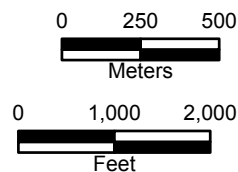


Reference: 2.3-54

Legend

- Site Location
- Plant Discharge
- Surface Temperature (deg C) Contour
- Site Boundary
- Adjacent Off-site Area
- Causeway



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Contours of Modeled Surface
Temperatures for Slack Phase
(End of Flood Tide) on May 29, 1998

FIGURE 2.3-13

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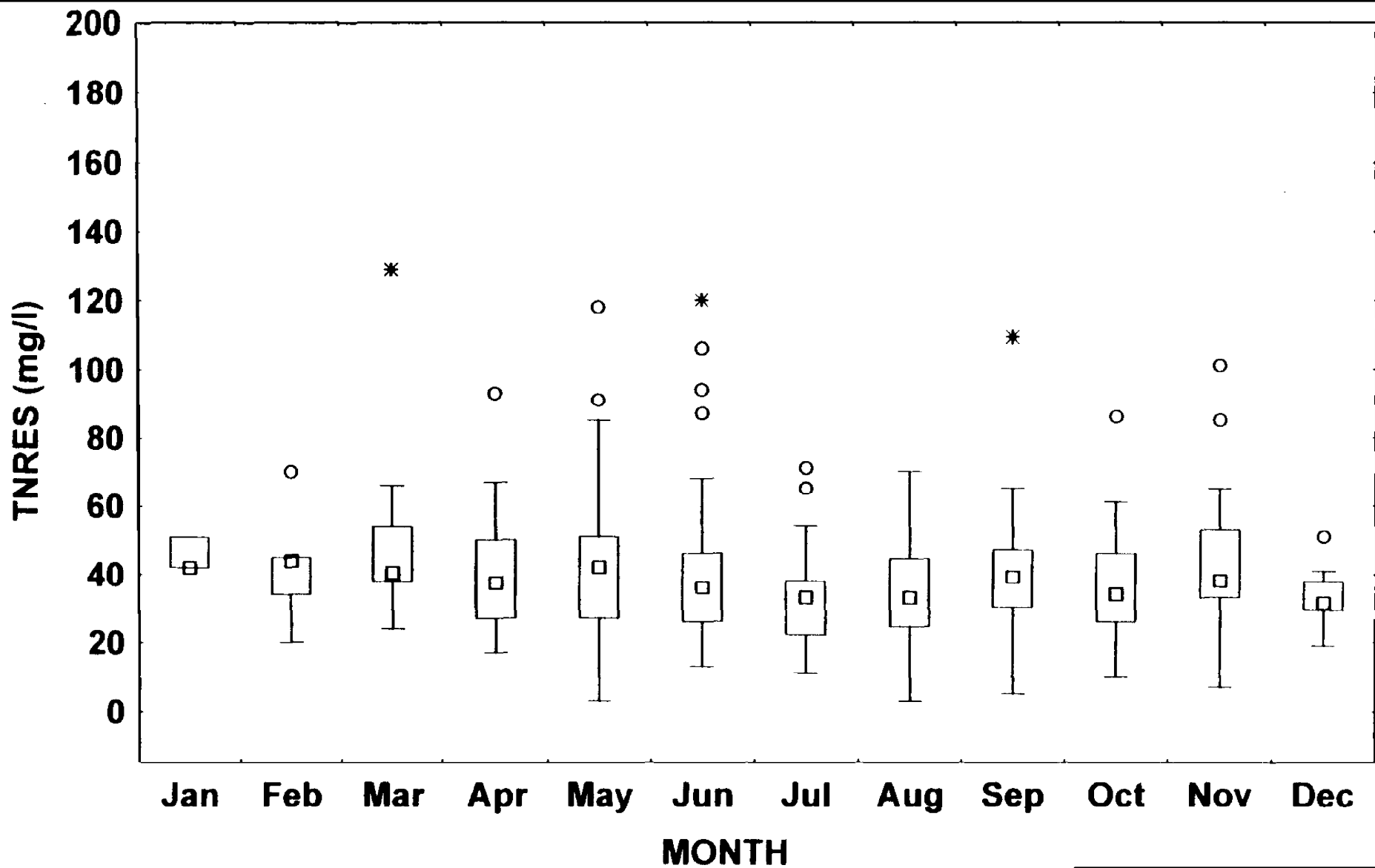
United States Nuclear Regulatory Commission Official Hearing Exhibit

