Figure 2.4-61—{Potentiometric Surface of the Magothy Aquifer in Southern MD, September 2003}

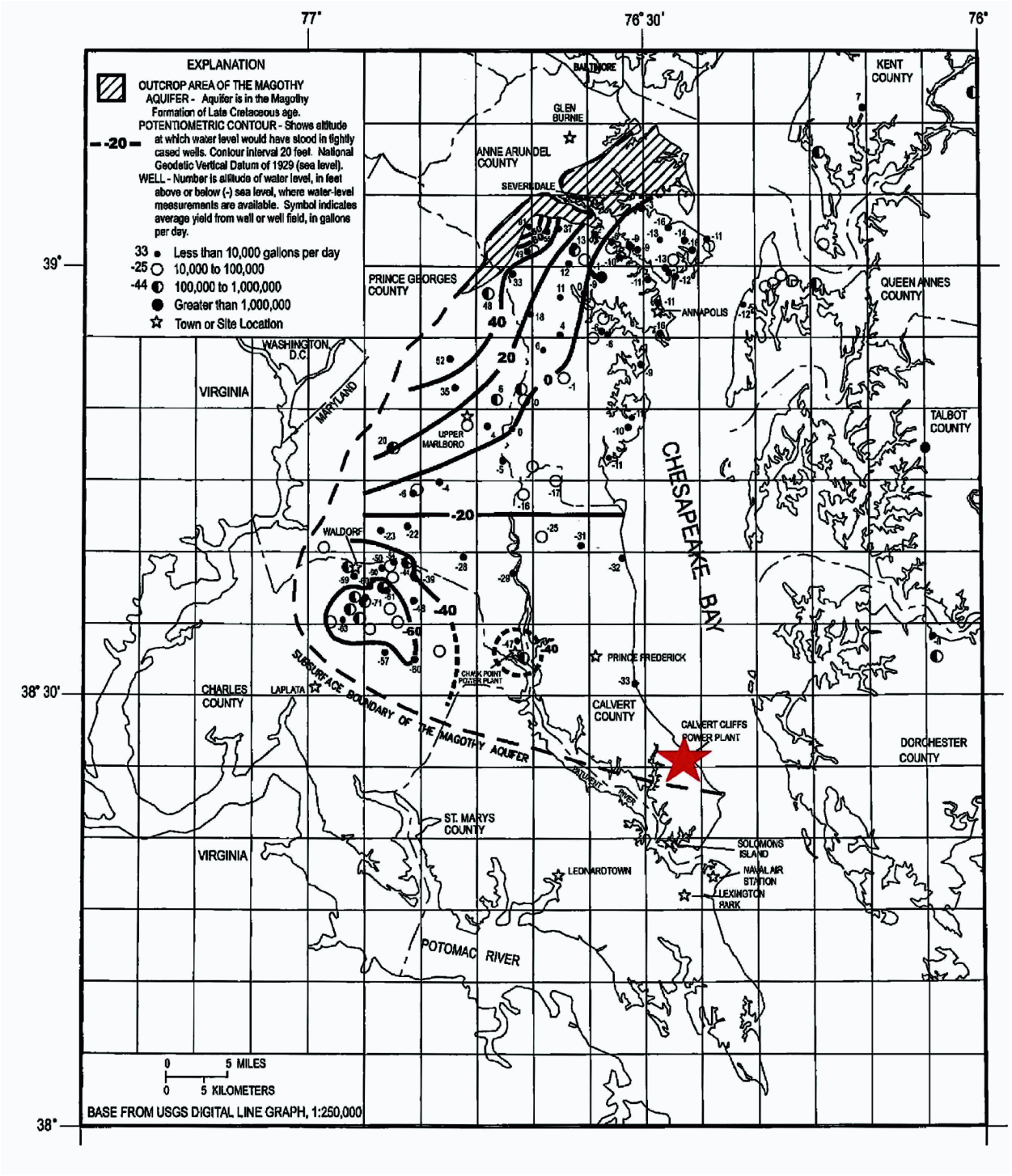

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Figure 2.4-62—{Potentiometric Surface of the Upper Patapsco Aquifer in Southern MD, September 2003}

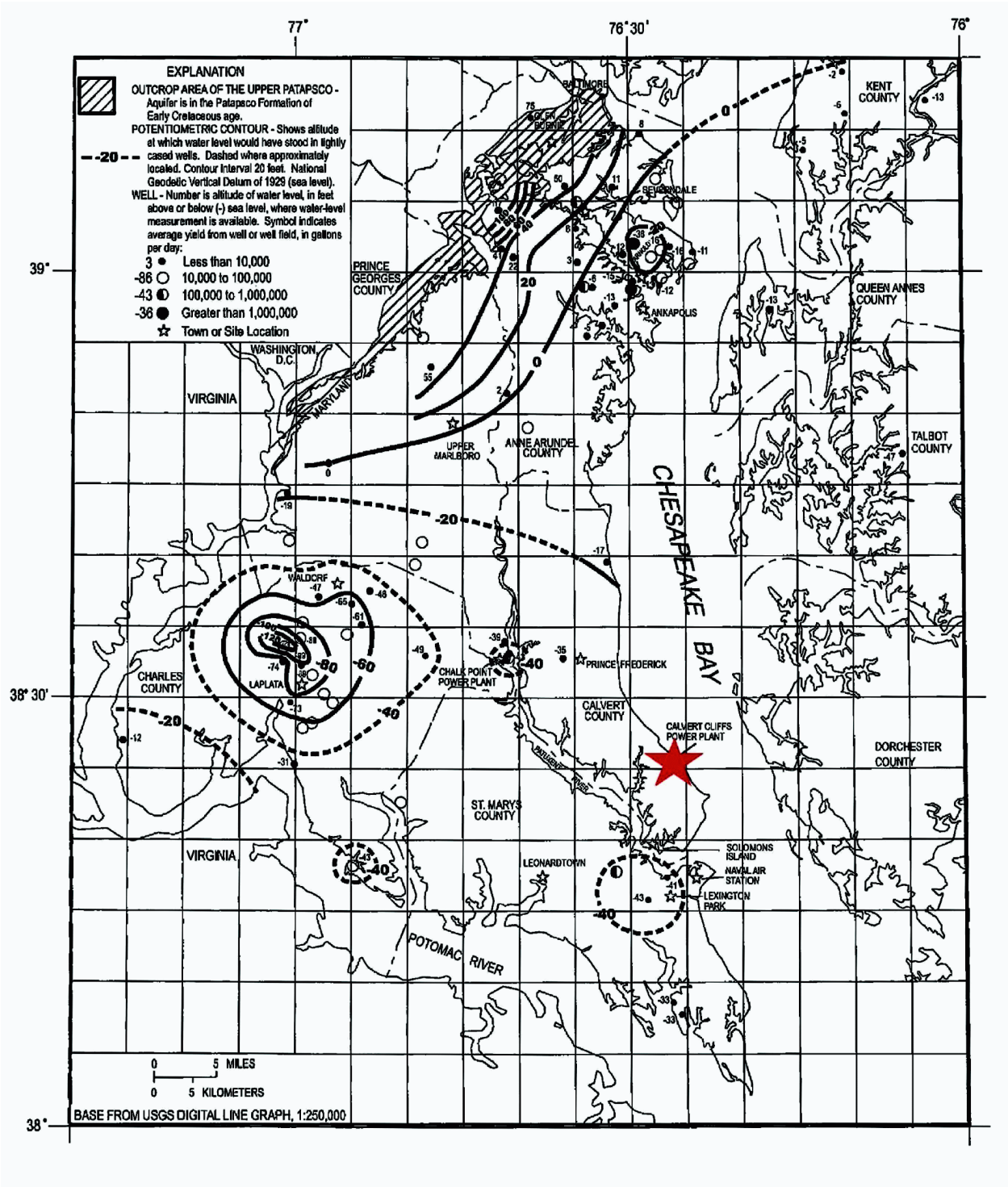

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Figure 2.4-63—{Potentiometric Surface of the Lower Patapsco Aquifer in Southern MD, September 2003}

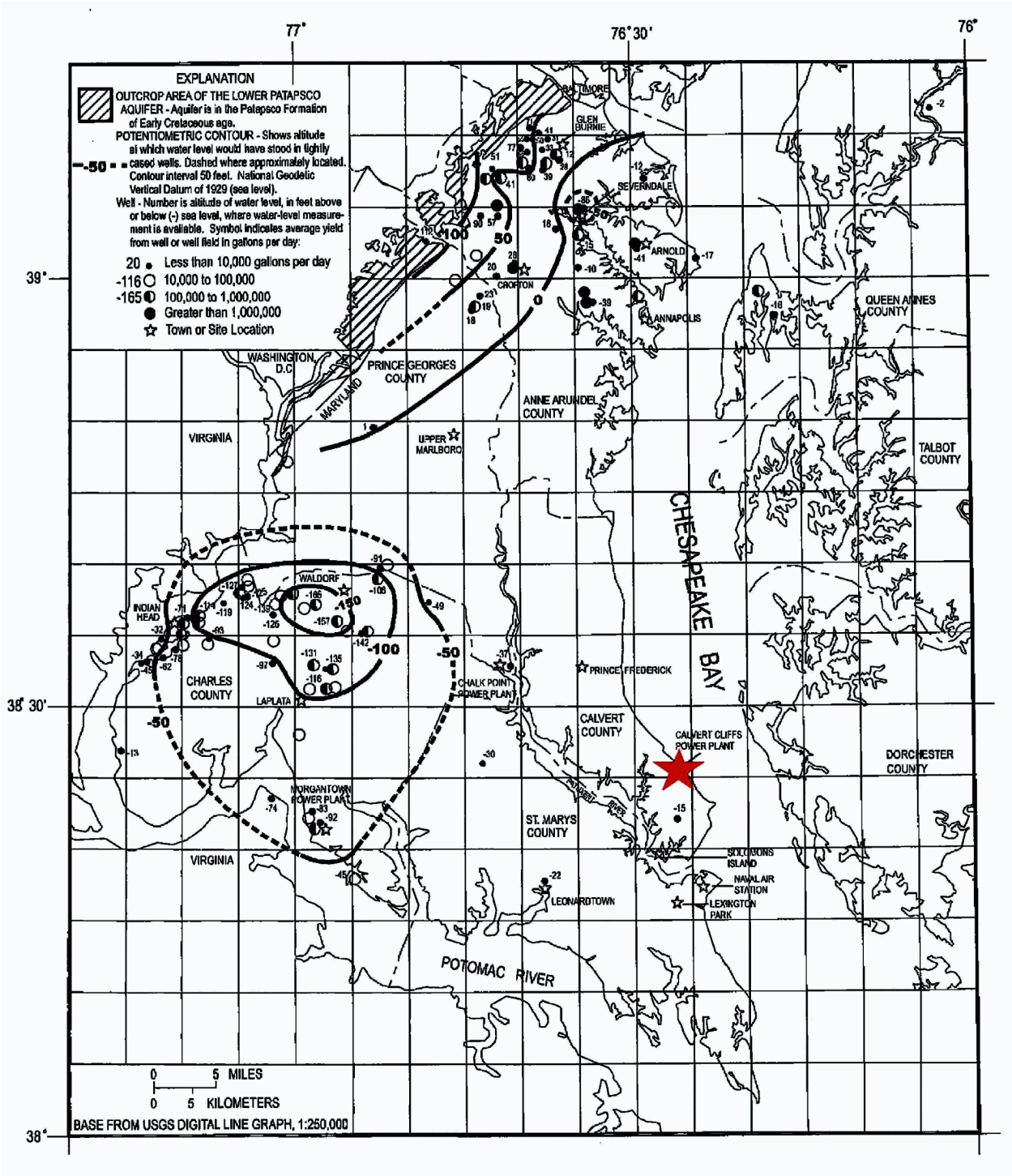

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Figure 2.4-64—{CCNPP Site Area Topography and Drainage}

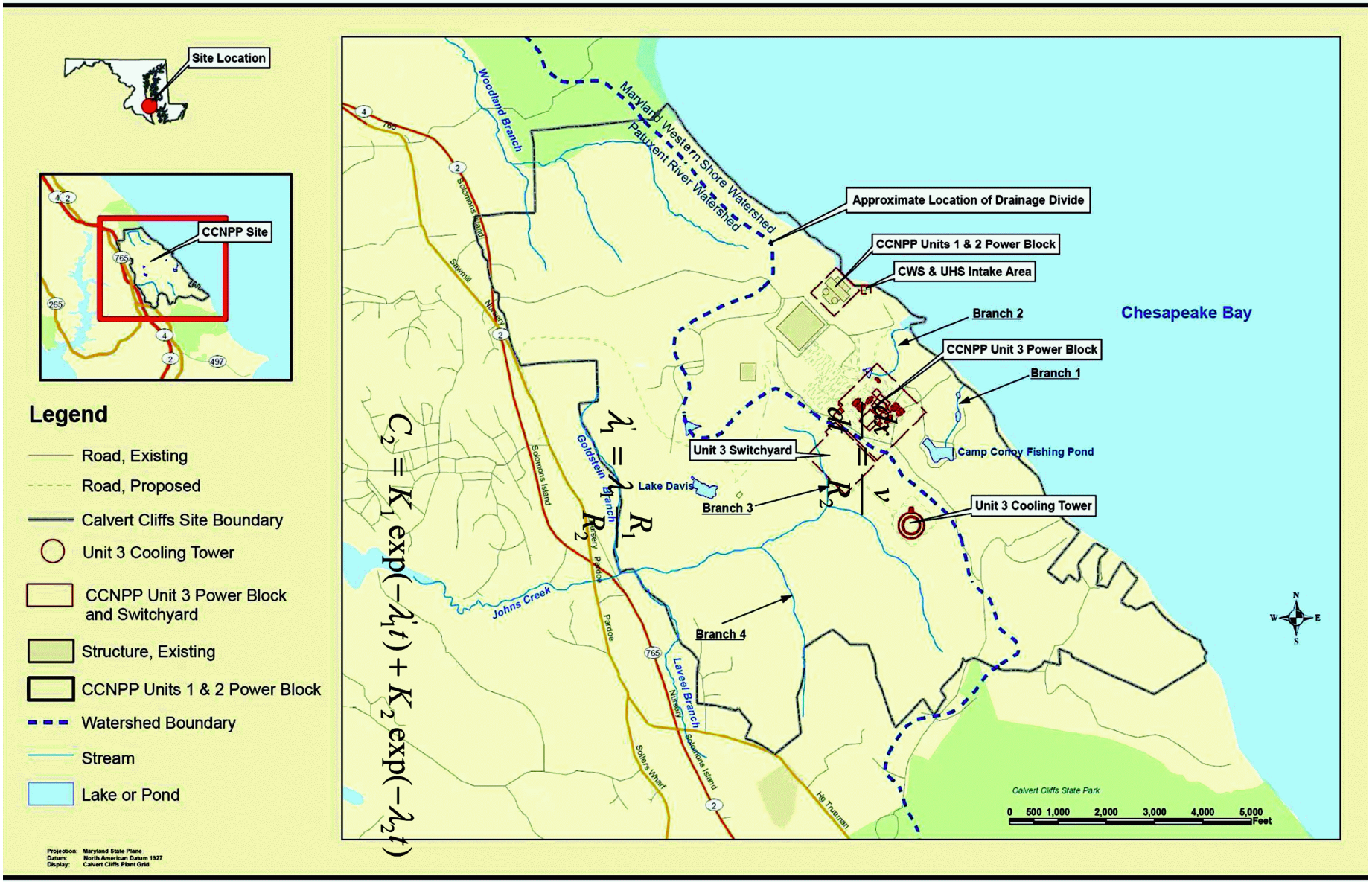

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Figure 2.4-65—{Cross -Section and Soil Boring ~~and~~ Locations in the Vicinity of CCNPP Unit 3~~Proposed Unit 3 Power Block Area~~}

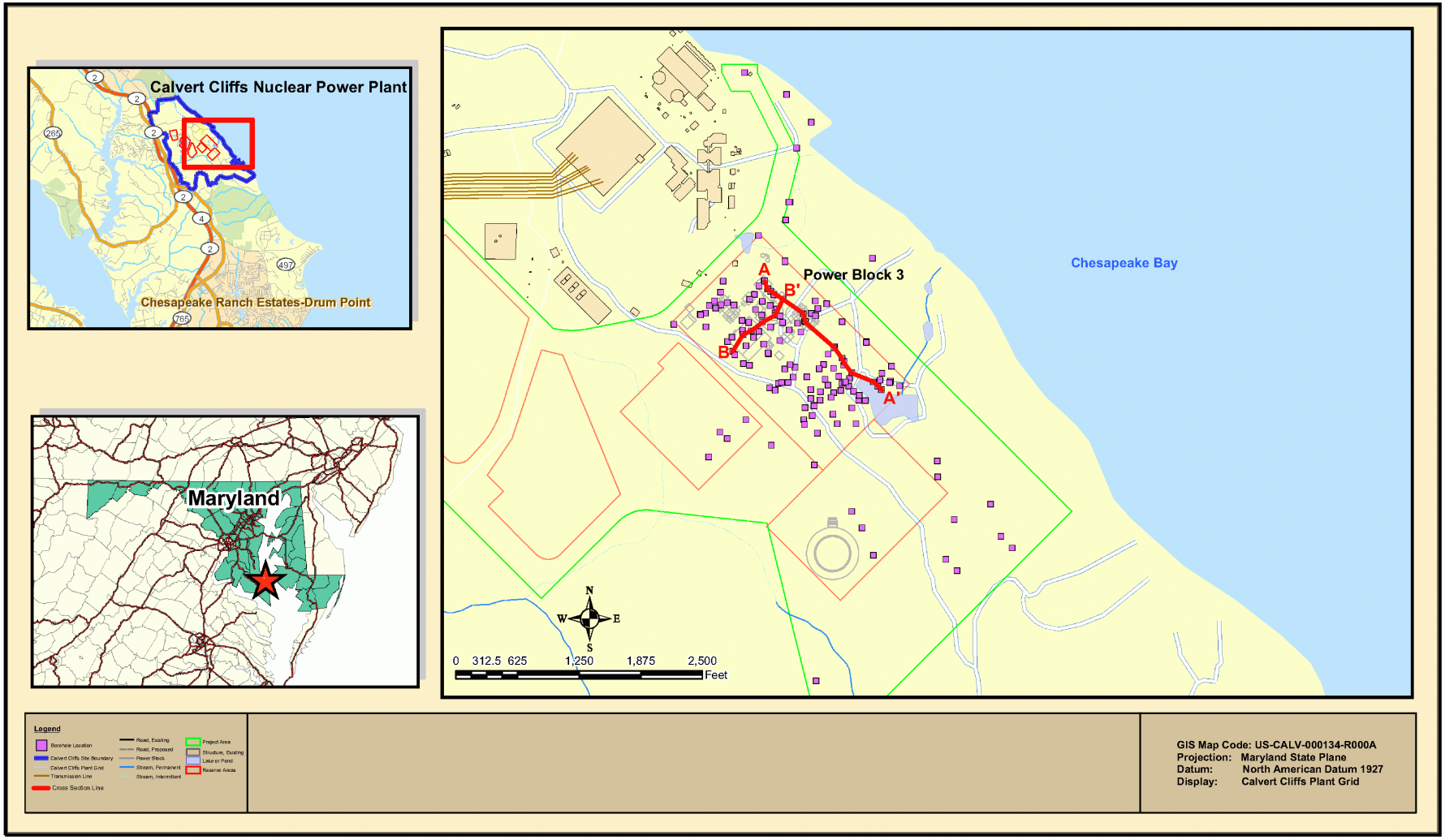

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Figure 2.4-66—{Cross-Section A-A' Through Proposed Unit 3 Power Block Area}

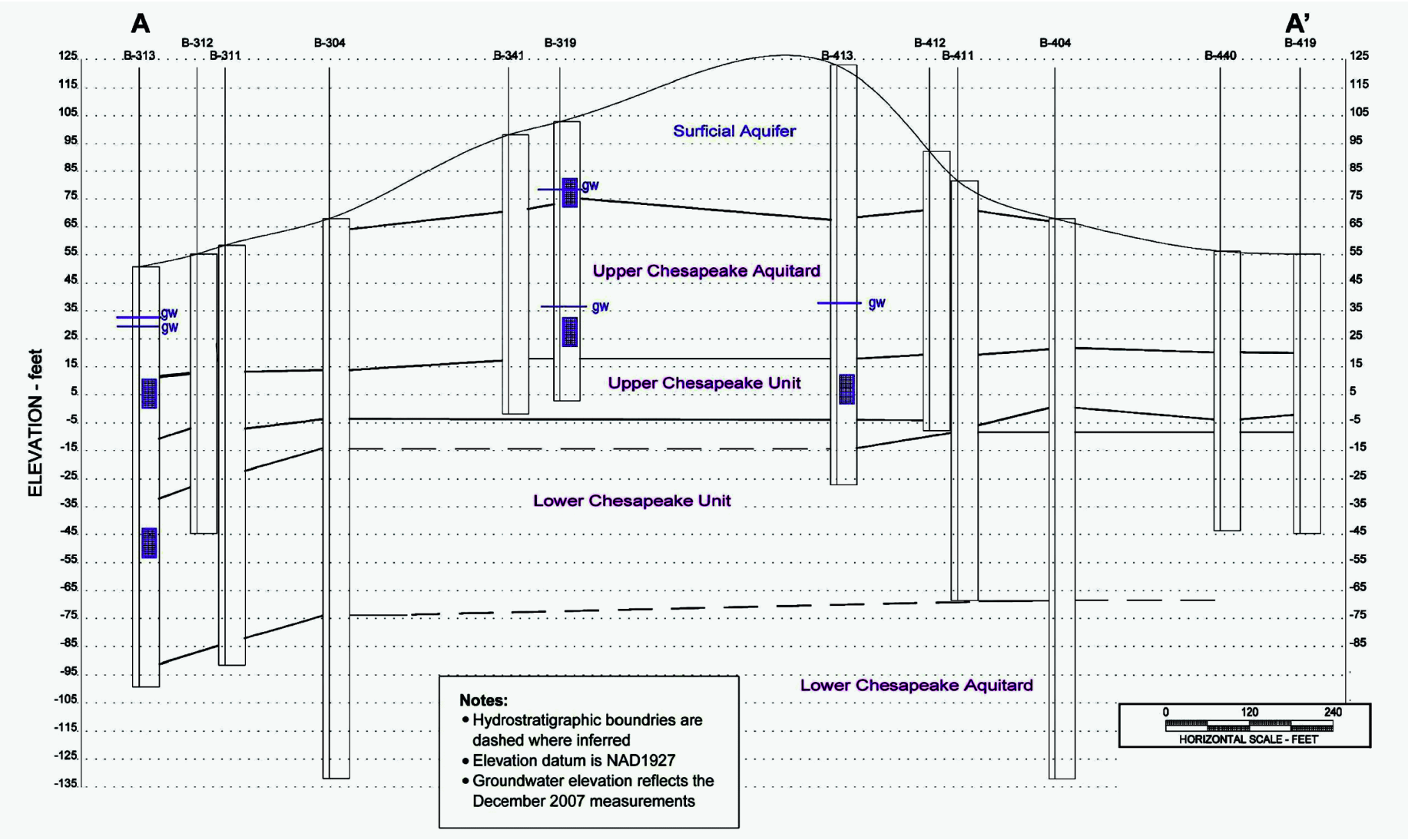

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Figure 2.4-67—{Cross-Section B-B' Through Proposed Unit 3 Power Block Area}

