

		Formation/Unit		Primary Lithologies		Geologic Conditions	Unit Thickness	Occurrence in Site Area	
CENOZOIC	Quaternary	Holocene	Quaternary Marsh deposits		muck and peat; silt, sand and clay		aggradation of Delaware Bay estuary	variable thickness	present over most of the site area in low lying areas
		Pleistocene	~~~~~ unconformity ~~~~~						
			Delaware Bay Group	DELAWARE	NEW JERSEY				
	Scotts Corners Formation			Cape May Formation	estuarine terrace deposits with coarse to fine sand and pebbles with concentrations of heavy minerals; peat; isolated fluvial deposits?		transgressive and regressive cycles	variable thickness	outcrops in eastern and western portions of the site area
	~~~~~ unconformity ~~~~~								
	Lynch Heights Formation								
	~~~~~ unconformity ~~~~~						regression and erosion		
	Tertiary	Upper Tertiary (Miocene)	Kirkwood Formation		clay silt and sand deposited in two or three marine cycles		polycyclic transgression and regression phases	90 feet at southern portions of site area; pinches out northward	subcrop only
			~~~~~ unconformity ~~~~~				regression and erosion		
		Lower Tertiary	Shark River Formation		glauconitic sand and mudstone		low sediment input	70 feet (Reference 2.6-10)	subcrop only
			~~~~~ unconformity ~~~~~				regression and erosion		
			Manasquan Formation		lower glauconitic member; upper clayey sand to silt member		low sediment input and bioturbation	40 feet (Reference 2.6-10)	subcrop only
			~~~~~ unconformity ~~~~~				regression and erosion		
	Vincentown Formation		quartz sand to quartz-rich calcareous sand with bryozoans and foraminifera		low sediment input and extreme bioturbation	90 feet (Reference 2.6-10)	outcrops in NW site area		
Hornerstown Formation		highly glauconitic sand with distinctive green color		30 feet (Reference 2.6-10)					
MESOZOIC	Cretaceous	Upper Cretaceous	Navesink		fossiliferous, clayey glauconitic sand		transgression to midshelf conditions	20 feet (Reference 2.6-10)	subcrop only
			Mount Laurel Formation		thinly bedded clays and sands with cross-bedding; thin pebbly sands		regressive pulse; low sediment input	100 feet (Reference 2.6-10)	subsurface only
			Wenonah Formation		clayey, silty, slightly glauconitic fine sand		transgression; low sediment input	20 feet (Reference 2.6-10)	
			Marshalltown Formation		intensely burrowed, very silty fine sand with glauconite		regressive pulse	25 feet (Reference 2.6-10)	
			Englishtown Formation		micaceous silt to very fine sand		transgression and establishment of widespread marine conditions; low sediment rates	120 feet (Reference 2.6-10)	
			Woodbury Formation		micaceous, chloritic, silty clay		transition to marine conditions	50 feet, pinches out north of site location (Reference 2.6-10)	
			Merchantville Formation		glauconitic sand to micaceous silty clay		regression and erosion		
			Magothy Formation		beach and estuarine deposits of cross-bedded sand, with clay and silt layers; some lignite				
		~~~~~ unconformity ~~~~~							
		Lower Cretaceous	Potomac Group (Formation)		white, gray and red interbedded silts, clays, and quartzose sand		aggrading alluvial plain; thermal subsidence	800 to 1650 feet (Reference 2.6-10)	subsurface only
~~~~~ pre-Cretaceous unconformity ~~~~~					uplift and erosion				
Triassic	Upper Triassic	<b>Basement Complex</b>				Amalgamation of Pangea followed by rifting to form North America	undetermined		
		Triassic Basin?		Fanglomerates and lacustrine sediments; diabase volcanics					
PRECAMBRIAN? PALEOZOIC?	Proterozoic? Paleozoic?	NeoProterozoic to Silurian?	Carolina Superterrane?	Philadelphia Terrane?	meta mafic to felsic plutons and volcanics with sediments, and ultramafic components	aluminous to quartz-rich schist with interbedded amphibolites (Wissahickon Formation) with ultramafic components; Wilmington Complex felsic to mafic arc complex			

PSEG Power, LLC  
PSEG Site ESPA  
Part 3, Environmental Report  
Site Area Stratigraphy  
FIGURE 2.6-3  
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