In the Matter of: PSEG POWER, LLC AND PSEG NUCLEAR, LLC
(Early Site Permit Application)

ASLBP #: 15-943-01-ESP-BD01
Docket #: 05200043
Exhibit #: PSEG004U-MA-BD01
Admitted: 03/24/2016
Rejected:
Other:

Identified: 03/24/2016
Withdrawn:
Stricken:





LEGEND

- Non-Outlier Max
- Non-Outlier Min
- 75%
- 25%
- Median
- Outliers
- Extremes

Reference: 2.3-54

Note - TNRES is total non-filterable residue, equivalent to TSS

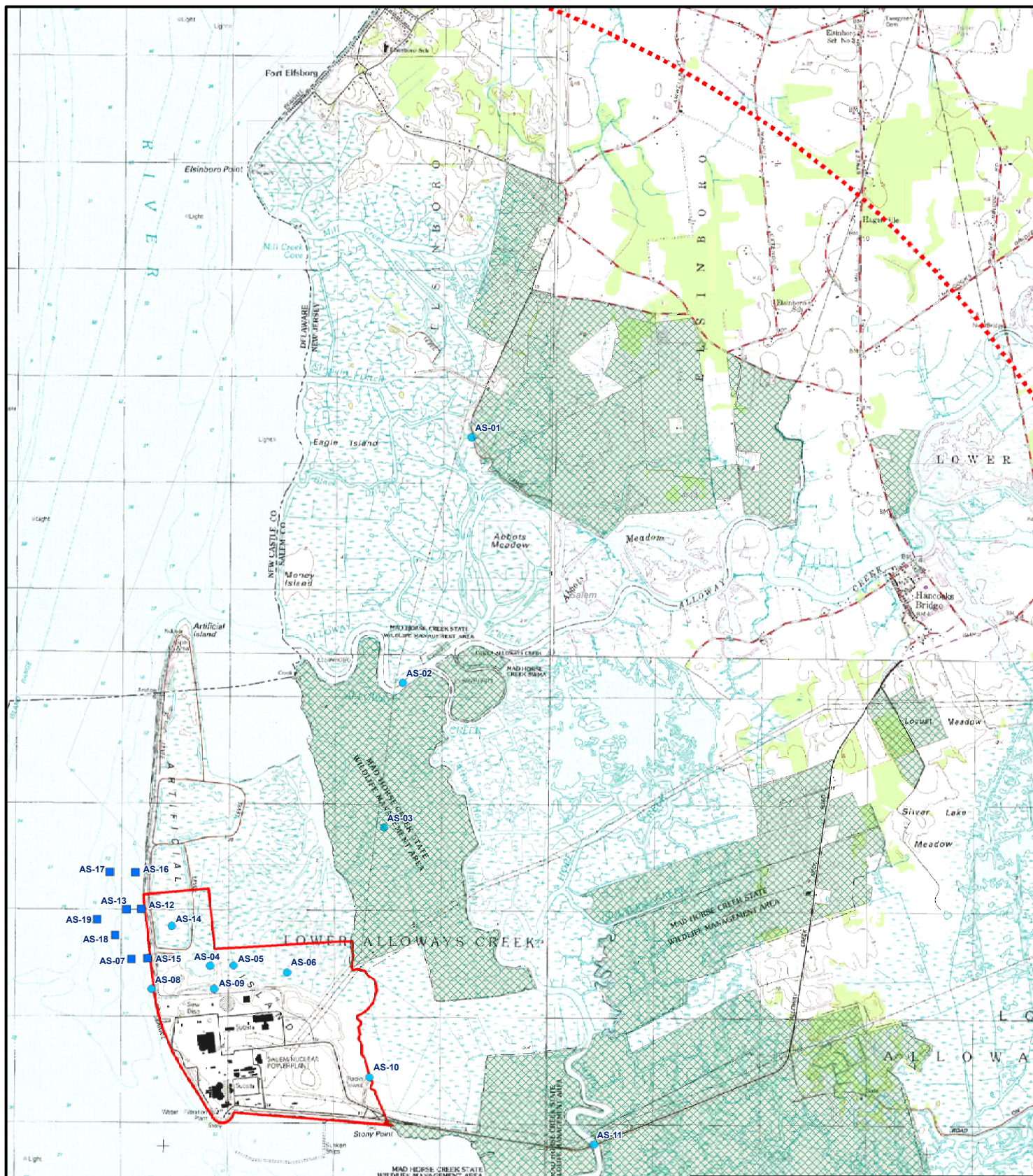
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Monthly TSS Concentrations
near PSEG Site

