Figure 2.3-48—Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, September 2006

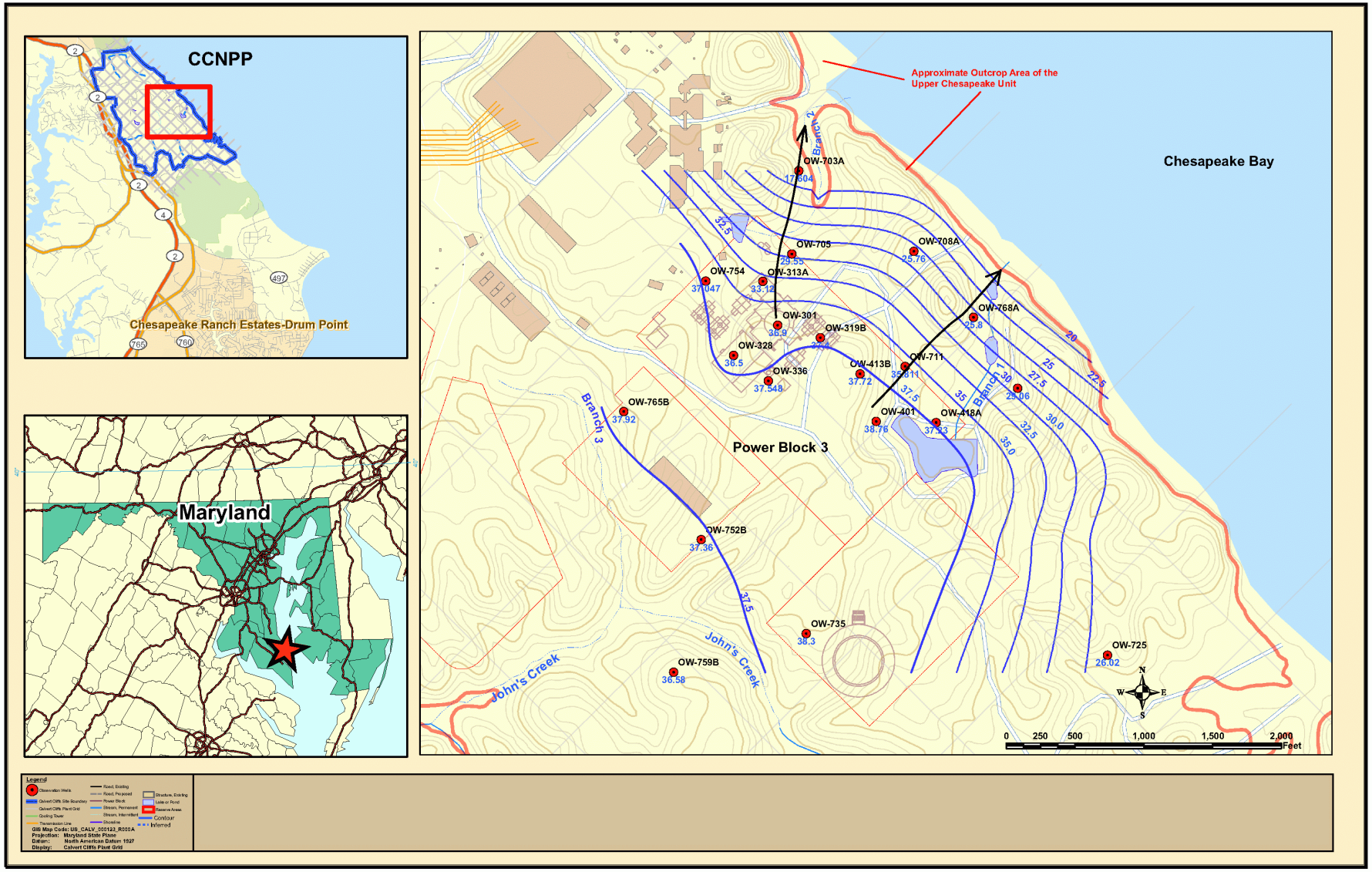

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Figure 2.3-49—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, December 2006}

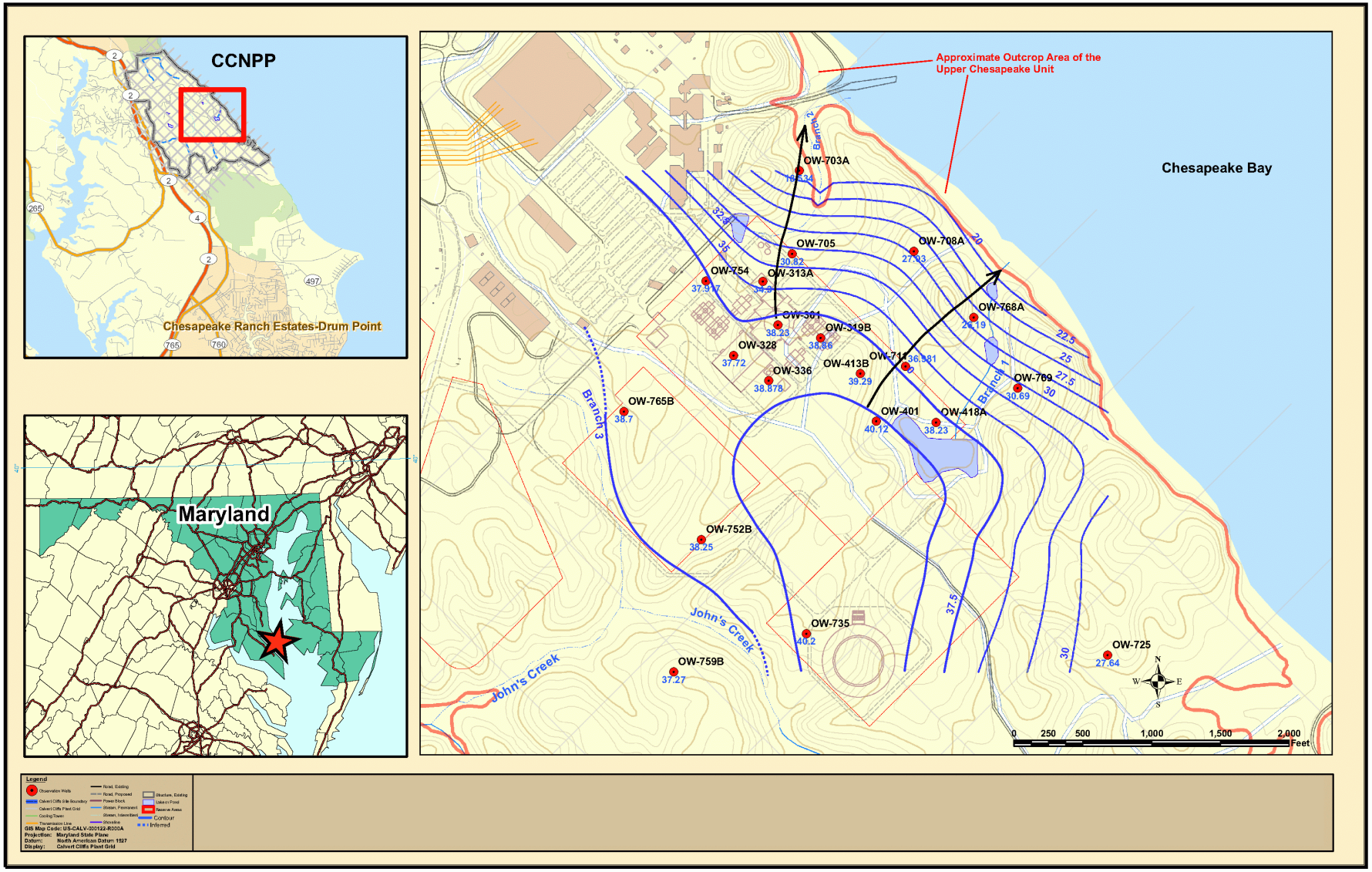

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Figure 2.3-50—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Upper Chesapeake Unit, March 2007}

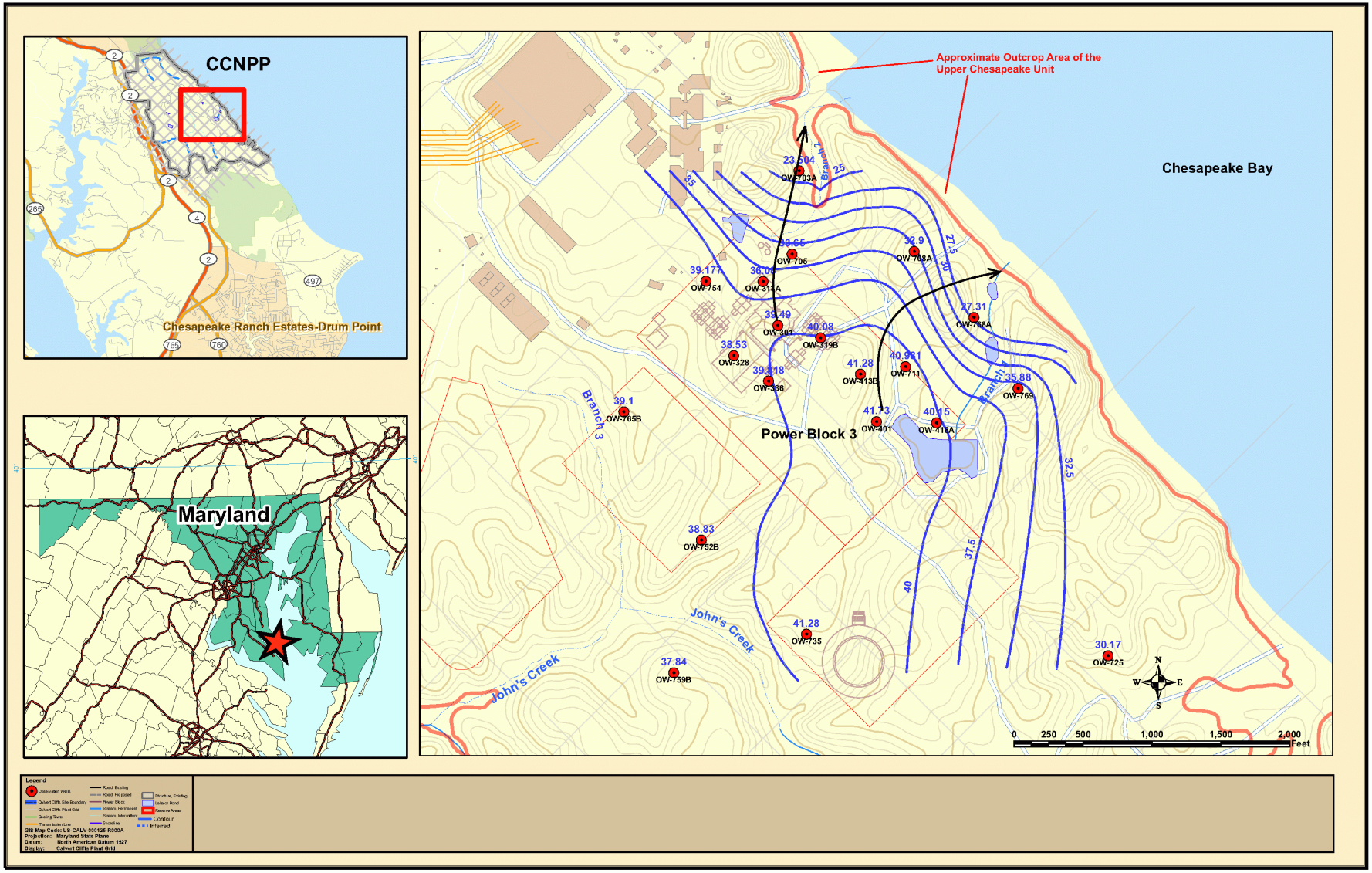

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Figure 2.3-51—{Groundwater Elevations for the Lower Chesapeake Unit, July 2006 through March 2007}

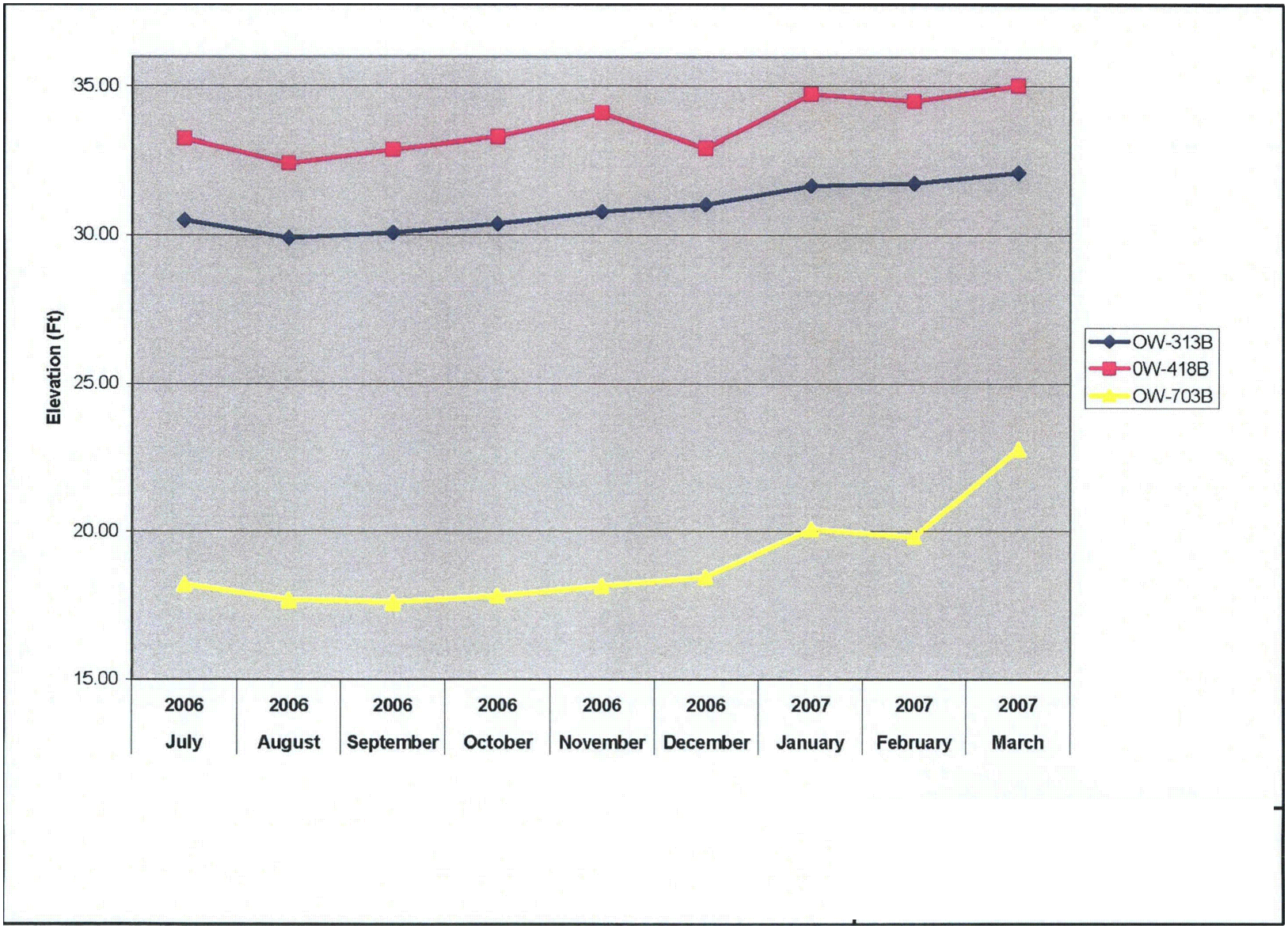

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Figure 2.3-52—Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower Chesapeake Unit, July 2006

