

## **TABLES**

**New Jersey Wind Port  
Regulatory / Environmental Permits and Approvals**

**Table 1 (1 of 3)**

<b>Agency</b>	<b>Permit/Approval</b>	<b>Regulated Activity</b>
<b>Federal Permits and Approvals</b>		
U.S. Army Corps of Engineers (USACE), Philadelphia District	Section 10 of the Rivers and Harbors Act of 1899/ Section 404 Clean Water Act, Individual Permit/ Section 408, of the Rivers and Harbors Act of 1899 (33 USC 408)	Required for structures or work in navigable waters and Waters of the United States, including federal-jurisdictional wetlands, under USACE-jurisdiction. Grants permission for the alteration of a public work.
U.S. Army Corps of Engineers (USACE), Philadelphia District	Wetlands Jurisdictional Determination (JD)	Required to confirm USACE jurisdictional wetlands and the potential for impacts to those
U.S. Fish & Wildlife Service (USFWS)	Section 7: Threatened and Endangered Species Review and Consultation	Required in support of any federal permit approval or NJPDES permit to confirm there are no significant adverse impacts to federally-protected species or their habitats.
Federal Aviation Administration (FAA)	Notice of Proposed Construction or Alteration for Proposed Communication Antenna and for Construction Cranes	Required for structures within proximity to public airports, heliports, and seaplane bases. Additional requirements for cranes used during construction.
U.S. Coast Guard	U.S. Coast Guard Consultation	Required for work that is within or may affect navigable waters used to transport interstate commerce. Notification to mariners of on-going construction activities.
NOAA	National Marine Fisheries Consultation	Required in support of Federal and State permits to confirm there are no significant adverse impacts to national marine resources.
<b>State Permits and Approvals</b>		
NJDEP, Division of Land Use Regulation	Coastal Area Facility Review Act (CAFRA)	Required for projects located within the NJDEP-regulated coastal zone.
NJDEP, Division of Land Use Regulation	Coastal Wetlands Individual Permit	Required for activities within mapped NJDEP Coastal Wetlands
NJDEP, Division of Land Use Regulation	In-Water Waterfront Development Permit	Required for activities below Mean High Water of tidal waterbodies.
NJDEP, Division of Land Use Regulation	Flood Hazard Area Hardship Waiver	Required for activities that do not meet the requirements of the Flood Hazard Area Control Act Rules (N.J.A.C. 7:13)
NJDEP, Division of Land Use Regulation	Section 401 Water Quality Consistency Review	Required in accordance with Section 401 of the Clean Water Act for projects that may result in a discharge into Waters of the United States to ensure the proposed activity will not violate NJ State water quality standards.
NJDEP, Bureau of Tidelands	Tidelands Approval	Required for use and development of State

**New Jersey Wind Port  
Regulatory / Environmental Permits and Approvals**

**Table 1 (2 of 3)**

<b>Agency</b>	<b>Permit/Approval</b>	<b>Regulated Activity</b>
NJDEP	Dewatering Temporary Water Allocation Permit (Construction Dewatering)	Required when diverting 100,000 gallons or more of water per day for a period of more than 30 days within a consecutive 365 day period for construction related dewatering.
NJDEP	Construction Dewatering Discharge General Permit (TBD)	Required for the discharge of groundwater from construction excavations to surface water (if required).
NJDEP	Beneficial Use Determination	Required to allow surcharge material from USACE CDF to be used as fill material on the project site.
NJDEP, Division of Land Use Regulation	Coastal Zone Management General Permit #23	Required for conducting soil borings within coastal wetland areas.
NJDEP, Division of Land Use Regulation	Flood Hazard Area Permit-by-Rule	Required for conducting soil borings within flood hazard areas.
NJDEP, Air Quality	Various General Permits as needed	General permits required for solid material storage equipment, fuel dispensing facilities, portable equipment, etc.
NJDEP, Division of Fish and Wildlife, Natural Heritage Program	Threatened and Endangered Species Review and Approval	Required in support of State permits to identify NJ-listed threatened and endangered species and their habitats.
NJ State Historic Preservation Office (SHPO)	Historic Preservation/Section 106 Approval	Required in support of federal and State permit approvals to determine whether cultural and/or historic resources are potentially present.
DE Natural Resources and Environmental Control (DNREC)	Coastal Consistency Approval	Required by the Coastal Zone Management Act for dredging greater than 50,000 cubic yards.
Delaware River Basin Commission (DRBC)	Dewatering and Dredging Docket Approval	Required in order to dewater for pilings, etc. and dredging of Delaware River.
<b>Local Approvals</b>		
Salem County Planning Board	Site Plan Advisory Review (potential)	Formally required if planned development is accessed from county roadways and/or affects county drainage

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**Table 1 (3 of 3)**

<b>Agency</b>	<b>Permit/Approval</b>	<b>Regulated Activity</b>
Cumberland – Salem County Soil Conservation District	Soil Erosion and Sediment Control Plan Certification and NPDES Request for Authorization (RFA) for Construction Stormwater Discharge	Required for development projects which exceed 5,000 sf of soil disturbances. NPDES RFA required for construction activities including clearing, grading and excavating that disturbs one (1)
LACT Planning Board	Site Plan Approval	Required for approval of land development within the
LACT Planning Board and Zoning Board	Bulk or Use Variances or Zoning Change	Required for any variances from bulk or use requirements or change

## New Jersey Wind Port

Table 2

### Existing and Proposed Land Use Within the Proposed Development Site

New Jersey Land Use Category	Existing Site		Proposed Port	
	Area (ac.)	Percent	Area (ac.)	Percent
<b>Wetland and Aquatic Habitat</b>				
Artificial Lakes	0.0	0.0	0.0	0.0
Deciduous Scrub/Shrub Wetlands	0.0	0.0	0.0	0.0
Disturbed Wetlands (Modified)	0.0	0.0	0.0	0.0
Herbaceous Wetlands	0.0	0.0	0.0	0.0
Intertidal Mudflat	1.94	0.9	0.0	0.0
<i>Phragmites</i> -Dominated Coastal Wetlands	2.05	0.9	0.0	0.0
<i>Phragmites</i> -Dominated Interior Wetlands	11.74	5.2	9.57	4.3
Saline Marsh	0.0	0.0	0.0	0.0
Tidal Rivers, Inland Bays, and Other Tidal Waters	0.0	0.0	0.0	0.0
Wetland Rights-of-Way	0.0	0.0	0.0	0.0
<b>Subtotal</b>	<b>15.73</b>	<b>7.0</b>	<b>9.57</b>	<b>4.3</b>
<b>Old Field Habitat</b>				
Deciduous Brush/Shrubland	0.0	0.0	0.0	0.0
Old Field (<25 percent Brush Covered)	0.0	0.0	0.0	0.0
<i>Phragmites</i> -Dominated Old Field	0.0	0.0	0.0	0.0
Upland Rights-of-Way Undeveloped	49.3	21.9	0.0	0.0
<b>Subtotal</b>	<b>49.3</b>	<b>21.9</b>	<b>0.0</b>	<b>0.0</b>
<b>Developed Land Uses</b>				
Altered Lands	159.97	71.1	60.0	26.6
Industrial	0.0	0.0	155.43	69.1
Other Urban or Built-up Land	0.0	0.0	0.0	0.0
<i>Phragmites</i> -Dominated Urban Area	0.0	0.0	0.0	0.0
Recreation Land	0.0	0.0	0.0	0.0
Transportation/Communication/Utilities	0.0	0.0	0.0	0.0
Upland Rights-of-Way Developed	0.0	0.0	0.0	0.0
<b>Subtotal</b>	<b>159.97</b>	<b>71.1</b>	<b>30.77</b>	<b>100.0</b>
<b>Totals</b>	<b>225.0</b>	<b>100.0</b>	<b>225.0</b>	<b>100.0</b>

## New Jersey Wind Port

### Table 3

#### Summary of Wetland and Open Water Impacts

	Intertidal & Subtidal Shallows		Open Water Impacts		Habitat Conversion (Hard Substrate Habitat)	Riparian Zone Vegetation	Open Water Creation	FWW Impacts		FWW TA Impacts		CW Impacts (Landside)		CW Impacts (Waterside)	
	Perm	Temp	Perm	Temp				Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp
Parcel B1	5.258	--	--	--	--	0.45	2.699	--	--	--	--	1.378	4.55	1.384	--
Parcel B2	0.812	--	--	--	--	0.42	--	--	--	--	--	0.048	3.096	0.568	--
Parcel C2	--	--	--	--	--	--	--	--	--	--	--	0.911	6.137	--	--
Parcel D	--	--	--	--	--	--	--	0.23	0.03	0.52	0.09	--	--	--	--
Parcel E	--	--	--	--	--	--	--	0.514	--	1.297	--	--	--	--	--
MHCBUA	--	178.794	0.512	83.228	1.558	--	--	--	--	--	--	--	--	.02	--
<b>Total</b>	<b>6.07</b>	<b>178.794</b>	<b>0.512</b>	<b>83.228</b>	<b>1.558</b>	<b>0.87</b>	<b>2.699</b>	<b>0.744</b>	<b>0.03</b>	<b>1.817</b>	<b>0.09</b>	<b>2.337</b>	<b>13.783</b>	<b>1.952</b>	<b>0.00</b>