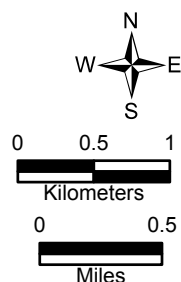
FIGURE 2.3-14

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LEGEND

- Surface Water Quality
- Sediment
- Federal/State Owned Land
- Site Boundary
- Vicinity Boundary (6-mile)



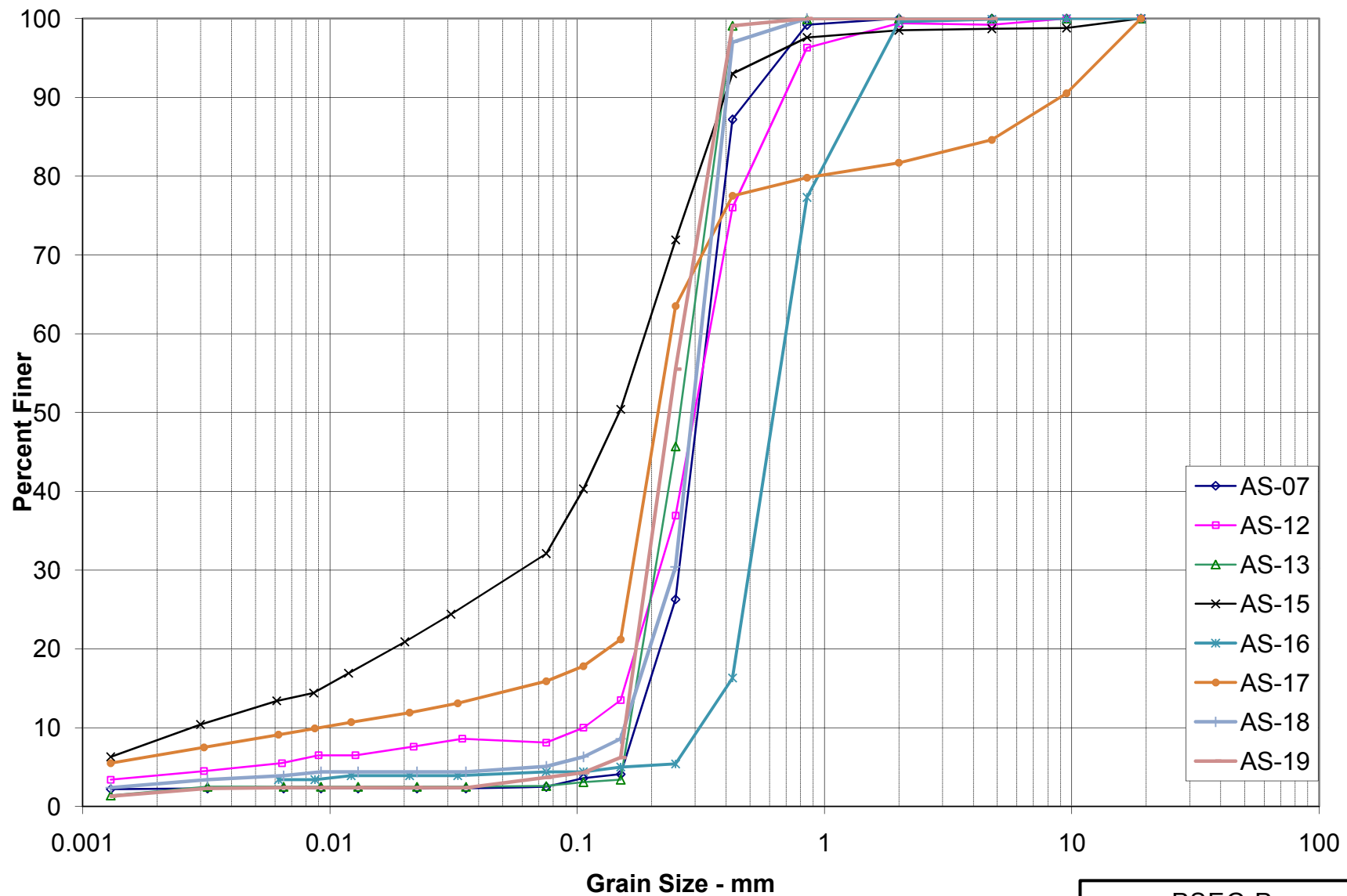
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Surface Water and
Sediment Grain-Size
Sampling Locations