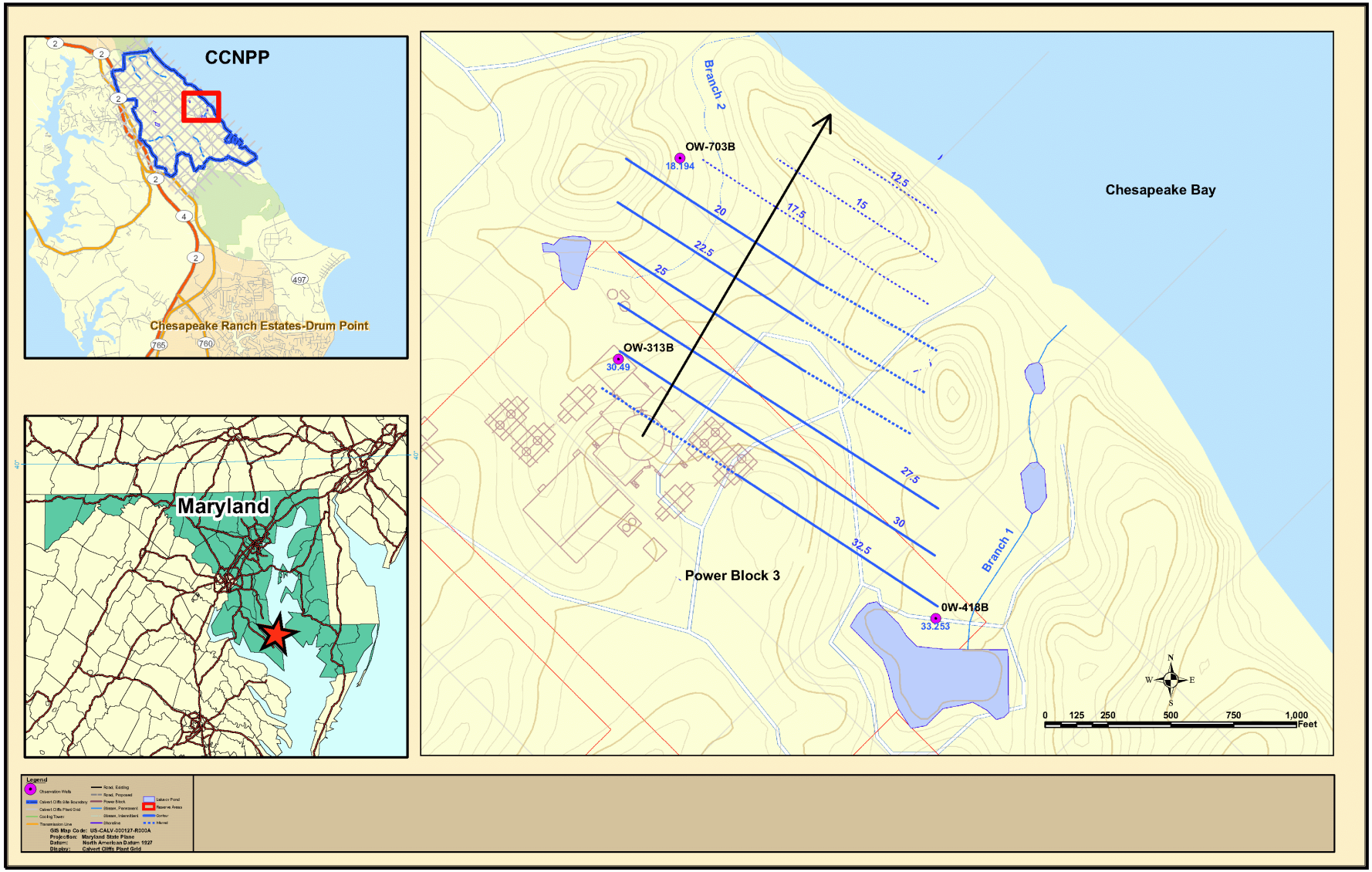

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Figure 2.3-53—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower~~Upper~~ Chesapeake Unit, September 2006}

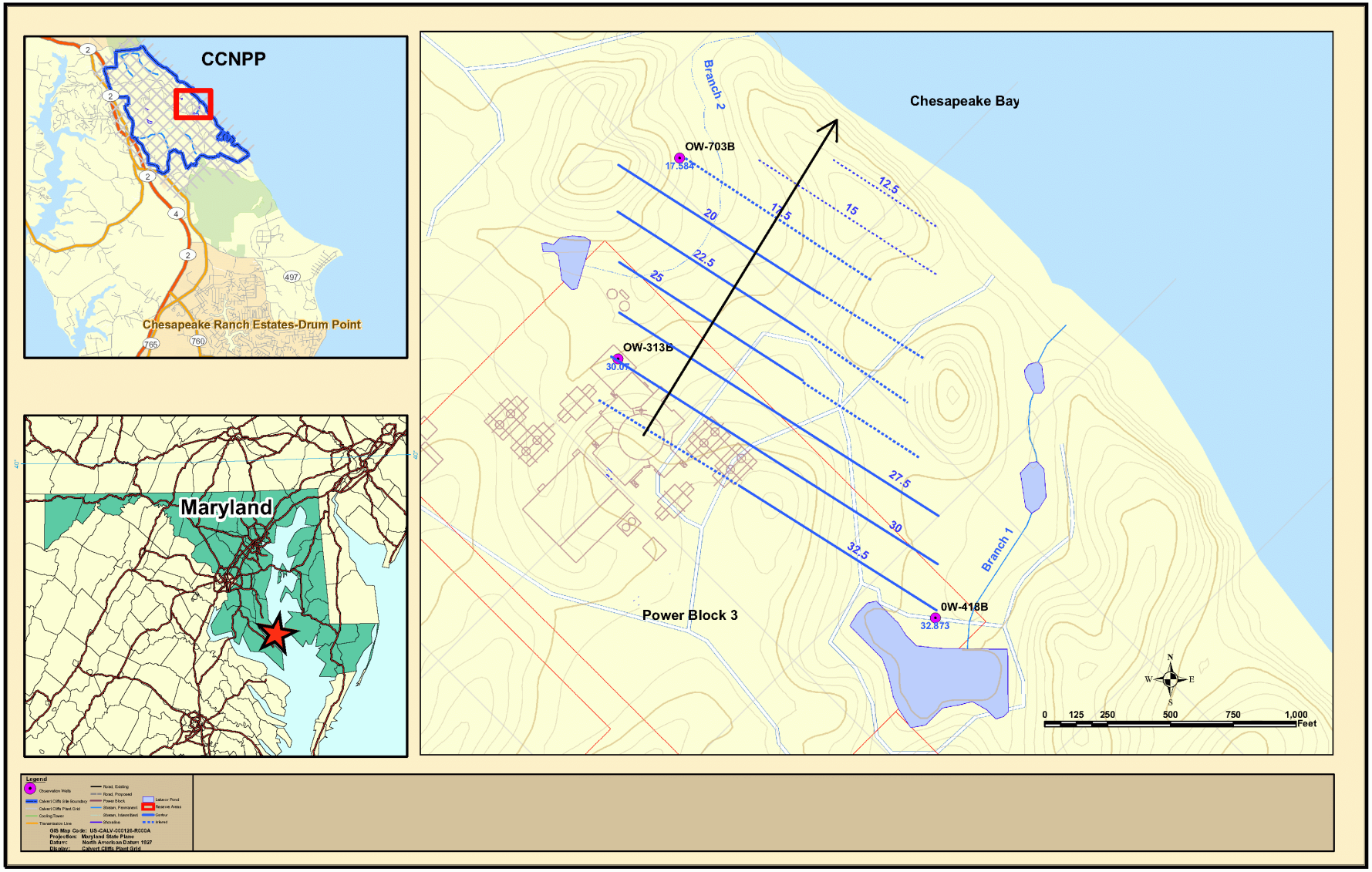

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Figure 2.3-54—{Potentiometric Surface Elevation Map and Groundwater Flow Directions for the LowerUpper Chesapeake Unit, December 2006}

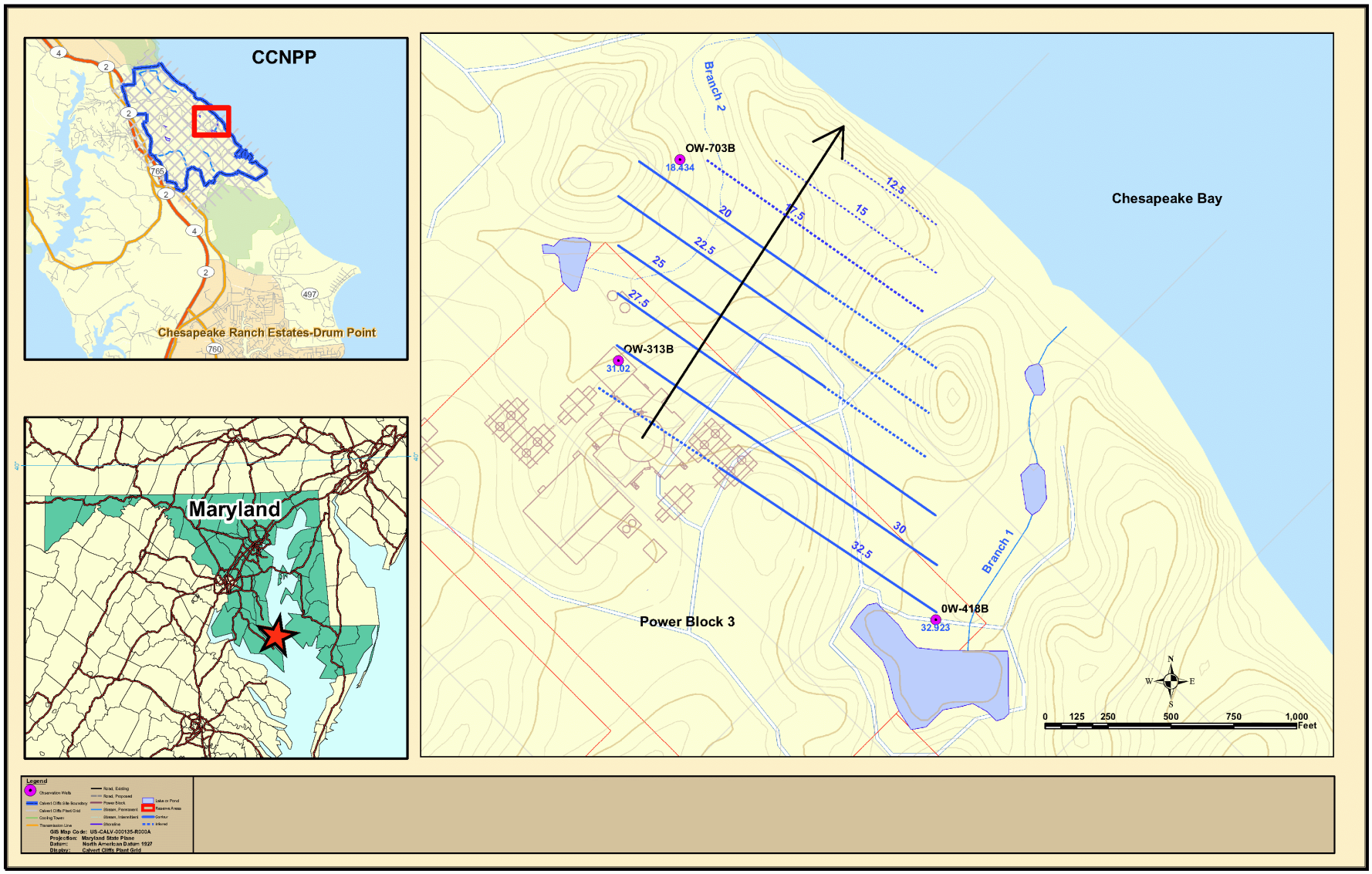

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Figure 2.3-55—~~{~~Potentiometric Surface Elevation Map and Groundwater Flow Directions for the Lower ~~Upper~~ Chesapeake Unit, March 2007~~}~~

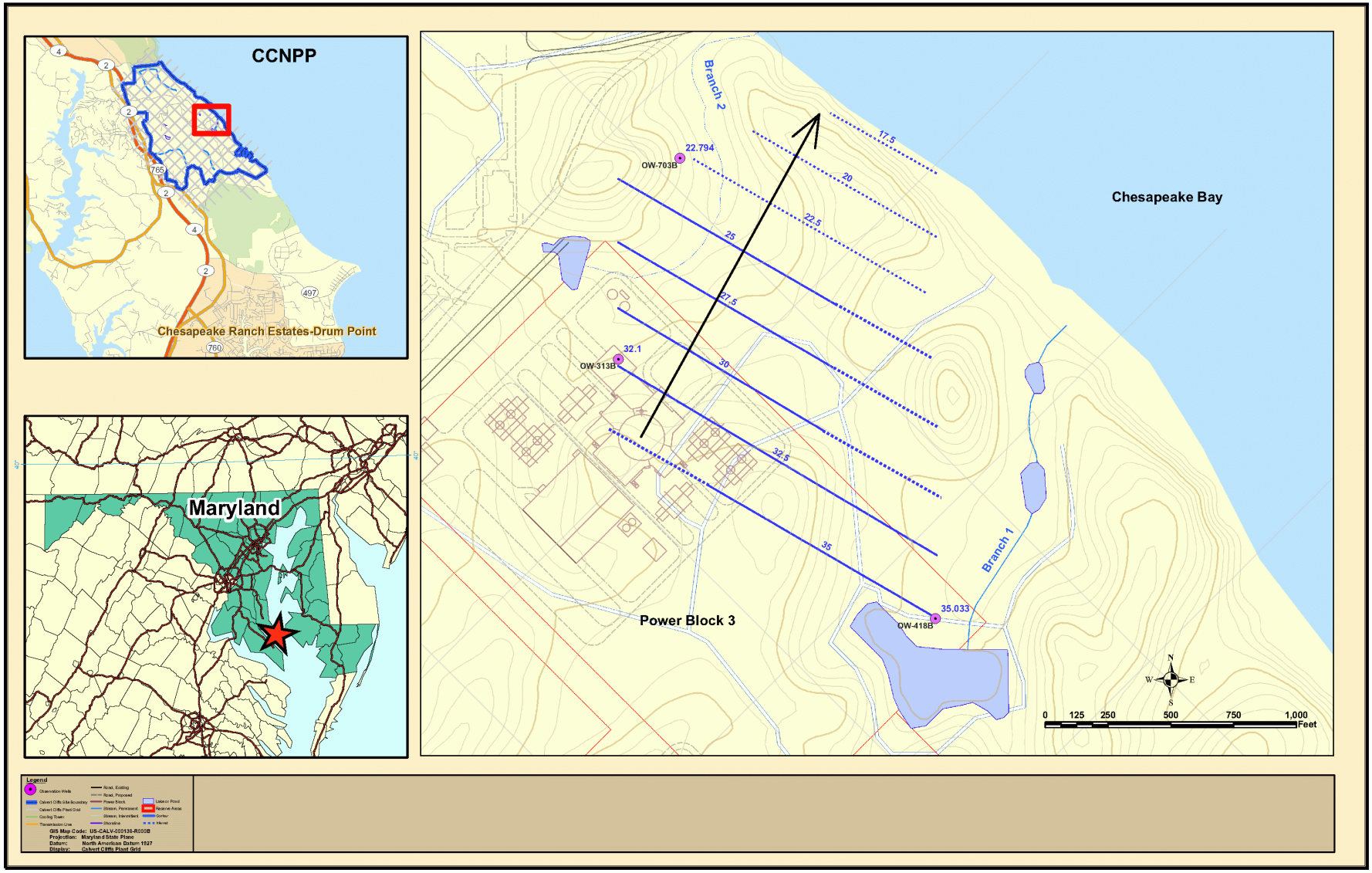

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Figure 2.3-56—{Hydrological System of the CCNPP Unit 3 Site Including Consumptive Surface Water Use Information}