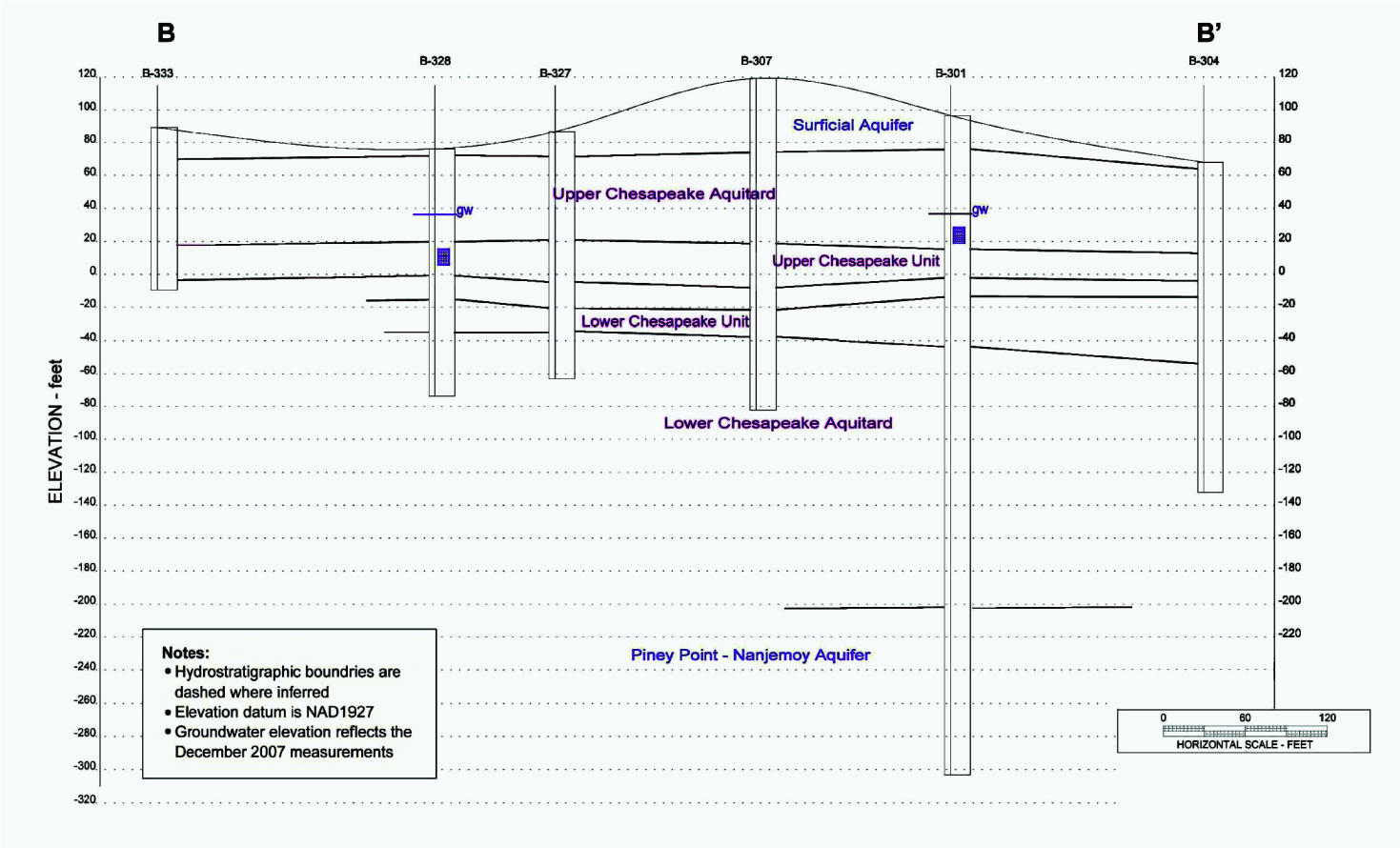

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Figure 2.4-68—{Ground ~~W~~water Observation Wells and Cross-Section Locations in the Vicinity of CCNPP Unit 3}

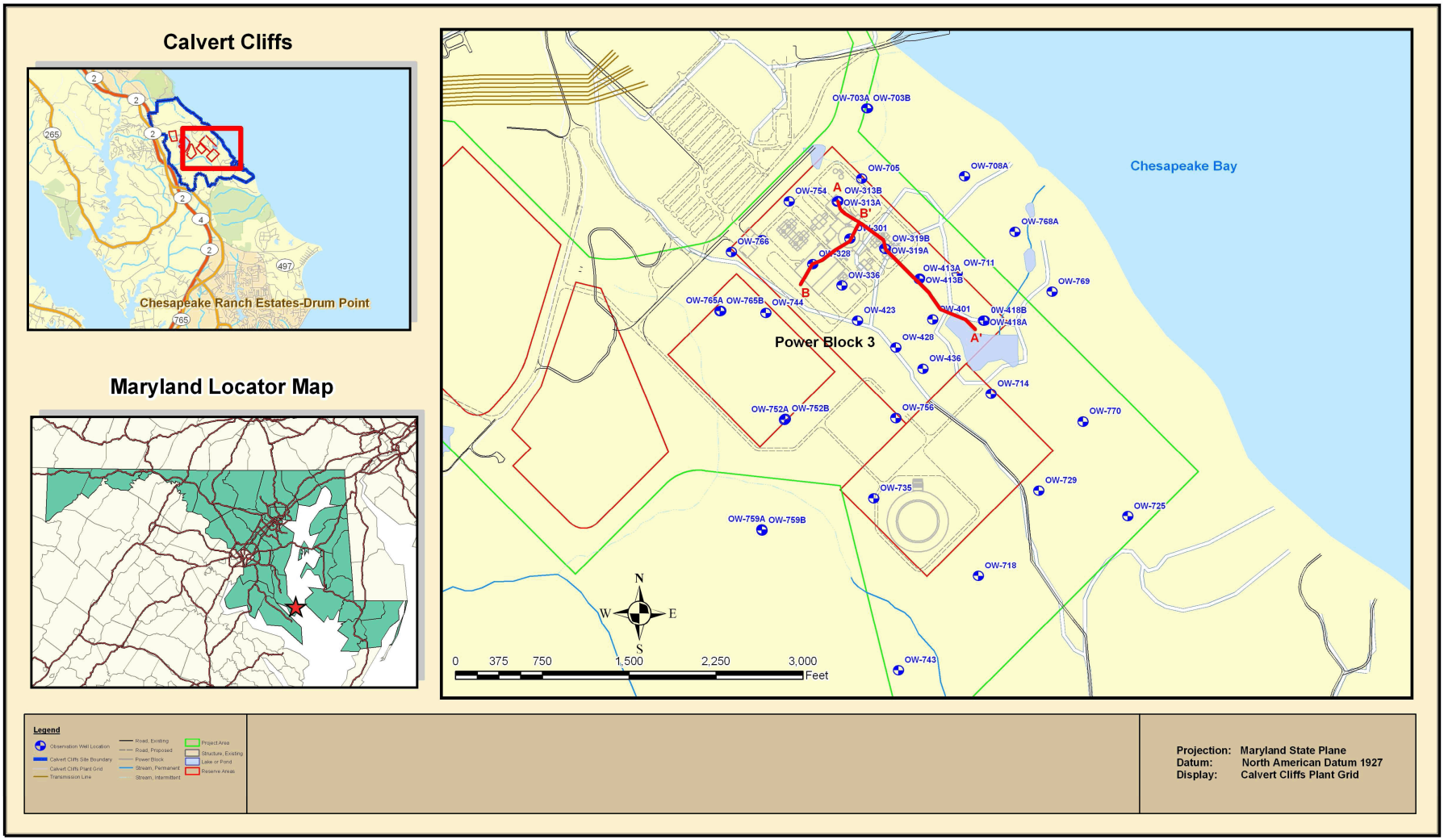

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Figure 2.4-69—{Ground Water Elevations for the Surficial Aquifer, July 2006 Through March 2007}

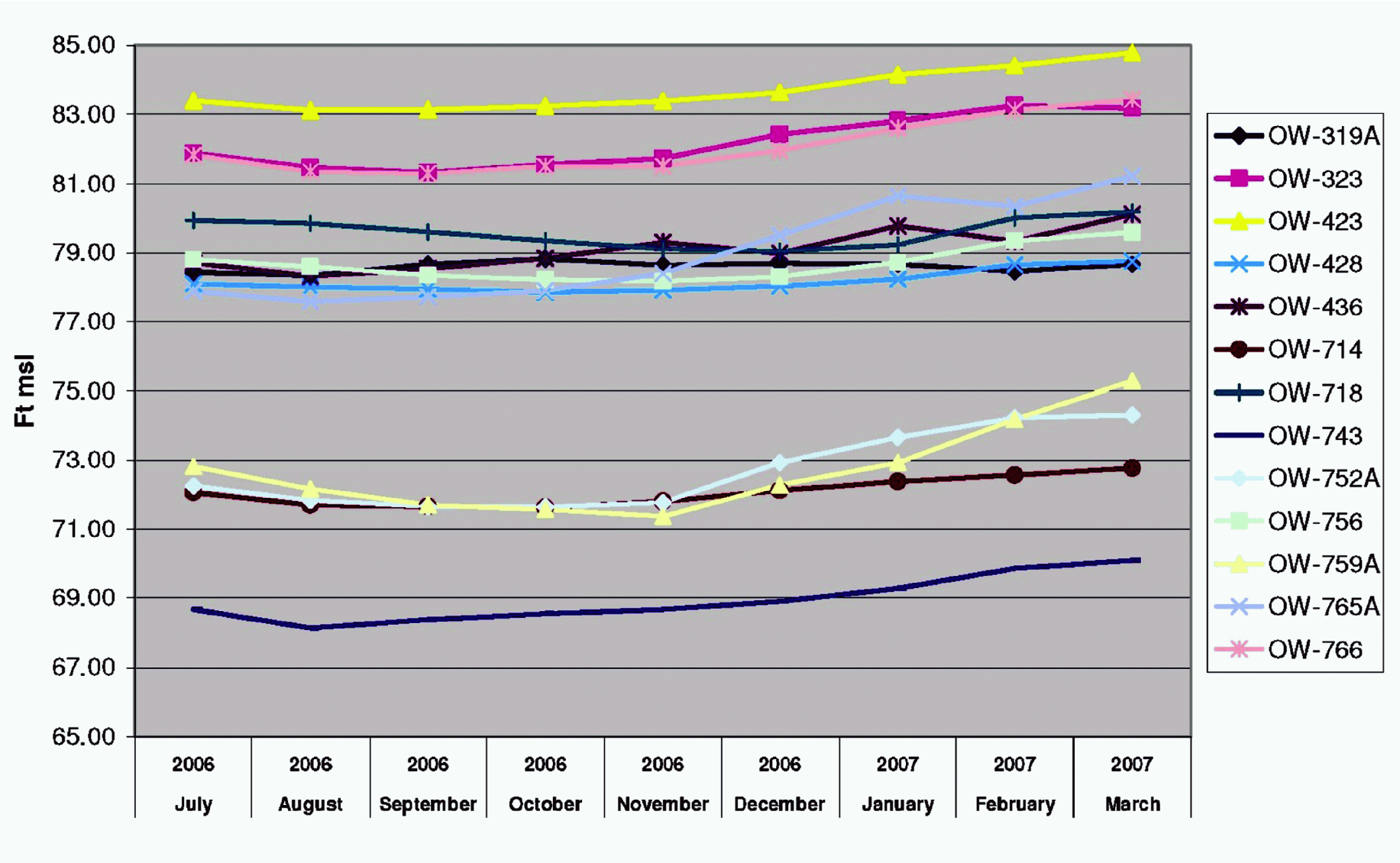

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Figure 2.4-70—{Water Table Elevation Map and Groundwater Flow Direction for the Surficial Aquifer, July 2006}

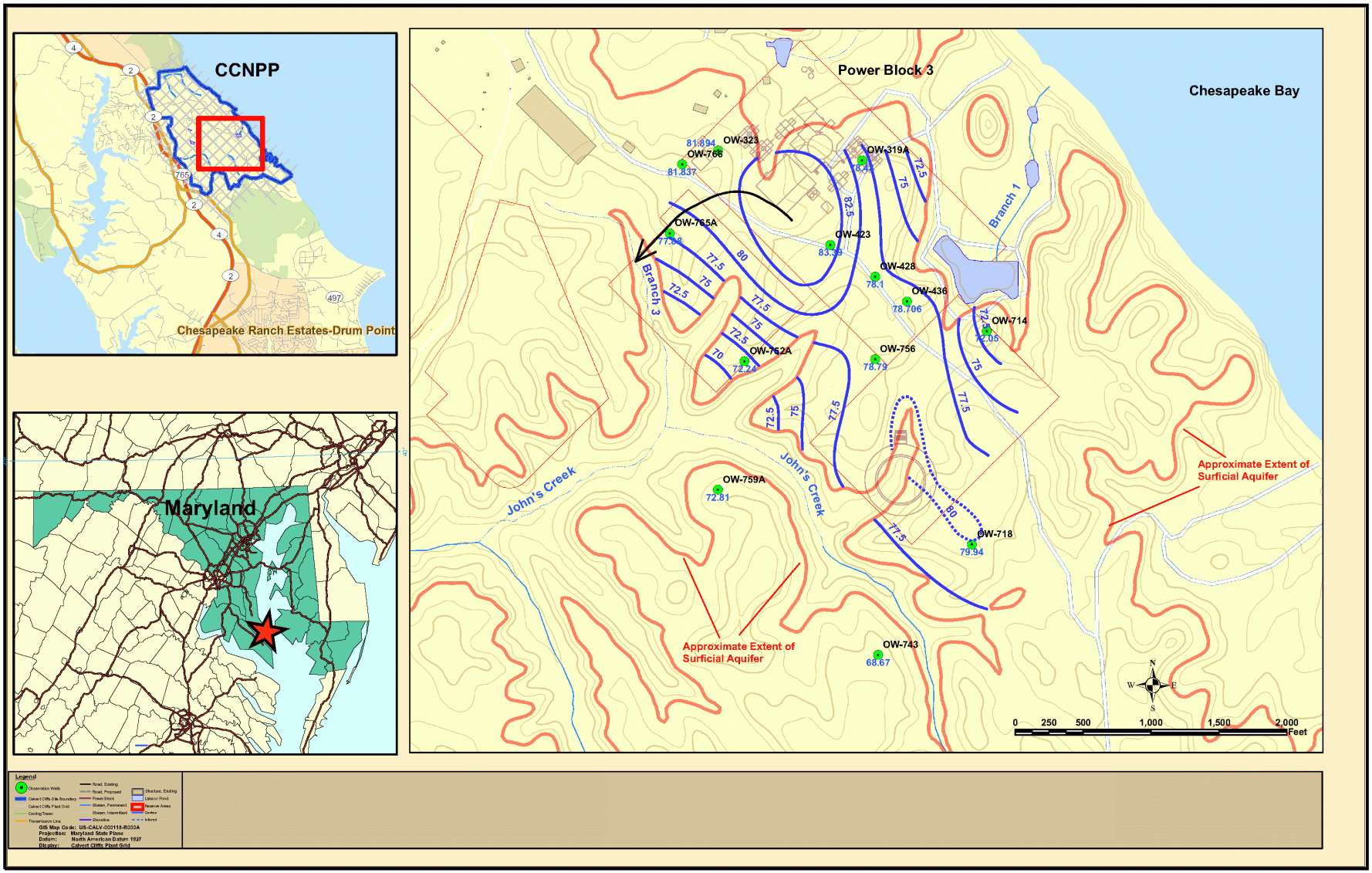

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Figure 2.4-71—{Water Table Elevation Map and Groundwater Flow Direction for the Surficial Aquifer, September 2006}

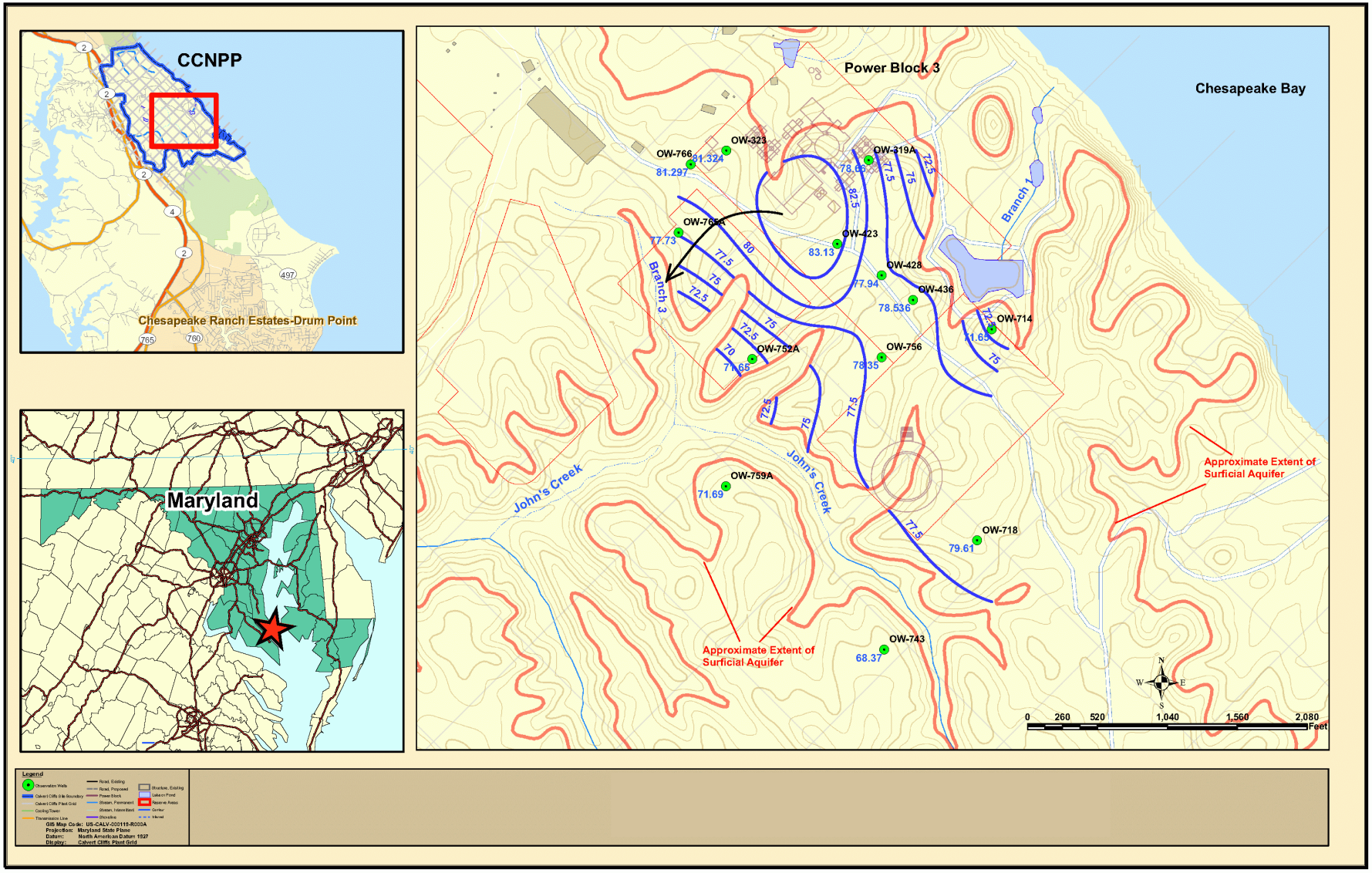

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Figure 2.4-72—{Water Table Elevation Map and Groundwater Flow Direction for the Surficial Aquifer, December 2006}

