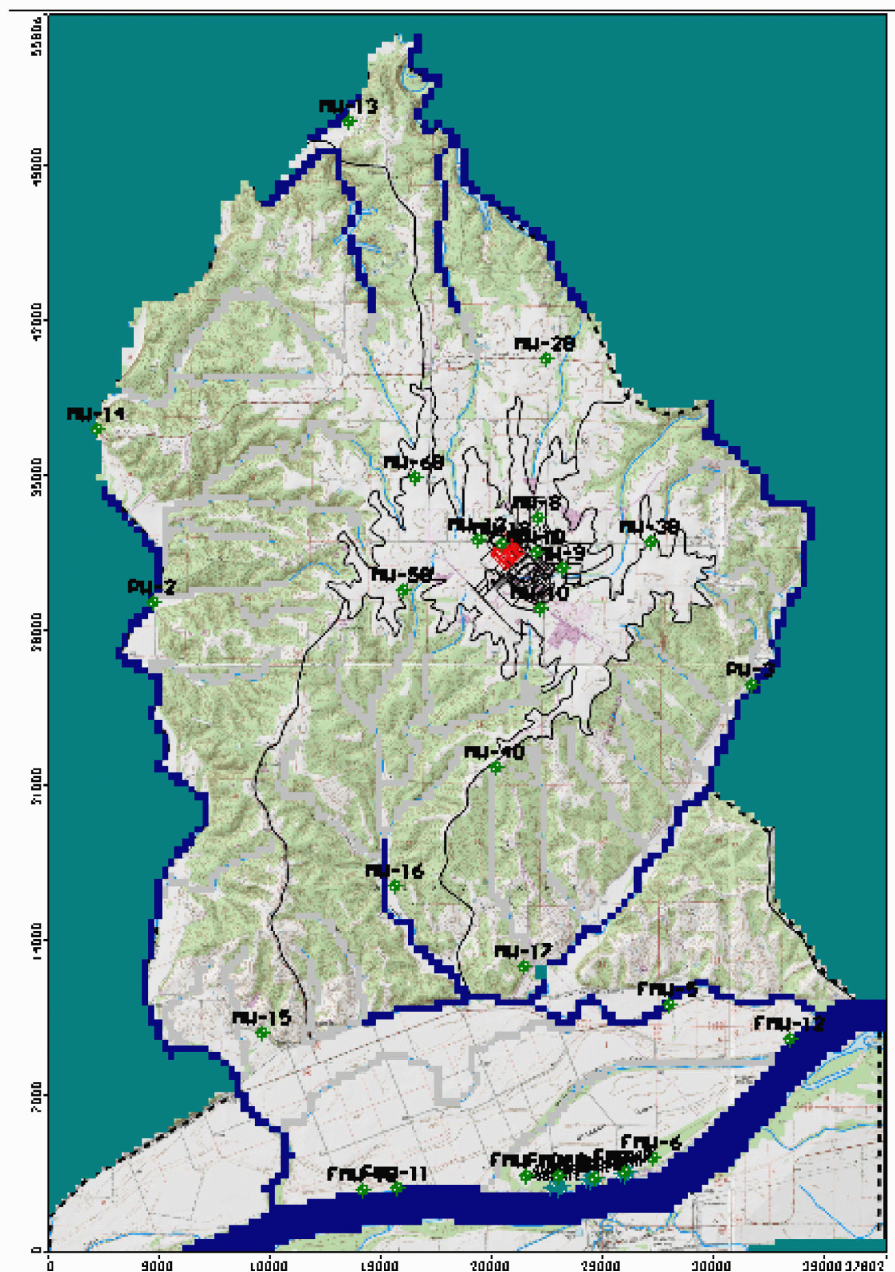
Figure 2.4-76—{Layer 1 Boundary Conditions}

Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-77—{Layer 2 Boundary Conditions}

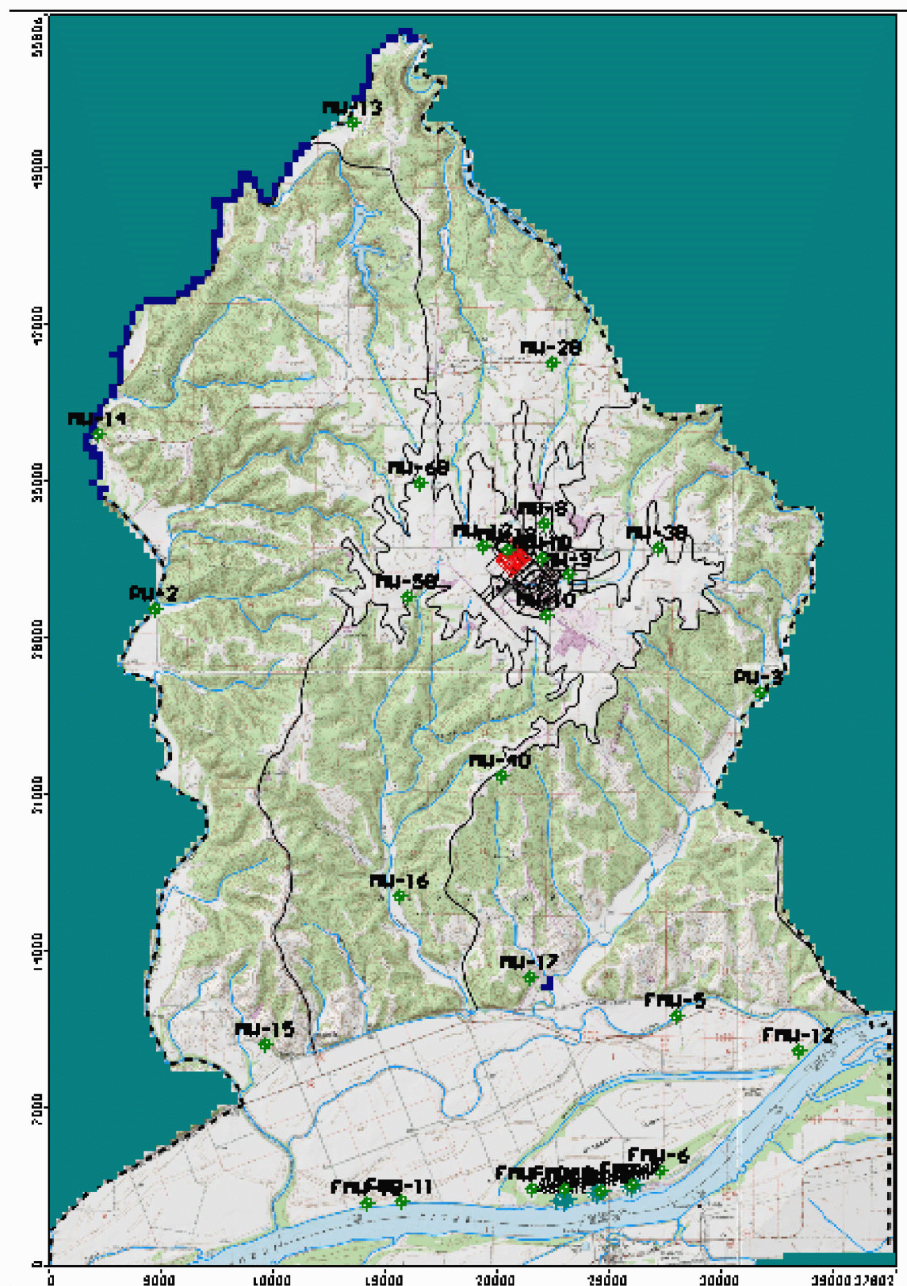
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-78—{Layer 3 Boundary Conditions}