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Figure 2.3-57—{Non-Consumptive Surface Water Use Information}

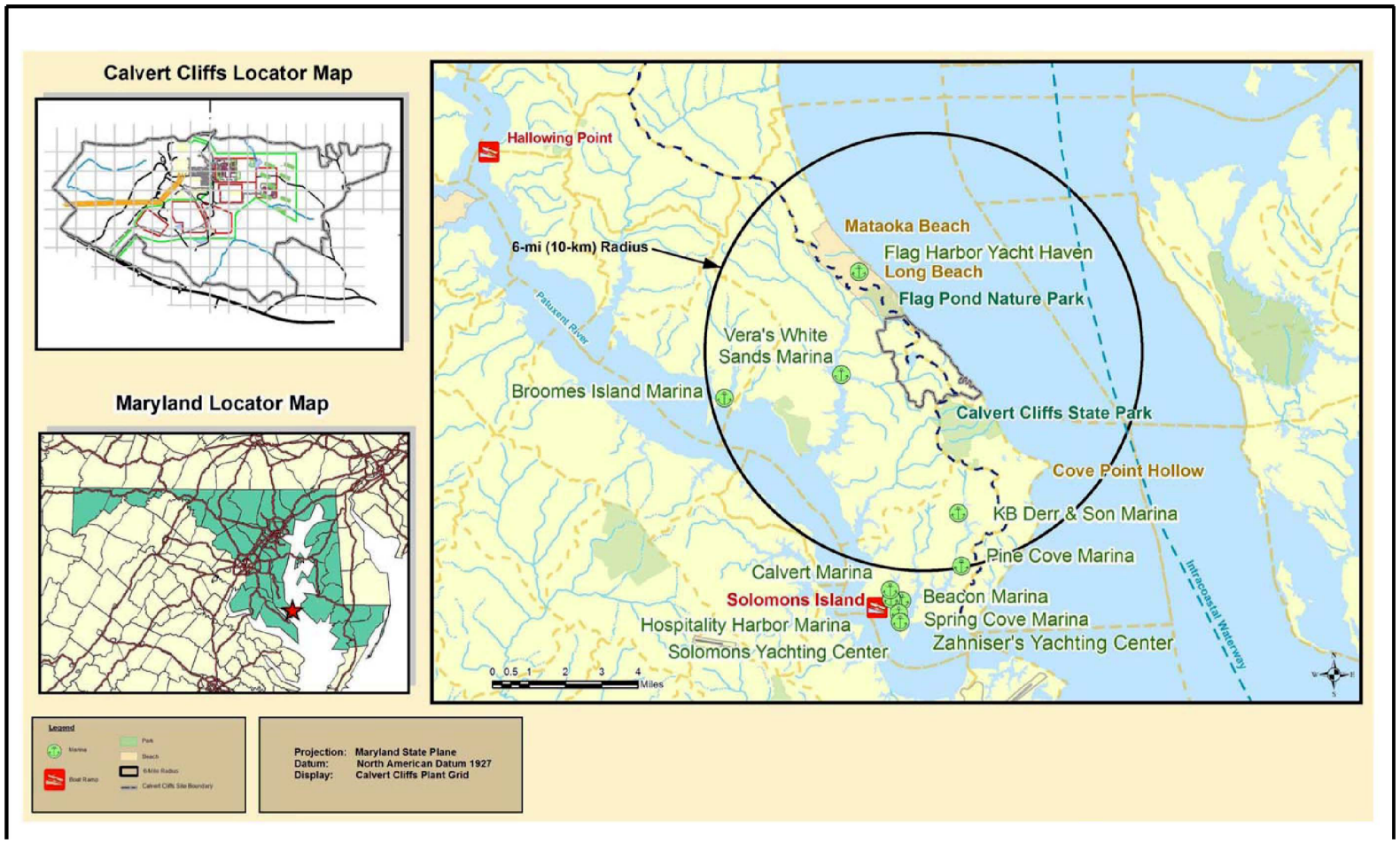

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Figure 2.3-58—~~{~~Schematic Cross Section of Southern Maryland Hydrostratigraphic Units~~}~~

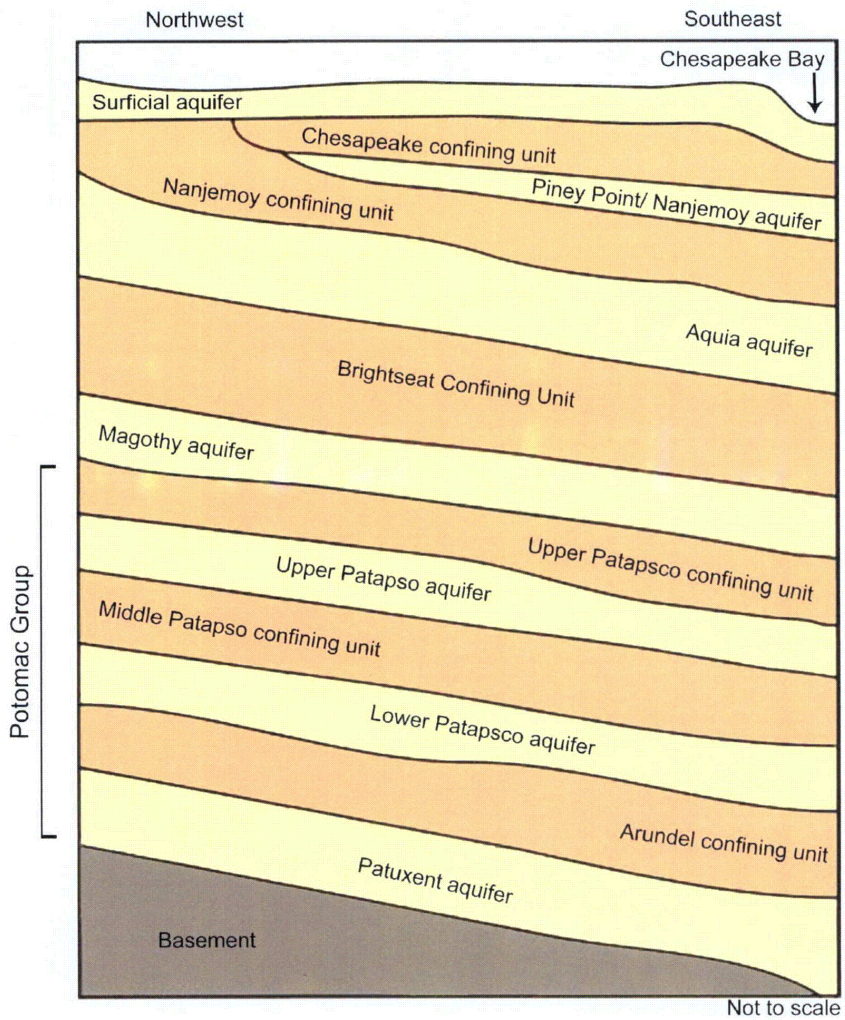

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Figure 2.3-59—{Groundwater Observation Wells and Cross Section Locations in the Vicinity of CCNP Unit 3}

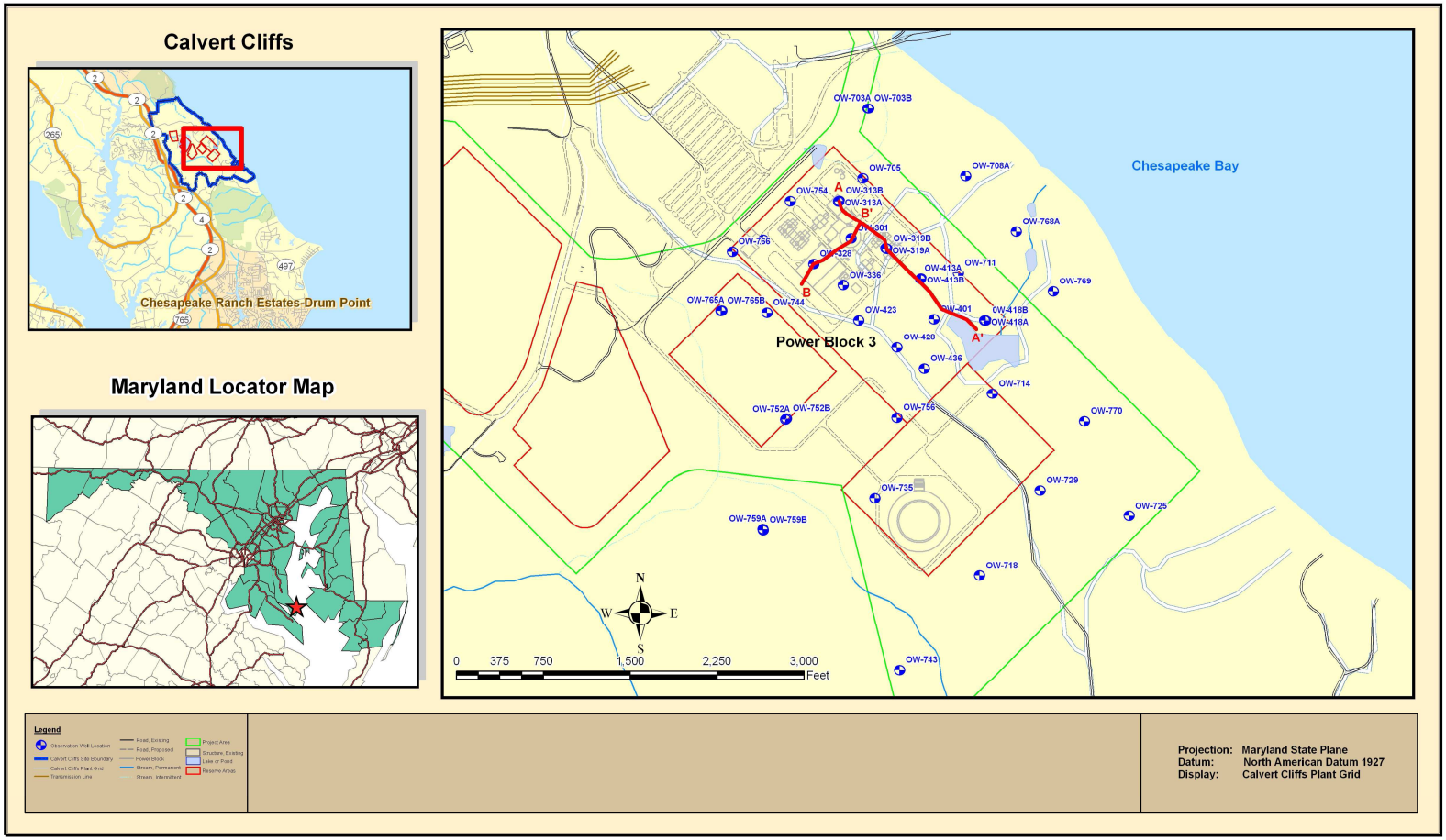

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Figure 2.3-60—{Northwest-Southeast Cross Section A-A' through Proposed Unit 3 Power Block Area}

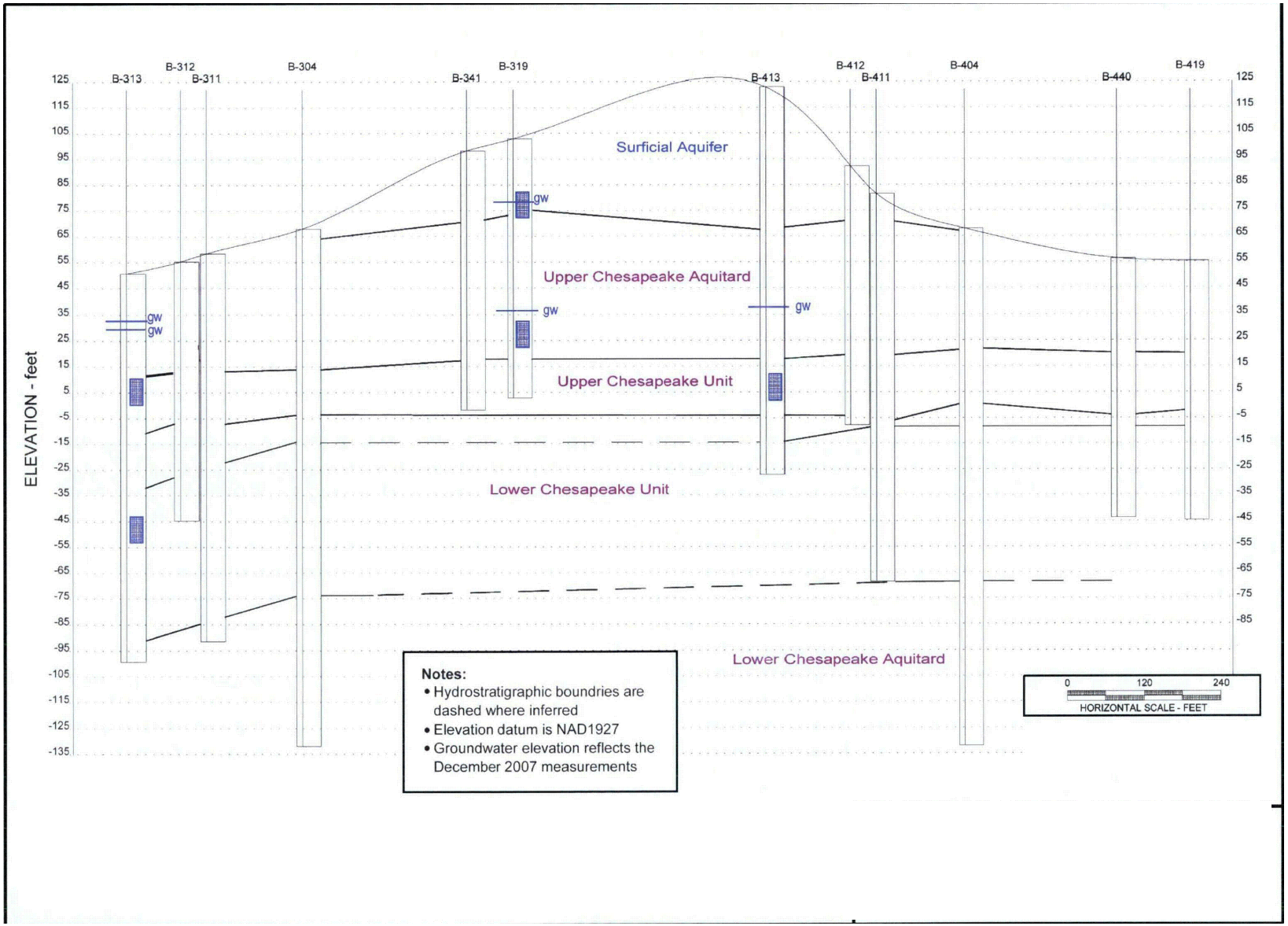

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Figure 2.3-61—{Northwest-Southeast Cross Section B-B' through Proposed Unit 3 Power Block Area}

