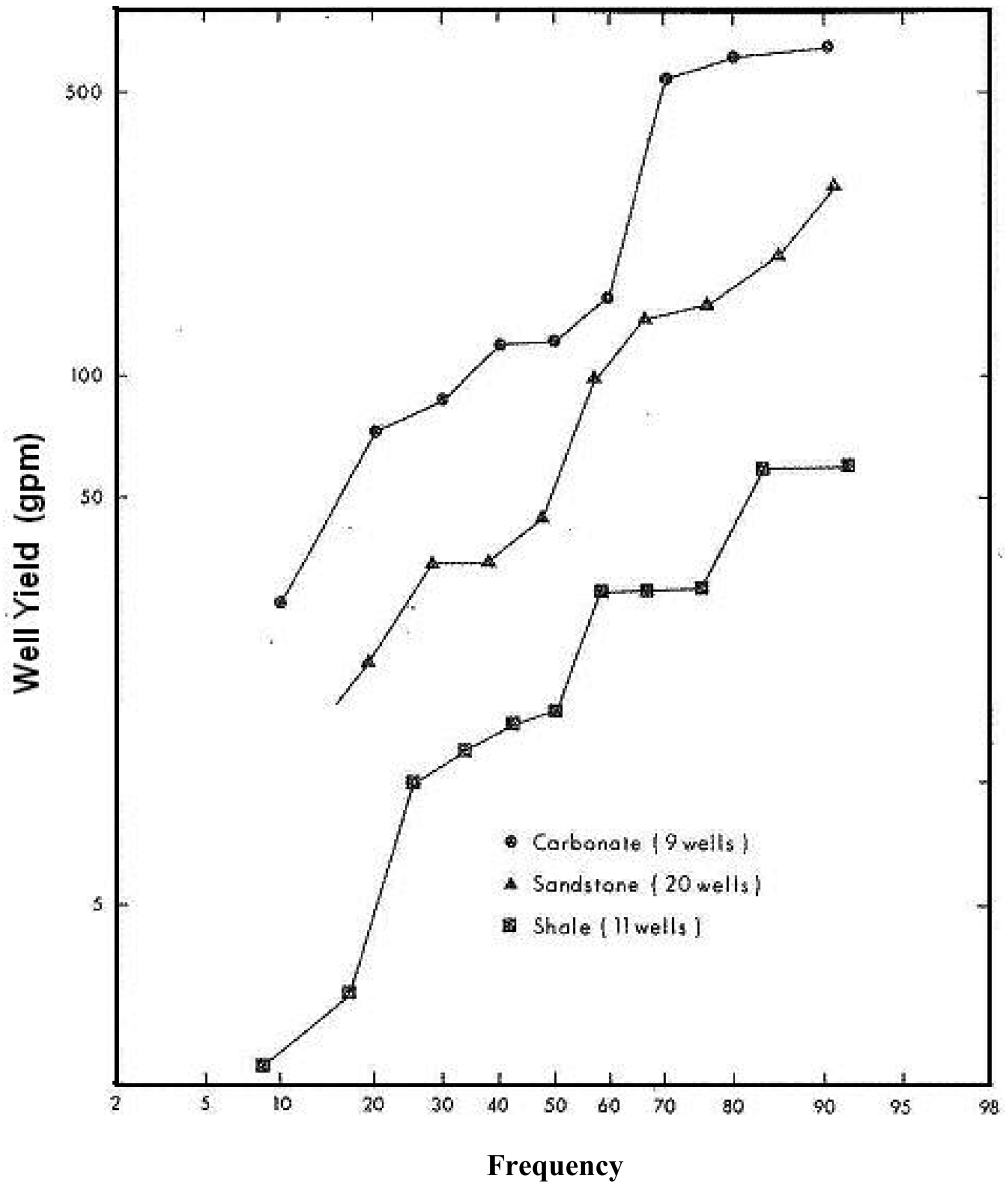
Figure 2.4-53— {Frequency Distribution of Nondomestic Well Yields Grouped According to Dominant Rock Type}



Reference: Taylor, 1984

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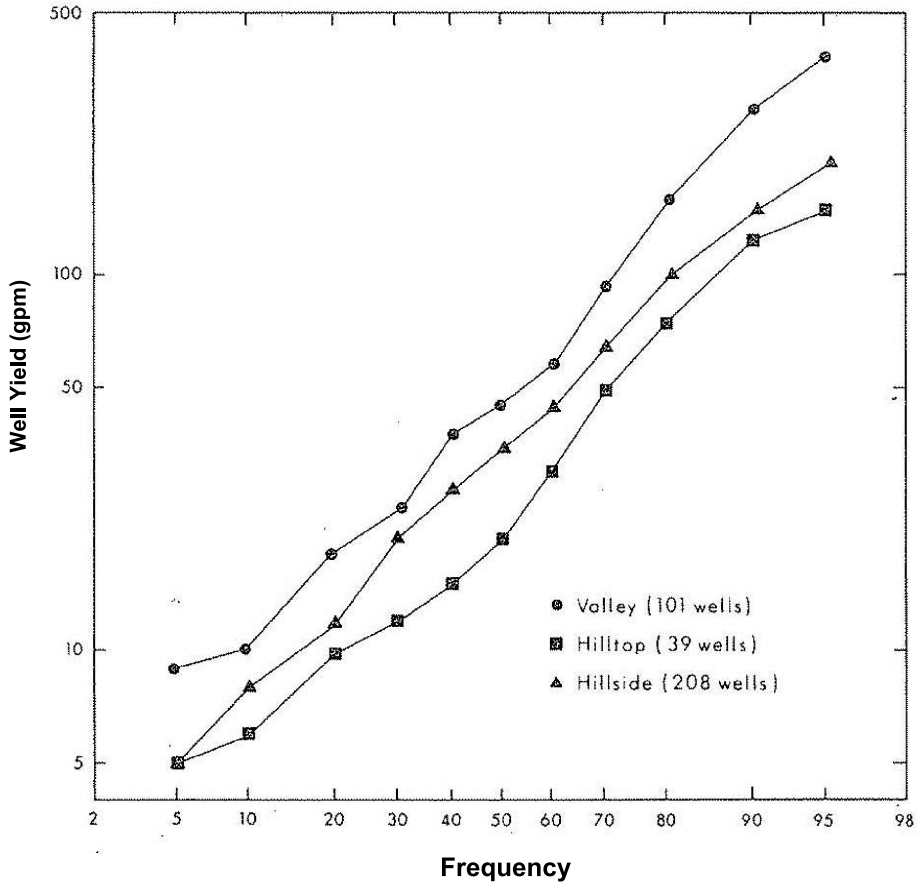
Figure 2.4-54— {Frequency Distribution of Nondomestic Well Yields Grouped According to Topographic Setting}



(percent of yield equal to or less than value shown)

Reference: Taylor, 1984

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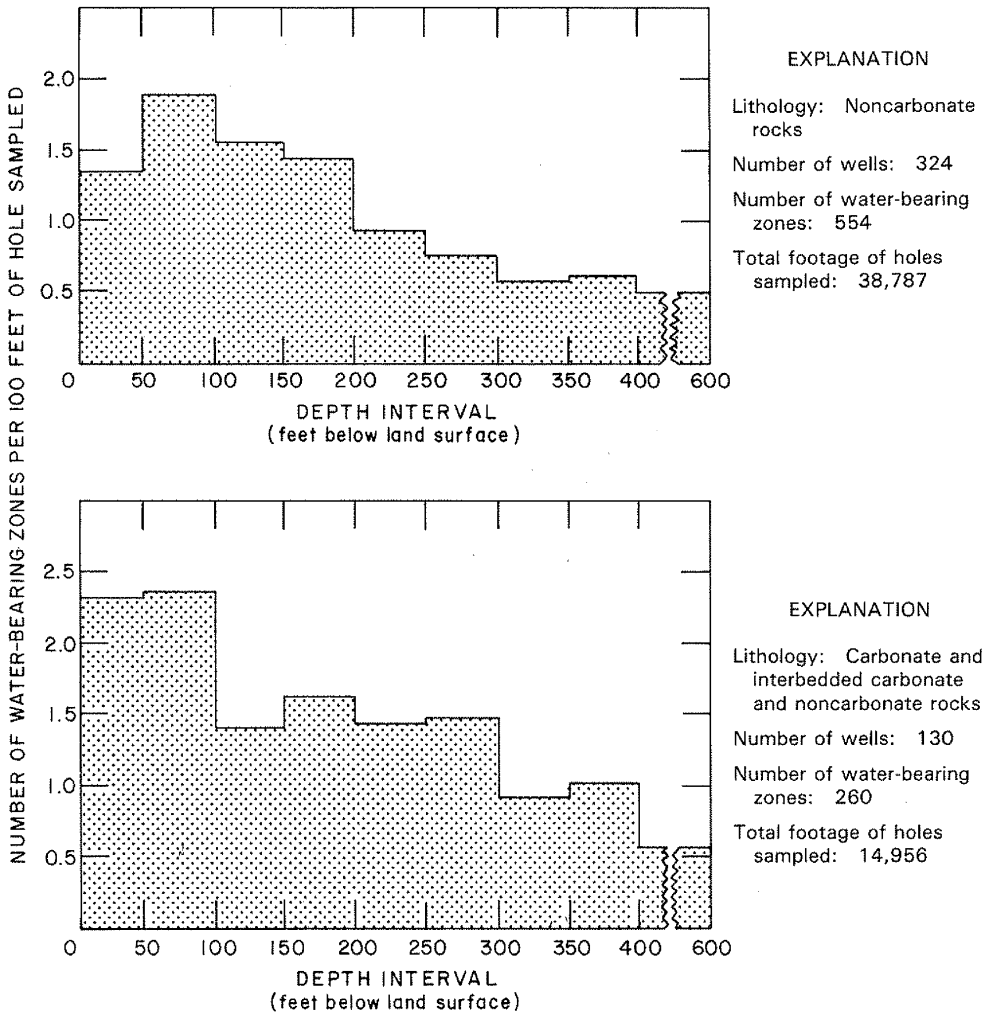
Figure 2.4-55— {Distribution of Water-Bearing Zones with Depth}



Reference: Williams, 1987

Distribution of Water-Bearing Zones With Depth

BBNPP FSAR

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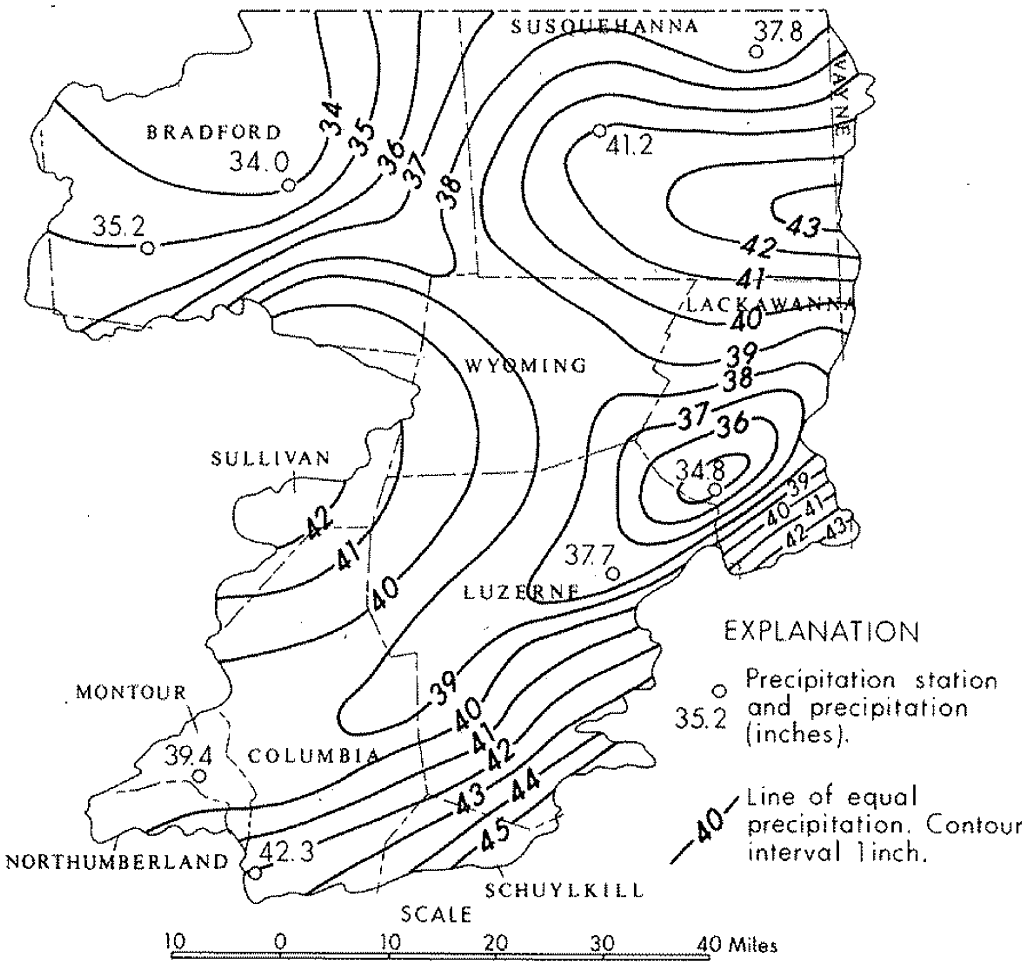
Figure 2.4-56— {Average Annual Precipitation in the North Branch Susquehanna River Basin (1941-1970)}



Reference: Taylor, 1984

Average Annual Precipitation in the North Branch Susquehanna River Basin, 1941 - 1970

BBNPP FSAR

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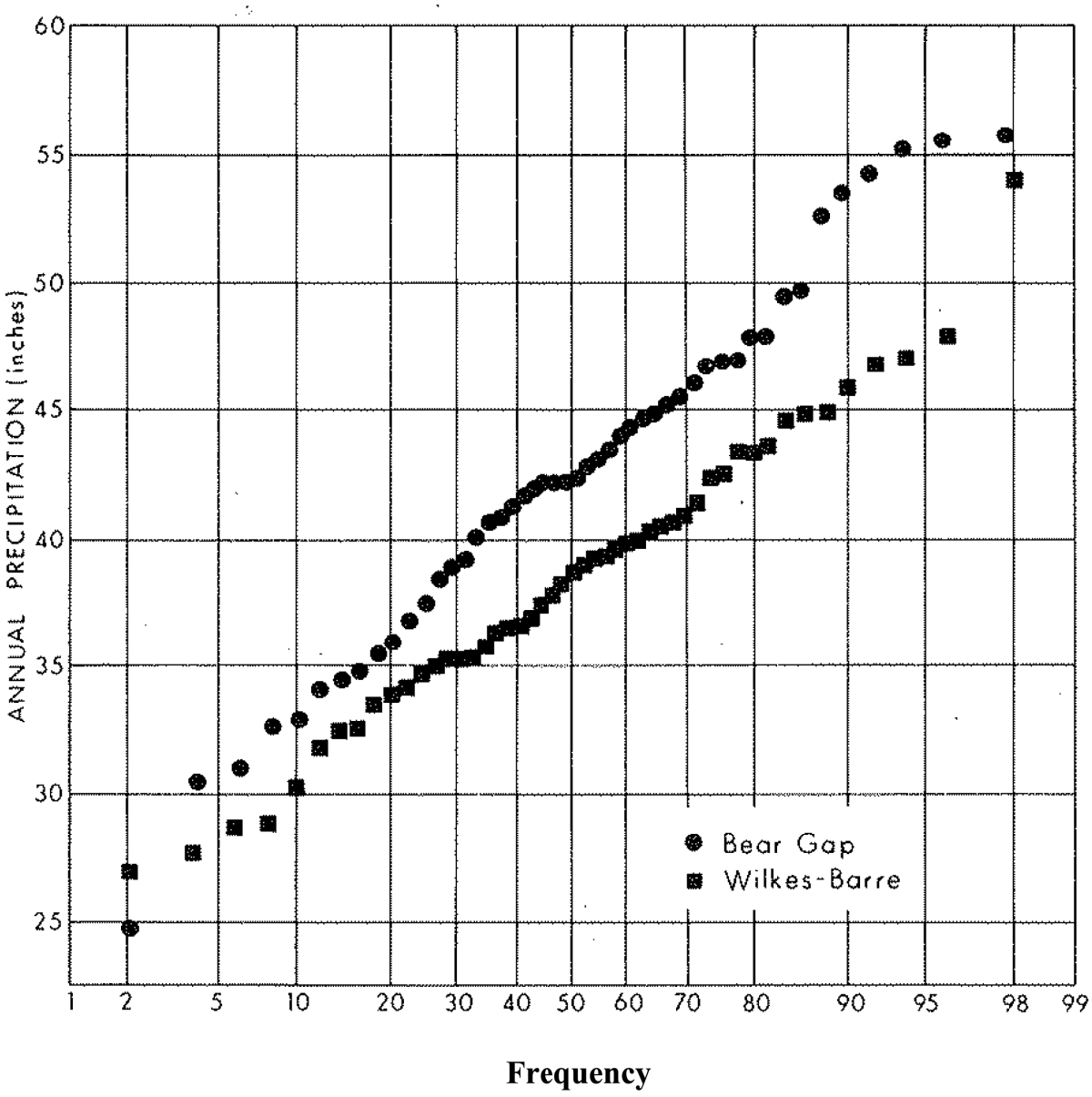
Figure 2.4-57— {Percent Frequency Distribution of Annual Precipitation in the Southern Part of the North Branch Susquehanna River Basin (1931-1980)}



Reference: Taylor, 1984

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Figure 2.4-58— {Locations of Drainage Basins Where Long-Term Water Budget Analyses Have Been Performed}

Reference: Taylor, 1984

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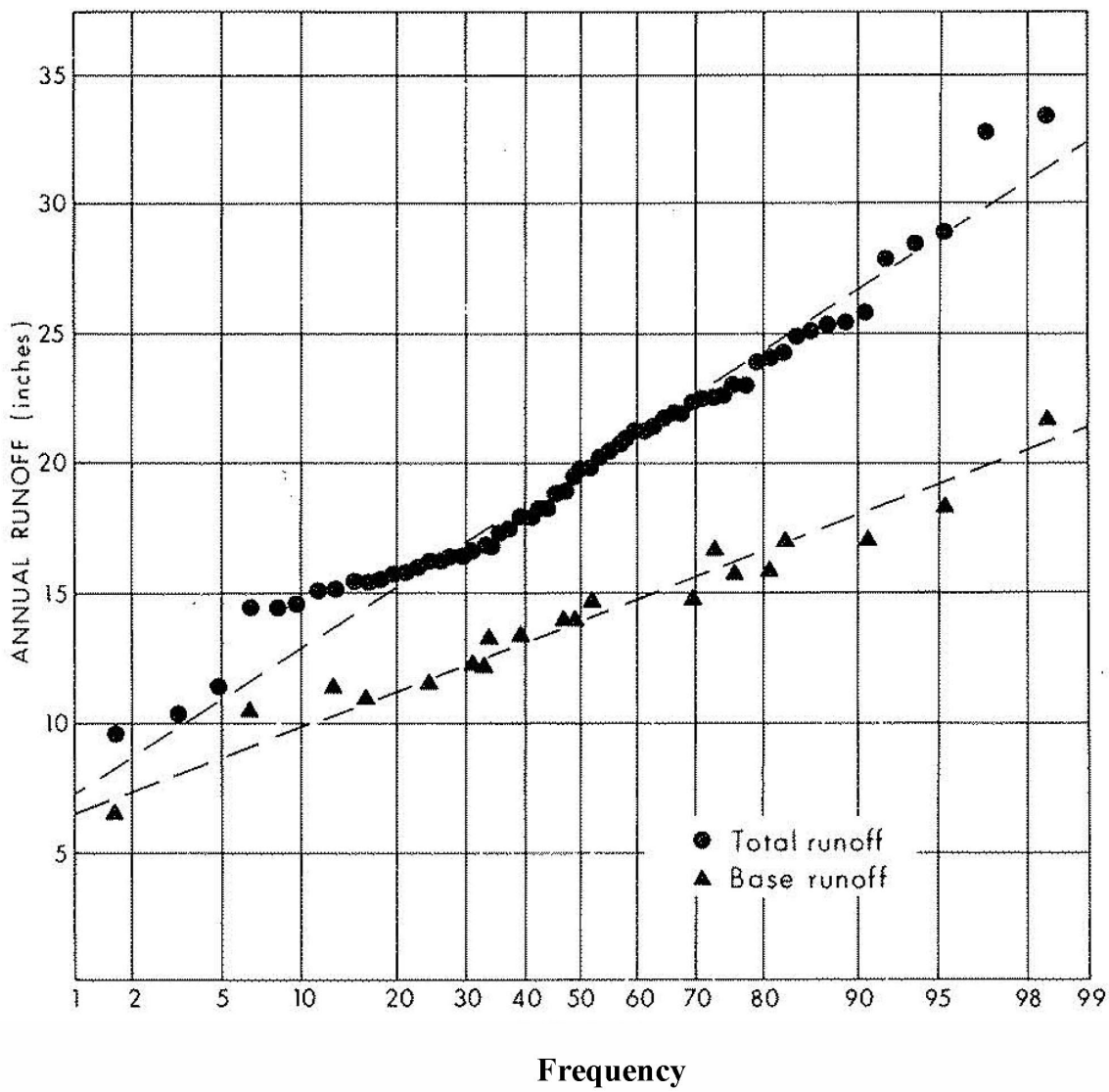
Figure 2.4-59— {Percent Frequency Distribution of Annual Runoff from Wapwallopen Creek, Pennsylvania (1920-1980}



Reference: Taylor, 1984

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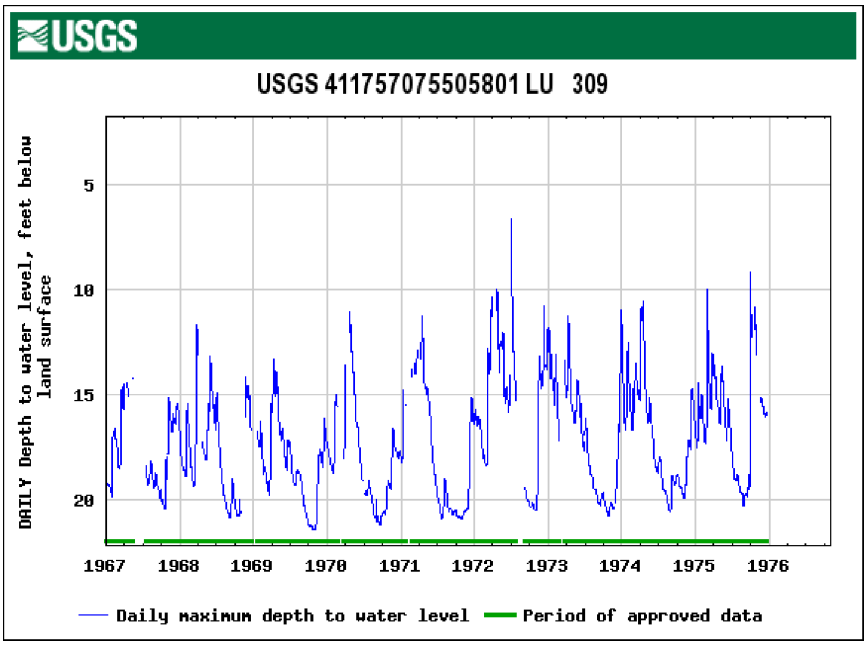
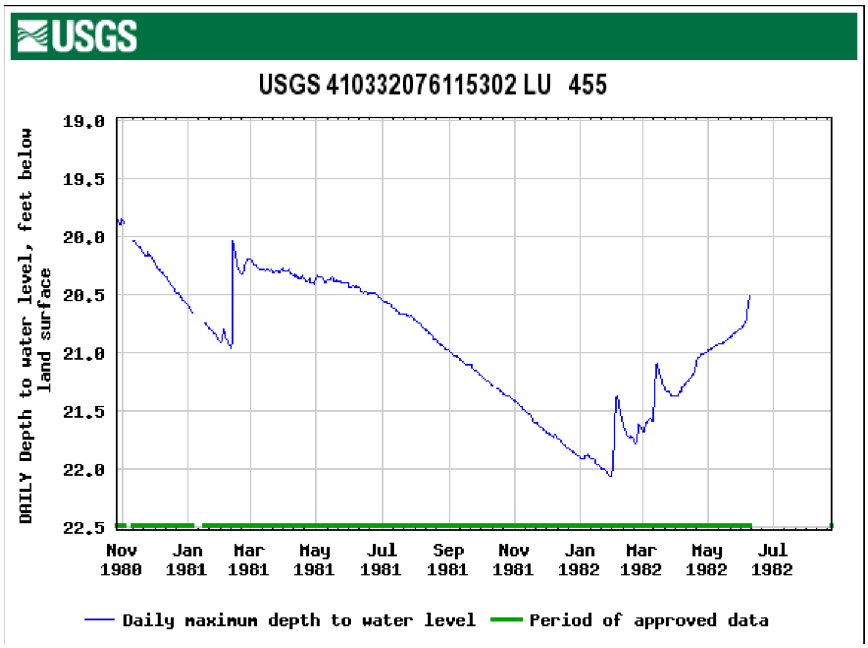
Figure 2.4-60— {Hydrographs of Two USGS Monitoring Wells in Luzerne County Screened in Glacial Overburden}





