



February 23, 2024

New Jersey Department of Environmental Protection
Division of Land Use Regulation
Attn: Application Support
501 East State Street
Station Plaza 5, 2nd Floor
Trenton, New Jersey 08609

**RE: New Jersey Department of Environmental Protection Waterfront Development
Individual Permit – Application
Atlantic Shores Offshore Wind – Monmouth Export Cable Corridor Geotechnical
Investigation Project**

Dear Application Support:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five (5) sampling locations within the Geotech Area in the Atlantic Ocean in New Jersey State waters off the coast of the Borough of Sea Girt and Borough of Manasquan, Monmouth County, New Jersey.

On behalf of Atlantic Shores, Environmental Design & Research (EDR) respectfully submits this permit application for a Waterfront Development Individual Permit for up to five boring sample locations with a maximum 6-inch radius. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. The soil sampling (boring) locations, which will be drilled to a depth of 150 feet, will obtain approximately 30 samples per location. Approximately 150 samples will be obtained in total from the five (5) sampling locations.

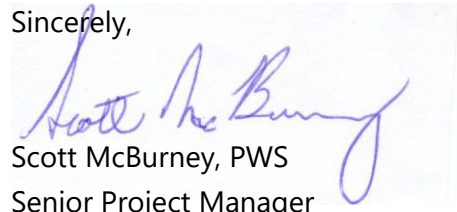
This application includes the following documents:

1. Completed and signed Land Use Regulation Application form.
2. Compliance statement demonstrating policies in N.J.A.C. 7:7-6.23(a) 1 through 6, N.J.A.C. 7:7-9.2, N.J.A.C. 7:7-9.3, N.J.A.C. 7:7-9.5, N.J.A.C. 7:7-9.7, N.J.A.C. 7:7-9.12, and N.J.A.C. 7:7-9.36 are satisfied.
3. Property Owner Certification Form.
4. Public Notice Form.
5. Proof of Public Notification.
 - a. Newspaper ad.
 - b. Local government officials' notification.

- c. Municipal Clerk notification of application copy.
- 6. Site plans/reference mapping and figures.

Should you have any questions, please do not hesitate to contact me at 833.337.0010 ex. 427 or smcburney@edrdpc.com.

Sincerely,



Scott McBurney, PWS
Senior Project Manager

Cc: Jennifer Daniels (Atlantic Shores)
Stephanie Wilson (Atlantic Shores)
Megan Hayes (Atlantic Shores)



State of New Jersey
Department of Environmental Protection
Division of Land Resource Protection
Application Form for Permit(s)/Authorization(s)
501 E. State Street Mail Code 501-02A P.O. Box 420
Trenton, NJ 08625-0420
Phone #: (609) 777-0454 Web: www.nj.gov/dep/landuse



Please print legibly or type the following: Complete all sections and pages unless otherwise noted.

Initial Application ☒

Response to DLUR Deficiency ☐

Extension / Modification ☐

Is this project a NJDOT Priority 2 Repair Project? Yes ☐ No ☒

1. **Applicant Name:** Mr./Ms./Mrs. Jennifer Daniels, Development Director, Atlantic Shores Offshore Wind, LLC E-Mail: Jennifer.Daniels@atlanticshoreswind.com
 Address: 1 Dock 72, Floor 7 Daytime Phone: (781) 964-4293 Ext. _____
 City/State: Brooklyn, NY Zip Code 11205 Cell Phone: _____
2. **Agent Name:** Mr./Ms./Mrs. Scott McBurney E-Mail: smcburney@edrdpc.com
 Firm Name: Environmental Design & Research D.P.C. Daytime Phone: (267) 476-9500 Ext. _____
 Address: 34 Northeast Drive, Suite 1B Zip Code 17033 Cell Phone: (267) 476-9500
 City/State: Hershey, PA
3. **Property Owner:** Mr./Ms./Mrs. _____ E-mail: _____
 Address: _____ Daytime Phone: _____ Ext. _____
 City/State: _____ Zip Code _____ Cell Phone: _____
4. **Project Name:** Monmouth Export Cable Corridor Geotechnical Investigation Project Address/Location: N/A - Atlantic Ocean
 Municipality: Sea Girt and Manasquan County: Monmouth Zip Code 08760, 08736
 Block(s): N/A - Atlantic Ocean Lot(s): N/A - Atlantic Ocean
 N.A.D. 1983 State Plane Coordinates (feet) E(x): _____ N(y): _____ **Not Longitude/Latitude**
 Watershed: Atlantic Coast (Whale Pond to Manasquan) Subwatershed: Atlantic Coast (Shark River to Manasquan)
 Nearest Waterway: Atlantic Ocean
5. **Project Description:** The purpose of this investigation and Waterfront Development Individual Permit application is to collect specific geotechnical information in the Geotech Area identified on the Site Plan (Figure 1) to determine the substrate suitability to support trenching, export cable installation, and a horizontal directional drill (HDD) crossing from the Atlantic Ocean to an upland location landward of the beach in Sea Girt, New Jersey.

Provide if applicable: Previous LUR File # (s): _____ Waiver request ID # (s): _____

A. SIGNATURE OF APPLICANT (required):

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment. If the applicant is an organization such as a corporation, municipal entity, home-owners association etc., the party responsible for the application shall sign on behalf of the organization.

DocuSigned by:

Jennifer Daniels
 Signature of Applicant

Development Director

Position/Title (If not individual property owner)

2/14/2024

Date

Jennifer Daniels, Atlantic Shores Offshore Wind, LLC

Print Name

Signature of Applicant

Position/Title (If not individual property owner)

Date

Print Name

A. PROPERTY OWNER'S CERTIFICATION

I hereby certify that the undersigned is the **owner of the property** upon which the proposed work is to be done. This endorsement is certification that the owner/easement holder grants permission for the conduct of the proposed activity. In addition, written consent is hereby given to allow access to the site by representatives or agents of the Department for the purpose of conducting a site inspection(s) or survey(s) of the property in question.

In addition, the undersigned property owner hereby certifies:

1. Whether any work is to be done within an easement? Yes ☐ No ☒
(If answer is "Yes" – Signature/title of responsible party is required below)
2. Whether any part of the entire project will be located within property belonging to the State of New Jersey? Yes ☒ No ☐
3. Whether any work is to be done on any property owned by any public agency that would be encumbered by Green Acres? Yes ☐ No ☒
4. Whether this project requires a Section 106 (National Register of Historic Places) Determination as part of a federal approval? Yes ☐ No ☒

DocuSigned by:

 Signature of Owner
 2/14/2024

 Date
 Jennifer Daniels, Development Director, Atlantic Shores Offshore Wind, LLC

 Print Name/Title

 Signature of Owner/Easement Holder

 Date

 Print Name/Title

B. APPLICANT'S AGENT

I, Jennifer Daniels, Development Director, Atlantic Shores Offshore Wind, LLC, the Applicant/Owner and _____, co-Applicant/Owner authorize to act as my agent/representative in all matters pertaining to my application the following person:

Scott McBurney, PWS

 Name of Agent
Senior Project Manager/Wetland Service Leader

 Occupation/Profession of Agent

DocuSigned by:

 Signature of Applicant/Owner

 Signature of co-Applicant/Owner

AGENT'S CERTIFICATION:

I agree to serve as agent for the above-referenced applicant:



 Signature of Agent

Environmental Design & Research (EDR)

 Name of Firm

C. STATEMENT OF PREPARER OF PLANS, SPECIFICATIONS, SURVEYOR'S OR ENGINEER'S REPORT

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

 Signature

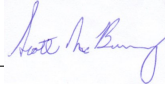
 Print Name

 Position & Name of Firm

 Professional License # _____ Date _____

D. STATEMENT OF PREPARER OF APPLICATION, REPORTS AND/OR SUPPORTING DOCUMENTS (other than engineering)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.



 Signature
Scott McBurney, PWS

 Print Name
Senior Project Manager, EDR

 Position & Name of Firm
N/A

 Professional License # _____ Date _____



Effective October 5, 2021, applications for most land use authorizations and permits **must** be submitted electronically through [NJDEP Online](https://www.nj.gov/dep/landuse/eservices/lur_auth_permits.html). Such applications include general permits, individual permits, water quality certificates, freshwater wetland transition area waivers, and associated flood hazard area verifications. Paper applications will **NOT** be accepted for the aforementioned types of authorizations and permits.

Paper applications **will be** accepted for Letters of Interpretations, modifications to existing permits/authorizations, extension requests for existing permits/authorizations, applicability determinations, Highlands Area applications, stand-alone Flood Hazard Verifications, and consistency determinations. If an application type is not listed on this form and you are unsure if a paper application is acceptable please contact the Division at <https://www.nj.gov/dep/landuse/contact.html>. For more information, please visit https://www.nj.gov/dep/landuse/eservices/lur_auth_permits.html.

FEE CALCULATION TIPS:

- Whenever the calculation requires an acreage figure (including the Stormwater calculations), you will need to round **UP** to the nearest whole number, for example: 0.25 acres gets rounded up to one (1) acre or 2.61 acres gets rounded up to three (3) acres.
- The stormwater review fee is applied only one time per project, maximum of \$20,000, regardless of multiple applications.

APPLICATION(S) FOR: Please check each permit/authorization that you are applying for and fill in the calculated fee (for each) in the "Fee Paid" column

	Coastal Applications	Fee Amount	Fee Paid
<input type="checkbox"/>	Modification of a Coastal GP	\$500	
<input type="checkbox"/>	Minor Technical Modification of a Coastal Wetland Permit	\$500 x _____ # of items to be revised	
<input type="checkbox"/>	Minor Technical Modification of a CAFRA IP	\$500 x _____ # of items to be revised	
<input type="checkbox"/>	Minor Technical Modification of a Waterfront IP	\$500 x _____ # of items to be revised	
<input type="checkbox"/>	Major Technical Modification of a Coastal Wetland Permit	0.30 x _____ original fee = Fee (Minimum \$500)	
<input type="checkbox"/>	Major Technical Modification of a CAFRA IP	0.30 x _____ original fee = Fee (Minimum \$500)	
<input type="checkbox"/>	Major Technical Modification of a Waterfront IP	0.30 x _____ original fee = Fee (Minimum \$500)	
<input type="checkbox"/>	Zane Letter (Waterfront Development Exemption)	\$500	
<input type="checkbox"/>	CAFRA Exemption Request	\$500	
<input type="checkbox"/>	CZM General Permit Extension	\$240 x _____ # of GPs to be extended	
<input type="checkbox"/>	Waterfront Development Individual Permit – Extension (Waterward of MHWL)	0.25 x _____ original fee = Fee (Maximum \$3,000)	
<input type="checkbox"/>	Meadowlands District Water Quality Certificate	\$5,000 + (\$2,500 x _____ # acres regulated area disturbed)	
<input type="checkbox"/>	Individual Permit Equivalency/CERCLA	No Fee	

	Consistency Determination	Fee Amount	Fee Paid
<input type="checkbox"/>	Water Quality Certificate (NOTE: No fee required under the coastal program when reviewed in conjunction with a WFD permit)	\$5,000 + (\$2,500 x _____ # acres regulated area disturbed)	
<input type="checkbox"/>	Federal Consistency	No Fee	

	Applicability Determinations	Fee Amount	Fee Paid
<input type="checkbox"/>	Coastal Applicability Determination	No Fee	No Fee
<input type="checkbox"/>	Flood Hazard Applicability Determination	No Fee	No Fee
<input type="checkbox"/>	Highlands Jurisdictional Determination	No Fee	No Fee
<input type="checkbox"/>	Executive Order 215	No Fee	No Fee

	Letter of Interpretation	Fee Amount	Fee Paid
<input type="checkbox"/>	LOI Presence Absence	\$1,000.00	
<input type="checkbox"/>	LOI Footprint of Disturbance (3 Maximum)	\$1,000.00 each	
<input type="checkbox"/>	LOI Delineation < 1.00 Acres	\$1,000.00	
<input type="checkbox"/>	LOI Verification	\$1,000 + (\$100 x _____ # of acres of the site)	
<input type="checkbox"/>	LOI Partial Site Verification	\$1,000 + (\$100 x _____ # of acres of the site subject to LOI)	
<input type="checkbox"/>	LOI Extension Presence/Absence, Footprint, Delineation < 1 acre (Re-Issuance)	\$500	
<input type="checkbox"/>	LOI Extension Line Verification (Re-Issuance)	0.50 x _____ original fee (Minimum \$500)	

