Appendix E.05
Hydrologic/Water Resources
(Coastal Zones and Saltwater Wetlands)

APPENDIX E.05

HYDROLOGIC/WATER RESOURCES (COASTAL ZONES AND SALTWATER WETLANDS) – ERRATA SHEET

No changes were made to the materials in this appendix. This Volume 2 file contains the same information as was presented in the Tier 1 Draft EIS published November 2015.

NEC FUTURE
A Rail Investment Plan for the Northeast Corridor

Coastal Zones and Saltwater Wetlands Effects Assessment Methodology

December 9, 2013
FINAL

Submitted by:

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A JOINT VENTURE

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1. Coastal Zones & Saltwater Wetlands

1.1 INTRODUCTION

This methodology explains how the NEC FUTURE program will address the potential effects of the Tier 1 EIS Alternatives on coastal zones and saltwater wetlands in the Tier 1 EIS.

This methodology presents the regulatory framework, involved government agencies, expected regulatory and other outcomes of the Tier 1 EIS process, and relevance to Tier 2, project-level assessments. It also identifies data sources, metrics and methods to be used to document existing conditions and analyze environmental consequences. This methodology may be revised as the NEC FUTURE program advances and new information is available.

1.2 DEFINITIONS

Section 304 of the Coastal Zone Management Act (CZMA) defines the term "coastal zone" as coastal waters (including the lands therein and thereunder) and the adjacent shorelines, strongly influenced by each other and in proximity to the shorelines of the coastal states. Designated coastal zones include islands, transitional and intertidal areas, coastal/salt marshes (saltwater wetlands), and beaches. The zone extends inland from the shorelines only to the extent necessary as determined by each individual state that has a designated coastal zone.

Within the NEC FUTURE Study Area, the following states have designated coastal zones and programs: Maryland, Delaware, Pennsylvania, New Jersey, New York, Connecticut, Rhode Island, and Massachusetts. The District of Columbia does not have a designated coastal zone.

1.3 RELATED RESOURCES

The effects assessment from other resources evaluated as part of the Tier 1 EIS will contribute to the assessment of effects on coastal zones and saltwater wetlands. These related resources are identified in Table 1. Note that the effects assessments for those related resources will be documented within their respective Tier 1 EIS sections.

Table 1 – Related Resource Inputs to Coastal Zones and Saltwater Wetlands Assessment

Resource	Input to Coastal Zones and Saltwater Wetlands Assessment
Water Resources	▪ Identification and assessment of effects on freshwater resources within coastal zones
Floodplains	▪ Identification and assessment of effects on floodplains within coastal zones
Ecological Resources	▪ Identification and assessment of effects on ecological resources within coastal zones
Climate Change	▪ Effects assessment and identification of areas of vulnerability within coastal zones

Source: NEC FUTURE JV Team, 2013

1.4 AGENCY AND REGULATORY FRAMEWORK

Coastal zones are protected under the CZMA and are subject to management by the National Oceanic Atmospheric Administration (NOAA) and regulation by states that have established coastal zones. Applicable legislation and regulations, listed in Table 2 will be considered, consistent with a Tier 1 level of assessment, in the evaluation of coastal zones and saltwater wetlands for the NEC FUTURE program.

Table 2 –Management and Regulation of Coastal Zones and Saltwater Wetlands

Federal/State Agency	Regulatory Oversight	Description of Regulation	Regulated Resource
National Oceanic Atmospheric Administration (NOAA) Office of Ocean and Coastal Resource Management (ORCM)	▪ Coastal Zone Management Act (CZMA)	▪ Empowers state's management of programs impacting the coastal zone	▪ Nation's coastal resources
U.S. Army Corps of Engineers	▪ The Clean Water Act, Section 404	▪ Regulates the discharge of dredged or fill material into waters of the US	▪ Waters of the US, including wetlands ▪ Dredge and fill of wetlands
U.S. Environmental Protection Agency	▪ Chesapeake Bay Program[1] ▪ Chesapeake Bay Total Maximum Daily Load (TMDL)	▪ Coordinates the restoration of the Chesapeake Bay and its watershed in participating states ▪ Establishes TMDL pollution control measures and requires Watershed Implementation Plans from participating states	▪ Waters of the Chesapeake Bay and its watershed ▪ Water quality pollution control in the Chesapeake Bay and its watershed
Maryland Department of Natural Resources, Chesapeake & Coastal Program	▪ Federal Consistency	▪ As per the CZMA, clarifies how the state manages and protects coastal resources	▪ Maryland's Coastal Resources
Delaware Department of Natural Resources and Environmental Control, Delaware Coastal Management Program	▪ Federal Consistency	▪ As per the CZMA, clarifies how the state manages and protects coastal resources	▪ Delaware's Coastal Resources
Pennsylvania Department of Environmental Protection Coastal Resources Management Program	▪ Federal Consistency	▪ As per the CZMA, clarifies how the state manages and protects coastal resources	▪ Pennsylvania's Coastal Resources

Table 2 –Management and Regulation of Coastal Zones and Saltwater Wetlands (continued)

Federal/State Agency	Regulatory Oversight	Description of Regulation	Regulated Resource
New Jersey Department of Environmental Protection	▪ Wetlands ▪ Federal Consistency	▪ As per the CZMA, clarifies how the state manages and protects coastal resources	▪ Wetlands within the state of New Jersey, except those within the Meadowlands ▪ New Jersey's Coastal Resources
New York State Department of State, Office of Coastal, Local Government and Community Sustainability	▪ Federal Consistency	▪ As per the CZMA, clarifies how the state manages and protects coastal resources	▪ New York's Coastal Resources
Connecticut Department of Energy and Environmental Protection, Office of Long Island Sound Program	▪ Federal Consistency	▪ As per the CZMA, clarifies how the state manages and protects coastal resources	▪ Connecticut's Coastal Resources
Rhode Island Coastal Resources Management Council	▪ Federal Consistency	▪ As per the CZMA, clarifies how the state manages and protects coastal resources	▪ Rhode Island's Coastal Resources
Massachusetts Executive Office of Environmental Affairs, Office of Coastal Zone Management	▪ Federal Consistency	▪ As per the CZMA, clarifies how the state manages and protects coastal resources	▪ Massachusetts's Coastal Resources

Source: NEC FUTURE JV Team, 2013

1. Per the USEPA's website "The Chesapeake Bay Program is a unique regional partnership that has coordinated the restoration of the Chesapeake Bay and its watershed since 1983. Bay Program partners include the states of Delaware, Maryland, New York, Pennsylvania, Virginia and West Virginia; the District of Columbia; the Chesapeake Bay Commission, a tri-state legislative body; the USEPA, representing the federal government; and participating advisory groups representing citizens, local governments and the scientific community."