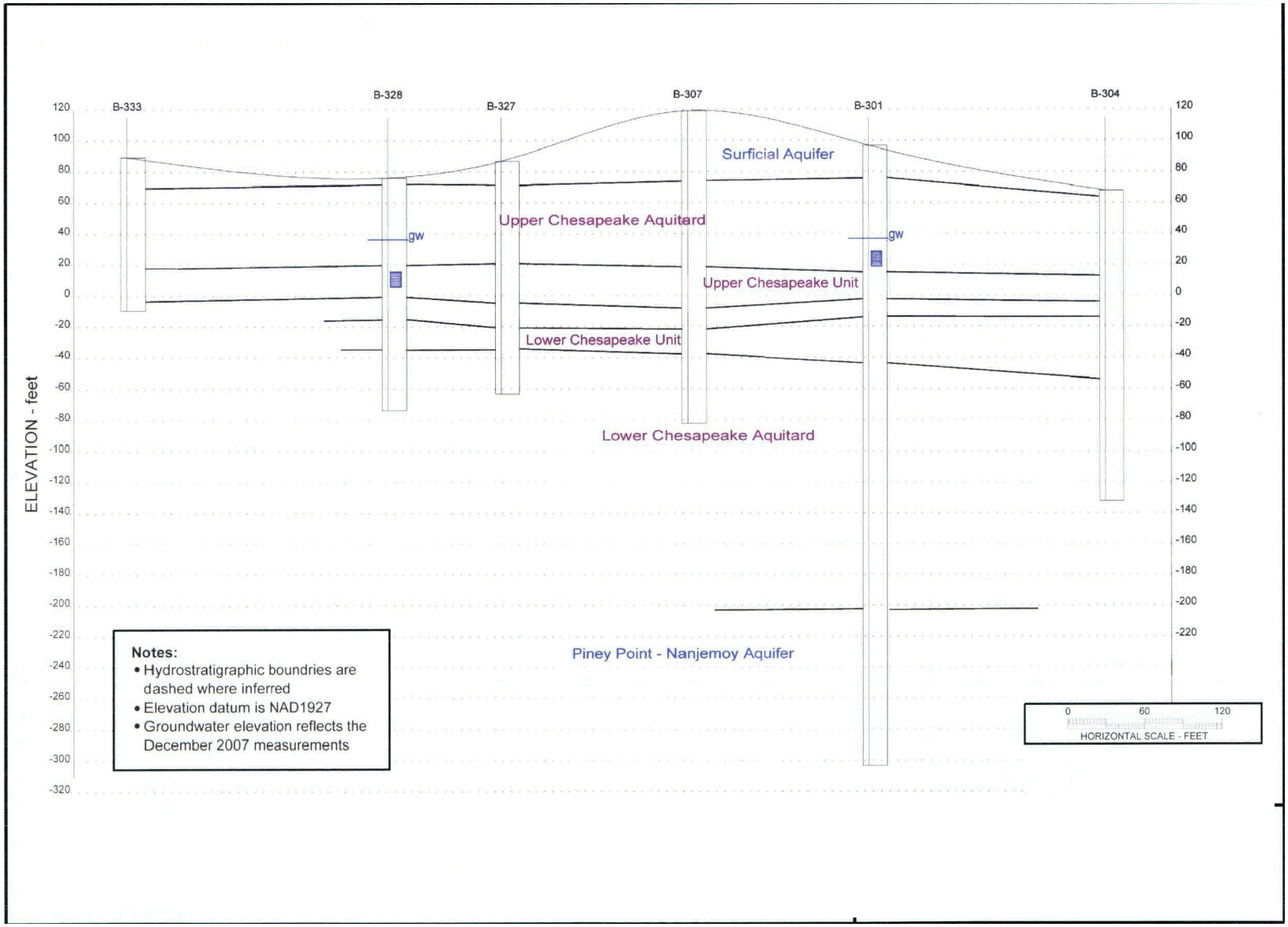

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Figure 2.3-62—~~{~~Potentiometric Surface of the Aquia Aquifer in Southern Maryland, September 2003~~}~~

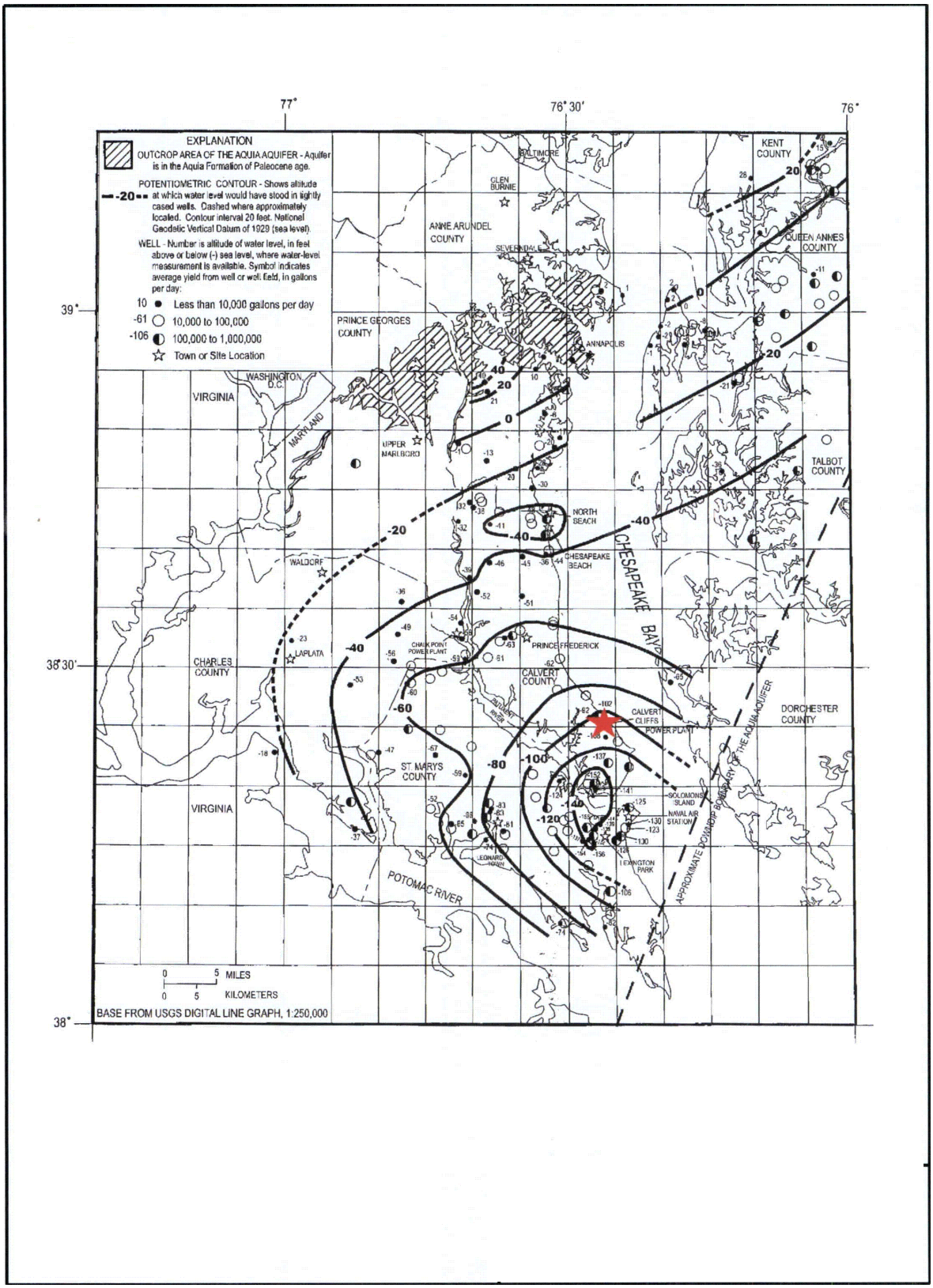

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Figure 2.3-63—~~{~~Potentiometric Surface of the Magothy Aquifier in Southern Maryland, September 2003~~}~~

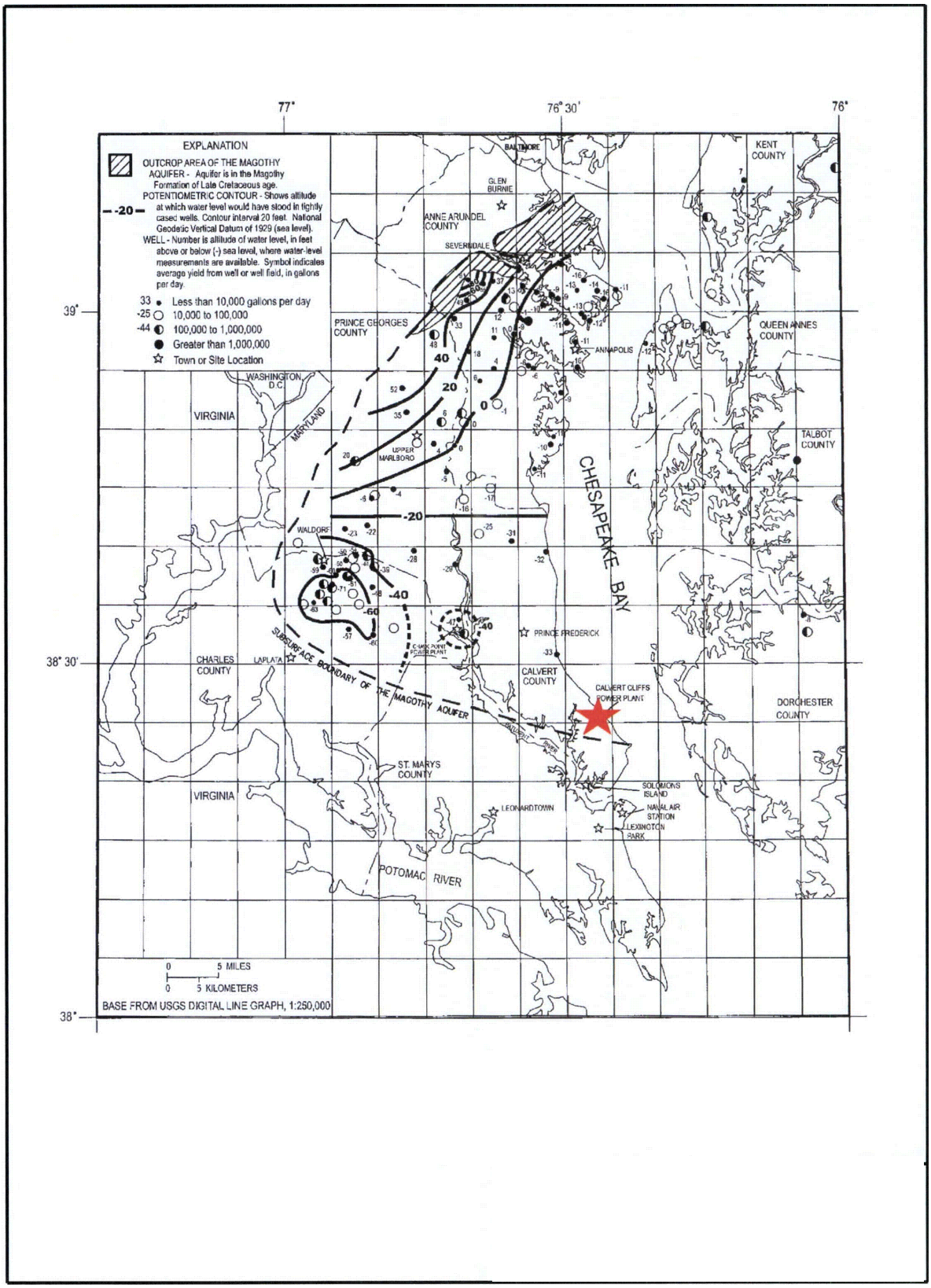

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Figure 2.3-64—~~{~~Potentiometric Surface of the Upper Patapsco Aquifier in Southern Maryland, September 2003~~}~~

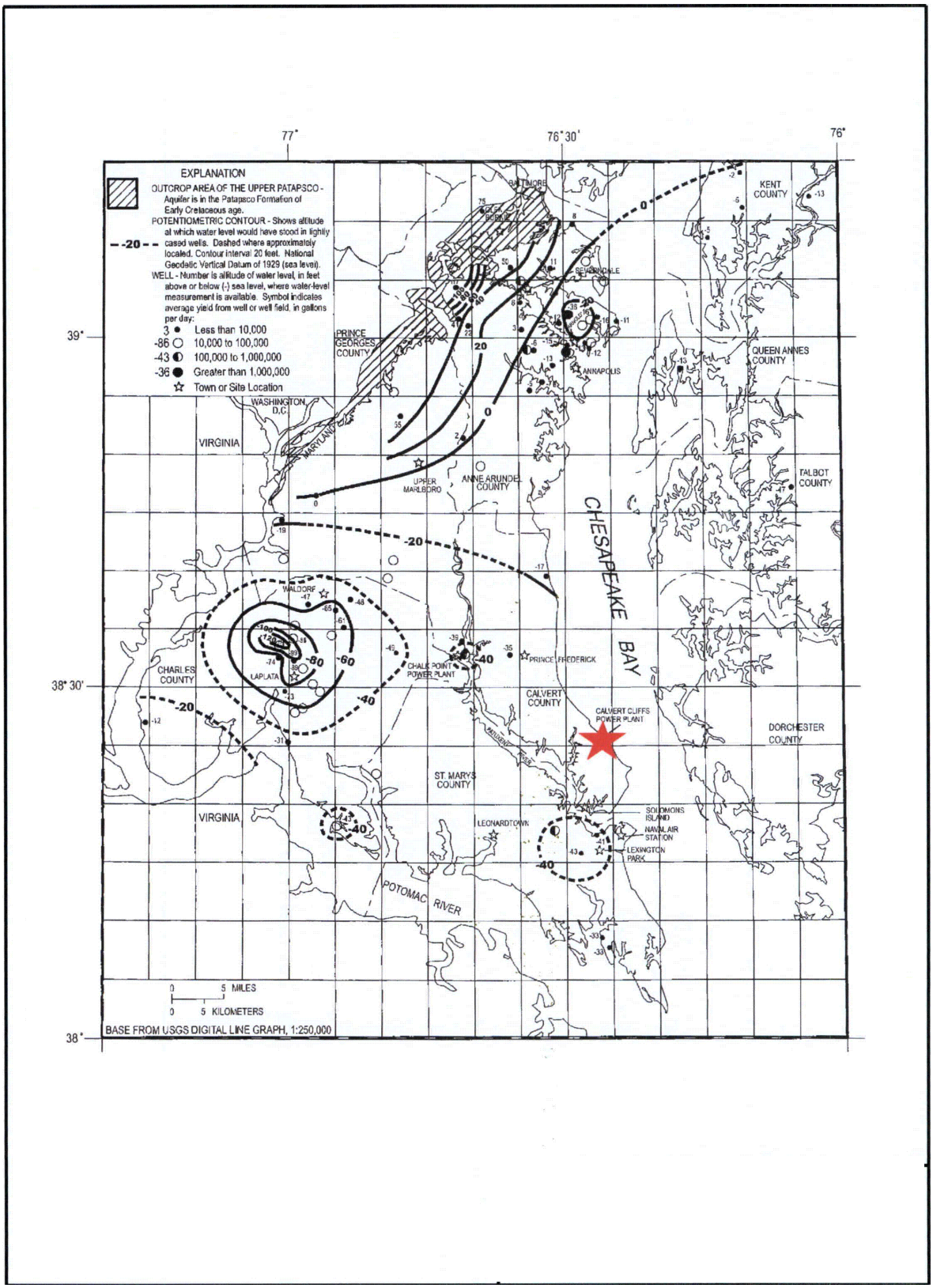

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Figure 2.3-65—{Potentiometric Surface of the Lower Patapsco Aquifier in Southern Maryland, September 2003}

