Figure 2.4-50—{Chesapeake Bay Shoreline Erosion Rates Near The CCNPP Unit 3 Site Estimated By Maryland Department Of Natural Resources}

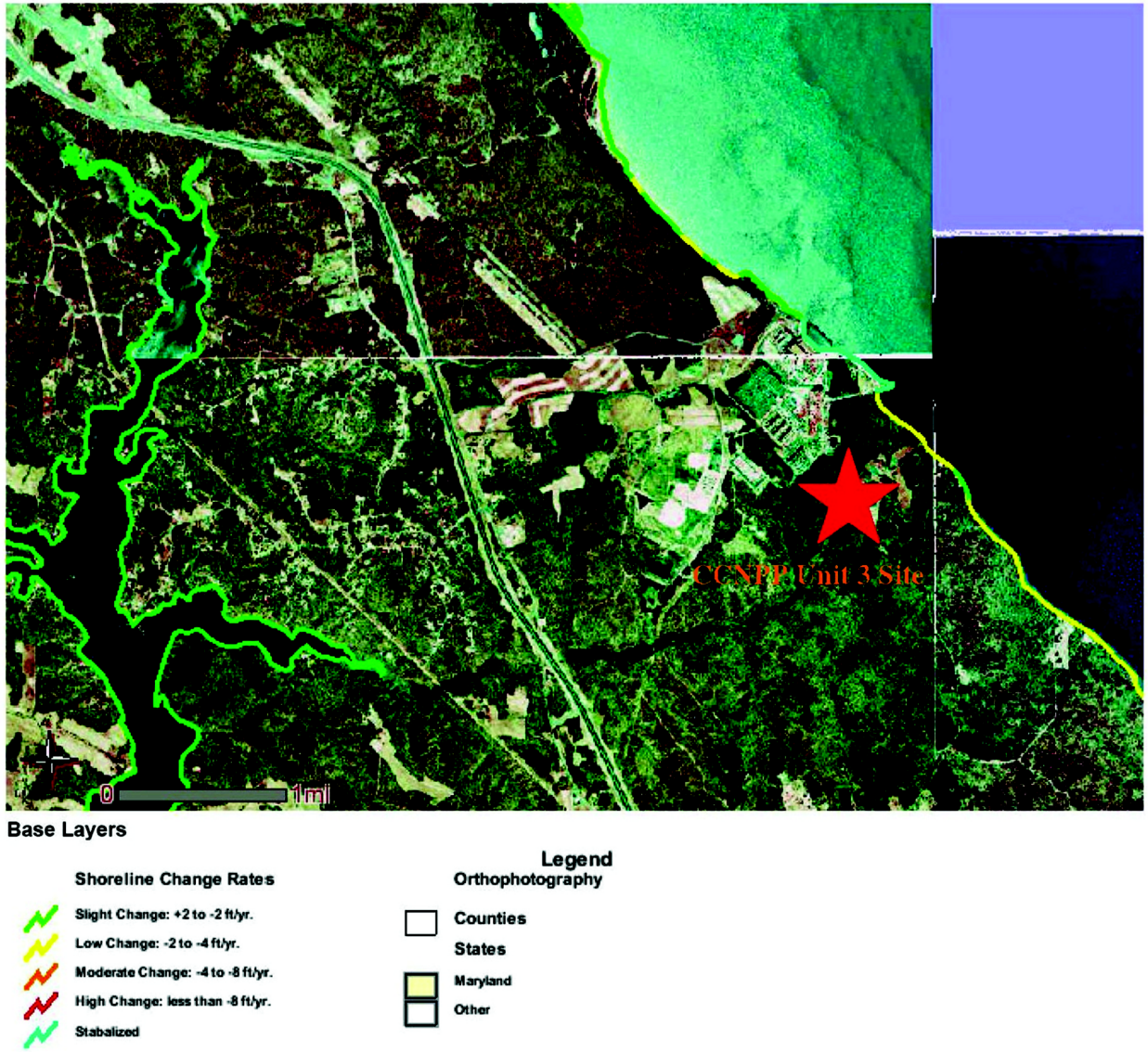

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Figure 2.4-51—{UHS Make-Up Intake Structure Modified Bulkhead Retaining Wall Location}