**New Jersey Wind Port  
Finfish Species With the Potential to Occur within the Project Area**

**Table 4 (1 of 3)**

<b>Habitat</b>	<b>Common Name</b>	<b>Scientific Name</b>	<b>Observed in the Delaware Estuary</b>	<b>Observed Between River Miles 40 and 60</b>
Anadromous	Alewife	<i>Alosa pseudoharengus</i>	S, P, T	S, P, T
Catadromous	American eel	<i>Anguilla rostrata</i>	S, T	S, T
Coastal	American halfbeak	<i>Hyporhamphus meeki</i>	S	
Coastal	American sand lance	<i>Ammodytes americanus</i>	T	T
Anadromous	American shad	<i>Alosa sapidissima</i>	S, P, T	S, P, T
Coastal	Atlantic croaker	<i>Micropogonias undulatus</i>	S, P, T	S, P, T
Coastal	Atlantic cutlassfish	<i>Trichiurus lepturus</i>	T	
Coastal	<b>Atlantic herring</b>	<b><i>Clupea harengus</i></b>	S, T	T
Coastal	Atlantic menhaden	<i>Brevoortia tyrannus</i>	S, P, T	S, P, T
Coastal	Atlantic moonfish	<i>Selene setapinnis</i>	T	
Coastal	Atlantic needlefish	<i>Strongylura marina</i>	S, T	S
Coastal	Atlantic silverside	<i>Menidia menidia</i>	S, P, T	S, P, T
Coastal	Atlantic stingray	<i>Hypanus sabinus</i>	S	
Anadromous	Atlantic sturgeon	<i>Acipenser oxyrhynchus</i>	T	T
Coastal	Atlantic threadfin herring	<i>Opisthonema oglinum</i>	S	S
Coastal	Banded drum	<i>Larimus fasciatus</i>	T	
Freshwater, Coastal	Banded killifish	<i>Fundulus diaphanous</i>	S, T	S, T
Coastal	Banded rudderfish	<i>Seriola zonata</i>	T	
Freshwater	Banded sunfish	<i>Enneacanthus obesus</i>	S, T	
Coastal	Bay anchovy	<i>Anchoa mitchilli</i>	S, P, T	S, P, T
Coastal	Bigeye scad	<i>Selar crumenophthalmus</i>	T	
Freshwater	Black bullhead	<i>Ameiurus melas</i>	S	
Coastal	Black drum	<i>Pogonias cromis</i>	S, T	S, T
Coastal	<b>Black sea bass</b>	<b><i>Centropristis striata</i></b>	T	T
Coastal	Blackcheek tonguefish	<i>Symphurus plagiosa</i>	T	T
Coastal	Blue runner	<i>Caranx crysos</i>	T	
Anadromous	Blueback herring	<i>Alosa aestivalis</i>	S, P, T	S, P, T
Coastal	<b>Bluefish</b>	<b><i>Pomatomus saltatrix</i></b>	S, P, T	S, P, T
Freshwater	Bluegill	<i>Lepomis macrochirus</i>	S, T	S, T
Coastal	Bluntnose stingray	<i>Dasyatis say</i>	S, T	
Freshwater	Bowfin	<i>Amia calva</i>	S	
Freshwater	Brown bullhead	<i>Ameiurus nebulosus</i>	S, T	S, T
Freshwater	Brown trout	<i>Salmo trutta</i>	S	
Coastal	Bullnose ray	<i>Myliobatis freminvillii</i>	S, T	
Coastal	<b>Butterfish</b>	<b><i>Peprilus triacanthus</i></b>	S, T	T
Freshwater	Common Carp	<i>Cyprinus carpio</i>	S, T	S, T
Freshwater	Chain pickerel	<i>Esox niger</i>	S	
Freshwater	Channel catfish	<i>Ictalurus punctatus</i>	S, T	S, T
Coastal	<b>Clearnose skate</b>	<b><i>Raja eglanteria</i></b>	T	
Coastal	Cobia	<i>Rachycentron canadum</i>	S	
Freshwater	Comely shiner	<i>Notropis amoenus</i>	S	
Coastal	Conger eel	<i>Conger oceanicus</i>	T	T
Coastal	Cownose ray	<i>Rhinoptera bonasus</i>	S, T	T
Freshwater	Creek chub	<i>Semotilus atromaculatus</i>	S	
Coastal	Crevalle jack	<i>Caranx hippos</i>	S, T	S, T
Freshwater	Eastern mosquitofish	<i>Gambusia affinis</i>	S	S
Freshwater	Eastern silvery minnow	<i>Hybognathus regius</i>	S, T	S, T
Freshwater	Fallfish	<i>Semotilus corporalis</i>	S	
Coastal	Feather blenny	<i>Hypsoblennius hentz</i>	T	T
Coastal	Fourspine stickleback	<i>Apeltes quadracus</i>	S	
Coastal	Four-spot flounder	<i>Paralichthys oblongus</i>	T	T
Freshwater, Coastal	Gizzard shad	<i>Dorosoma cepedianum</i>	S, T	S, T
Freshwater	Golden shiner	<i>Notemigonus crysoleucas</i>	S	
Freshwater	Goldfish	<i>Carassius auratus</i>	S	

**New Jersey Wind Port  
Finfish Species With the Potential to Occur within the Project Area**

**Table 4 (2 of 3)**

Habitat	Common Name	Scientific Name	Observed in the Delaware Estuary	Observed Between River Miles 40 and 60
Coastal	Gray snapper	<i>Lutjanus griseus</i>	S	
Freshwater	Green sunfish	<i>Lepomis cyanellus</i>	S	
Coastal	Harvestfish	<i>Peprilus alepidotus</i>	S, T	S, T
Anadromous	Hickory shad	<i>Alosa mediocris</i>	S, T	T
Freshwater, Coastal	Hogchoker	<i>Trinectes maculatus</i>	S, T	S, T
Coastal	Inland silverside	<i>Menidia beryllina</i>	S	
Coastal	Inshore lizardfish	<i>Synodus foetens</i>	S, T	
Freshwater	Largemouth bass	<i>Micropterus salmoides</i>	S	
Coastal	Lined seahorse	<i>Hippocampus erectus</i>	T	T
Coastal	<b>Little skate</b>	<b><i>Raja erinacea</i></b>	T	
Coastal	Lookdown	<i>Selene vomer</i>	S, T	S
Freshwater, Coastal	Mummichog	<i>Fundulus heteroclitus</i>	S, T	S, T
Coastal	Naked goby	<i>Gobiosoma bosci</i>	S, T	S, T
Coastal	Northern kingfish	<i>Menticirrhus saxatilis</i>	S, T	S, T
Coastal	Northern pipefish	<i>Syngnathus fuscus</i>	S, T	S, T
Coastal	Northern puffer	<i>Sphoeroides maculatus</i>	S, T	T
Coastal	Northern searobin	<i>Prionotus carolinus</i>	S, T	T
Coastal	Northern sennet	<i>Sphyraena borealis</i>	S	
Freshwater, Coastal	Northern snakehead	<i>Channa argus</i>	S	
Coastal	Northern stargazer	<i>Astroscopus guttatus</i>	S, T	S, T
Coastal	Oyster toadfish	<i>Opsanus tau</i>	S, T	S, T
Coastal	Permit	<i>Trachinotus falcatus</i>	S	S
Coastal	Pigfish	<i>Orthopristis chrysoptera</i>	S	
Coastal	Pinfish	<i>Lagodon rhomboides</i>	S, T	
Coastal	Pollock	<i>Pollachius virens</i>	T	
Coastal	Pompano	<i>Trachinotus ovatus</i>	S, T	S
Freshwater	Pumpkinseed	<i>Lepomis gibbosus</i>	S, T	S, T
Freshwater	Quillback	<i>Carpiodes cyprinus</i>	S	
Coastal	Rainwater killifish	<i>Lucania parva</i>	S	
Coastal	Red drum	<i>Sciaenops ocellatus</i>	S	
Coastal	<b>Red hake</b>	<b><i>Urophycis chuss</i></b>	S, T	T
Freshwater	Redbreast sunfish	<i>Lepomis auritus</i>	S	
Coastal	Redfin pickerel	<i>Pholis gunnellus</i>	S	
Freshwater	Rock Bass	<i>Ambloplites rupestris</i>	S	
Coastal	Rough scad	<i>Trachurus lathami</i>	T	
Coastal	Rough silverside	<i>Membras martinica</i>	S	S
Coastal	Roughtail stingray	<i>Dasyatis centroura</i>	S, T	
Coastal	Sand tiger shark	<i>Carcharias taurus</i>	T	
Coastal	Sandbar shark	<i>Carcharhinus plumbeus</i>	S, T	
Coastal	<b>Scup</b>	<b><i>Stenotomus chrysops</i></b>	S, T	T
Coastal	Seaboard goby	<i>Gobiosoma ginsburgi</i>	T	
Coastal	Sheepshead	<i>Archosargus probatocephalus</i>	S	
Coastal	Sheepshead minnow	<i>Cyprinodon variegatus</i>	S	S
Freshwater, Coastal	Shortnose sturgeon	<i>Acipenser brevirostrum</i>	T	T
Coastal	Silver hake	<i>Merluccius bilinearis</i>	T	
Freshwater, Coastal	Silver perch	<i>Bairdiella chrysoura</i>	S, T	S, T
Coastal	Skilletfish	<i>Gobiesox strumosus</i>	S, T	T
Freshwater	Smallmouth bass	<i>Micropterus dolomieu</i>	S	
Coastal	Smallmouth flounder	<i>Etropus microstomus</i>	S, T	T
Coastal	Smooth butterfly ray	<i>Gymnura micrura</i>	T	
Coastal	Smooth dogfish	<i>Mustelus canis</i>	S, T	
Coastal	Smooth puffer	<i>Lagocephalus laevigatus</i>	S, T	T
Coastal	Southern kingfish	<i>Menticirrhus americanus</i>	S	S
Coastal	Southern stingray	<i>Hypanus americanus</i>	S, T	