Reference: USGS, 2008j

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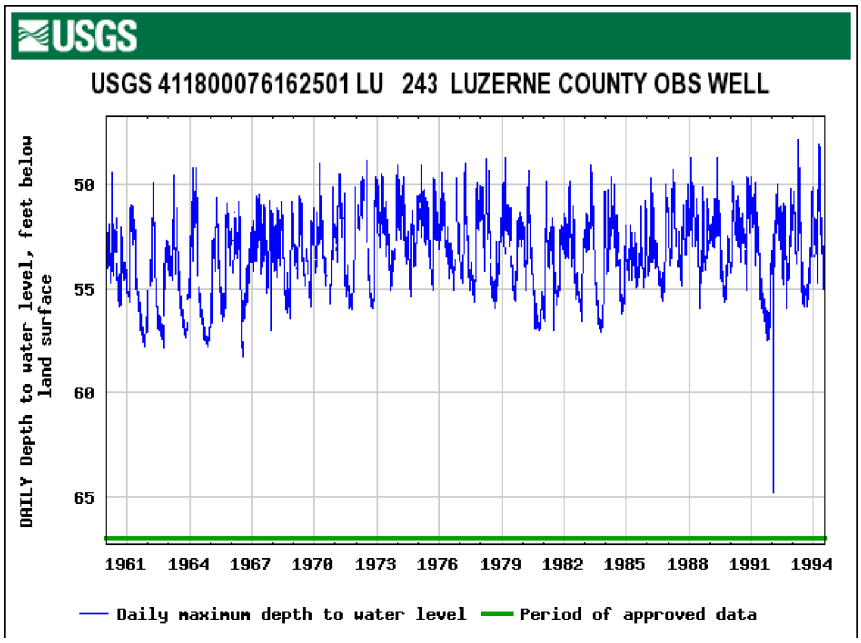
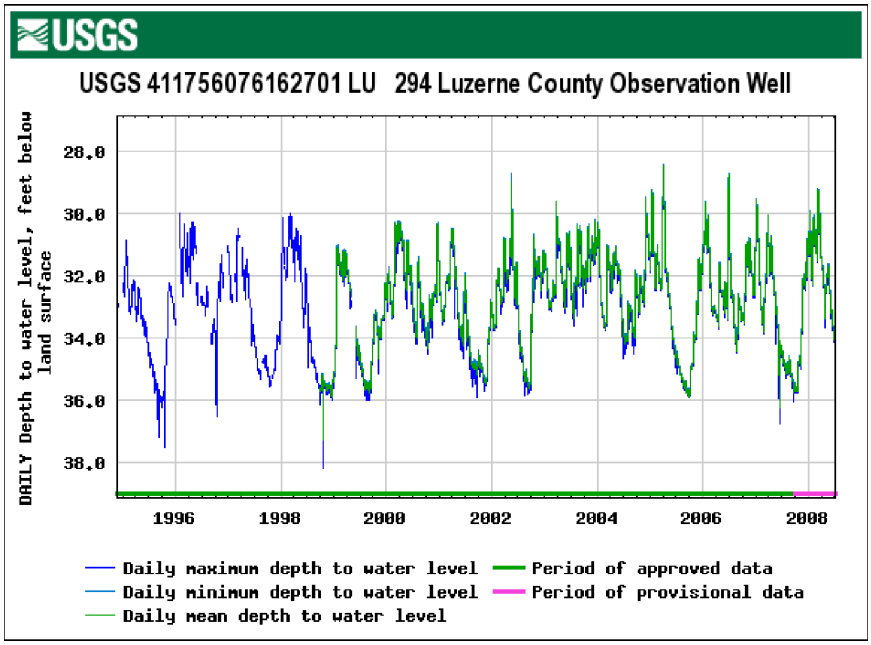
Figure 2.4-61— {Hydrographs of Two USGS Monitoring Wells in Luzerne County Screened in the Catskill Formation}





Reference: USGS, 2008j

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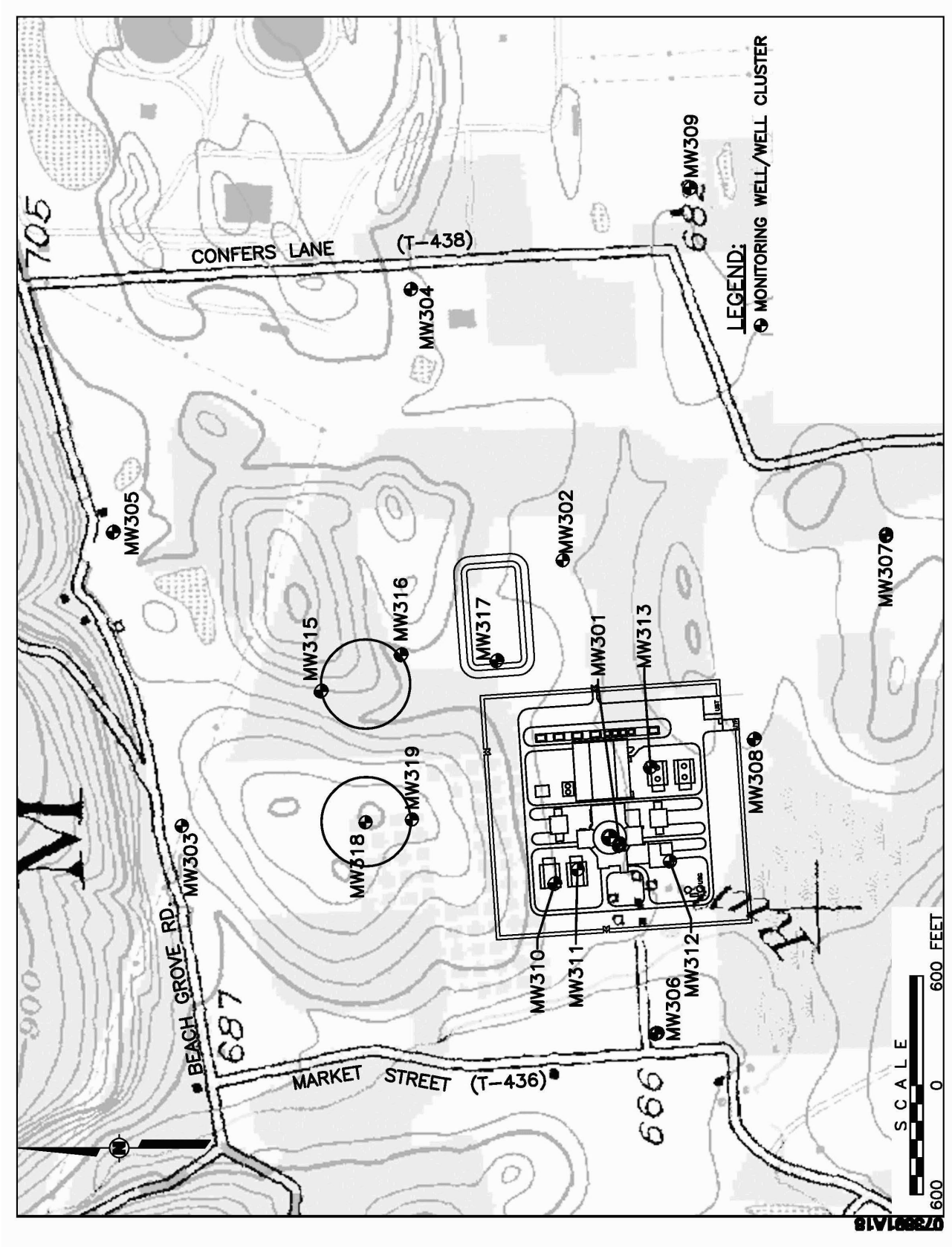

Figure 2.4-62— {Locations of Groundwater Monitoring Wells}

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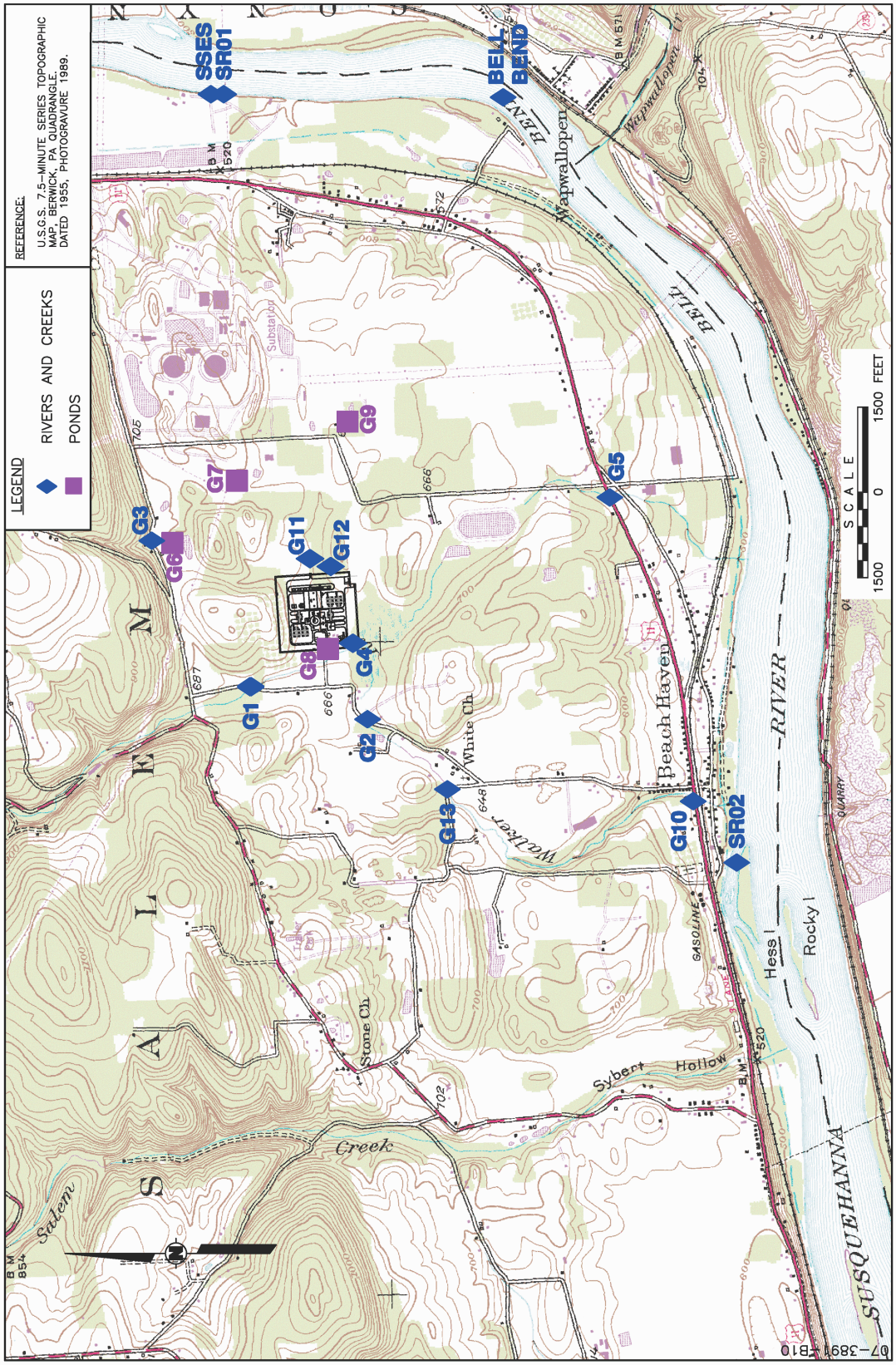
Figure 2.4-63— {Locations of BBNPP Surface Water Monitoring Stations}



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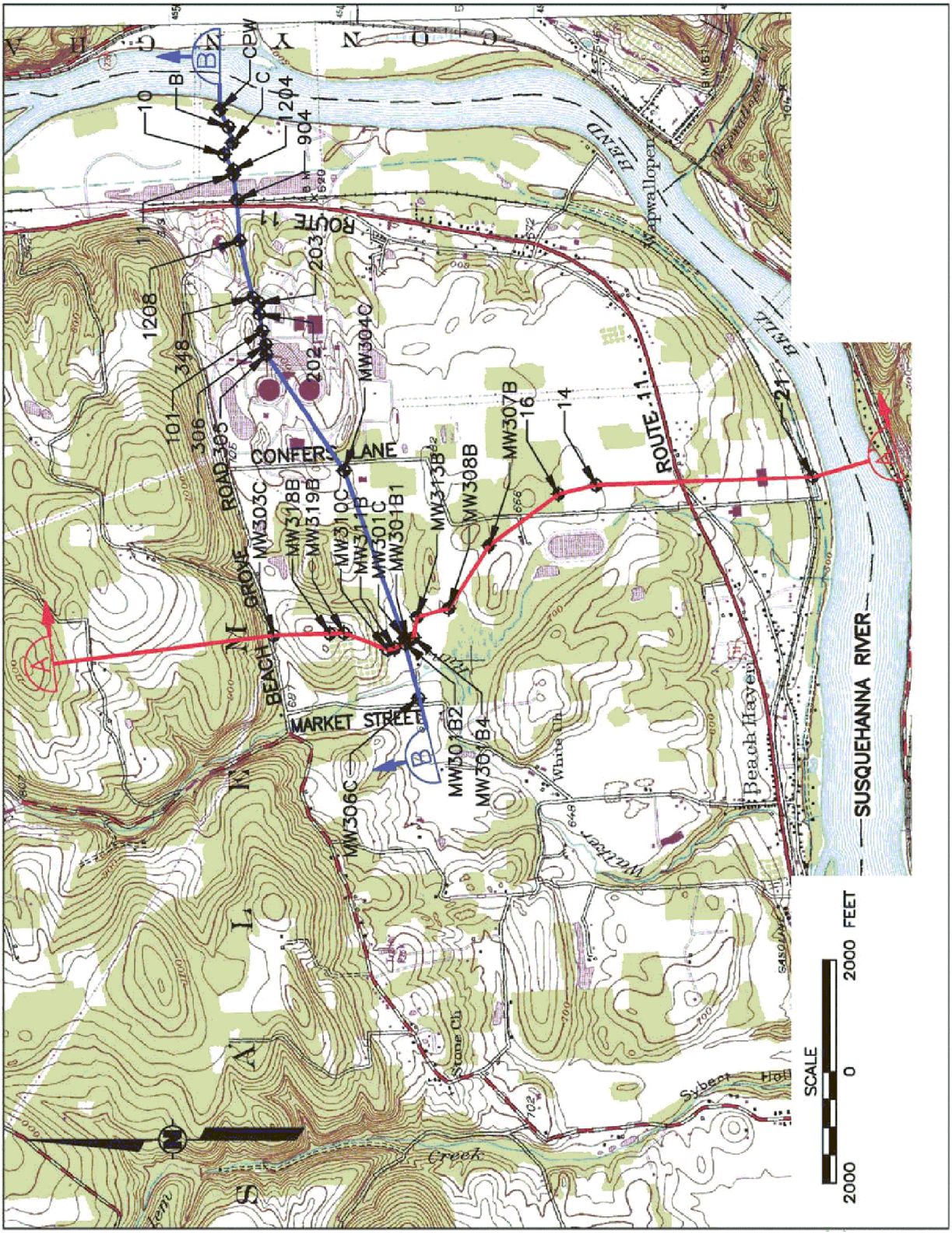

Figure 2.4-64— {Location of Hydrogeological Cross Sections}

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Figure 2.4-65— {Hydrogeological Cross Section A-A'}

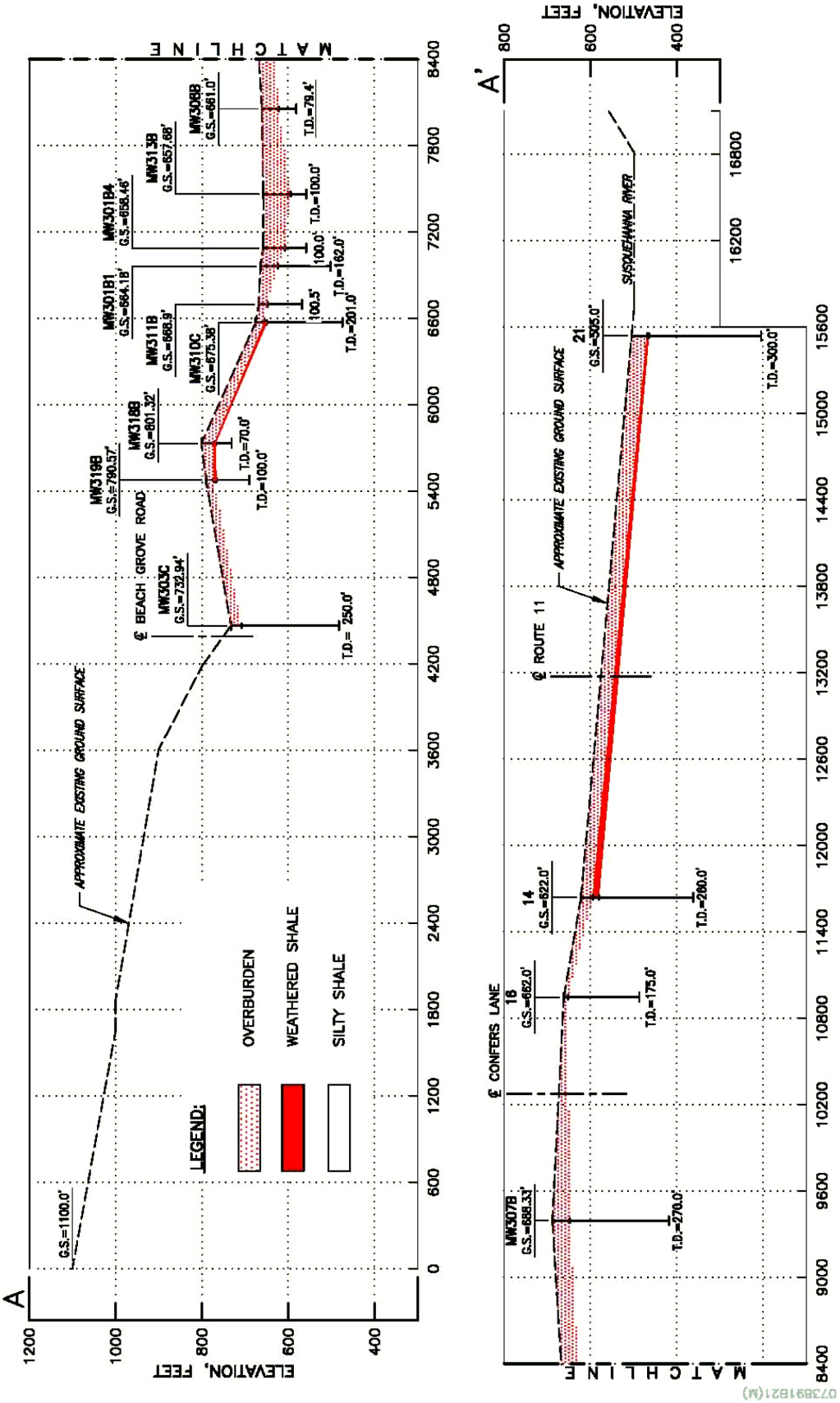

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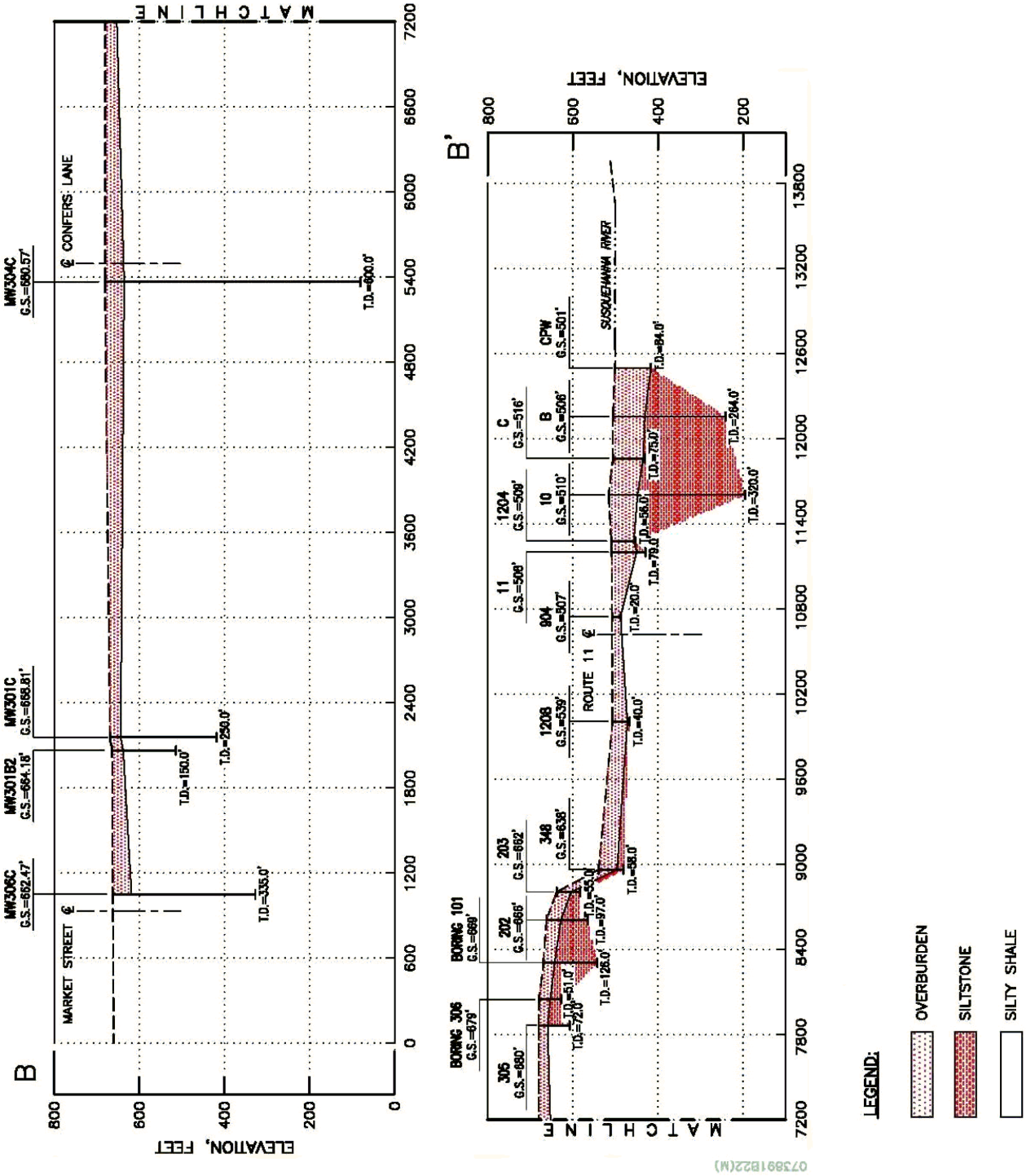
Figure 2.4-66— {Hydrogeological Cross Section B-B'}



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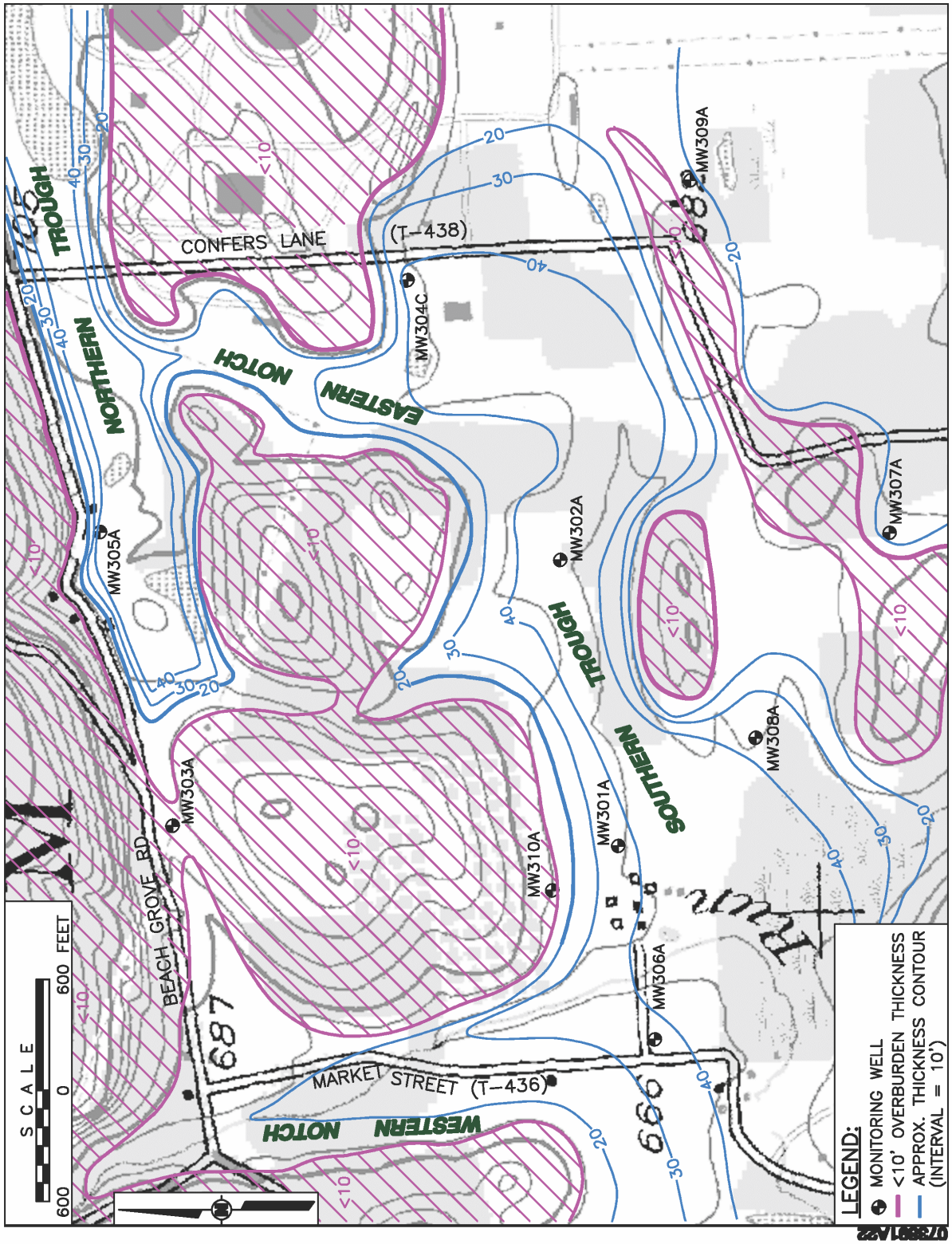