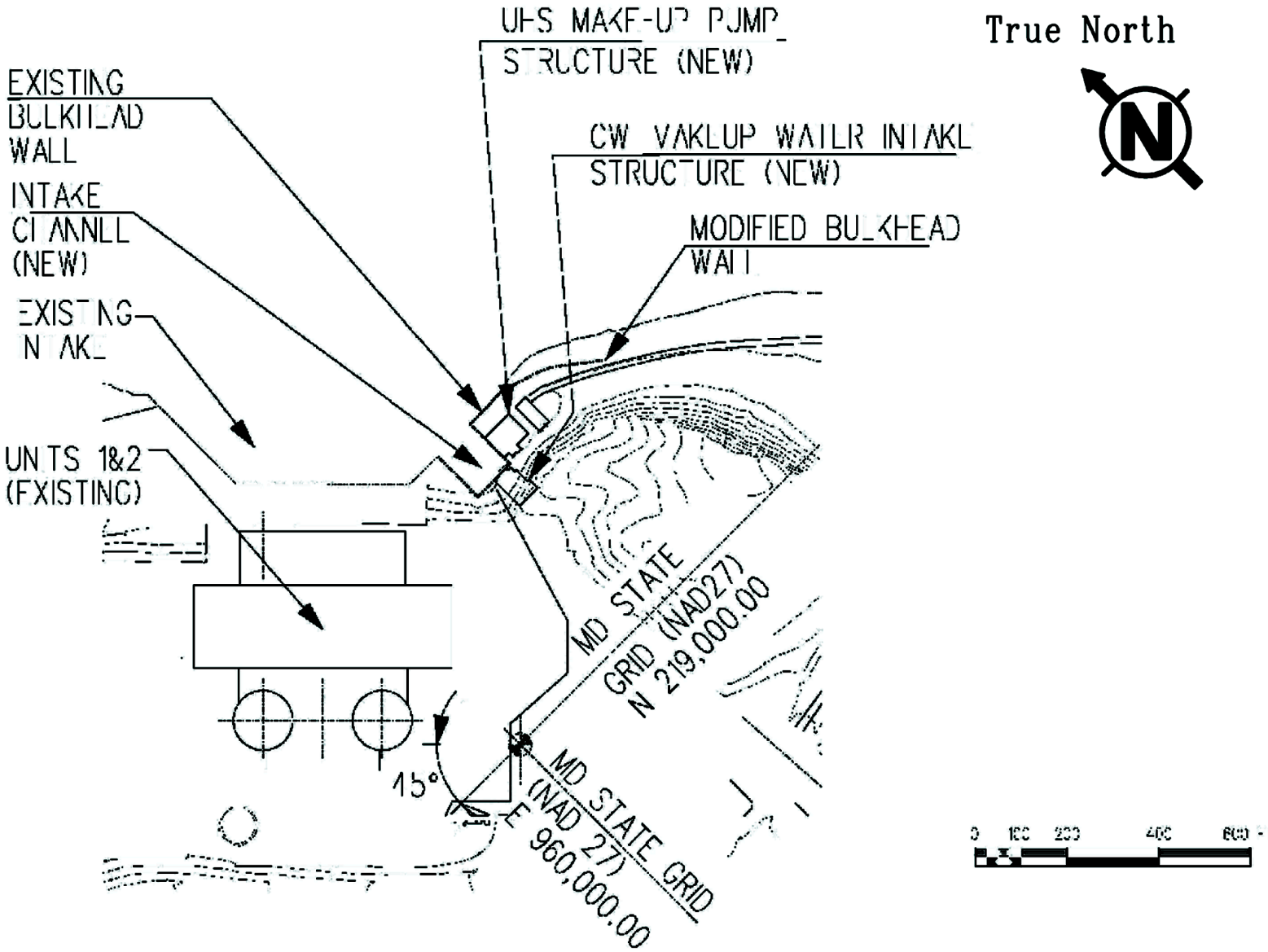

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Figure 2.4-52—{Track Of The Probable Maximum Hurricane}