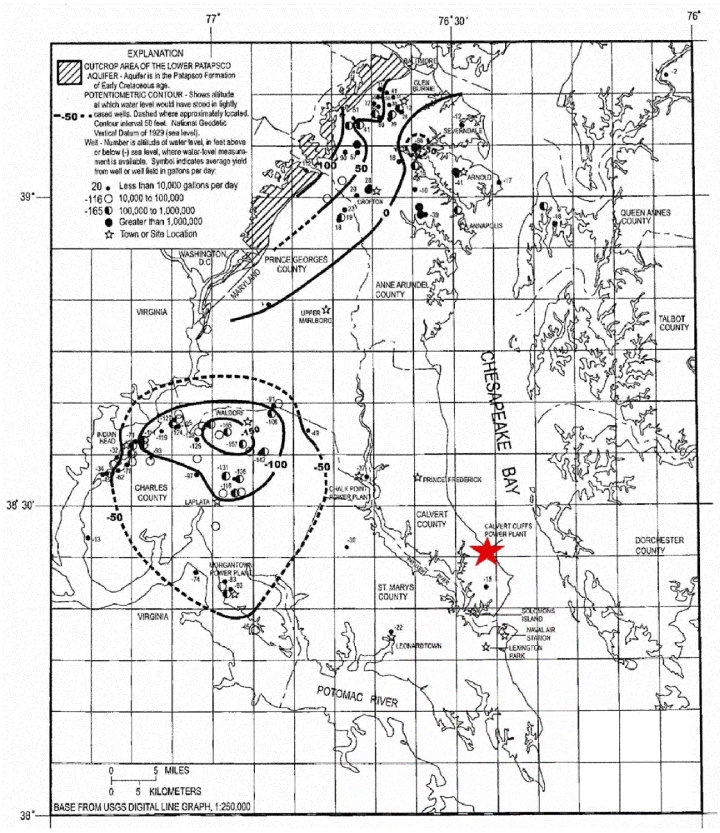

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Figure 2.3-66—~~{~~US EPA Region 3 Sole Source Aquifiers~~}~~

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Figure 2.3-67—{Projected Location of Nearest Offsite Groundwater Well and Community Water Supply System}

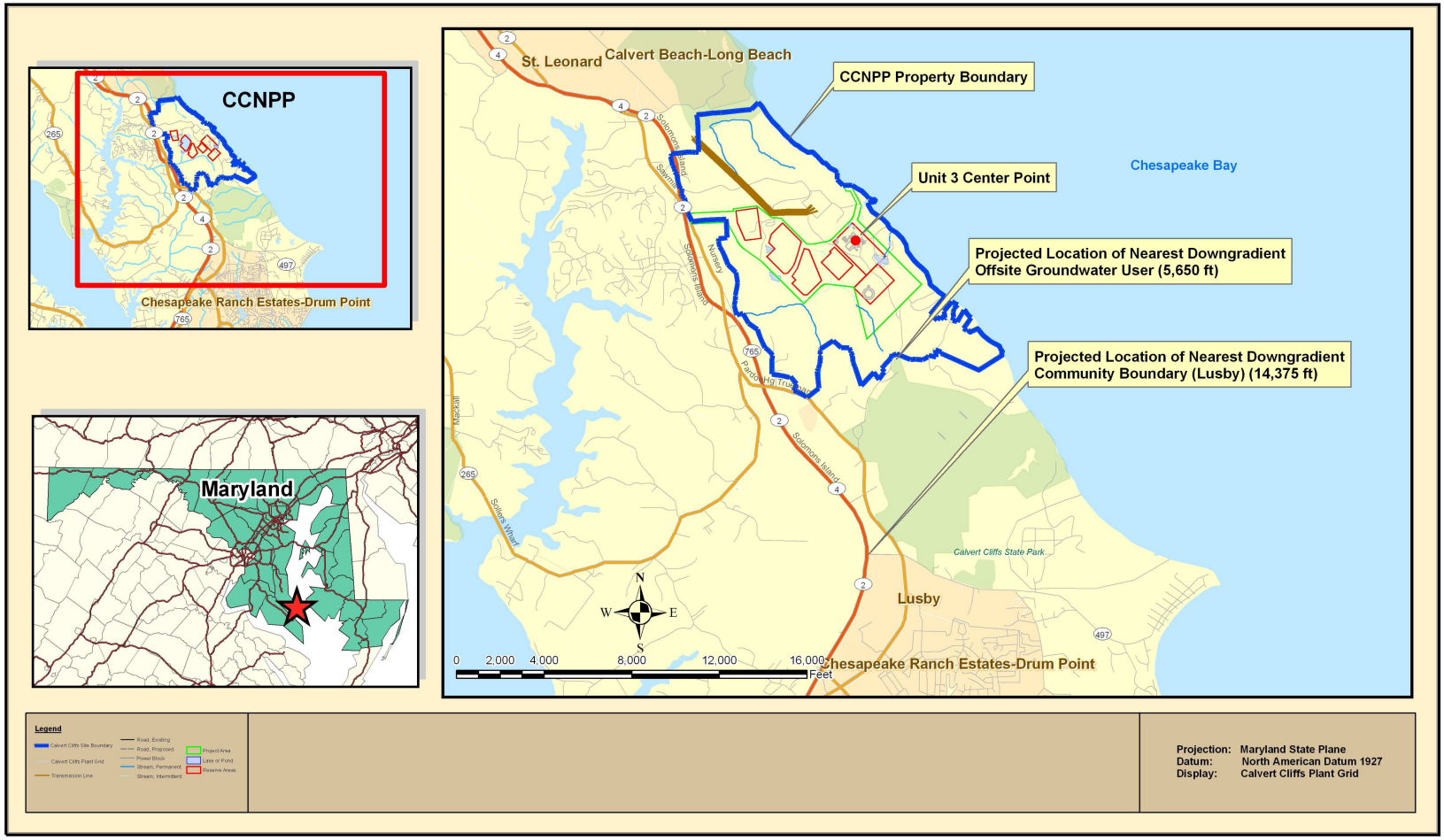

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Figure 2.3-68—{CCNPP Water Production Wells}

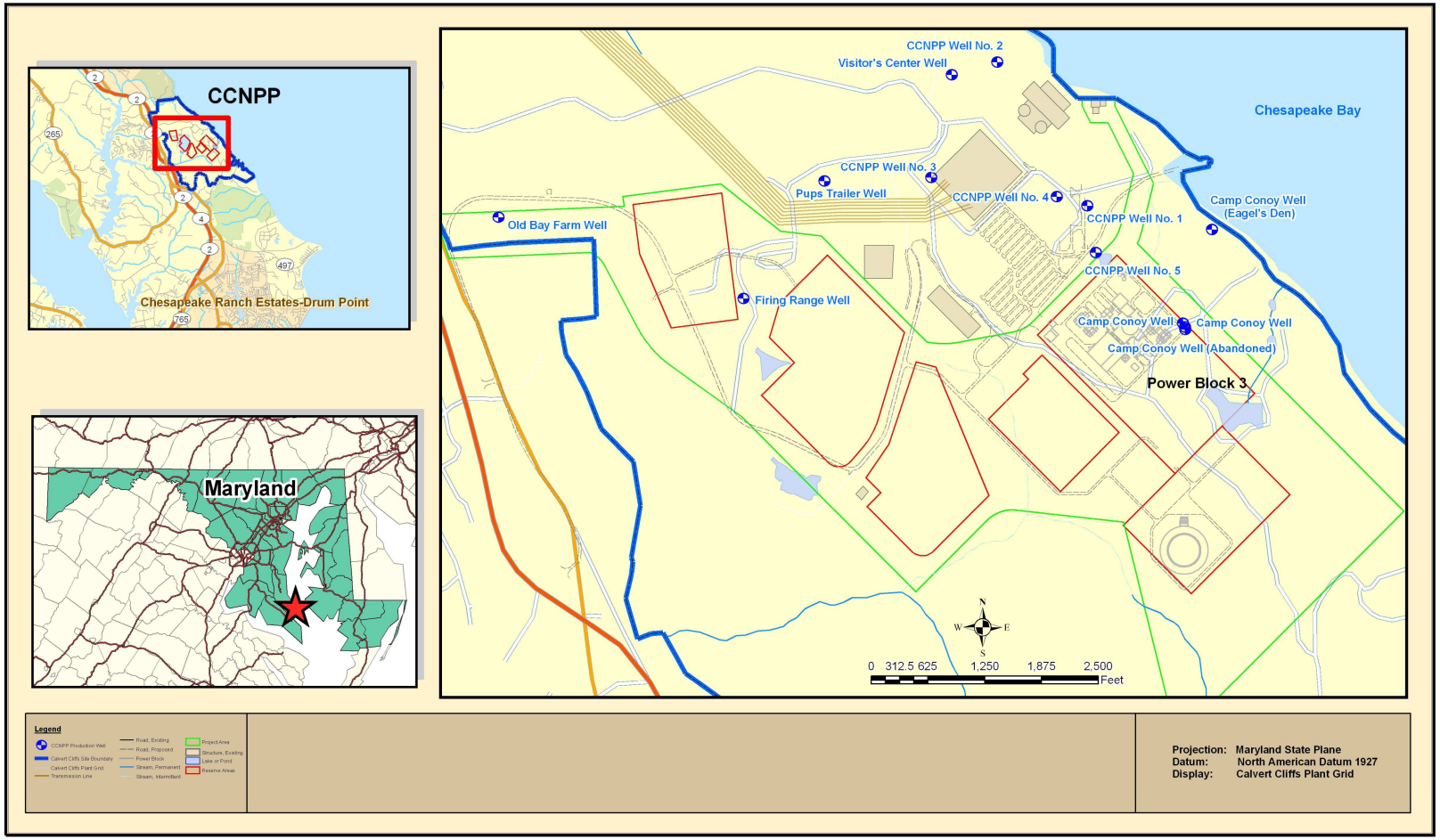

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Figure 2.3-69—~~{~~The Difference Between the Potentiometric Surfaces of the Aquia Aquifier, September 1982 and September 2003, in Southern Maryland~~}~~

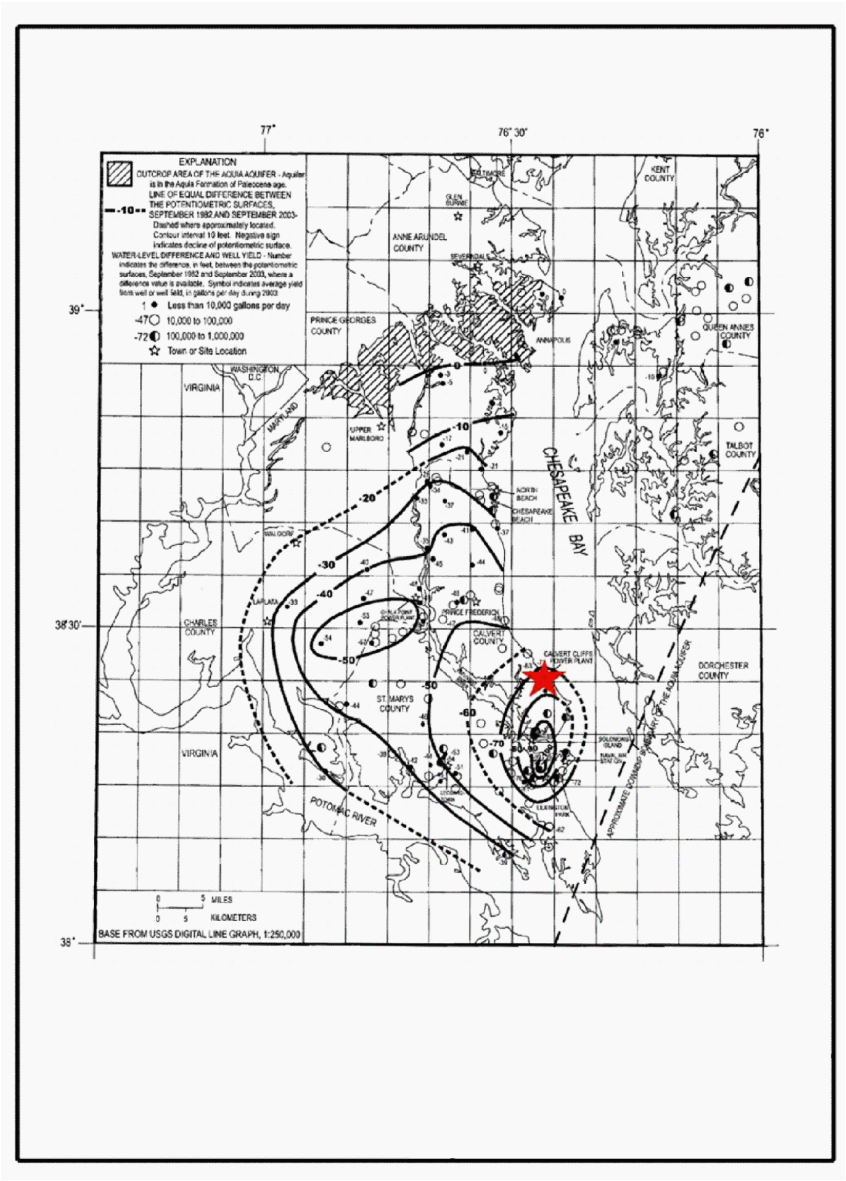

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Figure 2.3-70—{The Difference Between the Potentiometric Surfaces of the Magothy Aquifer, September 1975 and September 2003, in Southern Maryland}