Figure 2.4-67— {Saturated Thickness Map of the Glacial Overburden Aquifer}

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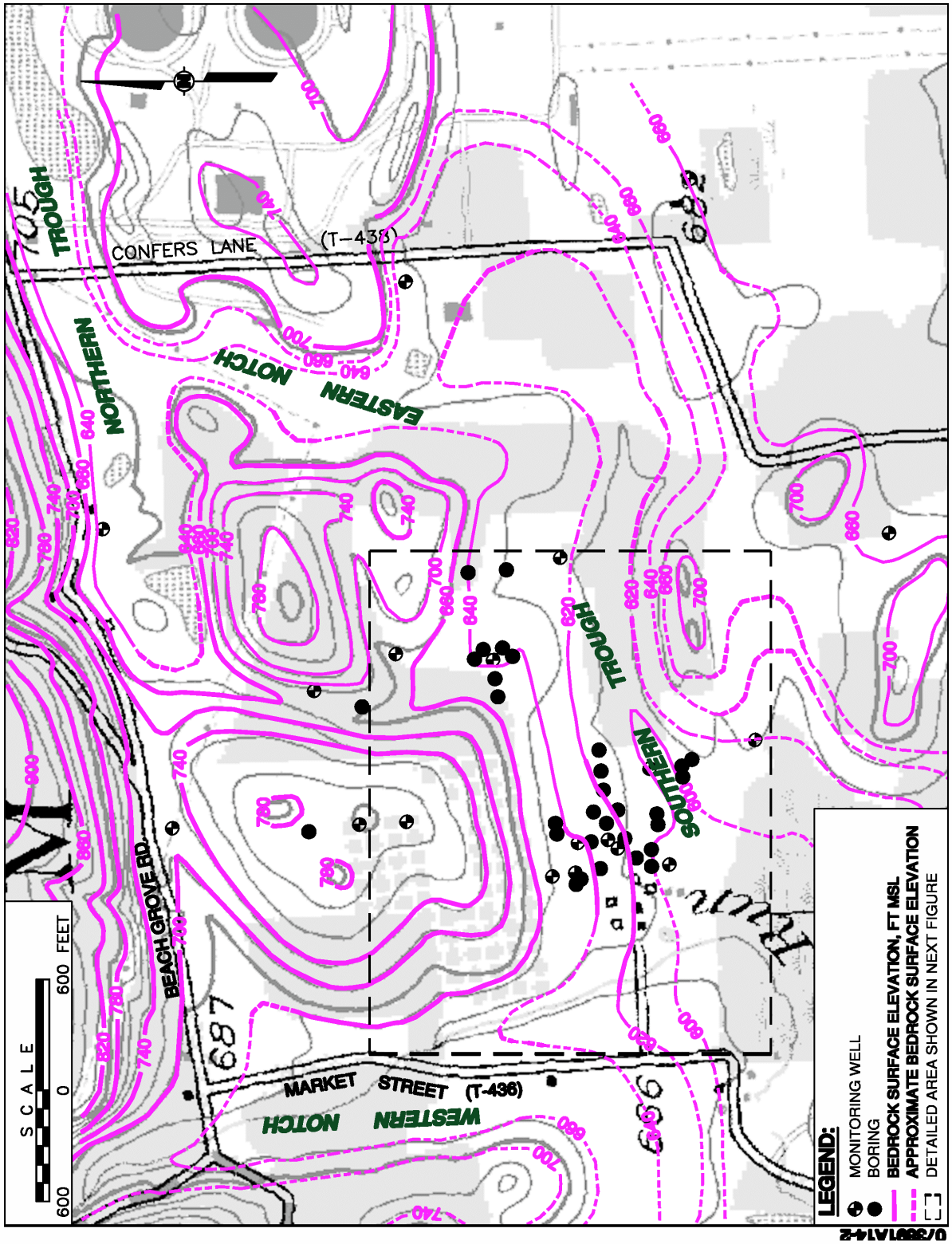

Figure 2.4-68— {Topography of the Bedrock Surface}

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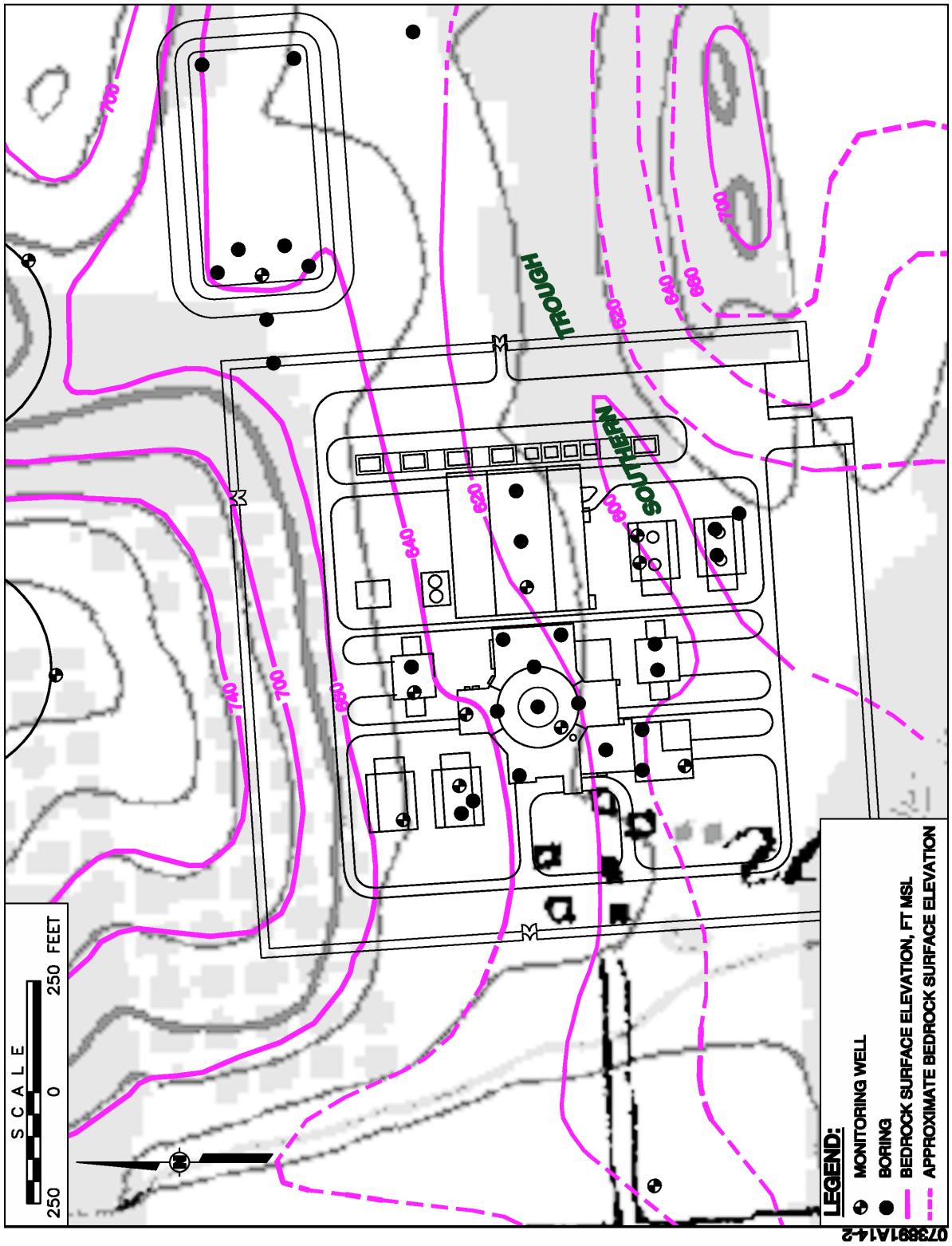

Figure 2.4-69— {Topography of the Bedrock Surface in the Power Block Area}

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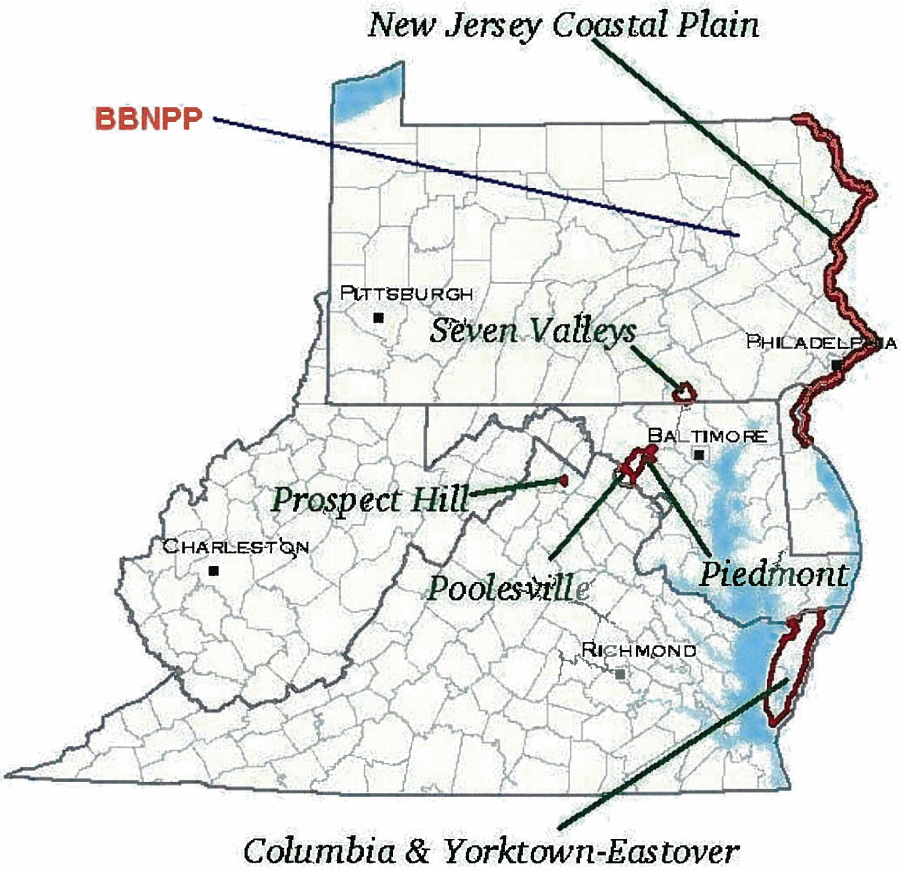
Figure 2.4-70— {Sole Source Aquifers Located in USEPA Region 3}



Reference: USEPA, 2008d

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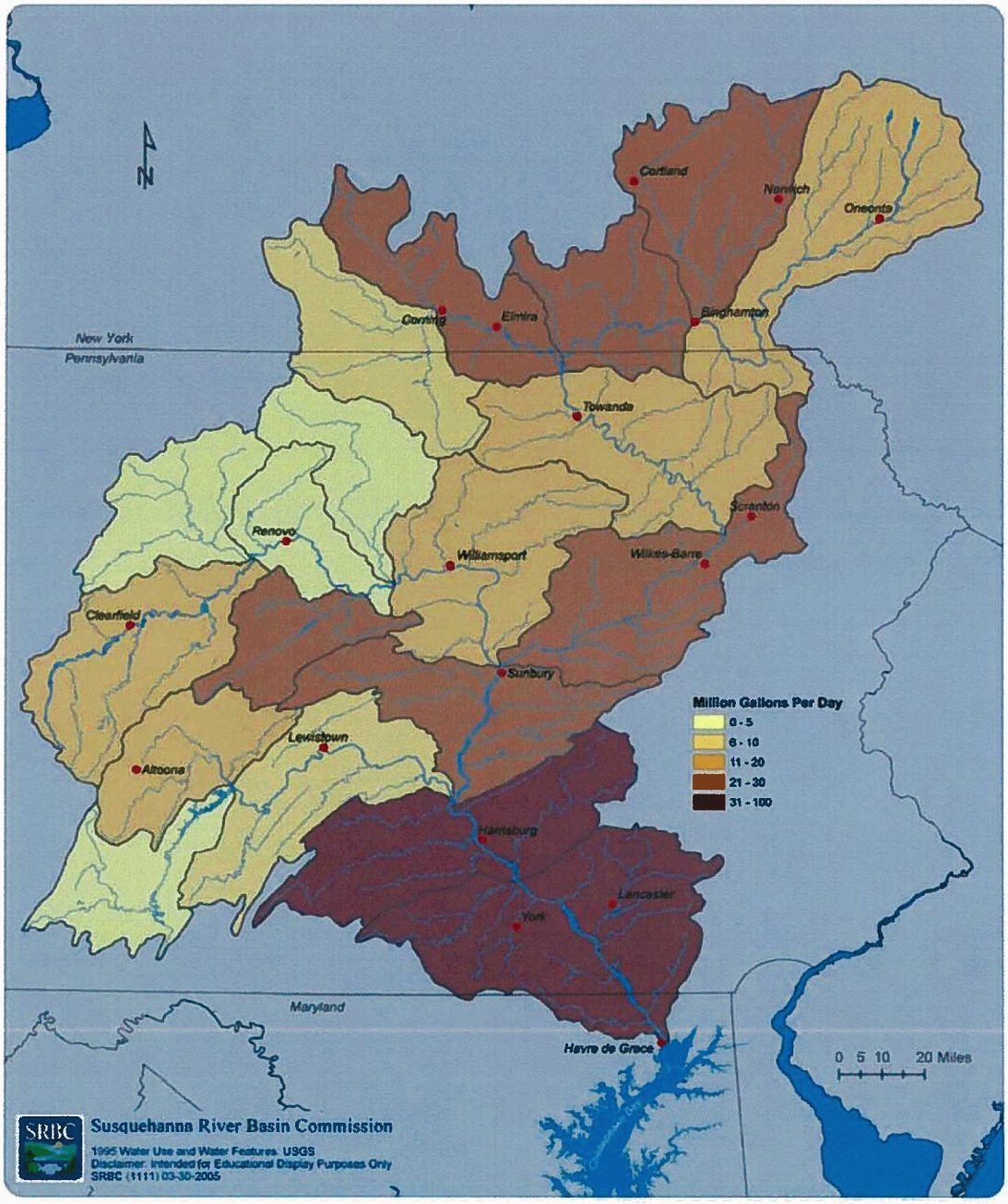
Figure 2.4-71— {Groundwater Use in the Susquehanna River Basin 1995}



Reference: SRBC, 2005

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Figure 2.4-72— {Groundwater Well Locations within a 25-Mile (40 km) Radius (PaGWIS Data)}

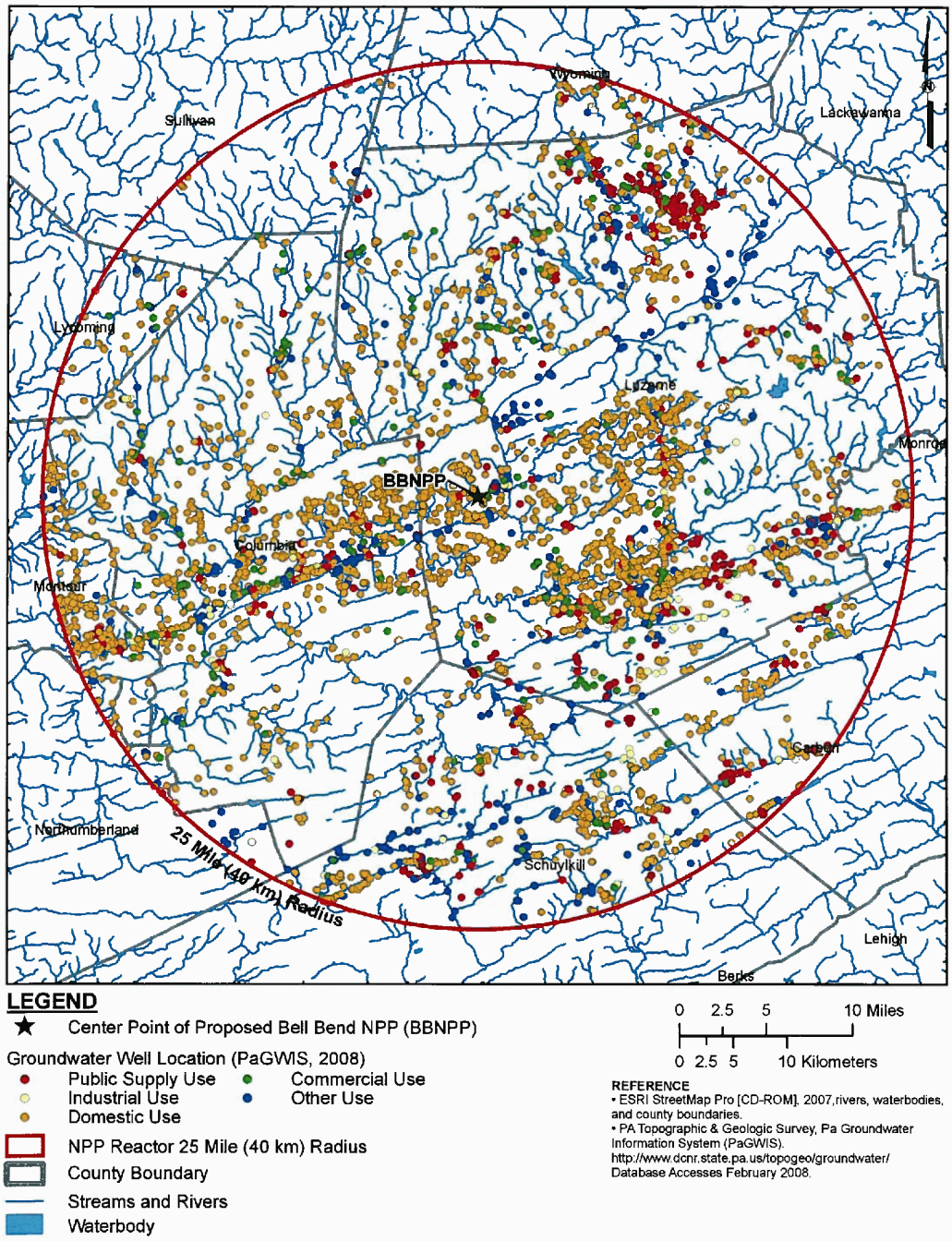

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Figure 2.4-73— {Groundwater Well Locations within a 5 Mile (80 km) Radius (PaGWIS Data)}

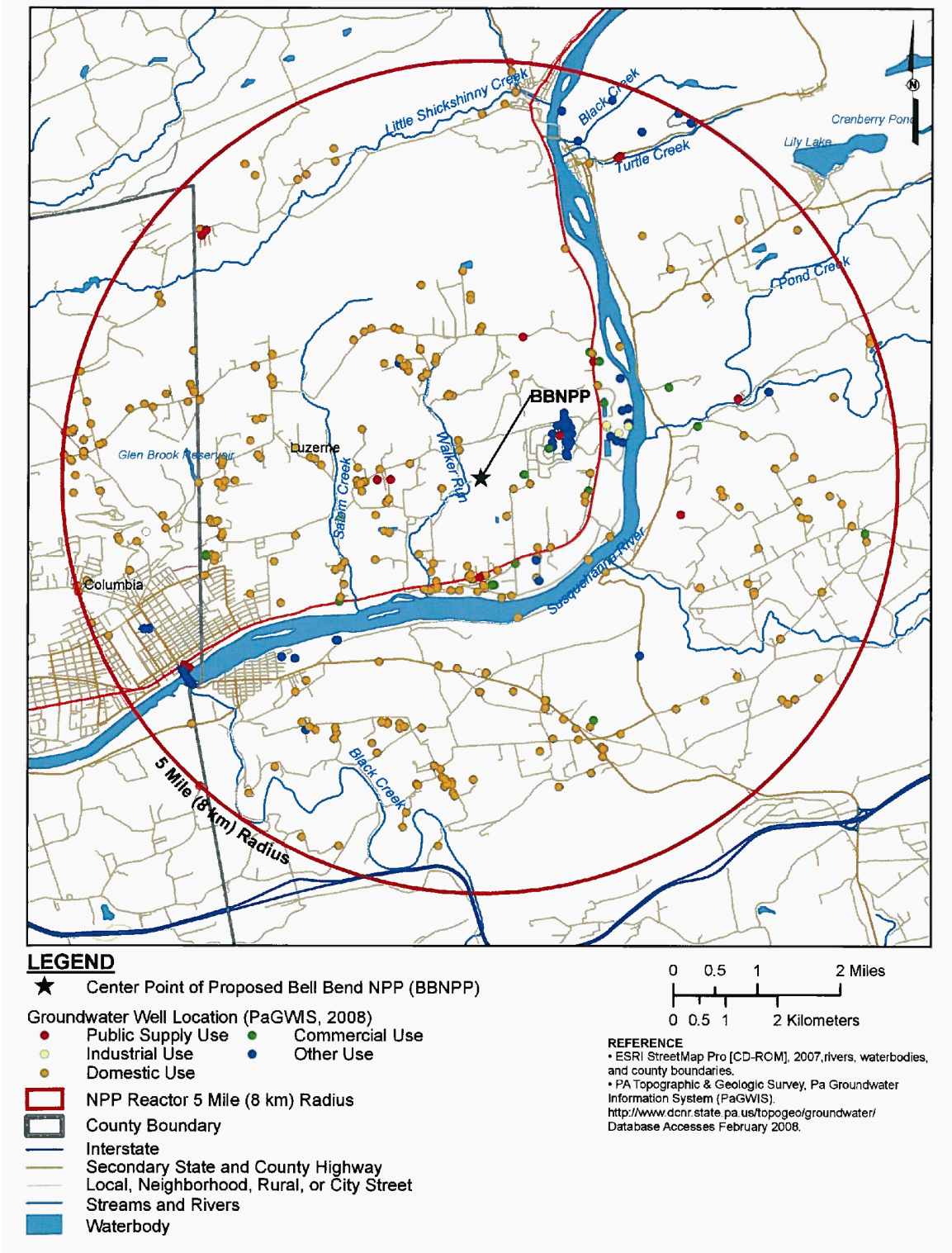

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Figure 2.4-74— {Groundwater Withdrawal within a 25-Mile (40-km) Radius (PaGWIS Data)}