	Freshwater Wetlands Authorizations	Fee Amount	Fee Paid
<input type="checkbox"/>	FWGP Administrative Modification	No fee	
<input type="checkbox"/>	FWGP Minor technical modification	\$500.00	
<input type="checkbox"/>	FWGP Major technical modification	\$500.00	
<input type="checkbox"/>	Individual Permit Administrative Modification	No Fee	
<input type="checkbox"/>	Individual Permit Minor Technical Modification	\$500.00	
<input type="checkbox"/>	Individual Permit Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
<input type="checkbox"/>	TAW Administrative Modification	No Fee	
<input type="checkbox"/>	TAW Minor Technical Modification	\$500.00	
<input type="checkbox"/>	TAW Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
<input type="checkbox"/>	FWGP Extension	\$500 x _____ # of items to be extended	
<input type="checkbox"/>	Individual Permit/Open Water Permit Extension	0.30 x _____ original fee (Minimum \$500)	
<input type="checkbox"/>	TAW Extension	\$500 x _____ # of items to be extended	
<input type="checkbox"/>	Freshwater Wetlands Exemption	\$500.00	
<input type="checkbox"/>	TAW Exemption	\$500.00	
<input type="checkbox"/>	Permit Equivalency/CERCLA	No Fee	

APPLICATION(S) FOR: Please check each permit/authorization that you are applying for and fill in the calculated fee (for each) in the "Fee Paid" column

	Flood Hazard Area Authorizations	Fee Amount	Fee Paid
<input type="checkbox"/>	FHA GP Administrative Modification	No Fee	No Fee
<input type="checkbox"/>	FHA GP Minor technical modification	\$500 x _____ # of project elements to be revised	
<input type="checkbox"/>	FHA GP Major technical modification	0.30 x _____ original fee (Minimum \$500)	
<input type="checkbox"/>	FHA Individual Permit Administrative Modification	No Fee	No Fee
<input type="checkbox"/>	FHA Individual Permit Minor Technical Modification	\$500 x _____ # of project elements to be revised	
<input type="checkbox"/>	FHA Individual Permit Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
<input type="checkbox"/>	FHA Verification Administrative Modification	No Fee	No Fee
<input type="checkbox"/>	FHA Verification Minor Technical Modification	\$500 x _____ # of project elements to be revised	
<input type="checkbox"/>	FHA Verification Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
<input type="checkbox"/>	FHA GP Extension	\$240	
<input type="checkbox"/>	FHA Individual Permit Extension	0.25 x _____ original fee	
<input type="checkbox"/>	FHA Verification Extension of Methods 1, 2, 3, 5, or Riparian Zone Only	\$240	
<input type="checkbox"/>	FHA Verification Extension of Methods 4 or 6	0.25 x _____ original fee	
<input type="checkbox"/>	FHA Individual Permit Equivalency/CERCLA	No Fee	No Fee

NOTE: Flood Hazard verifications may be submitted via a paper application **ONLY** when not submitted in conjunction with any permit/authorization required to be submitted electronically.

	Flood Hazard Area Verifications	Fee Amount	Fee Paid
<input type="checkbox"/>	Verification-Delineation of Riparian Zone Only	\$1,000	
<input type="checkbox"/>	Verification-Method 1 (DEP Delineation) *	\$1,000	
<input type="checkbox"/>	Verification-Method 2 (FEMA Tidal Method) *	\$1,000	
<input type="checkbox"/>	Verification-Method 3 (FEMA Fluvial Method) *	\$1,000	
<input type="checkbox"/>	Verification-Method 4 (FEMA Hydraulic Method)	\$4,000 + (\$400 x per 100 linear feet)	
<input type="checkbox"/>	Verification-Method 5 (Approximation Method) *	\$1,000	
<input type="checkbox"/>	Verification-Method 6 (Calculation Method)	\$4,000+(\$400 x per 100 linear feet)	

*Fee not applicable to (1) SFH

	Stormwater Review Fee (Maximum Fee = \$20,000)	Fee Amount	Fee Paid
<input type="checkbox"/>	Stormwater Review (Fee is calculated by adding the base fee to the specific elements below)	\$3,000 Base Fee	
	Review of Groundwater Calculations	+ \$250 x _____ # acres disturbed	
	Review of Runoff Quantity Calculations	+ \$250 x _____ # acres disturbed	
	Review of Water Quality Calculations	+ \$250 x _____ # acres impervious surface	
	Total	Stormwater Review Fee	

	Highlands Authorizations*	Fee Amount	Fee Paid
<input type="checkbox"/>	Pre-application Meeting	\$500.00	
<input type="checkbox"/>	Resource Area Determination Boundary Delineation < one acre	\$500.00	
<input type="checkbox"/>	Resource Area Footprint of Disturbance	\$500 + (\$50 x _____ # of acres of the site)	
<input type="checkbox"/>	Resource Area Determination Verification (> one acre)	\$750 + (\$100 x _____ # of acres of the site)	
<input type="checkbox"/>	Resource Area Determination Extension	0.25 x _____ original fee (Minimum \$250)	
<input type="checkbox"/>	Preservation Area Approval (PAA)		
<input type="checkbox"/>	PAA with Waiver (Specify type below)		
	Waiver Type:		
<input type="checkbox"/>	HPAAGP 1/ Habitat Creation/Enhance	No Fee	No Fee
<input type="checkbox"/>	HPAAGP 2 Bank Stabilization	\$500	
<input type="checkbox"/>	HPAA Extension	\$1,000	

*Highlands Applicability Determinations (HAD Exemptions) use a different form available at www.nj.gov/dep/landuse/forms.html

TOTAL FEE:	
CHECK NUMBER:	

APPLICANT NAME: Atlantic Shores Offshore Wind, LLC

FILE # (if known):

APPLICATION FORM - APPENDIX I

Section 1: Please provide the following information for the overall project site. All area measurements shall be recorded in acres to the nearest thousandth (0.001 acres).

<u>PROPOSED:</u>	<u>PRESERVED</u>	<u>UNDISTURBED</u>	<u>DISTURBED</u>
RIPARIAN ZONE	N/A	N/A	N/A
CZMRA FORESTED (CZMRA IP – Only)	N/A	N/A	N/A
E & THABITAT Endangered and/or Threatened	N/A	N/A	N/A
FRESHWATER WETLANDS	N/A	N/A	N/A

Section 2: Please provide the following information for each permit/authorization requested pursuant to the Freshwater Wetlands Protection Act. All area measurements shall be recorded in acres to the nearest thousandth (0.001 acres). Use additional sheets if necessary

PERMIT TYPE	Waterfront Development IP	WETLAND TYPE Emergent, Forest, Shrub, Etc.	N/A	RESOURCE CLASSIFICATION Ordinary, Intermediate, Exceptional, EPA, Etc.	Ocean
<u>PROPOSED DISTURBANCE:</u>		<u>WETLANDS</u>	<u>TRANSITION AREA</u>	<u>SOW</u>	
FILLED		N/A	N/A	N/A	
EXCAVATED		N/A	N/A	N/A	
CLEARED		N/A	N/A	N/A	
TEMPORARY DISTURBANCE		N/A	N/A	0.01 acre	

PERMIT TYPE		WETLAND TYPE Emergent, Forest, Shrub, Etc.		RESOURCE CLASSIFICATION Ordinary, Intermediate, Exceptional, EPA, Etc.	
<u>PROPOSED DISTURBANCE:</u>		<u>WETLANDS</u>	<u>TRANSITION AREA</u>	<u>SOW</u>	
FILLED					
EXCAVATED					
CLEARED					
TEMPORARY DISTURBANCE					

Waterfront Development Individual Permit Application

Monmouth Export Cable Corridor Geotechnical Investigation Project

Borough of Sea Girt and Borough of Manasquan, New Jersey

Prepared for:



Atlantic Shores Offshore Wind, LLC
Dock 72
Brooklyn, NY 11205

Prepared by:



Environmental Design & Research, D.P.C.
217 Montgomery Street, Suite 1100
Syracuse, New York 13202
www.edrdpc.com

February 2024

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1.0 PROJECT DESCRIPTION

Atlantic Shores Offshore Wind, LLC (Atlantic Shores), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as “EDF Offshore”) and Shell New Energies US LLC (“Shell New Energies”), is proposing to evaluate the substrate at five (5) sampling locations within the Geotech Area in the Atlantic Ocean in New Jersey State waters off the coast of the Borough of Sea Girt and Borough of Manasquan, Monmouth County, New Jersey (the “Project”). New Jersey State Waters are defined as those waters extending out from the shore 3 nautical miles (nm). Sampling is anticipated to start on April 1, 2024, with an estimated completion date of September 30, 2024.

The boreholes for the five (5) sampling locations within the Geotech Area will be drilled vertically using a combination of hollow stem auger and mud rotary sediment drilling techniques and will be conducted from a 20 x 45-foot barge, which will be pushed into location by a boat with GPS on board to accurately identify the correct boring location. The barge will be anchored in place by two spuds, which are approximately 24-inch in diameter and 38-feet in length and will be lowered approximately 2 to 4 feet into the mudline. The barge will remain in place until the boring and sampling have been completed and will then be advanced to the next sampling location. The use of spuds will allow the barge to move vertically with the tides. Each spud will be marked to track the vertical movement of the barge during sampling activities. The geotechnical rig will be track- or skid-mounted and utilized from the barge. In order to stabilize the boreholes, it is estimated that approximately 10 to 15 feet of hollow stem with a maximum 6-inch diameter and matching roller bit will be drilled first to provide surface casing. Casings will be advanced from the rig on the barge into the mudline. Borehole advancement below the hollow stem augers will utilize mud-rotary methods, with a borehole diameter of approximately 6-inches. Sediment sampling will be performed at 5-foot intervals using a combination of split-barrel Standard Penetration Test (SPT) sampling (ASTM D1586), 3-inch diameter thin-wall tube sampling (ASTM D1587) and split-barrel samples with 2.5-inch liners (ASTM D3550). The approximate maximum target depth of each of the five (5) sediment borings is 150-feet.

Approximately 150 samples will be obtained in total from the five (5) sampling locations.

1.1 Project Purpose

Atlantic Shores has identified the potential export cable approach to a landfall in the Borough of Sea Girt, Monmouth County, New Jersey. The purpose of this investigation and authorization under a Waterfront Development Individual Permit (N.J.A.C. 7:7-2.4) is to collect specific geotechnical information to inform the necessary engineering assessments that will determine the substrate suitability for trenching, export cable installation, and a horizontal directional drill (HDD) crossing from the Atlantic Ocean to an upland location landward of the beach in the Borough of Sea Girt, New Jersey. The need for an individual waterfront development permit was determined to be required for this project due to the proximity of mapped occupied habitat for State-listed marine reptiles (i.e. Atlantic leatherback [*Dermochelys coriacea*]).

2.0 POTENTIAL IMPACTS

The direct temporary impact area will be limited to the radius and depth of the boreholes and barge anchoring spuds with limited indirect impacts occurring as a result of sediment suspension during boring activities and subsequent settling which is not anticipated to extend a significant distance from the sampling location. It is assumed that the natural sediment movement from tides and wind, and subsequent currents, will quickly fill the boring locations to natural grade.

3.0 GENERAL PERMIT 23 – GEOTECHNICAL SURVEY BORING (N.J.A.C. 7:7 6.23) COMPLIANCE STATEMENTS

Although this application is for a Waterfront Development Individual Permit because of the proximity of mapped occupied habitat for State-listed marine reptiles, the applicable policies under subchapter 6, which covers general permits is applicable to the proposed project which includes surveying activities. A demonstration of compliance with these policies are provided in this section.

"This general permit authorizes geotechnical survey borings including survey borings or excavations constructed for the purpose of obtaining information on subsurface conditions, for the purpose of determining the presence or extent of contamination in subsurface soils or groundwater, and for obtaining seismic information, provided the following conditions are met."

N.J.A.C. 7:7-6.23(a)(1)

"Borings and related site disturbance shall not be located in shellfish habitat (N.J.A.C. 7:7- 9.2), submerged vegetation habitat (N.J.A.C. 7:7-9.6) or endangered or threatened wildlife or plant species habitats (N.J.A.C. 7:7-9.36)".

Borings and related site disturbance could occur within proximity to surf clam habitat. Project activities will be located within the nearshore environment of the Atlantic Ocean off the coast of the Boroughs of Sea Girt and Manasquan. Project activities are not located within proximity to mapped soft and/or hard clam habitat.