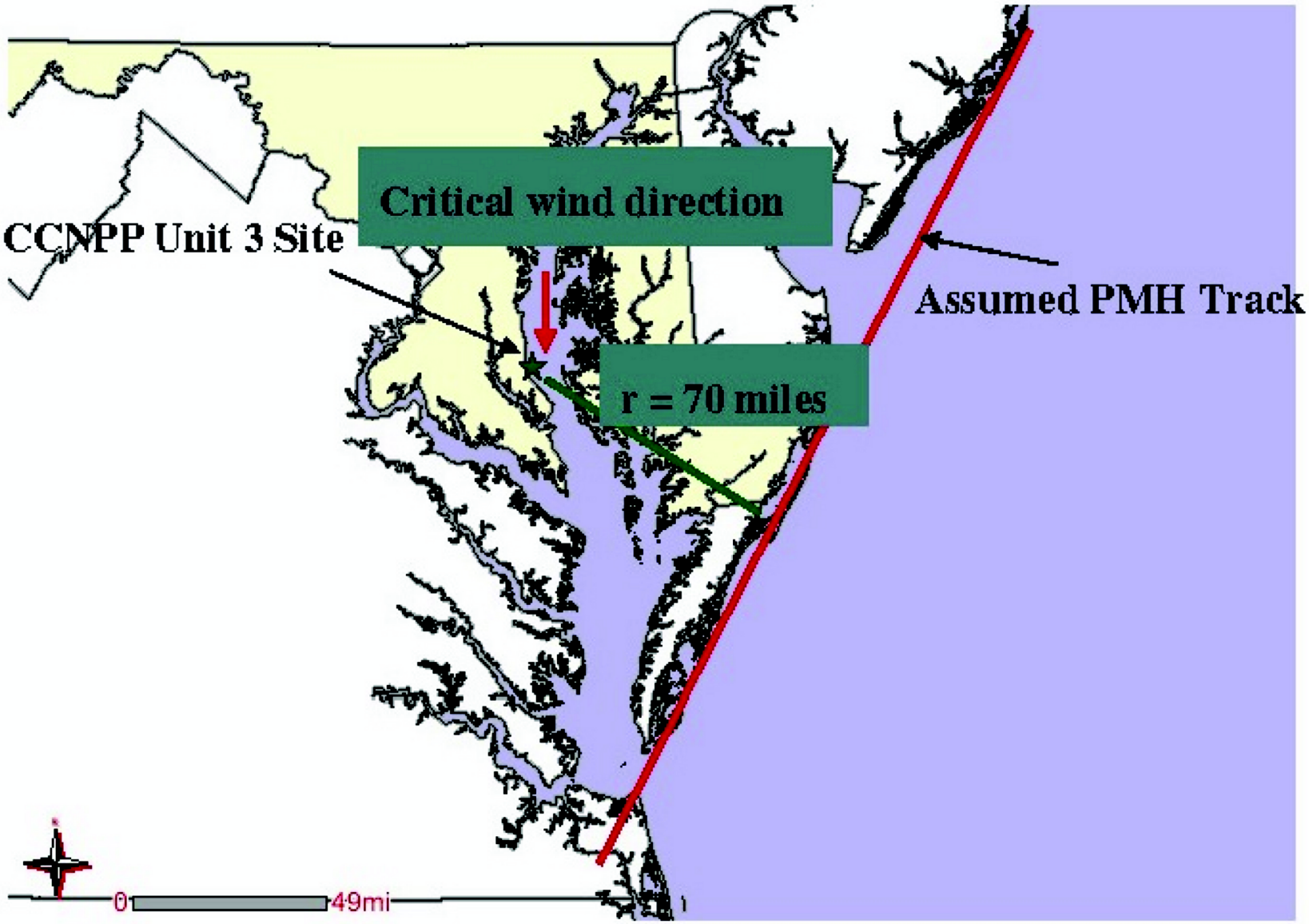

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Figure 2.4-53—{CCNPP Unit 3} Site Location}

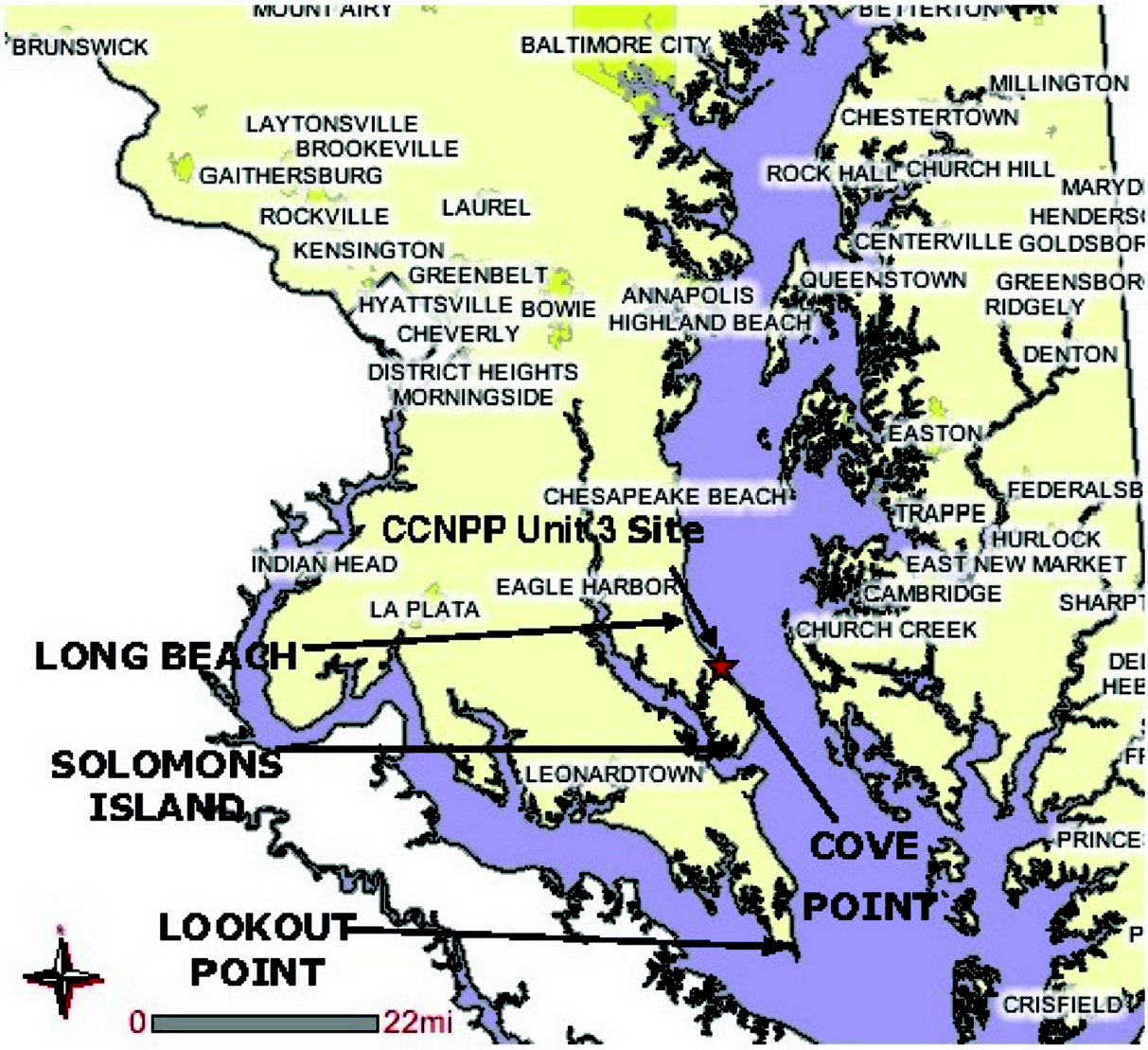

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Figure 2.4-54—{Low Water Level Data Of Annapolis Station And The Curve Fitted By Visual Inspection}