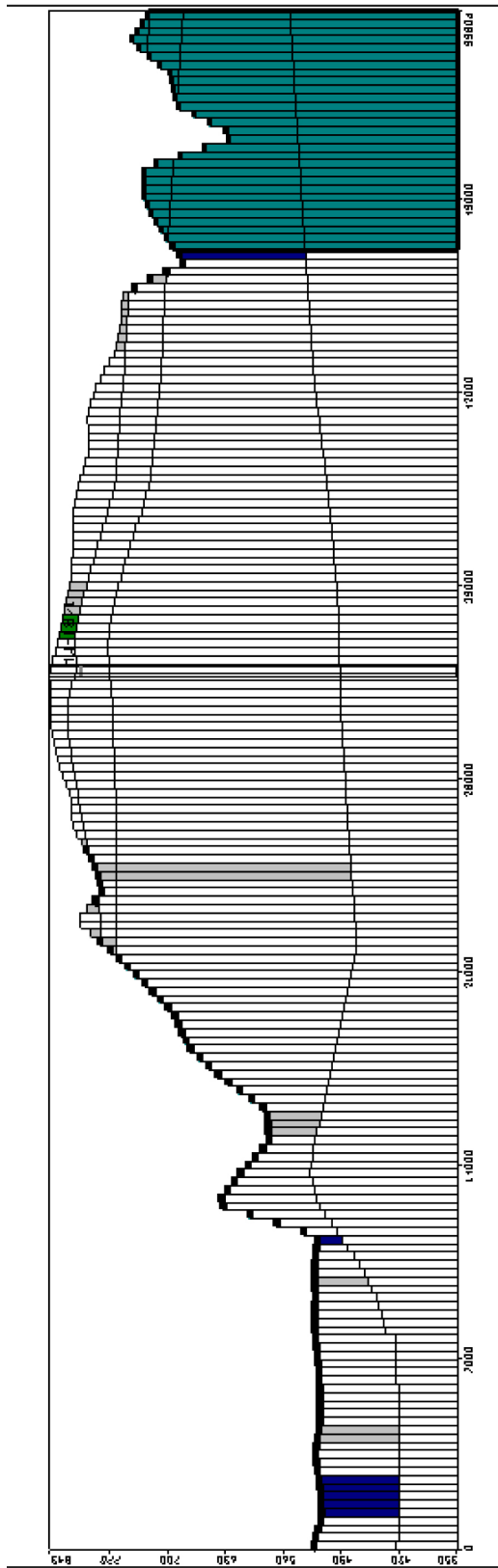
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-79—{Layer 4 Boundary Conditions}



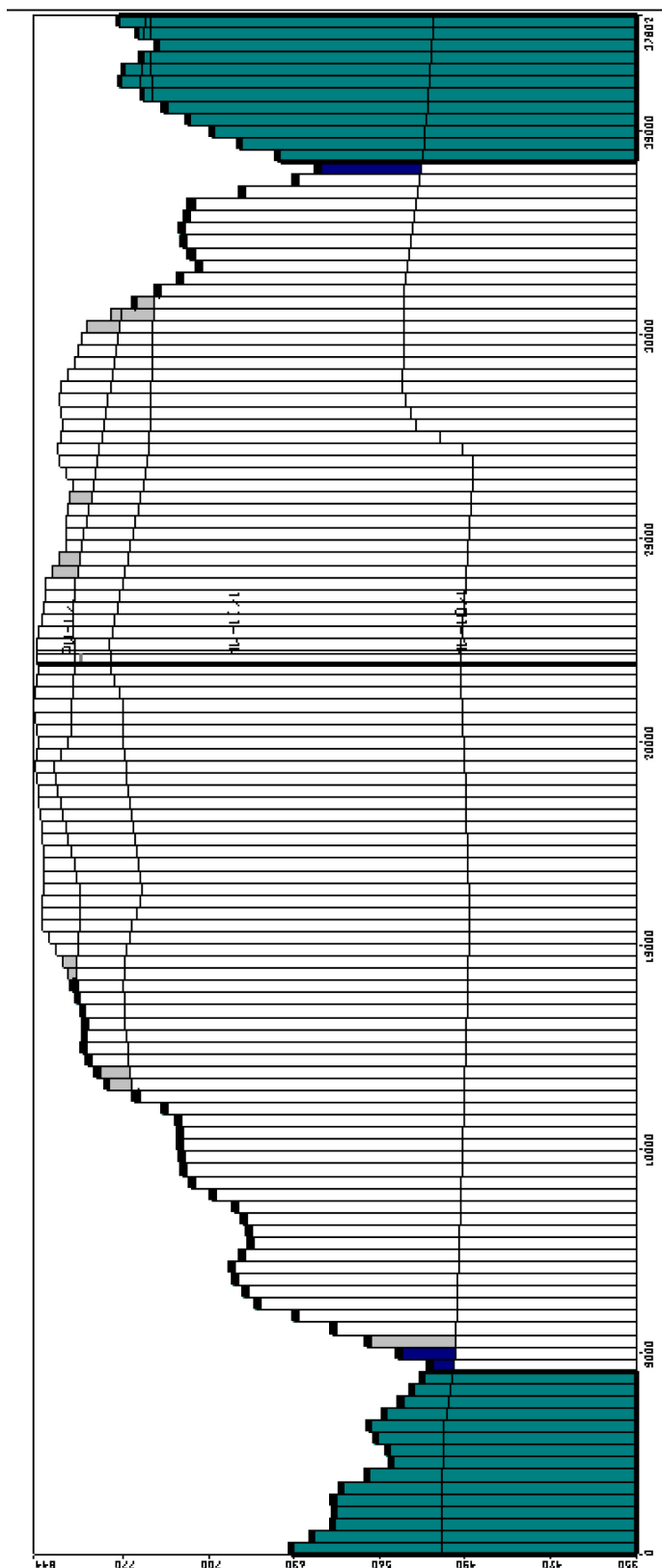
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-80—{South-North Cross-Section}



