

Era	System	Series	Stratigraphic Unit		Predominant Lithology			
CENOZOIC	Quaternary	Holocene	alluvial, coastal, marsh, and eolian deposits		sand, gravel, silt, mud, and peat			
		Pleistocene	COASTAL AREAS Wisconsin alluvium, Cape May Formation, colluvium	INLAND, NORTHERN NEW JERSEY Wisconsin and pre-Wisconsin alluvial, colluvial, glacial, lacustrine, and eolian deposits	sand, gravel, silt, clay (statewide), till and till-like deposits (northern New Jersey)			
	Tertiary	Miocene	Pensauken Formation		sand, clayey silt			
			Bridgeton Formation					
			Beacon Hill Gravel		gravel, sand			
			Cohansey Sand		sand, some clayey silt			
			Kirkwood Formation		sand, gravel, clayey silt			
		Oligocene	ACGS Beta Unit (Piney Point)		sand, some glauconitic sand			
			Mays Landing Unit					
		Eocene	Shark River Formation		clayey silt, fine quartz sand, glauconitic sand			
			Manasquan Formation					
	Paleocene	Vincentown Formation		sand, clayey silt, glauconitic sand, calcarenite				
		Hornerstown Formation		glauconitic sand				
MESOZOIC	Cretaceous	Upper Cretaceous	Tinton Sand		sand, glauconitic sand			
			Red Bank Sand		sand, clayey silt, some glauconite sand			
			Navesink Formation		glauconite sand			
			Mount Laurel Sand		sand			
			Wenonah Formation		silty sand, some glauconite			
			Marshalltown Formation		clayey silt, glauconitic sand			
			Englishtown Formation		sand, clayey silt			
			Woodbury Clay		clayey silt			
			Merchantville Formation		clayey silt, glauconitic sand			
			Magothy Formation		sand, clayey silt			
		Raritan Formation						
	Lower Cretaceous	Potomac Group		gravel, sand, silt, clay				
	Jurassic	Lower Jurassic	Newark Supergroup	Brunswick Group	Boonton Formation		sandstone, siltstone, shale, conglomerate	
					Hook Mountain Basalt		basalt	
					Towaco Formation		sandstone, siltstone, shale, conglomerate	
					Preakness Basalt		basalt, intercalated sedimentary rock	
					Feltville Formation		sandstone, siltstone, shale, conglomerate, limestone	
					Orange Mtn. Basalt	diabase intrusives	basalt	diabase
					Passaic Formation		sandstone, siltstone, shale, conglomerate	
	Triassic	Upper Jurassic		Lockatong Formation		siltstone, mudstone, sandstone, shale		
				Stockton Formation		arkosic sandstone, siltstone, shale, conglomerate		

		VALLEY AND RIDGE		
		Stratigraphic unit	Predominant lithology	
PALEOZOIC	Devonian			
		Marcellus Shale	shale, siltstone	
		Buttermilk Falls Limestone	argillaceous limestone	
		Schoharie Formation	calcareous siltstone	
		Esopus Formation	siltstone, sandstone	
		Oriskany Group	Ridgely Sandstone	sandstone, calcareous conglomerate
			Shriver Chert	shale, siltstone, chert
			Glenerie Formation	limestone
		Helderburg Group	Port Ewen Shale	calcareous shale, siltstone
			Minisink Limestone	limestone, calcareous shale
			New Scotland Formation	calcareous silty shale
			Coeymans Formation	limestone, sandstone, conglomerate
			Rondout Formation	limestone, calcareous shale, dolomite
	Silurian	Decker Formation	calcareous sandstone, silty limestone	
		Bossardville Limestone	argillaceous, partly dolomitic limestone	
		Poxono Island Formation	calcareous shale, dolomite	
		Bloomsburg Red Beds	shale, siltstone, sandstone	
		Shawangunk Formation	conglomeratic quartzite	
		GREEN POND MOUNTAIN REGION		
		Stratigraphic unit	Predominant lithology	
		Skunnemunk Conglomerate	conglomerate	
		Bellvale Sandstone	sandstone, siltstone, shale	
		Cornwall Shale	shale, siltstone	
		Kanouse Sandstone	conglomeratic sandstone, siltstone	
		Esopus Formation	siltstone, sandstone	
		Connelly Conglomerate	conglomeratic quartzite	
		Berkshire Valley Formation	calcareous siltstone, silty dolomite, sandstone	
		Poxono Island Formation	calcareous shale, dolomite	
		Longwood Shale	shale, siltstone	
		Green Pond Conglomerate	conglomeratic quartzite, siltstone	

			Stratigraphic Unit				Predominant Lithology			
PALEOZOIC	Ordovician		Beemerville intrusive complex				nepheline syenite, intrusive alkalic igneous rocks			
			Martinsburg Formation				slate, siltstone, graywacke			
		Middle Ordovician	Jacksonburg Limestone				Jutland klippe units (not part of Kittatinny Supergroup)	limestone, argillaceous limestone		shale, limestone, chert (Jutland)
		Lower Ordovician	Beekman-town Group	Ontelaunee Formation		dolomite, limestone (Ontelaunee, Epler)				
				Epler Formation						
				Rickenbach Dolomite						
		Cambrian	Upper Cambrian	Allentown Dolomite				dolomite, calcareous limestone		
			Middle Cambrian	Leithsville Formation				dolomite, calcareous shale		
	Lower Cambrian		Hardyston Quartzite				arkosic quartzite, conglomerate (Hardyston)			
	?	Ordovician (?) Cambrian (?) Late Proterozoic (?)		Manhattan Schist, Wissahickon Formation, serpentinite, Chickies Quartzite				sillimanite-garnet-muscovite-biotite schist (Manhattan); schist, metagraywacke, amphibolite, altered ultramafics (Wissahickon); highly sheared serpentinite preserving few original igneous structures; quartz-sericite schist, conglomerate (Chickies)		
PROTEROZOIC	Late Proterozoic (?)		Chestnut Hill Formation				greenschist-grade sedimentary and metavolcanic (?) rock			
	Middle Proterozoic	Byram Intrusive Suite, Lake Hopatcong Intrusive Suite, Mount Eve Granite				granite, quartz syenite, syenite, quartz monzonite, monzonite, and granodiorite				
		metasedimentary rocks				quartzofeldspathic and calcareous metasedimentary rocks including the Franklin and Wildcat Marbles				
		Losee Metamorphic Suite				highly sodic gneissic and granitoid rocks; amphibolite				

from New Jersey Geological Survey, 1990
(Reference 2.5.1-141)

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

Generalized Stratigraphic Table
for New Jersey
FIGURE 2.5.1-11

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