FIGURE 2.3-15

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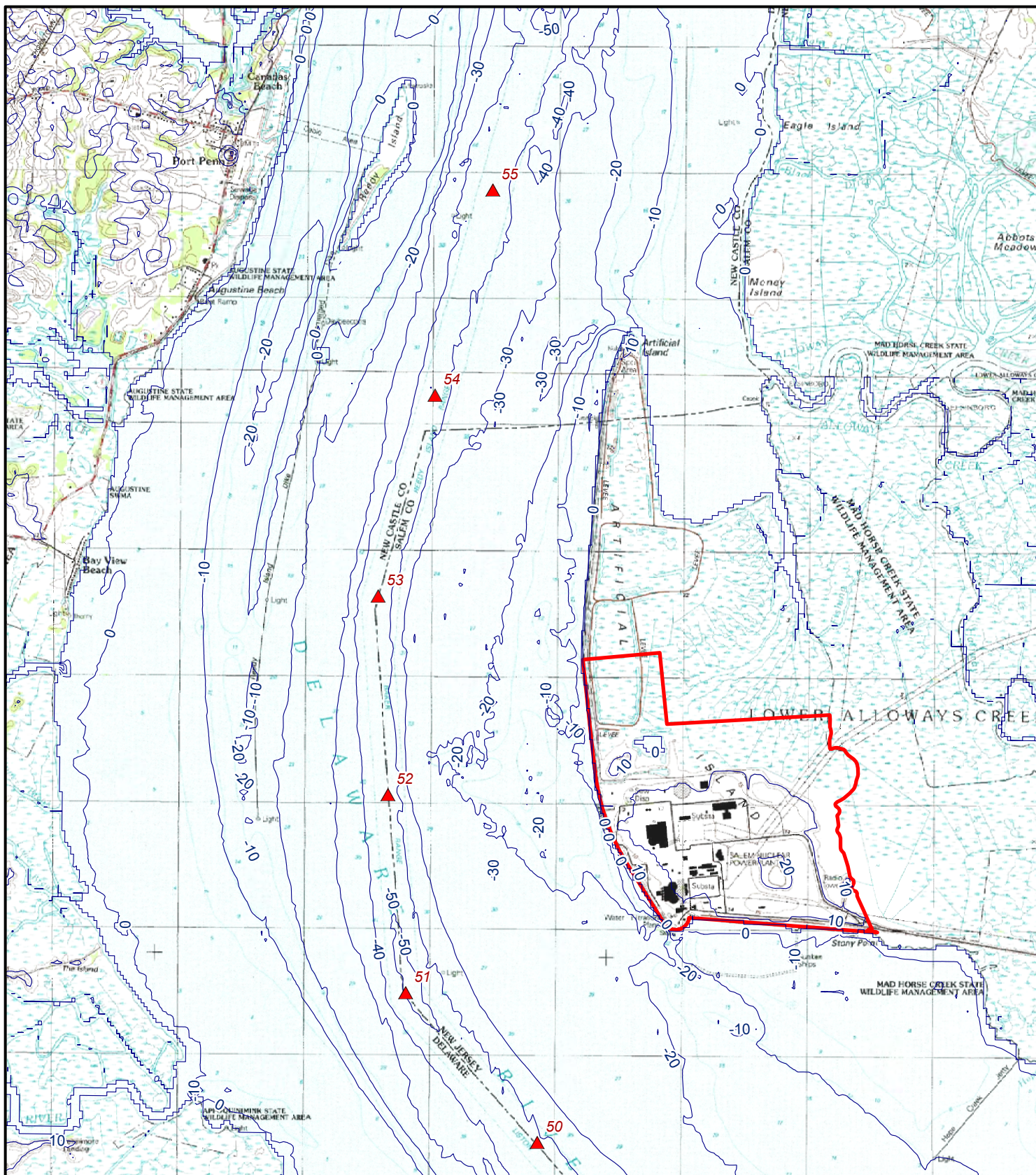
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Grain Size Distribution -
Estuary Sediments (0-6 inches)

FIGURE 2.3-16

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LEGEND

- ▲ Delaware River Miles
- ~ 10 Foot Contour
- Site Boundary



0 0.5 1
Kilometers

0 0.5
Miles

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Delaware River Bathymetric
Map - RM 51 to RM 55

FIGURE 2.3-17

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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.
	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	