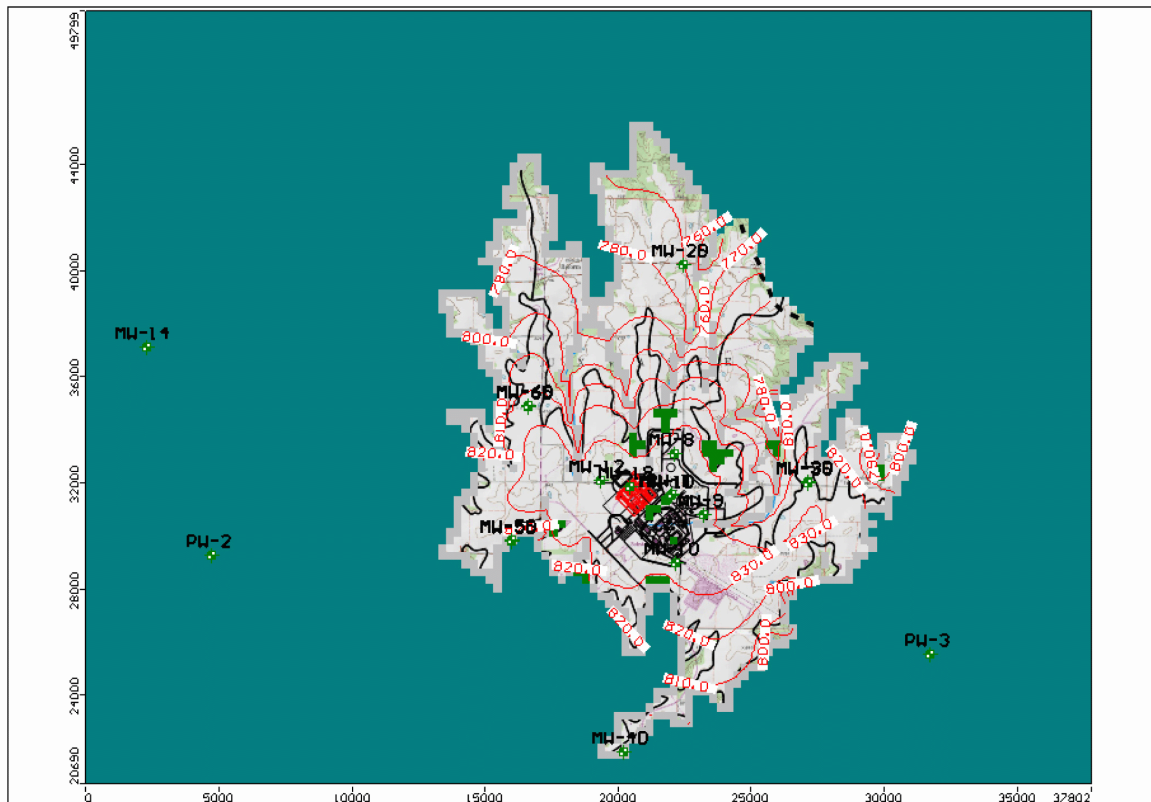
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-81—{East-West Cross-Section}

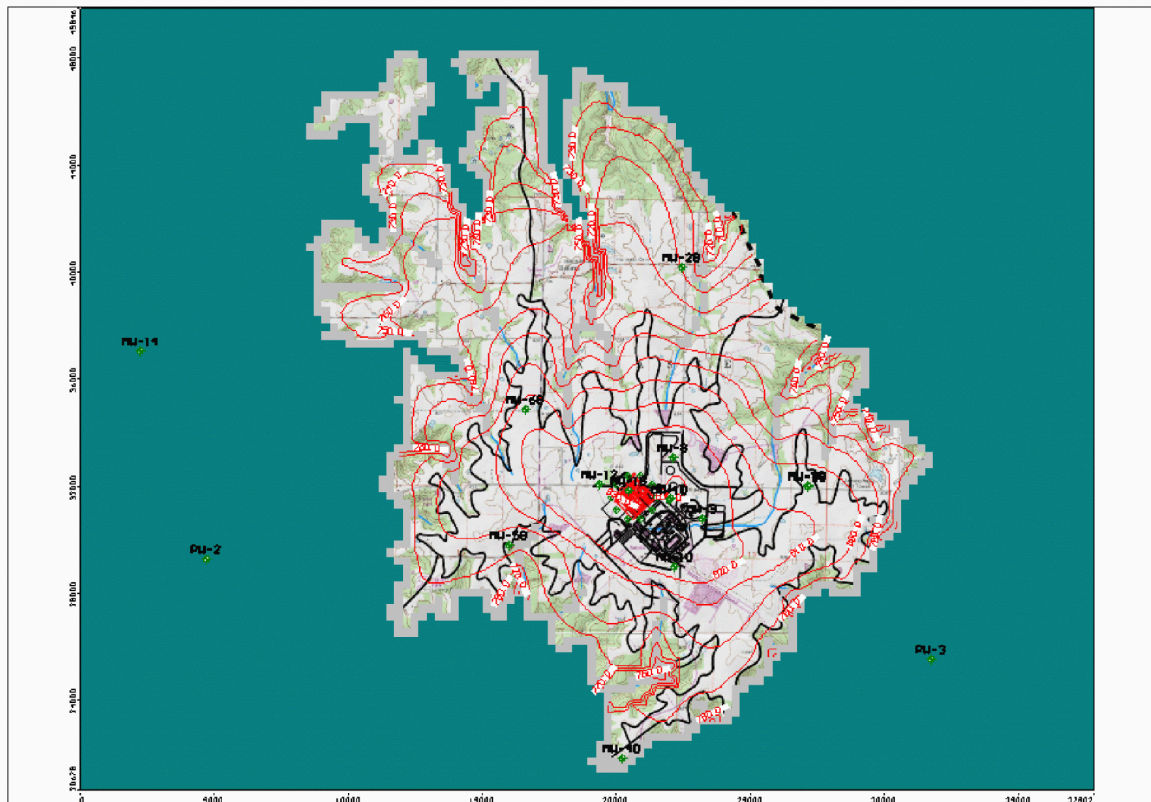


Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-82—{Layer 1 Calibrated Groundwater Elevations}