**New Jersey Wind Port  
Finfish Species With the Potential to Occur within the Project Area**

**Table 4 (3 of 3)**

Habitat	Common Name	Scientific Name	Observed in the Delaware Estuary	Observed Between River Miles 40 and 60
Coastal	Spanish mackerel	<i>Scomberomorus maculatus</i>	S	S
Coastal	Speckled worm eel	<i>Myrophis punctatus</i>	T	T
Coastal	Spiny butterfly ray	<i>Gymnura altavela</i>	S, T	
Coastal	Spiny dogfish	<i>Squalus acanthias</i>	T	
Coastal	Spot	<i>Leiostomus xanthurus</i>	S, P, T	S, P, T
Coastal	Spotfin killifish	<i>Fundulus luciae</i>	S	
Freshwater	Spotfin shiner	<i>Cyprinella spiloptera</i>	S	S
Freshwater	Spottail shiner	<i>Notropis hudsonius</i>	S	S
Coastal	Spotted hake	<i>Urophycis regia</i>	S, T	T
Coastal	Spotted sea trout	<i>Cynoscion nebulosus</i>	S	
Coastal	Striped anchovy	<i>Anchoa hepsetus</i>	S, T	S, T
Anadromous	Striped bass	<i>Morone saxatilis</i>	S, P, T	S, P, T
Freshwater, Coastal	Striped bass, hybrid	<i>Morone saxatilis x M. chrysops</i>	S	
Coastal	Striped burrfish	<i>Chilomycterus schoepfi</i>	S, T	
Coastal	Striped cusk eel	<i>Ophidion marginatum</i>	S, T	T
Coastal	Striped killifish	<i>Fundulus majalis</i>	S	S
Catadromous	Striped mullet	<i>Mugil cephalus</i>	S	S
Coastal	Striped searobin	<i>Prionotus evolans</i>	S, T	T
Coastal	<b>Summer flounder</b>	<b><i>Paralichthys dentatus</i></b>	S, T	S, T
Coastal	Tautog	<i>Tautoga onitis</i>	T	
Freshwater	Tessellated darter	<i>Etheostoma olmstedi</i>	S	
Freshwater	Tiger muskellunge	<i>Esox masquinongy x E. lucius</i>	S	
Coastal	Weakfish	<i>Cynoscion regalis</i>	S, P, T	S, P, T
Freshwater	White catfish	<i>Ameiurus catus</i>	S, T	S, T
Freshwater	White crappie	<i>Pomoxis annularis</i>	S	
Coastal	White mullet	<i>Mugil curema</i>	S	S
Freshwater, Anadromous	White perch	<i>Morone americana</i>	S, P, T	S, P, T
Freshwater	White sucker	<i>Catostomus commersonii</i>	S	
Coastal	Windowpane	<i>Scophthalmus aquosus</i>	S, T	T
Coastal	<b>Winter flounder</b>	<b><i>Pseudopleuronectes americanus</i></b>	S, T	T
Coastal	<b>Winter skate</b>	<b><i>Leucoraja ocellata</i></b>	T	
Freshwater, Semianadromous	Yellow perch	<i>Perca flavescens</i>	S	

**Notes:** Sampling gear codes: S = beach seine, P = plankton net, T = trawl

**Boldface** indicates those species identified as having EFH in the project region in the Delaware Estuary near the project site, or those species identified as NOAA Trust Species.

“Coastal” indicates species that most commonly occur in estuarine and/or marine waters.

“Semianadromous” indicates that some populations exhibit anadromous spawning movements.

SOURCES: PSEG Biological Monitoring Program Annual Biological Monitoring Reports for the Salem Generating Station (1995 – 2019) as submitted annually to NJDEP in satisfaction of NJPDES Permit No. NJ0005662; DNREC Coastal Finfish Assessment Surveys Annual Trawl Survey data (1990 – 2019).

New Jersey Wind Port

Table 5

Yearly Predicted Emissions for Conformity

Construction Emissions	NOx	VOC
	(tpy)	(tpy)
Year 1	107	10.9
Year 2	107	11.2
Year 3	0.2	1.4

New Jersey Wind Port

Table 6 (1 of 2)

Mammals Observed On-Site and in the Vicinity of the PSEG Site,  
2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey				Approximate Location		Prior Survey <sup>(c)</sup>
		Season				Site	Vicinity	
		Winter	Spring	Summer	Fall			
<b>Pouched Mammals</b>								
<i>Didelphis virginiana</i>	Opossum	X	X	X			TS-01	(b)
<b>Insectivores</b>								
<i>Blarina brevicauda</i>	Short-tailed shrew							X
<i>Sorex cinereus</i>	Masked shrew							X
<b>Bats</b>								
<i>Eptesicus fuscus</i>	Big brown bat							(b)
<i>Lasiurus borealis</i>	Red bat							(b)
<i>Myotis lucifugus</i>	Little brown myotis							(b)
<i>M. keenii</i>	Keen's myotis							(b)
<i>M. septentrionalis</i>	Eastern pipistrelle							(b)
<i>M. subulatus</i>	Small-footed myotis							(b)
<b>Rabbits</b>								
<i>Sylvilagus floridanus</i>	Eastern cottontail	X	X	X			TS-03	(b)
<b>Gnawing Mammals</b>								
<i>Marmota monax</i>	Groundhog		X				TS-01, TS-02, TS-09	
<i>Microtus pennsylvanicus</i>	Meadow vole							X
<i>Mus musculus</i>	House mouse							X
<i>Ondatra zibethicus</i>	Muskrat		X	X		TS-03, TS-13	TS-01, TS-02, TS-09	(b)
<i>Oryzomya paulaustris</i>	Marsh rice rat							X
<i>Peromyscus leucopus</i>	White-footed mouse							X
<i>Rattus norvegicus</i>	Norway rat							X
<i>Sciurus carolinensis</i>	Eastern gray squirrel	X	X	X	X		TS-01, TS-02, TS-09	(b)
<i>Synaptomys cooperi</i>	Southern bog lemming							(b)
<i>Zapus hudsonius</i>	Meadow jumping mouse							X

New Jersey Wind Port

Table 6 (2 of 2)

Mammals Observed On-Site and in the Vicinity of the PSEG Site,  
2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey				Approximate Location		Prior Survey
		Season				Site	Vicinity	
		Winter	Spring	Summer	Fall			
<b>Flesh Eaters</b>								
<i>Canus latrans</i>	Coyote			X		TS-17, TS-18		
<i>Lontra canadensis</i>	River otter		X	X		TS-15	Plant access road	
<i>Mephitis mephitis</i>	Striped skunk		X				TS-09	
<i>Mustela frenata</i>	Long-tailed weasel							(b)
<i>Procyon lotor</i>	Raccoon	X	X	X			TS-02	(b)
<i>Urocyon cinereoargenteus</i>	Gray fox							(b)
<i>Ursus americanus</i>	Black bear	X <sup>(a)</sup>				Near entrance gate		
<i>Vulpes fulva</i>	Red fox				X		TS-02	(b)
<b>Even-Toed Hoofed Mammals</b>								
<i>Odocoileus virginianus</i>	White-tailed deer	X	X	X	X	TS-06, TS-07, TS-08, TS-14, TS-15	TS-01, TS-02	(b)

a) Observed by PSEG Site Security

b) Not observed, but may occur within vicinity



New Jersey Wind Port

Table 7 (2 of 12)

Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey						BBS <sup>(a)</sup>	FWS <sup>(b)</sup>	Audubon <sup>(c)</sup>
		Season			Location					
		Winter <sup>(d)</sup>	Spring	Summer	Fall	Total All Seasons	Site			
<i>Anas clypeata</i>	Northern shoveler									X
<i>Anas crecca</i>	Green-winged teal	7	25			32	TS-10, TS-12, TS-16	TS-01, TS-09	X	X
<i>Anas platyrhynchos</i>	Mallard	35	93		1	129	TS-03, TS-06, TS-08, TS-10, TS-11, TS-12, TS-13, TS-14, TS-15, TS-16, TS-17	TS-01, TS-02, TS-09	X	X
<i>Anas rubripes</i>	American black duck	43	97	7		147	TS-08, TS-10, TS-11, TS-12, TS-13, TS-14, TS-15, TS-16, TS-17, TS-18	TS-01, TS-02, TS-09	X	X
<i>Anas strepera</i>	Gadwall								X	X
<i>Aythya affinis</i>	Lesser scaup									X
<i>Aythya americana</i>	Redhead									X
<i>Aythya collaris</i>	Ring-necked duck	12	23			35	TS-12, TS-16			X
<i>Aythya marila</i>	Greater scaup	131				131	TS-15			
<i>Aythya sp.</i>	Scaup sp.								X	
<i>Aythya valisineria</i>	Canvasback								X	X
<i>Branta canadensis</i>	Canada goose	1041	258	81	49	1429	TS-05, TS-10, TS-11, TS-12, TS-16, TS-17	TS-01, TS-02	X	X
<i>Bucephala albeola</i>	Bufflehead	4				4	TS-12		X	X
<i>Bucephala sp.</i>	Goldeneye sp.									
<i>Chen caerulescens</i>	Snow goose	2071	85			2156	TS-10, TS-11, TS-15	TS-01, TS-02, TS-09	X	X
<i>Clangula hyemalis</i>	Long-tailed duck									X
<i>Cygnus columbianus</i>	Tundra swan								X	X
<i>Cygnus olor</i>	Mute swan		3			3	TS-16		X	X

New Jersey Wind Port

Table 7 (3 of 12)

Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey					Total All Seasons	Location		BBS <sup>(a)</sup>	FWS <sup>(b)</sup>	Audubon <sup>(c)</sup>
		Season				Site		Vicinity				
		Winter <sup>(d)</sup>	Spring	Summer	Fall							
<i>Lophodytes cucullatus</i>	Hooded merganser	1				1	TS-12			X	X	
<i>Melanitta perspicillata</i>	Surf scoter										X	
<i>Mergus merganser</i>	Common merganser	12				12	TS-15	TS-09		X	X	
<i>Mergus serrator</i>	Red-breasted Merganser		2			2	TS-10			X	X	
<i>Mergus</i> sp.	Merganser sp.									X		
<i>Oxyura jamaicensis</i>	Ruddy duck										X	
<b>Vultures, Hawks, Falcons</b>												
<i>Accipiter cooperii</i>	Cooper's hawk				4	4	TS-17	TS-01	X		X	
<i>Accipiter gentilis</i>	Northern goshawk										X	
<i>Accipiter striatus</i>	Sharp-shinned hawk				1	1		TS-01			X	
<i>Buteo jamaicensis</i>	Red-tailed hawk	11	9	1	5	26		TS-01, TS-02	X		X	
<i>Buteo lagopus</i>	Rough-legged hawk										X	
<i>Buteo lineatus</i>	Red-shouldered Hawk										X	
<i>Buteo platypterus</i>	Broad-winged hawk								X		X	
<i>Buteo</i> sp.	Unknown raptor	2				2		TS-01			X	
<i>Cathartes aura</i>	Turkey vulture	52	43	16	15	126	TS-07, TS-18	TS-01, TS-02	X			
<i>Circus cyaneus</i>	Northern harrier	11	7	3	1	22	TS-03, TS-06, TS-12, TS-16, TS-17, TS-18	TS-01, TS-02, TS-09	X		X	
<i>Coragyps atratus</i>	Black vulture		2			2		TS-01, TS-02	X			
<i>Falco columbarius</i>	Merlin										X	
<i>Falco peregrinus</i>	Peregrine falcon										X	
<i>Falco sparverius</i>	American kestrel								X		X	

## New Jersey Wind Port

### Table 7 (4 of 12)

#### Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey					Total All Seasons	Location		BBS <sup>(a)</sup>	FWS <sup>(b)</sup>	Audubon <sup>(c)</sup>
		Season				Site		Vicinity				
		Winter <sup>(d)</sup>	Spring	Summer	Fall							
<i>Haliaeetus leucocephalus</i>	Bald eagle	3	8	3	2	16	TS-05, TS-06, TS-08, TS-15, TS-17	TS-02			X	
<i>Pandion haliaetus</i>	Osprey		16	13		29	TS-04, TS-05, TS-08, TS-10, TS-11, TS-15	TS-01, TS-02, TS-09	X			
<b>Gallinaceous Birds</b>												
<i>Colinus virginianus</i>	Northern bobwhite		5		1	6	TS-06, TS-07, TS-08	TS-01, TS-02	X			
<b>Cranes, Rails, Coots</b>												
<i>Fulica americana</i>	American coot		1			1	TS-16				X	
<i>Meleagris gallopavo</i>	Wild turkey	6	72	10	4	92	General field reconn. (plant access road near TS-06)	TS-01, TS-02	X			
<i>Phasianus colchicus</i>	Ring-necked Pheasant	1	1			2	TS-07	general field reconn. (Abott's Farm Rd.)	X		X	
<i>Rallus limicola</i>	Virginia rail				1	1		general field reconn. (Alloways Creek)			X	
<i>Rallus longirostris</i>	Clapper rail								X		X	
<b>Shorebirds</b>												
<i>Actitis macularia</i>	Spotted sandpiper		3			3	TS-15	TS-02	X		X	
<i>Calidris alpina</i>	Dunlin		20			20		TS-01			X	
<i>Calidris minutilla</i>	Least sandpiper		140	1	5	146	TS-03, TS-04, TS-09, TS-10, TS-15	TS-01				
<i>Catoptrophorus semipalatus</i>	Willet								X			
<i>Charadrius semipalmatus</i>	Semipalmated plover		76	2		78	TS-15	TS-01				
<i>Charadrius vociferus</i>	Killdeer	18	44	22	2	86	TS-03, TS-04, TS-05, TS-06, TS-08, TS-10, TS-11, TS-12, TS-15, TS-17, TS-18	TS-01, TS-02	X		X	



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Table 7 (5 of 12)

Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey					Total All Seasons	Location		BBS <sup>(a)</sup>	FWS <sup>(b)</sup>	Audubon <sup>(c)</sup>
		Season						Site	Vicinity			
		Winter <sup>(d)</sup>	Spring	Summer	Fall							
<i>Chroicocephalus philadelphia</i>	Bonaparte's gull										X	
<i>Gallinago delicata</i>	Wilson's snipe										X	
<b>Gulls and Terns</b>												
<i>Himantopus mexicanus</i>	Black-necked stilt		1			1	TS-10				X	
<i>Larus argentatus</i>	Herring gull	10				10	TS-15	TS-02	X		X	
<i>Larus atricilla</i>	Laughing gull		27	2		29	TS-03, TS-06, TS-07, TS-08, TS-15, TS-17, TS-18	TS-02	X			
<i>Larus DEnsis</i>	Ring-billed gull	48	169	22	27	266	TS-03, TS-04, TS-05, TS-06, TS-07, TS-08, TS-11, TS-15, TS-17, TS-18	TS-01, TS-02, TS-09	X		X	
<i>Larus marinus</i>	Great black-backed gull	13	28	77	143	261	TS-11, TS-15, TS-16, TS-17, TS-18	TS-01, TS-09			X	
<i>Larus pipixcan</i>	Franklin's gull		16			16		TS-01				
<i>Scolopax minor</i>	American woodcock		2			2	TS-08				X	
<i>Sterna forsteri</i>	Forster's tern		1	14		15	TS-11, TS-12, TS-15, TS-16				X	
<i>Sterna hirundo</i>	Common tern		3			3	TS-16	TS-01				
<i>Tringa flavipes</i>	Lesser yellowlegs		77	2	29	108	TS-10	TS-01, TS-09				
<i>Tringa melanoleuca</i>	Greater yellowlegs		91			91		TS-09				
<b>Pigeons and Doves</b>												
<i>Columba livia</i>	Rock dove			1	1	2	TS-05	TS-02	X		X	
<i>Zenaida macroura</i>	Mourning dove	36	62	41	107	246	TS-04, TS-05, TS-06, TS-07, TS-08, TS-18	TS-01, TS-02	X		X	