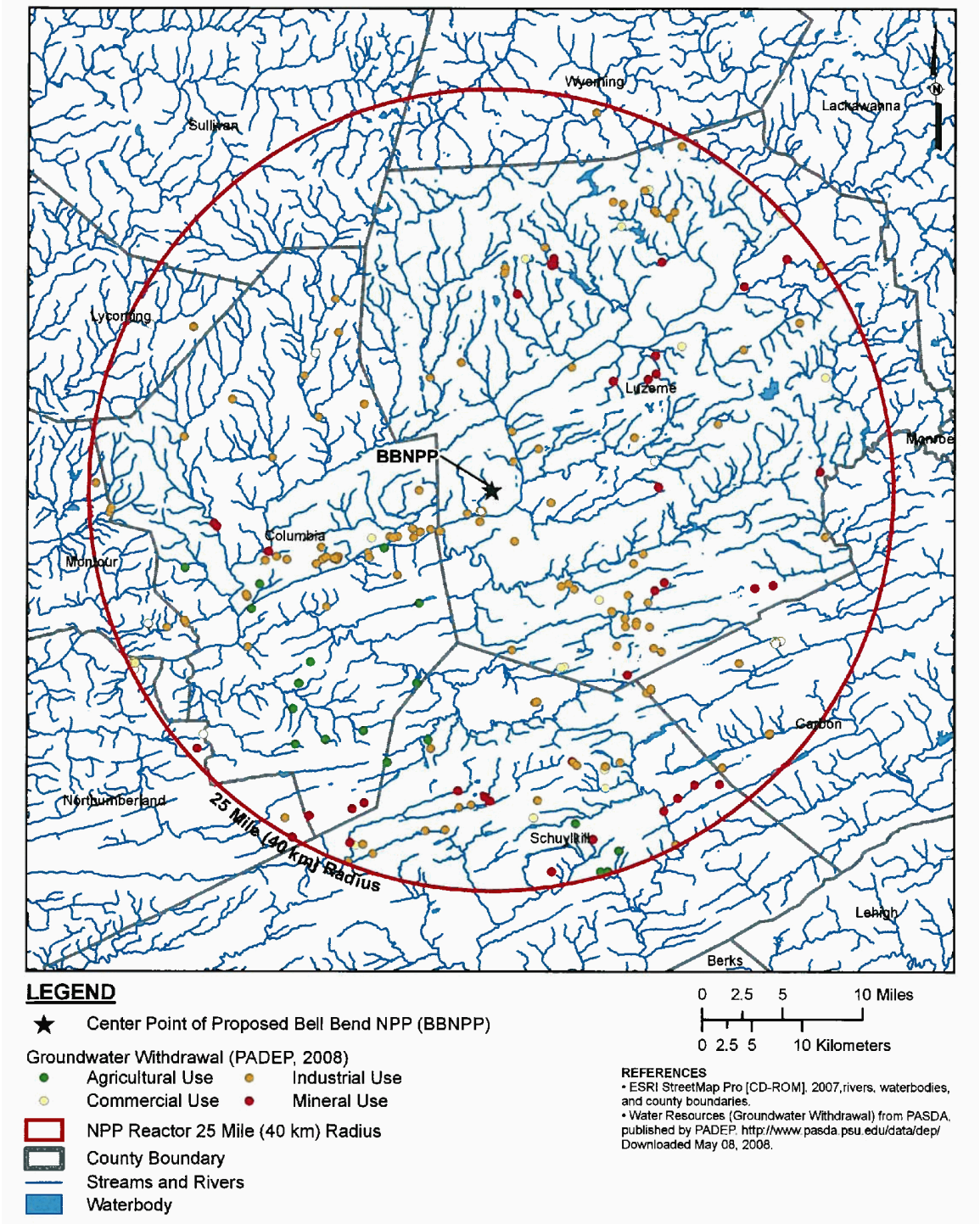

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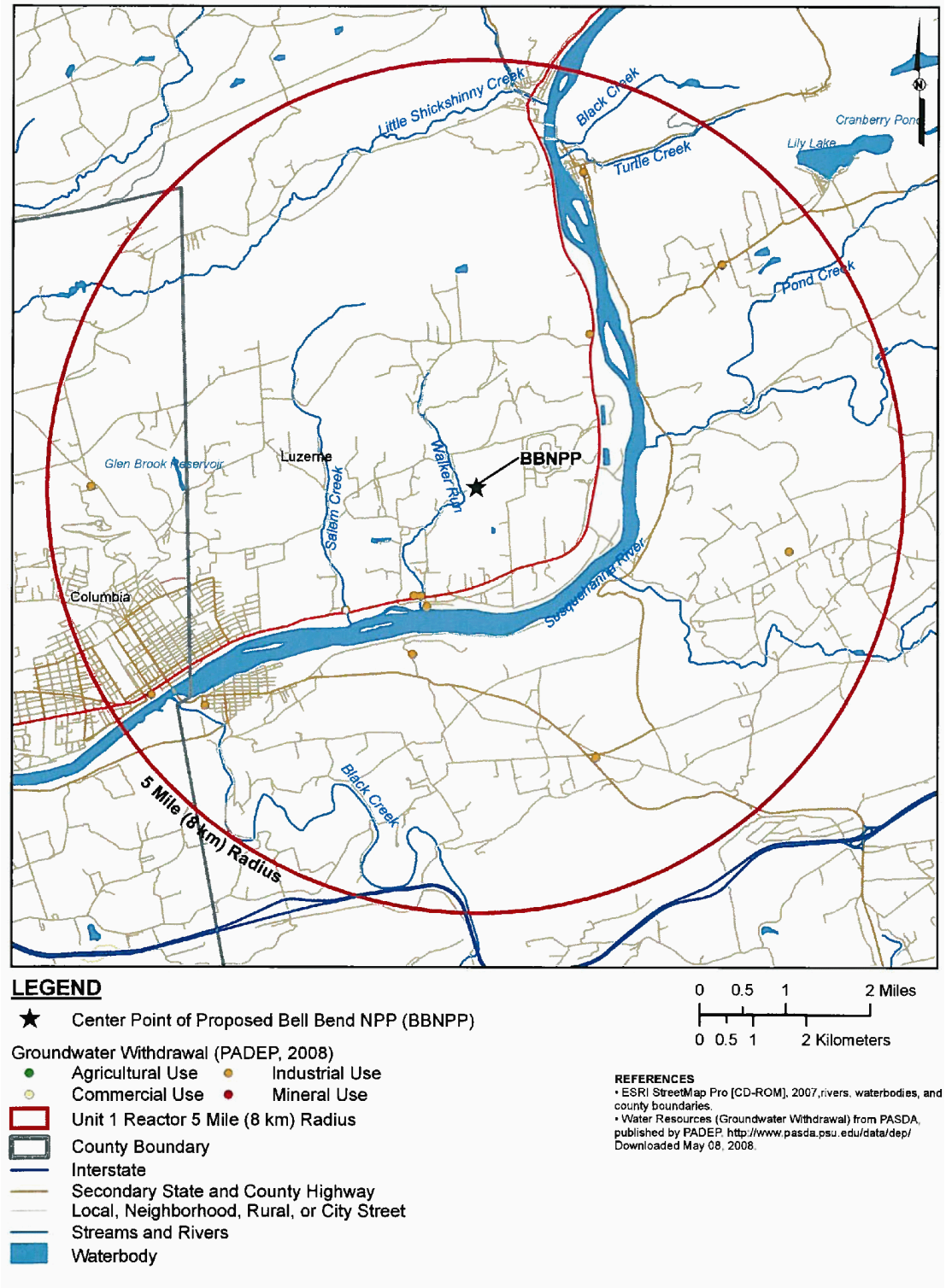
Figure 2.4-75— {Groundwater Withdrawal within a 5-Mile (8-km) Radius (PaDEP Data)}



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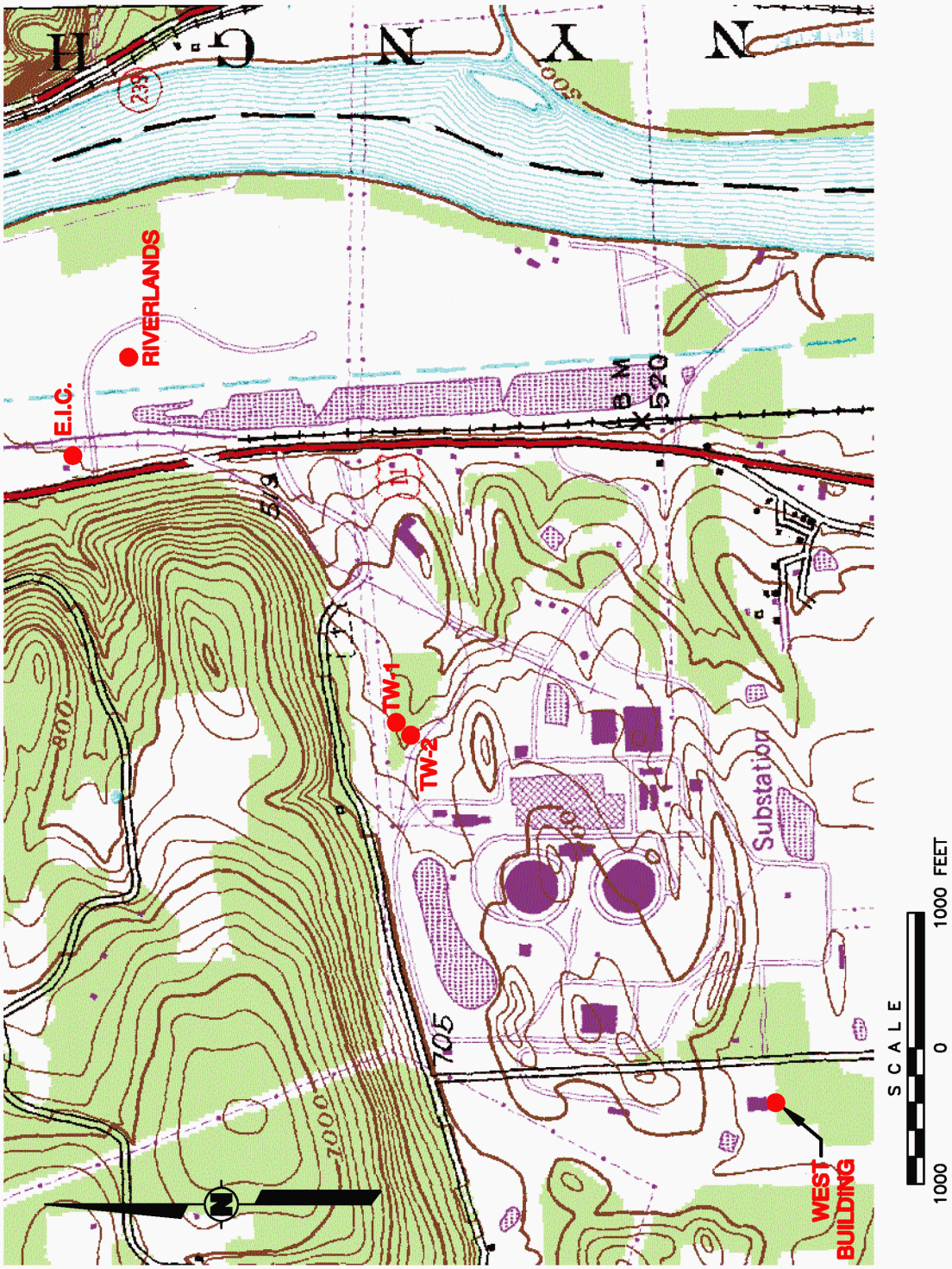

Figure 2.4-76— {Groundwater Production Wells at SSES}

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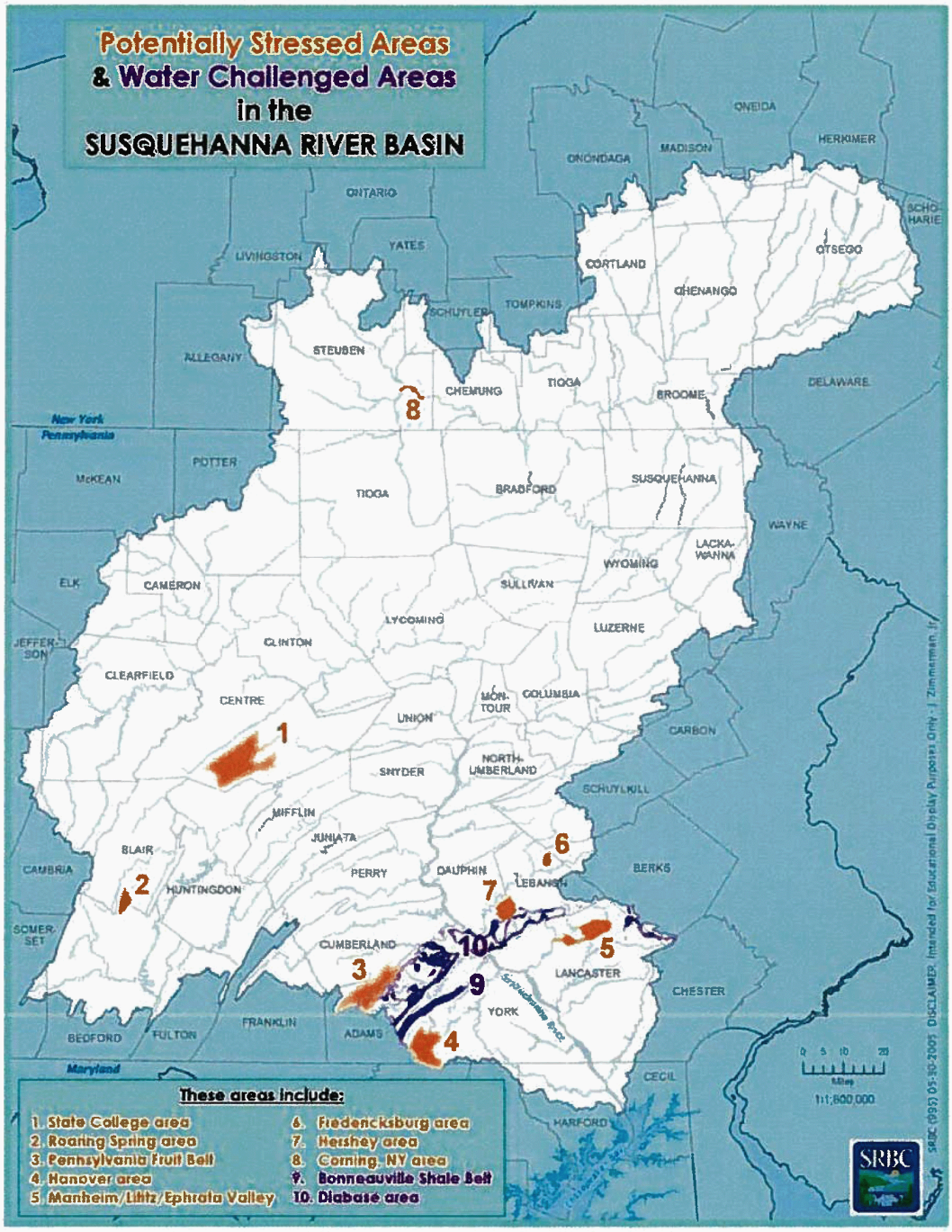
Figure 2.4-77— {Potentially Stressed Areas and Water Challenged Areas in the Susquehanna River Basin}



Reference: SRBC, 2005

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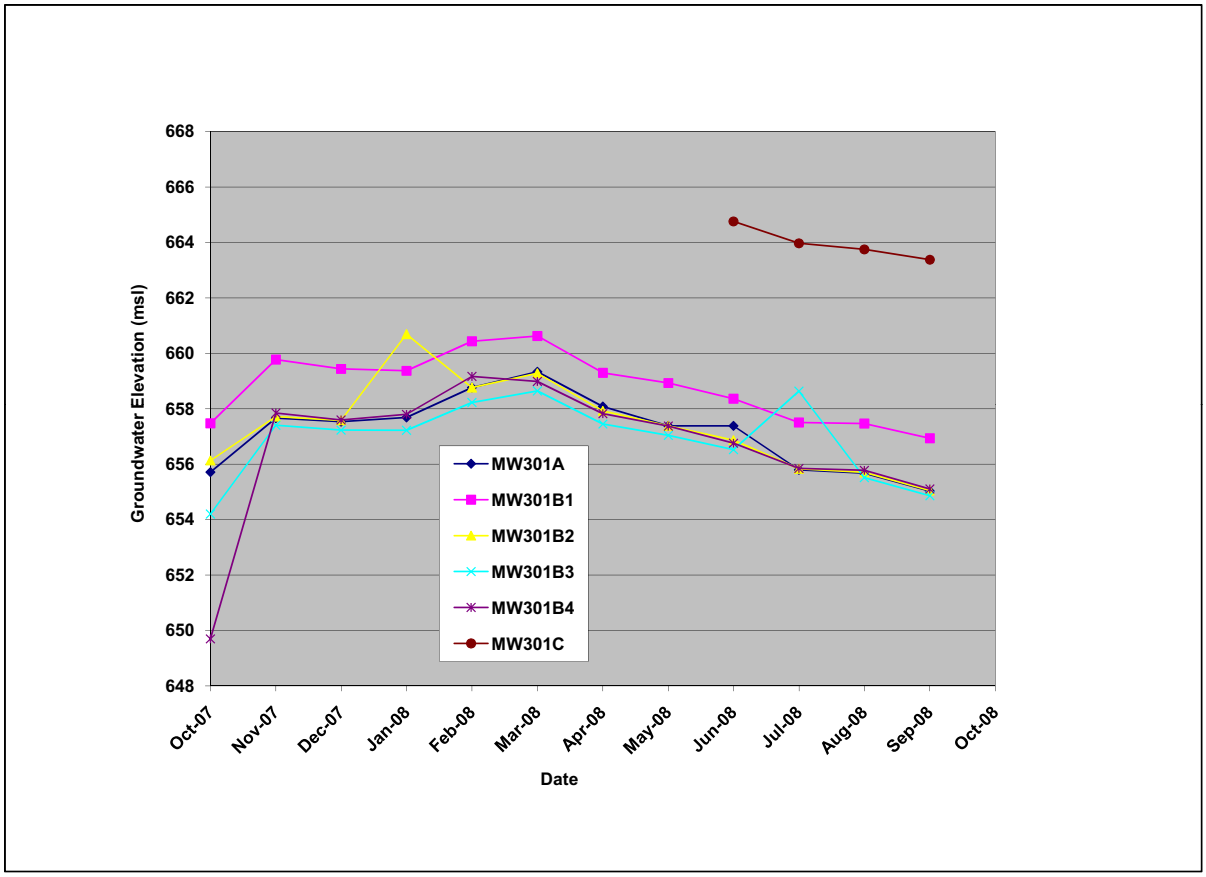
Figure 2.4-78— {Groundwater Elevations versus Time, Well Clusters MW301 and MW302}



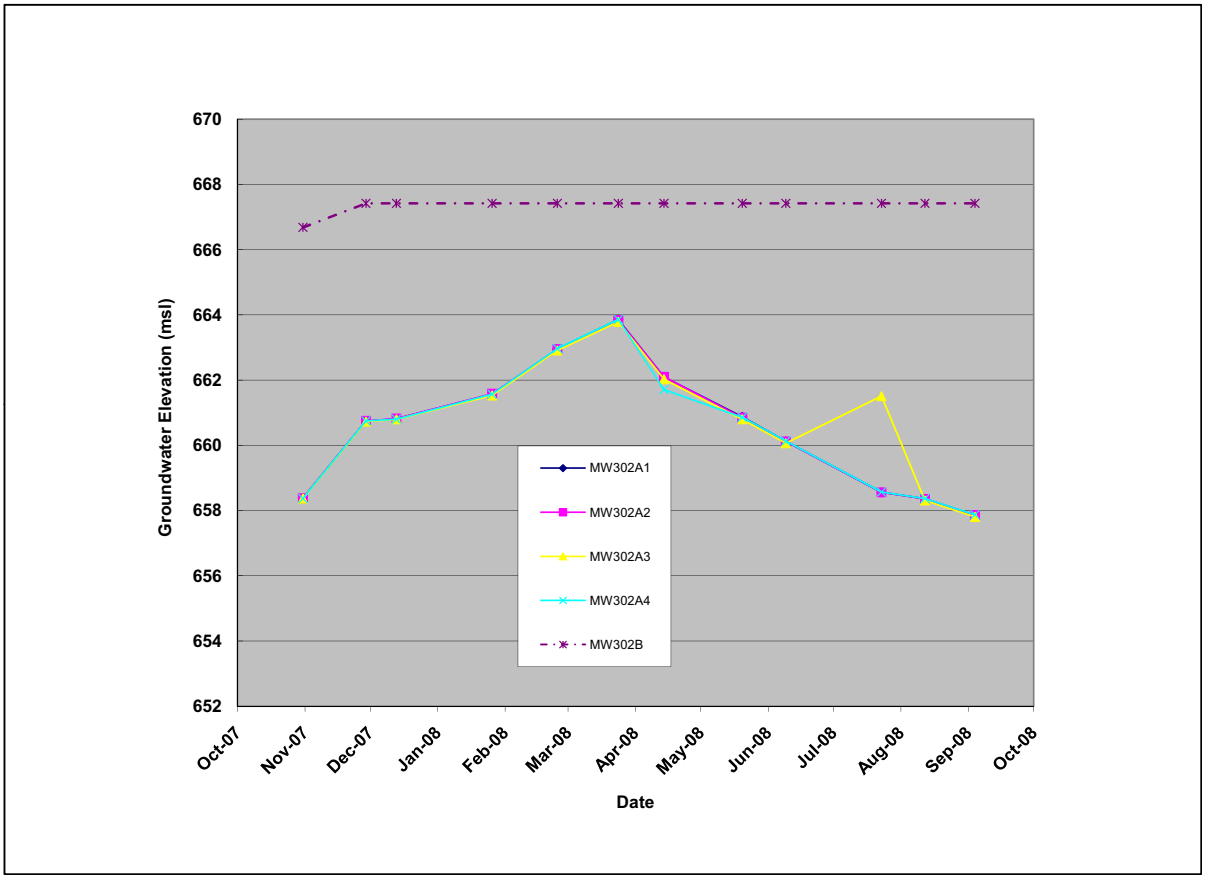


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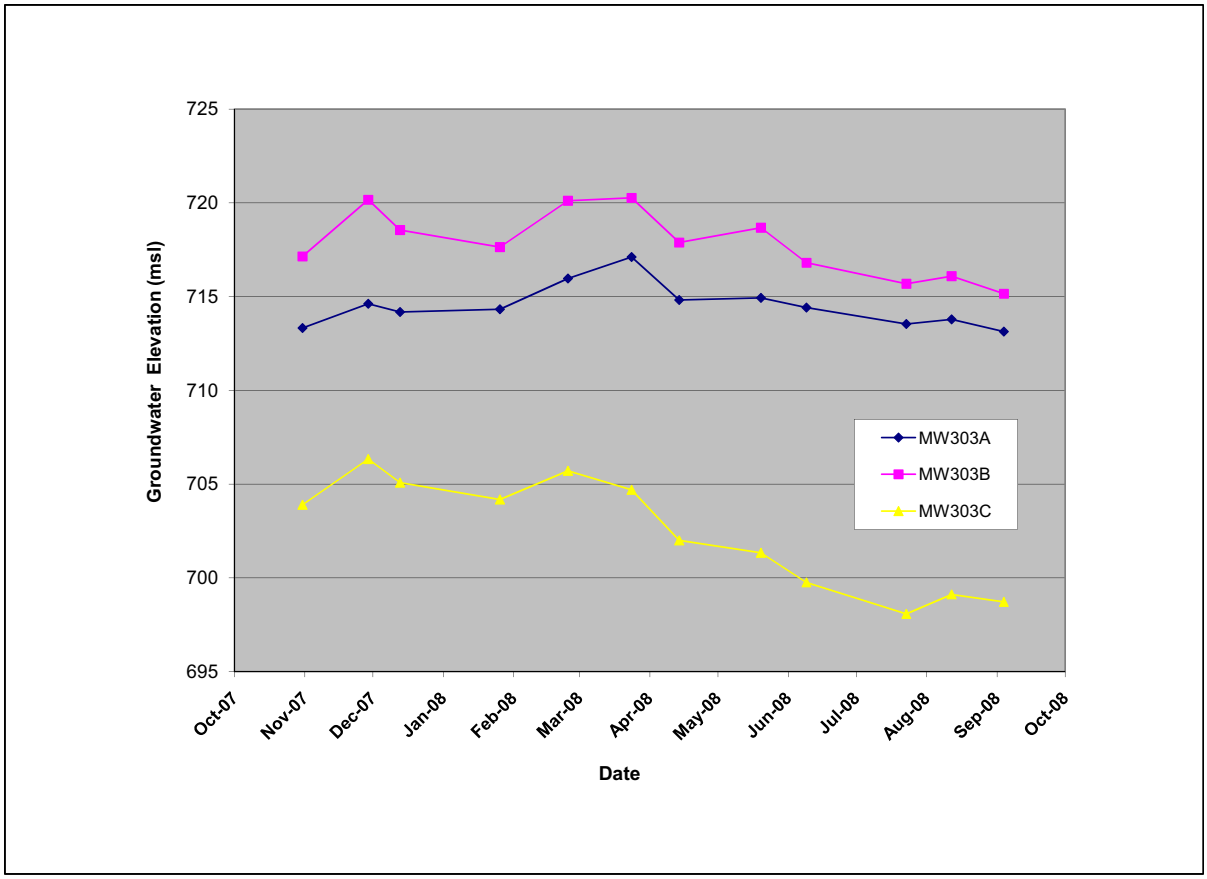
Figure 2.4-79— {Groundwater Elevations versus Time, Well Clusters MW303 and MW304}