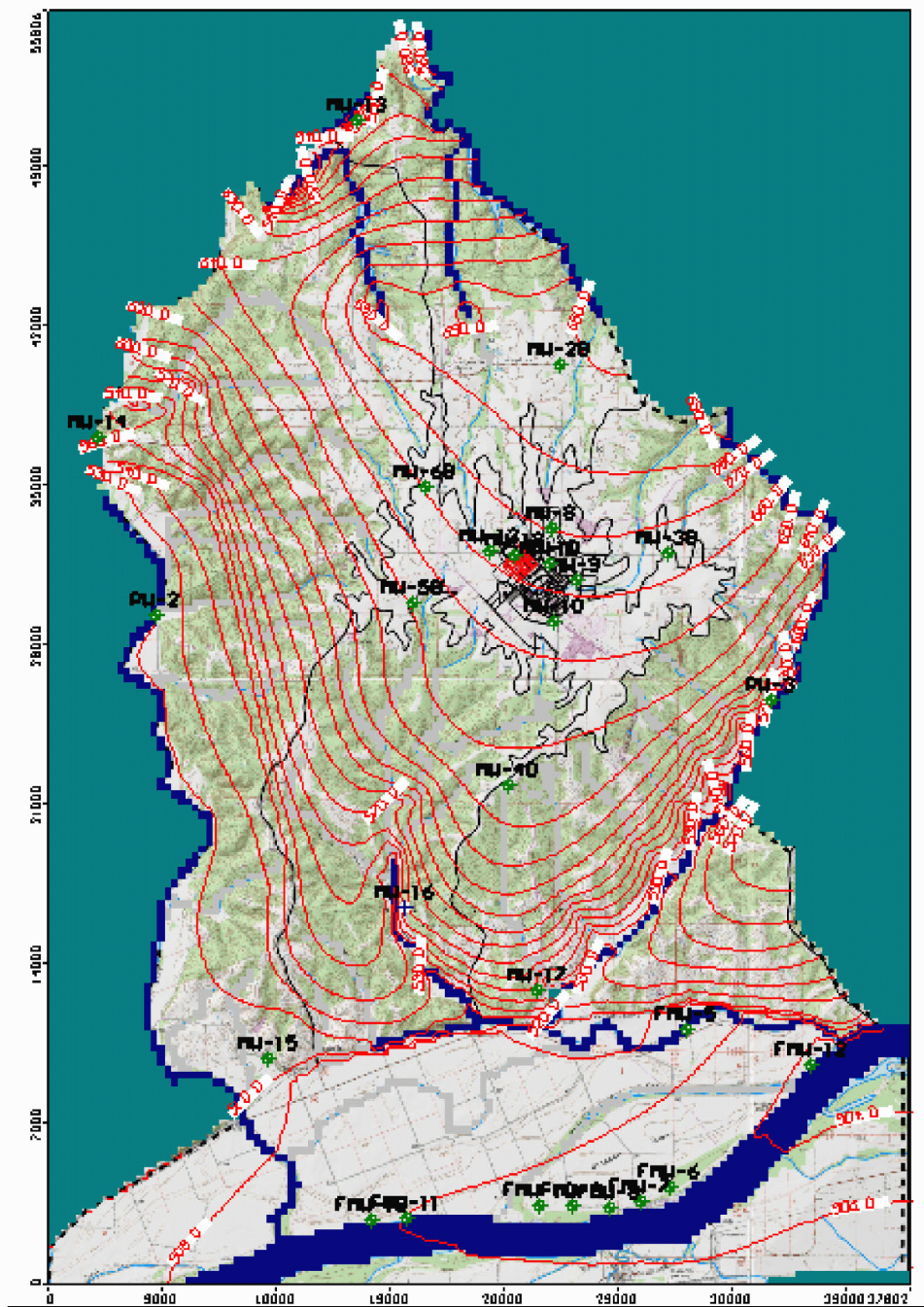


Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Contours are steady-state groundwater elevations in feet msl. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-83—{Layer 2 Calibrated Groundwater Elevations}

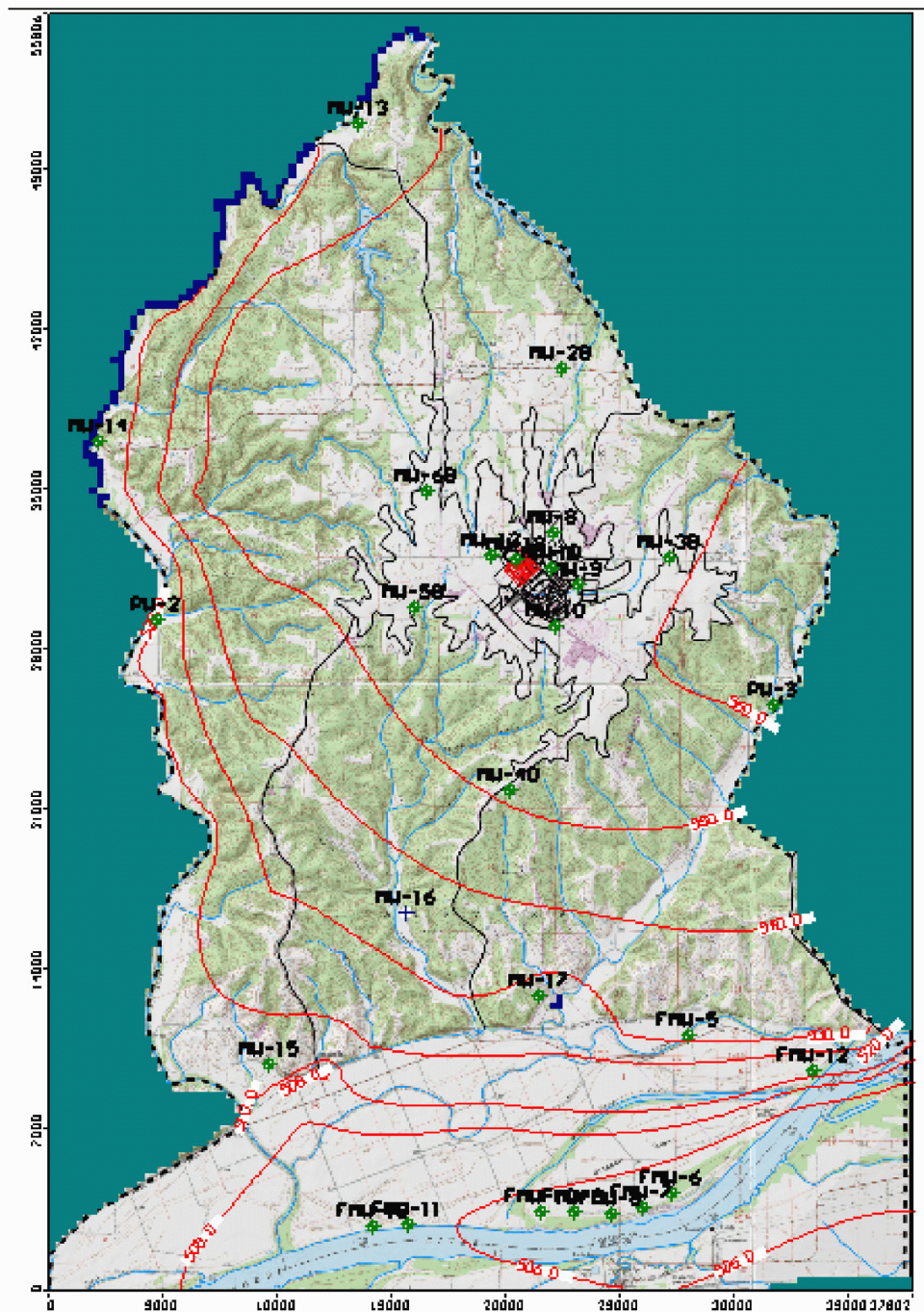
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Contours are steady-state groundwater elevations in feet msl. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-84—{Layer 3 Calibrated Groundwater Elevations}