# New Jersey Wind Port

## Table 7 (7 of 12)

### Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey					Total All Seasons	Location		BBS <sup>(a)</sup>	FWS <sup>(b)</sup>	Audubon <sup>(c)</sup>
		Season				Site		Vicinity				
		Winter <sup>(d)</sup>	Spring	Summer	Fall							
<b>Perching Birds</b>												
<i>Agelaius phoeniceus</i>	Red-winged blackbird	575	419	100	1,067	2161	TS-03, TS-04, TS-05, TS-06, TS-07, TS-08, TS-17, TS-18	TS-01, TS-02	X		X	
<i>Ammodramus savannarum</i>	Grasshopper Sparrow		1			1		TS-01	X			
<i>Anthus rubescens</i>	American pipit										X	
<i>Baeolophus bicolor</i>	Tufted titmouse	14	14	3	5	36		TS-01, TS-02	X		X	
<i>Bombycilla cedrorum</i>	Cedar waxwing								X		X	
<i>Cardinalis cardinalis</i>	Northern cardinal	26	112	24	5	167	TS-03, TS-04, TS-05, TS-06, TS-07, TS-17, TS-18	TS-01, TS-02	X		X	
<i>Carduelis pinus</i>	Pine siskin	2				2		TS-01			X	
<i>Carduelis tristis</i>	American goldfinch		32	15	21	68	TS-03, TS-04, TS-05, TS-06, TS-07, TS-14, TS-18	TS-01, TS-02	X		X	
<i>Carpodacus mexicanus</i>	House finch	4	3	1		8		TS-01	X		X	
<i>Carpodacus purpureus</i>	Purple finch		1	5	6	12		TS-01, TS-02			X	
<i>Catharus guttatus</i>	Hermit thrush										X	
<i>Certhia americana</i>	Brown creeper										X	
<i>Cistothorus palustris</i>	Marsh wren		15	7		22	TS-03, TS-18	TS-01, TS-02	X		X	
<i>Contopus virens</i>	Eastern wood pewee		3	4		7		TS-01, TS-02	X			
<i>Corvus brachyrhynchos</i>	American crow	19	55	12	27	113	TS-04	TS-01, TS-02	X		X	
<i>Corvus ossifragus</i>	Fish crow	13	34	30	19	96	TS-04, TS-05, TS-07, TS-08	TS-01, TS-02	X		X	

## New Jersey Wind Port

### Table 7 (8 of 12)

#### Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey					Total All Seasons	Location		BBS <sup>(a)</sup>	FWS <sup>(b)</sup>	Audubon <sup>(c)</sup>
		Season				Site		Vicinity				
		Winter <sup>(d)</sup>	Spring	Summer	Fall							
<i>Cyanocitta cristata</i>	Blue jay	40	18	8	33	99	TS-07	TS-01, TS-02	X		X	
<i>Dendroica coronata</i>	Yellow-rumped warbler		10			10	TS-04	TS-01, TS-02			X	
<i>Dendroica discolor</i>	Prairie warbler		1			1		TS-01	X			
<i>Dendroica palmarum</i>	Palm warbler										X	
<i>Dendroica petechia</i>	Yellow warbler		79	9	3	91	TS-03, TS-04, TS-06, TS-07, TS-08, TS-17	TS-01, TS-02	X			
<i>Dendroica pinus</i>	Pine warbler		4			4		TS-01, TS-02	X			
<i>Dolichonyx oryzivorus</i>	Bobolink		1			1	TS-03					
<i>Dumetella carolinensis</i>	Gray catbird	1	90	44	37	172	TS-03, TS-04, TS-05, TS-06, TS-07, TS-08, TS-17, TS-18	TS-01, TS-02	X		X	
<i>Empidonax vireescens</i>	Acadian flycatcher								X			
<i>Eremophila alpestris</i>	Horned lark		1			1		TS-01	X		X	
<i>Euphagus carolinus</i>	Rusty blackbird										X	
<i>Geothlypis trichas</i>	Common Yellowthroat		120	13	9	142	TS-03, TS-04, TS-05, TS-06, TS-07, TS-08, TS-17, TS-18	TS-01, TS-02	X		X	
<i>Guiraca caerulea</i>	Blue grosbeak				2	2		TS-01	X			
<i>Helmitheros vermivorus</i>	Worm-eating warbler								X			
<i>Hirundo rustica</i>	Barn swallow		91	37	3	131	TS-03, TS-04, TS-05, TS-06, TS-07, TS-08, TS-17, TS-18	TS-01, TS-02	X			
<i>Hylocichla mustelina</i>	Wood thrush		13	2		15		TS-01, TS-02	X			
<i>Icteria virens</i>	Yellow-breasted chat		14	2		16	TS-03, TS-04, TS-06, TS-07, TS-08	TS-01, TS-02	X			

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Table 7 (9 of 12)

Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey						BBS <sup>(a)</sup>	FWS <sup>(b)</sup>	Audubon <sup>(c)</sup>	
		Season				Total All Seasons	Location				
		Winter <sup>(d)</sup>	Spring	Summer	Fall		Site				Vicinity
<i>Icterus galbula</i>	Baltimore oriole							X			
<i>Icterus spurius</i>	Orchard oriole		5			5	TS-06, TS-08	X			
	Dark-eyed junco								X		
<i>Melospiza georgiana</i>	Swamp sparrow							X	X		
<i>Melospiza melodia</i>	Song sparrow	51	76	17	18	162	TS-03, TS-04, TS-05, TS-06, TS-07, TS-08, TS-17, TS-18	X	X		
<i>Mimus polyglottos</i>	Northern mockingbird	8	34	17	9	68	TS-04, TS-05, TS-06, TS-07, TS-08, TS-18	X	X		
<i>Mniotilta varia</i>	Black and white warbler		1			1		X			
<i>Molothrus ater</i>	Brown-headed cowbird		101	8	1	110	TS-03, TS-04, TS-05, TS-07, TS-08, TS-17, TS-18	X	X		
<i>Myiarchus crinitus</i>	Great crested flycatcher				1	1		X			
<i>Oporornis formosus</i>	Kentucky warbler		9			9		X			
<i>Parula americana</i>	Northern parula							X			
<i>Passer domesticus</i>	House sparrow	4	29	24	24	81	TS-05	X	X		
<i>Passerculus sandwichensis</i>	Savannah sparrow		2			2	TS-04		X		
<i>Passerella iliaca</i>	Fox sparrow								X		
<i>Passerina cyanea</i>	Indigo bunting		23	19		42	TS-03, TS-04, TS-07, TS-17	X			
<i>Petrochelidon pyrrhonota</i>	Cliff swallow				16	16					
<i>Pipilo erythrophthalmus</i>	Eastern towhee		19	9	2	30		X	X		

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Table 7 (10 of 12)

### Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey					Total All Seasons	Location		BBS <sup>(a)</sup>	FWS <sup>(b)</sup>	Audubon <sup>(c)</sup>
		Season				Site		Vicinity				
		Winter <sup>(d)</sup>	Spring	Summer	Fall							
<i>Piranga olivacea</i>	Scarlet tanager								X			
<i>Piranga rubra</i>	Summer tanager								X			
<i>Poecile atricapillus</i>	Black-capped chickadee	9	3	3	2	17		TS-01, TS-02				
<i>Poecile carolinensis</i>	Carolina chickadee			1		1		TS-01	X		X	
<i>Polioptila caerulea</i>	Blue-gray gnatcatcher		14	1		15		TS-01, TS-02	X			
<i>Progne subis</i>	Purple martin			5		5		TS-02	X			
<i>Protonotaria citrea</i>	Prothonotary warbler		1			1		TS-01				
<i>Quiscalus quiscula</i>	Common grackle	51	77	18	1	147	TS-04, TS-06, TS-07, TS-08	TS-01, TS-02	X		X	
<i>Regulus calendula</i>	Ruby-crowned kinglet										X	
<i>Regulus satrapa</i>	Golden-crowned kinglet										X	
<i>Riparia riparia</i>	Bank swallow								X			
<i>Sayornis phoebe</i>	Eastern phoebe		1		1	2	TS-17	TS-01, TS-02	X		X	
<i>Seiurus aurocapillus</i>	Ovenbird		4			4		TS-01, TS-02	X			
<i>Seiurus motacilla</i>	Louisiana waterthrush		2			2		TS-01	X			
<i>Setophaga ruticilla</i>	American redstart								X			
<i>Sialia sialis</i>	Eastern bluebird	8	0	4	7	19		TS-01, TS-02	X		X	
<i>Sitta canadensis</i>	Red-breasted nuthatch										X	
<i>Sitta carolinensis</i>	White-breasted nuthatch		3	4	3	10		TS-01, TS-02			X	

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Table 7 (11 of 12)

Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey						BBS <sup>(a)</sup>	FWS <sup>(b)</sup>	Audubon <sup>(c)</sup>	
		Season				Total All Seasons	Location				
		Winter <sup>(d)</sup>	Spring	Summer	Fall		Site				Vicinity
<i>Sphyrapicus varius</i>	Yellow-bellied sapsucker									X	
<i>Spizella arborea</i>	American tree sparrow	4				4	TS-17			X	
<i>Spizella passerina</i>	Chipping sparrow	6	47	7		60	TS-03, TS-04, TS-05, TS-06, TS-07, TS-08, TS-17, TS-18	TS-01, TS-02	X	X	
<i>Spizella pusilla</i>	Field sparrow		8	7		15	TS-03	TS-01, TS-02	X	X	
<i>Stelgidopteryx serripennis</i>	Northern rough-winged swallow								X		
<i>Sturnella magna</i>	Eastern meadowlark	7	1			8	TS-06	TS-01, TS-02	X	X	
<i>Sturnus vulgaris</i>	European starling	151	327	510	545	1533	TS-03, TS-04, TS-06, TS-07, TS-08, TS-18	TS-01, TS-02	X	X	
<i>Tachycineta bicolor</i>	Tree swallow	3	570	187	2,112	2872	TS-03, TS-04, TS-05, TS-06, TS-07, TS-08, TS-17, TS-18	TS-01, TS-02	X		
<i>Thryothorus ludovicianus</i>	Carolina wren	29	17	7	13	66	TS-05, TS-06, TS-07, TS-08	TS-01, TS-02	X	X	
<i>Toxostoma rufum</i>	Brown thrasher		11			11	TS-03, TS-04, TS-07	TS-01, TS-02	X	X	
<i>Troglodytes aedon</i>	House wren	2	2	3	3	10	TS-07	TS-01, TS-02	X		
<i>Troglodytes troglodytes</i>	Winter wren									X	
<i>Turdus migratorius</i>	American robin	35	119	65	5	224	TS-04, TS-05, TS-06, TS-07, TS-08	TS-01, TS-02	X	X	
<i>Tyrannus tyrannus</i>	Eastern kingbird		1	8		9	TS-04	TS-01, TS-02	X		
<i>Vermivora pinus</i>	Blue-winged warbler								X		
<i>Vireo flavifrons</i>	Yellow-throated vireo								X		
<i>Vireo griseus</i>	White-eyed vireo		5			5		TS-01, TS-02	X		