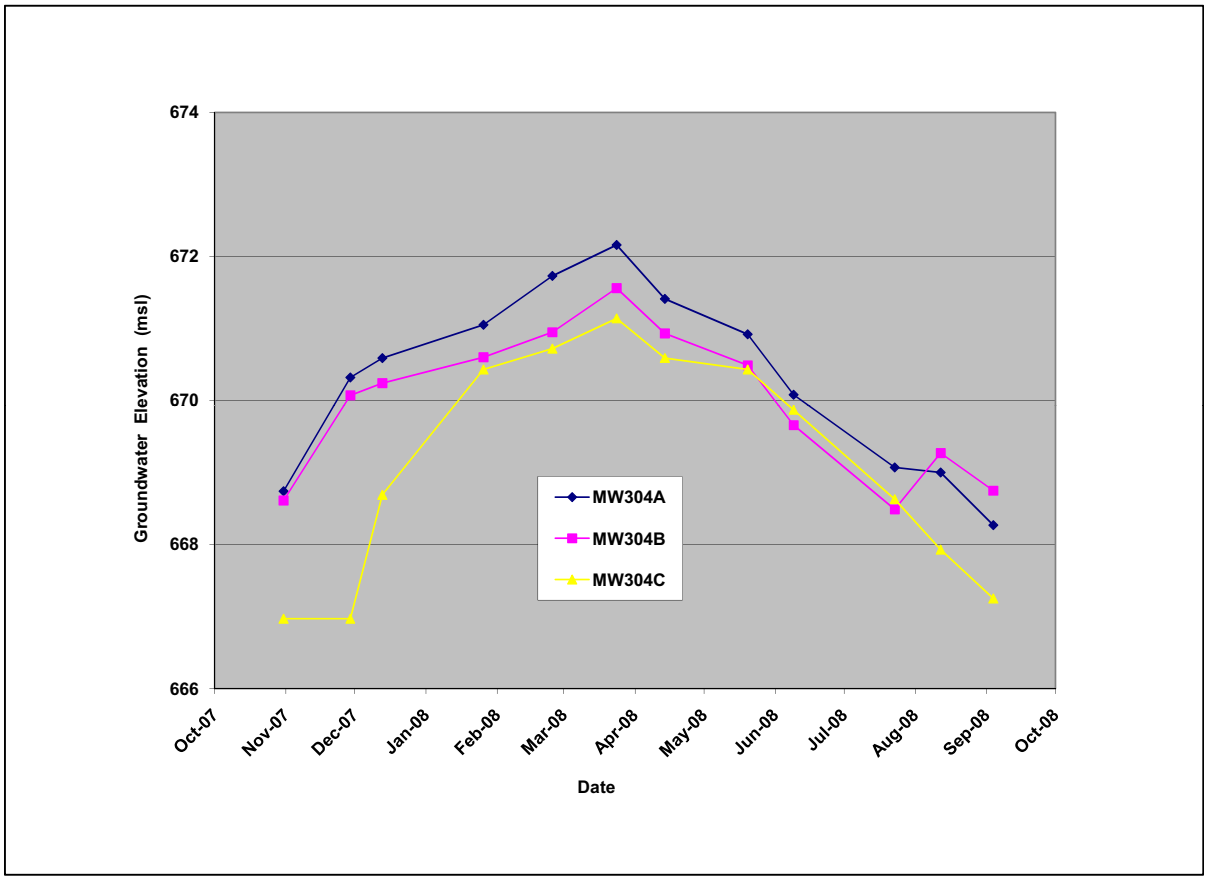


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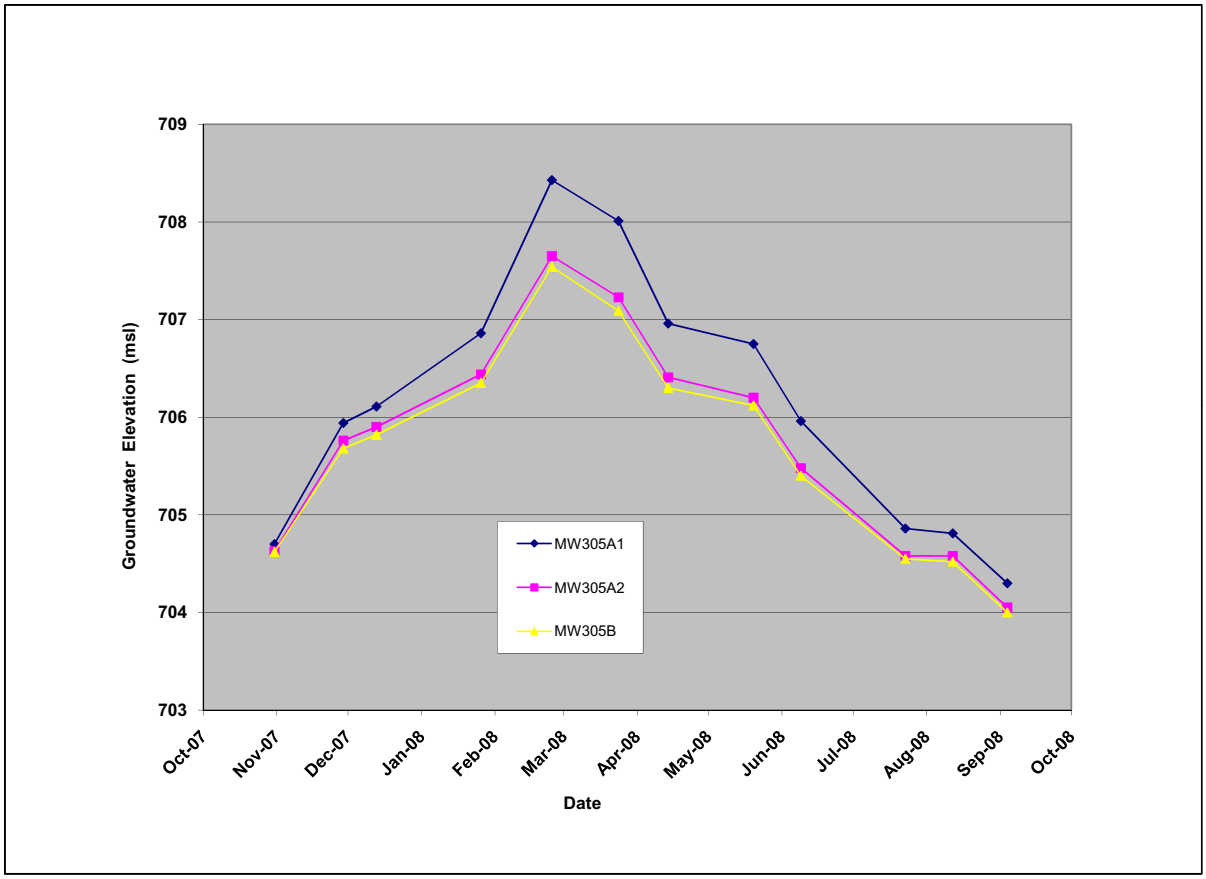
Figure 2.4-80— {Groundwater Elevations versus Time, Well Clusters MW305 and MW306}



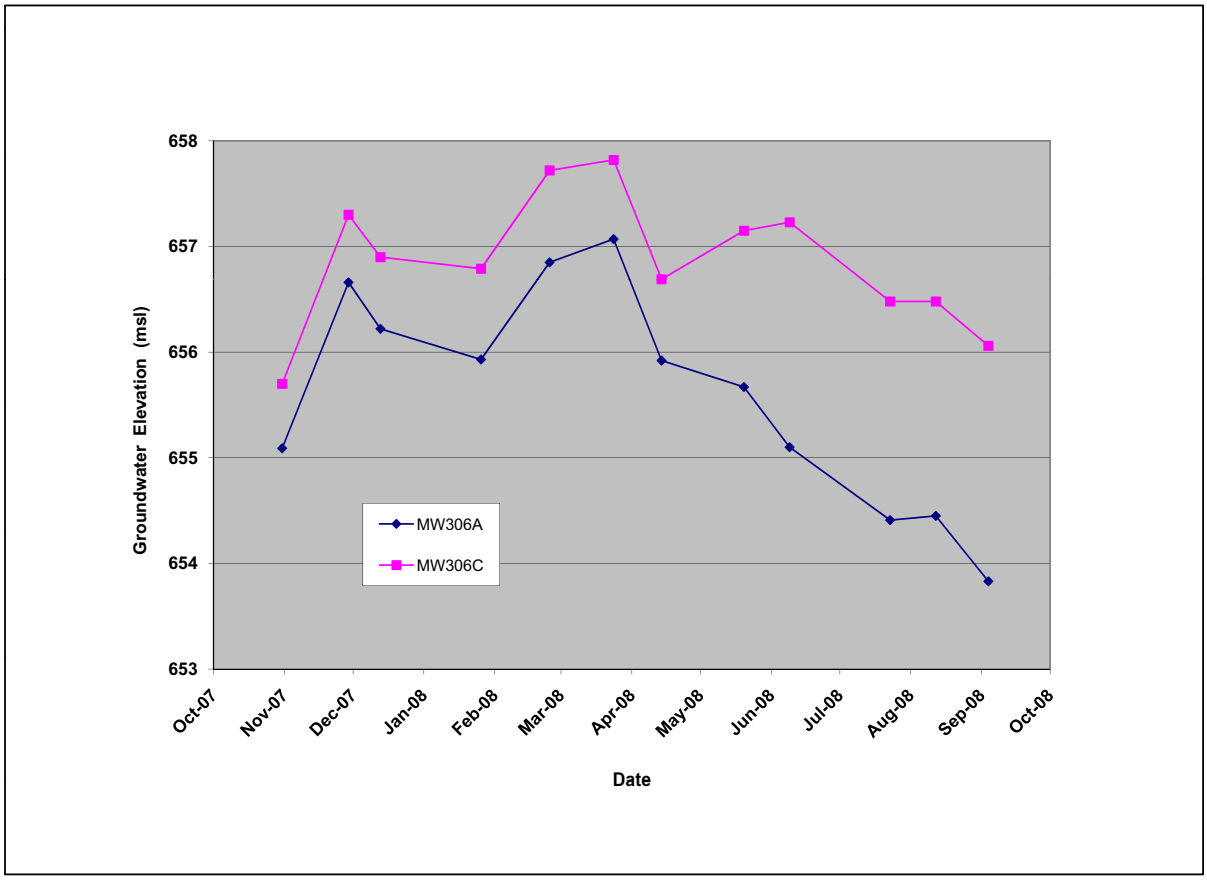


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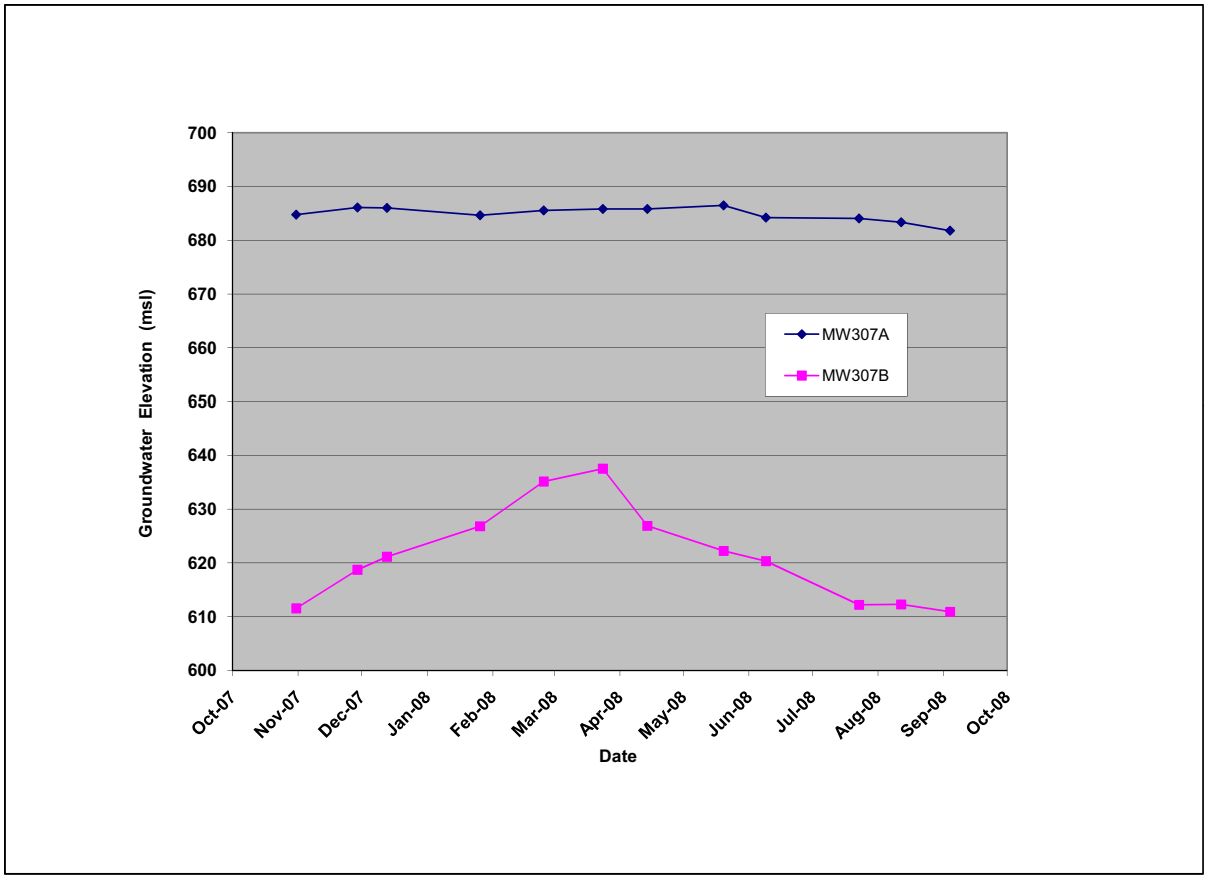
Figure 2.4-81— {Groundwater Elevations versus Time, Well Clusters MW307 and MW308}



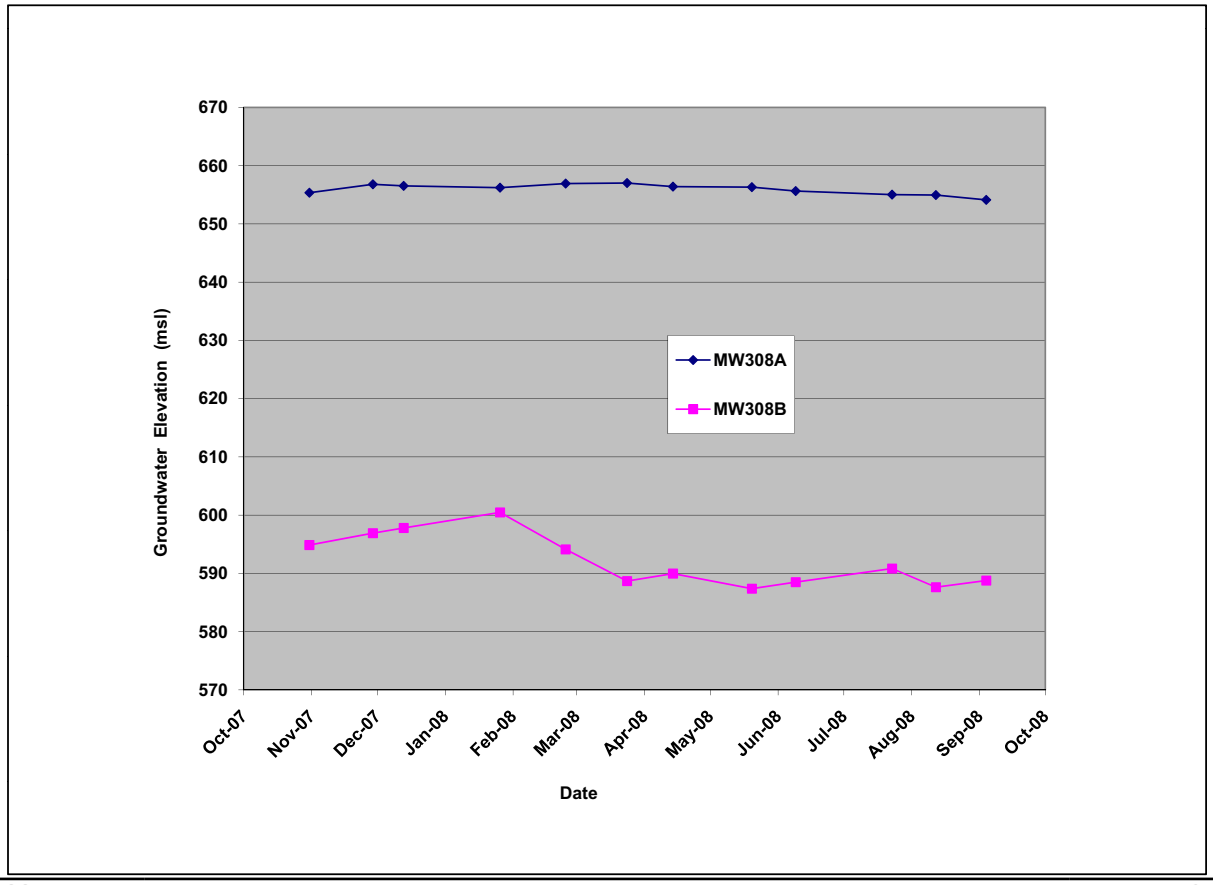


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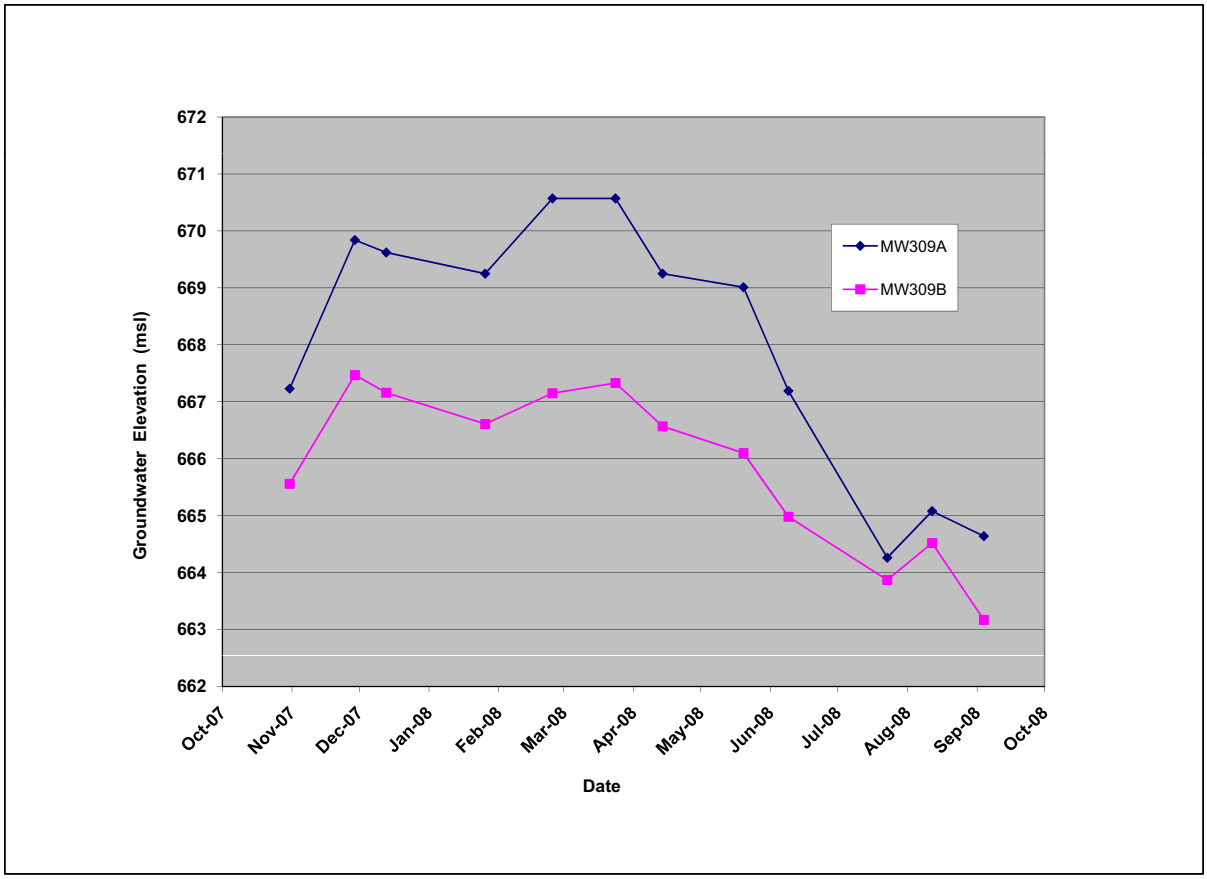
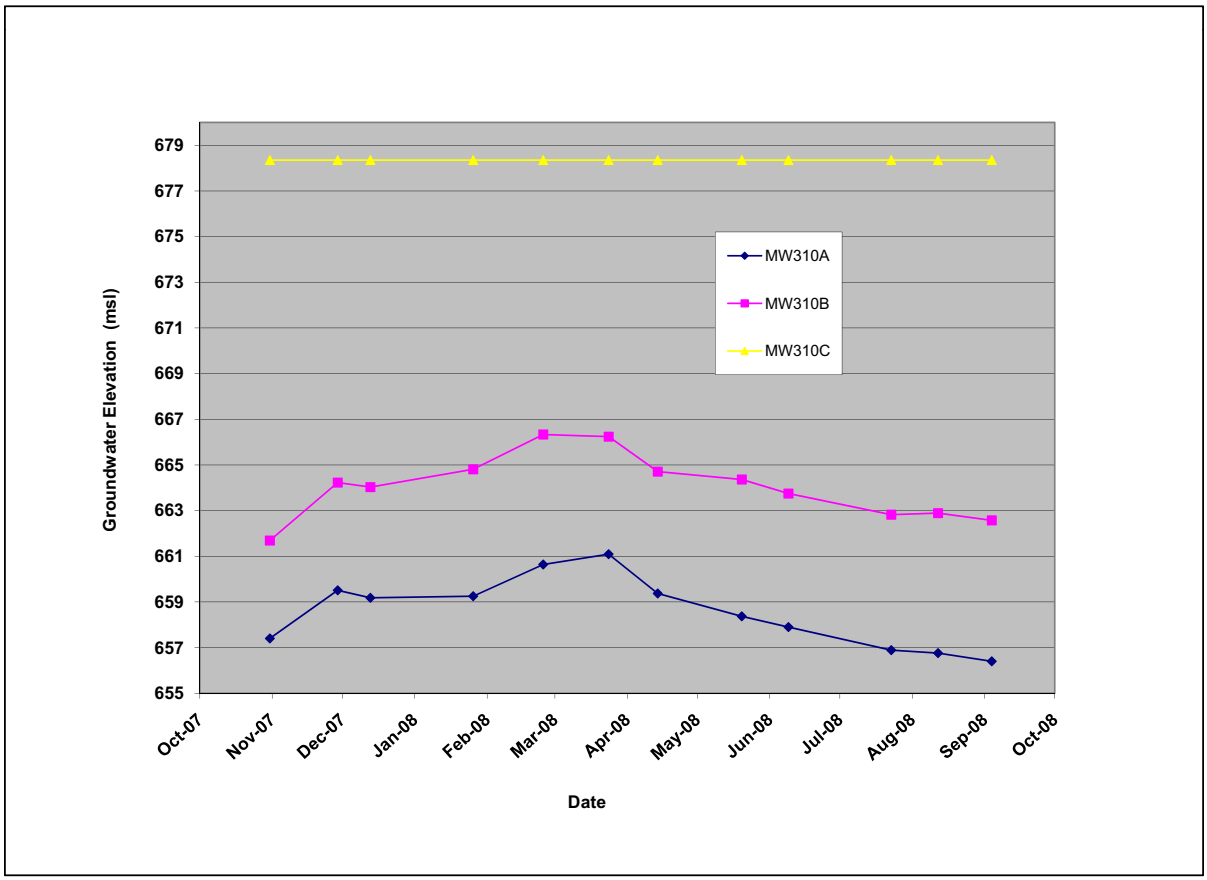
Figure 2.4-82— {Groundwater Elevations versus Time, Well Clusters MW309 and MW310}





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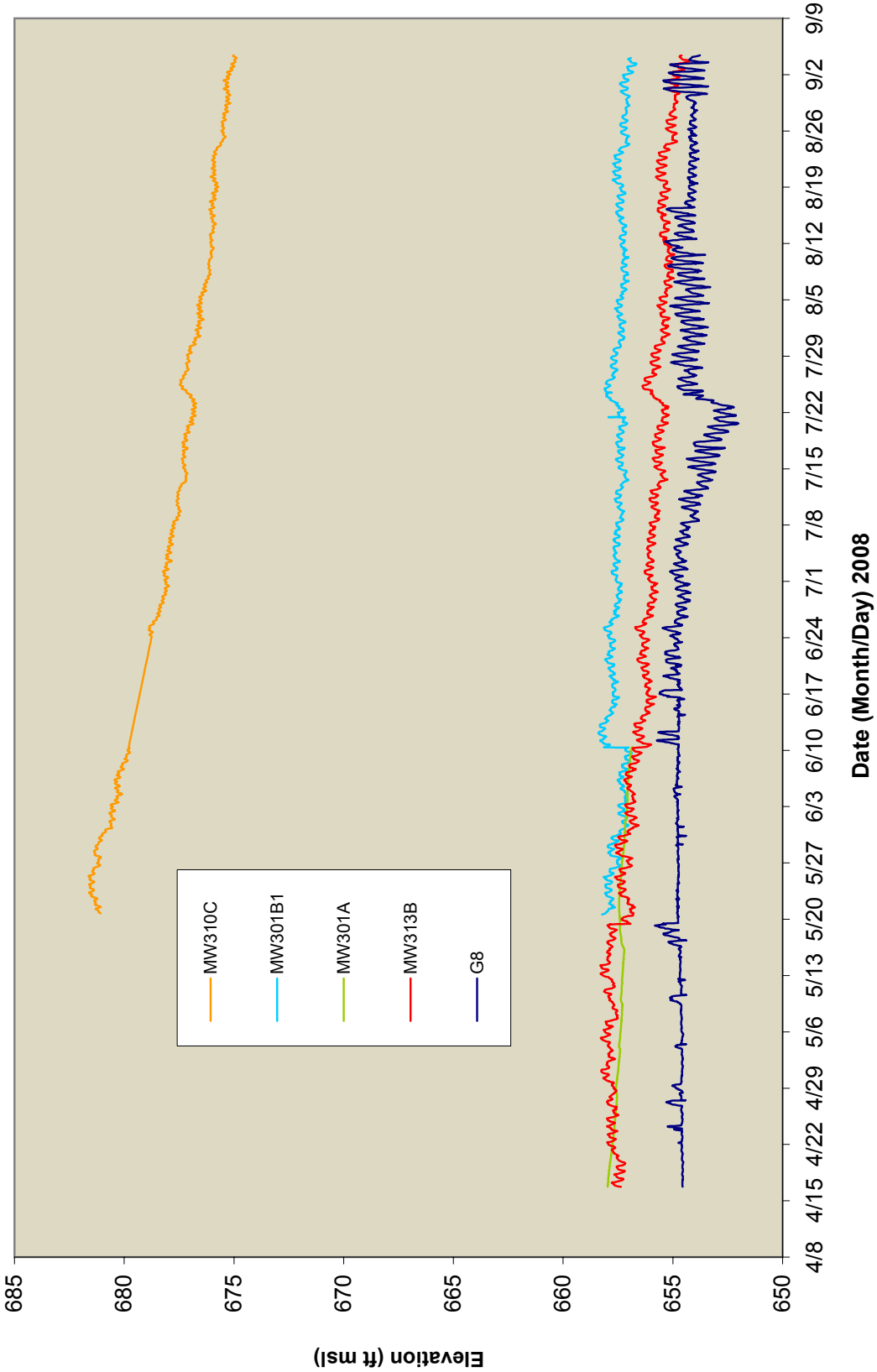