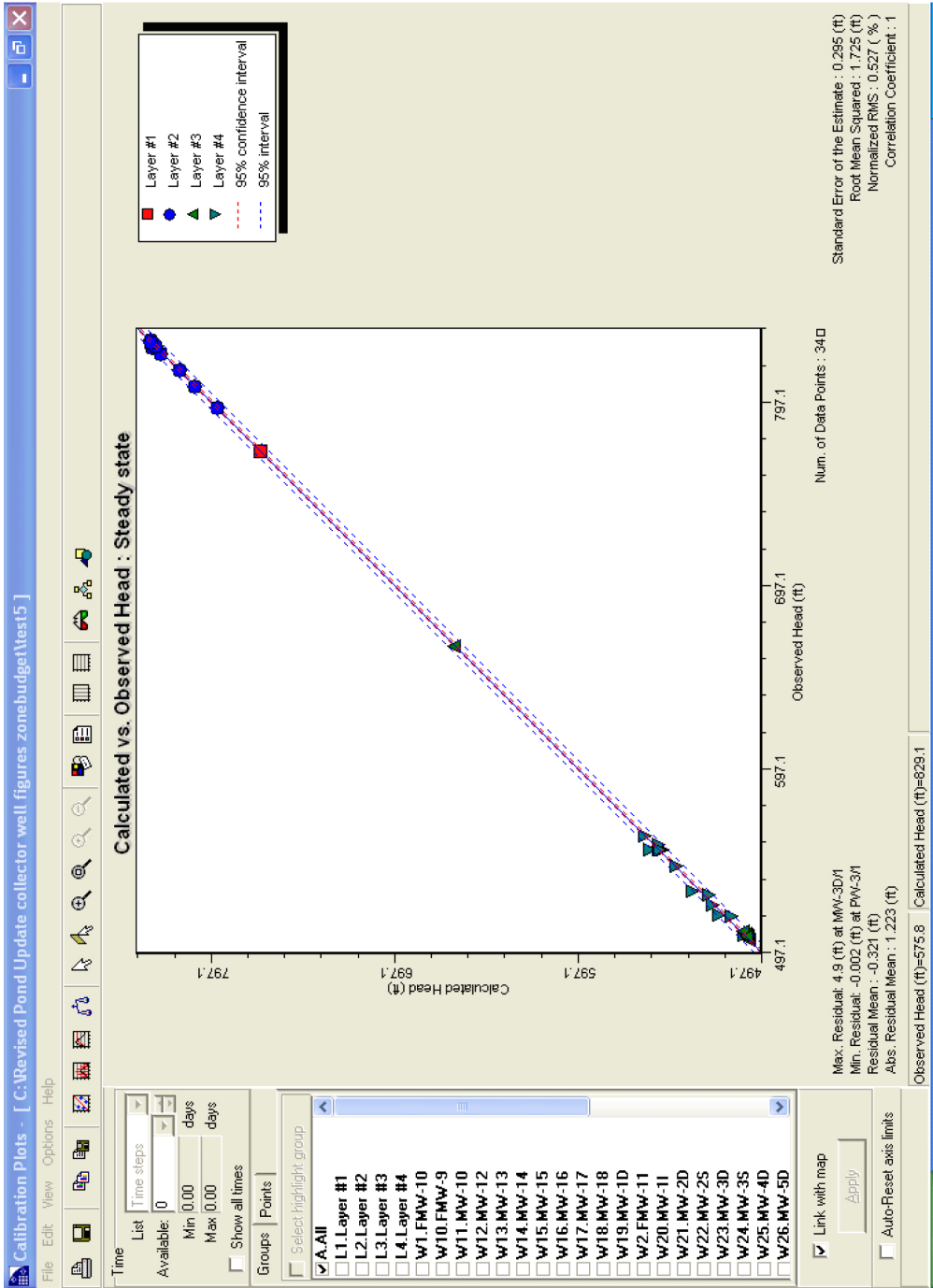
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Contours are steady-state groundwater elevations in feet msl. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-85—{Layer 4 Calibrated Groundwater Elevations}