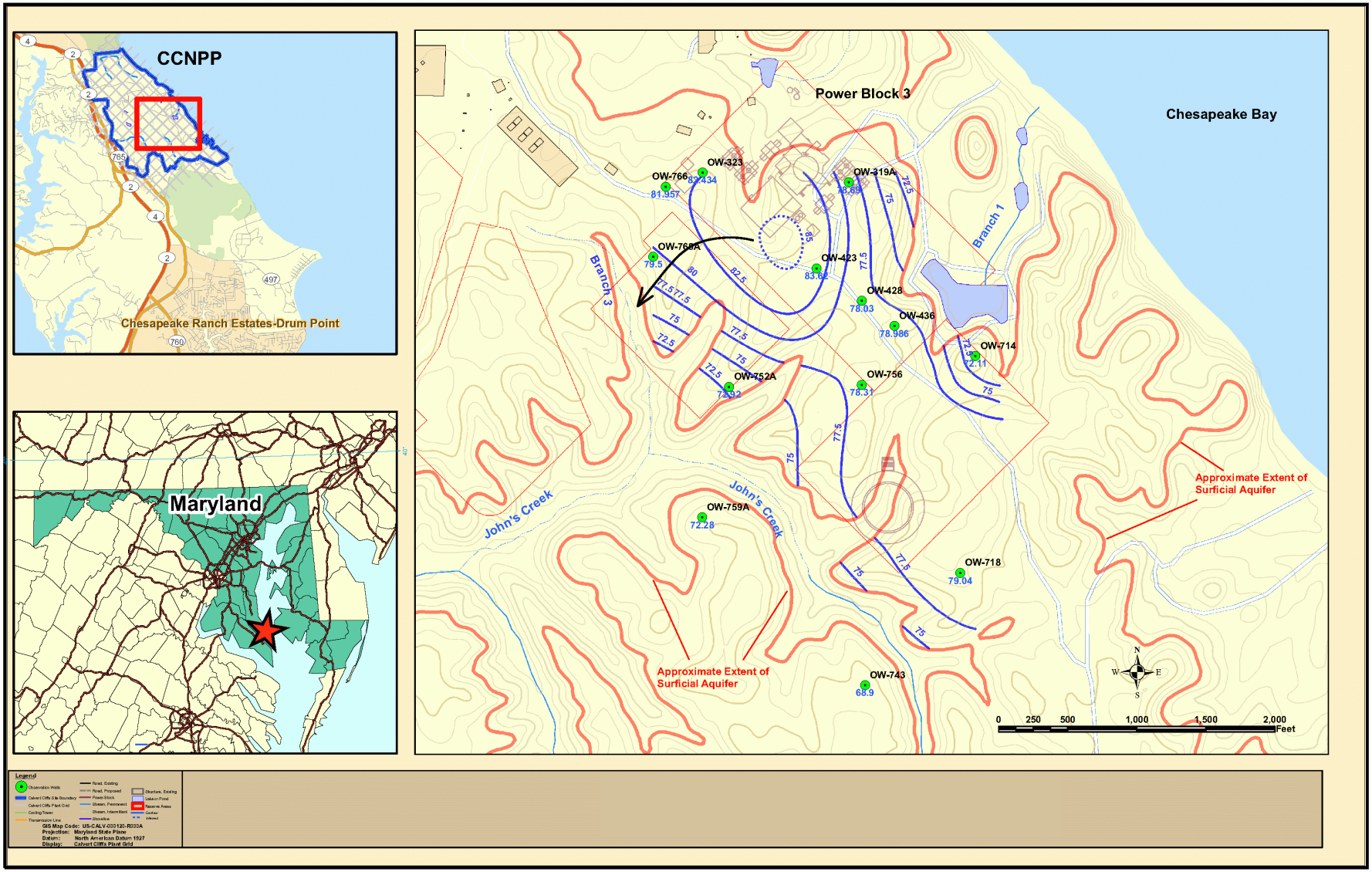

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Figure 2.4-73—{Water Table Elevation Map and Groundwater Flow Direction for the Surficial Aquifer, March 2007}

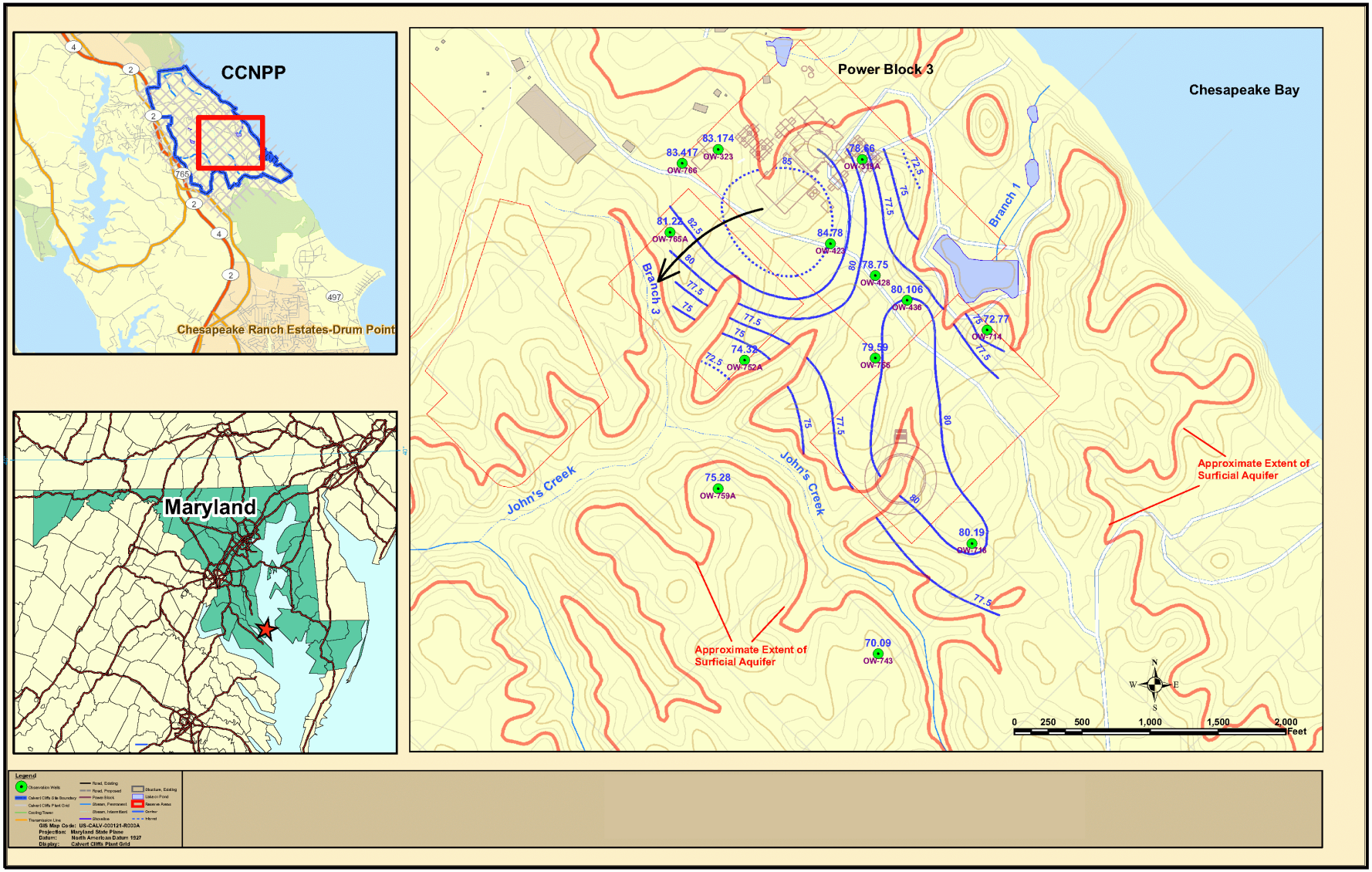

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Figure 2.4-74—{Groundwater Elevations for the Upper Chesapeake Unit, {July 2006 through March 2007}

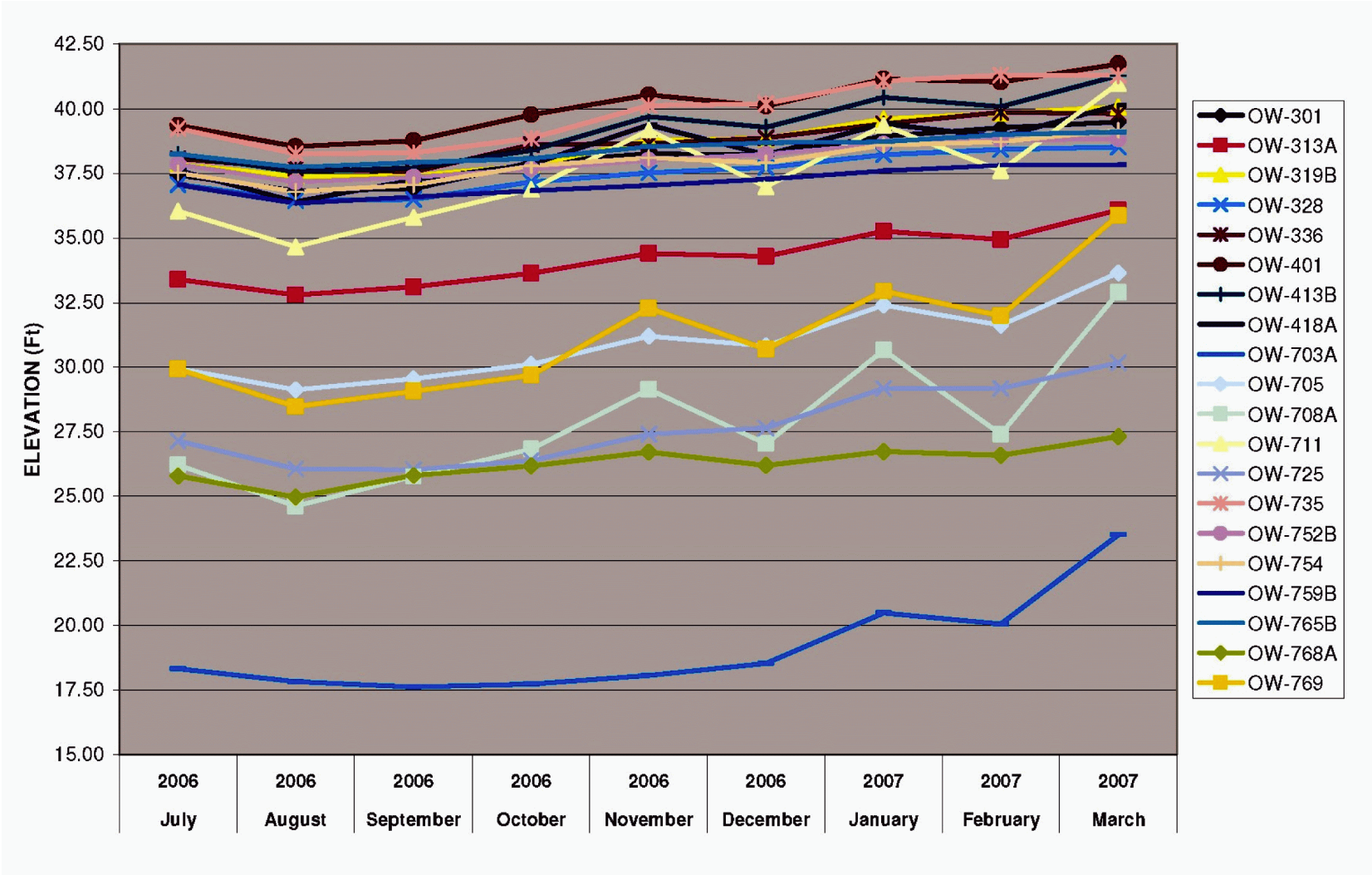

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Figure 2.4-75—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, July 2006}

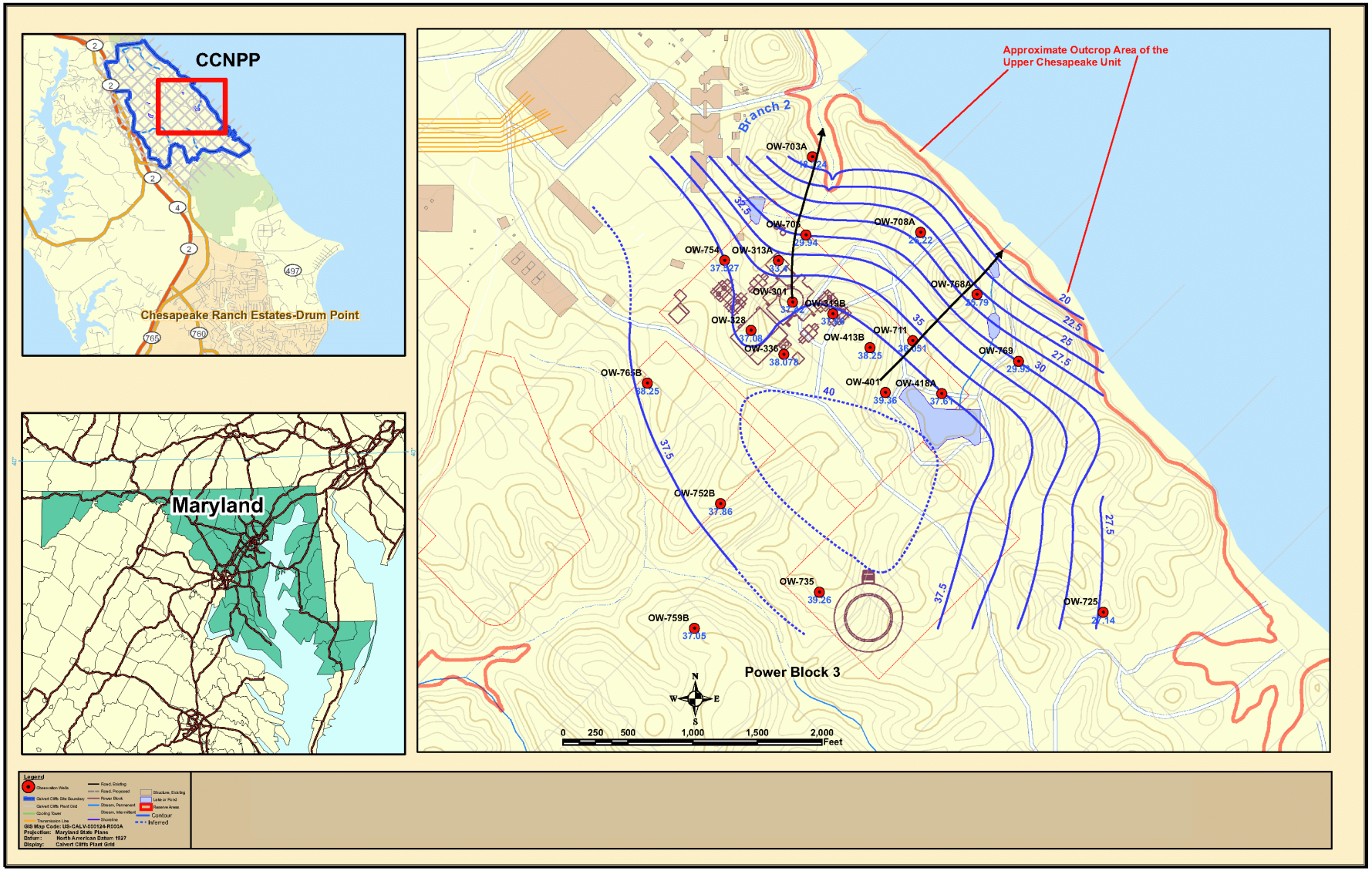

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Figure 2.4-76—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, Sept 2006}

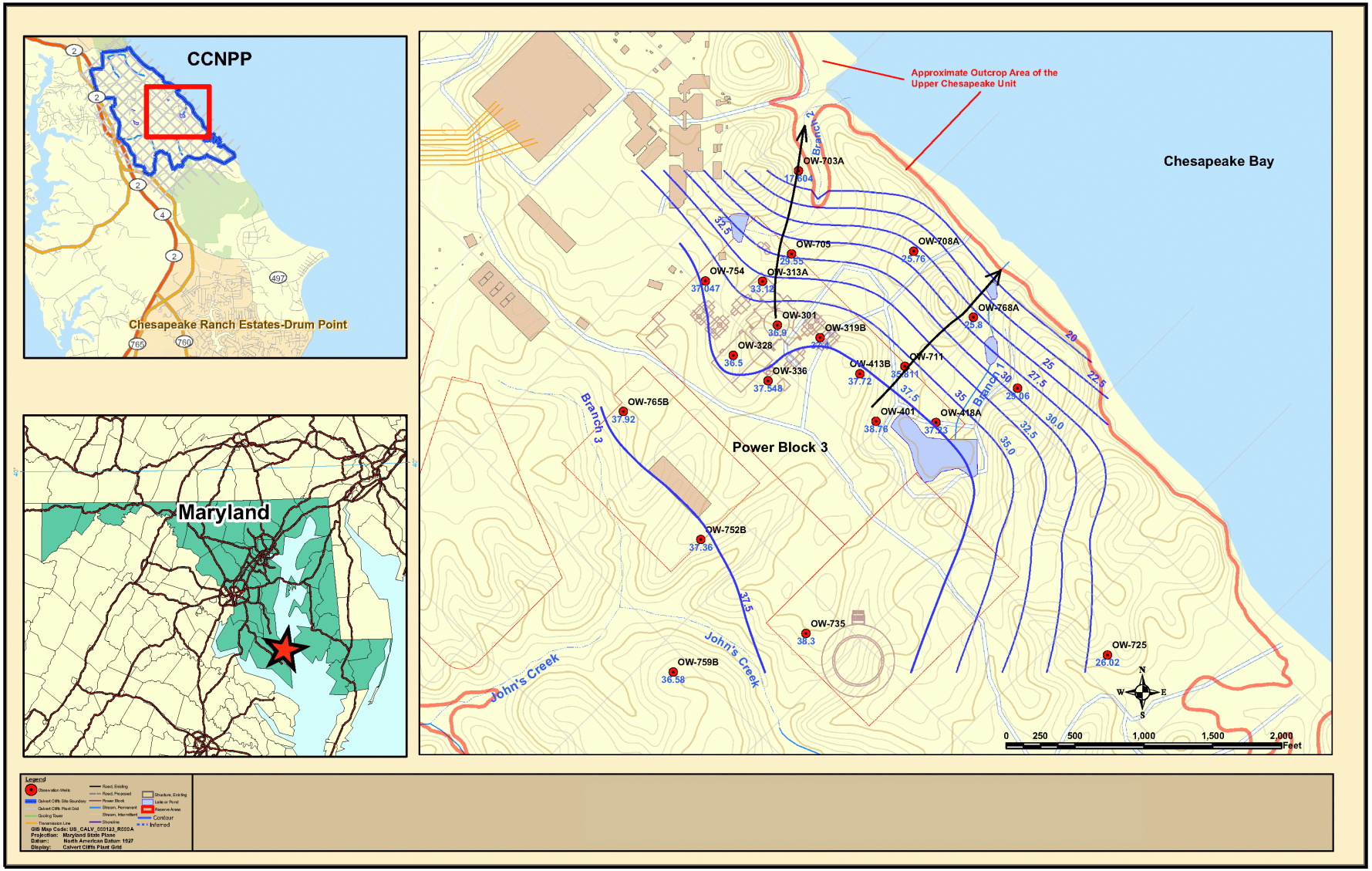

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Figure 2.4-77—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, Dec 2006}

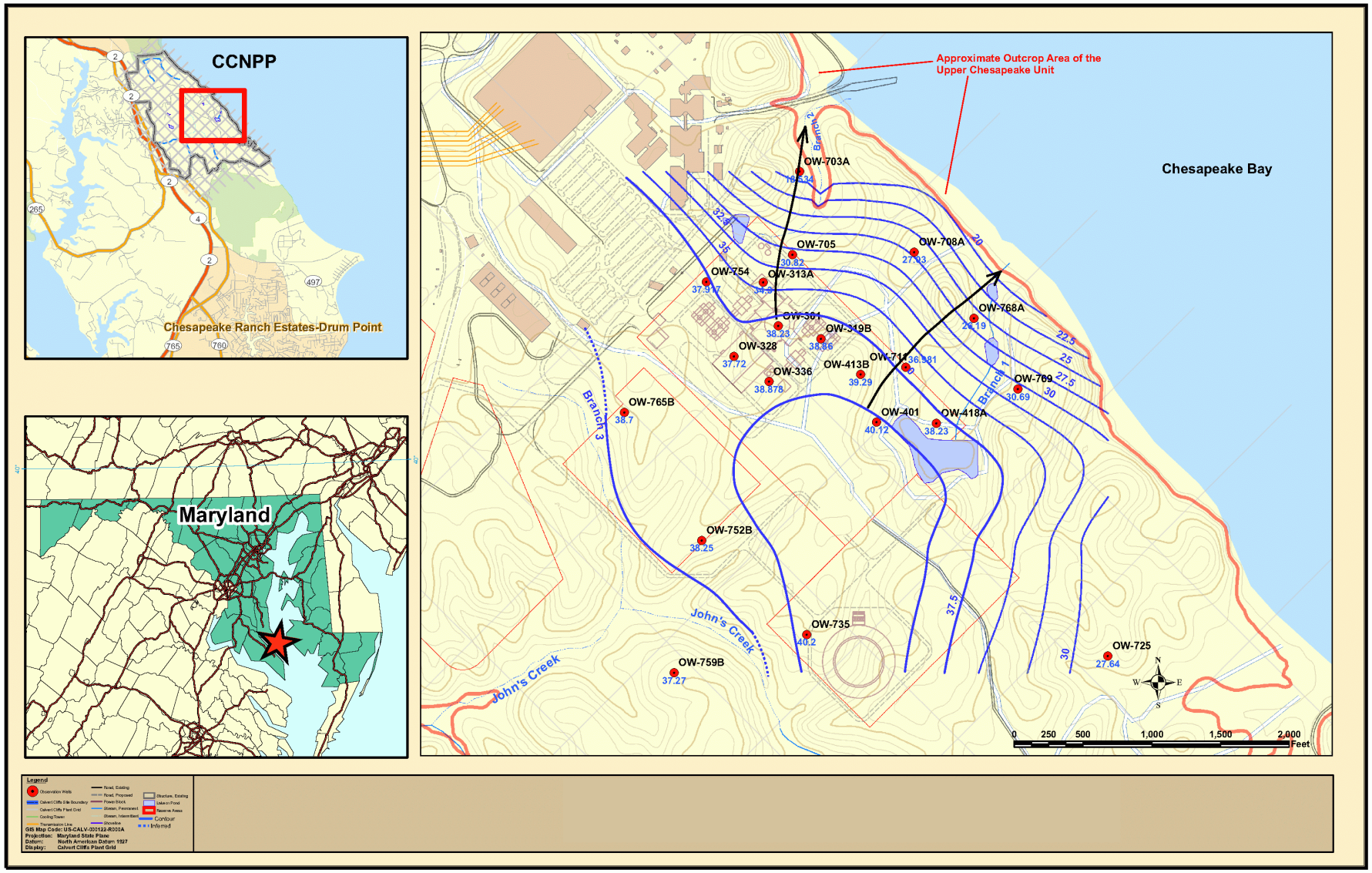

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Figure 2.4-78—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, March 2007}

