

| ERA      | PERIOD     | EPOCH             | SITE STRATIGRAPHIC UNIT     | LITHOLOGIES  | HYDROGEOLOGIC PROPERTIES  |
|----------|------------|-------------------|-----------------------------|--|---|
| CENOZOIC | QUATERNARY | HOLOCENE (RECENT) | ARTIFICIAL & HYDRAULIC FILL | AF - clays, silts, and sands of various proportions along with clayey and silty gravels.   | Leaky confining units   |
|          |            |                   |                             | HF - soft clayey silts, sandy silts, and organic clays.  |   |
|          |            | UNCONFORMITY      |                             |  |   |
|          |            | PLEISTOCENE       | ALLUVIUM                    | Fine to coarse sand and gravel; peat and organic rich soils; silt and clay near base.  | Upper portion is a water-bearing zone; lower silts and clays, when present, act as a leaky confining unit   |
|          |            | UNCONFORMITY      |                             |  |   |
|          | NEOGENE    | MIOCENE           | KIRKWOOD FORMATION          | Upper - greenish-gray, silty, fine sand, fine sand and greenish-gray to brown organic clay with organic material and shell fragments.                | Leaky confining unit  |
|          |            |                   |                             | Lower - fine to coarse sand and gravel with variable amounts of silt and clay.   | Water-bearing zone, part of the Vincentown aquifer  |
|          |            | UNCONFORMITY      |                             |  |   |
|          | PALEOGENE  | PALEOCENE         | VINCENTOWN FORMATION        | Greenish-gray, fine to medium grained silty sand with some zones of clayey sand; variably glauconitic; cemented zones.                               | Water-bearing zone  |
|          |            |                   | HORNERSTOWN FORMATION       | Greenish-gray to dark green, silty and clayey quartz and glauconitic sand with indurated zones.  | Upper portion is a water-bearing zone and part of the Vincentown Aquifer. Lower portion, along with the Navesink Formation act as a leaky confining unit. |
| MESOZOIC | CRETACEOUS | UPPER CRETACEOUS  | NAVESINK FORMATION          | Fossiliferous, dark green to greenish-black, glauconitic sand; pelecypod fragments.  | Leaky confining unit  |
|          |            |                   | MOUNT LAUREL FORMATION      | Brownish gray to dark green, fine to coarse grained sand; variable amounts of silt and clay; coarsening upward sequence.                             | Water-bearing zone, with the Wenonah Formation comprise the Wenonah-Mt. Laurel Aquifer  |
|          |            |                   | WENONAH FORMATION           | Sandy clay with clayey sand.   | Water-bearing-zone  |
|          |            |                   | MARSHALLTOWN FORMATION      | Glauconitic, silty and clayey fine sand.   | Confining unit  |
|          |            |                   | 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.                  | Water-bearing zone  |
|          |            |                   | WOODBURY FORMATION          | Black, micaceous clay.   | Confining unit  |
|          |            |                   | MERCHANTVILLE FORMATION     | Dark greenish-black, glauconitic silts and clays with variable amounts of sand.  | Confining unit  |
|          |            |                   | 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. | Water-bearing zone  |
|          |            |                   | UNCONFORMITY                |  |   |
|          |            | LOWER CRETACEOUS  | POTOMAC FORMATION           | Red, gray, and white mottled clay.   | Confining unit  |

PSEG Power, LLC

PSEG Site ESPA  
Part 3, Environmental Report

Hydrostratigraphic Classification  
for the PSEG Site

FIGURE 2.3-18

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