Figure 2.4-83— {Water Level Fluctuations in MW301 Cluster Area Based on Pressure Transducer Data}

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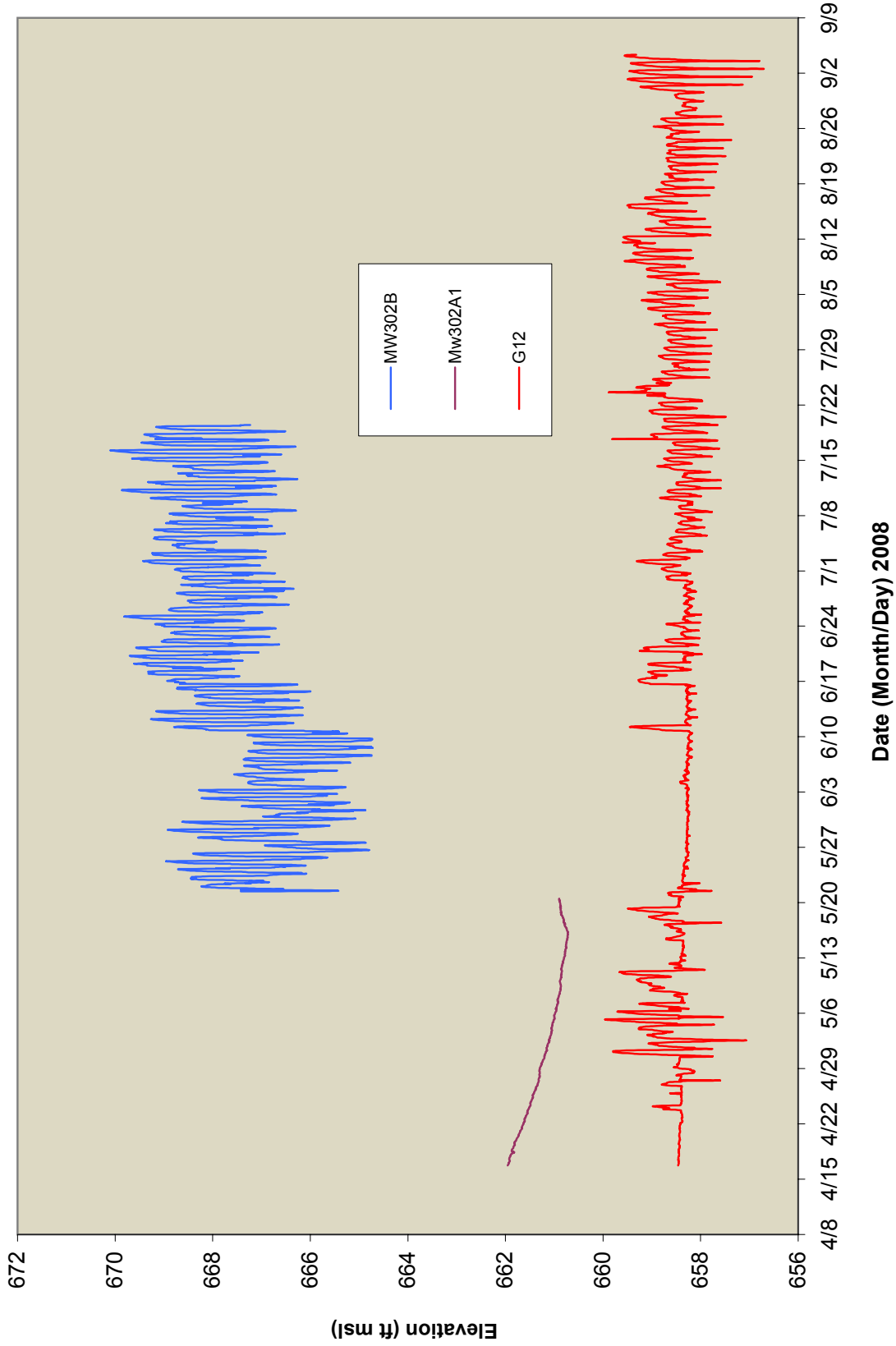

Figure 2.4-84— {Water Level Fluctuations in MW302 Cluster Area Based on Pressure Transducer Data}

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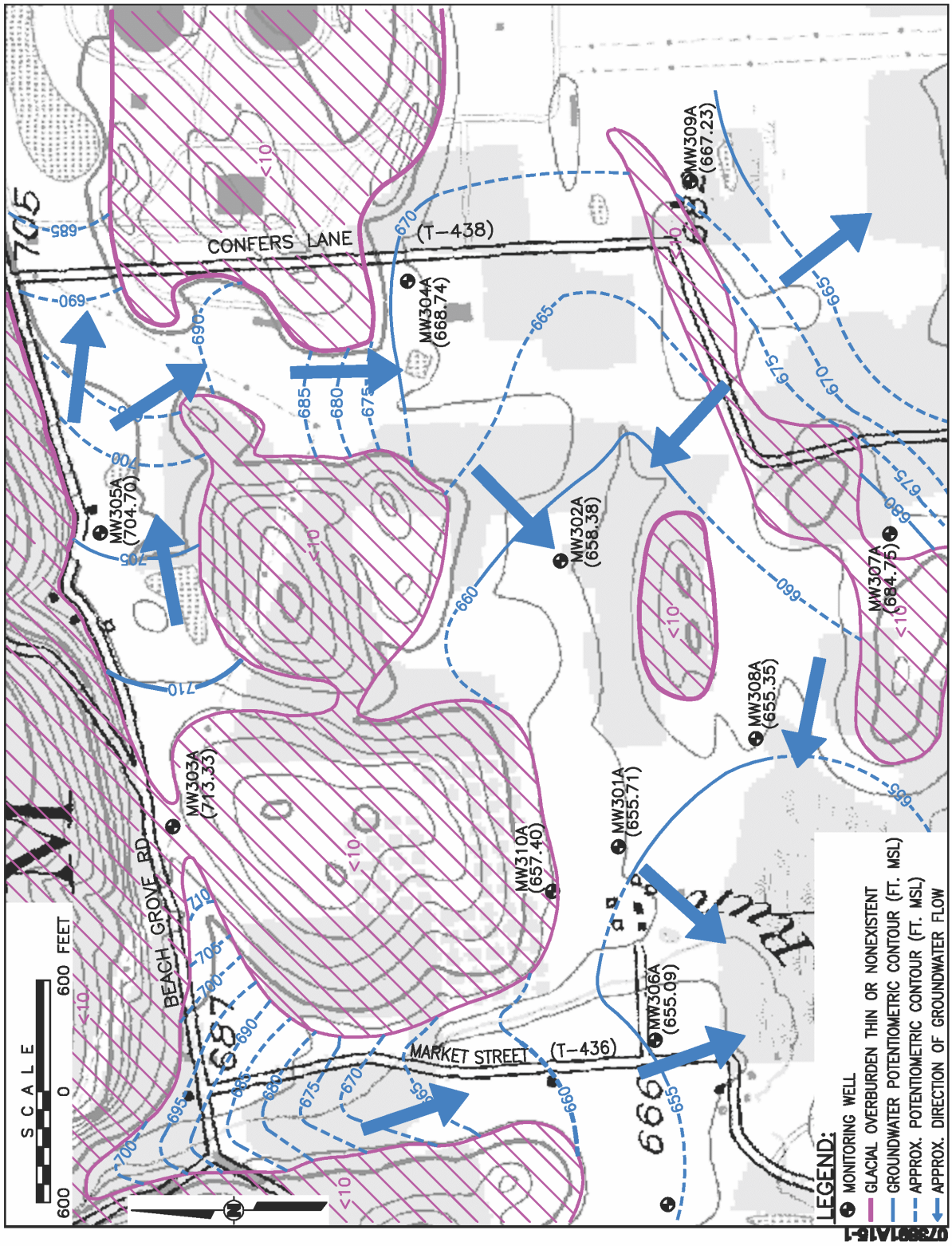

Figure 2.4-85— {Potentiometric Surface Map of Glacial Overburden Aquifer, October 2007}

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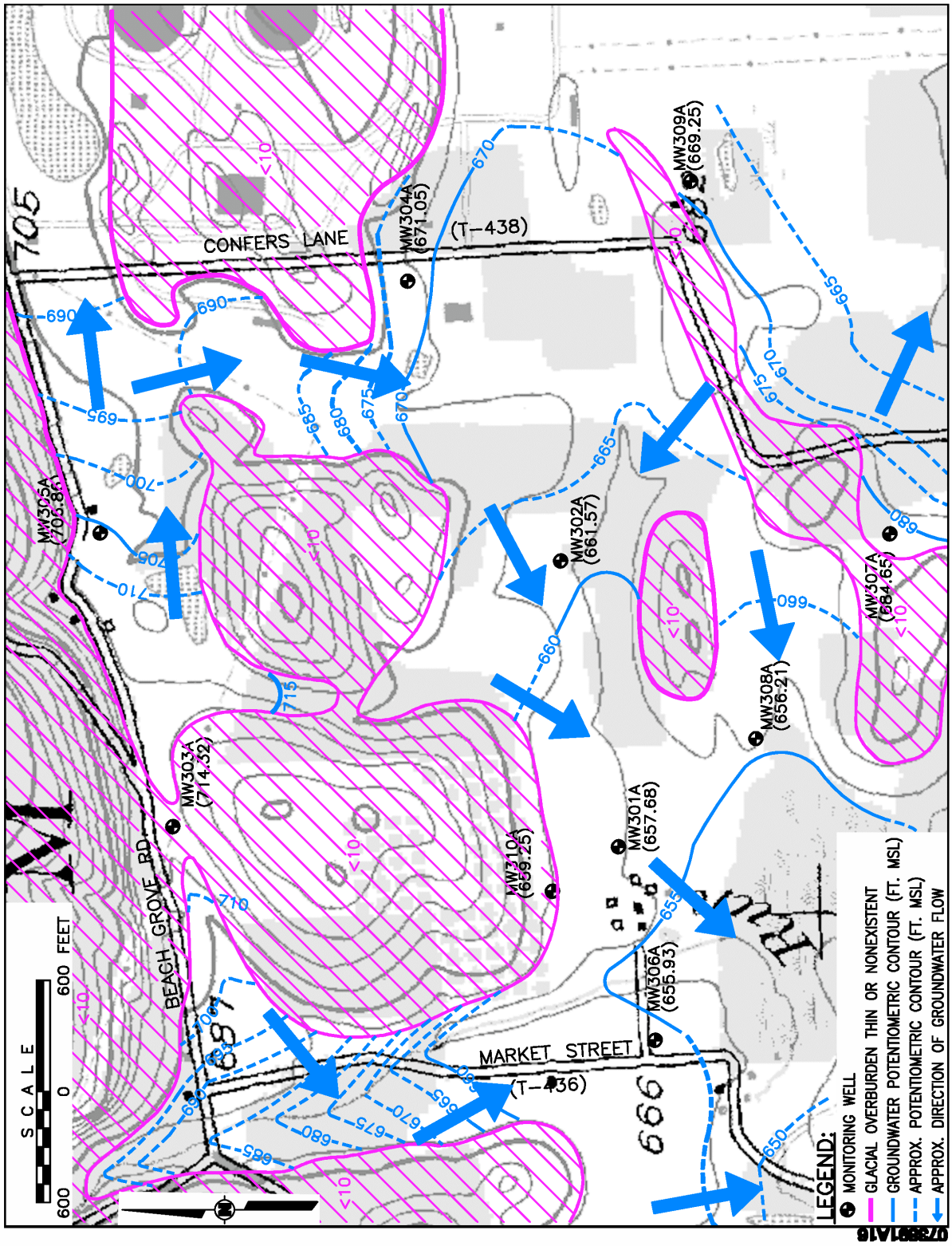

Figure 2.4-86— {Potentiometric Surface Map of Glacial Overburden Aquifer, January 2008}

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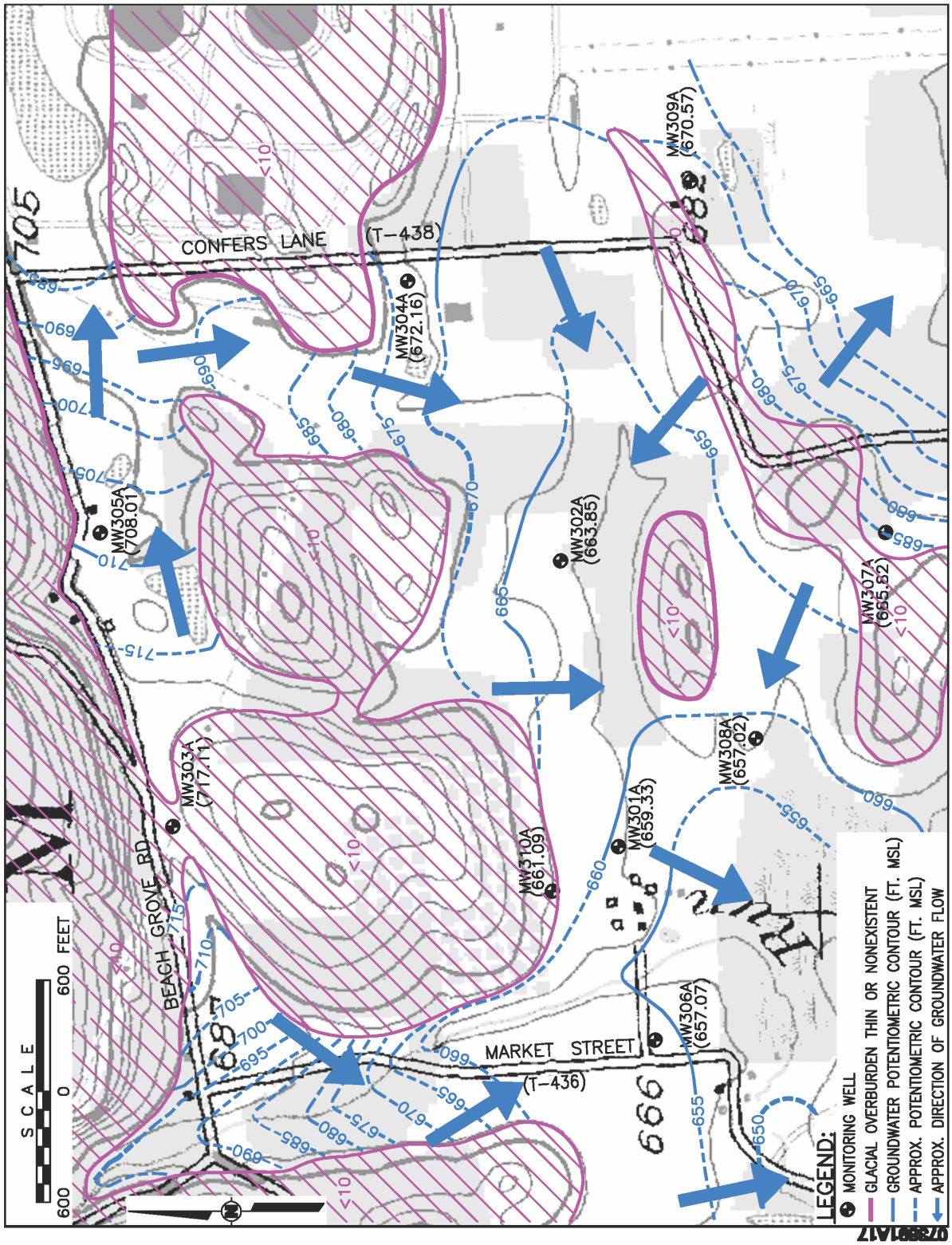
Figure 2.4-87— {Potentiometric Surface Map of Glacial Overburden Aquifer, March 2008}



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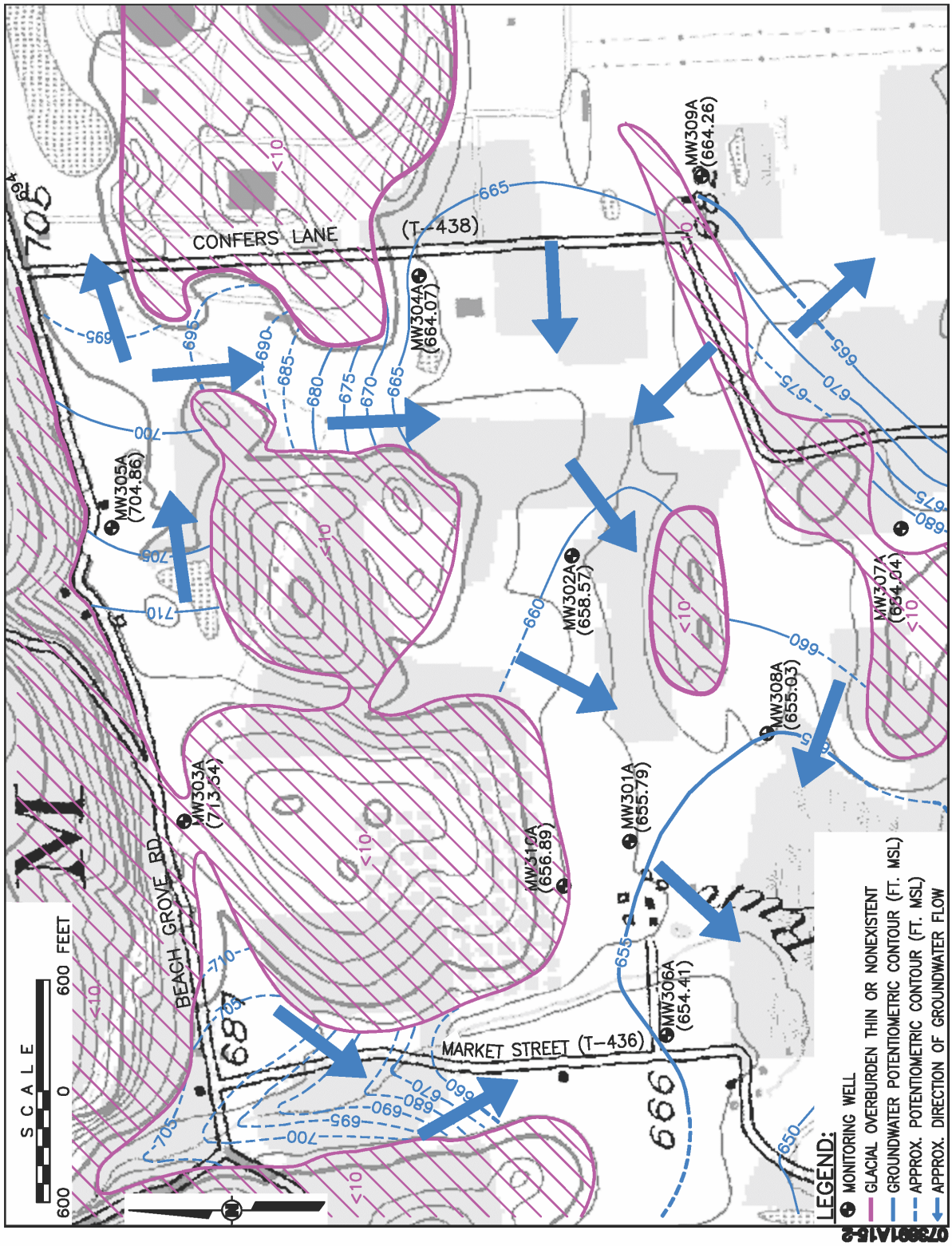

Figure 2.4-88— {Potentiometric Surface Map of Glacial Overburden Aquifer, July 2008}

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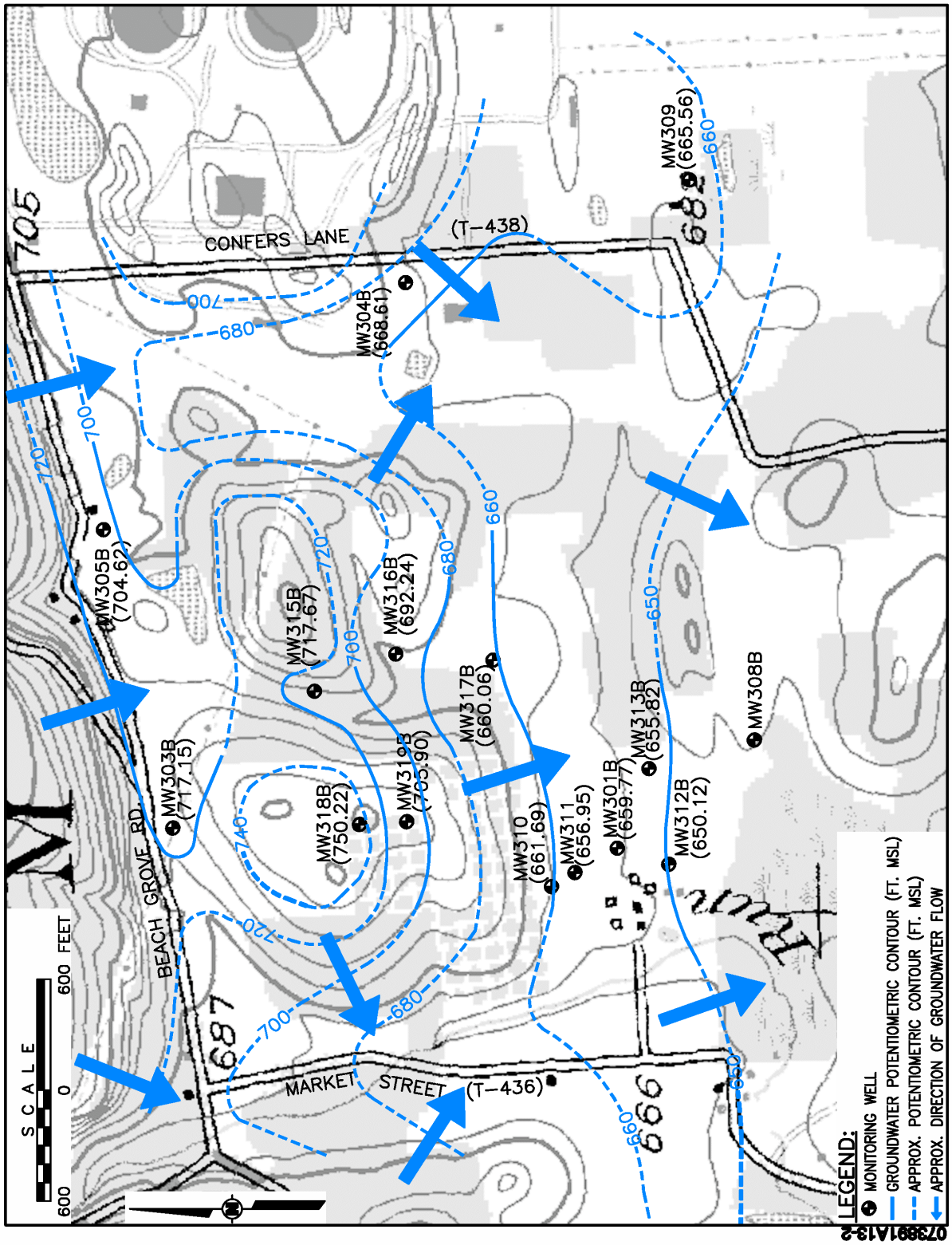

Figure 2.4-89— {Potentiometric Surface Map of Shallow Bedrock Aquifer, October 2007}