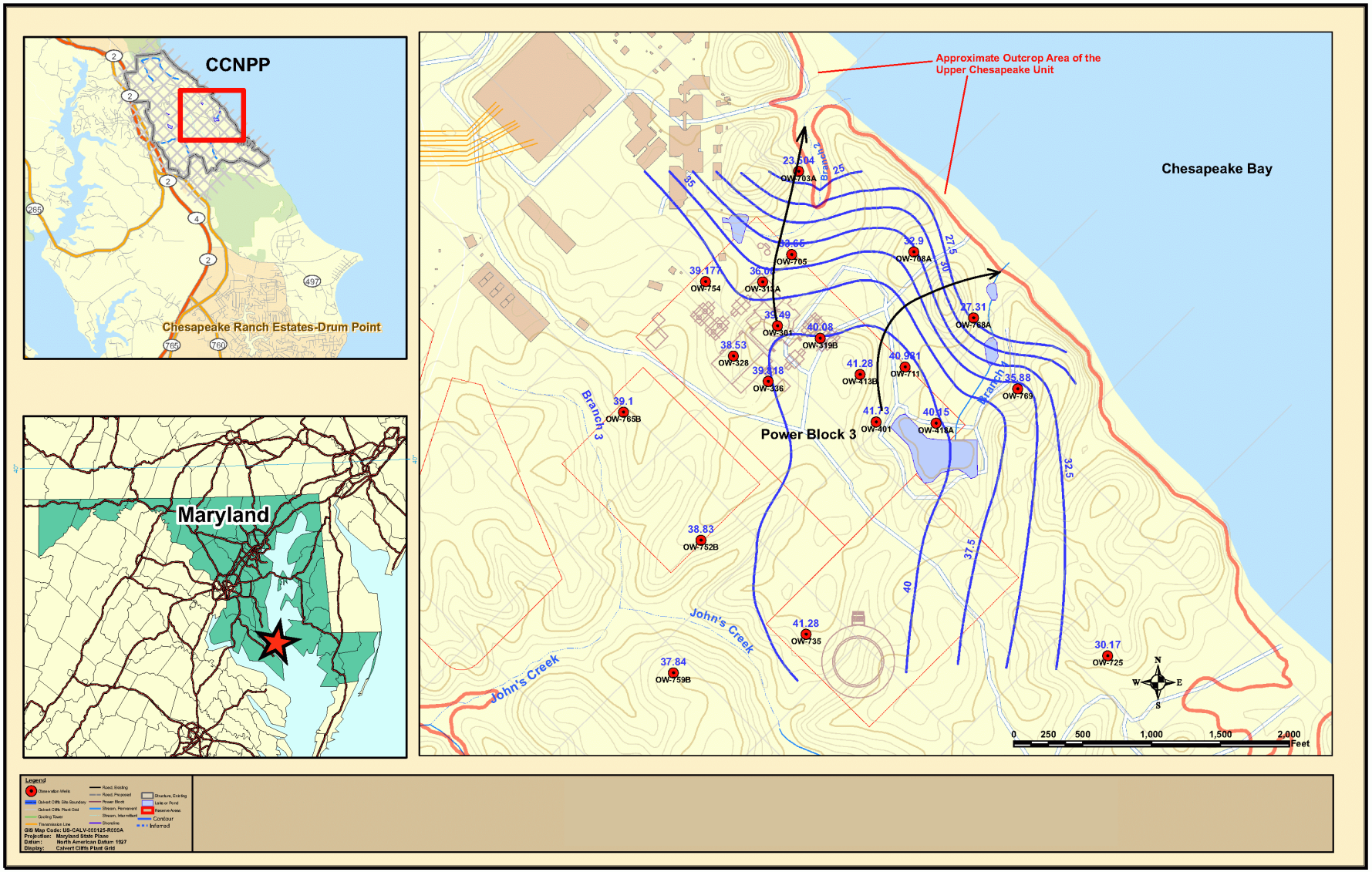

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Figure 2.4-79—{Groundwater Elevations for the Lower Chesapeake Unit, July 2006 through March 2007}

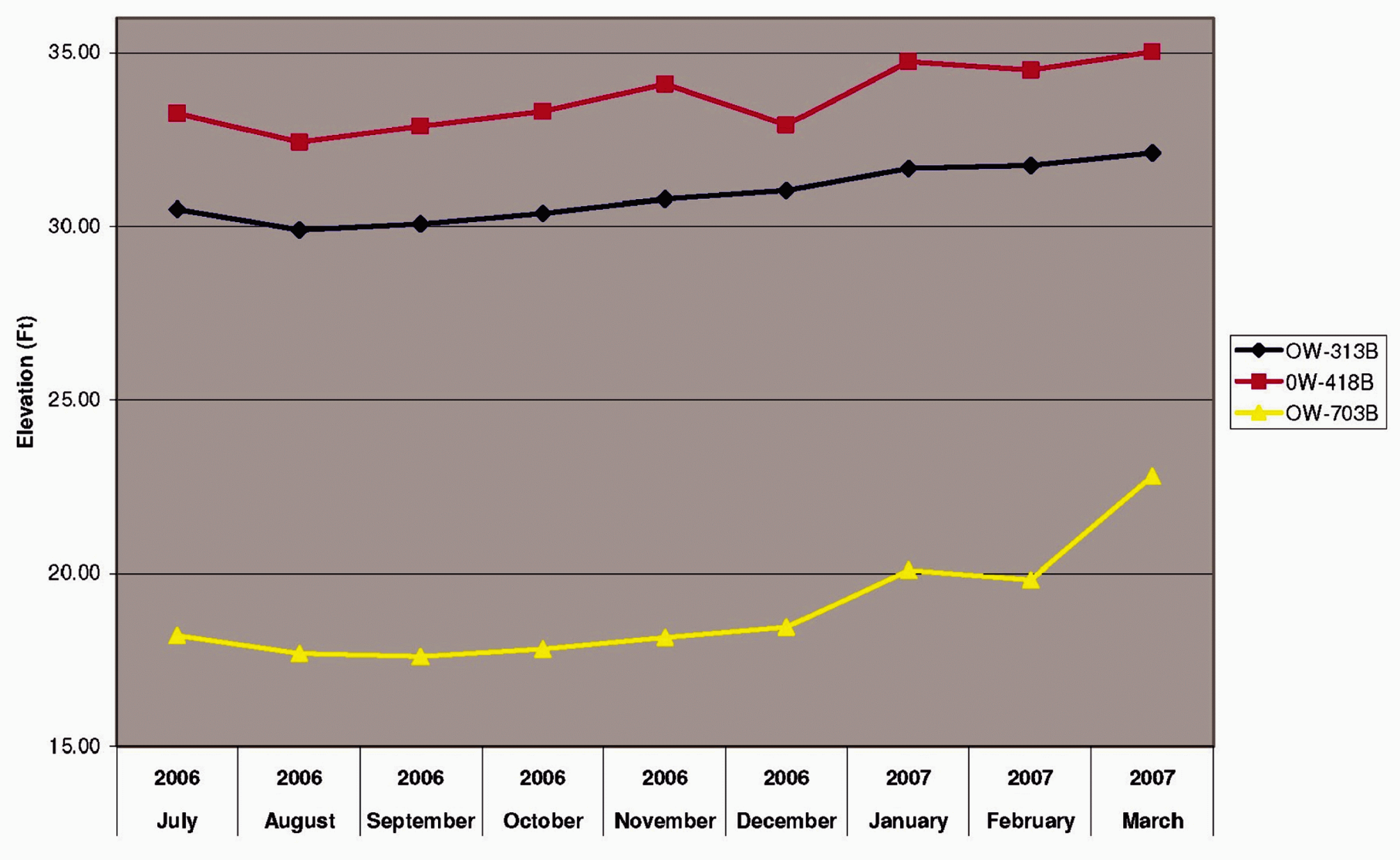

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Figure 2.4-80—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower Chesapeake Unit, July 2006}

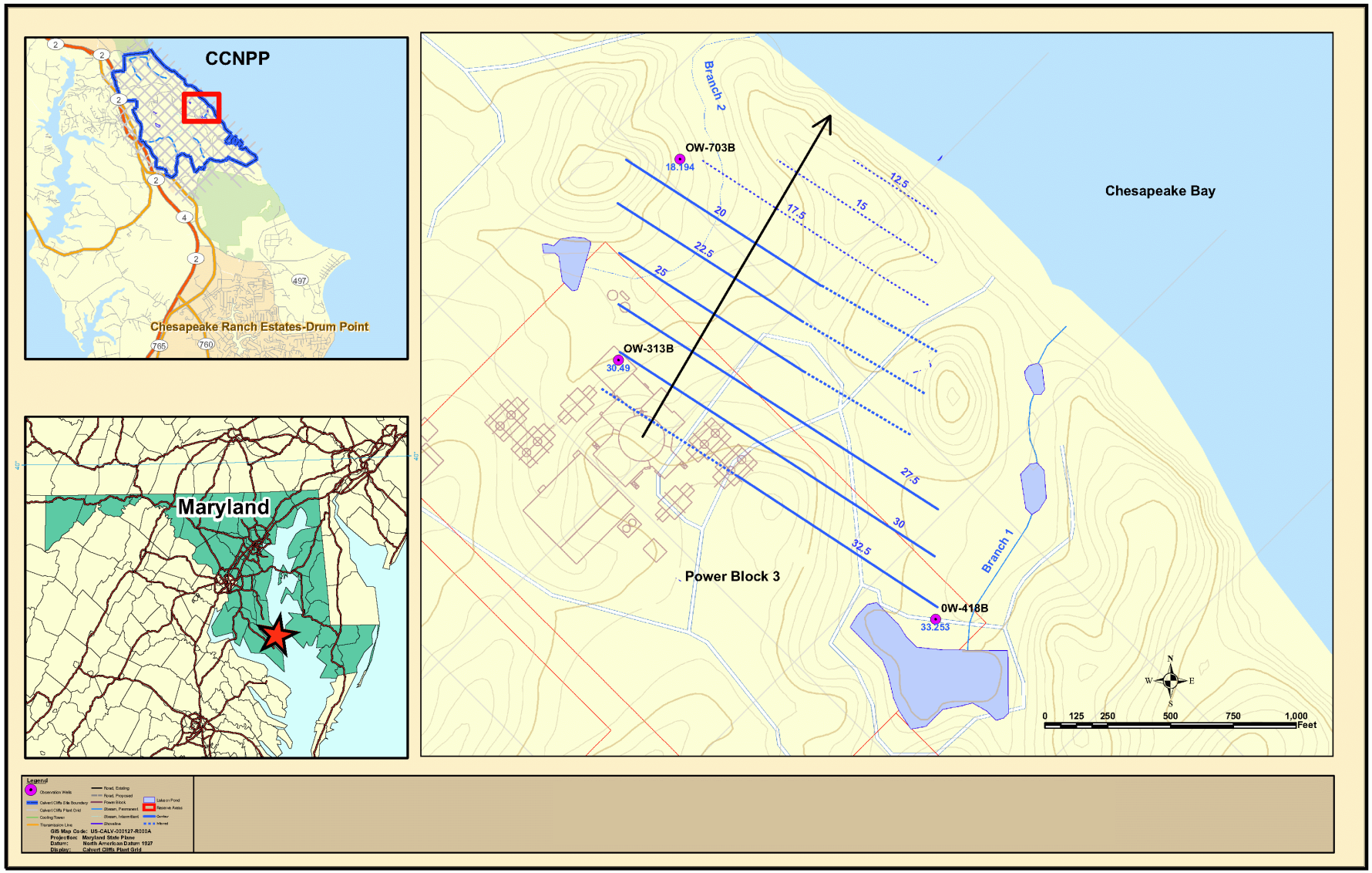

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Figure 2.4-81—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower Chesapeake Unit, Sept 2006}

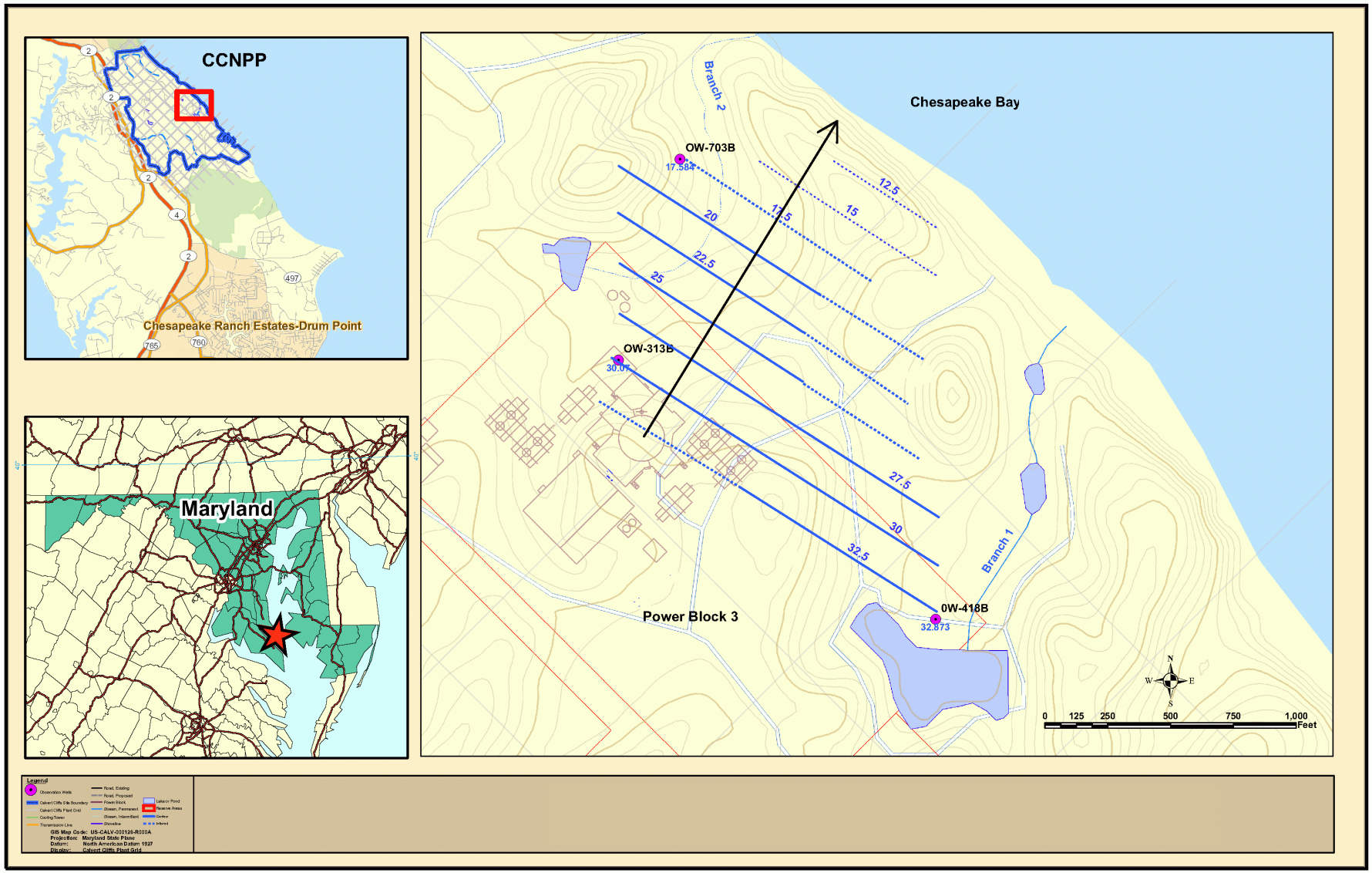

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Figure 2.4-82—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower Chesapeake Unit, Dec 2006}

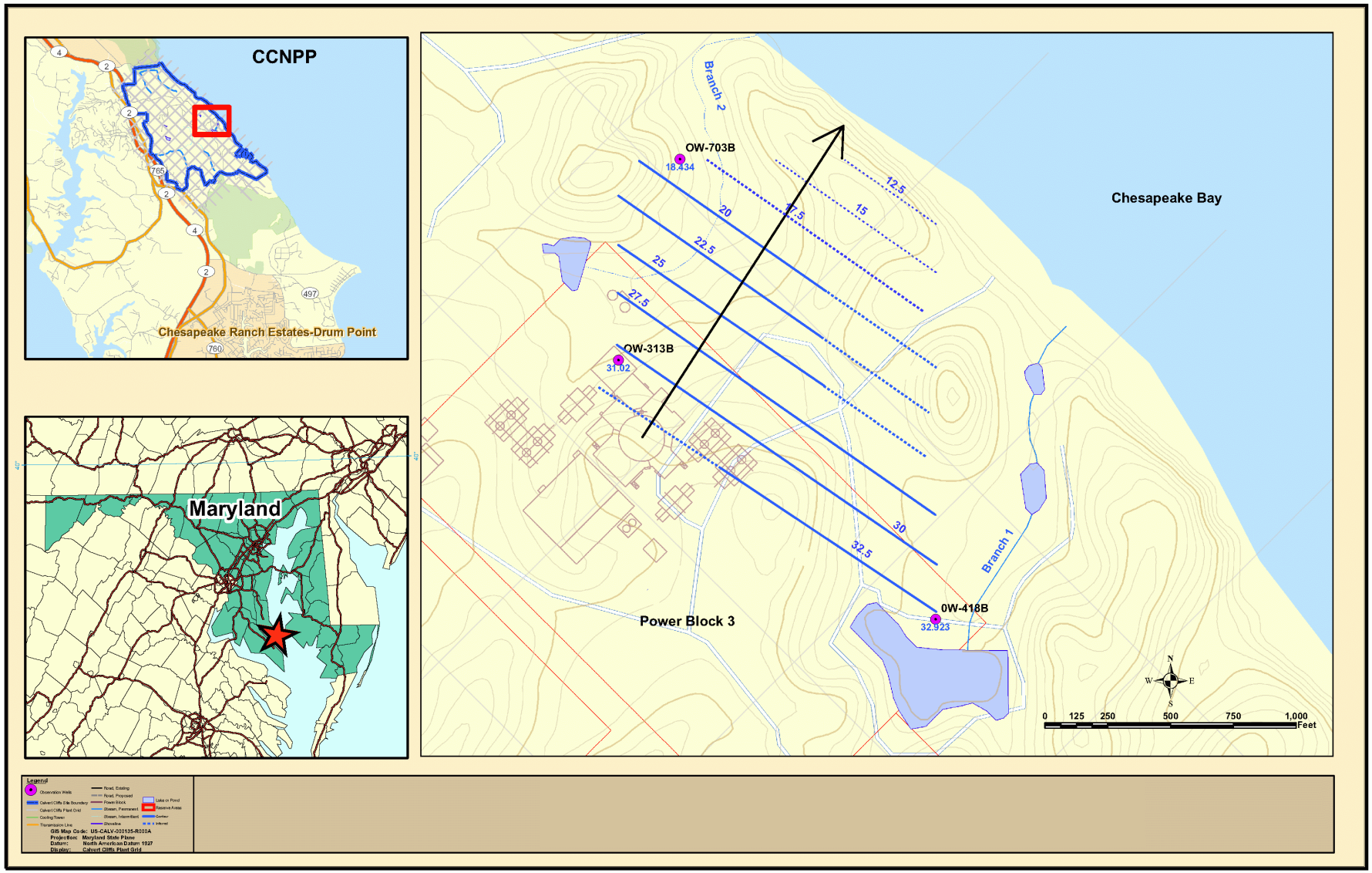

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Figure 2.4-83—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower Chesapeake Unit, March 2007}

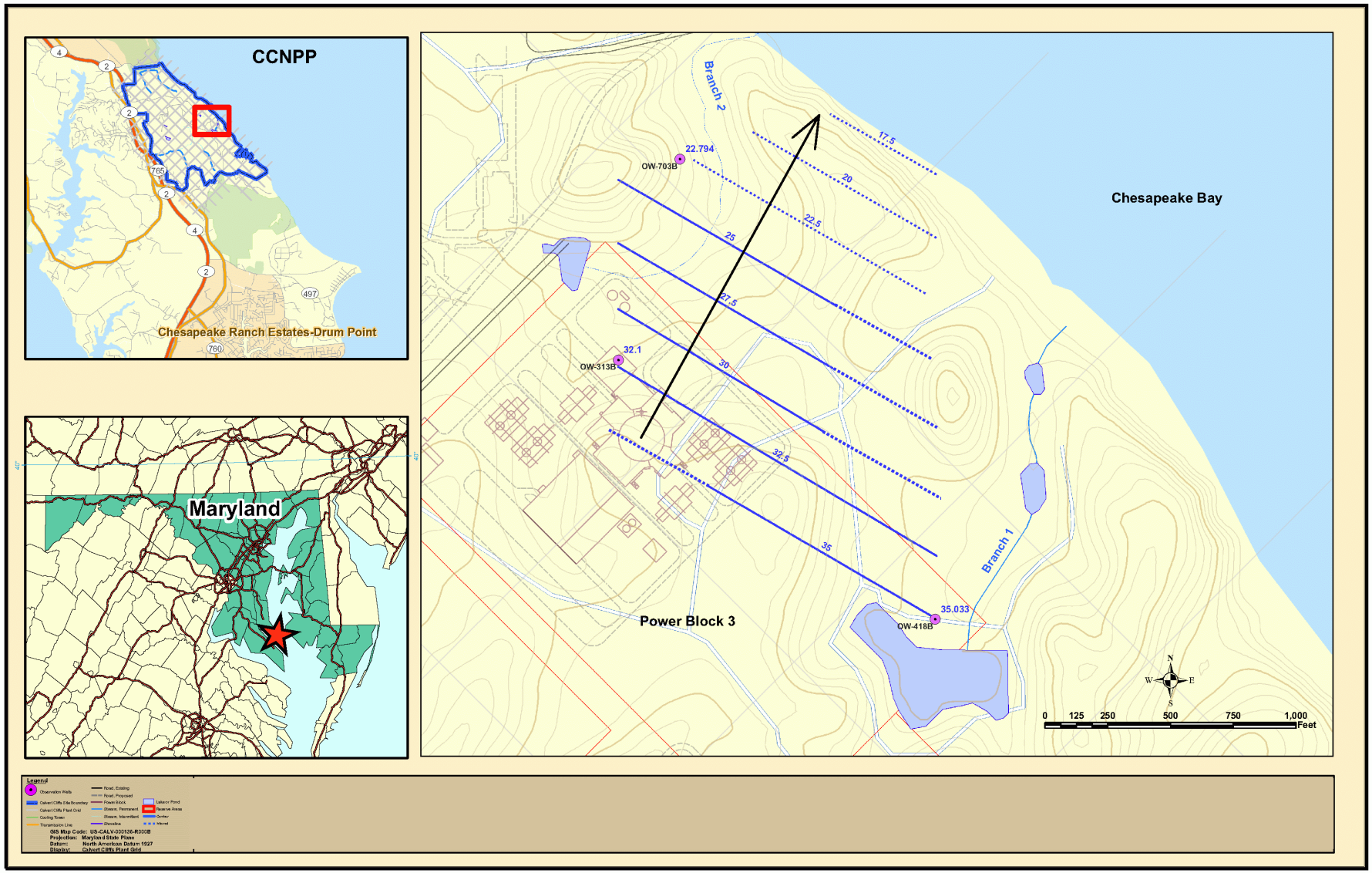

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Figure 2.4-84—{US EPA Region 3 Sole Source Aquifers}