Under the CZMA, direct federal actions, Federal license or permit activities and federal financial assistance activities that have reasonably foreseeable coastal effects must be consistent with the enforceable policies of state coastal management programs. Federal projects must conduct a Federal Consistency Determination, involving coordination with the appropriate state agency (Table 2) to ensure that their actions are consistent and comply with each state's enforceable policies.

1.4.1 Regulatory Compliance

No formal agency approvals or Consistency Determinations would be requested for the Tier 1 EIS. However, the FRA will engage in dialogue with NOAA, USEPA and USACE on the methodologies, assumptions, and findings of the Tier 1 EIS analyses. The requirements for subsequent Tier 2

evaluations, including compliance with the Coastal Zone Management Act, as well as state regulations, will be described in the Tier 1 EIS. During the Tier 1 EIS process, the FRA will identify potential opportunities to streamline subsequent Tier 2 environmental reviews (see Section 1.7). Coordination with NOAA, USEPA, USACE and state agencies will be consistent with the NEC FUTURE's Agency Coordination Plan and support the Statement of Principles (SOP) established between the FRA and federal regulatory agencies as part of the Council on Environmental Quality (CEQ) Pilot program.

1.5 METHODOLOGY TO ASSESS EFFECTS

This effects assessment methodology identifies the approach and assumptions for describing existing conditions of coastal zones and saltwater wetlands and the environmental consequences of the Tier 1 EIS Alternatives on those resources. It identifies data sources, defines the Affected Environment and Context Area considered for coastal zones and saltwater wetlands, and the approach for evaluating potential direct effects.[1] Direct effects include encroachment or alteration of coastal zones. Indirect effects,[2] such as those induced by growth, will be addressed in a separate methodology (see Indirect Effects Assessment Methodology).

1.5.1 Existing Conditions

The data sources listed in Table 3 will be used to establish the existing conditions for coastal zones and saltwater wetlands.

Table 3 – Data Sources for the Evaluation of Coastal Zones and Saltwater Wetlands

Resource	Data Source	Data Application
Coastal Zones	▪ National Geographic Boundary of Coastal Resources, USFWS 2010 ▪ Geographic Boundary of Coastal Resources for MD, MD DNR 2011 ▪ Geographic Boundary of Coastal Resources for DE, Coastal Zone Act Program, 2010 ▪ Geographic Boundary of Coastal Resources for PA, PA Coastal Management Program, 2004 ▪ Geographic Boundary of Coastal Resources for NJ, NJDEP 1996 ▪ Geographic Boundary of Coastal Resources for NY, NYSDEC 2011 ▪ Geographic Boundary of Coastal Resources for CT, CT DEP ▪ Geographic Boundary of Coastal Resources for RI, DEM 2003 ▪ Geographic Boundary of Coastal Resources for MA, MA CZMP 2007	▪ Coastal zones information within Affected Environment and Context Area will be mapped using GIS
Saltwater Wetlands	▪ US Fish and Wildlife Service, National Wetlands Inventory	▪ Saltwater Wetlands information within the Affected Environment and Context Area will be mapped using GIS

Source: NEC FUTURE JV, 2013

[1] Direct Effects are caused by the action and occur at the same time and place (40 CFR § 1508.8)
[2] Indirect Effects are those effects that occur later in time or are further removed in distance (40 CFR § 1508.8)

The existing conditions for coastal zones and saltwater wetlands will be documented in the Tier 1 EIS for an established Affected Environment and Context Area. The Affected Environment is a 2,000-foot wide swath centered on the Representative Routes[3] for each of the Tier 1 EIS Alternatives. This 2,000-foot-swath is sufficiently wide to:

- Encompass and account for the improvements associated with a Representative Route including infrastructure improvements (such as embankments, aerial structures, track improvements), ancillary facilities (such as stations, yards and parking structures), or service changes
- Account for contiguous coastal zones and saltwater wetland features that may extend beyond the Representative Route

General features and unique characteristics of coastal zones identified as occurring within the Affected Environment will be documented and the area mapped. The total area (acres) of saltwater wetlands identified within the Affected Environment will be calculated using GIS, and mapped. Existing conditions documented for the Affected Environment for water resources, floodplains, ecological resources and climate change will be discussed qualitatively and included as applicable to coastal zones.

The Context Area is five miles wide, centered on the Representative Route for each of the Tier 1 EIS Alternatives. Within the Context Area, coastal zones and saltwater wetlands will be mapped but acreage of saltwater wetlands will not be quantified. For resources within the Context Area, general characteristics of and relative size and location of, coastal zones and saltwater wetlands will be presented; this information will be used to supplement the quantitative assessment of effects for the Affected Environment.

1.5.2 Environmental Consequences

Environmental consequences will be assessed for the Affected Environment. A qualitative assessment of resources present in the Context Area will be used to supplement that effects assessment.

For the Affected Environment, the assessment of potential effects of Tier 1 EIS Alternatives on coastal zones and saltwater wetlands will include: 1) a review of GIS data to focus analysis on those resources present within the Affected Environment; 2) an evaluation of the potential for the Tier 1 EIS Alternatives to disturb these resources, and 3) the environmental consequences that may occur as a result of the disturbance to coastal zones and saltwater wetlands.

[3] Representative Route refers to a proposed route or potential alignment for a Tier 1 EIS Alternative. The Representative Route includes the physical footprint of the improvements associated with the Tier 1 EIS Alternatives. The horizontal and vertical dimensions of the footprint of the Representative Route are based on prototypical cross-sections for these improvements. The Representative Route is used as a proxy for estimating the potential effects of a route whose location could shift during subsequent project-level reviews.