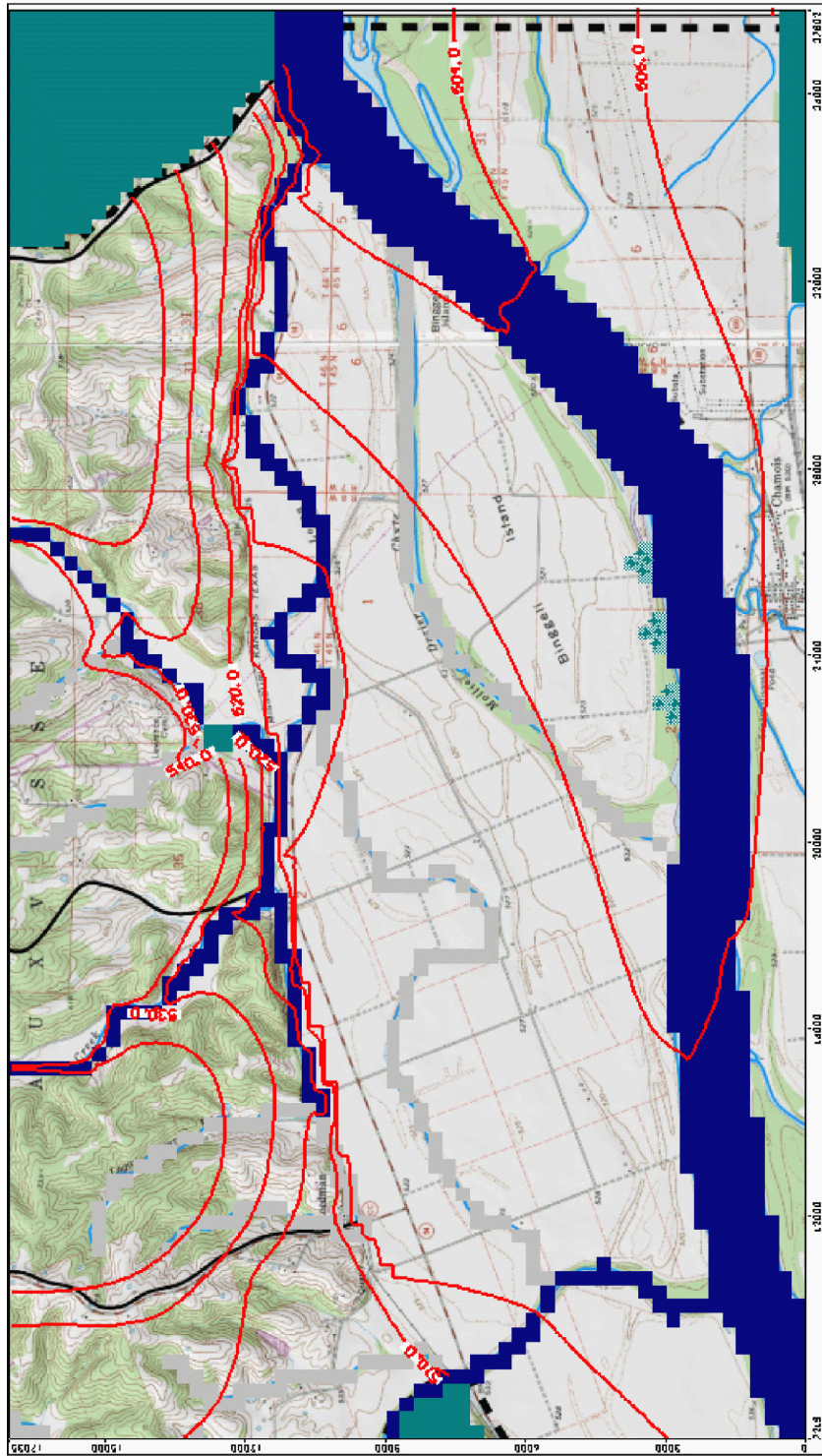
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Contours are steady-state groundwater elevations in feet msl. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-86—{Calibration Graph}



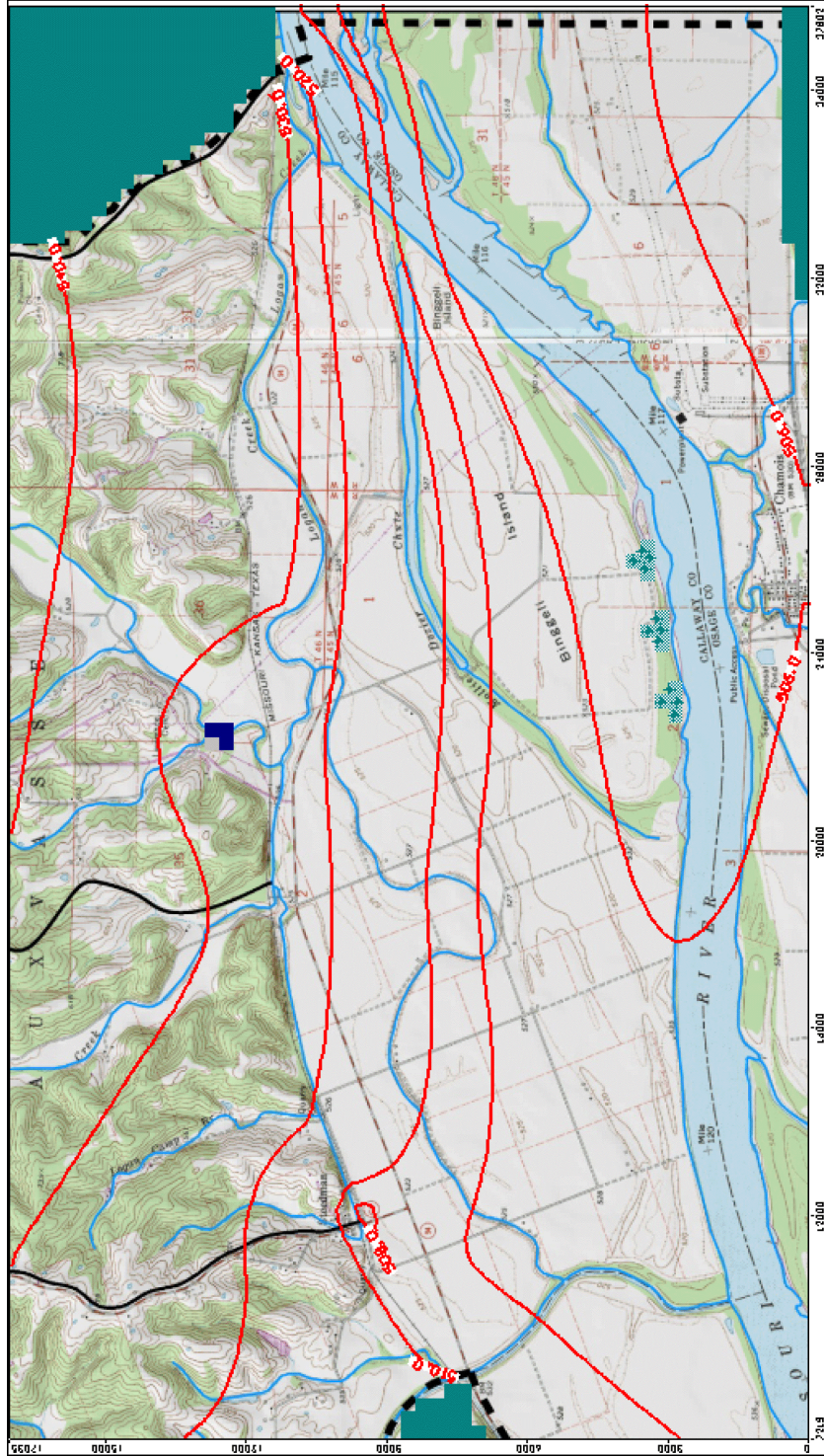
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Refer to text for detailed description.