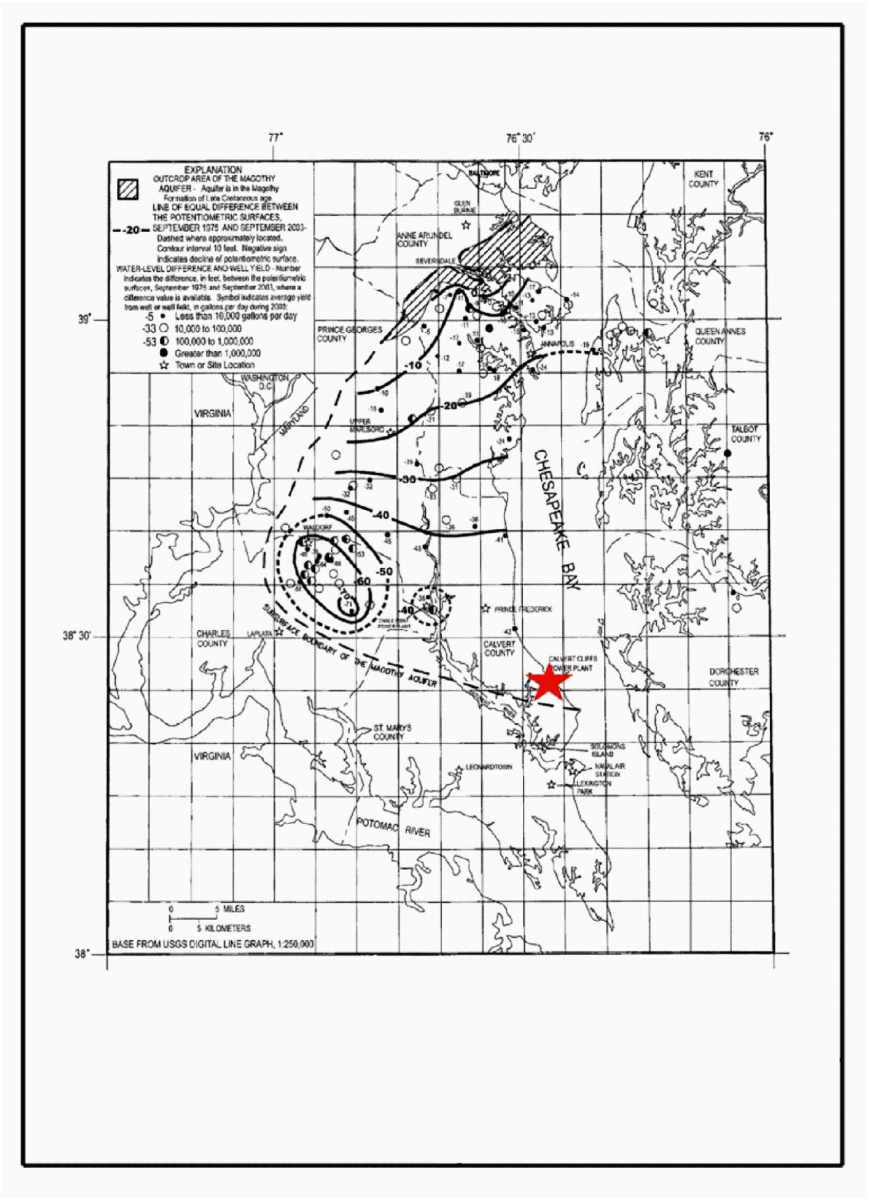

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Figure 2.3-71—~~{~~The Difference Between the Potentiometric Surfaces of the Upper Patapsco Aquifier, September 1990 and September 2003, in Southern Maryland~~}~~

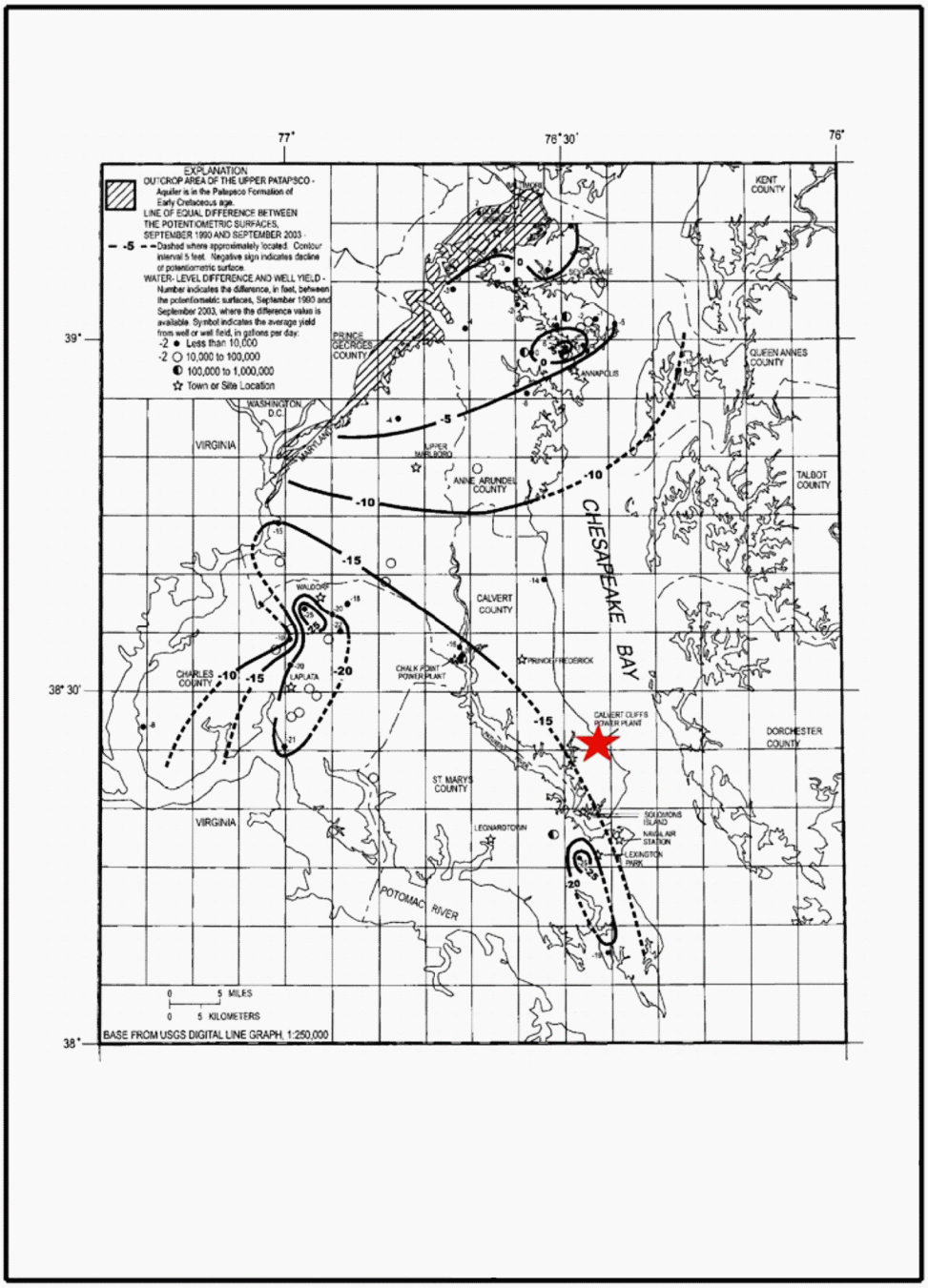

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Figure 2.3-72—~~{~~The Difference Between the Potentiometric Surfaces of the Lower Patapsco Aquifier, September 1990 and September 2003, in Southern Maryland~~}~~

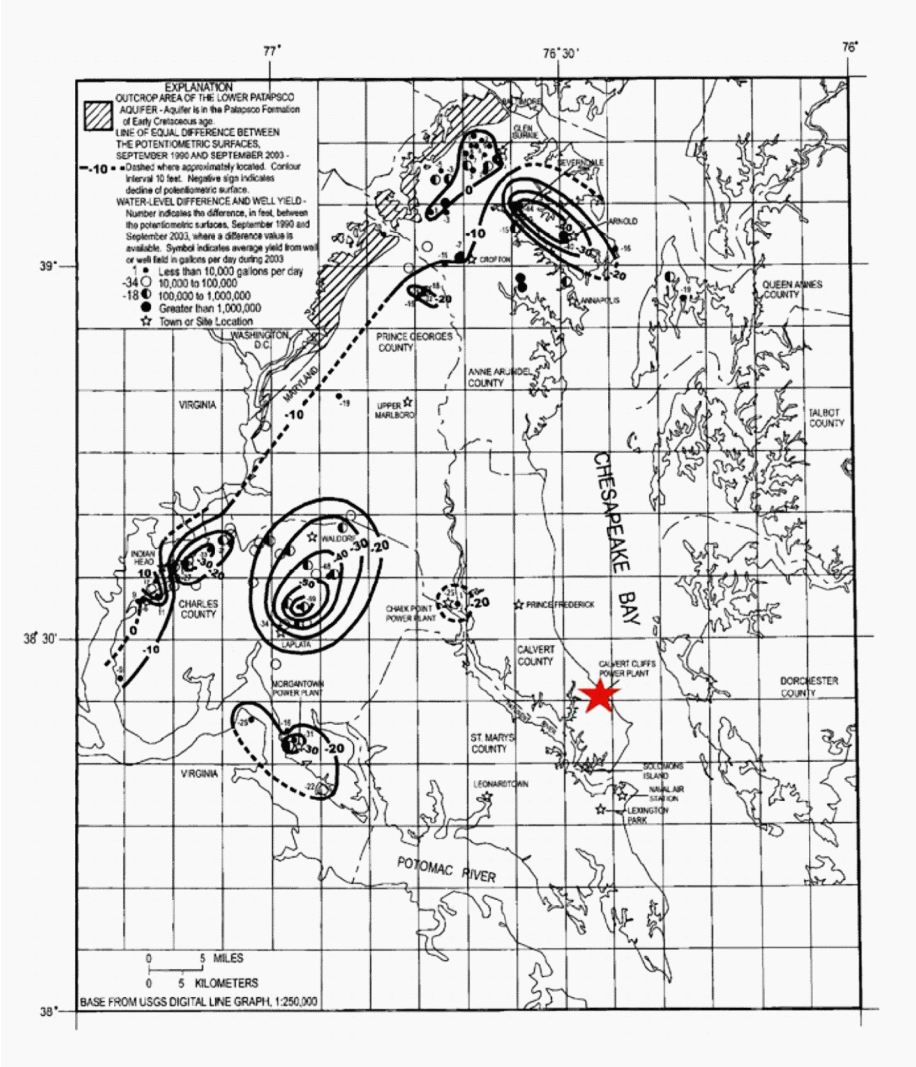

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Figure 2.3-73—{Calvert County Grouped-Water-Level Monitoring Network, Location of Selected Water Level Monitoring Wells}

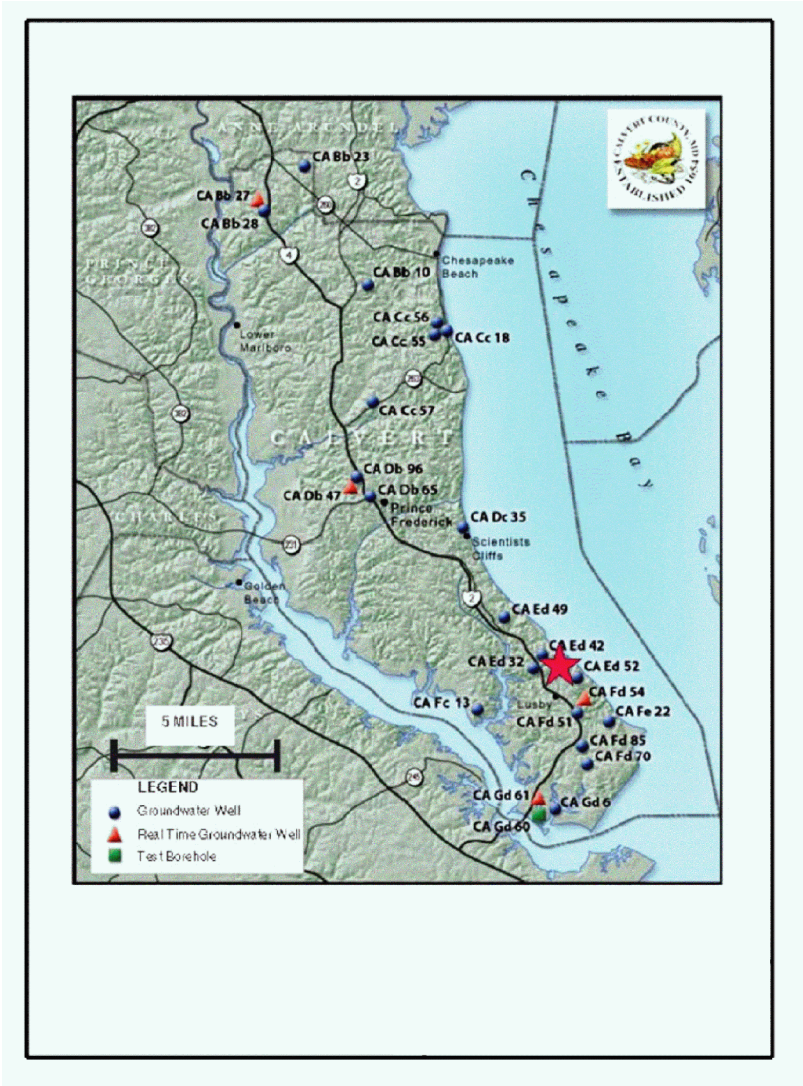

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Figure 2.3-74—{Well Hydrograph for Monitoring Well CA Fd 51 Screened in the Piney Point – Nanjemoy Aquifier at Calvert Cliffs State Park}

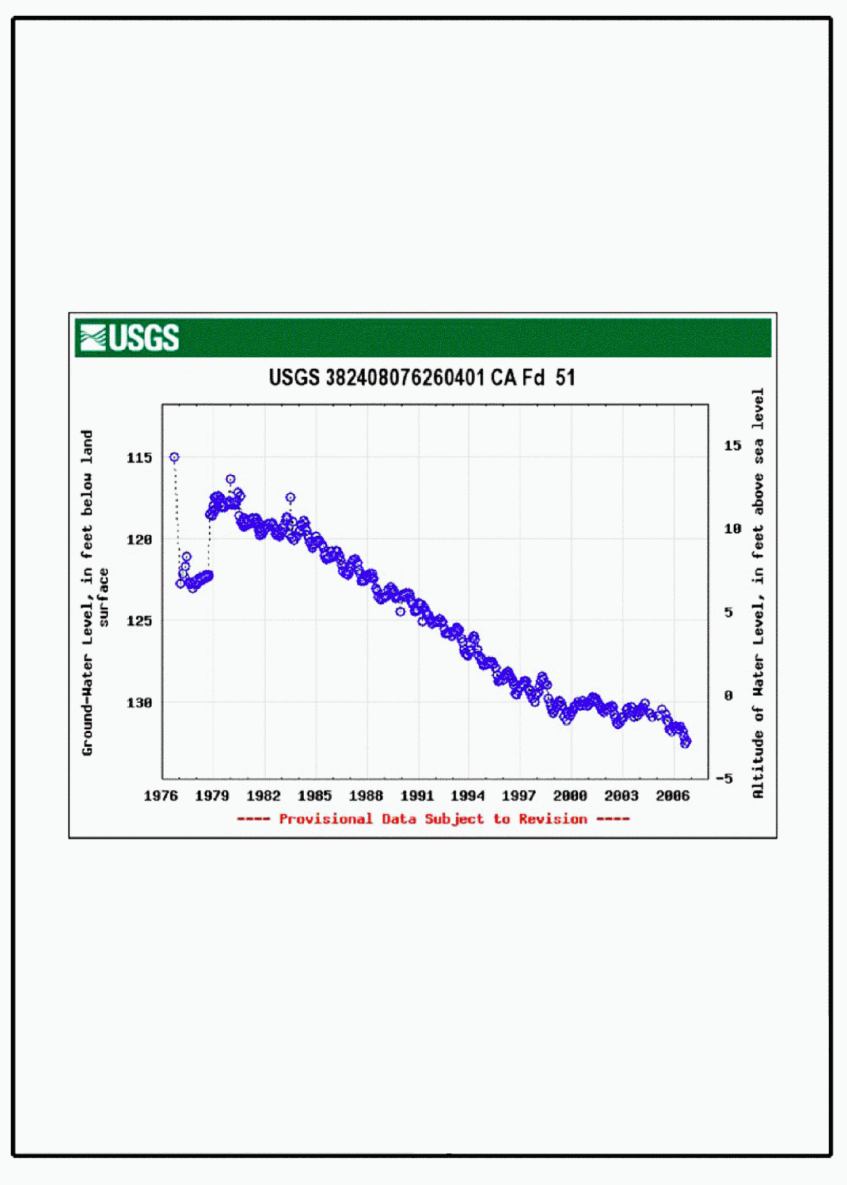

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Figure 2.3-75—~~{~~Well Hydrograph Hydrograph for Monitoring Well CA Ed 42 Screened in the Aquia Aquifier at Calvert Cliffs Nuclear Power Plant~~}~~