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Table 7 (12 of 12)

Birds Observed Seasonally On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	2009-2010 Field Survey					Total All Seasons	Location		BBS	FWS	Audubon
		Season				Site		Vicinity				
		Winter <sup>(d)</sup>	Spring	Summer	Fall							
<i>Vireo olivaceus</i>	Red-eyed vireo		1	2		3		TS-02	X			
<i>Wilsonia citrina</i>	Hooded warbler								X			
<i>Zonotrichia albicollis</i>	White-throated sparrow	10	21			31	TS-03, TS-04, TS-06	TS-01, TS-02			X	
<i>Zonotrichia leucophrys</i>	White-crowned Sparrow	2	3		1	6	TS-03	TS-01			X	
<b>Total Number of Birds Observed</b>		<b>4670</b>	<b>4336</b>	<b>1620</b>	<b>4486</b>	<b>15,112</b>						
<b>Total Number of Species</b>		<b>51</b>	<b>103</b>	<b>73</b>	<b>57</b>	<b>125</b>						

d) Winter survey consists of species counts conducted in 2009 at field transects, roadside locations, and waterfowl locations, but also includes species counts of field transects and waterfowl locations on the USACE property in 2010.



New Jersey Wind Port

Table 8 (1 of 2)

Reptiles and Amphibians Observed On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	Season			Location		Prior Survey <sup>(a)</sup>
		Spring	Summer	Fall	Site	Vicinity	
<b>Frogs/Toads</b>							
<i>Bufo woodhousii fowleri</i>	Fowler's toad	X			TS-10, TS-12, TS-13, TS-16		X
<i>Hyla cinerea</i>	Green treefrog		X		TS-10, TS-12		
<i>Hyla versicolor</i>	Eastern gray treefrog	X	X	X		TS-01, TS-02	X
<i>Pseudacris crucifer</i>	Northern spring peeper	X			TS-10, TS-12, TS-13, TS-14, TS-15, TS-16		X
<i>Pseudacris triseriata kolmi</i>	NJ chorus frog						X
<i>Rana catesbeiana</i>	Bullfrog						X
<i>Rana clamitans melanota</i>	Green frog						X
<i>Rana palustris</i>	Pickerel frog						X
<i>Rana sphenocephala</i>	Southern leopard frog	X			TS-10, TS-12, TS-13, TS-14, TS-16	TS-09	X
<i>Rana sylvatica</i>	Wood frog						X
<i>Scaphiopus holbrookii</i>	Eastern spadefoot toad						X
<i>Acris c. crepitans</i>	Northern cricket frog						X
<b>Salamanders/Skinks/Newts</b>							
<i>Ambystoma maculatum</i>	Spotted salamander						X
<i>Ambystoma opacum</i>	Marbled salamander						X
<i>Ambystoma t. tigrinum</i>	Eastern tiger salamander						X
<i>Desmognathus f. fuscus</i>	Northern dusky salamander						X
<i>Dremictylus v. viridescens</i>	Red-spotted newt						X
<i>Eumeces fasciatus</i>	Five-lined skink						X
<i>Eurycea b. bislineata</i>	Northern two-lined salamander						X
<i>Hemidactylium scutatum</i>	Four-toed salamander						X
<i>Plethodon c. cinereus</i>	Red-backed salamander						X
<i>Pseufotriton r. ruber</i>	Northern red salamander						X

New Jersey Wind Port

Table 8 (2 of 2)

Reptiles and Amphibians Observed On-Site and in the Vicinity of the PSEG Site, 2009 – 2010

Scientific Name	Common Name	Season			Location		Prior Survey
		Spring	Summer	Fall	Site	Vicinity	
<b>Turtles</b>							
<i>Caretta c. caretta</i>	Atlantic loggerhead						X
<i>Chelonia m. mydas</i>	Atlantic green turtle						X
<i>Chelydra serpentina</i>	Common snapping turtle	X	X	X	TS-01, TS-04, TS-10, TS-13, plant road near cooling tower		X
<i>Chrysemys picta picta</i>	Eastern painted turtle	X	X		TS-10, TS-13, TS-14, TS-16		X
<i>Chrysemys rubriventris</i>	Red-bellied turtle						X
<i>Clemmys muhlenbergi</i>	Bog turtle						X
<i>Clemmys guttata</i>	Spotted turtle						X
<i>Dermochelys c. coriacea</i>	Atlantic leatherback						X
<i>Eretmochelys f. imbricate</i>	Atlantic hawksbill						X
<i>Kinosternon s. subrubrum</i>	Eastern mud turtle						X
<i>Lepidochelya kempfi</i>	Kemp's ridley sea turtle						X
<i>Malaclemys terrapin</i>	Diamond-backed terrapin	X	X		TS-15	Plant access road	X
<i>Sternotherus odoratus</i>	Stinkpot						X
<i>Terrapene c. carolina</i>	Eastern box turtle						X
<b>Snakes</b>							
<i>Carphophis a. amoenus</i>	Eastern worm snake						X
<i>Coluber c. constrictor</i>	Northern black snake						X
<i>Diadophis p. edwardsi</i>	Northern ringneck snake						X
<i>Elaphe obsoleta obsoleta</i>	Black rat snake	X			TS-06		X
<i>Haldea v. valeriae</i>	Eastern earth snake						X
<i>Heterodon platyrhinos</i>	Eastern hognose snake						X
<i>Lampropeltis triangulum temporalis</i>	Coastal plain milk snake						X
<i>Lampropeltis g. getulus</i>	Eastern kingsnake						X
<i>Natrix s. sipedon</i>	Northern water snake						X
<i>Natrix septemvittata</i>	Queen snake						X
<i>Opheodrys aestivus</i>	Rough green snake						X
<i>Storeria dekayi dekayi</i>	Northern brown snake	X			TS-10		X
<i>Thamnophis s. sauritus</i>	Eastern ribbon snake						X
<i>Thamnophis sirtalis sirtalis</i>	Eastern garter snake	X				TS-02	X

## New Jersey Wind Port

### Table 9 (1 of 4)

#### Species Composition and Abundance in Fish Surveys of the Delaware River (River Miles 40 – 60) near the PSEG Site, 2003 – 2007

Scientific Name	Common Name	2003			2004		
		Trawl (Bottom)	Trawl (Pelagic)	Seine	Trawl (Bottom)	Trawl (Pelagic)	Seine
<i>Acipenser brevirostrum</i>	Shortnose sturgeon				1		
<i>Acipenser oxyrinchus</i>	Atlantic sturgeon			x			
<i>Anguilla rostrata</i>	American eel	167		x	64	3	x
<i>Conger oceanicus</i>	Conger eel						
<i>Hyporhamphus unifasciatus</i>	Halfbeak						
<i>Alosa aestivalis</i>	Blueback herring		14	x		43	x
<i>Alosa pseudoharengus</i>	Alewife	30	22	x	3	42	x
<i>Alosa sapidissima</i>	American shad		5	x		7	x
<i>Brevoortia tyrannus</i>	Atlantic menhaden		22	x		22	x
<i>Clupea harengus</i>	Atlantic herring	1	22				
<i>Dorosoma cepedianum</i>	Gizzard shad			x		1	x
<i>Anchoa hepsetus</i>	Striped anchovy		40	x		6	
<i>Anchoa mitchilli</i>	Bay anchovy	84	11,694	x	305	8568	x
<i>Cyprinus carpio</i>	Common carp			x			x
<i>Hybognathus regius</i>	Eastern silvery minnow			x			
<i>Ameiurus catus</i>	White catfish				3		x
<i>Ameiurus nebulosus</i>	Brown bullhead	1			1		
<i>Ictalurus punctatus</i>	Channel catfish	19		x	79		x
<i>Synodus foetans</i>	Inshore lizardfish						
<i>Opsanus tau</i>	Oyster toadfish	81			12		
<i>Gobiesox strumosus</i>	Skilletfish						
<i>Urophycis chuss</i>	Red hake	1					
<i>Urophycis regia</i>	Spotted hake	1019	87		232		
<i>Ophidion marginata</i>	Striped cusk-eel	155	3		14	1	
<i>Strongylura marina</i>	Atlantic needlefish		1	x		1	
<i>Cyprinodon variegatus</i>	Sheepshead minnow			x			
<i>Fundulus diaphanus</i>	Banded killifish						x
<i>Fundulus heteroclitus</i>	Mummichog			x			x
<i>Fundulus luciae</i>	Spotfin killifish						x
<i>Fundulus majalis</i>	Striped killifish			x			x
<i>Membras martinica</i>	Rough silverside						
<i>Menidia beryllina</i>	Inland silverside						
<i>Menidia menidia</i>	Atlantic silverside		24	x		2	x