Given preliminary screening, these activities are primarily not anticipated to occur within any endangered/threatened wildlife or plant species habitat. The United States Fish & Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) was consulted to determine federally endangered/threatened wildlife/plant species or their habitat that could potentially occur within the Project Area.

The USFWS documented three federal listed species within proximity to the Project Area:

- Red knot (*Calidris canutus rufa*)
- Piping plover (*Charadrius melodus*)
- Roseate Tern (*Sterna dougallii dougallii*)

These three species and their associated habitat occur onshore along beachfronts, dunes, and estuarine habitats (i.e., tidal flats); however, the proposed borings will occur within the Atlantic Ocean. Therefore, the proposed sampling will not have any impact on suitable habitat for any of the three species identified in the IPaC.

Additionally, the Marine Landscape Project on the NJDEP GeoWeb Mapper was consulted to determine state endangered/threatened wildlife/plant species or their habitat that could potentially occur within the Project Area.

NJDEP documented six state listed species within proximity to the Project Area:

- Osprey (*Pandion haliaetus*)
- Fin whale (*Balaenoptera physalus*)
- Humpback whale (*Megaptera novaeangliae*)
- North Atlantic right whale (*Eubalaena glacialis*)
- Atlantic leatherback (*Dermochelys coriacea*)
- Least Tern (*Sternula antillarum*)

The two bird species (osprey and least tern) and their associated habitat include riparian corridors, wetlands, and estuarine and inland open water; however, the proposed borings will occur within the Atlantic Ocean, which is not suitable habitat for either of the two bird species.

As for the Atlantic leatherback, the habitat of this species consists of open marine water with nesting habitat primarily located in tropical latitudes around the world (NOAA, 2023a). The habitat for the three whale species (Fin whale, Humpback whale, and North Atlantic right whale) consists of deep, offshore waters and waters along the continental shelf (NOAA, 2023b; NOAA, 2023c; NOAA, 2023d). While proposed project activities would occur within State-listed marine reptile and mammal habitat, activities would not result in direct, adverse impacts to these species and/or their associated habitat. As detailed in Section 2.0, the direct temporary impact area will be limited to the radius and depth of the boreholes with limited indirect impacts occurring as a result of sediment suspension during boring activities and subsequent settling which is not anticipated to extend a significant distance from the sampling location. It is assumed that the natural sediment movement from tides and wind, and subsequent currents, will quickly fill the boring locations to natural grade.

Furthermore, in order to minimize impacts to offshore listed species (i.e., sea turtles), with the main goal of avoidance, Atlantic Shores has developed BMPs such as: training personnel in marine mammal spotting and identification, observation reporting protocols and vessel strike avoidance procedures; establishing marine mammal protection zones which would include an exclusion zone; utilizing National Oceanic and Atmospheric Administration (NOAA) Fisheries-approved protected species observers (PSOs); and using

acoustic monitoring during periods of inclement weather and/or low visibility. Therefore, the proposed borings will not have any impact on suitable habitat for any of the four listed species identified in the Marine Landscape Project.

Atlantic Shores does not anticipate impacts to any federal or state-listed species. As a result, the Project is considered consistent with the applicable policies listed in N.J.A.C. 7:7-6.23(a)(1).

N.J.A.C. 7:7-6.23(a)(2)

"Borings and related site disturbance shall comply with wild and scenic river corridors, (N.J.A.C. 7:7-9.44), wetlands (N.J.A.C. 7:7-9.27), and wetlands buffers (N.J.A.C. 7:7- 9.28)".

The borings are proposed to occur in the Atlantic Ocean, which is considered New Jersey State waters and Waters of the United States. Borings will not occur in wild and scenic river corridors, wetlands, or wetland buffers. Therefore, this policy is not applicable to the Project.

N.J.A.C. 7:7-6.23(a)(3)

"Borings for remedial investigation shall be permitted, constructed, and completed in accordance with the Well Construction and Maintenance; Sealing of Abandoned Well rules, N.J.A.C. 7:9D, and N.J.A.C. 7:26E-1.5(b) and 4 of the Technical Requirements for Site Remediation."

The proposed borings are for geotechnical purposes only, not remedial investigations; Therefore, this policy is not applicable to the Project.

N.J.A.C. 7:7-6.23(a)(4)

"Disturbance shall be limited to that which is necessary to access and conduct the geotechnical borings".

- i. *"Disturbance to vegetation shall be limited to a maximum width of five feet for access".*

The sediment boreholes for the Project will be advanced to a maximum of six (6) inches in (outer) diameter and up to 150 (45.7 m) deep. Direct disturbance will be limited to the diameter of the borings and barge anchoring spuds with negligible deposition occurring within a few feet of each sample location. No vegetation will be affected as a result of this investigation since it will occur entirely within Raritan Bay. Therefore, the Project is consistent with this policy.

N.J.A.C. 7:7-6.23(a)(5)

"Borings and related site disturbance shall not be conducted during the following time periods":

- i. *"During the migration of anadromous fish from April 1 thru June 30 (inclusive)";*

The proposed locations of the borings are in the Atlantic Ocean. Borings will be temporary and will not cause significant sediment loading in waters within the immediate vicinity of the sampling location. Sampling at each of the five respective locations will be temporary and will cause sediment loading in waters within the immediate vicinity of the sampling location; however, the sample itself will be completed in

minutes to hours so this sediment loading will be temporary and brief. After the sample has been collected, any suspended sediment is expected to settle out of the water column quickly. It is not anticipated that this geotechnical investigation will have any impact on the migration of anadromous fish due to the limited nature of Project activities.

- ii. *"During the period from March 1 thru June 30 and from October 1 thru November 30 (inclusive), within and adjacent to waters on the Delaware River System from the mouth of bay to Delaware Memorial Bridge and tidal Maurice River, identified as American shad migratory pathways;"*

The proposed location of the borings are not within or adjacent to waters on the Delaware River System from the mouth of bay to Delaware Bridge and tidal Maurice River; therefore, this timing restriction does not apply.

- iii. *"During the period from April 1 thru June 30 and from September 1 thru November 30 (inclusive), within and adjacent to waters on the Delaware River System from the Delaware Memorial Bridge to the New York State line and tidal portions of Rancocas and Raccoon Creeks, identified as American shad migratory pathways".*

The proposed location of the borings are not within or adjacent to waters of the Delaware River System from the Delaware Memorial Bridge to the New York State line and tidal portions of Rancocas and Raccoon Creeks; therefore, this timing restriction does not apply.

N.J.A.C. 7:7-6.23(a)(6)

"Bore holes shall be backfilled to the original surface level with appropriate, noncontaminated, soil material".

- i. *"Sand may not be used for backfilling in either freshwater or coastal wetlands. Restoration of all bore holes must maintain the hydrologic integrity of the wetlands. To avoid the potential for draining a wetland by puncturing a hard-pan or confining layer, all borings must be sealed with grout or bentonite in accordance with the Department's Water Monitoring Management Program rules, N.J.A.C. 7:9-6".*

This investigation will be conducted in the Atlantic Ocean; however, there will be no back-filing in either freshwater or coastal wetlands nor will there be any impact to the hydrologic integrity of wetlands due to the location within the open water bay. Draining will not occur and it is assumed that the natural sediment movement from tides and currents will quickly fill the boring to existing grade. Therefore, the Project is consistent with this policy.

- ii. *"Water used to flush a boring may be discharged to the ground provided the boring is not conducted in proximity to a stream or in an area of hazardous waste or acid producing soils. When the boring is performed in proximity to a stream, and water or drilling fluid is used to remove soil from the hole, the sediment-laden water shall not be allowed to flow overland such that it would enter the stream. Soil erosion and sediment control measures shall be used as necessary to contain/filter excess water. Drilling fluid shall be contained when working adjacent to a fish-populated watercourse*

during the relevant restricted period, and in any other situation where containment represents the only method of ensuring that there is no impact to adjacent streams”.

Drilling fluid will consist of fresh water and a sodium bentonite viscosifier such as Baroid Quick-Gel® and Baroid Quick-Trol®. Tremie grout will be utilized to seal the borings from the bottom of the boring. A mud tub will be located on the barge deck to recirculate the drilling fluid. Excess mud and fluids will be placed in drums for off-site disposal, none will be discharged to the waters of Great Thorofare.

4.0 SUBCHAPTER 9 – SPECIAL AREAS (N.J.A.C. 7:7-9.0) COMPLIANCE STATEMENTS

The applicable policies under subchapter 9 (N.J.A.C. 7:7-9.0) and demonstration of compliance are provided in this section. Policies that do not apply to the proposed activities are not listed.

Shellfish Habitat (N.J.A.C. 7:7-9.2)

*“Shellfish habitat is defined as an estuarine bay or river bottom which currently supports or has a history of production for hard clams (*Mercenaria mercenaria*), soft clams (*Mya arenaria*), eastern oysters (*Crassostrea virginica*), bay scallops (*Argopecten irradians*), or blue mussels (*Mytilus edulis*), or otherwise listed below in this section. A shellfish habitat area is defined as an area which meets one or more of the following criteria:*

- 1. The area has a current shellfish density equal to or greater than 0.20 shellfish per square foot;*
- 2. The area has a history of natural shellfish production according to data available to the New Jersey Bureau of Shellfisheries, or is depicted as having high or moderate commercial value in the Distribution of Shellfish Resources in Relation to the New Jersey Intracoastal Waterway (U.S. Department of the Interior, 1963) and/or "Inventory of New Jersey's Estuarine Shellfish Resources" (Division of Fish, Game and Wildlife, Bureau of Shellfisheries, 1983-present);*
- 3. The area is designated by the State of New Jersey as a shellfish culture area as authorized by N.J.S.A. 50:1 et seq. Shellfish culture areas include estuarine areas presently leased by the State for shellfish aquaculture activities or hard clam relay, transplant and transfer as well as those areas suitable for future shellfish aquaculture development; or*
- 4. The area is designated as productive at N.J.A.C. 7:25-24, Leasing of Atlantic and Delaware Bay Bottom for Aquaculture.*

Additionally, specific areas, such as but not limited to any area determined by the NJDEP to be contaminated by toxins, are excluded from the definition of shellfish habitat areas.”

This policy limits disturbance of shellfish habitat and prohibits specific activities, such as the construction of docks, piers, or boat moorings. This policy generally prohibits new dredging within and adjacent to shellfish habitat. Maintenance dredging under this policy is conditionally allowed provided that the disturbance to shellfish habitat is minimized to the greatest extent possible.

While the proposed Project is located in an area classified as “prohibited” for shellfish harvesting by NJDEP (NJDEP, 2022), there are no publicly available maps that indicate there is mapped soft and/or hard clam habitat in the immediate area of the Atlantic Ocean. Therefore, the Project is consistent with this policy.

Surf Clam Areas (N.J.A.C. 7:7-9.3)

*“Surf clams areas are coastal waters which can be demonstrated to support significant commercially harvestable quantities of surf clams (*Spisula solidissima*), or areas important for recruitment of surf clam stocks. This includes areas where fishing is prohibited for research sanctuary or conservation purposes by N.J.A.C. 7:25-12.1(d)(4). Surf clams are a marine fish and therefore are also subject to marine fish and fisheries rules, N.J.A.C. 7:7-16.2.*

This policy prohibits development which would result in the destruction, condemnation, or contamination of surf clam areas, except for development that is of national interest and/or sand and gravel mining to obtain material for beach nourishment.

While Project activities could be located in surf clam areas within the Atlantic Ocean, the Project does not include development. There is potential for temporary, short-term impacts at each sampling location within the water column. These impacts will be temporary and will not cause significant sediment loading in waters within the immediate vicinity of the sampling location. Sampling at each of the five respective locations will be temporary and will cause sediment loading in waters within the immediate vicinity of the sampling location; however, the sample itself will be completed in minutes to hours so this sediment loading will be temporary and brief. After the sample has been collected, any suspended sediment is expected to settle out of the water column quickly. and will not cause significant sediment loading in waters within the immediate vicinity of the sampling location. Sampling at each of the five respective locations will be temporary and will cause sediment loading in waters within the immediate vicinity of the sampling location; however, the sample itself will be completed in minutes to hours so this sediment loading will be temporary and brief. After the sample has been collected, any suspended sediment is expected to settle out of the water column quickly. Therefore, the Project is consistent with this possible.