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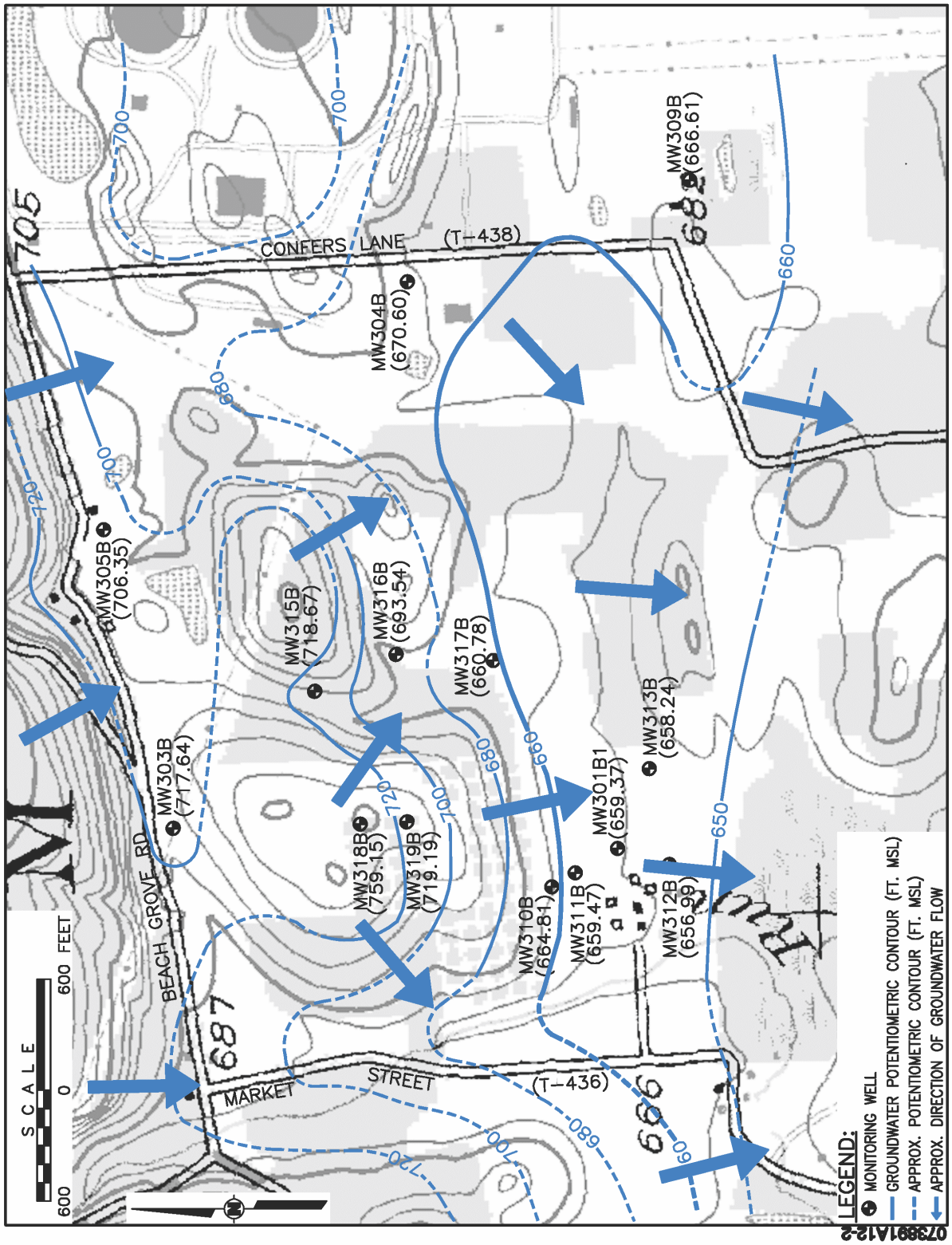

Figure 2.4-90— {Potentiometric Surface Map of Shallow Bedrock Aquifer, January 2008}

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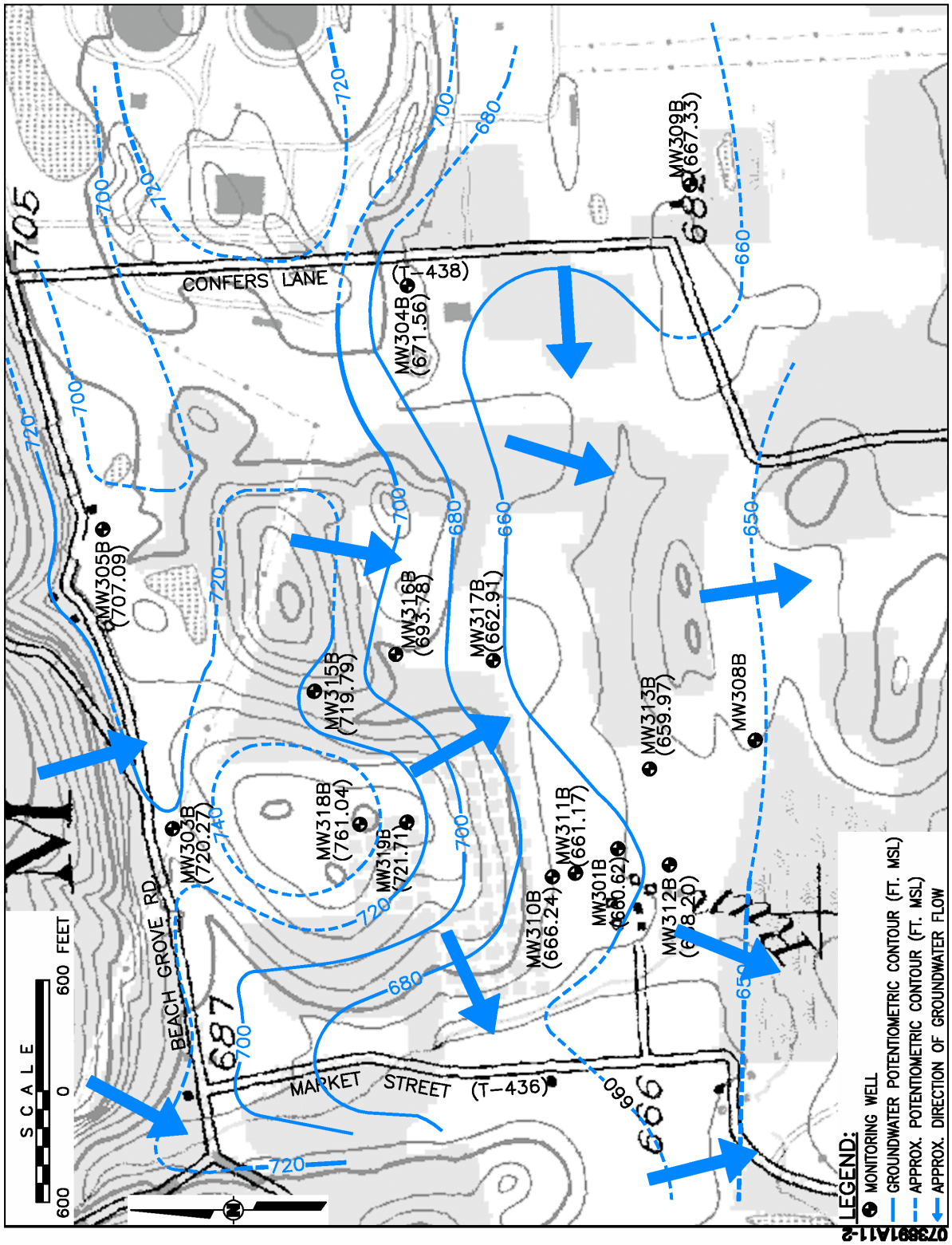

Figure 2.4-91— {Potentiometric Surface Map of Shallow Bedrock Aquifer, March 2008}

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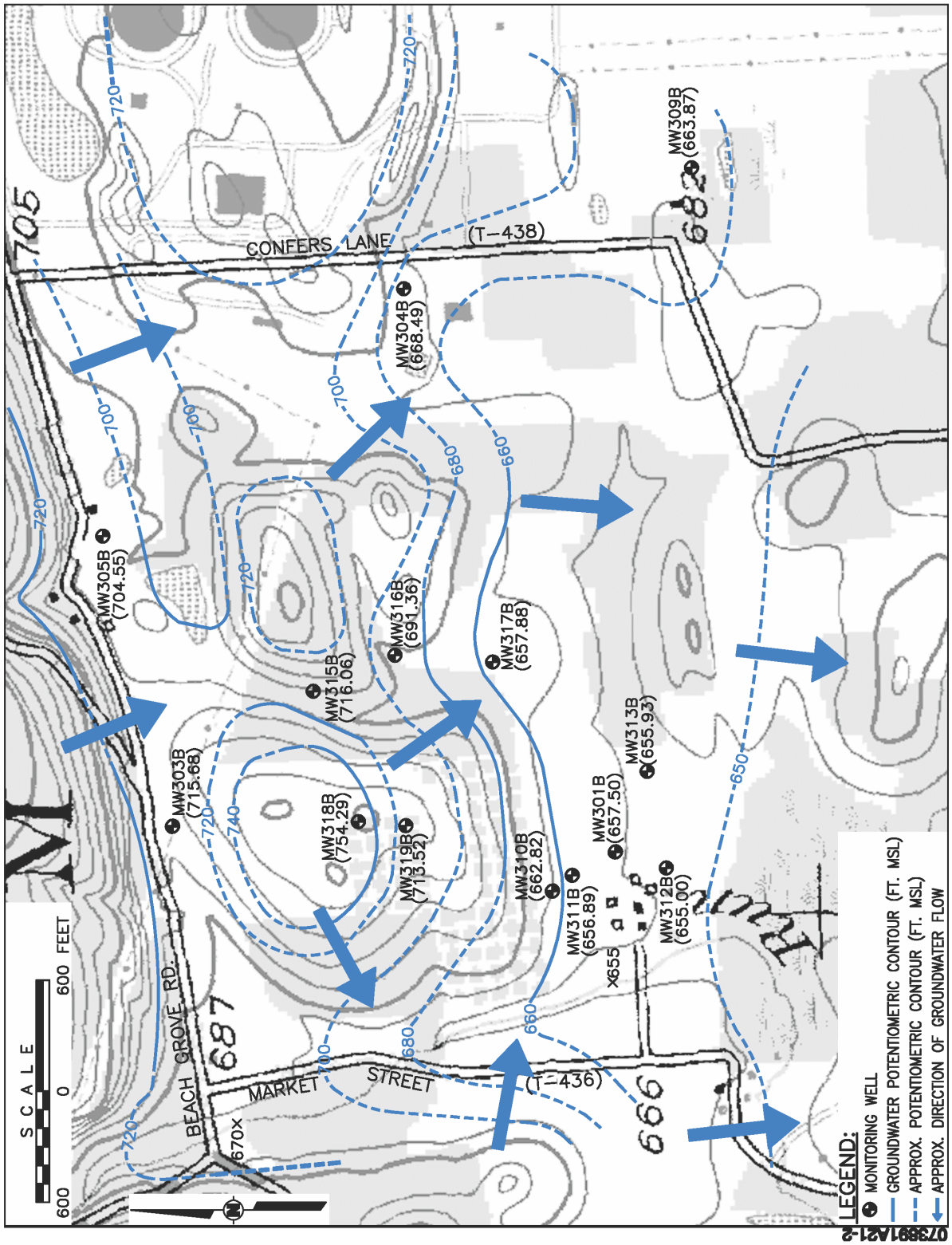
Figure 2.4-92— {Potentiometric Surface Map of Shallow Bedrock Aquifer, July 2008}



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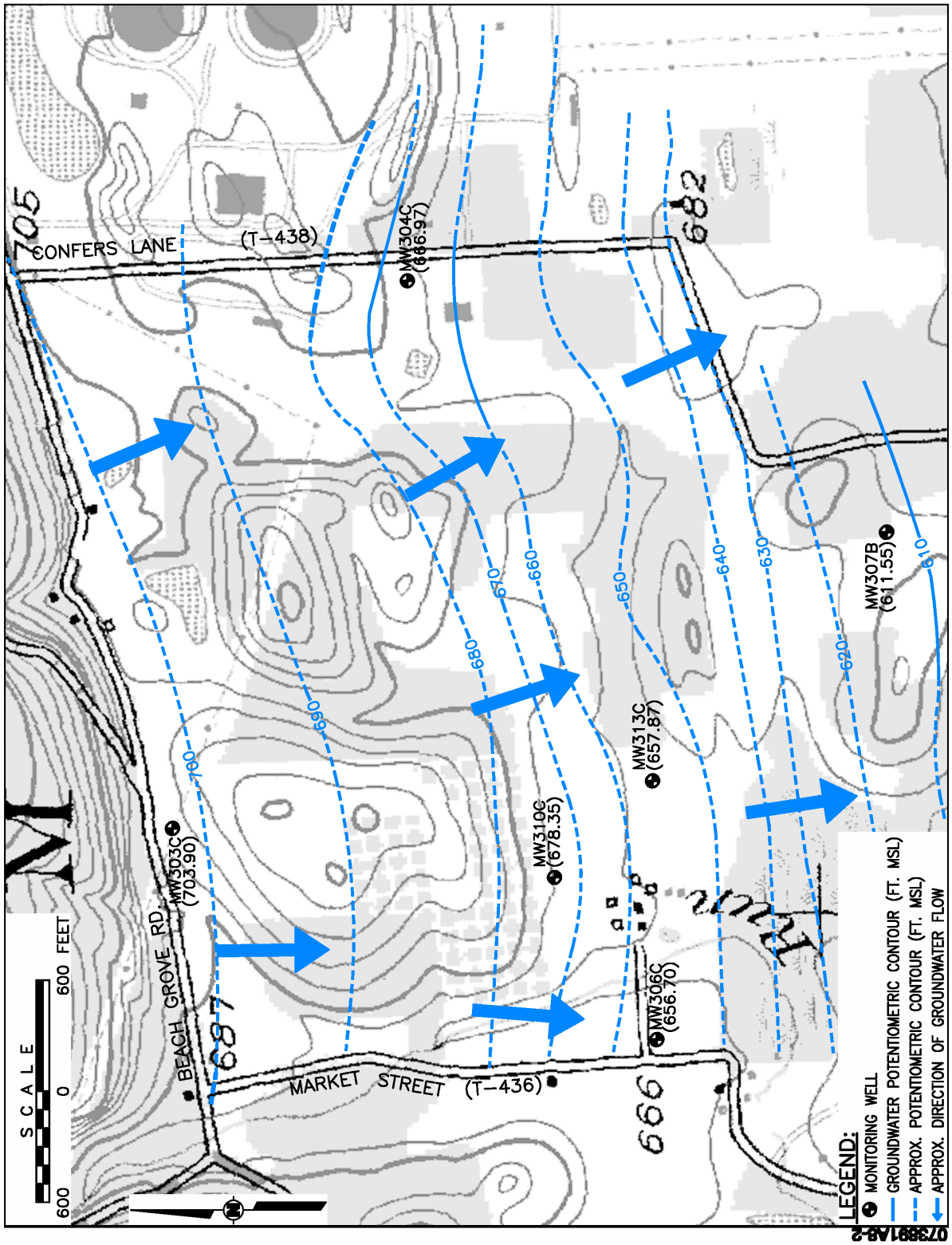

Figure 2.4-93— {Potentiometric Map of Deep Bedrock Aquifer, October 2007}

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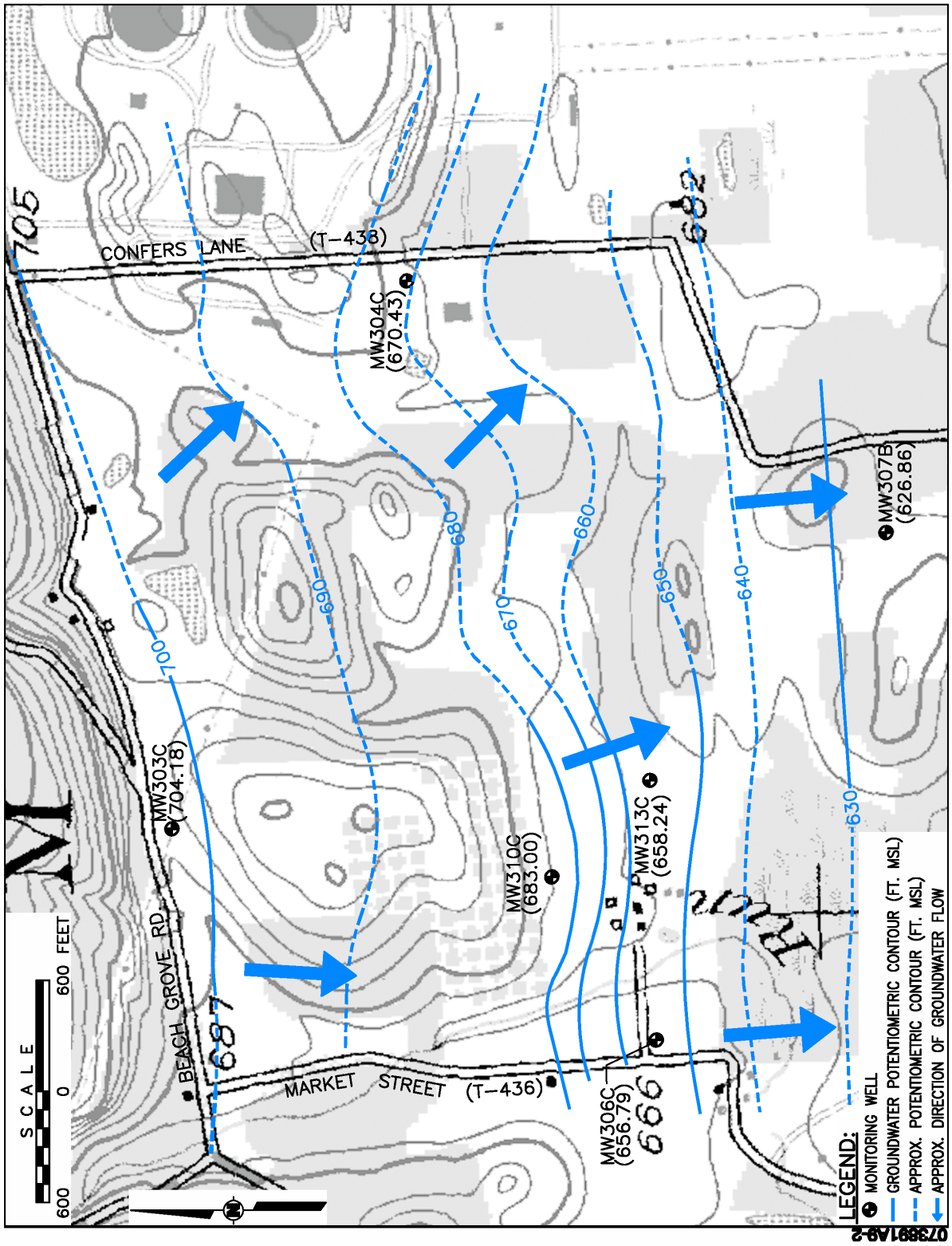

Figure 2.4-94— {Potentiometric Map of Deep Bedrock Aquifer, January 2008}

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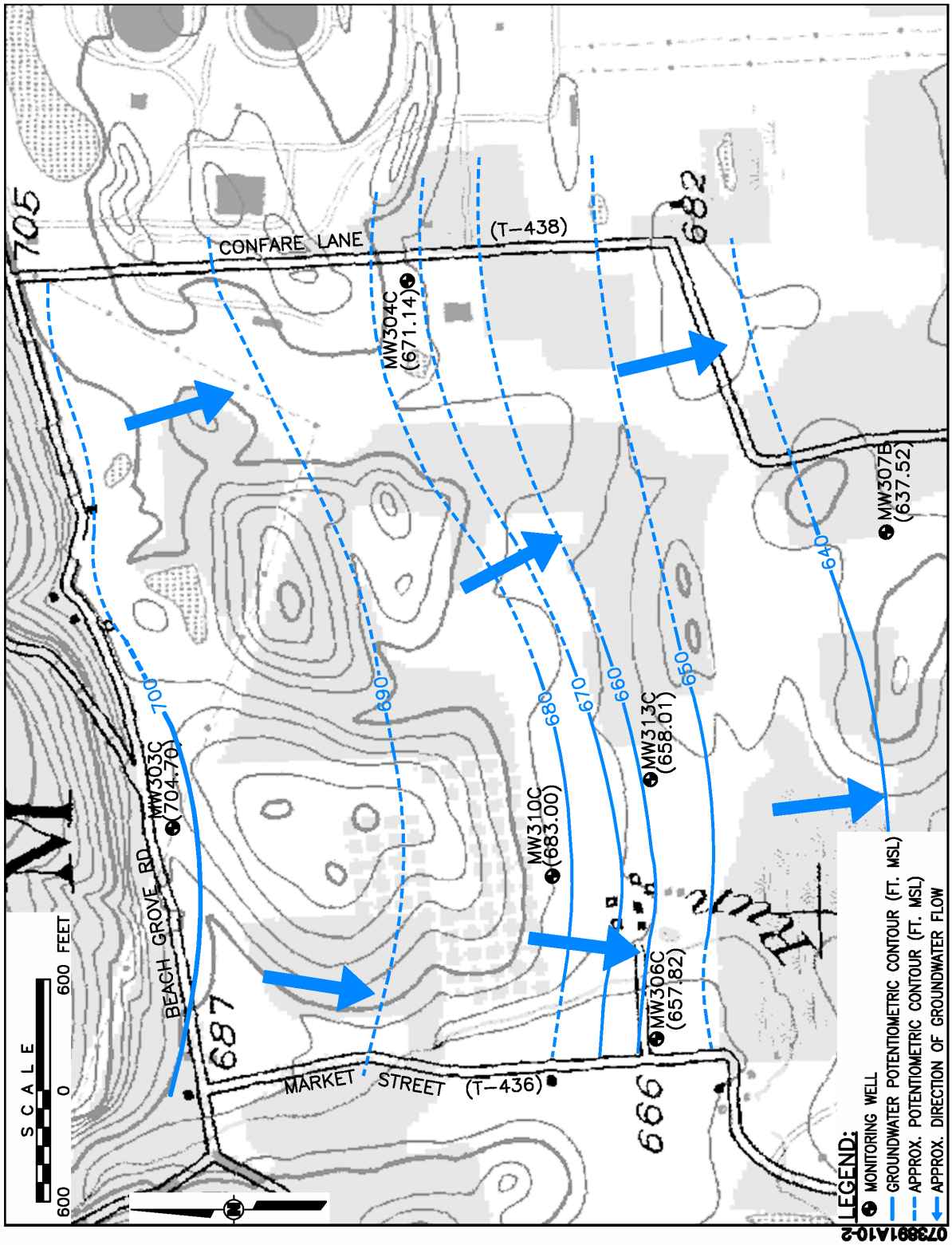

Figure 2.4-95— {Potentiometric Map of Deep Bedrock Aquifer, March 2008}

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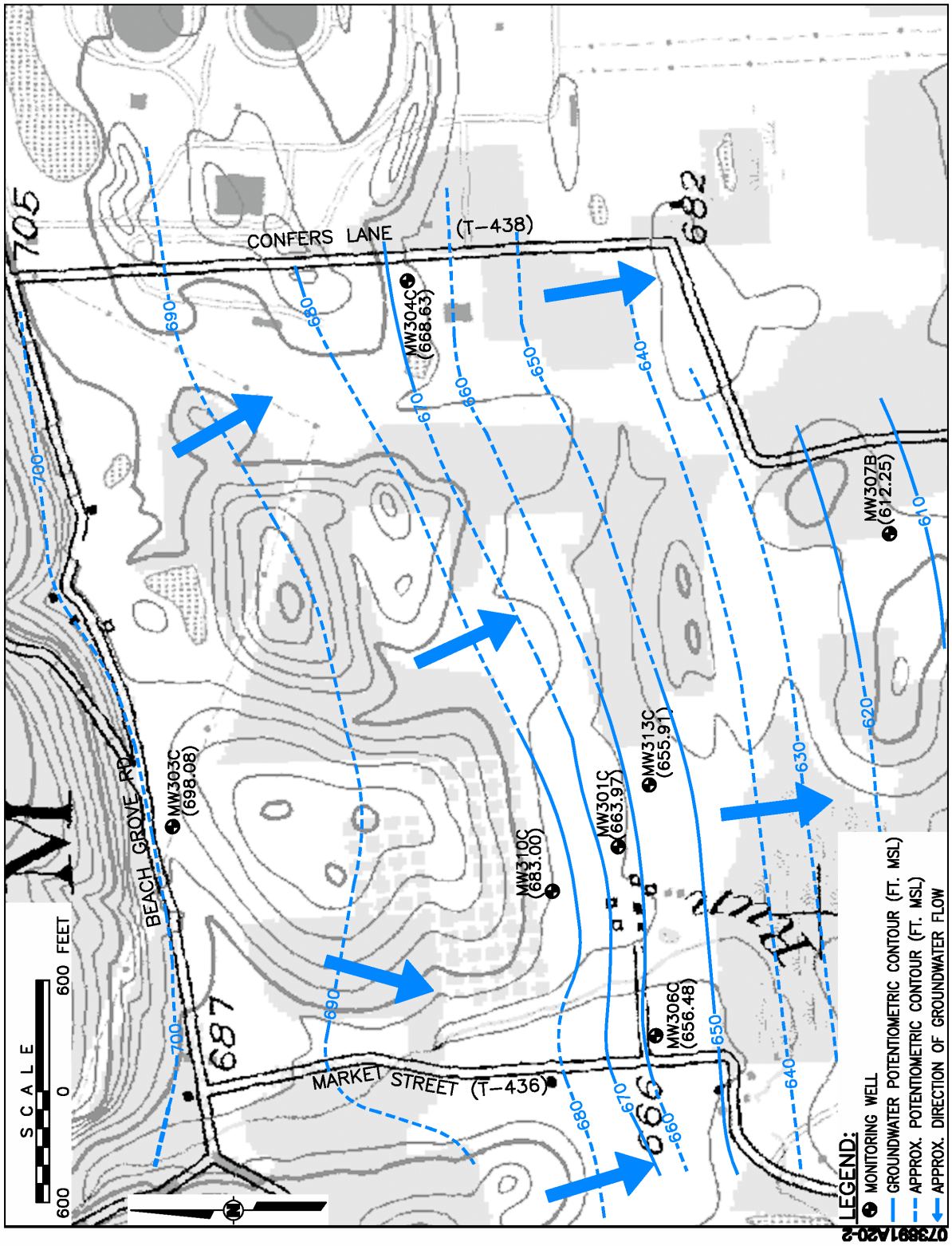