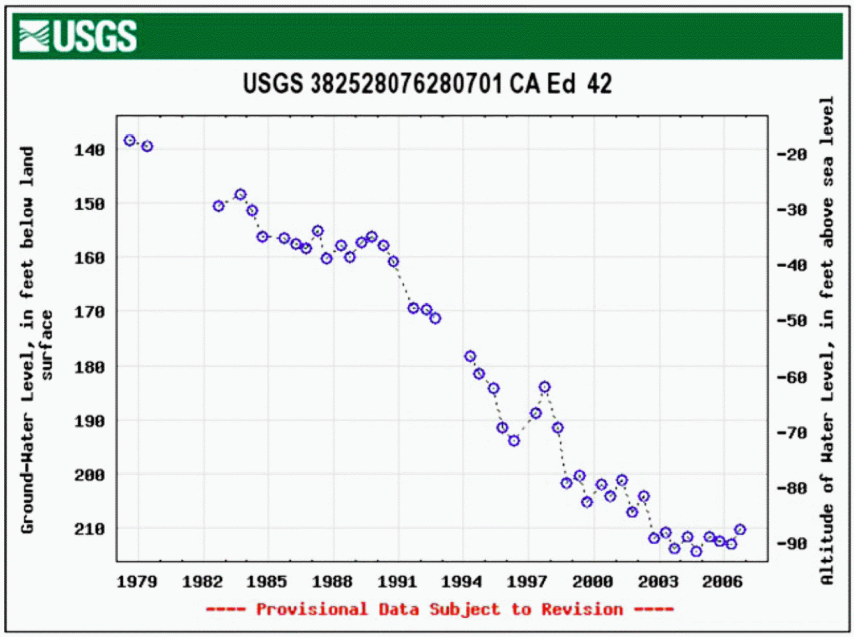

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Figure 2.3-76—{Well Hydrograph Hydrograph for Monitoring Well CA Dc 35 Screened in the Magothy Aquifier at Scientits Cliffs}

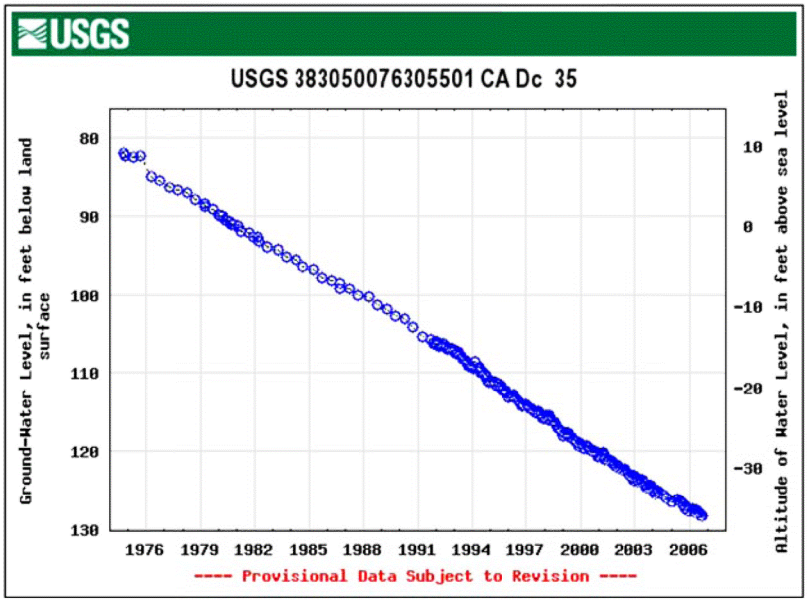

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Figure 2.3-77—{Well Hydrograph Hydrograph for Monitoring Well CA Db 96 Screened in the Upper Patapsco Aquifier at Prince Frederick}

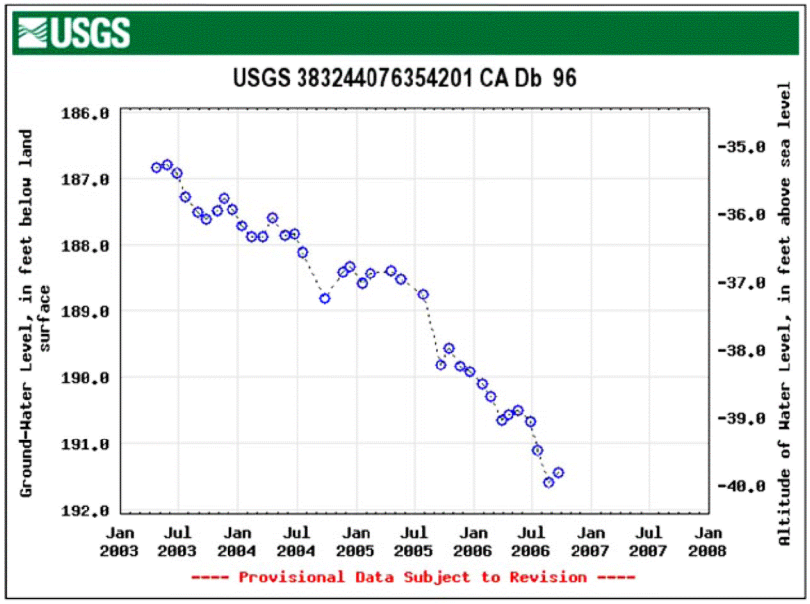

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Figure 2.3-78—{Well Hydrograph Hydrograph for Monitoring Well CA Fd 85 Screened in the Lower Patapsco Aquifier at Chesapeake Ranch Estates}

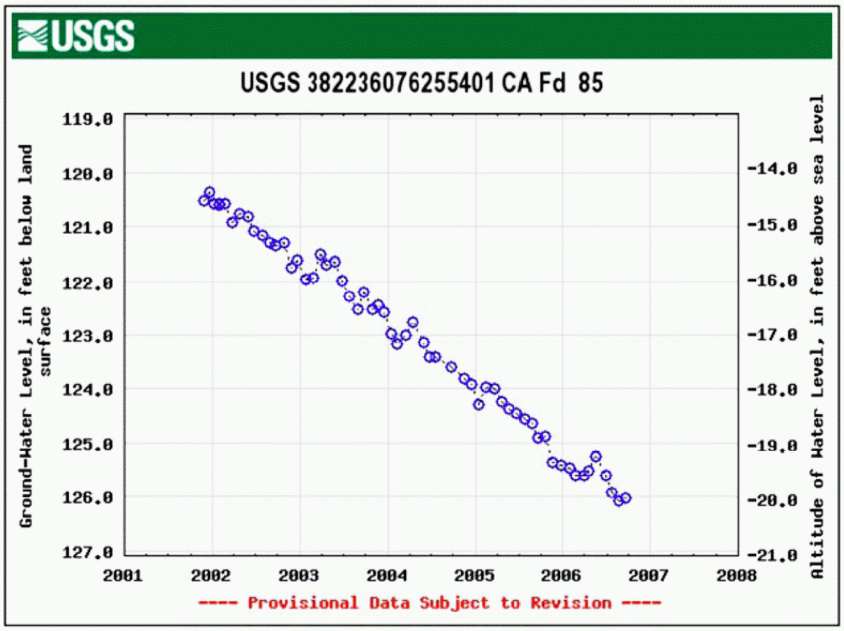

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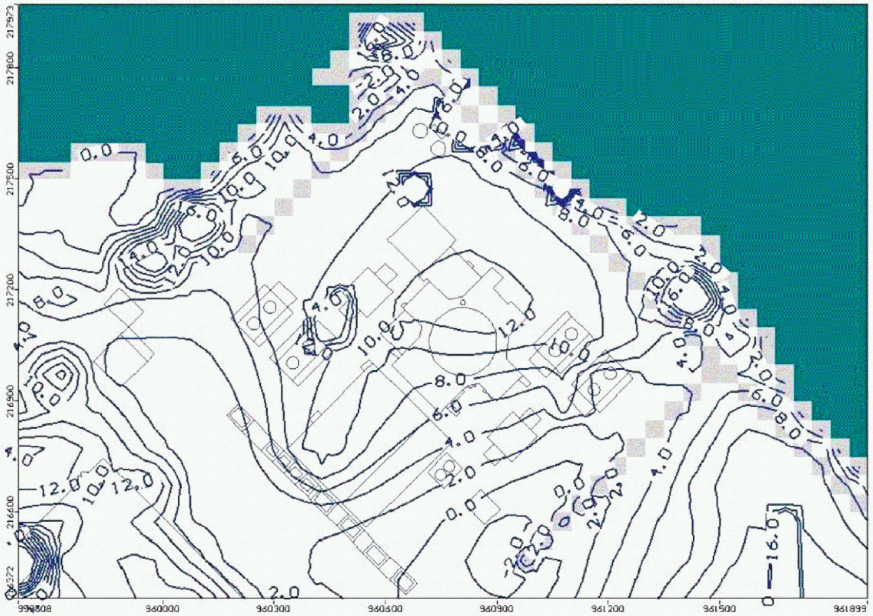
Figure 2.3-79—{Modeled Post-Construction Depth to Surficial Aquifer Water Table Around Power Block 3}



Note: Units are Feet below grade level

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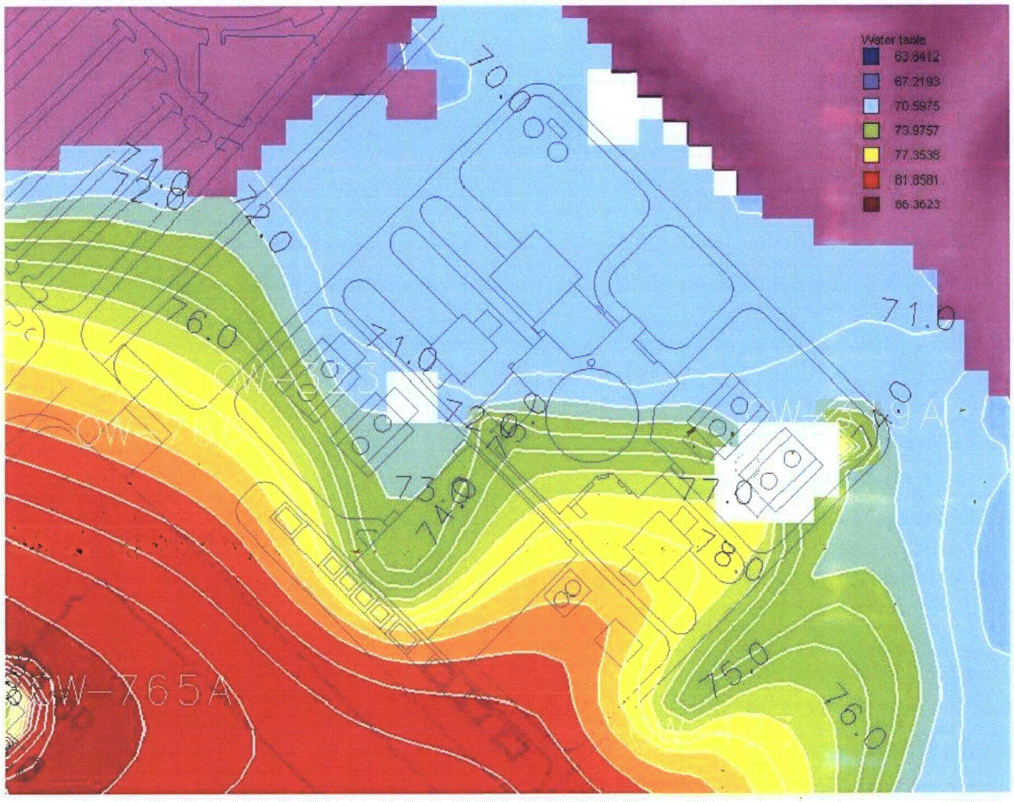
Figure 2.3-80—{Modeled Post-Construction Elevation to Surficial Aquifier Water Table Around Power Block 3}



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 2.3-81—~~{~~Chesapeake Bay WQ Monitoring Stations~~}~~

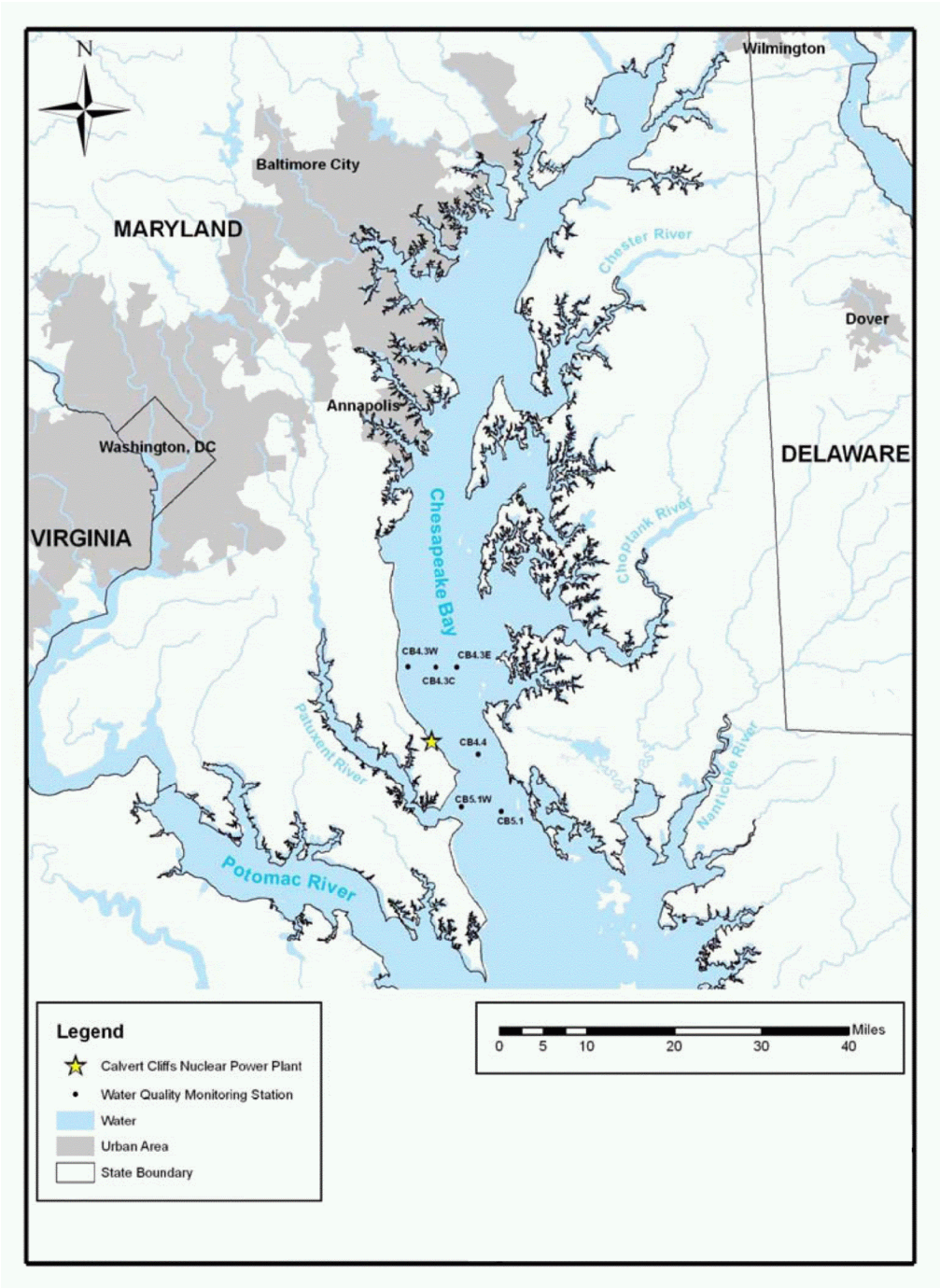

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Figure 2.3-82—{Location of Segments Used for Calculation of Inflow to Chesapeake Bay}