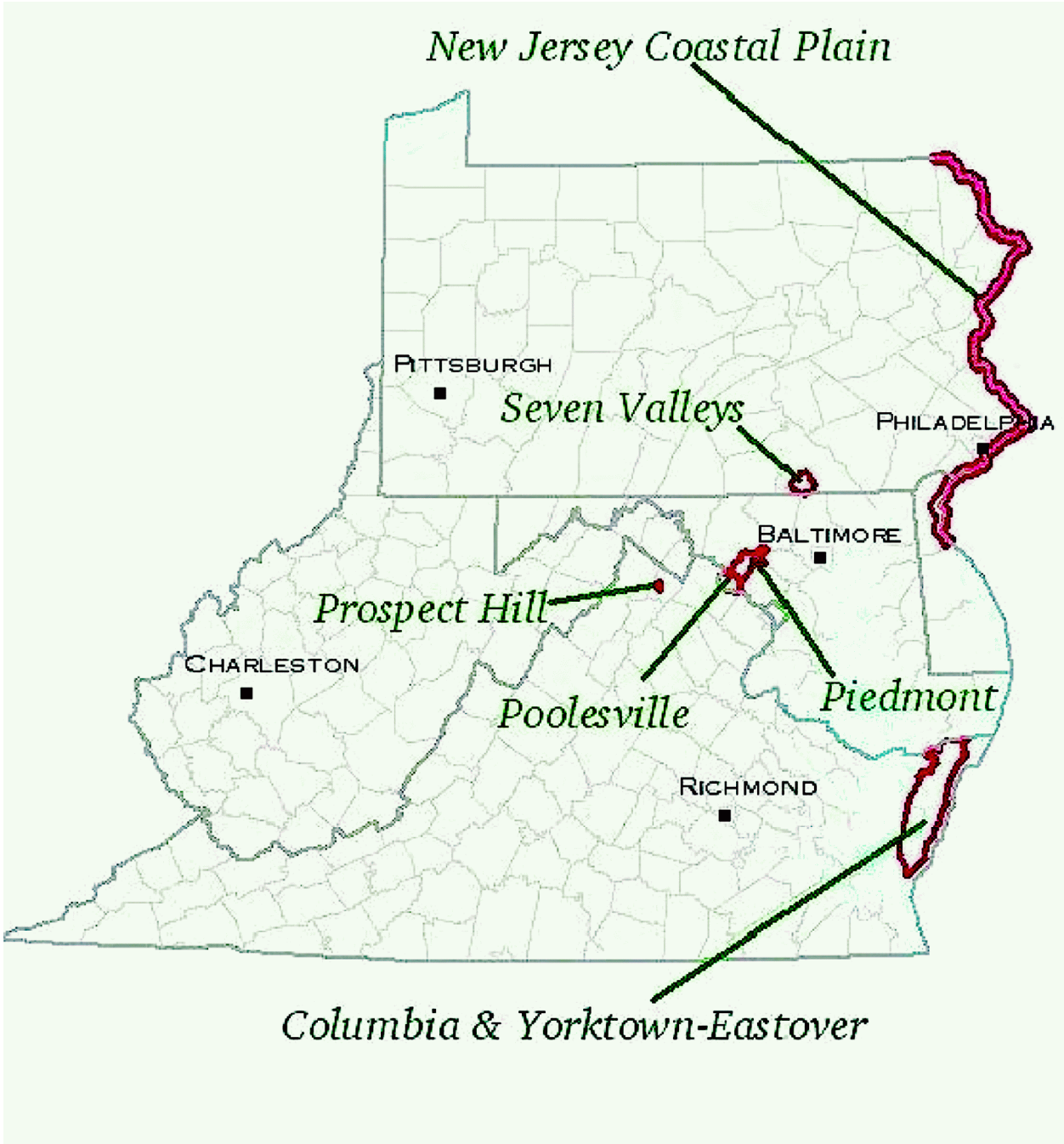

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Figure 2.4-85—{Projected Location of Nearest Off-Site Groundwater Well and Community Water Supply System}

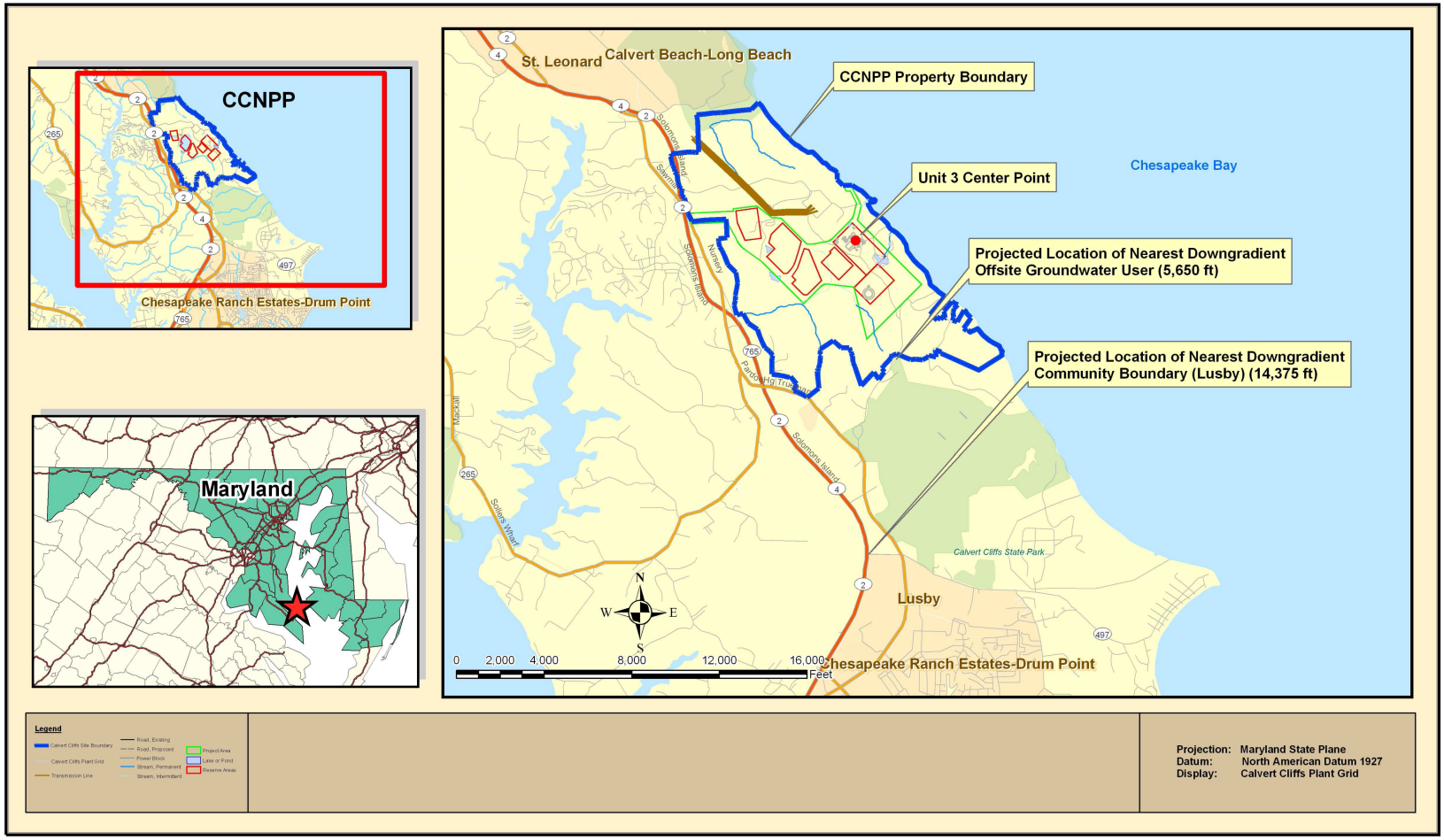

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Figure 2.4-86—{CCNPP Water Production Wells}

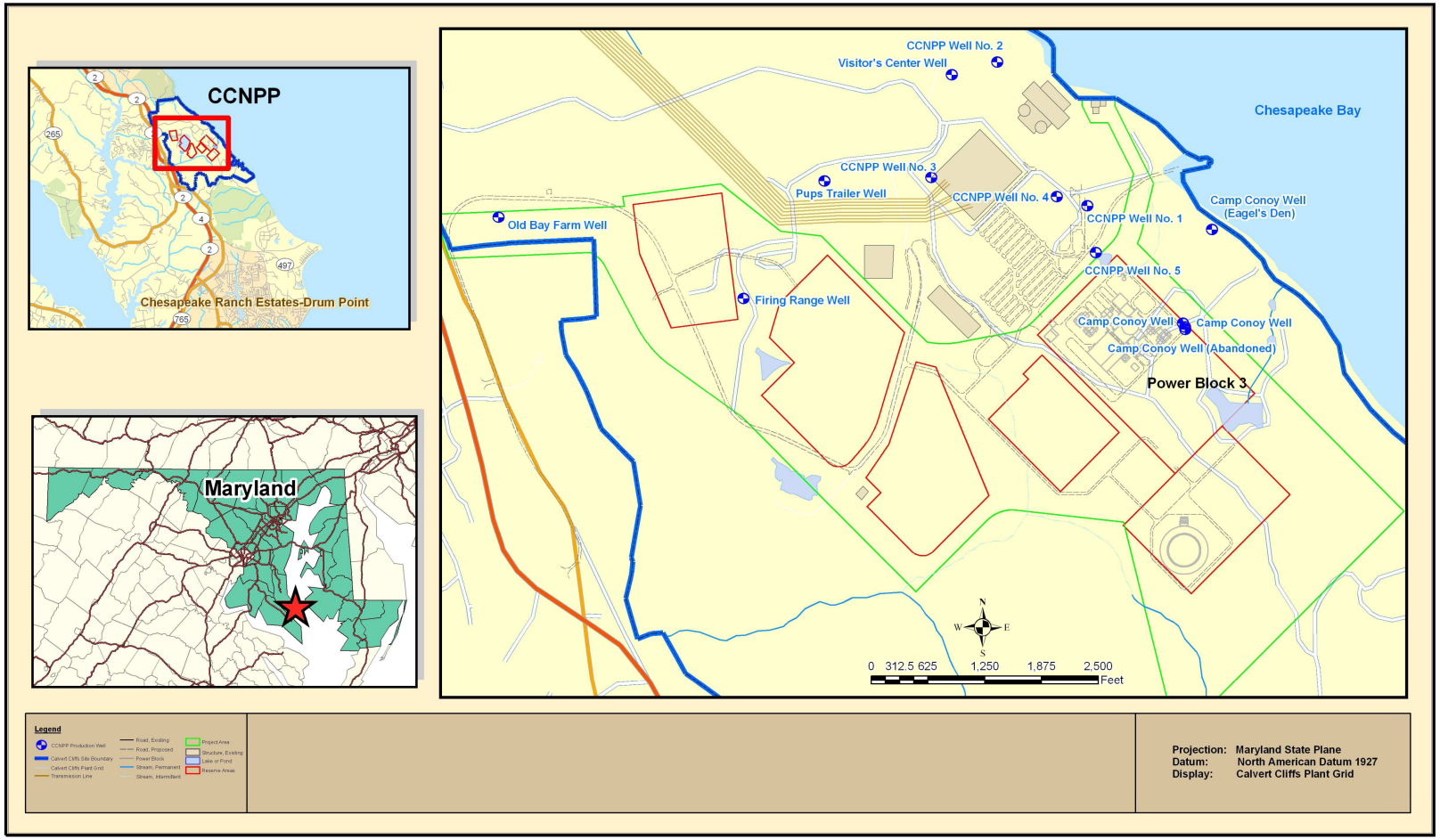

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Figure 2.4-87—{The Differences Between the Potentiometric Surfaces of the Aquia Aquifer, September 1982 and September 2003, in Southern Maryland}

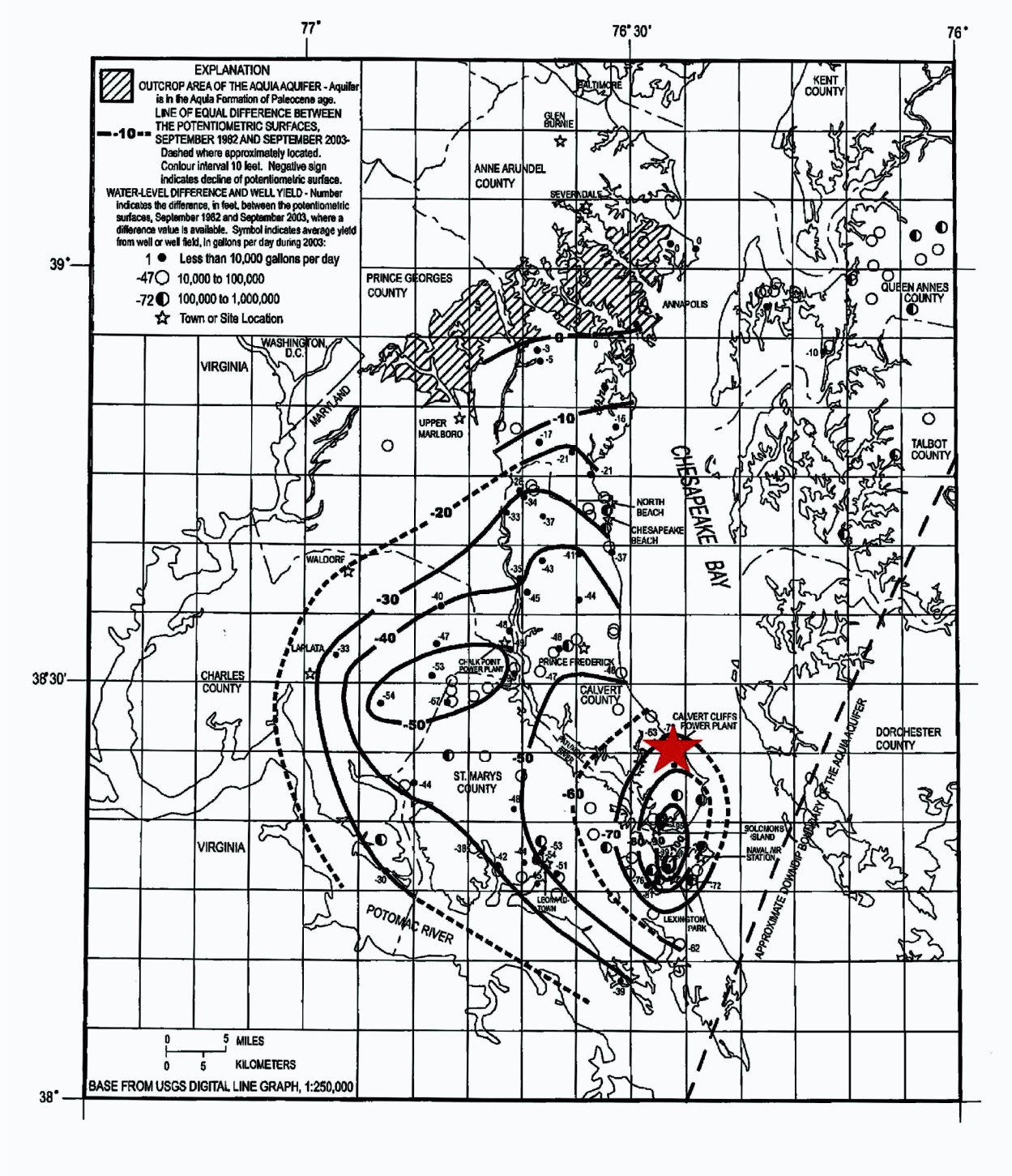

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Figure 2.4-88—{The Differences Between the Potentiometric Surfaces of the Magothy Aquifer, September 1975 and September 2003, in Southern Maryland}

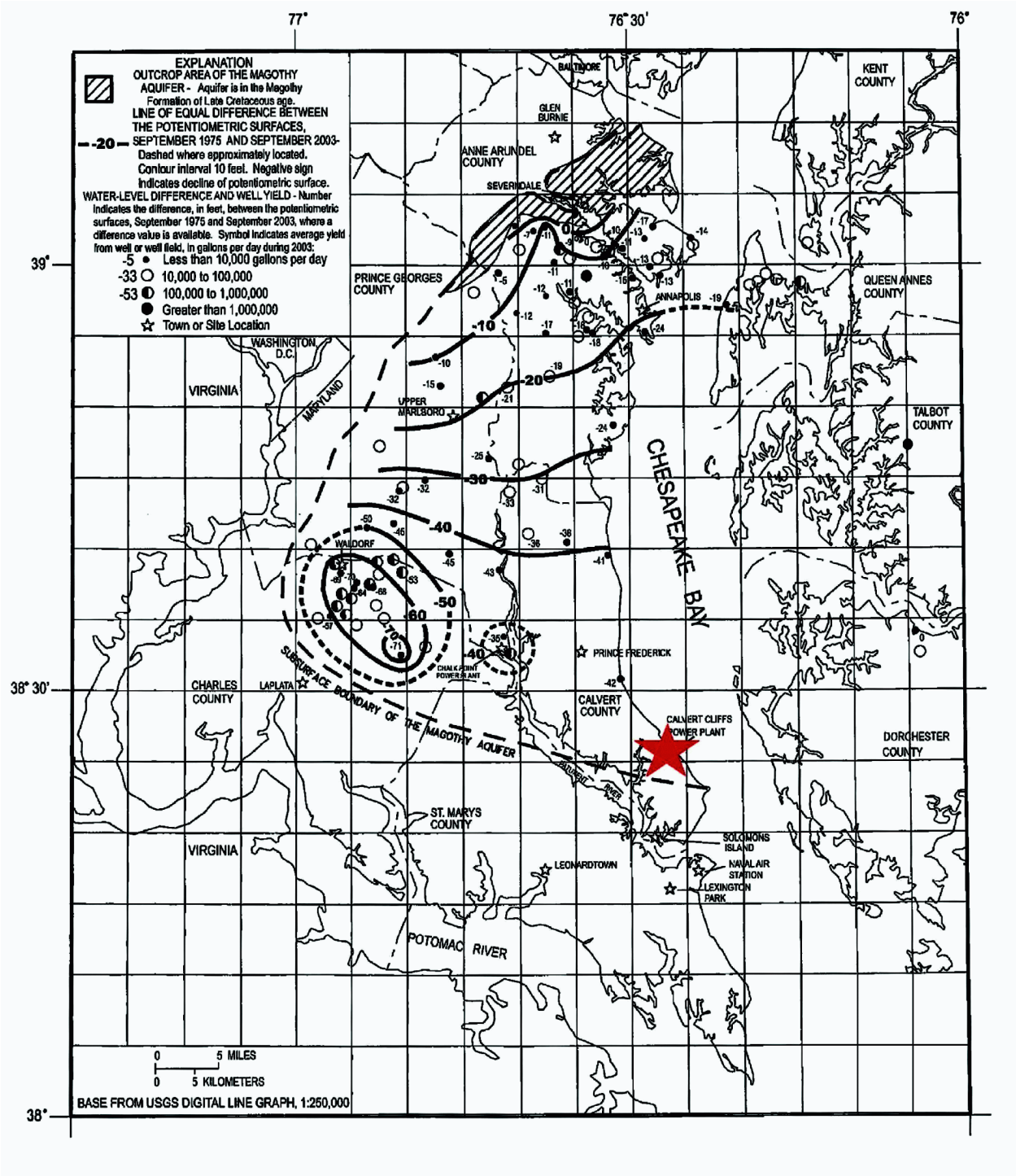

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Figure 2.4-89—{The Differences Between the Potentiometric Surfaces of the Upper Patapsco Aquifer, September 1990 and September 2003, in Southern Maryland}

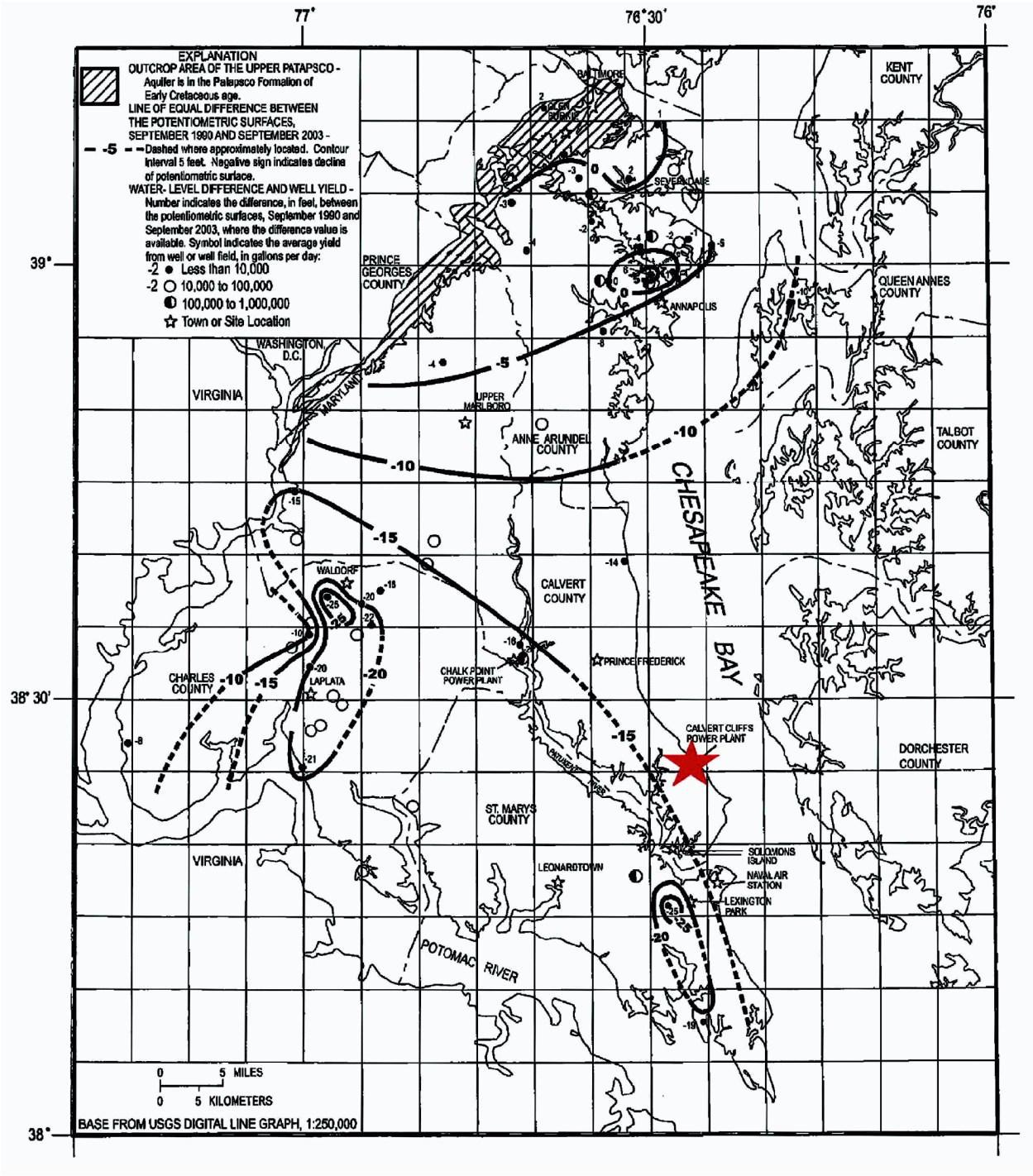

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Figure 2.4-90—{The Differences Between the Potentiometric Surfaces of the Lower Patapsco Aquifer, September 1990 and September 2003, in Southern Maryland}