The following steps will be undertaken to evaluate the environmental consequences:

- Coastal Zones
  - Using GIS, mapped coastal zones will be overlain with the Representative Route of each Tier 1 EIS Alternative in order to calculate the route miles of each Tier 1 EIS Alternative that fall within the coastal zone(s). Route miles will be reported by county and totaled for each state and each Tier 1 EIS Alternative.
  - Mapped and quantified effects on water resources, floodplains, ecological resources and climate change as identified in Table 1 will be overlain with the designated coastal zone boundaries for each state. In this way, effects to those resources that specifically occur within the designated coastal zones will be identified.
  - Environmental consequences to coastal zones will consider the documented effects on water resources, floodplains, ecological resources and climate change identified in Step 2. The effects documented in those sections will be summarized to demonstrate how those effects relate to the applicable state's enforceable policies for coastal management.
- Saltwater Wetlands
  - Using GIS, mapped saltwater wetlands will be overlain with the Representative Route associated with each Tier 1 EIS Alternative in order to calculate the area (acreage) of saltwater wetlands potentially impacted by the Tier 1 EIS Alternatives. Saltwater wetland effects will be presented by wetland type, wetland classifications as defined by the USFWS/NJDEP, and acreage. Identified saltwater wetlands will be mapped.

For the Context Area, coastal zones and saltwater wetlands will be qualitatively discussed and mapped with regard to their potential to be affected should there be a shift in a Representative Route.

Temporary construction-related effects to coastal zones and saltwater wetlands will be described as to the location, duration and type of activity. The NEC FUTURE program overall approach to assessing construction-related effects at the Tier 1 EIS level is further described in a separate Construction Effects Assessment Approach document. Construction methods and activities for Tier 1 EIS Alternatives will be the basis of this assessment and will be described in Chapter 2.

1.5.3 Mitigation Strategies

A menu of potential mitigation measures will be developed on a programmatic scale for further consideration in Tier 2. Mitigation strategies would be consistent for those discussed for water resources, floodplains, ecological resources and climate change. An example of programmatic mitigation measures for coastal zones and saltwater wetlands would be to incorporate Low Impact Development (LID) measures such as the use of pervious materials when designing rail infrastructure, using natural materials and recreating natural landscapes.

1.6 TIER 1 EIS OUTCOMES

The Tier 1 coastal zone and saltwater wetlands assessment will:

- Map designated coastal zones in the Affected Environment and Context Area
- Quantify route miles of the Tier 1 EIS Alternatives within designated coastal zones for the Affected Environment
- Overlay water resources, floodplains, ecological resources, and areas of vulnerability to climate change that occur within the Affected Environment for coastal zones and saltwater wetlands , as described in Table 1
- Demonstrate potential consistency with state enforceable policies
- Identify areas where future program-related actions will require Federal Consistency Determinations
- Identify acreage of potential effects on saltwater wetlands
- Identify potential mitigation strategies
- Describe regulatory compliance requirements for subsequent Tier 2 evaluations

1.7 APPLICABILITY TO TIER 2 ASSESSMENTS

The Tier 1 EIS analysis will identify coastal zones and saltwater wetlands that could be affected by the Tier 1 EIS Alternatives. Required Federal Consistency determinations and delineations of saltwater wetlands will be completed as part of Tier 2 efforts. Additionally, FRA will identify ways in which agency coordination during the Tier 1 process could create efficiencies and help streamline subsequent Tier 2 reviews and approvals. For example, if a particular portion or element of a Tier 1 EIS alternative avoids a coastal zone and avoids direct and/or indirect effects on saltwater wetlands, FRA would coordinate with NOAA, USEPA, USACE and the applicable state regulatory authority to determine whether or not those portions need further evaluation at a Tier 2 assessment.

Application of Effects-Assessment Methodology

5.3 COASTAL RESOURCES: APPLICATION OF EFFECTS-ASSESSMENT METHODOLOGY

5.3.1 Variations to Effects-Assessment Methodology

There were no variations to the Effects-Assessment Methodology during the Tier 1 Draft EIS analysis.

5.3.2 Data Variations

There were no variations from the identified data sources in the Effects-Assessment Methodology during the development of the Tier 1 Draft EIS analysis.

5.3.3 Criteria for Analysis

Existing Conditions

- Saltwater Wetlands
  - Data calculations were based on the National Wetlands Inventory.
  - The FRA calculated the total number of acres of saltwater wetlands within the Affected Environment by overlaying the Affected Environment of each Action Alternative with the National Wetlands Inventory dataset for each county and state.
  - The FRA calculated the average total number of acres of saltwater wetlands within the Affected Environment by county. All counties encompassing the average of 200 or more acres of saltwater wetlands within the Affected Environment of each Action Alternative and the existing NEC were further identified as having the largest potential impacts to saltwater wetlands. Waterbodies within those counties and the Affected Environment of each Action Alternative were also identified.
  - The FRA calculated the total number of acres of saltwater wetlands present within each county and separately for each state as a percentage of the total area of the Affected Environment within that same county or state.
- Coastal Zone Management Act (CZMA)
  - The FRA identified each county in which the route intersected the CZMA by overlaying the Affected Environment of each Action Alternative with the designated coastal zone boundary as defined by each state.
  - For each state, the FRA described the CZMA.

Environmental Consequences

- Saltwater Wetlands
  - Data calculations were based on the National Wetlands Inventory.
  - The FRA calculated the total number of acres of saltwater wetlands within the Representative Route by overlaying the Representative Route of each Action Alternative with the National Wetlands Inventory dataset for each county and state.

  - The FRA calculated the average total number of acres of saltwater wetlands within the Representative Route by county. All counties encompassing the average of 10 or more acres of saltwater wetlands within the Representative Route were further identified as having the largest potential impacts to saltwater wetlands. Waterbodies within those counties and the Representative Route of each Action Alternative were also identified.
  - The FRA calculated the total number of acres of saltwater wetlands present within the Representative Route for each county and separately for each state as a percentage of the total area of the Representative Route within that same county or state.