## New Jersey Wind Port

Table 9 (2 of 4)

### Species Composition and Abundance in Fish Surveys of the Delaware River (River Miles 40 – 60) near the PSEG Site, 2003 – 2007

Scientific Name	Common Name	2003			2004		
		Trawl (Bottom)	Trawl (Pelagic)	Seine	Trawl (Bottom)	Trawl (Pelagic)	Seine
<i>Syngnathus fuscus</i>	Northern pipefish	1	6	x		6	x
<i>Prionotus carolinus</i>	Northern sea robin	9	1		2	1	
<i>Prionotus evolans</i>	Striped sea robin		1				
<i>Morone americana</i>	White perch	468	16	x	674	38	x
<i>Morone saxatilis</i>	Striped bass	126	27	x	56	7	x
<i>Centropristis striata</i>	Black sea bass	2					
<i>Enneacanthus gloriosus</i>	Bluespotted sunfish						
<i>Lepomis macrochirus</i>	Bluegill			x			
<i>Micropterus salmoides</i>	Largemouth bass						
<i>Etheostoma olmstedii</i>	Tessellated darter				1		
<i>Pomatomus saltatrix</i>	Bluefish		4	x		7	x
<i>Caranx hippos</i>	Crevalle jack						
<i>Trachinotus carolinus</i>	Pompano						
<i>Stenotomus chrysops</i>	Scup						
<i>Bairdiella chrysoura</i>	Silver perch					1	
<i>Cynoscion regalis</i>	Weakfish	267	468	x	1707	546	x
<i>Leiostomus xanthurus</i>	Spot			x			
<i>Menticirrhus saxatilis</i>	Northern kingfish	1			29		
<i>Micropogonias undulatus</i>	Atlantic croaker	3260	6663		7626	8725	x
<i>Pogonias cromis</i>	Black drum			x	1		x
<i>Chaetodipterus faber</i>	Atlantic spadefish						
<i>Mugil curema</i>	White mullet			x			
<i>Astroscopus guttatus</i>	Northern stargazer		1				
<i>Chasmodes bosquianus</i>	Striped blenny						
<i>Gobiosoma bosc</i>	Naked goby	87	27		17	40	
<i>Peprilus triacanthus</i>	Butterfish					3	
<i>Scomberomerus maculatus</i>	Spanish mackerel					1	x
<i>Etropus microstomus</i>	Smallmouth flounder		1				
<i>Paralichthys dentatus</i>	Summer flounder	1			2		x
<i>Scophthalmus aquosus</i>	Windowpane flounder				2		
<i>Pseudopleuronectes americanus</i>	Winter flounder				1		
<i>Trinectes maculatus</i>	Hogchoker	1192	17	x	1660	16	
<i>Symphurus plagiusa</i>	Blackcheek tonguefish						
Total number of individuals		6972	19,166		12,492	18,087	
Total number of species		21	23	27	23	23	24

## New Jersey Wind Port

Table 9 (3 of 4)

### Species Composition and Abundance in Fish Surveys of the Delaware River (River Miles 40 – 60) near the PSEG Site, 2003 – 2007

Scientific Name	Common Name	2005		2006		2007	
		Trawl (Bottom)	Seine	Trawl (Bottom)	Seine	Trawl (Bottom)	Seine
<i>Acipenser brevirostrum</i>	Shortnose sturgeon						
<i>Acipenser oxyrinchus</i>	Atlantic sturgeon						
<i>Anguilla rostrata</i>	American eel	93	x	70	x	46	x
<i>Conger oceanicus</i>	Conger eel					2	
<i>Hyporhamphus unifasciatus</i>	Halfbeak						x
<i>Alosa aestivalis</i>	Blueback herring	6	x			2	x
<i>Alosa pseudoharengus</i>	Alewife	9	x			22	x
<i>Alosa sapidissima</i>	American shad		x	1	x	1	x
<i>Brevoortia tyrannus</i>	Atlantic menhaden		x	1	x		x
<i>Clupea harengus</i>	Atlantic herring						
<i>Dorosoma cepedianum</i>	Gizzard shad	2	x		x		x
<i>Anchoa hepsetus</i>	Striped anchovy		x		x		x
<i>Anchoa mitchilli</i>	Bay anchovy	105	x	227	x	220	x
<i>Cyprinus carpio</i>	Common carp		x		x		
<i>Hybognathus regius</i>	Eastern silvery minnow	2		1			
<i>Ameiurus catus</i>	White catfish	1	x	3	x	7	x
<i>Ameiurus nebulosus</i>	Brown bullhead		x	2			
<i>Ictalurus punctatus</i>	Channel catfish	33	x	5	x	20	x
<i>Synodus foetans</i>	Inshore lizardfish				x		
<i>Opsanus tau</i>	Oyster toadfish	36		33		49	
<i>Gobiesox strumosus</i>	Skilletfish					1	
<i>Urophycis chuss</i>	Red hake			2			
<i>Urophycis regia</i>	Spotted hake	34		457		60	
<i>Ophidion marginata</i>	Striped cusk-eel	66		30		17	
<i>Strongylura marina</i>	Atlantic needlefish		x				
<i>Cyprinodon variegatus</i>	Sheepshead minnow						
<i>Fundulus diaphanus</i>	Banded killifish						
<i>Fundulus heteroclitus</i>	Mummichog		x		x		x
<i>Fundulus luciae</i>	Spotfin killifish						
<i>Fundulus majalis</i>	Striped killifish		x		x		x
<i>Membras martinica</i>	Rough silverside						x
<i>Menidia beryllina</i>	Inland silverside				x		
<i>Menidia menidia</i>	Atlantic silverside		x		x		x
<i>Syngnathus fuscus</i>	Northern pipefish	7		1		4	

## New Jersey Wind Port

Table 9 (4 of 4)

### Species Composition and Abundance in Fish Surveys of the Delaware River (River Miles 40 – 60) near the PSEG Site, 2003 – 2007

Scientific Name	Common Name	2005		2006		2007	
		Trawl (Bottom)	Seine	Trawl (Bottom)	Seine	Trawl (Bottom)	Seine
<i>Prionotus carolinus</i>	Northern sea robin	3		9		9	
<i>Prionotus evolans</i>	Striped sea robin						
<i>Morone americana</i>	White perch	470	x	243	x	435	x
<i>Morone saxatilis</i>	Striped bass	169	x	9	x	9	x
<i>Centropristis striata</i>	Black sea bass			2		12	
<i>Enneacanthus gloriosus</i>	Bluespotted sunfish				x		
<i>Lepomis macrochirus</i>	Bluegill						
<i>Micropterus salmoides</i>	Largemouth bass		x				
<i>Etheostoma olmstedi</i>	Tessellated darter						
<i>Pomatomus saltatrix</i>	Bluefish		x		x	2	x
<i>Caranx hippos</i>	Crevaille jack		x		x		
<i>Trachinotus carolinus</i>	Pompano						x
<i>Stenotomus chrysops</i>	Scup			1		5	
<i>Bairdiella chrysoura</i>	Silver perch	9	x	8		7	x
<i>Cynoscion regalis</i>	Weakfish	4497	x	682	x	845	x
<i>Leiostomus xanthurus</i>	Spot	147	x	1	x	29	x
<i>Menticirrhus saxatilis</i>	Northern kingfish	8	x	46	x	87	x
<i>Micropogonias undulatus</i>	Atlantic croaker	2001	x	3295	x	2948	x
<i>Pogonias cromis</i>	Black drum	9	x		x	10	x
<i>Chaetodipterus faber</i>	Atlantic spadefish					3	
<i>Mugil curema</i>	White mullet		x				x
<i>Astroscopus guttatus</i>	Northern stargazer	1				6	
<i>Chasmodes bosquianus</i>	Striped blenny	1					
<i>Gobiosoma bosc</i>	Naked goby	21		2		2	
<i>Peprilus triacanthus</i>	Butterfish			1			
<i>Scomberomus maculatus</i>	Spanish mackerel						
<i>Etropus microstomus</i>	Smallmouth flounder			1		25	
<i>Paralichthys dentatus</i>	Summer flounder	4	x	1		4	x
<i>Scophthalmus aquosus</i>	Windowpane flounder	1		14			
<i>Pseudopleuronectes americanus</i>	Winter flounder	1					
<i>Trinectes maculatus</i>	Hogchoker	1854		1594	x	1221	x
<i>Symphurus plagiusa</i>	Blackcheek tonguefish			10			
Total number of individuals		9590		6752		6110	
Total number of species		28	29	30	25	31	28