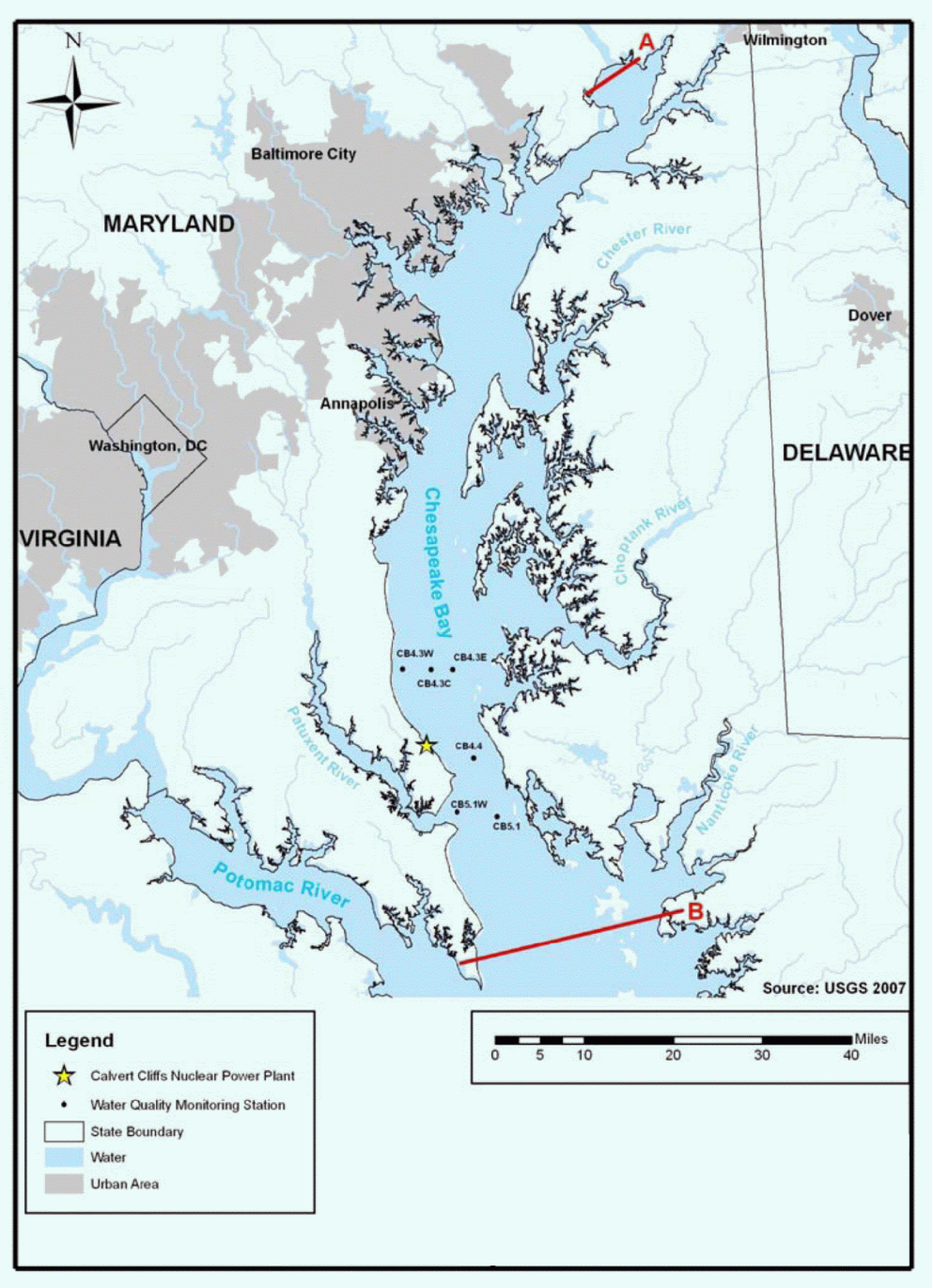

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Figure 2.3-83—~~{~~CNPP Shoreline~~}~~

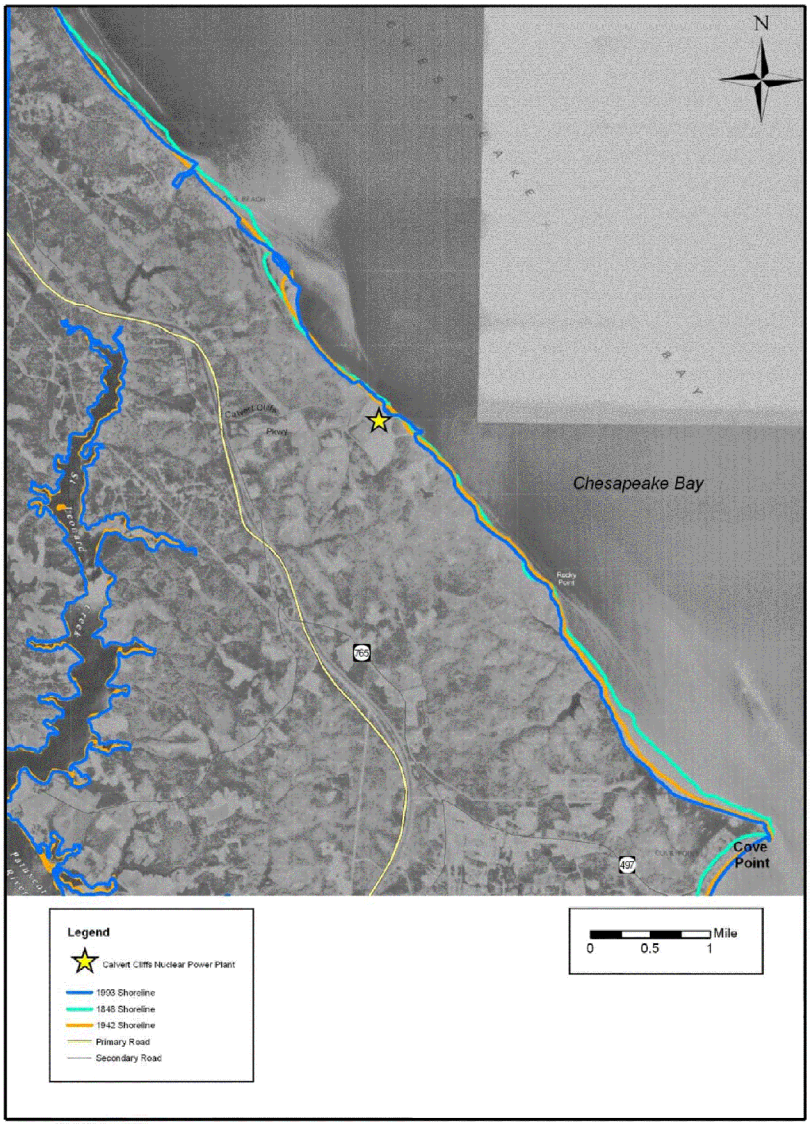

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Figure 2.3-84—~~{~~Sediment Sampling Locations in the Chesapeake Bay Near the CCNPP Barge Slip, September 2006~~}~~

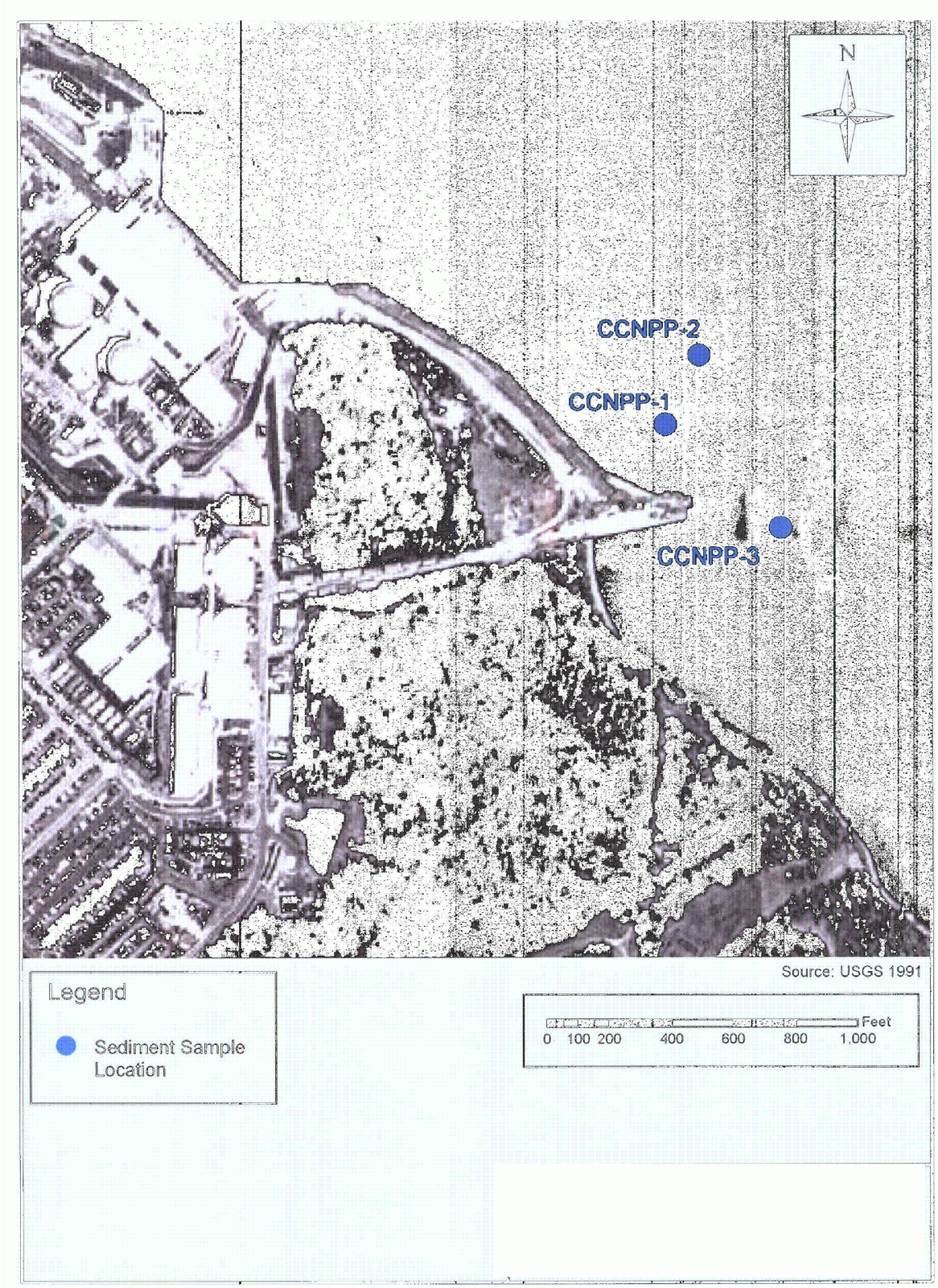

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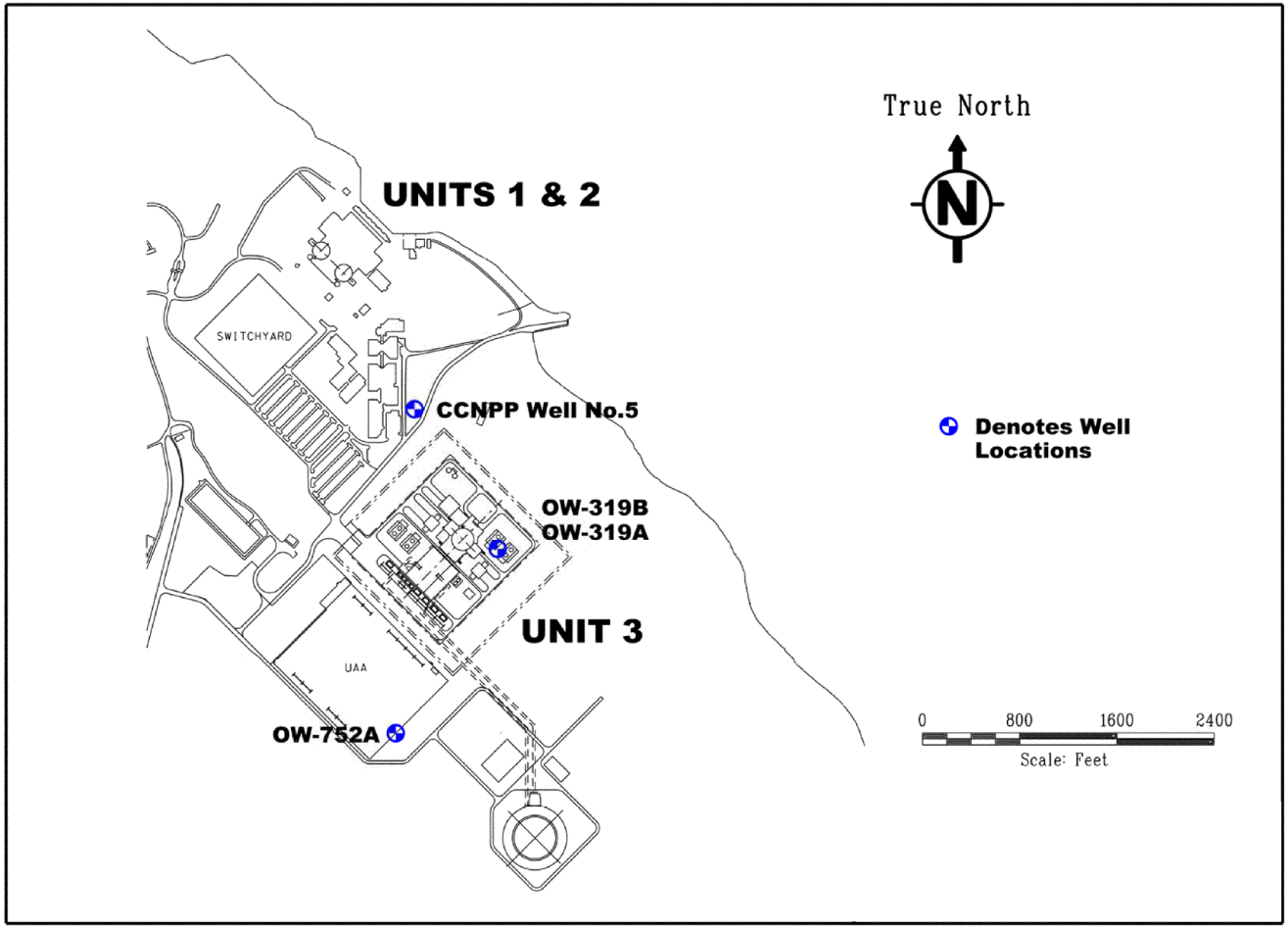
Figure 2.3-85—{Groundwater Well Sampling Locations at CCNPP, May 2007}



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