- CZMA
  - The FRA calculated the total number of route miles within the CZMA by overlaying the Representative Route of each Action Alternative with each state's coastal zone management area boundaries by county and state.
  - The FRA calculated the total number of route miles within the CZMA for each county and separately for each state as a percentage of the total number of route miles within the Representative Route of that same county or state.

Environmental Consequences – Stations

- Potential station impacts were calculated using the same GIS data layers and processes as described earlier in this section for the Environmental Consequences analysis.

Data Matrices – Coastal Zones

Geography		Resource	Coastal Zone						
			Environmental Consequences (Route Miles)						
						Alternative 3			
State	County		Existing NEC	Alternative 1	Alternative 2	via CC and PVD (3.1)	via LI and PVD (3.2)	via LI and WOR (3.3)	via CC and WOR (3.4)
DC	District of Columbia		0	0	0	0	0	0	0
MD	Prince George's		0	0	0	0	0	0	0
MD	Anne Arundel		0	0	0	0	0	0	0
MD	Howard		0	0	0	0	0	0	0
MD	Baltimore County	Chesapeake Bay	0	0	0	0	0	0	0
MD	Baltimore City	Chesapeake Bay	0	0	0	0	0	0	0
MD	Harford	Chesapeake Bay	0	0	1	1	1	1	1
MD	Cecil	Chesapeake Bay	0	0	0	0	0	0	0
DE	New Castle	Delaware Bay / Delaware River	23	23	31	44	44	44	44
PA	Delaware	Delaware Bay / Delaware River	6	6	12	17	17	17	17
PA	Montgomery		0	0	0	0	0	0	0
PA	Philadelphia	Delaware Bay / Delaware River	5	5	10	14	14	14	14
PA	Bucks	Delaware Bay / Delaware River	16	16	16	33	33	33	33
NJ	Salem		0	0	0	0	0	0	0
NJ	Gloucester		0	0	0	0	0	0	0
NJ	Camden		0	0	0	0	0	0	0
NJ	Burlington		0	0	0	0	0	0	0
NJ	Mercer	Delaware Bay / Delaware River	0	0	*	0	0	0	0
NJ	Middlesex	Raritan Bay / Raritan River	0	0	0	0	0	0	0
NJ	Somerset		0	0	0	0	0	0	0
NJ	Union	Raritan Bay / Raritan River	*	0	*	*	0	0	*
NJ	Essex	Newark Bay / Hackensack River	0	0	0	0	0	0	0
NJ	Bergen		0	0	0	0	0	0	0
NJ	Hudson	Newark Bay / Hackensack River and Hudson River	1	2	2	3	3	3	3
NY	New York	Hudson River and East River	3	3	4	7	7	7	7
NY	Richmond		0	0	0	0	0	0	0
NY	Queens	East River	1	1	2	2	4	4	2
NY	Kings	East River and Long Island Sound	0	0	0	0	1	1	0
NY	Bronx	Long Island Sound	6	6	6	12	6	6	12
NY	Westchester	Long Island Sound	3	3	7	7	3	3	7
NY	Putnam		0	0	0	0	0	0	0
NY	Nassau		0	0	0	0	0	0	0
NY	Suffolk		0	0	0	0	9	9	0
CT	Fairfield	Long Island Sound	34	46	54	47	51	51	47
CT	Litchfield		0	0	0	0	0	0	0
CT	New Haven	Long Island Sound	34	34	42	34	57	57	34
CT	Hartford		0	0	0	0	0	0	0
CT	Tolland		0	0	0	0	0	0	0
CT	Windham		0	0	0	0	0	0	0
CT	Middlesex	Long Island Sound	12	14	12	12	12	12	12
CT	New London	Long Island Sound	34	63	34	34	34	34	34
RI	Washington	Narragansett Bay	0	*	0	0	0	0	0
RI	Kent	Narragansett Bay	0	0	0	0	0	0	0
RI	Providence	Narragansett Bay	0	*	1	1	1	0	0
MA	Hampden		0	0	0	0	0	0	0
MA	Worcester		0	0	0	0	0	0	0
MA	Middlesex	Boston Harbor	0	0	0	0	0	0	0
MA	Bristol		0	0	0	0	0	0	0
MA	Norfolk		0	0	0	0	0	0	0
MA	Suffolk	Boston Harbor	1	1	1	1	1	2	2
DC	Total		0	0	0	0	0	0	0
MD	Total		1	1	1	1	1	1	1
DE	Total		23	23	31	44	44	44	44
PA	Total		28	28	38	64	64	64	64
NJ	Total		1	2	2	3	3	3	3
NY	Total		13	13	19	28	30	30	28
CT	Total		115	157	142	128	154	154	128
RI	Total		0	0	1	1	1	0	0
MA	Total		1	1	1	1	1	2	2
Grand Total			182	225	234	270	299	299	271

*Potential impacts of less than 0.5 acres.