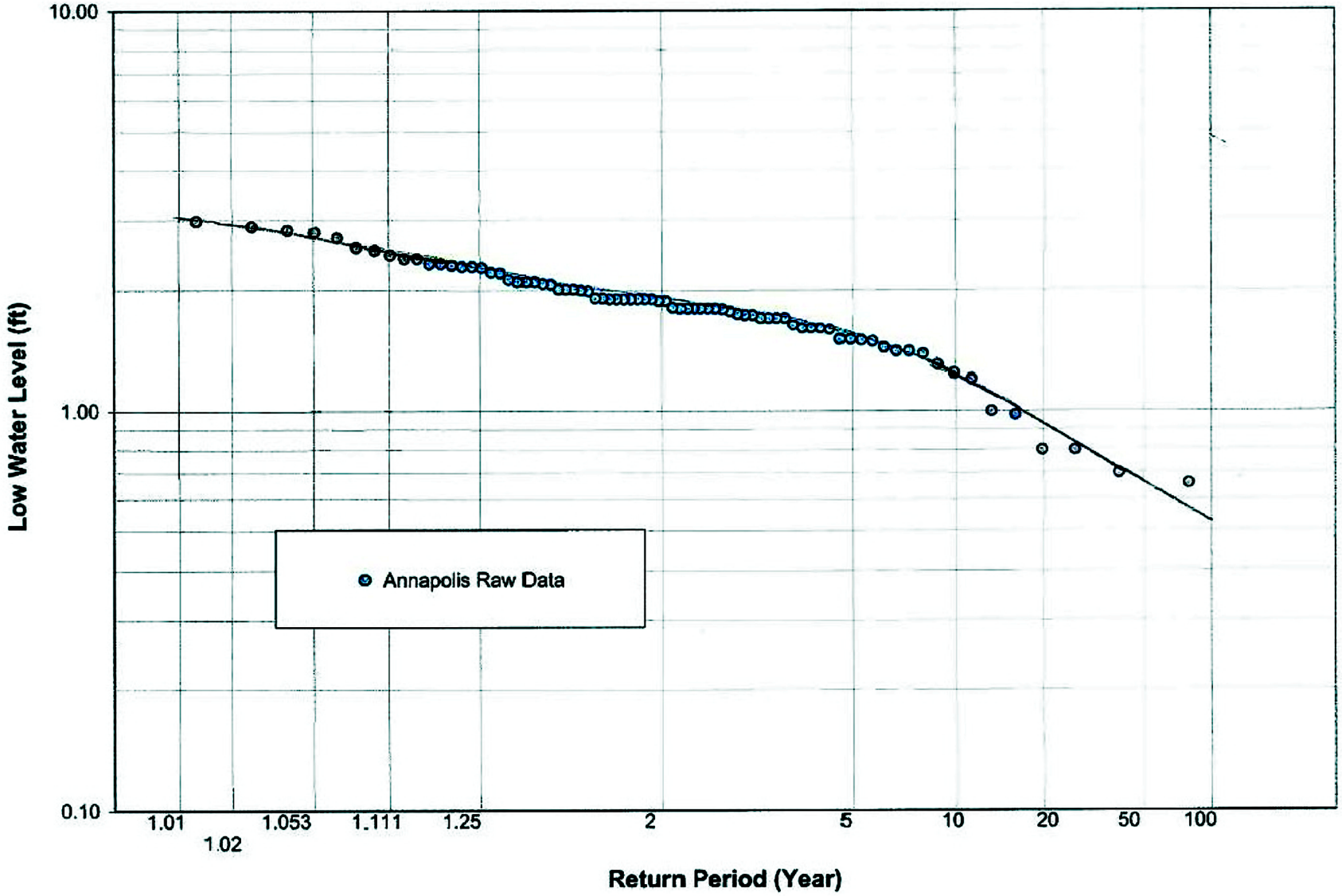

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Figure 2.4-55—{Location of CCNPP 200-Mile (320-Km) Radius From the Plant Site}