Finfish Migratory Pathways (N.J.A.C. 7:7-9.5)

*“Finfish migratory pathways are waterways (rivers, streams, creeks, bays and inlets) which can be determined to serve as passageways for diadromous fish to or from seasonal spawning areas, including juvenile anadromous fish which migrate in autumn and those listed by H.E. Zich (1977) “New Jersey Anadromous Fish Inventory” NJDEP Miscellaneous Report No. 41, and including those portions of the Hudson and Delaware Rivers within the coastal zone boundary. Species of concern include: alewife or river herring (*Alosa pseudoharengus*), blueback herring (*Alosa aestivalis*), American shad (*Alosa sapidissima*), striped bass (*Morone saxatilis*), Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*), Shortnose sturgeon (*Acipenser brevirostrum*) and American eel (*Anguilla rostrata*).”*

This policy prohibits development, such as dams, dikes, spillways, channelization, tide gates and intake pipes, which creates a physical barrier to the movement of fish along finfish migratory pathways, unless

acceptable mitigation measures such as fish ladders, erosion control, or oxygenation are implemented. This policy also prohibits development which lowers water quality to such an extent as to interfere with the movement of fish along finfish migratory pathways or to violate State and Delaware River Basin Commission water quality standards. This policy requires mitigating measures for any development which would result in: lowering dissolved oxygen levels, releasing toxic chemicals, raising ambient water temperature, impinging or suffocating fish, entrainment of fish eggs, larvae or juveniles, causing siltation, or raising turbidity levels during migration periods.

While Project activities could be located in finfish migratory pathways, the Project does not include development. There is potential for temporary, short-term impacts at each sampling location within the water column. These impacts will be temporary and will not cause significant sediment loading in waters within the immediate vicinity of the sampling location. Sampling at each of the five respective locations will be temporary and will cause sediment loading in waters within the immediate vicinity of the sampling location; however, the sample itself will be completed in minutes to hours so this sediment loading will be temporary and brief. After the sample has been collected, any suspended sediment is expected to settle out of the water column quickly. and will not cause significant sediment loading in waters within the immediate vicinity of the sampling location. Sampling at each of the five respective locations will be temporary and will cause sediment loading in waters within the immediate vicinity of the sampling location; however, the sample itself will be completed in minutes to hours so this sediment loading will be temporary and brief. After the sample has been collected, any suspended sediment is expected to settle out of the water column quickly. Therefore, the Project is consistent with this possible.

Navigation Channels (N.J.A.C. 7:7-9.7)

"Navigation channels are tidal water areas including the Atlantic Ocean, inlets, bays, rivers and tidal guts with sufficient depth to provide safe navigation. Navigation channels include all areas between the top of the channel slopes on either side. These navigation channels are often marked with buoys or stakes. Major navigation channels are shown on NOAA/National Ocean Service Charts."

This policy requires development which would result in terrestrial soil and shoreline erosion and siltation in navigation channels to utilize appropriate mitigation measures. This policy prohibits development which would result in the loss of navigability or construction which extends into a navigation channel. Under this policy, the placement of structures within 50 feet of any authorized navigation channel requires demonstration that the proposed structure would not hinder navigation. This policy permits maintenance dredging, as defined in N.J.A.C. 7:7-12.6, of navigation channels to provide safe navigation provided the dredging activity meets the requirements of N.J.A.C. 7:7-12.6 and Appendix G of N.J.A.C. 7:7. New dredging, as defined in N.J.A.C. 7:7-12.7, is conditionally permitted under this policy as long as the activity meets the requirements of N.J.A.C. 7:7-12.7 and Appendix G of N.J.A.C. 7:7.

The proposed sampling will be located in the Atlantic Ocean, which is defined as a "navigation channel" in N.J.A.C. 7:7-9.7(a). However, sampling activities would not have adverse impacts to navigation due to the short duration and limited spatial extent of the proposed sampling. Therefore, the Project is consistent with this policy.

Submerged Infrastructure Routes (N.J.A.C. 7:7-9.12)

"A submerged infrastructure route is the corridor in which a pipe or cable runs on or below a submerged land surface."

This policy prohibits any activity which would result in the increased likelihood of infrastructure damage or breakage, or interference with maintenance operations. According to the NOAA Navigation Chart 12324 (NOAA, 2023e), the Project will be in proximity to an existing cable area located north of the Manasquan Inlet. Atlantic Shores has sited the proposed sampling locations to avoid any existing submerged infrastructure route. Project activities would not result in infrastructure damage or breakage, or interference with maintenance operations. Therefore, the Project is consistent with this policy.

Endangered or Threatened Wildlife or Plant Species Habitat (N.J.A.C. 7:7-9.36)

"Endangered or threatened wildlife or plant species habitats are terrestrial and aquatic (marine, estuarine, or freshwater) areas known to be inhabited on a seasonal or permanent basis by or to be critical at any stage in the life cycle of any wildlife or plant identified as "endangered" or "threatened" species on official Federal or State lists of endangered or threatened species, or under active consideration for State or Federal listing. The definition of endangered or threatened wildlife or plant species habitats includes a sufficient buffer area to ensure continued survival of the population of the species as well as areas that serve an essential role as corridors for movement of endangered or threatened wildlife. Absence of such a buffer area does not preclude an area from being endangered or threatened wildlife or plant species habitat."

This policy prohibits the development of endangered or threatened wildlife or plant species (henceforth known as "listed species" for this section) habitat unless it can be demonstrated, through a listed species impact assessment as described at N.J.A.C. 7:7-11, that listed species habitat would not directly or through secondary impacts on the relevant site or in the surrounding area be adversely affected.

As stated in Section 3.0 in the response to N.J.A.C. 7:7-6.23(a)(1), Project activities are primarily not anticipated to occur within any endangered/ threatened wildlife or plant species habitat. The USFWS IPaC was consulted to determine federally endangered/threatened wildlife/plant species or their habitat that could potentially occur within the Project Area.

The USFWS documented three federal listed species within proximity to the Project Area:

- Red knot (*Calidris canutus rufa*)
- Piping plover (*Charadrius melodus*)
- Roseate Tern (*Sterna dougallii dougallii*)

These three species and their associated habitat occur onshore along beachfronts, dunes, and estuarine habitats (i.e., tidal flats); however, the proposed borings will occur within the Atlantic Ocean. Therefore, the proposed sampling will not have any impact on suitable habitat for any of the three species identified in the IPaC.

Additionally, the Marine Landscape Project on the NJDEP GeoWeb Mapper was consulted to determine state endangered/threatened wildlife/plant species or their habitat that could potentially occur within the Project Area.

NJDEP documented six state listed species within proximity to the Project Area:

- Osprey (*Pandion haliaetus*)
- Fin whale (*Balaenoptera physalus*)
- Humpback whale (*Megaptera novaeangliae*)
- North Atlantic right whale (*Eubalaena glacialis*)
- Atlantic leatherback (*Dermochelys coriacea*)
- Least Tern (*Sternula antillarum*)

The two bird species (osprey and least tern) and their associated habitat include riparian corridors, wetlands, and estuarine and inland open water; however, the proposed borings will occur within the Atlantic Ocean, which is not suitable habitat for either of the two bird species.

As for the Atlantic leatherback, the habitat of this species consists of open marine water with nesting habitat primarily located in tropical latitudes around the world (NOAA, 2023a). The habitat for the three whale species (Fin whale, Humpback whale, and North Atlantic right whale) consists of deep, offshore waters and waters along the continental shelf (NOAA, 2023b; NOAA, 2023c; NOAA, 2023d). While proposed project activities would occur within State-listed marine reptile and mammal habitat, activities would not result in direct, adverse impacts to these species and/or their associated habitat. As detailed in Section 2.0, the direct temporary impact area will be limited to the radius and depth of the boreholes with limited indirect impacts occurring as a result of sediment suspension during boring activities and subsequent settling which is not anticipated to extend a significant distance from the sampling location. It is assumed that the natural sediment movement from tides and wind, and subsequent currents, will quickly fill the boring locations to natural grade.

Furthermore, in order to minimize impacts to offshore listed species (i.e., sea turtles), with the main goal of avoidance, Atlantic Shores has developed BMPs such as: training personnel in marine mammal spotting and identification, observation reporting protocols and vessel strike avoidance procedures; establishing marine mammal protection zones which would include an exclusion zone; utilizing National Oceanic and Atmospheric Administration (NOAA) Fisheries-approved protected species observers (PSOs); and using acoustic monitoring during periods of inclement weather and/or low visibility. Therefore, the proposed borings will not have any impact on suitable habitat for any of the four listed species identified in the Marine Landscape Project.

Atlantic Shores does not anticipate impacts to any federal or state-listed species. Therefore, the Project is consistent with this policy.

5.0 SOURCES

ASTM D1586-11. Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils.

ASTM D1587-00. Standard Practice for Thin-Walled Tube Sampling of Soils for Geotechnical Purposes.

ASTM D3550/D3550M-17. Standard Practice for Thick Wall, Ring-Lined, Split Barrel, Drive Sampling of Soils.

ASTM D5778. Standard Test Method for Electronic Friction Cone and Piezocone Penetration Testing of Soils.

EPA. 2020. New Jersey 303(d) List. <https://www.epa.gov/system/files/documents/2022-01/nj-2020-303d-list.pdf>. (Accessed November 2023).

NJDEP. 2022. Shellfish Growing Waters Classification Charts. <https://www.nj.gov/dep/bmw/docs/2022classificationcharts.pdf>. (Accessed December 2023).

NOAA. 2023a. Leatherback Turtle. <https://www.fisheries.noaa.gov/species/leatherback-turtle>. (Accessed December 2023).

NOAA. 2023b. Fin Whale. <https://www.fisheries.noaa.gov/species/fin-whale>. (Accessed December 2023).

NOAA. 2023c. Humpback Whale. <https://www.fisheries.noaa.gov/species/humpback-whale>. (Accessed December 2023). North Atlantic Right Whale. <https://www.fisheries.noaa.gov/species/north-atlantic-right-whale>. (Accessed December 2023).

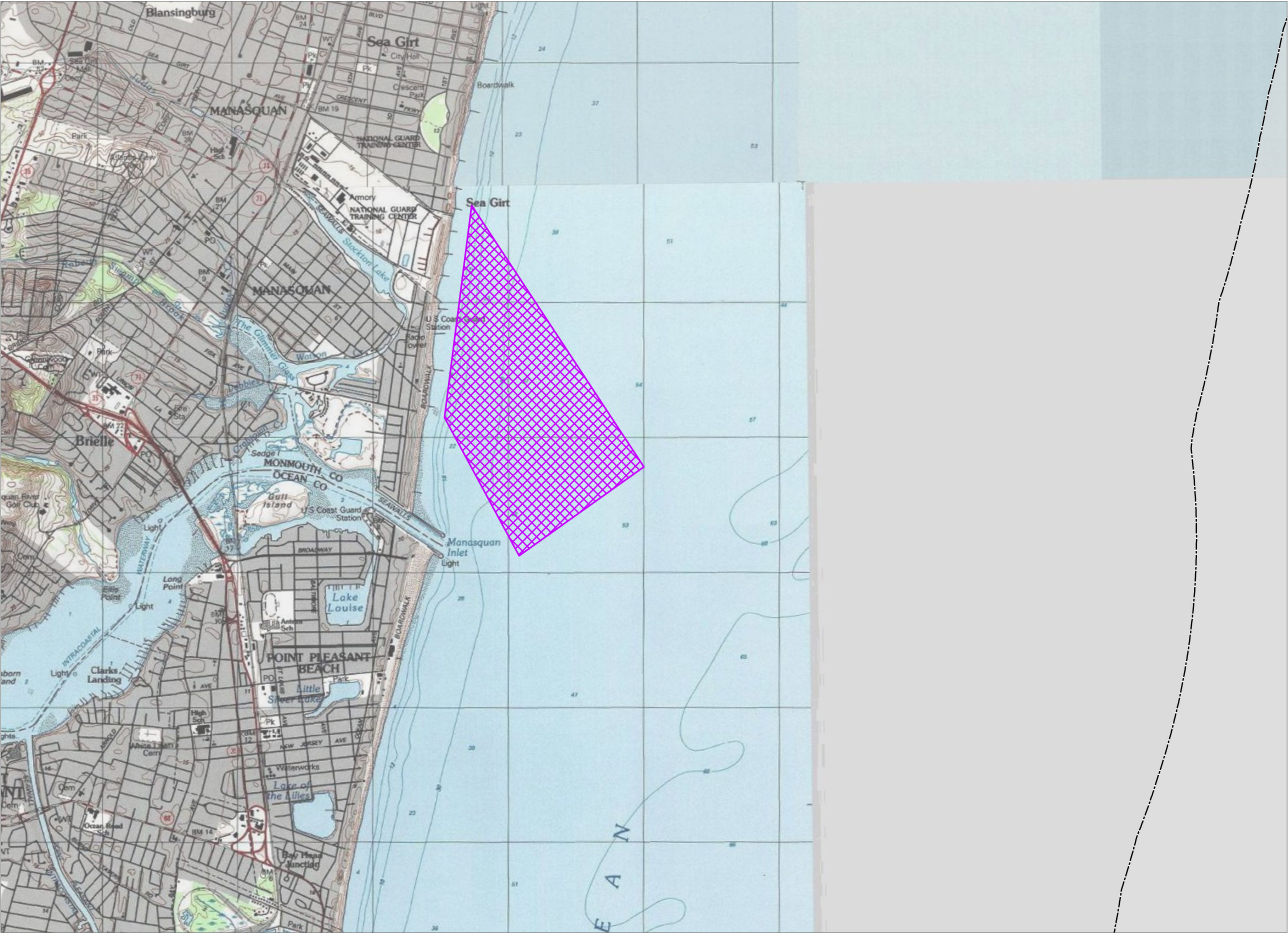
NOAA. 2023d. North Atlantic Right Whale. <https://www.fisheries.noaa.gov/species/north-atlantic-right-whale>. (Accessed December 2023).