Geography		Resource	Station ID	Station Type	Coastal Zone					
					Stations (Occurrences)					
							Alternative 3			
State	County				Alternative 1	Alternative 2	via CC and PVD (3.1)	via LI and PVD (3.2)	via LI and WOR (3.3)	via CC and WOR (3.4)
DC	District of Columbia		1	Existing	0	0	0	0	0	0
MD	Prince George's		2	Existing	0	0	0	0	0	0
MD	Prince George's		3	Existing	0	0	0	0	0	0
MD	Prince George's		4	Existing	0	0	0	0	0	0
MD	Anne Arundel		5	Existing	0	0	0	0	0	0
MD	Anne Arundel		6	Existing	0	0	0	0	0	0
MD	Anne Arundel		6	New	0	0	0	0	0	0
MD	Baltimore County		7	Existing	0	0	0	0	0	0
MD	Baltimore County		15	Existing	0	0	0	0	0	0
MD	Baltimore City		8	Existing	0	0	0	0	0	0
MD	Baltimore City		9	New	0	0	0	0	0	0
MD	Baltimore City		10	Existing	0	0	0	0	0	0
MD	Baltimore City		11	New	0	0	0	0	0	0
MD	Baltimore City		12	New	0	0	0	0	0	0
MD	Baltimore City		13	New	0	0	0	0	0	0
MD	Baltimore City		14	New	0	0	0	0	0	0
MD	Harford		16	Existing	0	0	0	0	0	0
MD	Harford		17	Existing	0	0	0	0	0	0
MD	Cecil		22	Existing	0	0	0	0	0	0
MD	Cecil		23	New	0	0	0	0	0	0
DE	New Castle	Delaware Bay / Delaware River	24	Existing	Yes	Yes	Yes	Yes	Yes	Yes
DE	New Castle	Delaware Bay / Delaware River	25	Existing	Yes	Yes	Yes	Yes	Yes	Yes
DE	New Castle	Delaware Bay / Delaware River	26	New	Yes	Yes	Yes	Yes	Yes	Yes
DE	New Castle	Delaware Bay / Delaware River	27	Existing	Yes	Yes	Yes	Yes	Yes	Yes
DE	New Castle	Delaware Bay / Delaware River	28	New	Yes	Yes	Yes	Yes	Yes	Yes
DE	New Castle	Delaware Bay / Delaware River	29	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Delaware	Delaware Bay / Delaware River	30	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Delaware	Delaware Bay / Delaware River	31	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Delaware	Delaware Bay / Delaware River	32	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Delaware	Delaware Bay / Delaware River	33	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Delaware	Delaware Bay / Delaware River	34	New	Yes	Yes	Yes	Yes	Yes	Yes
PA	Delaware		35	Existing	0	0	0	0	0	0
PA	Delaware		36	Existing	0	0	0	0	0	0
PA	Delaware		37	Existing	0	0	0	0	0	0
PA	Delaware		38	Existing	0	0	0	0	0	0
PA	Delaware		39	Existing	0	0	0	0	0	0
PA	Delaware		40	Existing	0	0	0	0	0	0
PA	Delaware		41	Existing	0	0	0	0	0	0
PA	Delaware		42	Existing	0	0	0	0	0	0
PA	Delaware		43	Existing	0	0	0	0	0	0
PA	Philadelphia	Delaware Bay / Delaware River	44	Existing	0	Yes	Yes	Yes	Yes	Yes
PA	Philadelphia		45	Existing	0	0	0	0	0	0
PA	Philadelphia		46	Existing	0	0	0	0	0	0
PA	Philadelphia		47	Existing	0	0	0	0	0	0
PA	Philadelphia		48	Existing	0	0	0	0	0	0
PA	Philadelphia	Delaware Bay / Delaware River	49	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Philadelphia	Delaware Bay / Delaware River	50	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Philadelphia	Delaware Bay / Delaware River	51	Existing	0	0	Yes	Yes	Yes	Yes
PA	Philadelphia	Delaware Bay / Delaware River	52	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Bucks	Delaware Bay / Delaware River	53	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Bucks	Delaware Bay / Delaware River	54	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Bucks	Delaware Bay / Delaware River	55	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Bucks	Delaware Bay / Delaware River	56	Existing	Yes	Yes	Yes	Yes	Yes	Yes
PA	Bucks	Delaware Bay / Delaware River	57	Existing	Yes	Yes	Yes	Yes	Yes	Yes

*Potential impacts of less than 0.5 acres.

Geography		Resource	Station ID	Station Type	Coastal Zone					
					Stations (Occurrences)					
							Alternative 3			
State	County				Alternative 1	Alternative 2	via CC and PVD (3.1)	via LI and PVD (3.2)	via LI and WOR (3.3)	via CC and WOR (3.4)
NJ	Mercer		58	Existing	0	0	0	0	0	0
NJ	Mercer		60	Existing	0	0	0	0	0	0
NJ	Mercer		61	Existing	0	0	0	0	0	0
NJ	Middlesex		62	New	0	0	0	0	0	0
NJ	Middlesex		63	Existing	0	0	0	0	0	0
NJ	Middlesex		64	Existing	0	0	0	0	0	0
NJ	Middlesex		65	Existing	0	0	0	0	0	0
NJ	Middlesex		66	Existing	0	0	0	0	0	0
NJ	Middlesex		67	Existing	0	0	0	0	0	0
NJ	Middlesex		68	New	0	0	0	0	0	0
NJ	Union		69	Existing	0	0	0	0	0	0
NJ	Union		70	Existing	0	0	0	0	0	0
NJ	Union		71	Existing	0	0	0	0	0	0
NJ	Union		72	Existing	0	0	0	0	0	0
NJ	Essex	Newark Bay / Hackensack River	73	Existing	Yes	Yes	Yes	Yes	Yes	Yes
NJ	Essex	Newark Bay / Hackensack River	74	Existing	Yes	Yes	Yes	Yes	Yes	Yes
NJ	Essex	Newark Bay / Hackensack River	75	Existing	Yes	0	Yes	Yes	Yes	Yes
NJ	Hudson	Newark Bay / Hackensack River and Hudson River	76	Existing	Yes	Yes	Yes	Yes	Yes	Yes
NY	New York		77	Existing	0	0	0	0	0	0
NY	New York		9993	Existing	0	0	0	0	0	0
NY	Queens		144	Existing	0	0	0	0	0	0
NY	Queens		145	New	0	0	0	0	0	0
NY	Bronx		78	New	0	0	0	0	0	0
NY	Bronx		79	New	0	0	0	0	0	0
NY	Bronx	Long Island Sound	80	New	0	Yes	Yes	0	0	Yes
NY	Bronx	Long Island Sound	81	New	Yes	Yes	Yes	0	0	Yes
NY	Westchester	Long Island Sound	82	Existing	Yes	0	0	0	0	0
NY	Westchester	Long Island Sound	83	Existing	Yes	Yes	Yes	0	0	Yes
NY	Westchester	Long Island Sound	84	Existing	Yes	Yes	Yes	0	0	Yes
NY	Westchester		85	Existing	0	0	0	0	0	0
NY	Westchester		86	Existing	0	0	0	0	0	0
NY	Westchester		87	New	0	0	0	0	0	0
NY	Westchester		88	Existing	0	0	0	0	0	0
NY	Westchester		151	New	0	0	0	0	0	0
NY	Putnam		153	Existing	0	0	0	0	0	0
NY	Nassau		146	New	0	0	0	0	0	0
NY	Suffolk		148	New	0	0	0	0	0	0
NY	Suffolk		149	Existing	0	0	0	0	0	0
CT	Fairfield	Long Island Sound	89	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	90	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	91	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	92	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	93	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	94	New	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	95	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	96	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	97	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	98	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	99	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	100	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	101	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	102	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	103	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	104	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	105	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	107	New	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield	Long Island Sound	108	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Fairfield		154	New	0	0	0	0	0	0

*Potential impacts of less than 0.5 acres.