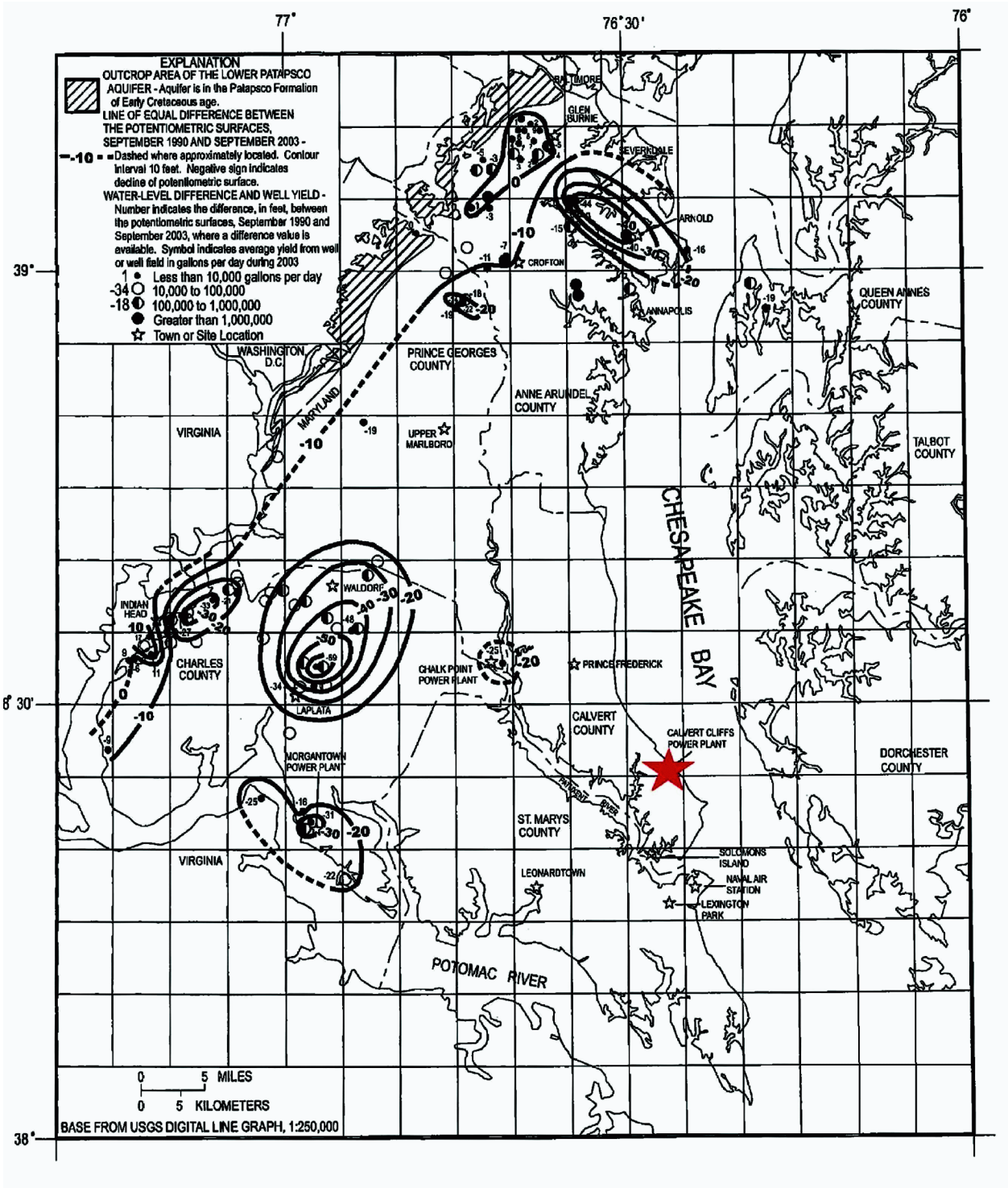

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Figure 2.4-91—{Calvert County Ground-Water-Level Monitoring Network, Location of Selected Water Level Monitoring Wells}

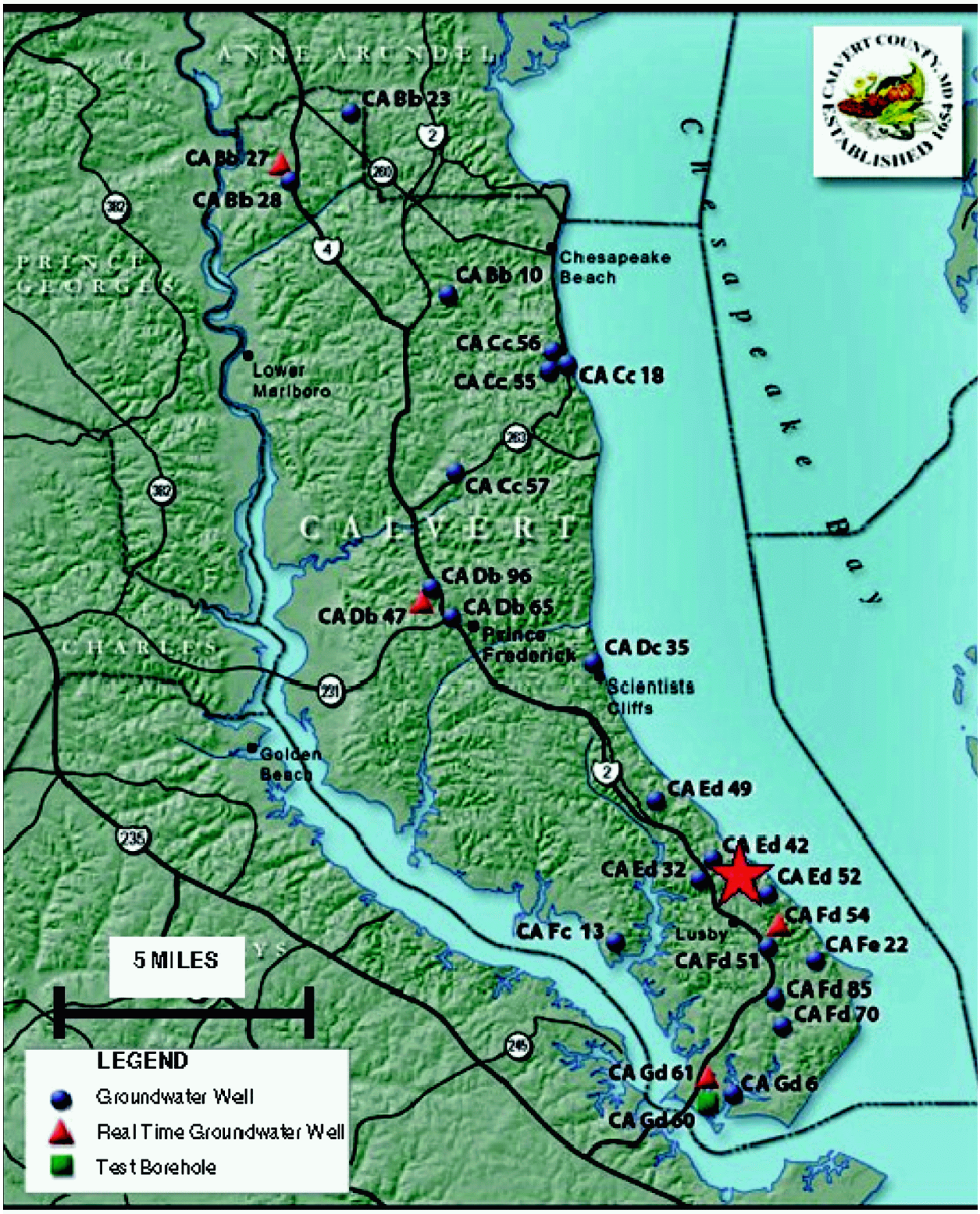

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Figure 2.4-92—{Well Hydrograph for Monitoring Well CA Fd 51 Screened in the Piney Point - Nanjemoy Aquifer at Calvert Cliffs State Park}

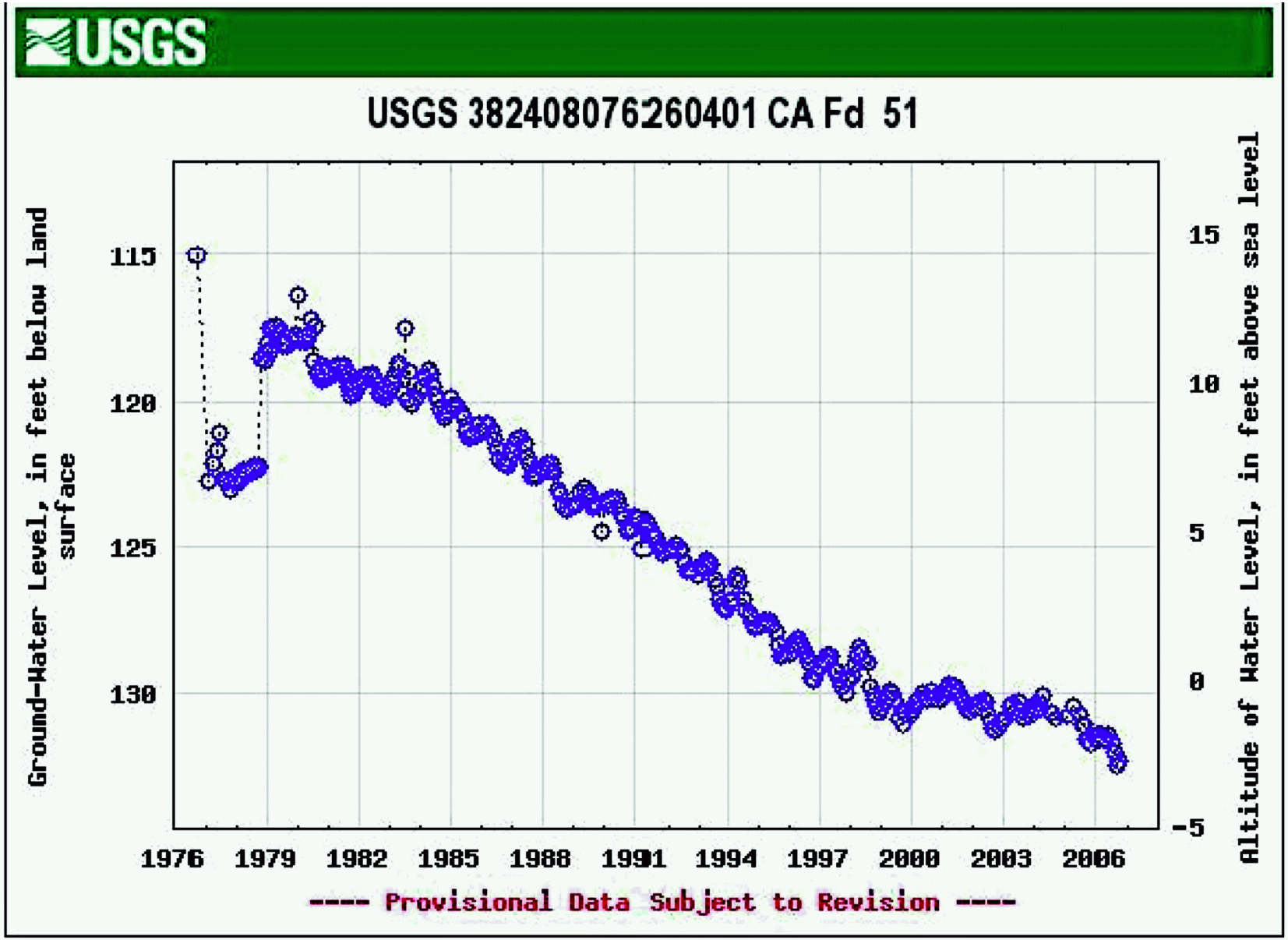

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Figure 2.4-93—{Well Hydrograph for Monitoring Well CA Ed 42 Screened in the Aquia Aquifer at CCNPP}

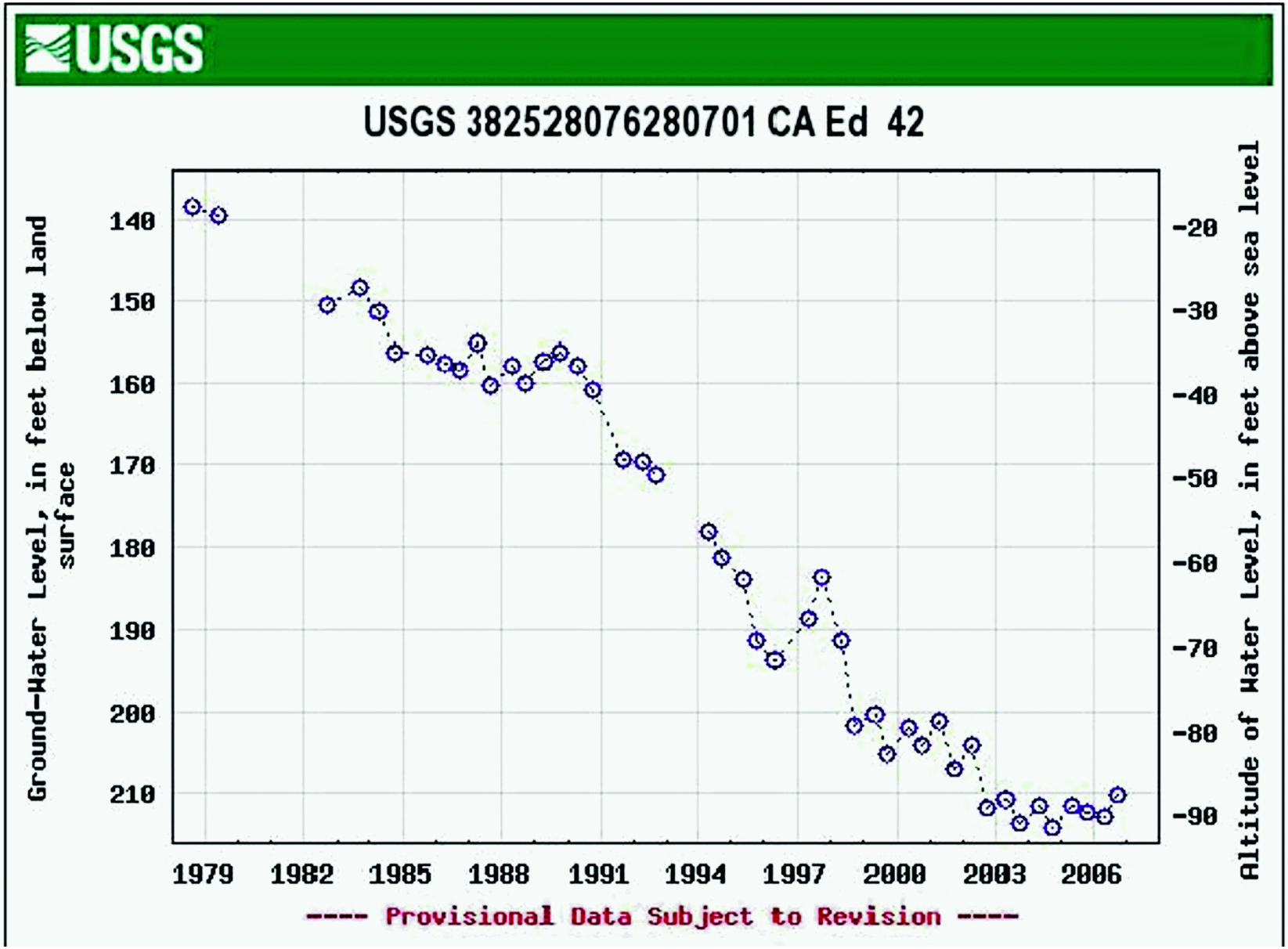

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Figure 2.4-94—{Well Hydrograph for Monitoring Well CA Dc 35 Screened in the Magothy Aquifer at Scientists Cliffs}

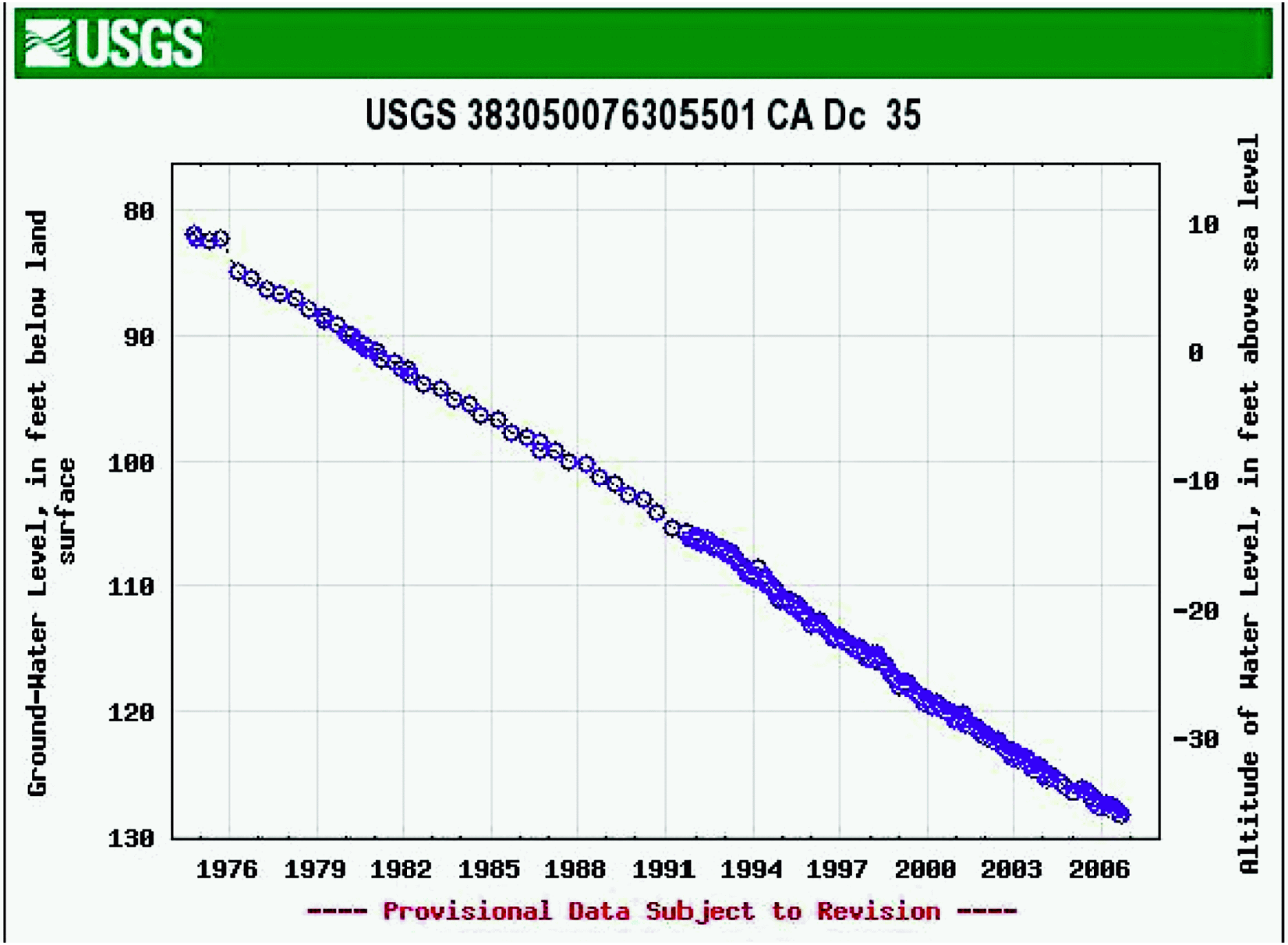

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Figure 2.4-95—{Well Hydrograph for Monitoring Well CA Db 96 Screened in the Upper Patapsco Aquifer at Prince Frederick}

