

		Formation/Unit	Lithologies	Thickness
QUATERNARY	Holocene (recent)	Artificial fill	clays, silts, and sands of various proportions along with clayey and silty gravels	4.1 ± 5.1 feet
		Hydraulic fill	soft clayey silts, sandy silts and organic clays	33.5 ± 12.3 feet
	Pleistocene	Alluvium	fine to coarse sand and gravel; peat and organic rich soils; silt and clay near base	12.7 ± 12.3 feet
		~~~~~ unconformity ~~~~~		
TERTIARY	Upper Tertiary (Neogene)	Kirkwood Formation	<i>Upper member:</i> greenish-gray, silty, fine sand, fine sand and greenish-gray to brown organic clay with organic material and shell fragments; <i>Lower member:</i> fine to coarse sand and gravel with variable amounts of silt and clay	<i>Upper member:</i> 14.5 ± 7.7 feet; <i>Lower member:</i> 7.2 ± 7.8 feet
		~~~~~ unconformity ~~~~~		
	Lower Tertiary (Paleogene)	Vincentown Formation	greenish-gray, fine to medium grained silty sand with some zones of clayey sand; variably glauconitic; cemented zones	52.0 ± 26.1 feet
		Hornerstown Formation	greenish-gray to dark green silty and clayey quartz and glauconitic sand with indurated zones	18.6 ± 3.2 feet
CRETACEOUS	Upper Cretaceous	Navesink Formation	fossiliferous, dark green to greenish-black glauconitic sand; pelecypod fragments	24.3 ± 2.3 feet
		Mount Laurel Formation	brownish gray to dark green, fine to coarse grained sand; variable amounts of silt and clay; coarsening upward sequence	10.3 ± 3.5 feet
		Wenonah Formation	sandy clay with clayey sand	15 feet
		Marshalltown Formation	glauconitic, silty and clayey fine sand	25 feet
		Englishtown Formation	dark gray to black sandy clay to clayey sand with shell fragments grades to black silt with trace amounts of mica and glauconite	44 feet
		Woodbury Formation	black, micaceous clay	36 feet
		Merchantville Formation	dark greenish-black glauconitic silts and clays with variable amounts of sand	30 feet
		Magothy Formation	interbeds of gray to dark gray, locally mottled silts and clays that are interbedded with sands; trace amounts of lignite and carbonaceous material	52 feet
		~~~~~ unconformity ~~~~~		
	Lower Cretaceous	Potomac Group (Formation)	red, gray, and white mottled clay	1300 feet (Reference 2.5.1-17) PSEG No. 6 Production Well
		~~~~~ pre-Cretaceous unconformity ~~~~~		
PRECAMBRIAN TO PALEOZOIC	NeoProterozoic to Paleozoic	Basement Complex		
		Philadelphia Terrane	Wissahickon Schist – reported as residual clay (PSEG No. 6 Production Well)	undetermined

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Part 2, Site Safety Analysis Report

Site Location Stratigraphy

FIGURE 2.5.1-34

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