Geography		Resource	Station ID	Station Type	Coastal Zone					
					Stations (Occurrences)					
							Alternative 3			
State	County				Alternative 1	Alternative 2	via CC and PVD (3.1)	via LI and PVD (3.2)	via LI and WOR (3.3)	via CC and WOR (3.4)
CT	New Haven	Long Island Sound	109	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	New Haven	Long Island Sound	110	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	New Haven	Long Island Sound	111	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	New Haven	Long Island Sound	112	New	0	Yes	Yes	Yes	Yes	Yes
CT	New Haven	Long Island Sound	113	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	New Haven		156	New	0	0	0	0	0	0
CT	New Haven	Long Island Sound	114	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	New Haven	Long Island Sound	115	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	New Haven	Long Island Sound	116	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	New Haven		155	New	0	0	0	0	0	0
CT	Middlesex	Long Island Sound	117	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Middlesex	Long Island Sound	118	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Middlesex	Long Island Sound	119	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Middlesex	Long Island Sound	120	New	Yes	Yes	Yes	Yes	Yes	Yes
CT	New London	Long Island Sound	121	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	New London	Long Island Sound	124	New	Yes	0	0	0	0	0
CT	New London	Long Island Sound	122	Existing	Yes	Yes	Yes	Yes	Yes	Yes
CT	Hartford		160	New	0	0	0	0	0	0
CT	Hartford		160	Existing	0	0	0	0	0	0
CT	Hartford		161	New	0	0	0	0	0	0
CT	Hartford		164	New	0	0	0	0	0	0
CT	Tolland		165	New	0	0	0	0	0	0
CT	Tolland		166	New	0	0	0	0	0	0
RI	Washington		123	Existing	0	0	0	0	0	0
RI	Washington		125	Existing	0	0	0	0	0	0
RI	Washington		126	Existing	0	0	0	0	0	0
RI	Kent		127	Existing	0	0	0	0	0	0
RI	Providence		128	Existing	0	0	0	0	0	0
RI	Providence		129	New	0	0	0	0	0	0
RI	Providence		130	New	0	0	0	0	0	0
MA	Bristol		131	Existing	0	0	0	0	0	0
MA	Bristol		132	Existing	0	0	0	0	0	0
MA	Bristol		133	Existing	0	0	0	0	0	0
MA	Worcester		172	Existing	0	0	0	0	0	0
MA	Worcester		173	New	0	0	0	0	0	0
MA	Worcester		174	New	0	0	0	0	0	0
MA	Worcester		175	New	0	0	0	0	0	0
MA	Middlesex		176	New	0	0	0	0	0	0
MA	Middlesex		178	New	0	0	0	0	0	0
MA	Middlesex		181	New	0	0	0	0	0	0
MA	Suffolk		182	New	0	0	0	0	0	0
MA	Norfolk		134	Existing	0	0	0	0	0	0
MA	Norfolk		135	Existing	0	0	0	0	0	0
MA	Norfolk		136	Existing	0	0	0	0	0	0
MA	Suffolk		137	Existing	0	0	0	0	0	0
MA	Suffolk		138	Existing	0	0	0	0	0	0
MA	Suffolk		139	Existing	0	0	0	0	0	0
MA	Suffolk		140	Existing	0	0	0	0	0	0
MA	Suffolk		141	Existing	0	0	0	0	0	0
MA	Suffolk		142	New	0	0	0	0	0	0
MA	Suffolk	Boston Harbor	143	Existing	Yes	Yes	Yes	Yes	Yes	Yes
Grand Total					61	61	63	59	59	63

*Potential impacts of less than 0.5 acres.

Data Matrices – Saltwater Wetlands

Geography		Saltwater Wetlands													
		Environmental Consequences (Acres)													
State	County	Existing NEC		Alternative 1		Alternative 2		Alternative 3							
								via CC and PVD (3.1)		via LI and PVD (3.2)		via LI and WOR (3.3)		via CC and WOR (3.4)	
		EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW
DC	District of Columbia	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Prince George's	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Anne Arundel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Howard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore County	9	0	9	0	9	0	9	0	9	0	9	0	9	0
MD	Baltimore City	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Harford	18	0	18	0	19	0	24	5	24	5	24	5	24	5
MD	Cecil	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DE	New Castle	1	1	1	1	7	16	13	24	13	24	13	24	13	24
PA	Delaware	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA	Montgomery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA	Bucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Gloucester	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Camden	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Burlington	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Mercer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Middlesex	2	0	2	0	4	0	6	0	6	0	6	0	6	0
NJ	Somerset	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Union	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Essex	0	0	0	0	0	0	1	0	1	0	1	0	1	0
NJ	Bergen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Hudson	16	10	26	15	27	15	68	39	68	39	68	39	68	39
NY	New York	17	0	24	0	33	0	55	0	55	0	55	0	55	0
NY	Richmond	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY	Queens	1	0	1	0	6	0	6	0	11	0	11	0	6	0
NY	Kings	0	0	0	0	2	0	2	0	4	0	4	0	2	0
NY	Bronx	4	*	4	*	6	*	13	1	4	0	4	0	13	1
NY	Westchester	0	0	0	0	1	0	0	0	0	0	0	0	0	0
NY	Putnam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY	Nassau	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY	Suffolk	0	0	0	0	0	0	0	0	140	3	140	3	0	0
CT	Fairfield	10	2	14	2	19	2	14	2	106	2	106	2	14	2
CT	Litchfield	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	5	19	5	19	7	25	5	19	101	38	101	38	5	19
CT	Hartford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	Tolland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	Windham	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	Middlesex	4	10	10	12	4	10	4	10	4	10	4	10	4	10
CT	New London	46	25	61	26	46	25	46	25	46	25	46	25	46	25
RI	Washington	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RI	Kent	1	1	1	1	1	1	1	1	1	1	0	0	1	1
RI	Providence	0	0	0	0	9	0	16	0	16	0	1	1	0	0
MA	Hampden	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Worcester	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Middlesex	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Bristol	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Norfolk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	1	0	1	0	1	0	3	0	3	0	3	0	3	0
DC	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Total	27	0	27	0	28	0	33	5	33	5	33	5	33	5
DE	Total	1	1	1	1	7	16	13	24	13	24	13	24	13	24
PA	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Total	18	10	29	15	31	15	75	39	75	39	75	39	75	39
NY	Total	23	0	30	0	48	0	75	1	214	3	214	3	75	1
CT	Total	66	55	91	58	76	61	70	55	257	74	257	74	70	55
RI	Total	1	1	1	1	10	1	16	1	16	1	1	1	1	1
MA	Total	1	0	1	0	1	0	3	0	3	0	3	0	3	0
Grand Total		136	68	178	75	202	94	285	125	611	146	595	146	269	125
		204		254		296		410		757		742		394	