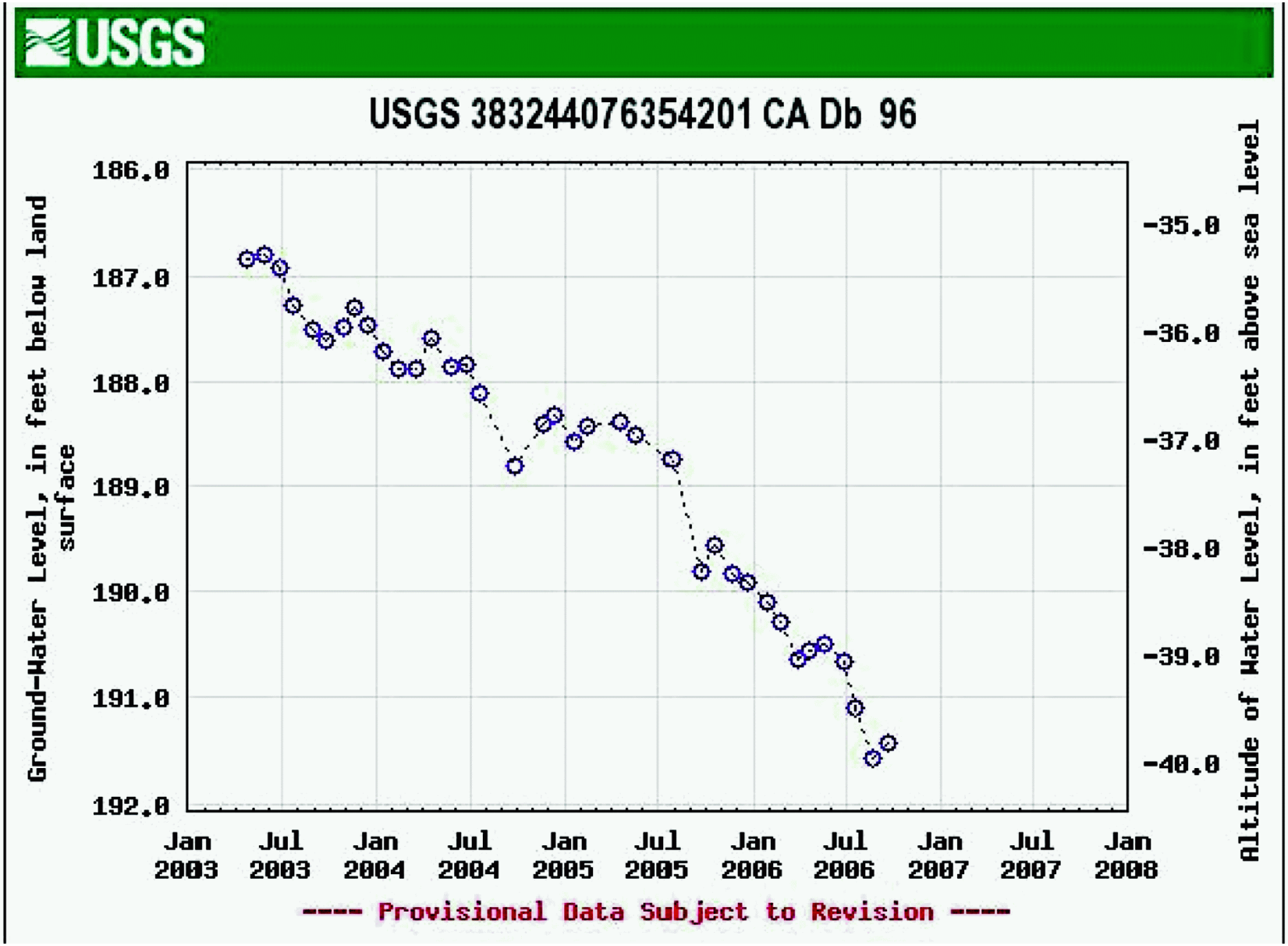

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Figure 2.4-96—{Well Hydrograph for Monitoring Well CA Fd 85 Screened in the Lower Patapsco Aquifer at Chesapeake Ranch Estates}

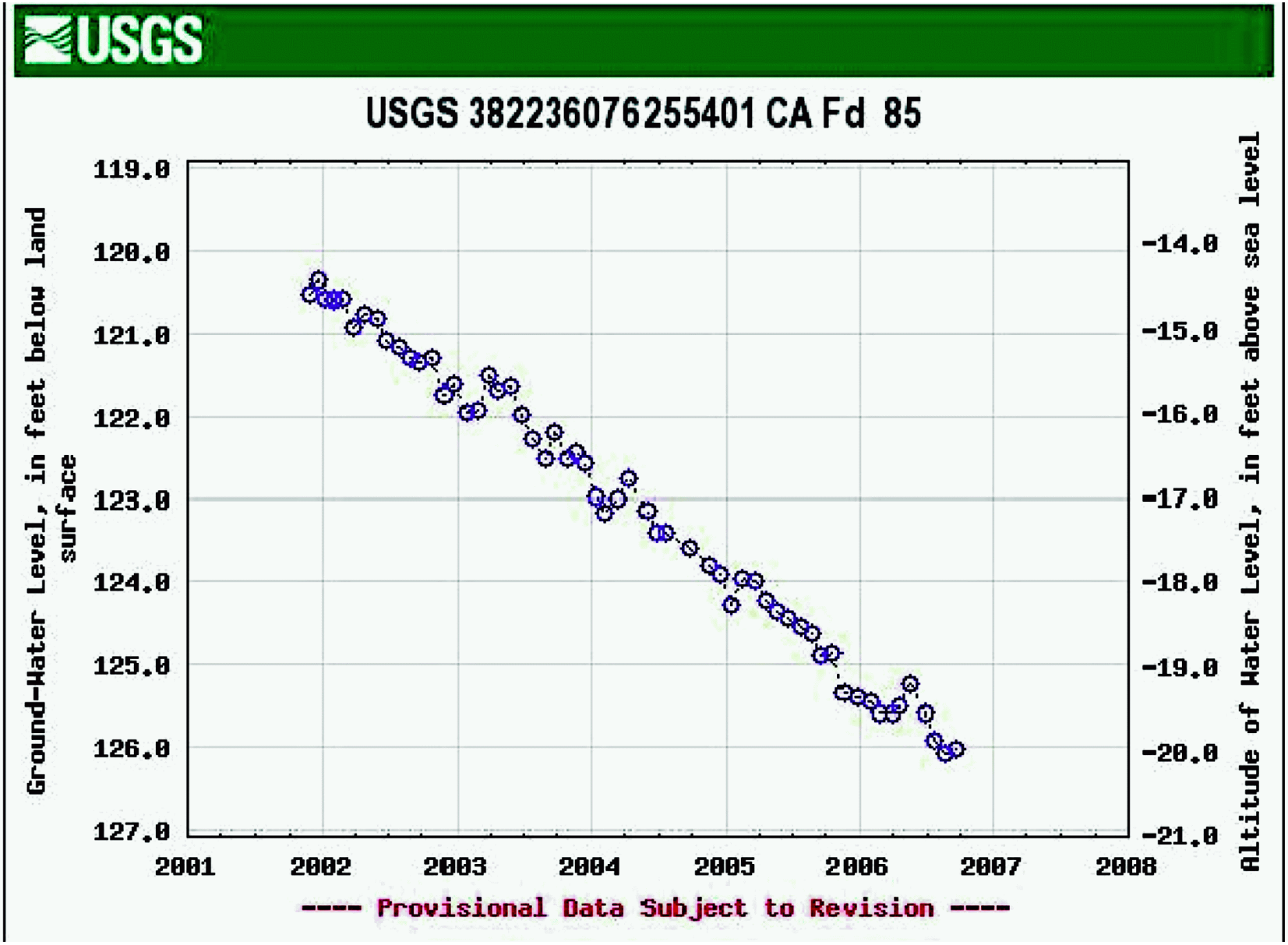

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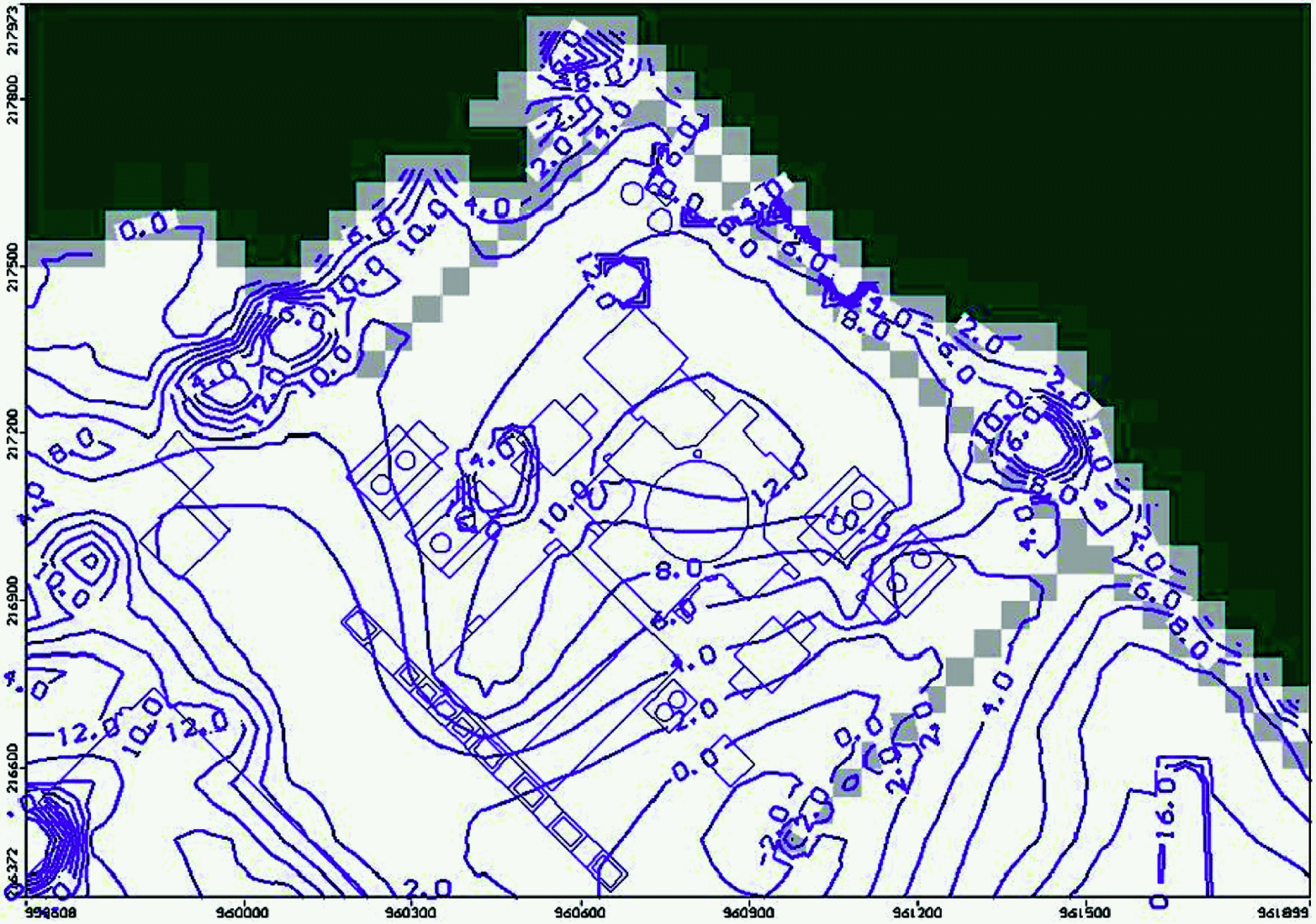
Figure 2.4-97—{Modeled Post-Construction Depth to Surficial Aquifer Water Table Around Power Block 3}



Note: Units are Feet below grade level

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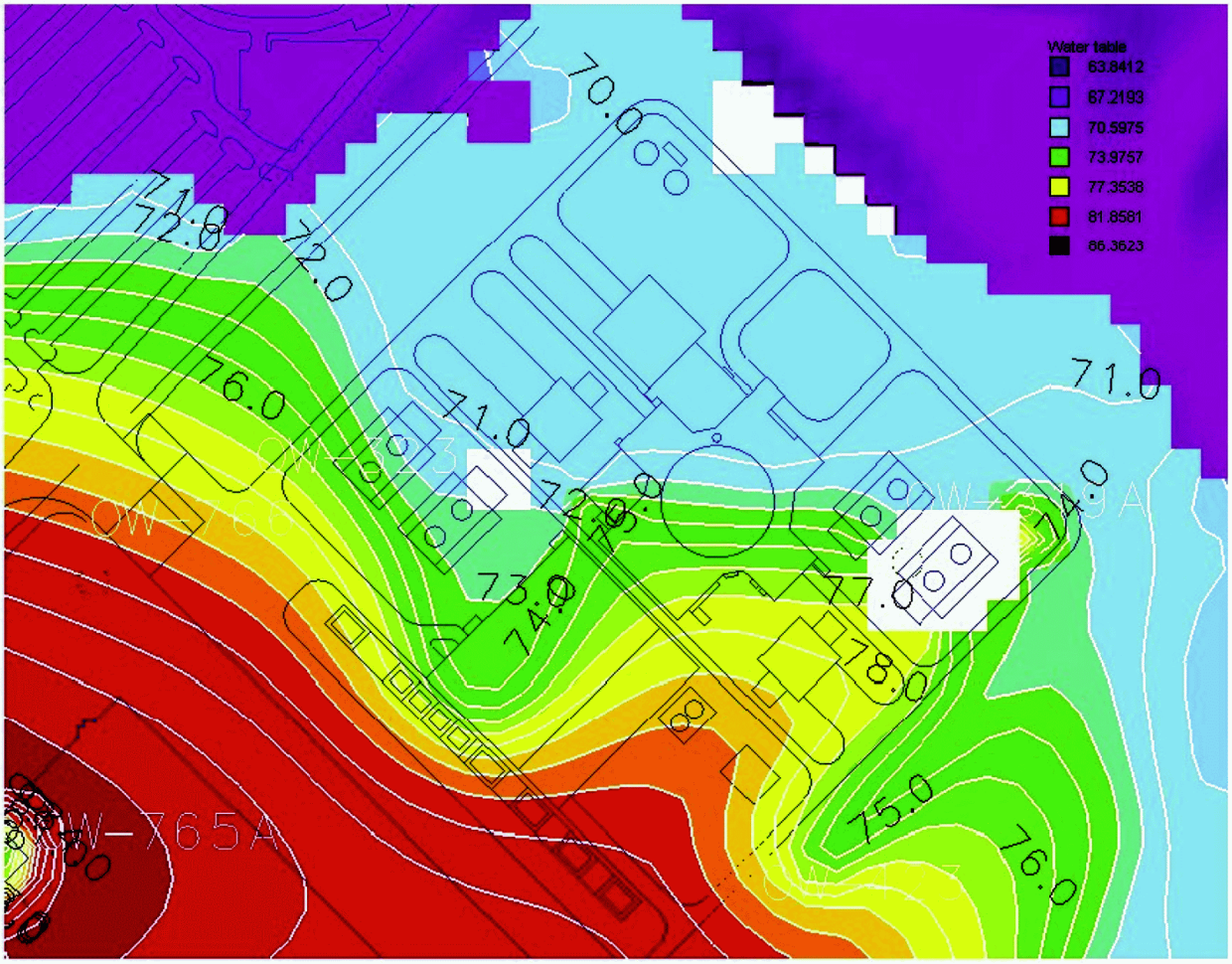
Figure 2.4-98—{Modeled Post-Construction Elevation of the Surficial Aquifer Water Table Around Power Block 3}



Notes:

1. **Contours are in Feet msl**
2. **Water Table is below base of the Surficial Aquifer at cells shown in "white"**

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Figure 2.4-99—{Water Table Elevation Map and Groundwater Flow Direction for the Surficial Aquifer, June 2007}

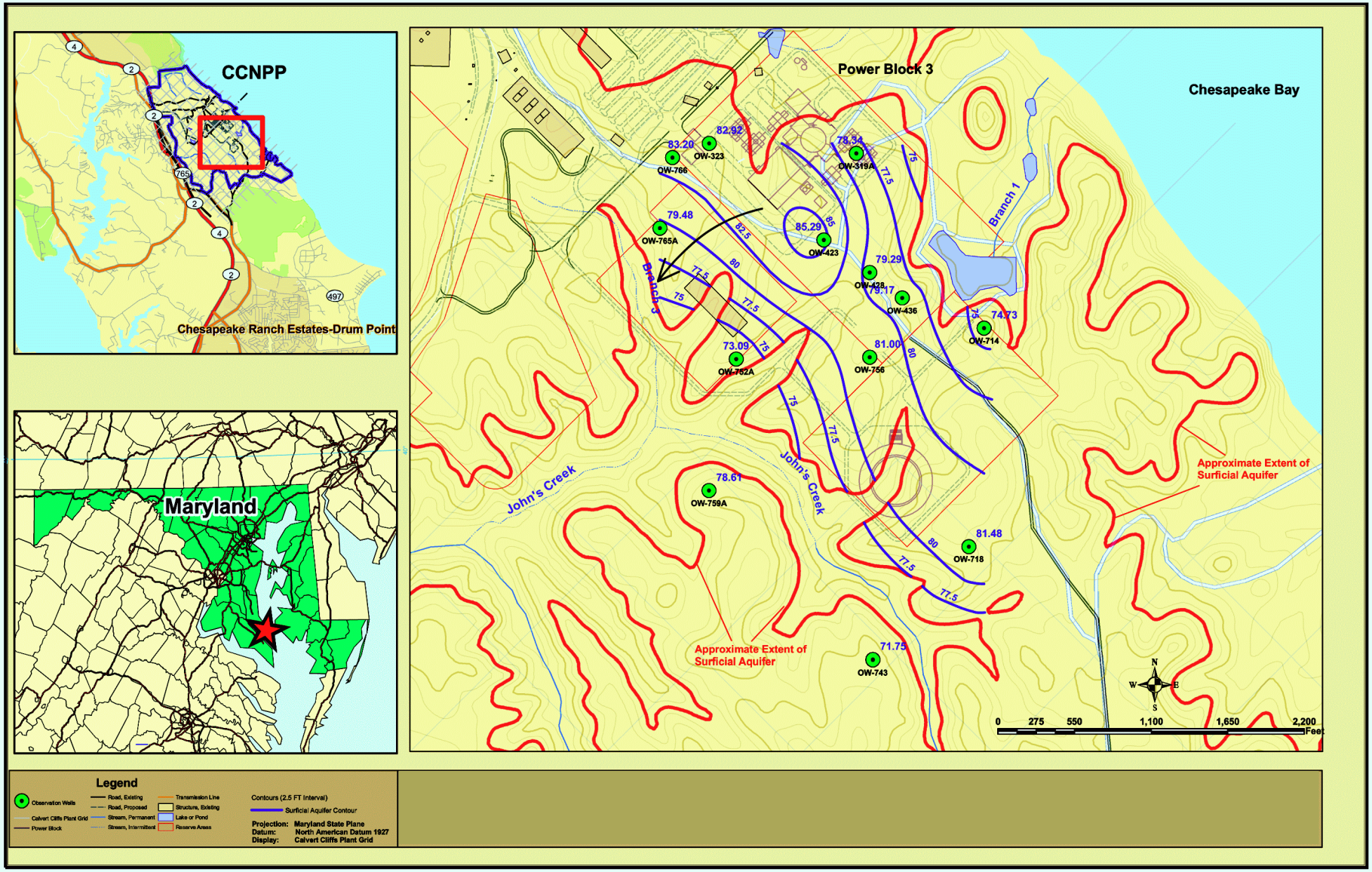

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Figure 2.4-100—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, June 2007}

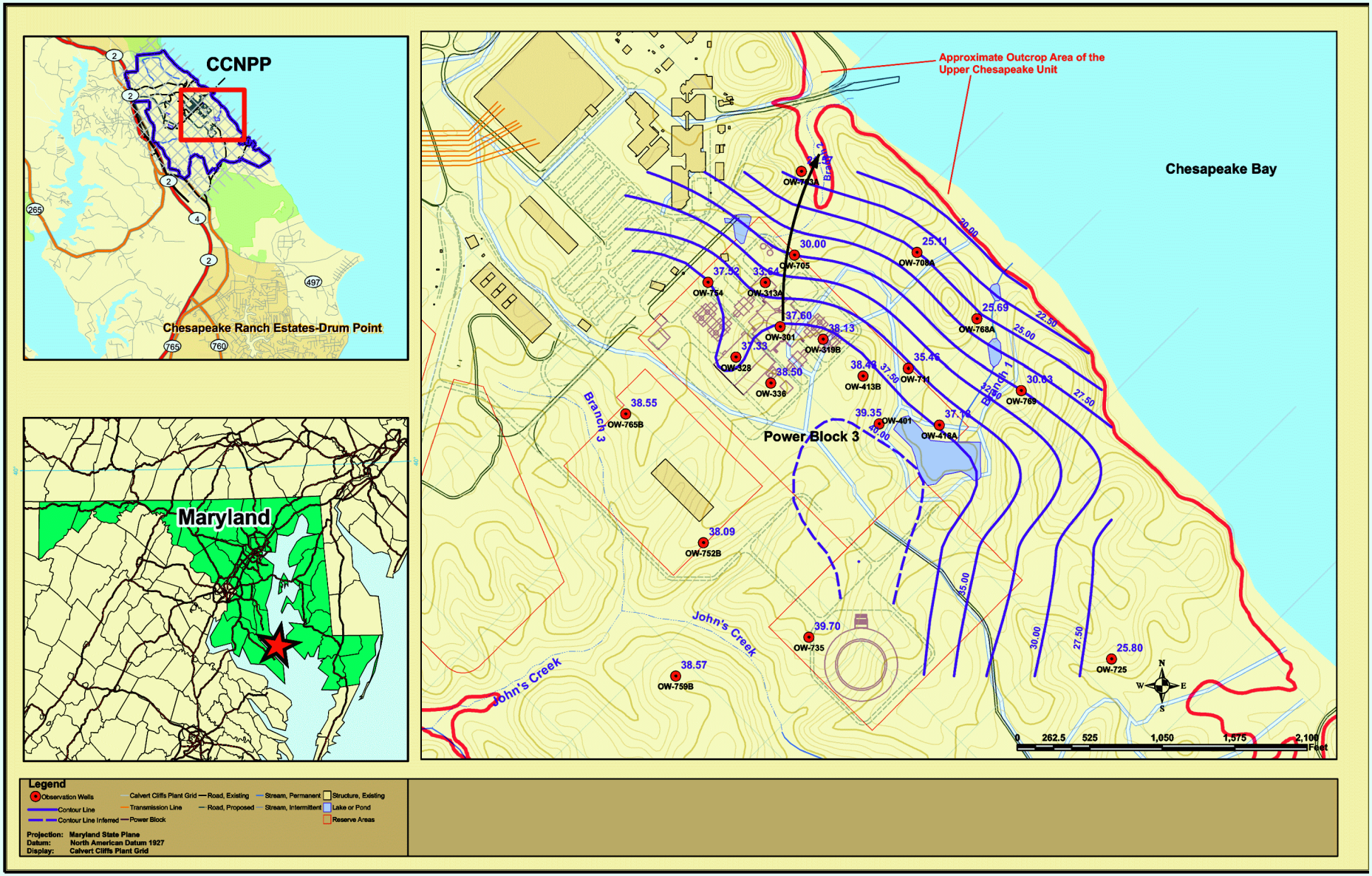

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Figure 2.4-101—{Potentiometric Surface Elecation Map and Groundwater Flow Directions for the Lower Chesapeake Unit, June 2007}