NOAA. 2023e. Sandy Hook to Little Egg Harbor, Nautical Chart 12324. <https://www.charts.noaa.gov/PDFs/12324.pdf>. (Accessed December 2023).

USGS. 2019. Sediment Sample Surveys: Vibracoring. Available: https://pubs.usgs.gov/pp/p1634/jf_vbcor.htm (Accessed March 2020).

APPENDIX A

Figures and Site Plan

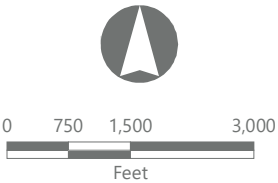


2024 Geotechnical
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Monmouth ECC
Geotechnical
Investigation Area

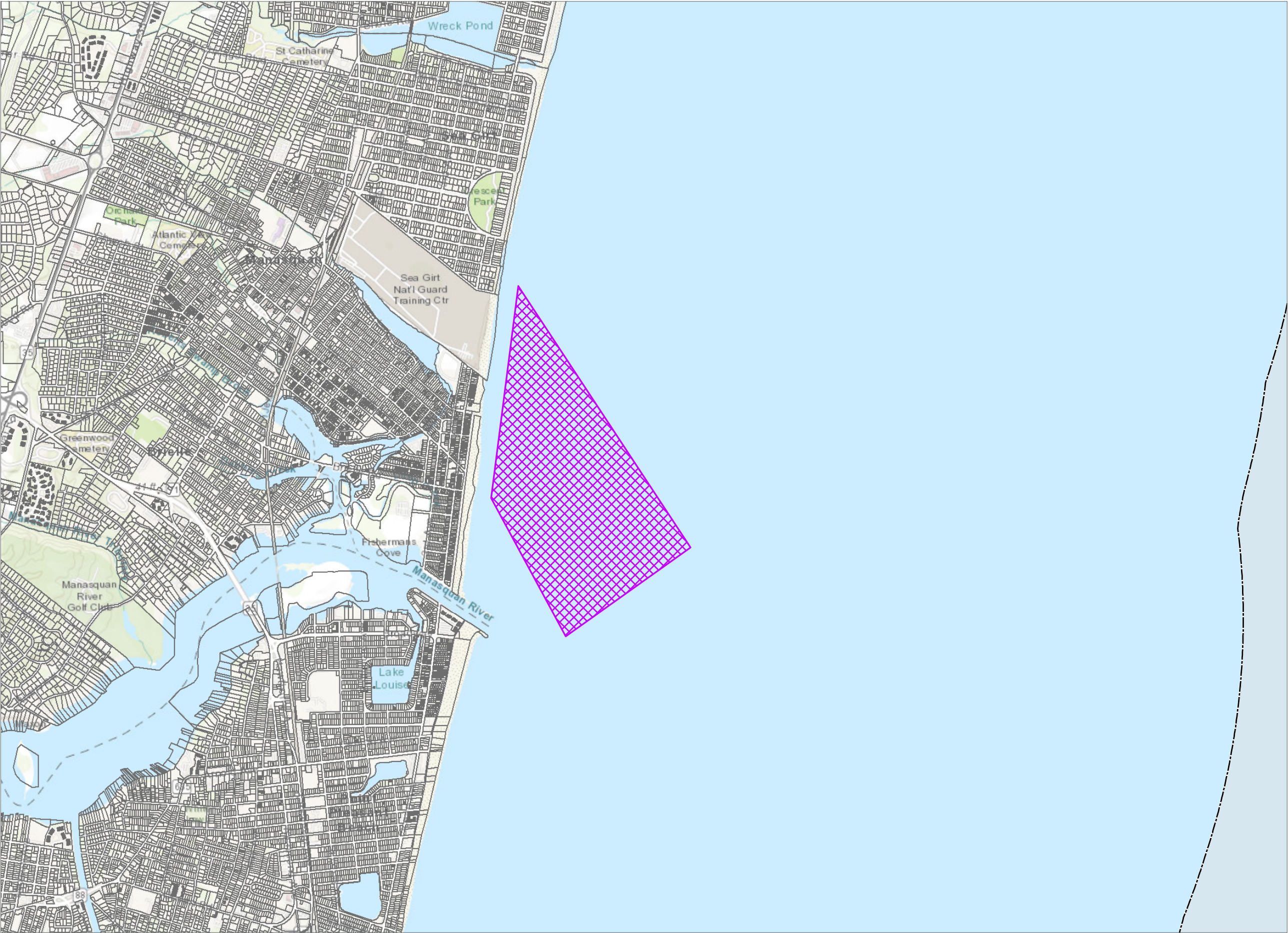
Atlantic Ocean, New Jersey State
Waters

**Waterfront Development Individual
Permit**

- Federal Waters Boundary
- Geotech Area



Prepared January 12, 2024
Basemap: Esri ArcGIS Online "USA Topo Maps" map service.

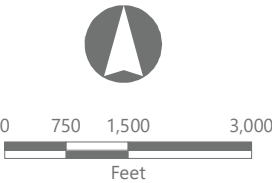


2024 Geotechnical
Survey Area –
Monmouth ECC
Geotechnical
Investigation Area

Atlantic Ocean, New Jersey State
Waters

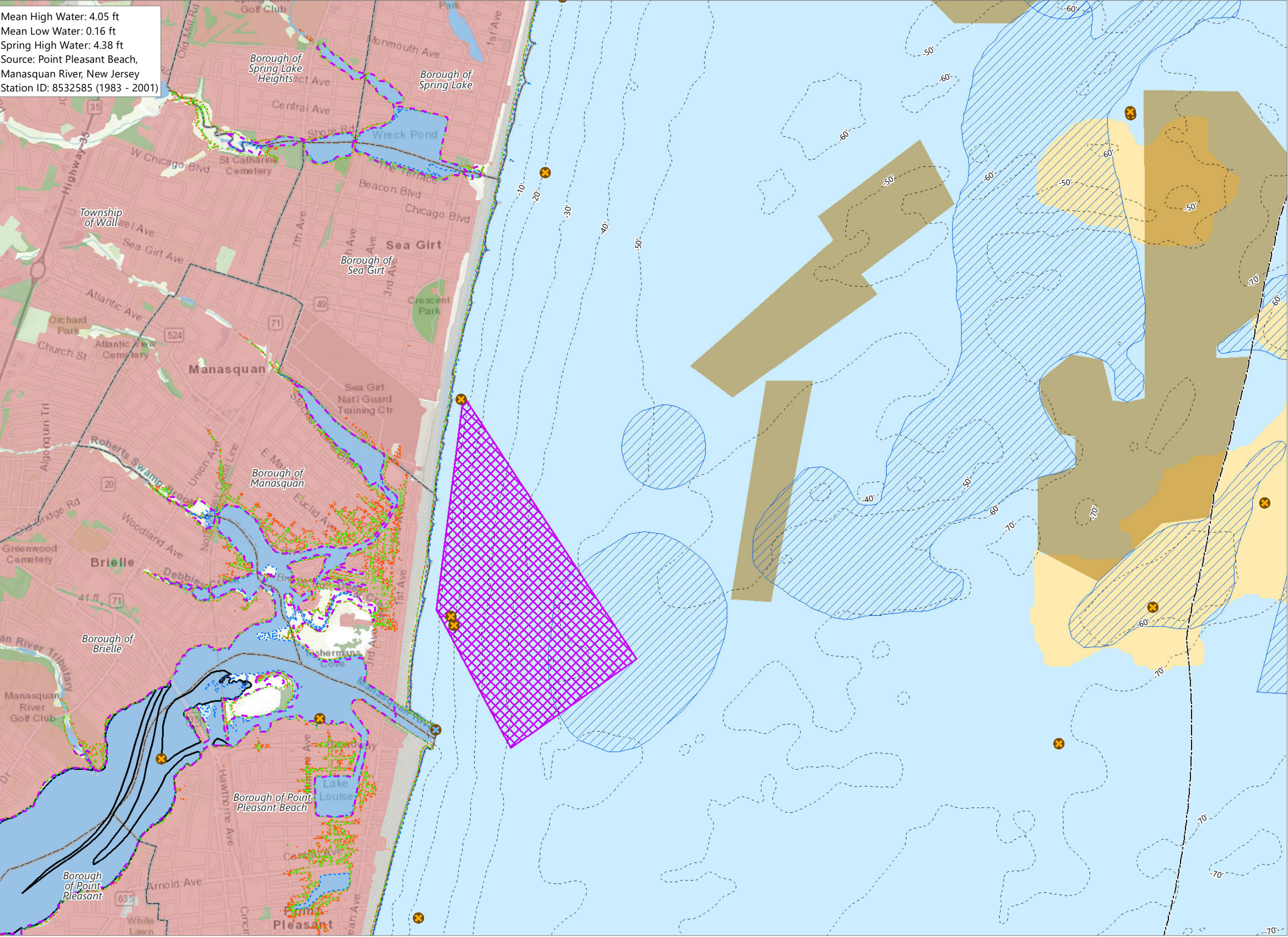
**Waterfront Development Individual
Permit**

- Federal and State Waters Boundary
- Geotech Area
- Tax Parcel Boundary



Prepared January 12, 2024
Basemap: Esri ArcGIS Online "World Topographic Map" map service.

Mean High Water: 4.05 ft
Mean Low Water: 0.16 ft
Spring High Water: 4.38 ft
Source: Point Pleasant Beach,
Manasquan River, New Jersey
Station ID: 8532585 (1983 - 2001)