*Potential impacts of less than 0.5 acres.

Geography		Saltwater Wetlands Affected Environment (Acres)													
State	County	Existing NEC		Alternative 1		Alternative 2		Alternative 3 via CC and PVD (3.1)		Alternative 3 via LI and PVD (3.2)		Alternative 3 via LI and WOR (3.3)		Alternative 3 via CC and WOR (3.4)	
		EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW
DC	District of Columbia	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Prince George's	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Anne Arundel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Howard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore County	160	72	160	72	160	72	170	81	170	81	170	81	170	81
MD	Baltimore City	0	0	0	0	0	0	1	0	1	0	1	0	1	0
MD	Harford	308	33	308	33	308	33	399	108	399	108	399	108	399	108
MD	Cecil	93	19	93	19	93	19	93	19	93	19	93	19	93	19
DE	New Castle	447	118	447	118	552	273	521	228	521	228	521	228	521	228
PA	Delaware	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA	Montgomery	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA	Bucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Salem	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Gloucester	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Camden	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Burlington	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Mercer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Middlesex	27	0	27	0	29	0	29	0	29	0	29	0	29	0
NJ	Somerset	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Union	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Essex	37	0	37	0	38	0	38	0	38	0	38	0	38	0
NJ	Bergen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Hudson	323	360	367	379	369	319	468	379	468	379	468	379	468	379
NY	New York	257	0	281	0	340	0	491	0	357	0	357	0	491	0
NY	Richmond	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY	Queens	24	0	24	0	49	0	50	0	70	0	70	0	50	0
NY	Kings	3	0	0	0	17	0	17	0	38	0	38	0	17	0
NY	Bronx	124	40	124	40	125	40	128	41	124	40	124	40	128	41
NY	Westchester	10	0	10	0	23	0	10	0	10	0	10	0	10	0
NY	Putnam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY	Nassau	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NY	Suffolk	0	0	0	0	0	0	0	0	1,864	29	1,864	29	0	0
CT	Fairfield	223	134	255	137	321	141	255	137	1,473	137	1,473	137	255	137
CT	Litchfield	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	191	665	191	665	218	754	191	665	1,432	896	1,432	896	191	665
CT	Hartford	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	Tolland	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	Windham	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	Middlesex	98	328	129	330	98	328	98	328	98	328	98	328	98	328
CT	New London	1,511	488	1,621	509	1,511	488	1,511	488	1,511	488	1,511	488	1,511	488
RI	Washington	9	6	0	0	9	6	9	6	9	6	9	6	9	6
RI	Kent	250	31	250	31	250	31	250	31	250	31	250	31	250	31
RI	Providence	2	0	0	0	134	0	134	0	134	0	2	0	2	0
MA	Hampden	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Worcester	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Middlesex	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Bristol	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Norfolk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	38	1	38	0	38	1	40	1	40	1	38	1	38	1
DC	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MD	Total	561	123	561	124	561	124	663	208	663	208	663	208	663	208
DE	Total	447	118	447	118	552	273	521	228	521	228	521	228	521	228
PA	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Total	387	360	431	379	436	319	535	379	535	379	535	379	535	379
NY	Total	418	40	439	40	554	40	696	41	2,462	69	2,462	69	696	41
CT	Total	2,023	1,615	2,196	1,640	2,148	1,711	2,055	1,618	4,514	1,848	4,514	1,848	2,055	1,618
RI	Total	261	37	250	31	393	37	393	37	393	37	261	37	261	37
MA	Total	38	1	38	0	38	1	40	1	40	1	38	1	38	1
Grand Total		4,135	2,294	4,363	2,332	4,683	2,505	4,904	2,511	9,129	2,770	8,995	2,770	4,770	2,511
		6,429		6,695		7,188		7,415		11,899		11,765		7,281	

*Potential impacts of less than 0.5 acres.

Geography		Station ID	Station Type	Saltwater Wetlands											
				Stations (Acres)											
State	County			Alternative 1		Alternative 2		Alternative 3							
								via CC and PVD (3.1)		via LI and PVD (3.2)		via LI and WOR (3.3)		via CC and WOR (3.4)	
				EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW
DC	District of Columbia	1	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Prince George's	2	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Prince George's	3	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Prince George's	4	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Anne Arundel	5	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Anne Arundel	6	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Anne Arundel	6	New	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore County	7	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore County	15	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore City	8	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore City	9	New	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore City	10	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore City	11	New	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore City	12	New	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore City	13	New	0	0	0	0	0	0	0	0	0	0	0	0
MD	Baltimore City	14	New	0	0	0	0	0	0	0	0	0	0	0	0
MD	Harford	16	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Harford	17	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Cecil	22	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MD	Cecil	23	New	0	0	0	0	0	0	0	0	0	0	0	0
DE	New Castle	24	Existing	0	0	0	0	0	0	0	0	0	0	0	0
DE	New Castle	25	Existing	0	0	0	0	0	0	0	0	0	0	0	0
DE	New Castle	26	New	0	0	0	0	0	0	0	0	0	0	0	0
DE	New Castle	27	Existing	0	0	0	0	0	0	0	0	0	0	0	0
DE	New Castle	28	New	0	0	0	0	0	0	0	0	0	0	0	0
DE	New Castle	29	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	30	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	31	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	32	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	33	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	34	New	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	35	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	36	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	37	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	38	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	39	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	40	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	41	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	42	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Delaware	43	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	44	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	45	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	46	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	47	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	48	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	49	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	50	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	51	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Philadelphia	52	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Bucks	53	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Bucks	54	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Bucks	55	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Bucks	56	Existing	0	0	0	0	0	0	0	0	0	0	0	0
PA	Bucks	57	Existing	0	0	0	0	0	0	0	0	0	0	0	0

*Potential impacts of less than 0.5 acres.