Figure 2.4-87—{Alluvial Aquifer Pre-Pumping Groundwater Elevations}



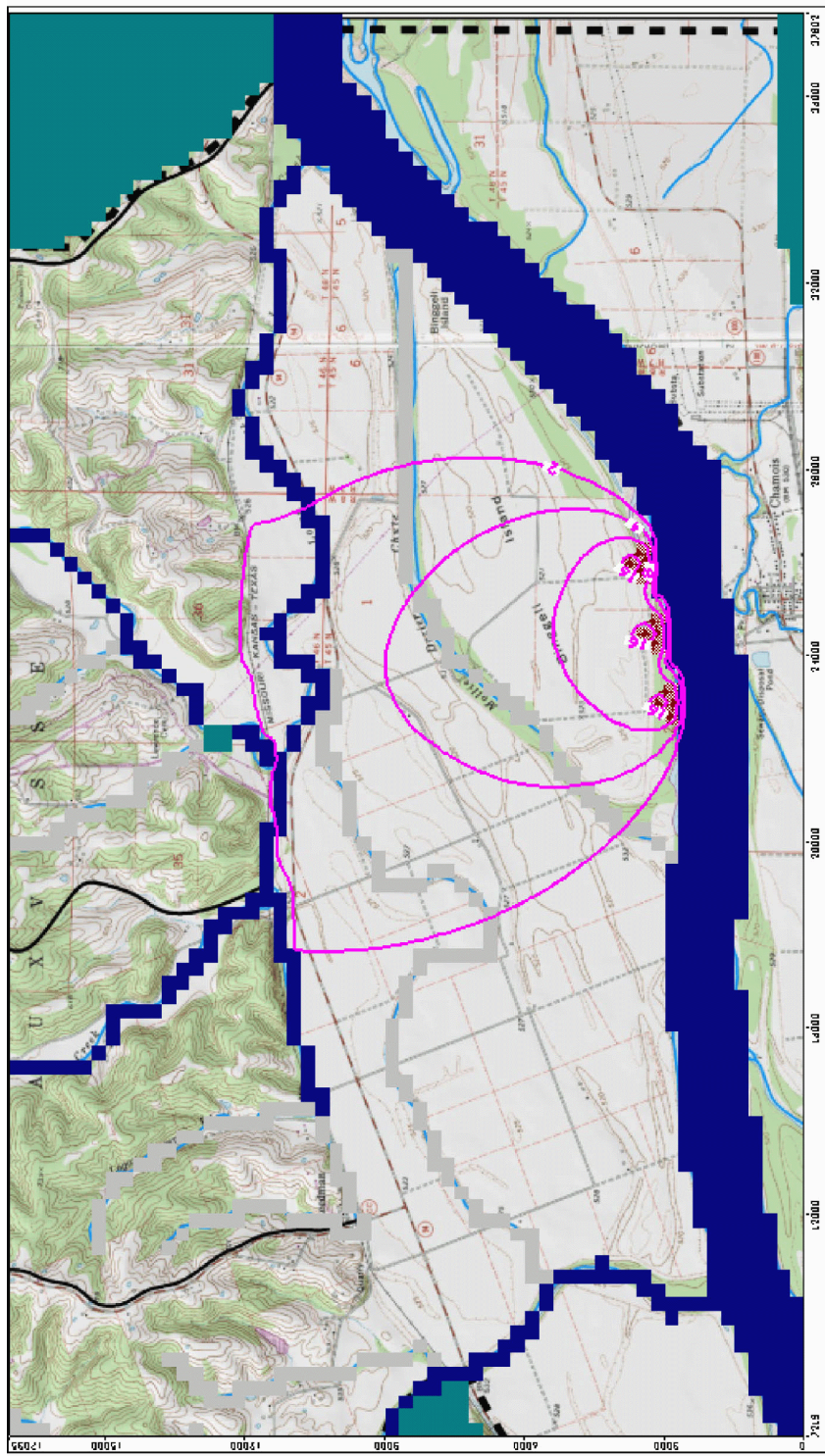
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Contours are steady-state groundwater elevations in feet msl. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-88—{CJC Aquifer Pre-Pumping Groundwater Elevations}



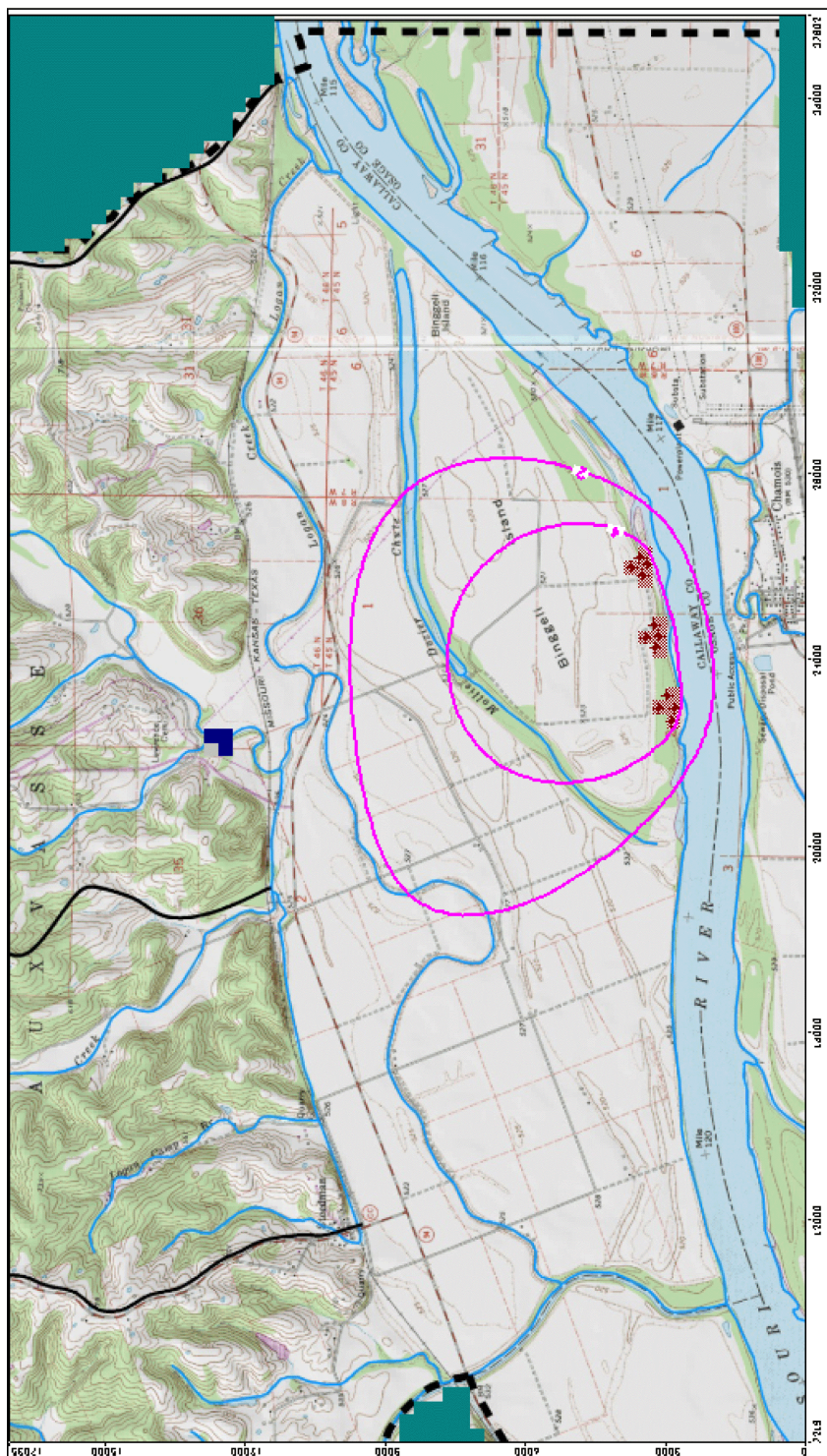
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Contours are steady-state groundwater elevations in feet msl. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-89—{Alluvial Aquifer Drawdown}