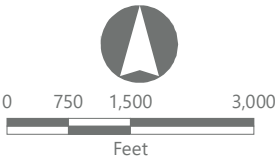


2024 Geotechnical
Survey Area –
Monmouth ECC
Geotechnical
Investigation Area

Atlantic Ocean, New Jersey State
Waters

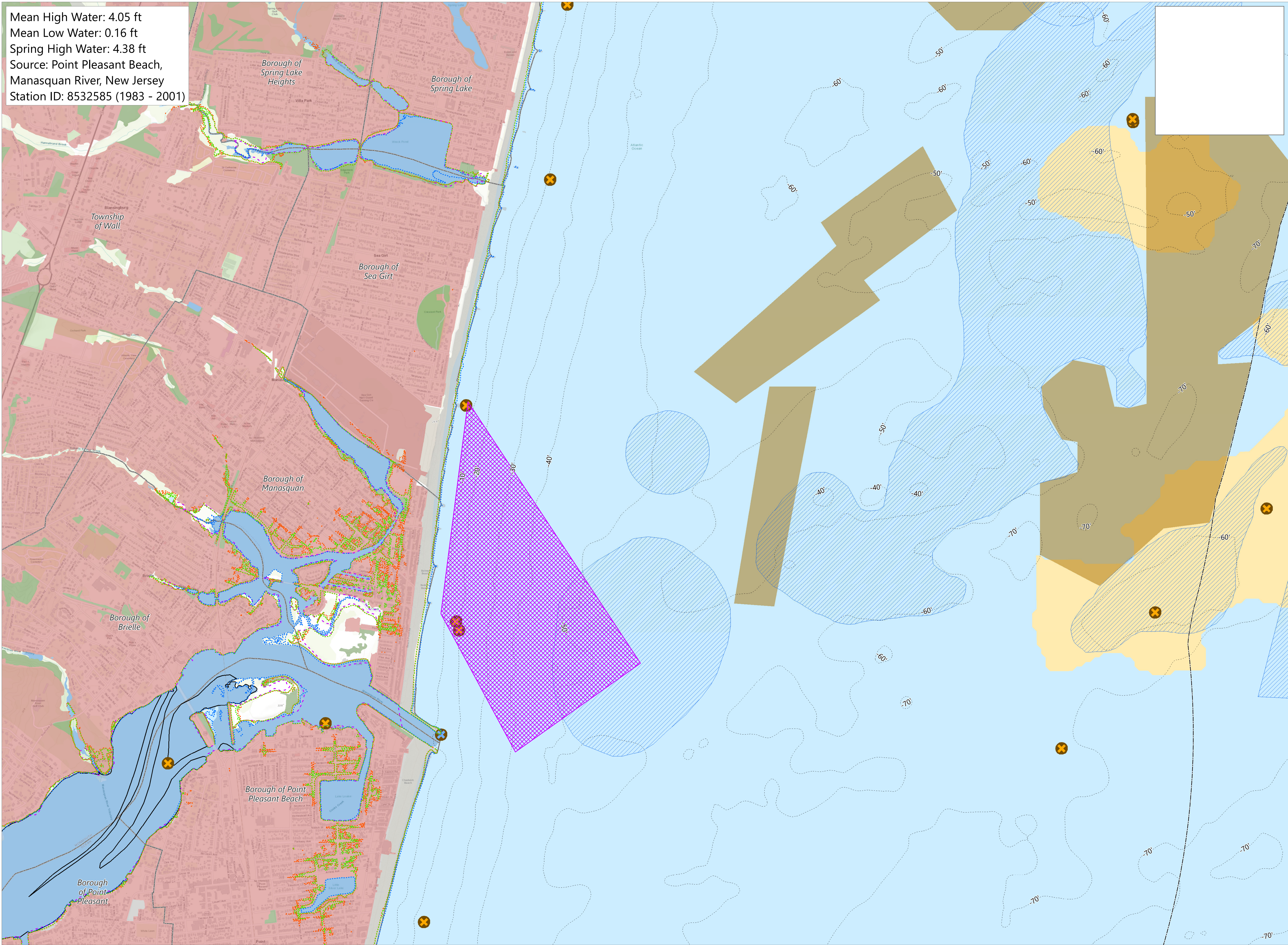
Waterfront Development Individual
Permit

- Obstruction
- Wreck
- Mean High Water Contour
- Mean Low Water Contour
- Spring High Water Contour
- NJDEP Upper Wetlands Boundary
- Bathymetric Contour (ft)
- Federal Waters Boundary
- Geotech Area
- Submerged Aquatic Vegetation (1979)
- Prime Fishing Area
- USACE Sand Resource Area
- NJGWS Sand Resource Area
- Municipal Boundary
- Land Cover
 - Agriculture
 - Barren Land
 - Forest
 - Urban
 - Water



Prepared January 12, 2024
Basemap: Esri ArcGIS Online "World Topographic Map" map service.

Mean High Water: 4.05 ft
Mean Low Water: 0.16 ft
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Source: Point Pleasant Beach,
Manasquan River, New Jersey
Station ID: 8532585 (1983 - 2001)

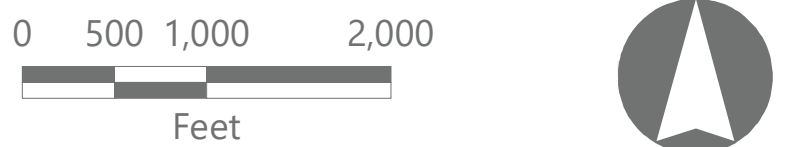


2024 Geotechnical
Survey Area –
Monmouth ECC
Geotechnical
Investigation Area

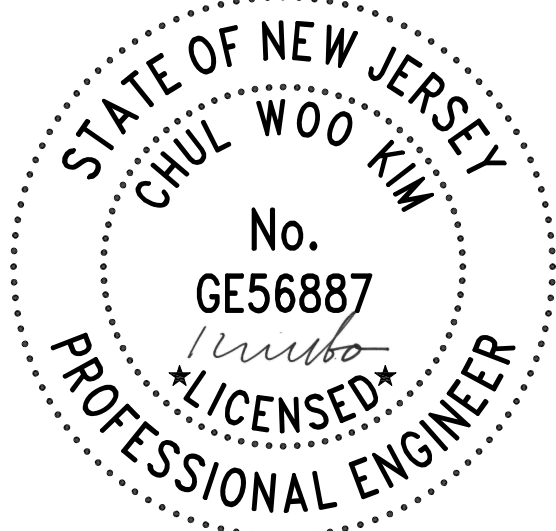
Atlantic Ocean, New Jersey State
Waters

Waterfront Development
Individual Permit

- Obstruction
- Wreck
- Mean High Water Contour
- Mean Low Water Contour
- Spring High Water Contour
- NJDEP Upper Wetlands Boundary
- Federal Waters Boundary
- Geotech Area
- Submerged Aquatic Vegetation (1979)
- Prime Fishing Area
- USACE Sand Resource Area
- NJGWS Sand Resource Area
- Municipal Boundary
- Land Cover
 - Agriculture
 - Barren Land
 - Forest
 - Urban
 - Water



1 inch = 1,042 feet



Chul Woo Kim
Professional Engineer
Atlantic Shores Offshore Wind
1 Dock 72, Floor 7, Brooklyn, New York

Version	Date
Version 1	1/5/2024

Prepared January 12, 2024
Basemap: Esri ArcGIS Online "World Topographic Map" map service.

APPENDIX B

Public Notice Form



New Jersey Department of Environmental Protection
Land Use Management Program
Division of Land Use Regulation
PUBLIC NOTICE

SECTION A. SITE INFORMATION

Applicant's Name: _____
Street Address: _____
Municipality: _____ County: _____ Zip Code: _____
Blocks and Lots: _____

SECTION B. STANDARD NOTICE REQUIREMENTS

Except as provided at item 6 below, public notice of the application shall be provided no more than 30 calendar days prior to submitting the application and no later than the date the application is submitted to the Department.

1. Public notice is required for all of the following (*check all that apply*):

- ☐ A flood hazard area general permit authorization (except general permit 1)
- ☐ A flood hazard area individual permit
- ☐ A flood hazard area verification
- ☐ A coastal general permit authorization
- ☐ A CAFRA individual permit
- ☐ An in-water waterfront development individual permit
- ☐ An upland waterfront development individual permit
- ☐ A coastal wetlands individual permit
- ☐ A freshwater wetlands individual permit
- ☐ A freshwater wetlands transition area waiver
- ☐ A freshwater wetlands general permit authorization (except general permit 15)
- ☐ A freshwater wetlands general permit 15 (**please skip to [Section C](#)**)

2. Has a copy of the entire application been sent to the municipal clerk of each municipality in which the proposed activity or project is located? ☐ Yes ☐ No

Note: For electronic submissions, the application consists of a description of the project, which must include the lot and block, municipality, and county, the specific permit(s)/authorization(s) being sought, and all items that will be uploaded to the submission service, including all required items on the applicable application checklist(s).

If "**Yes**," did you attach a copy of the certified United States Postal Service white mailing receipt, or other written receipt, and a copy of any letter sent with the application to this form? ☐ Yes ☐ No

3. Have both a notice letter, including a brief description of the proposed activity or project, and a legible copy of the site plans been sent to the all following applicable agencies? ☐ Yes ☐ No

- The construction official of each municipality in which the site is located
- The environmental commission, or other government agency with similar responsibilities, of each municipality in which the site is located
- The planning board of each municipality in which the site is located
- The planning board of each county in which the site is located

If "**Yes**," did you attach **both** of the following to this form? ☐ Yes ☐ No

- A copy of the certified United States Postal Service white mailing receipt or other written receipt
- A copy of the notice letter

4. Is the application for a coastal permit for an activity within the 12-mile circle with Delaware, as described at N.J.A.C. 7:7-1.2(c), or within 200 feet of the 12-mile circle? ☐ Yes ☐ No
- If "Yes," have both a notice letter, including a brief description of the proposed activity or project, and a legible copy of the site plans been sent to the State of Delaware, Department of Natural Resources & Environmental Control, Delaware Coastal Management Program, 89 Kings Highway, Dover, DE 19901? ☐ Yes ☐ No
- If "Yes," did you attach **both** of the following to this form? ☐ Yes ☐ No
- A copy of the certified United States Postal Service white mailing receipt or other written receipt
 - A copy of the notice letter
5. Is the application for a waterfront development individual permit to install a submarine cable in the ocean or to perform sand mining in the ocean? ☐ Yes ☐ No
- If "Yes," have you submitted a description of the project, the specific permit(s)/authorization(s) being sought, and a copy of the NOAA nautical chart showing the proposed cable route or the limits of the proposed sand mining area to **all** of the following entities? ☐ Yes ☐ No
- Garden State Seafood Association
 - National Fisheries Institute
 - North Atlantic Clam Association
 - Rutgers Cooperative Extension
 - New Jersey Shellfisheries Council
 - New Jersey Marine Fisheries Council
6. Does the application include a CAFRA individual permit? ☐ Yes ☐ No
- If "No," skip to Question 7.
- If "Yes," has newspaper notice, consisting of a legal notice or display advertisement, been published in the official newspaper of the municipality in which the site is located or a newspaper of general circulation in the municipality? ☐ Yes ☐ No
- If "Yes," did you attach a copy of the published newspaper notice, the date of publication, and the name of the newspaper to this form? ☐ Yes ☐ No
- If "No," did you verify that a newspaper notice, consisting of a legal notice or display advertisement, will be published in the official newspaper of the municipality in which the site is located or a newspaper of general circulation in the municipality no more than **10 calendar days** after the application is submitted to the Department? ☐ Yes ☐ No
- Note:** A copy of the published newspaper notice, the date of publication, and the name of the newspaper must be submitted to the Department within this timeframe.
7. Does the application include one or more of the activities listed below (**other than those proposed in a freshwater wetlands individual permit application**)? ☐ Yes ☐ No
- A delineation of one-half mile or longer of a regulated water
 - A mosquito control activity subject to flood hazard general permit 2
 - A linear project of one-half mile or longer
 - A shore protection development, including beach nourishment, beach and dune maintenance, or dune creation of one-half mile or longer
 - A public development on a site of 50 acres or more
 - An industrial or commercial development on a site of 100 acres or more
 - A project to remove sediment or debris from a channel of one-half mile or longer
 - Maintenance dredging of a State navigation channel of one-half mile or longer
 - A trail or boardwalk of one-half mile or longer subject to a freshwater wetlands general permit or transition area waiver

If you answered "**No**," to question 7:

Have both a notice letter, including a brief description of the proposed activity or project, and a legible copy of the site plans been sent to all owners of real property, including easements, located **within 200 feet of the property boundary of the site**? ☐ Yes ☐ No

If "**Yes**," did you attach **all** of the following to this form? ☐ Yes ☐ No

- A copy of the certified United States Postal Service white mailing receipt or other written receipt
- A copy of the notice letter
- A certified list of all owners of real property, including easements, within 200 feet of the property boundary, prepared by the municipality with a date of certification no earlier than one year prior to the date of the application

If you answered "**Yes**," to question 7, answer questions I. and II. below:

I. Have both a notice letter, including a brief description of the proposed activity or project, and a legible copy of the site plans been sent to all owners of property, including easements, **within 200 feet of any proposed above-ground structure**? ☐ Yes ☐ No

If "**Yes**," did you attach **all** of the following to this form? ☐ Yes ☐ No

- A copy of the certified United States Postal Service white mailing receipt or other written receipt
- A copy of the notice letter
- A certified list of all owners of real property, including easements, within 200 feet of the property boundary, prepared by the municipality with a date of certification no earlier than one year prior to the date of the application

II. For all applications, **except CAFRA individual permits**, has newspaper notice, consisting of a legal notice or display advertisement been published in the official newspaper of the municipality in which the site is located or a newspaper of general circulation in the municipality? ☐ Yes ☐ No

If "**Yes**," did you attach a copy of the published newspaper notice, the date of publication, and the name of the newspaper to this form? ☐ Yes ☐ No

8. Will the proposed activity or project disturb 5,000 square feet of land or more? ☐ Yes ☐ No

If "**Yes**," have both a notice letter, including a brief description of the proposed activity or project, and a legible copy of the site plans been sent to the local Soil Conservation District? ☐ Yes ☐ No

If "**Yes**," did you attach a copy of the certified United States Postal Service white mailing receipt or other written receipt **and** a copy of the notice letter to this form? ☐ Yes ☐ No

9. Is the proposed activity or project located within the Pinelands Area as designated under the Pinelands Protection Act at N.J.S.A. 13:18A-11(a)? ☐ Yes ☐ No

If "**Yes**," you are also required to complete [Section D](#) of this form.