Geography		Station ID	Station Type	Saltwater Wetlands											
				Stations (Acres)											
State	County			Alternative 1		Alternative 2		Alternative 3							
								via CC and PVD (3.1)		via LI and PVD (3.2)		via LI and WOR (3.3)		via CC and WOR (3.4)	
				EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW
NJ	Mercer	58	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Mercer	60	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Mercer	61	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Middlesex	62	New	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Middlesex	63	0.0	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Middlesex	64	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Middlesex	65	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Middlesex	66	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Middlesex	67	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Middlesex	68	New	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Union	69	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Union	70	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Union	71	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Union	72	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Essex	73	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NJ	Essex	74	Existing	1	0	1	0	0	0	1	0	1	0	0	0
NJ	Essex	75	Existing	0	0	0	0	0	0	1	0	1	0	0	0
NJ	Hudson	76	Existing	3	20	3	20	0	0	3	20	3	20	0	0
NY	New York	77	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	New York	9993	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	Queens	144	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	Queens	145	New	0	0	0	0	0	0	0	0	0	0	0	0
NY	Bronx	78	New	0	0	0	0	0	0	0	0	0	0	0	0
NY	Bronx	79	New	0	0	0	0	0	0	0	0	0	0	0	0
NY	Bronx	80	New	0	0	0	0	0	0	0	0	0	0	0	0
NY	Bronx	81	New	1	3	1	3	1	3	1	3	1	3	1	3
NY	Westchester	82	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	Westchester	83	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	Westchester	84	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	Westchester	85	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	Westchester	86	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	Westchester	87	New	0	0	0	0	0	0	0	0	0	0	0	0
NY	Westchester	88	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	Westchester	151	New	0	0	0	0	0	0	0	0	0	0	0	0
NY	Putnam	153	Existing	0	0	0	0	0	0	0	0	0	0	0	0
NY	Nassau	146	New	0	0	0	0	0	0	0	0	0	0	0	0
NY	Suffolk	148	New	0	0	0	0	0	0	0	0	0	0	0	0
NY	Suffolk	149	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	89	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	90	Existing	0	*	0	*	0	*	0	*	0	*	0	*
CT	Fairfield	91	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	92	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	93	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	94	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	95	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	96	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	97	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	98	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	99	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	100	Existing	0	1	0	1	0	1	0	1	0	1	0	1
CT	Fairfield	101	Existing	0	3	0	3	0	3	0	3	0	3	0	3
CT	Fairfield	102	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	103	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	104	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	105	Existing	15	0	15	0	0	15	15	0	15	0	0	15
CT	Fairfield	107	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	108	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Fairfield	154	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	109	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	110	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	111	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	112	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	113	Existing	0	0	0	0	0	0	0	0	0	0	0	0

*Potential impacts of less than 0.5 acres.

Geography		Station ID	Station Type	Saltwater Wetlands											
				Stations (Acres)											
State	County			Alternative 1		Alternative 2		Alternative 3							
								via CC and PVD (3.1)		via LI and PVD (3.2)		via LI and WOR (3.3)		via CC and WOR (3.4)	
				EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW	EMD	EMW
CT	New Haven	156	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	114	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	115	Existing	0	2	0	2	0	2	0	2	0	2	0	2
CT	New Haven	116	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	New Haven	155	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	Middlesex	117	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Middlesex	118	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Middlesex	119	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Middlesex	120	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	New London	121	Existing	0	0	5	0	5	0	5	0	5	0	5	0
CT	New London	124	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	New London	122	Existing	0	0	3	2	3	2	3	2	3	2	3	2
CT	Hartford	160	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	Hartford	160	Existing	0	0	0	0	0	0	0	0	0	0	0	0
CT	Hartford	161	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	Hartford	164	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	Tolland	165	New	0	0	0	0	0	0	0	0	0	0	0	0
CT	Tolland	166	New	0	0	0	0	0	0	0	0	0	0	0	0
RI	Washington	123	Existing	0	0	0	0	0	0	0	0	0	0	0	0
RI	Washington	125	Existing	0	0	0	0	0	0	0	0	0	0	0	0
RI	Washington	126	Existing	0	0	0	0	0	0	0	0	0	0	0	0
RI	Kent	127	Existing	0	0	0	0	0	0	0	0	0	0	0	0
RI	Providence	128	Existing	0	0	0	0	0	0	0	0	0	0	0	0
RI	Providence	129	New	0	0	1	0	0	0	1	0	1	0	0	0
RI	Providence	130	New	0	0	0	0	0	0	0	0	0	0	0	0
MA	Bristol	131	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Bristol	132	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Bristol	133	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Worcester	172	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Worcester	173	New	0	0	0	0	0	0	0	0	0	0	0	0
MA	Worcester	174	New	0	0	0	0	0	0	0	0	0	0	0	0
MA	Worcester	175	New	0	0	0	0	0	0	0	0	0	0	0	0
MA	Middlesex	176	New	0	0	0	0	0	0	0	0	0	0	0	0
MA	Middlesex	178	New	0	0	0	0	0	0	0	0	0	0	0	0
MA	Middlesex	181	New	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	182	New	0	0	0	0	0	0	0	0	0	0	0	0
MA	Norfolk	134	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Norfolk	135	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Norfolk	136	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	137	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	138	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	139	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	140	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	141	Existing	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	142	New	0	0	0	0	0	0	0	0	0	0	0	0
MA	Suffolk	143	Existing	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total				21	29	30	30	10	26	31	30	31	30	10	26
				50		60		36		61		61		36	

*Potential impacts of less than 0.5 acres.