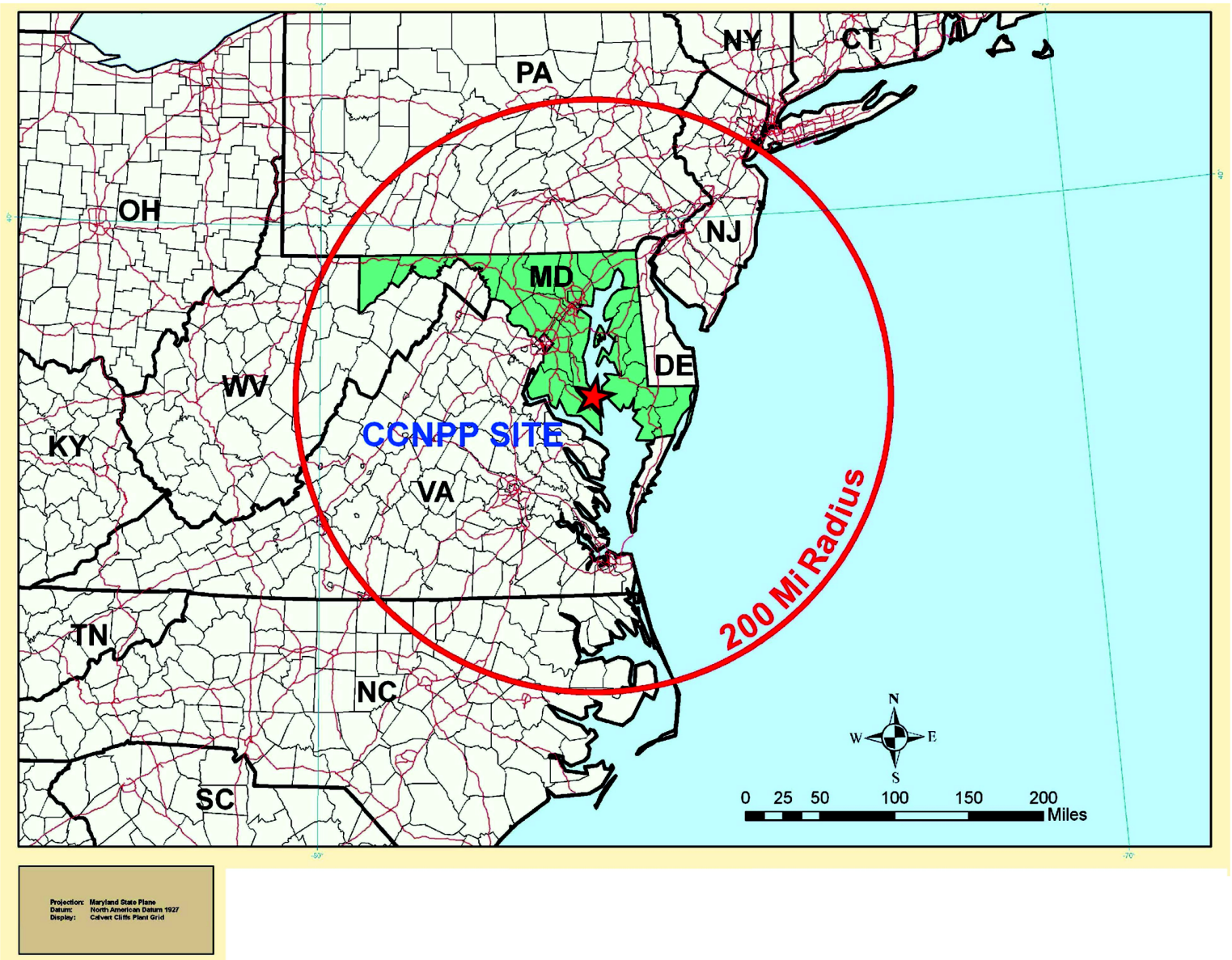

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Figure 2.4-56—{Mid-Atlantic Regional Physiographic Provinces and Hydrostratigraphic Units}