10. Does the application include a freshwater wetlands individual permit application? ☐ Yes ☐ No

If "**No**," skip to Question 11.

If "**Yes**," does the proposed project involve more than 10 acres of fill? ☐ Yes ☐ No

If "**Yes**," has newspaper notice been published in a newspaper with regional circulation in the region in which the site is located? ☐ Yes ☐ No

If "**Yes**," did you attach a copy of the published newspaper notice, the date of publication, and the name of the newspaper to this form? ☐ Yes ☐ No

If "**No**," has newspaper notice consisting of a legal notice or display advertisement been published in the official newspaper of the municipality in which the site is located or a newspaper of general circulation in the municipality? ☐ Yes ☐ No

If "**Yes**," did you attach a copy of the published newspaper notice, the date of publication, and the name of the newspaper to this form? ☐ Yes ☐ No

11. Does the application include a flood hazard individual permit based on a hardship exception? ☐ Yes ☐ No
- If "Yes," do all notice letters and published newspaper notices attached to this form (under questions 3, 4, 7, and 8 above, as applicable) include a description of the nature of the hardship as well as the citation and subject matter of each requirement for which the hardship exception is being requested? ☐ Yes ☐ No

SECTION C. FRESHWATER WETLANDS GENERAL PERMIT 15

This section only applies to applications that include a freshwater wetlands general permit 15.

1. Is the applicant a Federal agency conducting activities on Federal land? ☐ Yes ☐ No
- If "Yes," public notice is not required for this activity.
2. Has a display advertisement describing the proposed activities, at least four column inches in size, been published in a newspaper with local circulation (including the municipality) and in a newspaper with regional circulation (including the county)? ☐ Yes ☐ No
- If "Yes," did you attach a copy of the published newspaper notices, the dates of publication, and the names of the newspapers to this form? ☐ Yes ☐ No

SECTION D. PINELANDS

This section only applies to applications where the proposed activity or project is located within the Pinelands Area as designated under the Pinelands Protection Act at N.J.S.A. 13:18A-11.a.

1. Does the application include a flood hazard general permit or individual permit? ☐ Yes ☐ No
- If "Yes," has a description of the project, including the lot and block, municipality, county, and specific permit(s)/authorization(s) being sought, been sent to the New Jersey Pinelands Commission? ☐ Yes ☐ No
- If "Yes," did you attach a copy of the certified United States Postal Service white mailing receipt or other written receipt and a copy of any letter provided with the project description to this form? ☐ Yes ☐ No
2. Does the application include a coastal general permit or individual permit? ☐ Yes ☐ No
- If "Yes," has a copy of the entire application been sent to the New Jersey Pinelands Commission? ☐ Yes ☐ No
- Note: For electronic submissions, the application consists of a description of the project, which must include the lot and block, municipality, and county, the specific permit(s)/authorization(s) being sought, and all items that will be uploaded to the submission service, including all required items on the applicable application checklist(s).
- If "Yes," did you attach a copy of the certified United States Postal Service white mailing receipt or other written receipt and a copy of any letter provided with the application to this form? ☐ Yes ☐ No
3. Is the application solely for a freshwater wetlands general permit(s)? ☐ Yes ☐ No
- If "Yes," do not submit the application to the Department. Submit the application to the New Jersey Pinelands Commission.

APPENDIX C

Proof of Public Notification



February 8, 2024

Barbara Ilaria, Borough of Manasquan Clerk
201 East Main Street
Manasquan, NJ 08736

Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical Investigation Project

Dear Ms. Ilaria:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

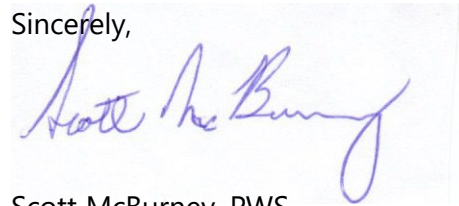
The complete permit application package can be reviewed at either the municipal clerk's office in the municipality in which the site subject to the application is located, or by appointment at the Department's Trenton Office. The Department welcomes comments and any information that you may provide concerning the proposed development and site.

The Department welcomes comments and any information that you may provide concerning the proposed development and site.

Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

A handwritten signature in blue ink, appearing to read "Scott McBurney", is written over a light blue rectangular background.

Scott McBurney, PWS

Senior Project Manager, Wetlands Technical Leader

Cc: Jennifer Daniels (Atlantic Shores)
Stephanie Wilson (Atlantic Shores)
Megan Hayes (Atlantic Shores)



February 8, 2024

Dawn Harriman, Borough of Sea Girt Clerk
Borough Hall
321 Baltimore Boulevard
P.O. Box 296
Sea Girt, NJ 08750

Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical Investigation Project

Dear Ms. Harriman:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

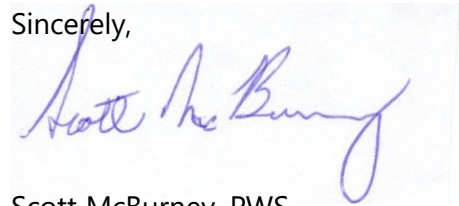
The complete permit application package can be reviewed at either the municipal clerk's office in the municipality in which the site subject to the application is located, or by appointment at the Department's Trenton Office. The Department welcomes comments and any information that you may provide concerning the proposed development and site.

The Department welcomes comments and any information that you may provide concerning the proposed development and site.

Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

A handwritten signature in blue ink, appearing to read "Scott McBurney", is written over a light blue rectangular background.

Scott McBurney, PWS

Senior Project Manager, Wetlands Technical Leader

Cc: Jennifer Daniels (Atlantic Shores)
Stephanie Wilson (Atlantic Shores)
Megan Hayes (Atlantic Shores)



Atlantic Shores Offshore Wind, LLC
Dock 72
Brooklyn, NY 11205
www.atlanticshoreswind.com

February 8, 2024

Borough of Manasquan Construction Department
Frank DiRoma, Department Head
201 East Main Street
Manasquan, NJ 08736

**Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit
Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical
Investigation Project**

Dear Mr. DiRoma:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

The complete permit application package can be reviewed at either the municipal clerk's office in the municipality in which the site subject to the application is located, or by appointment at the Department's Trenton Office. The Department welcomes comments and any information that you may provide concerning the proposed development and site.

Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Daniels".

Jennifer Daniels, Development Director
Atlantic Shores Offshore Wind, LLC



Atlantic Shores Offshore Wind, LLC
Dock 72
Brooklyn, NY 11205
www.atlanticshoreswind.com

February 8, 2024

Borough of Manasquan Environmental Commission
Gregory Love, Chairman
201 East Main Street
Manasquan, NJ 08736

**Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit
Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical
Investigation Project**

Dear Mr. Love:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

The complete permit application package can be reviewed at either the municipal clerk's office in the municipality in which the site subject to the application is located, or by appointment at the Department's Trenton Office. The Department welcomes comments and any information that you may provide concerning the proposed development and site.

Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Daniels".

Jennifer Daniels, Development Director
Atlantic Shores Offshore Wind, LLC



Atlantic Shores Offshore Wind, LLC
Dock 72
Brooklyn, NY 11205
www.atlanticshoreswind.com

February 8, 2024

Borough of Manasquan Planning & Zoning Office
Frank DiRoma, Department Head & Zoning Officer
201 East Main Street
Manasquan, NJ 08736

**Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit
Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical
Investigation Project**

Dear Mr. DiRoma:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

The complete permit application package can be reviewed at either the municipal clerk's office in the municipality in which the site subject to the application is located, or by appointment at the Department's Trenton Office. The Department welcomes comments and any information that you may provide concerning the proposed development and site.

Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Daniels".

Jennifer Daniels, Development Director
Atlantic Shores Offshore Wind, LLC



Atlantic Shores Offshore Wind, LLC
Dock 72
Brooklyn, NY 11205
www.atlanticshoreswind.com

February 8, 2024

Monmouth County Environmental Council
1 East Main Street
P.O. Box 1255
Freehold, NJ 07728-1255

**Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit
Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical
Investigation Project**

Dear Environmental Council:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

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Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Daniels".

Jennifer Daniels, Development Director
Atlantic Shores Offshore Wind, LLC



Atlantic Shores Offshore Wind, LLC
Dock 72
Brooklyn, NY 11205
www.atlanticshoreswind.com

February 8, 2024

Monmouth County Division of Planning
1 East Main Street
P.O. Box 1255
Freehold, NJ 07728-1255

**Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit
Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical
Investigation Project**

Dear Division of Planning:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

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Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Daniels".

Jennifer Daniels, Development Director
Atlantic Shores Offshore Wind, LLC



Atlantic Shores Offshore Wind, LLC
Dock 72
Brooklyn, NY 11205
www.atlanticshoreswind.com

February 8, 2024

Borough of Sea Girt Building and Construction Department
Ed Mack
423 Warren Avenue
P.O. Box 638
Spring Lake, NJ 07762

**Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit
Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical
Investigation Project**

Dear Mr. Mack:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

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Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Daniels".

Jennifer Daniels, Development Director
Atlantic Shores Offshore Wind, LLC



Atlantic Shores Offshore Wind, LLC
Dock 72
Brooklyn, NY 11205
www.atlanticshoreswind.com

February 8, 2024

Borough of Sea Girt Planning & Zoning Board
Karen Brisben
321 Baltimore Boulevard
P.O. Box 296
Sea Girt, NJ 08750

**Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit
Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical
Investigation Project**

Dear Ms. Brisben:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary soil drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

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Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Daniels".

Jennifer Daniels, Development Director
Atlantic Shores Offshore Wind, LLC



February 8, 2024

Monmouth County Clerk Main Office
Christine Giordano Hanlon
Market Yard
33 Mechanic Street
Freehold, NJ 07728

Subject: New Jersey Department of Environmental Protection Waterfront Development Individual Permit Government Official Notification – Atlantic Shores Monmouth Export Cable Corridor Geotechnical Investigation Project

Dear Ms. Clark:

This letter is to provide you with legal notification that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the development shown on the enclosed plan(s). A brief description of the proposed project follows:

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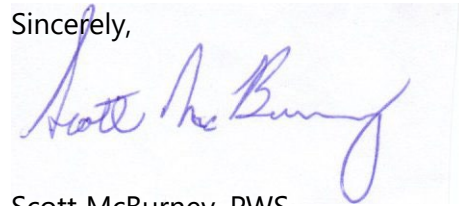
The complete permit application package can be reviewed at either the municipal clerk's office in the municipality in which the site subject to the application is located, or by appointment at the Department's Trenton Office. The Department welcomes comments and any information that you may provide concerning the proposed development and site.

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Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625

Sincerely,

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Scott McBurney, PWS

Senior Project Manager, Wetlands Technical Leader

Cc: Jennifer Daniels (Atlantic Shores)
Stephanie Wilson (Atlantic Shores)
Megan Hayes (Atlantic Shores)

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Atlantic City, NJ 08401

Certified Mail Fee \$4.40

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$3.65
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.68

Total Postage and Certified Mail Fee \$5.08

Sent To Atlantic City Department of Planning & Development

Street and Apt. No. 1301 Bacharach Boulevard

City, State, ZIP+4 Suite 506 Atlantic City, NJ 08401

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™
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<input type="checkbox"/> Return Receipt (hardcopy)	\$3.65
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.68

Total Postage and Certified Mail Fee \$5.08

Sent To Atlantic City Construction Division

Street and Apt. No. 1301 Bacharach Boulevard, Suite 101

City, State, ZIP+4 Atlantic City, NJ 08401

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.68

Total Postage and Certified Mail Fee \$5.08

Sent To Atlantic City Environmental Health Office

Street and Apt. No. 1301 Bacharach Boulevard, Suite 403,

City, State, ZIP+4 Atlantic City, NJ 08401

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.68

Total Postage and Certified Mail Fee \$5.08

Sent To Linda Gilmore

Street and Apt. No. Atlantic County Department of Regional Planning and Development

City, State, ZIP+4 1333 Atlantic Avenue Atlantic City, NJ 08401

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.68

Total Postage and Certified Mail Fee \$5.08

Sent To Commissioner Andrew W. Perini

Street and Apt. No. Parks & Environmental Advisory Commission

City, State, ZIP+4 1333 Atlantic Avenue Atlantic City, NJ 08401

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Sea Girt, NJ 08750

Certified Mail Fee \$4.40

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	\$0.00
<input type="checkbox"/> Adult Signature Required	\$	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	\$0.00

Postage \$4.27

Total Postage \$8.67

Sent To

Dawn Harriman, Borough Clerk
Borough Hall
321 Baltimore Blvd, P.O. Box 296
Sea Girt, NJ 08750

City, State, ZIP+

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Manasquan, NJ 08736

Certified Mail Fee \$4.40

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	\$0.00
<input type="checkbox"/> Adult Signature Required	\$	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	\$0.00

Postage \$4.27

Total Postage \$8.67

Sent To

Barbara Ilaria
Borough of Manasquan Clerk
201 East Main Street
Manasquan, NJ 08736

City, State, ZIP+

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal ServiceTM
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For delivery information, visit our website at www.usps.com.