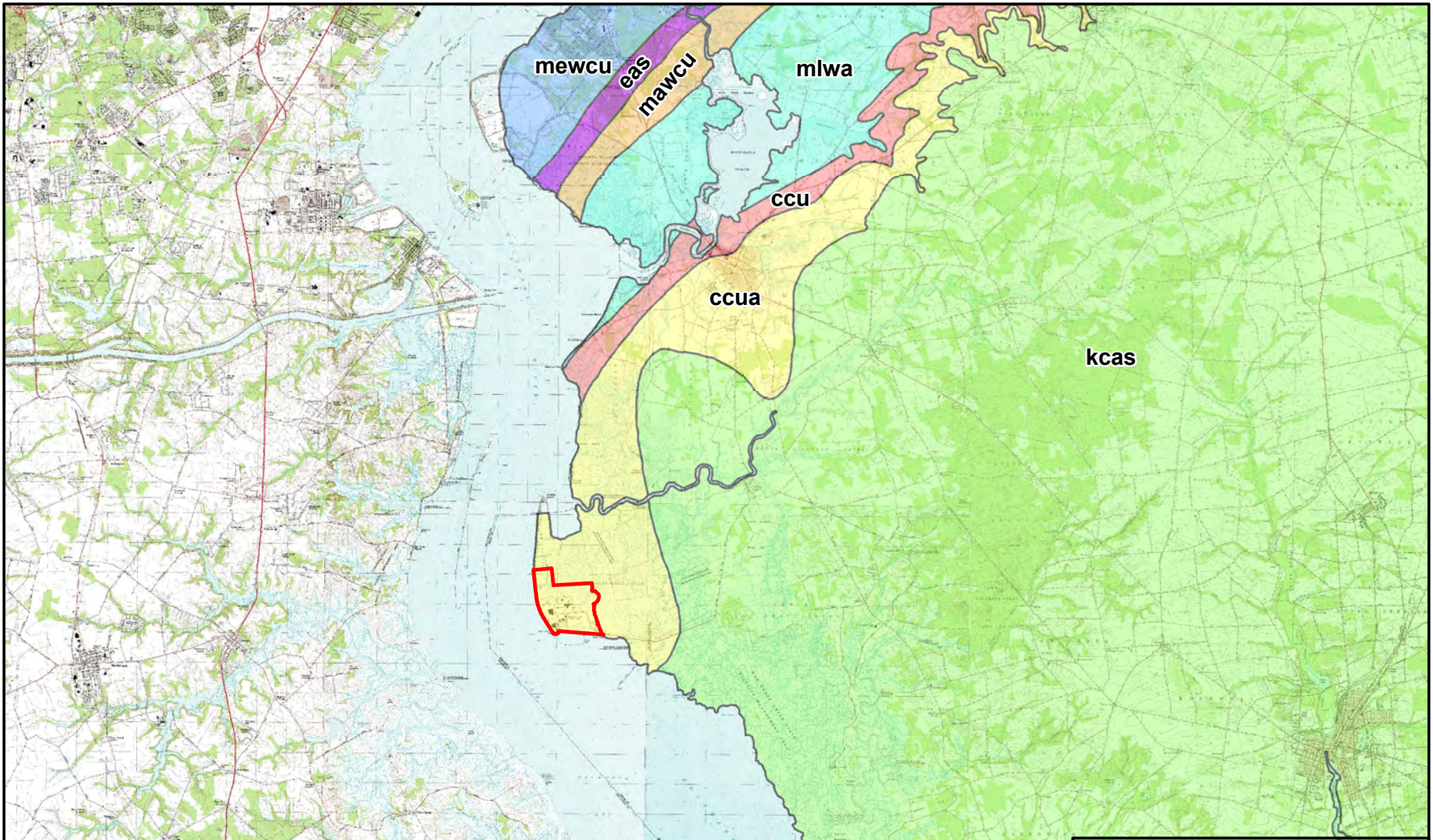
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Hydrostratigraphic Classification
for the PSEG Site

FIGURE 2.3-18





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LEGEND

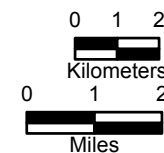


Site Boundary

-  ccu-Composite confining unit
-  ccua-Composite confining unit aquifer
-  eas-Englishtown aquifer system
-  kcas-Kirkwood-Cohansey aquifer system

Major Aquifer

-  mawcu-Marshalltown-Wenonah confining unit
-  mewcu-Merchantville-Woodbury confining unit
-  mlwa-Mt. Laurel-Wenonah aquifer