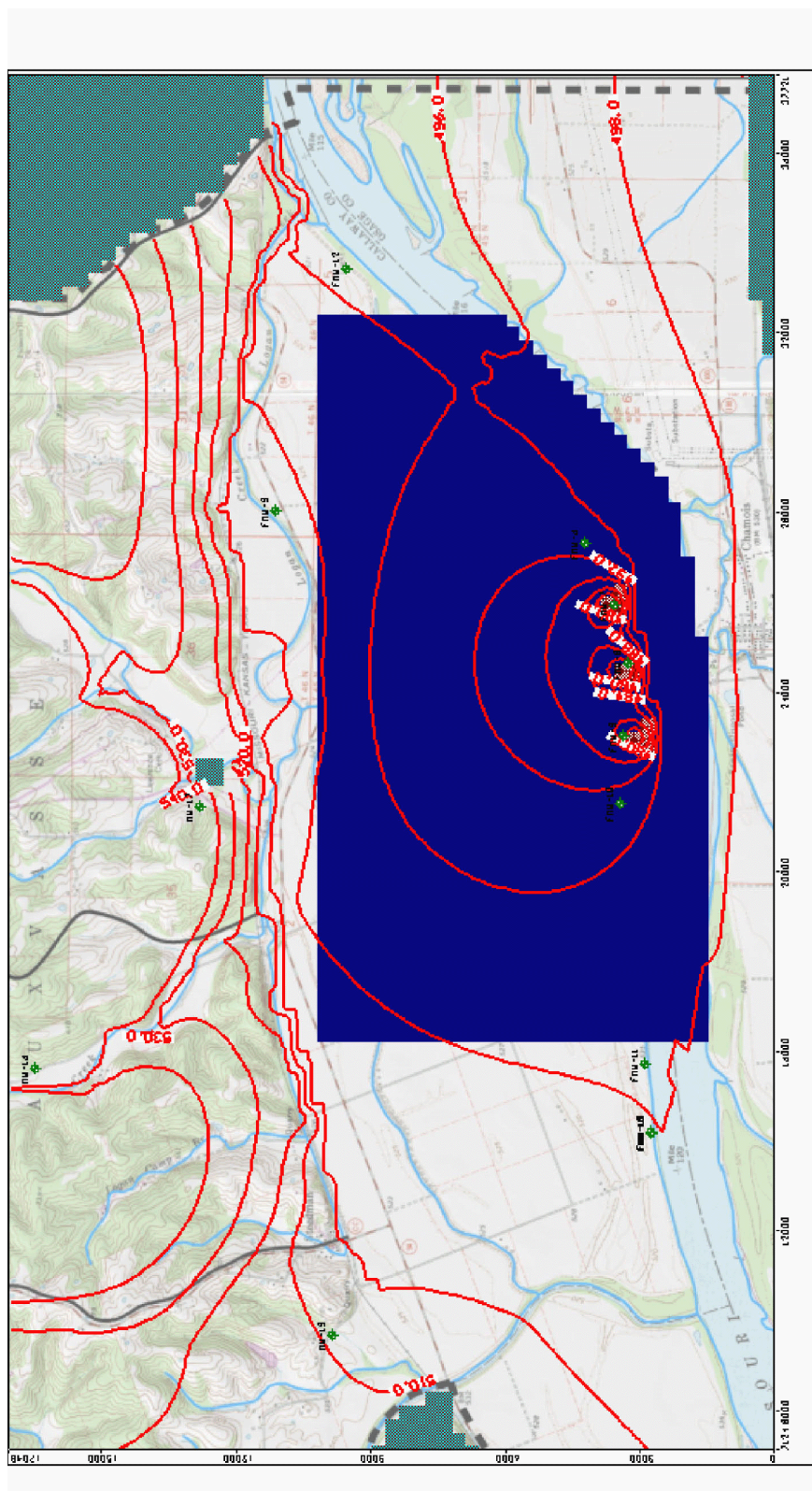
Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Contours are steady-state drawdown in feet. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-90—{CJC Aquifer Drawdown}



Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Contours are steady-state drawdown in feet. Model scale is shown on axes in feet. Refer to text for detailed description.

Figure 2.4-91—{Alluvial Aquifer Groundwater Elevations and Zone Budget Analysis}



Note: Contours are steady-state groundwater elevations in feet msl with the collector wells pumping during the 100-year drought.

Blue zone is the area over which Zone Budget calculations were performed. Model scale is shown on axes in feet.

Note: Image is a direct export from Visual MODFLOW Premium Version 4.2 Waterloo Hydrogeologic, Inc., Schlumberger Water Services, 2006. Refer to text for detailed description.

Figure 2.4-92—{Conceptual Groundwater Flow and Transport Pathways}