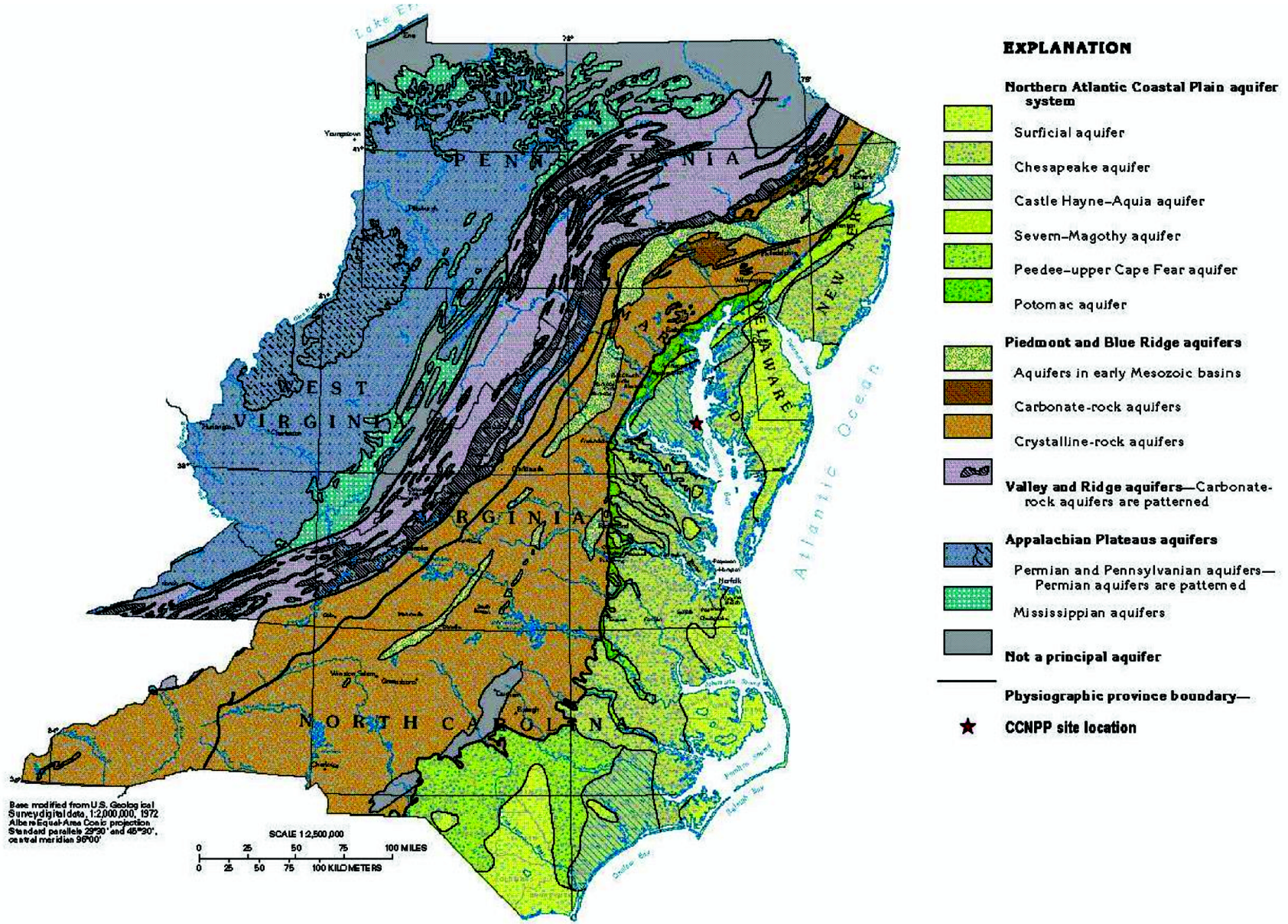

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Figure 2.4-57—{Schematic Geologic Cross Section Through the Mid-Atlantic Region}

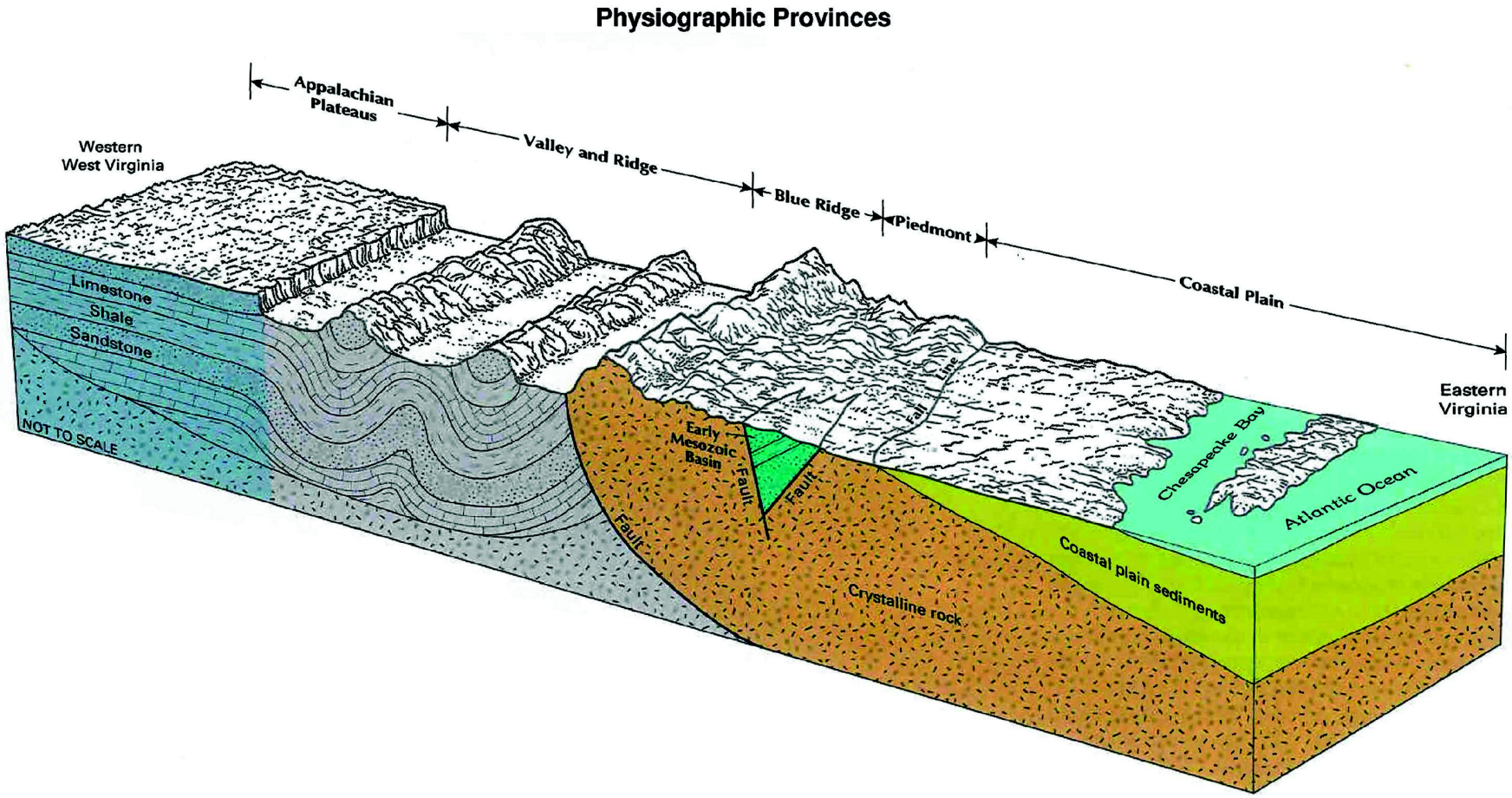

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Figure 2.4-58—{Southern Maryland Schematic Hydrostratigraphic Section}