x = present in collections from PSEG Beach Seine Program

## New Jersey Wind Port

**Table 10**

**Recorded Endangered and Threatened Species  
Potentially Occurring in the Vicinity of the PSEG Site<sup>(a)</sup>**

Scientific Name	Common Name	Federal Status	NJ Status	DE Status
<b>Birds</b>				
<i>Accipiter cooperii</i>	Cooper's hawk		T	
<i>Buteo lineatus</i>	Red-shouldered hawk		E/T <sup>(b)</sup>	
<i>Circus cyaneus</i>	Northern harrier		E	E
<i>Haliaeetus leucocephalus</i>	Bald eagle <sup>(d)</sup>		E	E
<i>Melanerpes erythrocephalus</i>	Red-headed woodpecker		T/T <sup>(b)</sup>	
<i>Pandion haliaetus</i>	Osprey		T/T <sup>(b)</sup>	
<b>Fish</b>				
<i>Acipenser brevirostrum</i>	Shortnose sturgeon	E	E	
<i>Acipenser oxyrinchus</i>	Atlantic sturgeon	E	E	E
<b>Reptiles</b>				
<i>Chelonia mydas</i>	Atlantic green turtle	T	T	E
<i>Caretta caretta</i>	Atlantic loggerhead turtle	T	E	E
<i>Dermochelys coriacea</i>	Leatherback turtle	E	E	
<i>Lepidochelys kempii</i>	Kemp's ridley turtle	E	E	E
<i>Glyptemys muhlenbergii</i>	Bog turtle <sup>(c)</sup>	T		E

E = Endangered; T = Threatened

- a) Potential for occurrence based on habitat types found within the site and 6-mi. vicinity and along proposed causeway
- b) Breeding/Non-breeding
- c) Not recorded during the 2009 field studies or in any other historical records.
- d) Also protected under the Bald and Golden Eagle protection Act.

## New Jersey Wind Port

### Table 11 (1 of 2)

#### List of threatened and endangered species potentially occurring near the PSEG Site (Sources: NJDEP 2010, USFWS 2010) NJDEP 2010, USFWS 2010)

Common Name	Scientific Name	State Status	Federal Status
<b>Birds</b>			
Bald eagle	<i>Haliaeetus leucocephalus</i>	E	-
Peregrine falcon	<i>Falco peregrinus</i>	E	-
Osprey	<i>Pandion haliaetus</i>	T/T	-
Northern harrier	<i>Circus cyaneus</i>	E/U	-
Grasshopper sparrow	<i>Ammodramus savannarum</i>	T/S	-
Savannah sparrow	<i>Passerculus sandwichensis</i>	T/T	-
Vesper sparrow	<i>Pooectes gramineus</i>	E	-
Sedge wren	<i>Cistothorus platenis</i>	E	-
Pied-billed grebe	<i>Podilymbus podiceps</i>	E/S	-
Upland sandpiper	<i>Bartramia longicauda</i>	E	-
Bobolink	<i>Dolichonyx oryzivorus</i>	T/T	-
Cooper's hawk	<i>Accipiter cooperii</i>	T/T	-
Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	T/T	-
<b>Mammals</b>			
Bobcat	<i>Lynx rufus</i>	E	-
<b>Fish</b>			
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E	E
Atlantic sturgeon	<i>A. oxyrinchus oxyrinchus</i>	E	C - Subsequently listed as E by NMFS in April 2012
<b>Reptiles and Amphibians</b>			
Atlantic loggerhead turtle	<i>Caretta caretta</i>	E	T
Atlantic green turtle	<i>Chelonia mydas</i>	T	T
Atlantic hawksbill turtle	<i>Eretmochelys imbricata</i>	E	E
Leatherback turtle	<i>Dermochelys coriacea</i>	E	E
Kemp's ridley turtle	<i>Lepidochelys kempii</i>	E	E
<b>Plants</b>			
Sensitive Joint Vetch	<i>Aeschynomene virginica</i>	E	T
Low rough aster	<i>Eurybia radula (Aster radula)</i>	E	-
Erect bindweed	<i>Calystegia spithamea</i>	E	-
Coast flat sedge	<i>Cyperus polystachyos</i>	E	-
Black-fruit spike-rush	<i>Eleocharis melanocarpa</i>	E	-
Sandplain flax	<i>Linum intercursum</i>	E	-
American lotus	<i>Nelumbo lutea</i>	E	-
Woolly three-awn grass	<i>Aristida lanos</i>	E	-
Marsh flat sedge	<i>Cyperus pseudovegetus</i>	E	-
Carolina elephant-foot	<i>Elephantopus carolinianus</i>	E	-



## New Jersey Wind Port

**Table 11 (2 of 2)**

<b>Common Name</b>	<b>Scientific Name</b>	<b>State Status</b>	<b>Federal Status</b>
Darlington's glade spurge	<i>Euphorbia purpurea</i>	E	-
Featherfoil	<i>Hottonia inflata</i>	E	-
Floating marsh-pennywort	<i>Hydrocotyle ranunculoides</i>	E	-
Barton's St. John's-wort	<i>Hypericum adpressum</i>	E	-
Minute duckweed	<i>Lemna perpusilla</i>	E	-
Hairy wood-rush	<i>Luzula acuminata</i>	E	-
Virginia bunchflower	<i>Melanthium virginicum</i>	E	-
Cut-leaf water-milfoil	<i>Myriophyllum pinnatum</i>	E	-
Virginia false-gromwell	<i>Onosmodium virginianum</i>	E	-
Southern adder's tongue	<i>Ophioglossum vulgatum</i> <i>pycnostichum</i>	E	-
Greek-valerian	<i>Polemonium reptans</i>	E	-
Chickasaw plum	<i>Prunus angustifolia</i>	E	-
Dwarf azalea	<i>Rhododendron atlanticum</i>	E	-
Coarse grass-like beaked-rush	<i>Rhynchospora globularis</i>	E	-
Small skullcap	<i>Scutellaria leonardii</i>	E	-
Two-flower bladderwort	<i>Utricularia biflora</i>	E	-
Broad-leaf ironweed	<i>Vernonia glauca</i>	E	-
Squirrel-tail six-weeks grass	<i>Vulpia elliothea</i>	E	-
Sword bogmat	<i>Wolffiella floridana</i>	E	-

<sup>1</sup> State status for birds separated by a slash(/) indicates a dual status. First status refers to the state breeding population, and the second status refers to the migratory or winter population. E = Endangered; T = Threatened; S = Stable; C = Candidate; - = Not listed. (NJDEP 2008g)

<sup>2</sup> E = Endangered; T = Threatened; - = Not listed.

## New Jersey Wind Port

### Table 12

#### PSEG SPONSORED PUBLIC ACCESS TO THE WATERFRONT, NEW JERSEY

Site Name, Town(s), County, State	Acreage Available to the Public	Observation Areas Boardwalks/Platforms/Natural Trails (All NJ sites feature osprey platforms, viewing areas and educational signs.)	Fishing, Crabbing Hunting, Trapping
<i>Alloway Creek Watershed Elsinboro &amp; Hancocks Bridge Salem County, NJ</i>	3,096	NJ Coastal Heritage Trail Route Site Observation Platform & Tower Viewing Area Boardwalk to Beach Eagle Island Trail (1.35 mi) Money Island Trail (<.5 mi) Parking Areas (4) Boat Ramp (offsite; Sinnickson-Landing Rd)	Yes
<i>Bayside Tract Greenwich Cumberland County, NJ</i>	4,407	Observation Area (Caviar Point) Parking Area (8)	Yes
<i>Cohansey River Watershed Hopewell &amp; Fairton Cumberland County, NJ</i>	1,055	NJ Coastal Heritage Trail Route Site Outdoor Classroom Viewing Areas Nature Trail (<.5 mi) Parking Area (1) Boardwalk Boat Ramp	Yes
<i>Commercial Township Port Norris &amp; Bivalve Cumberland County, NJ</i>	4,171	NJ Coastal Heritage Trail Route Site Observation Platforms (3) Nature Trail (1.68 mi) Parking Area (3) Car-Top Boat Launch	Yes
<i>Cooper River Fish Ladder Camden Camden County, NJ</i>		Education Signs	Limited bank fishing
<i>Dennis Township Eldora Cape May County, NJ</i>	578	NJ Coastal Heritage Trail Route Site Observation Areas (2) Floating Dock Platform Nature Tail (.18 mi) Parking Areas (2) Car-Top Boat Launch	Yes
<i>Maurice River Township Heislerville Cape May County, NJ</i>	1,396	NJ Coastal Heritage Trail Route Site Observation Platform Parking Areas (2) Boat Launches (2)	Yes
<i>Newton Lake Fish Ladder Oaklyn Camden County, NJ</i>		Education Signs	Limited bank fishing
<i>Stewart Lake Fish Ladder Woodbury Gloucester County, NJ</i>		Education Signs	Limited bank fishing
<i>Sunset Lake Fish Ladder Cohansey River Bridgeton, Cumberland</i>	94	Nature Tail and Education Signs Parking nearby	Limited bank fishing