Figure 2.4-96— {Potentiometric Map of Deep Bedrock Aquifer, July 2008}

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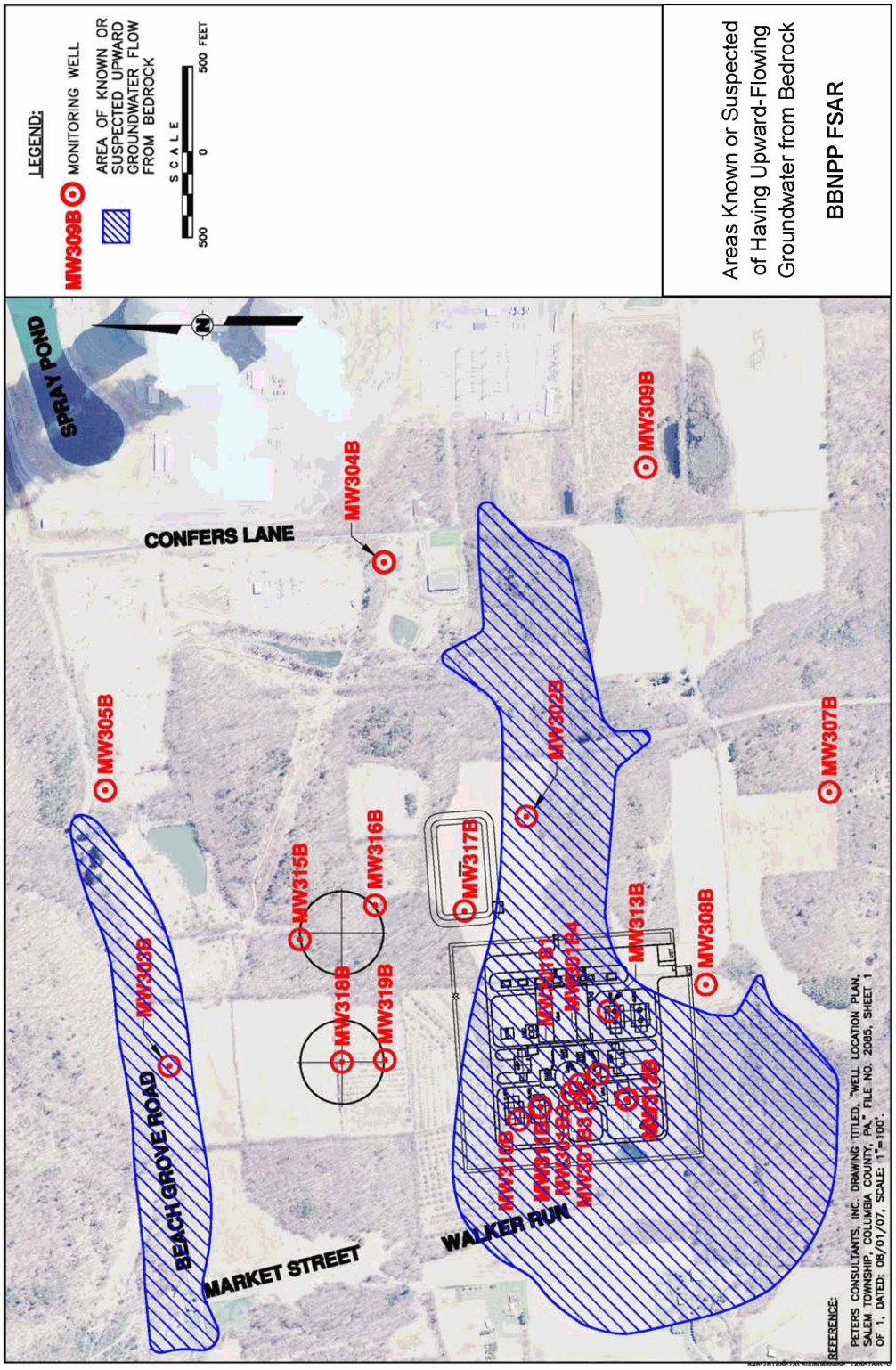
Figure 2.4-97— {Areas Known or Suspected of Having Upward-Flowing Groundwater from Bedrock}



Areas Known or Suspected of Having Upward-Flowing Groundwater from Bedrock

BBNPP FSAR

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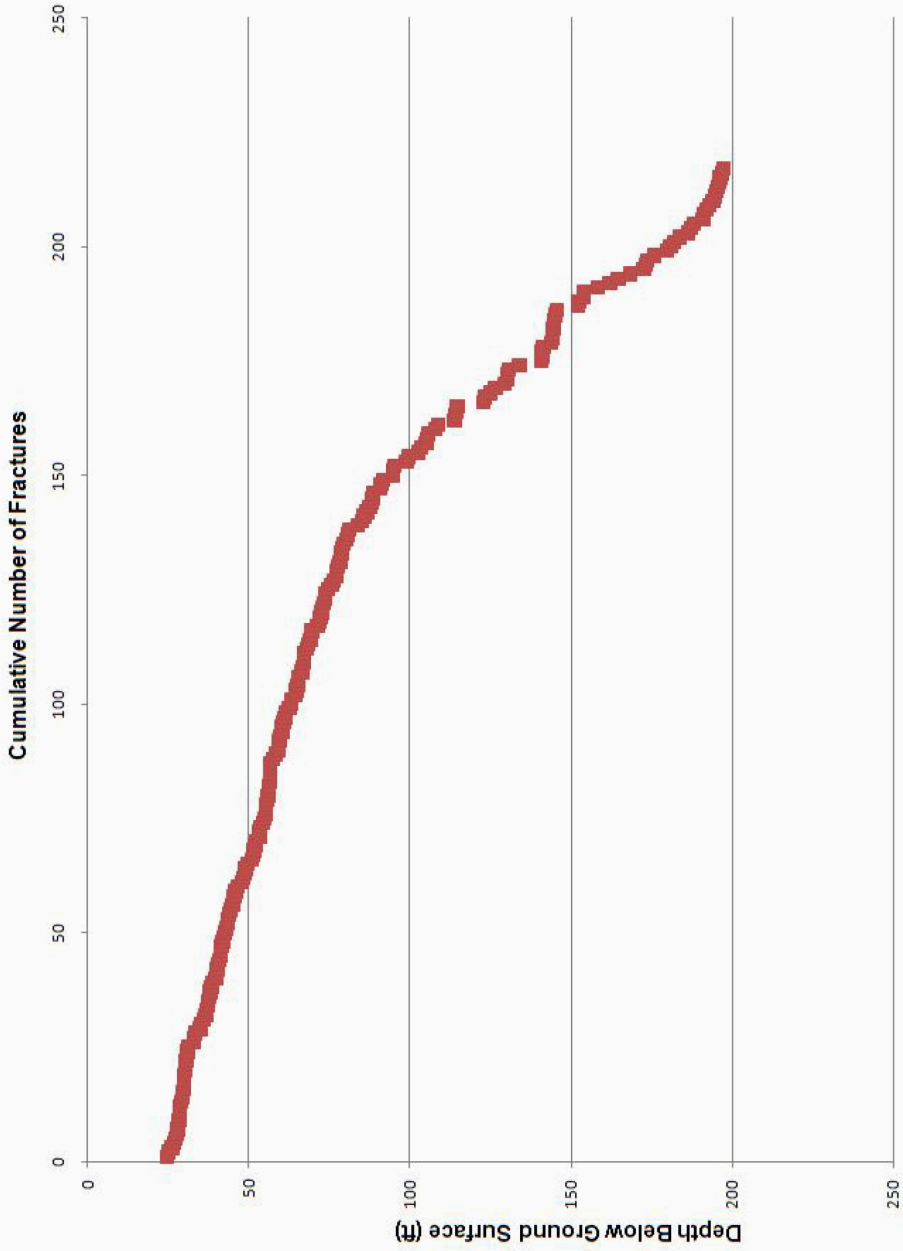

Figure 2.4-98— {Vertical Distribution of Fractures in MW301C Between 45 and 345 Feet Below Ground Surface}

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Figure 2.4-99— {Distribution of Fracture Dip Directions in Monitoring Well MW301C}

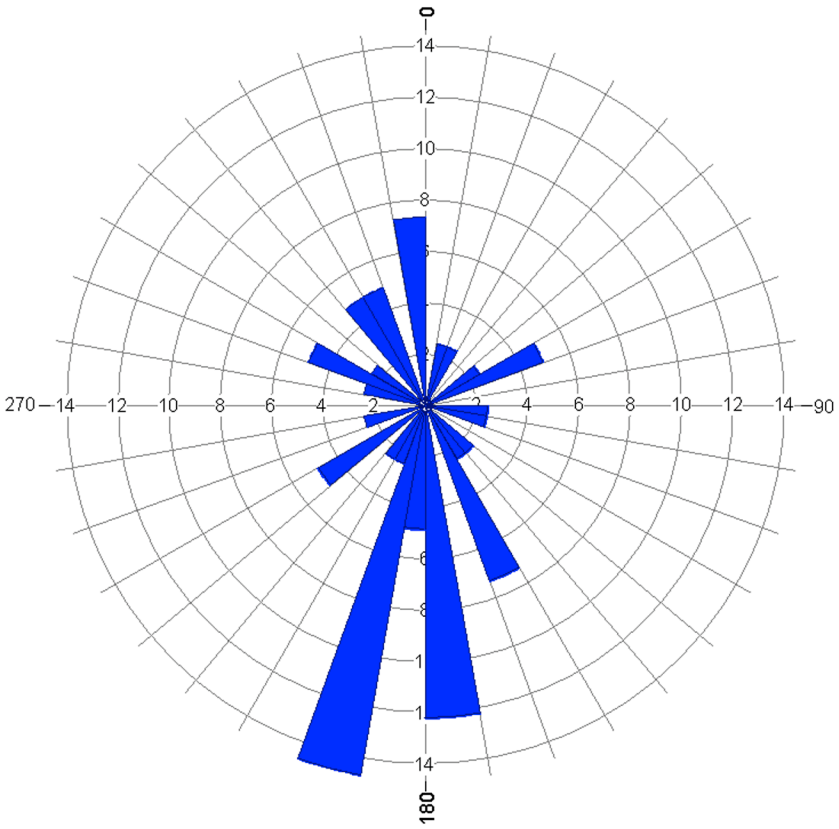

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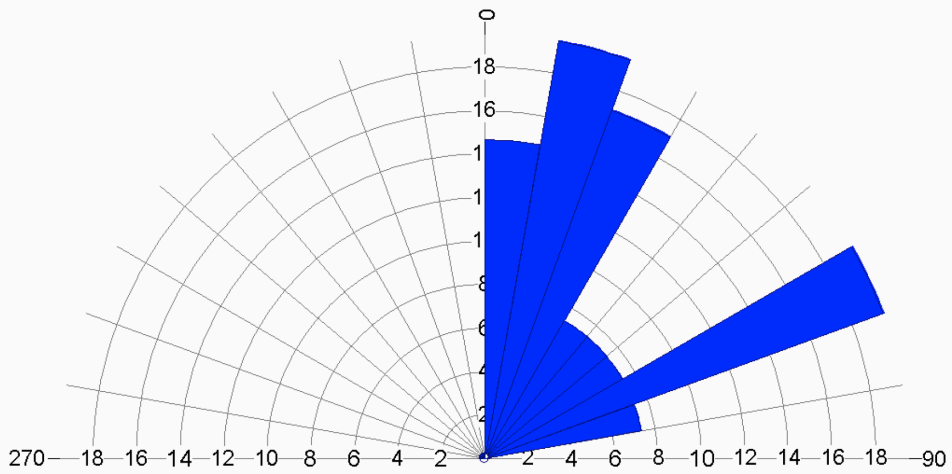
Figure 2.4-100— {Distribution of Fracture Dip Angles in Monitoring Well MW301C}



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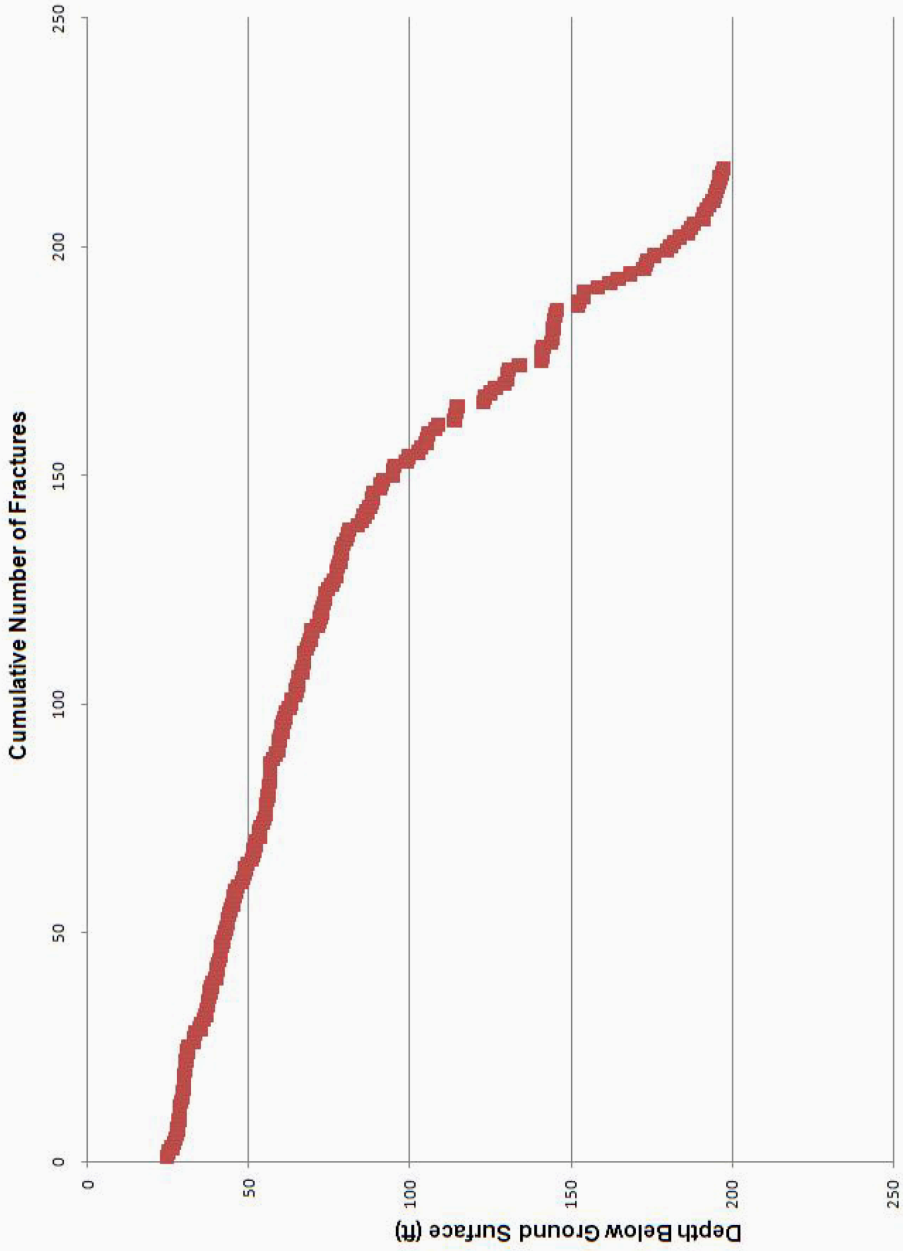

Figure 2.4-101— {Vertical Distribution of Fractures in MW301C Between 45 and 345 Feet Below Ground Surface}

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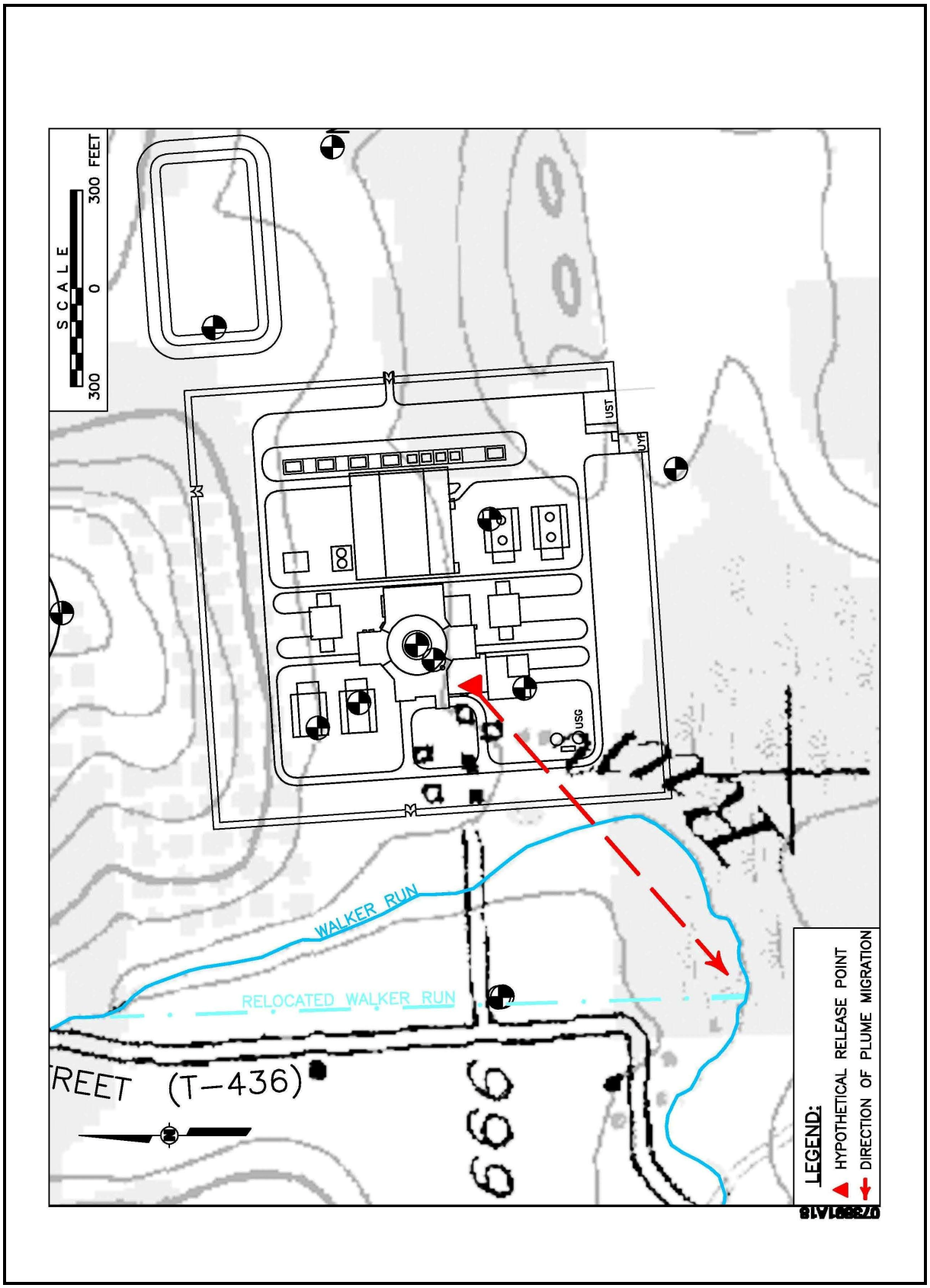

Figure 2.4-102— {Hypothetical Point of Release and Subsurface Migration Path of Accidental Spill}

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Figure 2.4-103— {Distribution of Fracture Dip Directions in Monitoring Well MW310C}

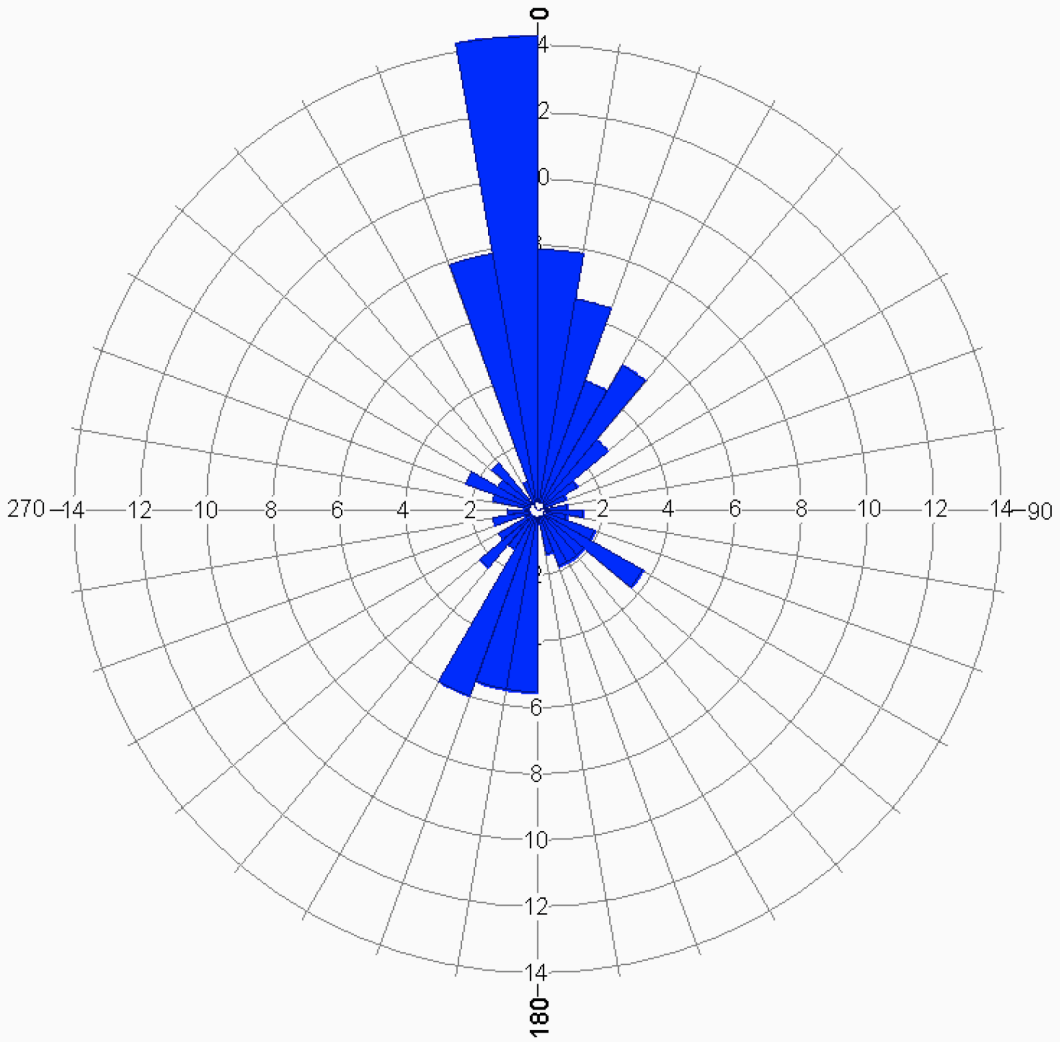

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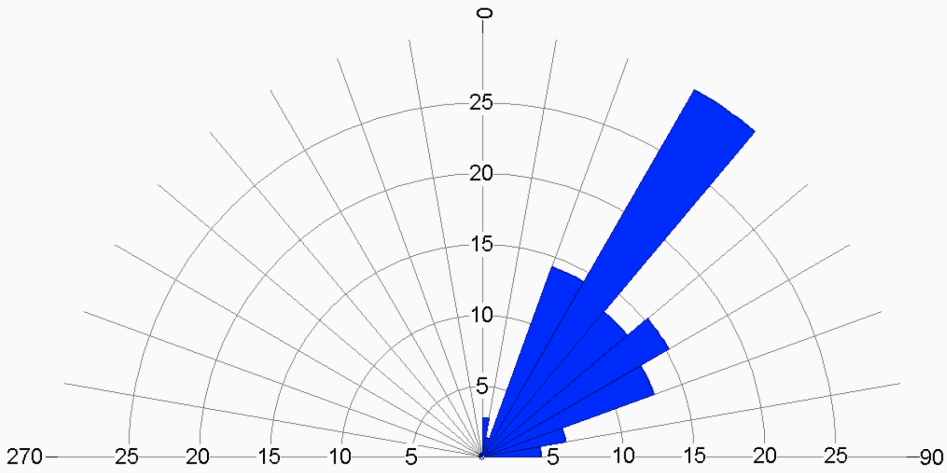
Figure 2.4-104— {Distribution of Fracture Dip Angles in Monitoring Well MW310C}



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