ERATHEM	SYSTEM	SERIES	FORMATION		THICKNESS (feet)	LITHOLOGY	HYDROSTRATIGRAPHIC UNIT
CENOZOIC	QUATERNARY	Holocene & Pleistocene	Lowland deposits		0-150	Sand, gravel, sandy clay, and clay.	SURFICIAL AQUIFER
	NEOGENE	Pliocene	Upland deposits		0-85	Irregularly stratified cobbles, gravel, sand, and clay lenses.	
		Miocene	Chesapeake Group	St. Mary's Fm.	0-335	Sand, clayey sand, and sandy clay; fossiliferous and diatomaceous.	CHESAPEAKE CONFINING UNIT
				Choptank Fm.			
				Calvert Fm.			
	PALEOGENE	Oligocene		Unnamed Oligocene Beds	0-5	Patchy distribution; clayey, glauconitic sand.	PINEY POINT-NANJEMOY AQUIFER
		Eocene	Pamunkey Group	Piney Point Fm.	0-90	Sand, slightly glauconitic, with intercalated indurated layers; fossiliferous.	
				Nanjemoy Fm.	0-240	Glauconitic sand with clayey layers.	
		Paleocene		Marlboro Clay	0-30	Pink and gray clay.	NANJEMOY CONFINING UNIT
				Aquia Fm.	30-205	Glauconitic, greenish to brown sand with indurated layers; fossiliferous.	AQUIA AQUIFER
				Brightseat Fm.	0-40	Gray to dark-gray micaceous silty and sandy clay.	BRIGHTSEAT CONFINING UNIT
MESOZOIC	CRETACEOUS	Upper	Monmouth Group / Matawan Group	Formations undifferentiated	20-105	Sandy clay and sand, dark gray to black, with minor glauconitic; fossiliferous.	
			Magothy Fm.		0-230	Light gray to white sand and fine gravel with interbedded clay layers; contains pyrite and lignite. Includes two sand units in southern Anne Arundel County where the formation is the thickest.	MAGOTHY AQUIFER
		Lower	Potomac Group	Patapsco Fm.	0-1,200	Interbedded sand, clay, and sandy clay; color variegated, but chiefly hues of red, brown and gray; consists of several sandy intervals that function as separate aquifers.	Patapsco aquifer system: UPPER PATAPSCO CONFINING UNIT; UPPER PATAPSCO AQUIFER; MIDDLE PATAPSCO CONFINING UNIT; LOWER PATAPSCO AQUIFER
				Arundel Fm.	0-400	Red, brown, and gray clay; in places contains ironstone nodules, carbonaceous remains, and lignite.	ARUNDEL CONFINING UNIT
				Patuxent Fm.	100-600	Interbedded gray and yellow sand and clay; kaolinized feldspar and lignite common. Locally clay layers predominate.	PATUXENT AQUIFER
PALEOZOIC / PRECAMBRIAN	Undifferentiated pre-Cretaceous consolidated-rock basement				Unknown	Igneous and metamorphic rocks; sandstone and shale.	NOT RECOGNIZED

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Figure 2.4-59—{Schematic Cross-Section of Southern Maryland Hydrostratigraphic Units}