Freehold, NJ 07728

Certified Mail Fee \$4.40

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	\$0.00
<input type="checkbox"/> Adult Signature Required	\$	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	\$0.00

Postage \$4.27

Total Postage and
\$8.67

Sent To

Christine Giordano Hanlon, Esq.
Market Yard, 33 Mechanic Street
Freehold, NJ 07728

Street and Apt. No.,

City, State, ZIP+

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

Newspaper Notification

The following is the text submitted to the **Asbury Park Press** to run as a legal ad at a minimum of 4 inches by 4 inches for three days (one being a Sunday). The certified proof of the newspaper notification will be forwarded when received separately from this application.

Take notice that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the proposed activity described below:

APPLICANT: Atlantic Shores Offshore Wind, LLC, Attn: Jennifer Daniels, Development Director, 1 Dock 72, Floor 7, Brooklyn, NY 11205

PROJECT NAME: Atlantic Shores Monmouth Export Cable Corridor Geotechnical Investigation Project

PROJECT DESCRIPTION: Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at five sampling locations within the Geotech Area in the Atlantic Ocean off the coast of the Borough of Sea Girt and the Borough of Manasquan, New Jersey. All sampling locations will be collected by drilling vertically from a barge using a combination of hollow stem auger and mud rotary sediment drilling techniques. Approximately 150 samples will be obtained in total from the five sampling locations. The direct impact area will be limited to the radius and depth of the borings.

PROJECT STREET ADDRESS: N/A – Atlantic Ocean

BLOCK: N/A – Atlantic Ocean

LOT: N/A – Atlantic Ocean

MUNICIPALITY: Sea Girt and Manasquan

COUNTY: Monmouth

The complete permit application package can be reviewed at either the Borough of Sea Girt or Borough of Manasquan Municipal Clerk's office or by appointment at the Department's Trenton Office. The Department welcomes comments and any information that you may provide concerning the proposed project.

Please submit your written comments within 15 calendar days to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
501 East State Street
Trenton, New Jersey 08625
(609) 777-0454


AFFIDAVIT OF PUBLICATION

Order Number : 9851986

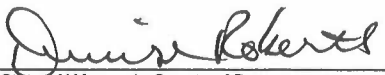
STATE OF WISCONSIN
Brown County

Of the **Asbury Park Press**, a newspaper printed in Freehold, New Jersey and published in Neptune, in State of New Jersey and Monmouth/Ocean Counties, and of general circulation in Monmouth/Ocean Counties, who being duly sworn, depose and saith that the advertisement of which the annexed is a true copy, has been published in said newspaper in the issue:

02/16/2024



Legal Clerk



Notary Public State of Wisconsin County of Brown



My commission expires

DENISE ROBERTS
Notary Public
State of Wisconsin

Take notice that an application for a Waterfront Development Individual Permit will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation (the Department) for the proposed activity described below:

APPLICANT: Atlantic Shores Offshore Wind, LLC, Attn: Jennifer Daniels, Development Director, 1 Dock 72, Floor 7, Brooklyn, NY 11205

PROJECT NAME: Atlantic Shores Raritan Bay Geotechnical Investigation Project

PROJECT DESCRIPTION: Atlantic Shores Offshore Wind, LLC ("Atlantic Shores"), a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc.; referred to herein as "EDF Offshore") and Shell New Energies US LLC ("Shell New Energies"), is proposing to evaluate the substrate at four sampling locations in Raritan Bay off the coast of Keyport, New Jersey. All four locations will include a sediment boring which will have a maximum 6-inch radius and a cone penetrometer test (CPT) which will have a maximum 2-inch radius. Both the sediment borings and CPT soundings will be advanced to a target depth of 19.7 feet. Approximately 24 samples will be obtained in total from the four sampling locations. The direct impact area will be limited to the radius and depth of the borings and CPT soundings.

PROJECT STREET ADDRESS: N/A – Raritan Bay

BLOCK: N/A – Raritan Bay

LOT: N/A – Raritan Bay

MUNICIPALITY: Keyport **COUNTY:** Monmouth

The complete permit application package can be reviewed at either the Borough of Keyport Municipal Clerk's office or by appointment at the Department's Trenton Office. The Department welcomes comments and any information that you may provide concerning the proposed project.

Please submit your written comments within 15 calendar days to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
501 East State Street
Trenton, New Jersey 08625
(609) 777-0454
(\$81.64)

APPENDIX D

Property Owner Certification Form



New Jersey Department of Environmental Protection
Land Use Management Program
Division of Land Use Regulation
PROPERTY OWNER CERTIFICATION

INSTRUCTIONS: All applicants are required to complete Sections A and B of this form. Applicants who are individual owners of record of the property upon which the activities will occur must also complete Section C.

All other persons who are required to certify to this application in accordance with N.J.A.C. 7:7-23.2(d), N.J.A.C. 7:7A-16.2(d), and N.J.A.C. 7:13-18.2(d) must complete Sections A and C.

Separate forms may be submitted for each signatory, or a single form may be submitted with all required signatures.

SECTION A. SITE INFORMATION (required)

Project Name: Atlantic Shores - Monmouth Export Cable Corridor Geotechnical Investigation Project

Applicant's Name: Jennifer Daniels, Development Director, Atlantic Shores Offshore Wind, LLC

Street Address: N/A - Project is located in the Atlantic Ocean

Municipality: Sea Girt and Manasquan County: Monmouth Zip Code: 08750, 08736

Blocks and Lots: N/A - Project is located in the Atlantic Ocean

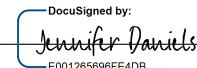
SECTION B. SIGNATURE OF APPLICANT

The undersigned applicant hereby certifies that he/she is one of the following: 1) an owner of the site on which the activity is proposed or conducted; 2) an agent designated by the site owner(s) to obtain the permit, verification, or letter of interpretation on the owner's behalf; 3) a representative of a public entity proposing an activity within a right-of-way or easement that is held or controlled by that entity or that will be appropriated by the entity under the power of eminent domain; OR 4) a person with the legal authority to perform the proposed activities.

The undersigned applicant also certifies to the following:

1. Does the application include any activities within an easement or right-of-way? ☐ Yes ☒ No
 If "Yes," has written consent from all easement or right-of-way holders in accordance with N.J.A.C. 7:7-23.2(g), 7:7A-16.2(g), and 7:13-18.2(g) been attached to this form? ☐ Yes ☐ No
2. Will any part of the project be located within property belonging to the State of New Jersey? ☒ Yes ☐ No
3. Does the application include activities on any property owned by any public agency that would be encumbered by Green Acres? ☐ Yes ☒ No
4. Does this project require a Section 106 (National Register of Historic Places) Determination as part of a federal approval? ☐ Yes ☒ No

Applicant's Name: Jennifer Daniels, Development Director Date: 2/6/2024

Applicant's Signature: 

Applicant's Name: _____ Date: _____

Applicant's Signature: _____

Applicant's Name: _____ Date: _____

Applicant's Signature: _____

Applicant's Name: _____ Date: _____

Applicant's Signature: _____

SECTION C. PROPERTY OWNER'S CERTIFICATION

All individual owners of record of the property upon which the activities will occur must certify to this application unless the applicant is a corporation, partnership, sole proprietorship, municipality, or State, Federal, or other public entity. If the applicant is a corporation, a principal executive officer of at least the level of vice president must certify below. In the case of partnerships and sole proprietorships, a general partner or the proprietor, respectively, is required to certify. For a municipality or for a State, Federal, or other public entity, the certification must be provided by either a principal executive officer or ranking elected official.

A duly authorized representative may sign this application on behalf of any individual who is required to certify provided that the authorization is made in writing and is submitted as part of this application. Please note that in lieu of a property owner's signature, a legal agreement with the current property owner may be attached to this form. Acceptable legal agreements include, but are not limited to, certificates of eminent domain and certificates of inverse condemnation. **Please note that contracts of sale are not considered an acceptable substitute for a property owner's signature.**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment. I hereby grant permission for the conduct of the proposed activities and consent to allow access to the site by representatives or agents of the Department for the purpose of conducting a site inspection(s) of the property in question.

Name of Owner/Easement Holder: _____ Date: _____

Signature: _____

Specific Block(s) and Lot(s) Owned: _____

Name of Owner/Easement Holder: _____ Date: _____

Signature: _____

Specific Block(s) and Lot(s) Owned: _____

Name of Owner/Easement Holder: _____ Date: _____

Signature: _____

Specific Block(s) and Lot(s) Owned: _____

Name of Owner/Easement Holder: _____ Date: _____

Signature: _____

Specific Block(s) and Lot(s) Owned: _____

Name of Owner/Easement Holder: _____ Date: _____

Signature: _____

Specific Block(s) and Lot(s) Owned: _____

Name of Owner/Easement Holder: _____ Date: _____

Signature: _____

Specific Block(s) and Lot(s) Owned: _____

APPENDIX E

Natural Heritage Program Request Letter



State of New Jersey
Department of Environmental Protection
Natural Heritage Data Request Form

The New Jersey Natural Heritage Program - Office of Natural Lands Management
Mail Code 501-04, P.O. Box 420, Trenton, New Jersey 08625-0420
Phone: (609) 984-1339; Fax: (609) 984-1427



Please print clearly. All sections are required.

1. Name: _____ Agency/Company: _____
Billing Address: _____ City, State, Zip: _____
Phone: _____ E-mail: _____
2. Project Name &/or Project Address: _____
Municipality(ies): _____ County(ies): _____
Block(s): _____ Lot(s): _____
Coordinates (NAD 1983 State Plane feet [6 digits] or Lat/Long):
E(x) / Longitude: _____ N(y) / Latitude: _____
3. Project Description: _____

4. Mapping Information: Please provide a map showing the project boundary (e.g., USGS quad, aerial imagery, street map, tax or parcel map with block and lot, etc.). Responses will be delayed if site locations are not clearly delineated. Alternatively, you may submit electronic GIS data (e.g., shapefile, geodatabase, *.kml/kmz, etc.) by attaching it to your email submittal.
Site Location Map Included: Yes ___ No ___
Electronic GIS Data Files Included: Yes ___ No ___
USGS quad name (if known): _____
5. Riparian Zone or FHACA Is this request submitted as part of a Riparian Zone width determination (e.g., Flood Hazard Area Control Act application N.J.A.C. 7:13)? Yes ___ No ___
6. Acknowledgement & Signature Any material supplied by the Office of Natural Lands Management will not be published without crediting the Natural Heritage Database as the source of the material. It is understood that there will be a charge of \$70.00 per hour for the services requested. An invoice will be sent with the request response. **Please pay by check or money order (credit card not accepted) payable to: "DEP – Office of Natural Lands Management" (please do not reference "NJ State Treasury").**
Signed: _____ Date: _____

Time Frame for Response:

Data requests are processed in the order in which they are received; PLEASE ALLOW AT LEAST 30 DAYS FOR A RESPONSE.
All responses will be emailed to the address provided above unless other arrangements are specifically requested.

Please Submit Completed Forms And Attachments To The Following Email Address: NATLANDS@DEP.NJ.GOV You may also fax your data request to: (609) 984-1427. If you would like to send in your data request via regular mail, please use the following address:

NJDEP Office of Natural Lands Management
Mail Code 501-04, PO Box 420
Trenton, NJ 08625-0420

FOR OFFICE USE ONLY

Item Code: REG ___ ST ___ NC ___ Hrs: _____
Project Code: 2 - Inv.#: _____

Revised February 2022