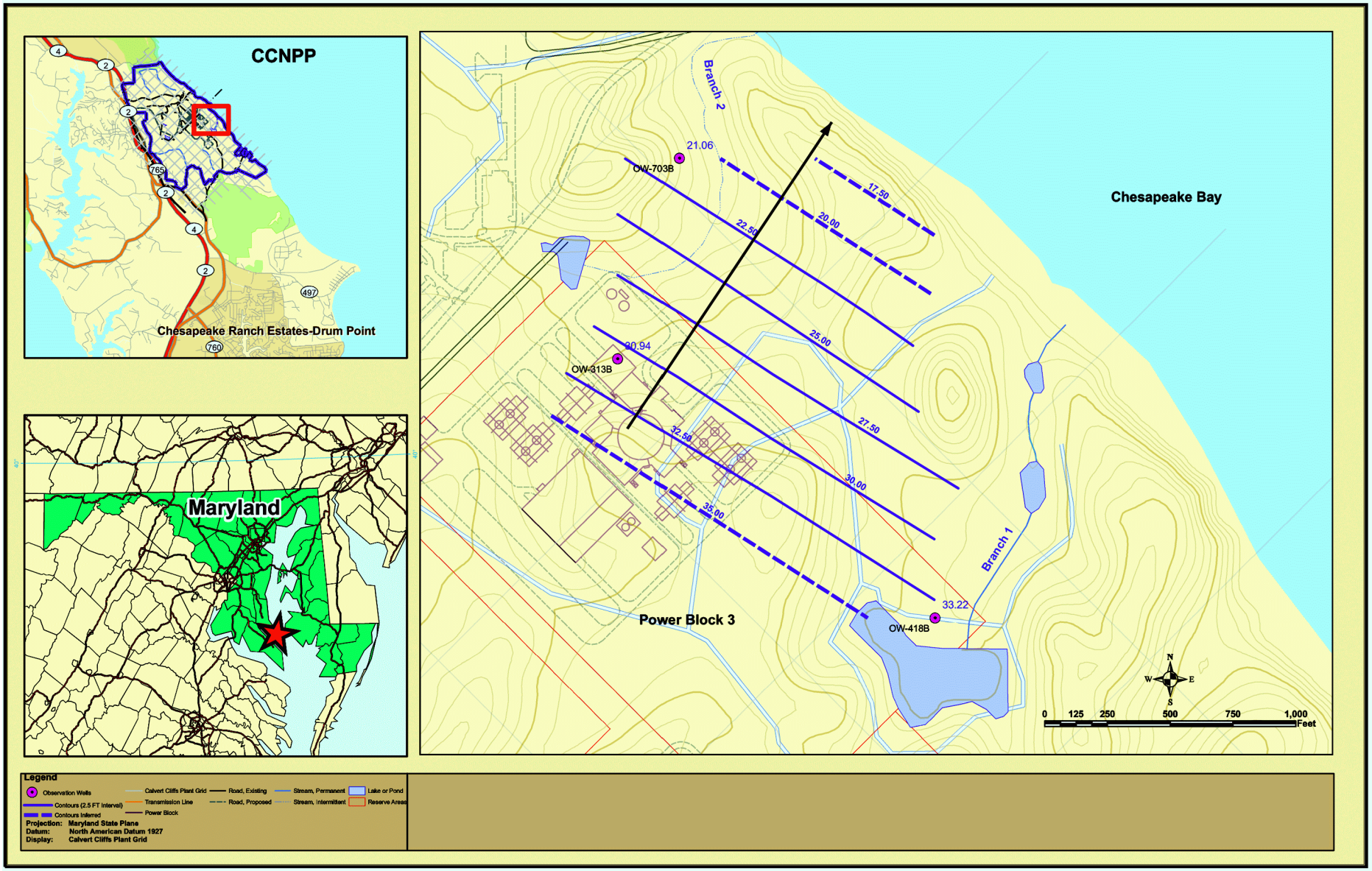

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Figure 2.4-102—{Upper Chesapeake Unit Flow Direction from the Nuclear Auxiliary Building to Branch 2, July 2006}

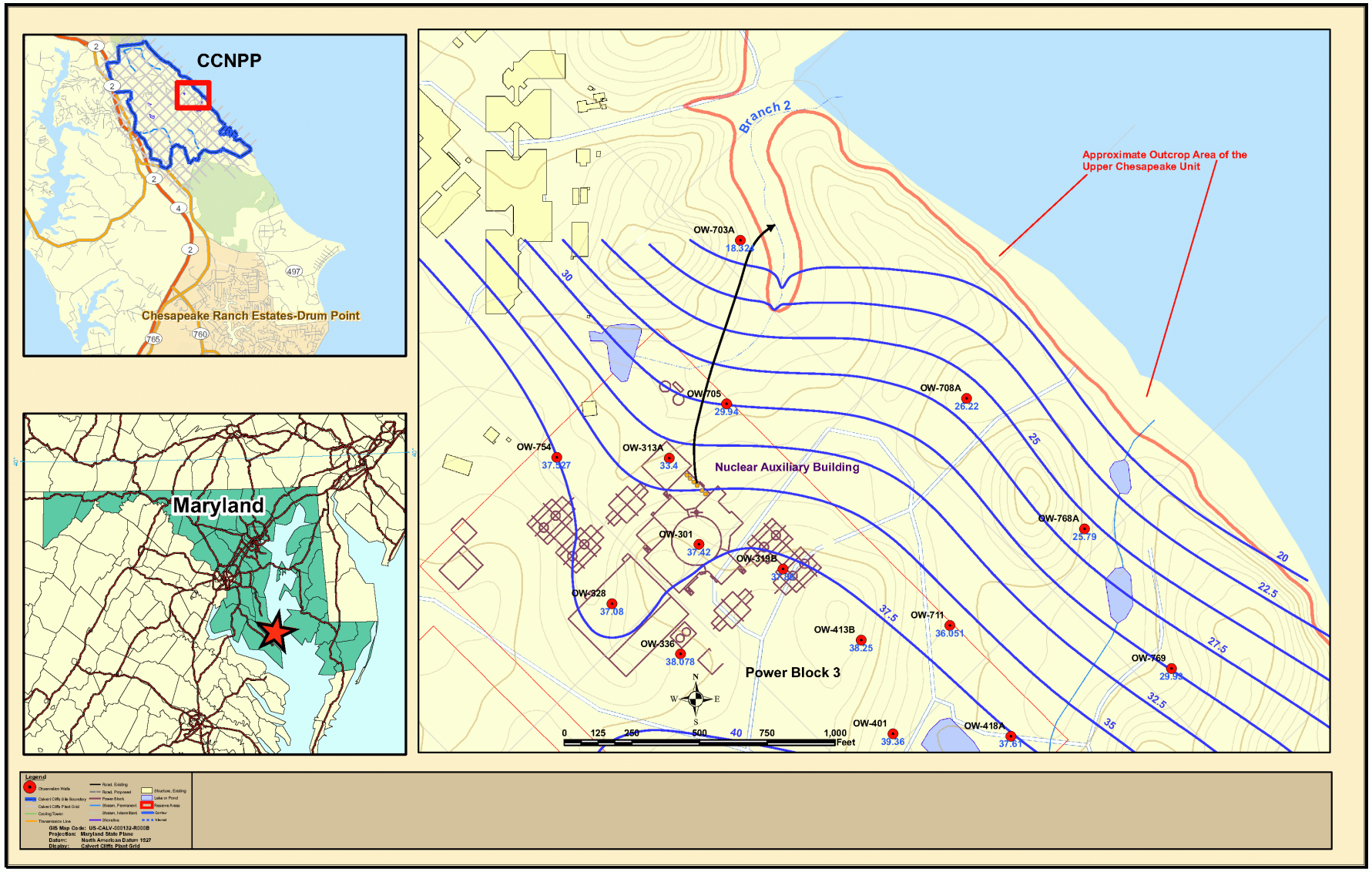

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Figure 2.4-103—{Upper Chesapeake Unit Flow Direction from the Nuclear Auxiliary Building to Branch 2, September 2006}

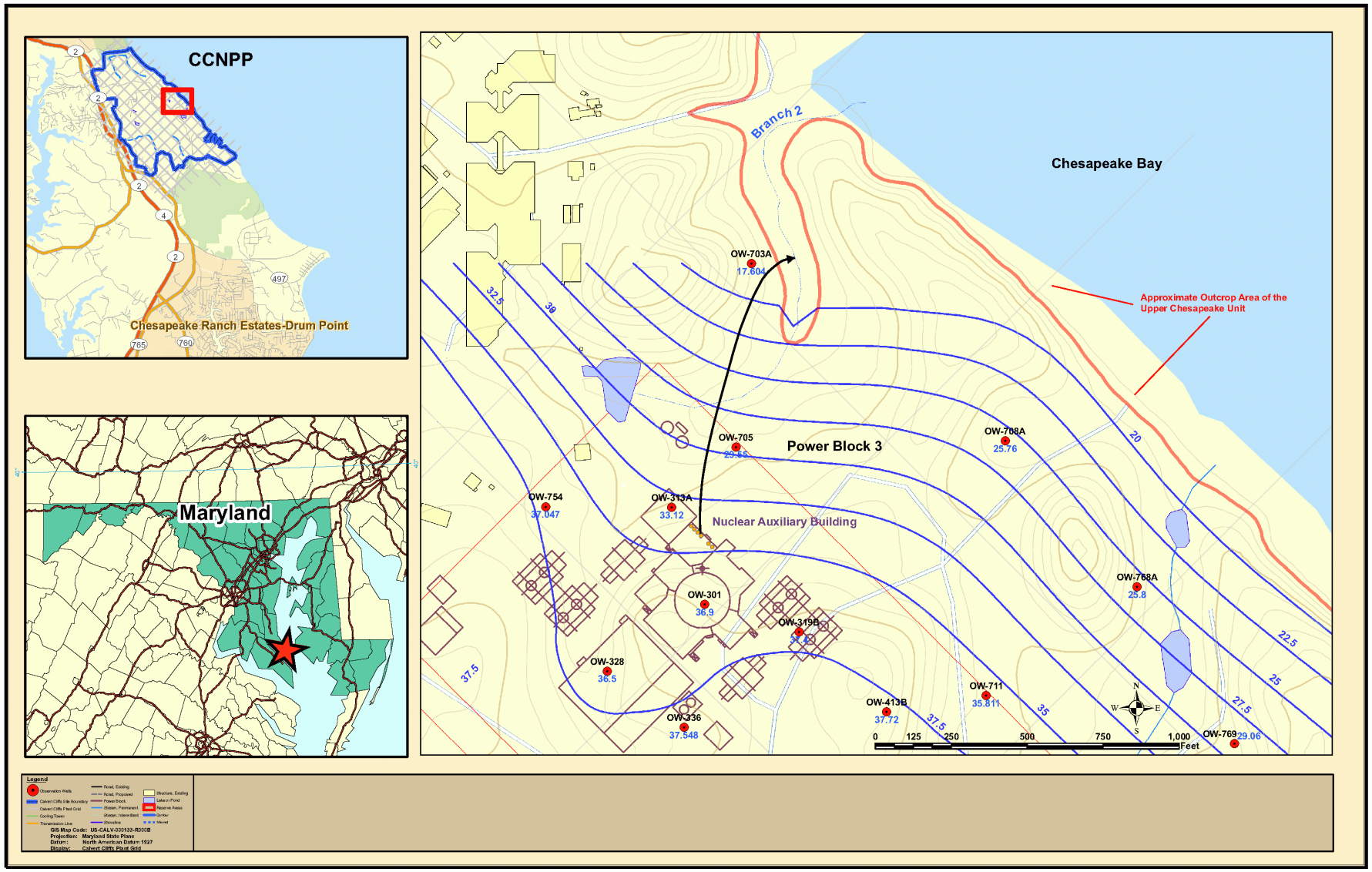

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Figure 2.4-104—{Upper Chesapeake Unit Flow Direction from the Nuclear Auxiliary Building to Branch 2, December 2006}

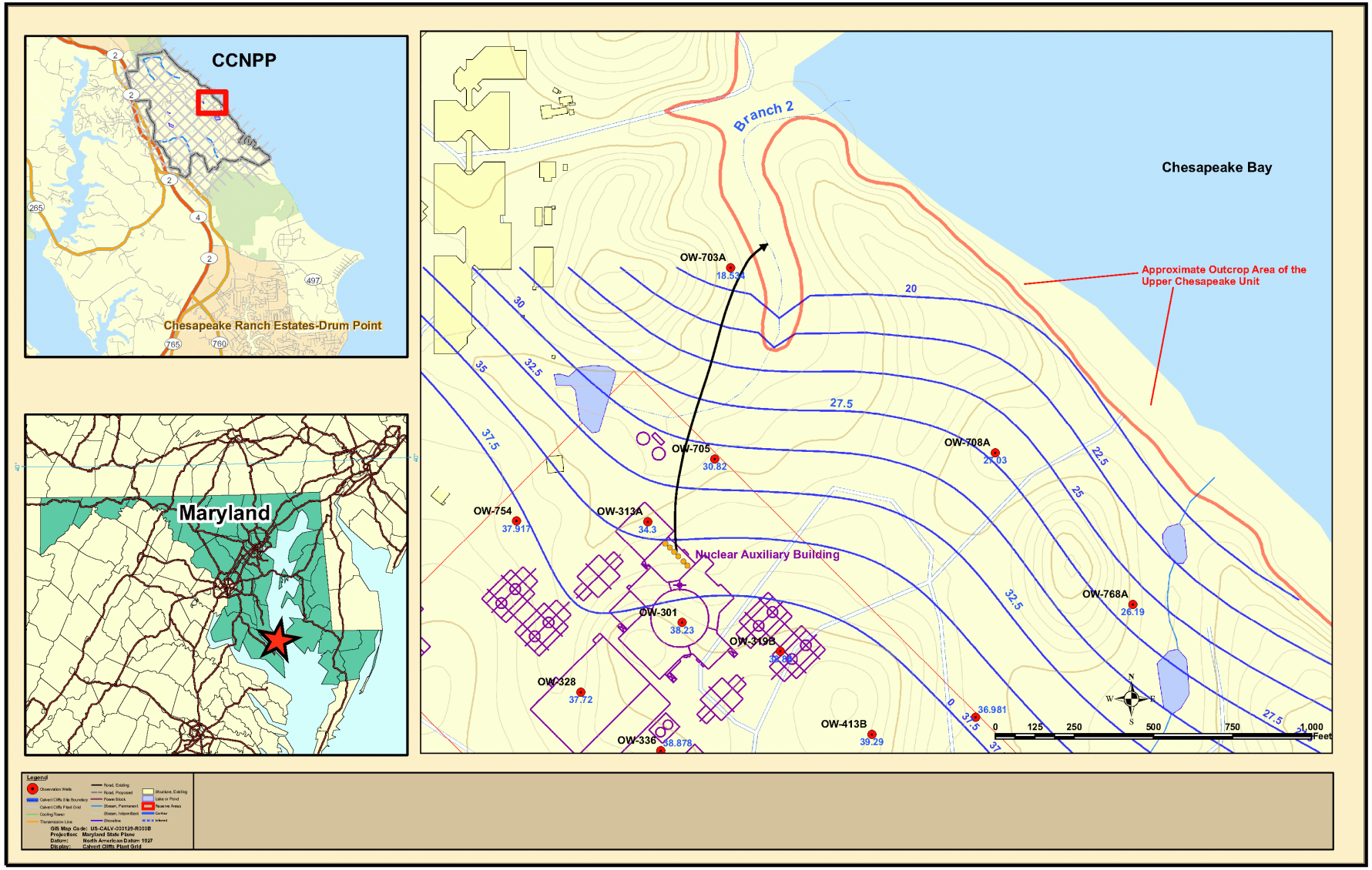

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Figure 2.4-105—{Upper Chesapeake Unit Flow Direction from the Nuclear Auxiliary Building to Branch 2, March 2007}

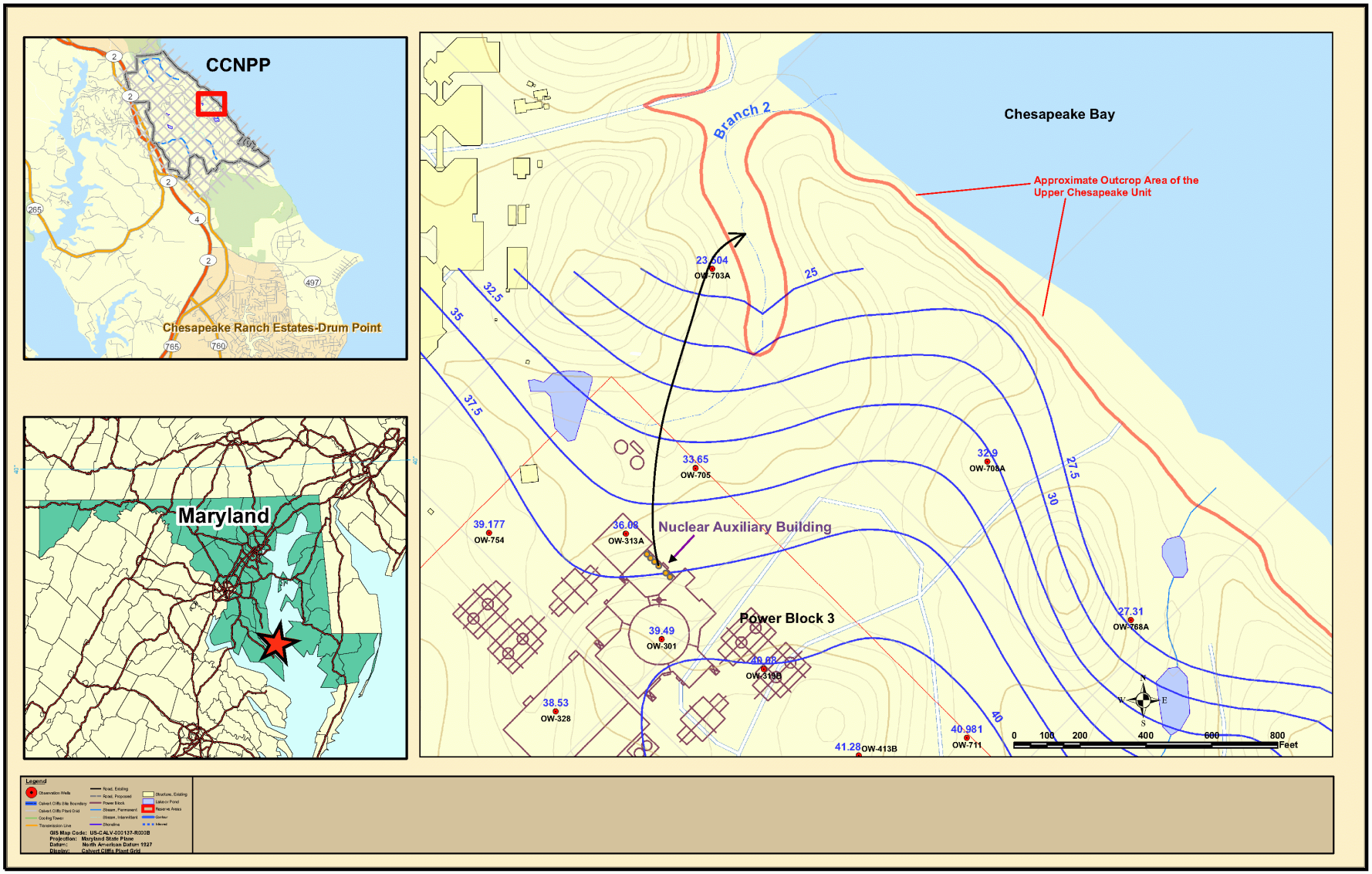

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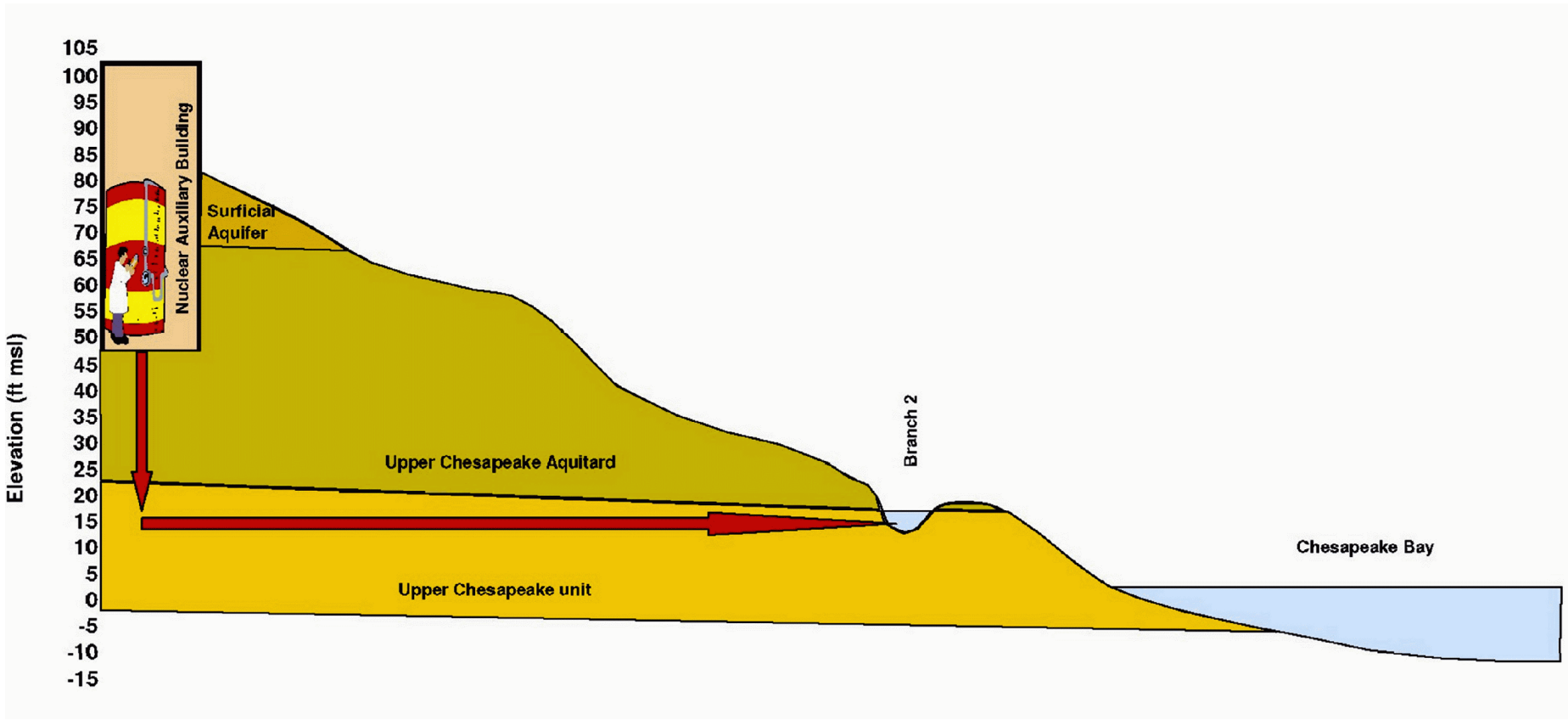
Figure 2.4-106—{Conceptual Model Transport Cross-Section}



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