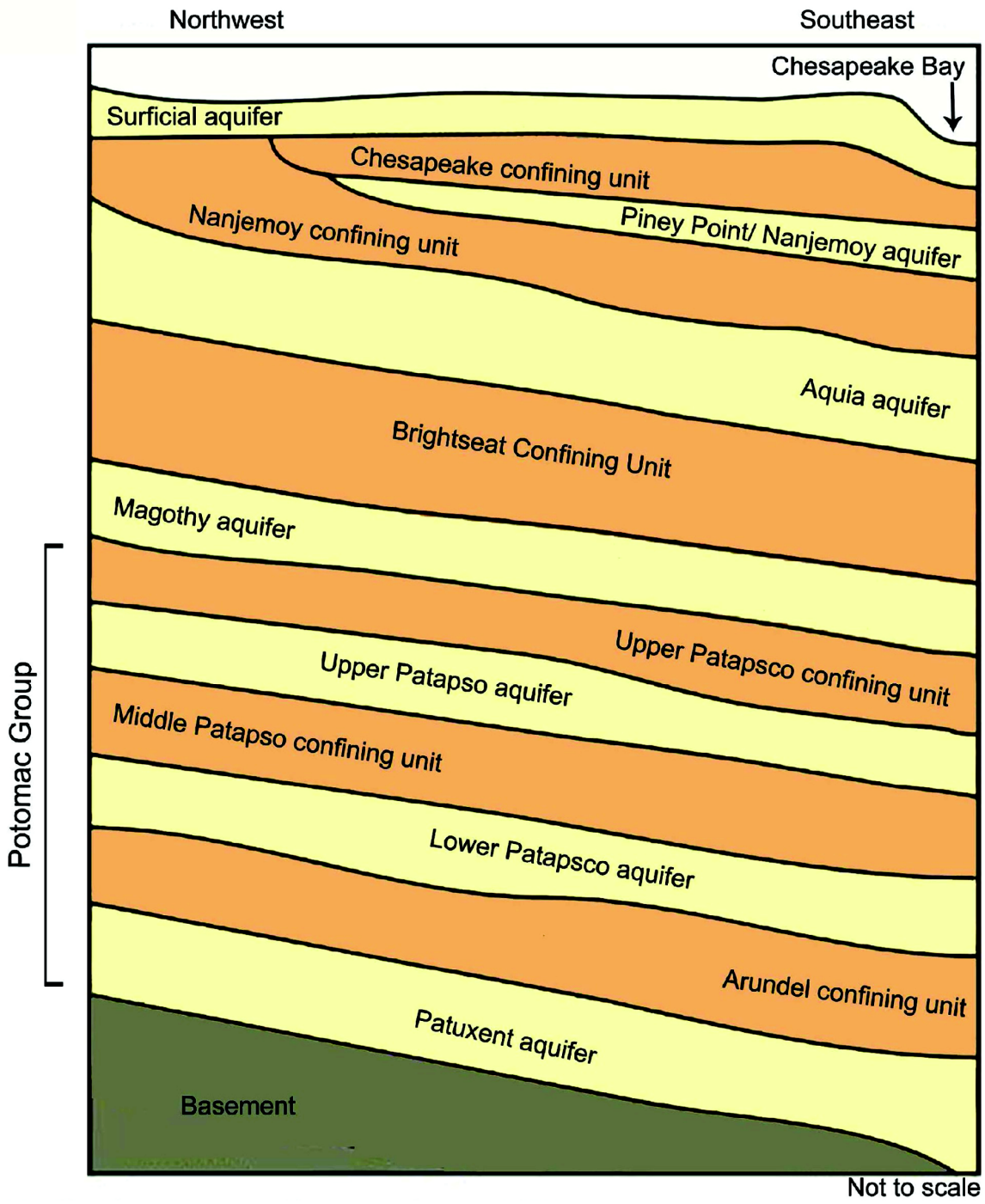

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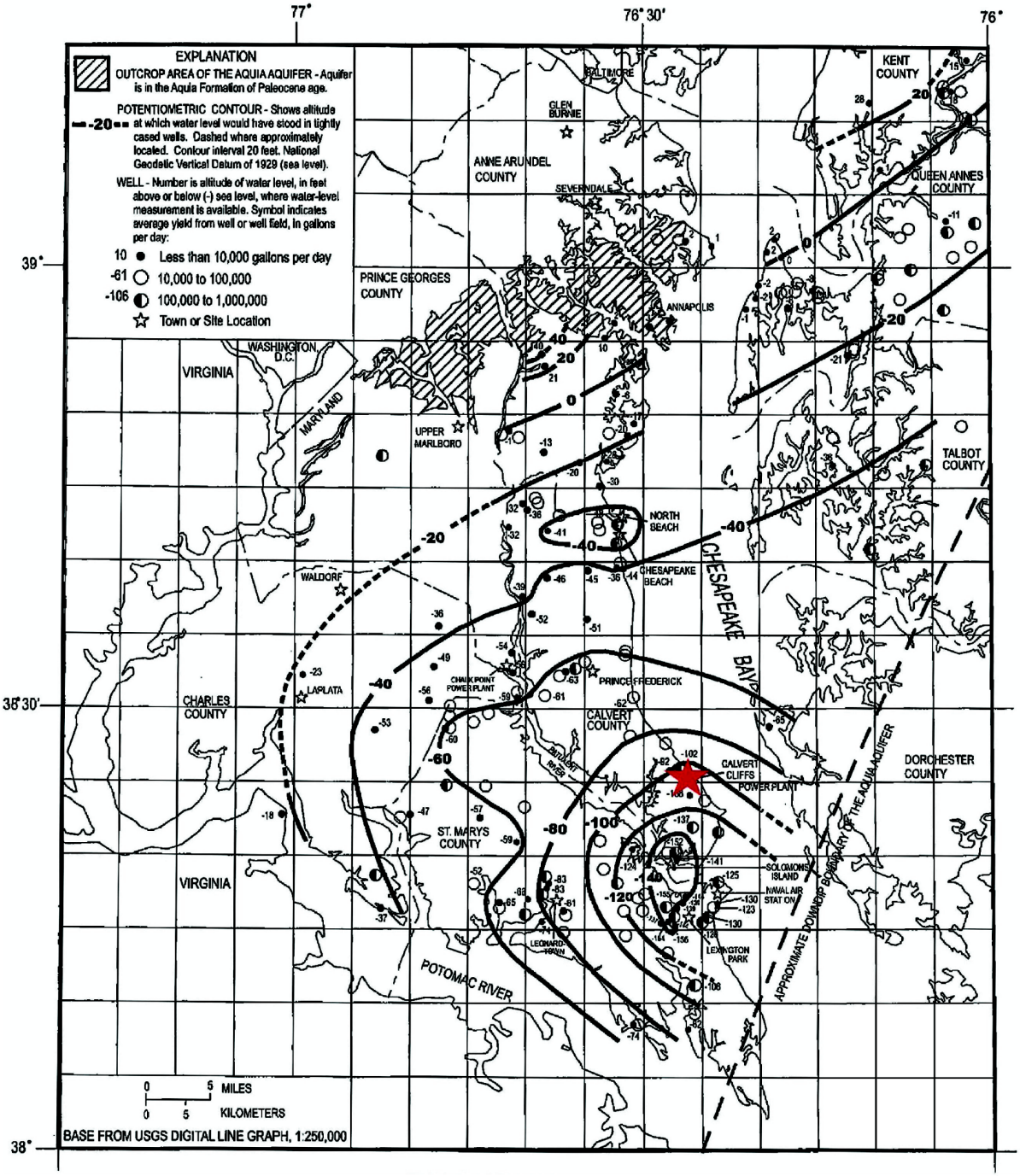
Figure 2.4-60—{Potentiometric Surface of the Aquia Aquifer in Southern MD, September 2003}



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