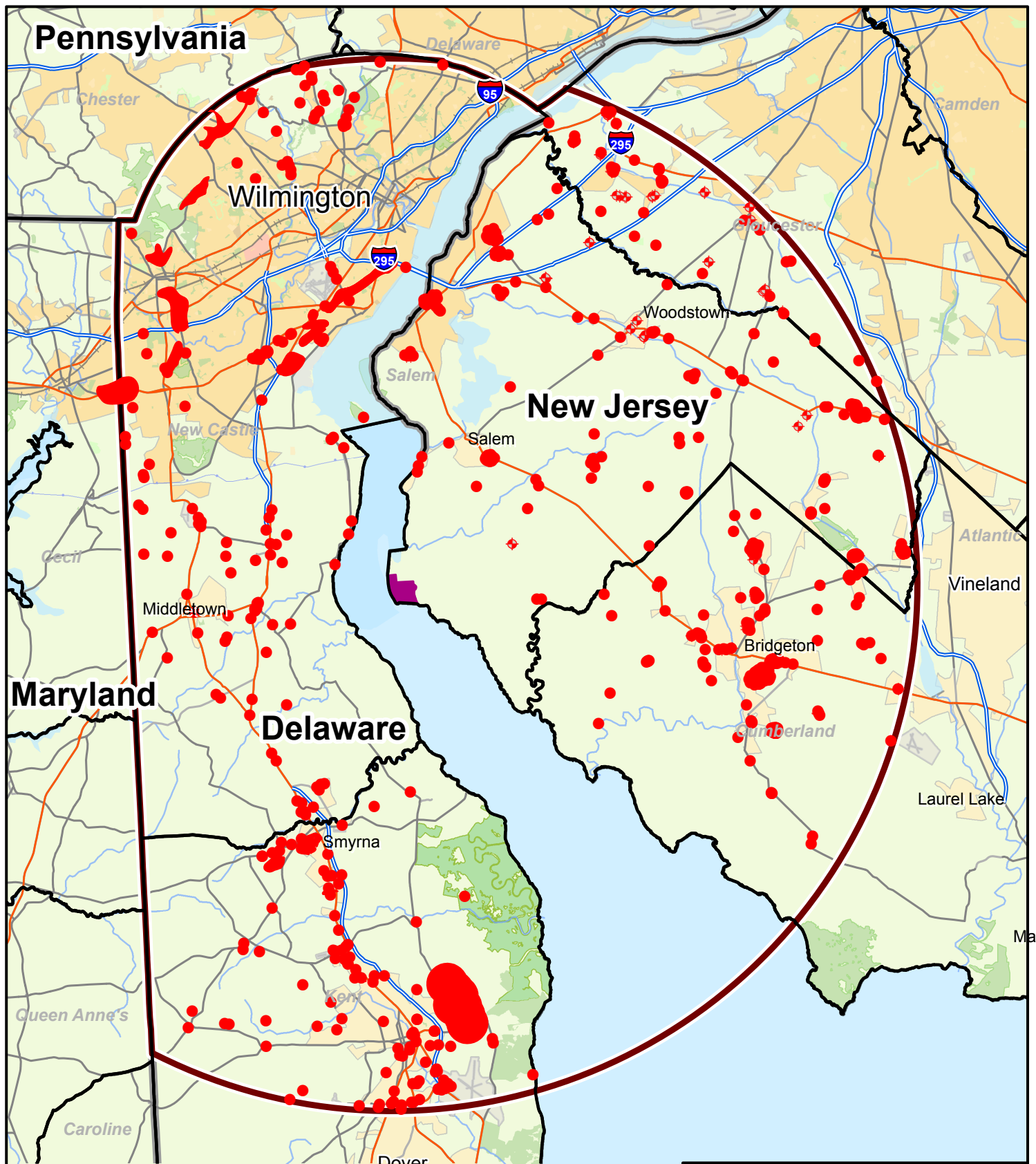
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Hydrogeology,
Extent of Major Aquifers or
Aquifer Systems in NJ

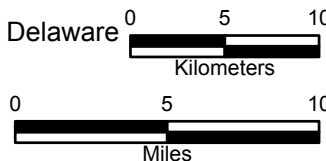
FIGURE 2.3-19

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LEGEND

- Public Water Supply Well
- Well Head Protection Area
- 25-mile Vicinity Boundary within New Jersey and Delaware
- Site Boundary



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NJ & DE Well Head Protection
Areas and NJ Public Supply Wells
Within 25 Miles of the PSEG Site

FIGURE 2.3-20

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