



**17. DIRECTIONS TO THE SITE**

Indian River Flood Shoal: Waterway is accessible by the Atlantic Ocean to the east, the Indian River Bay to the west, and Rehoboth Bay to north. Middle and Burton Island Shoals: Waterway accessible by the Atlantic Ocean to the east, Indian River Bay to the south, and Rehoboth Bay to the north.

Directions to North Indian River Inlet Beach, Delaware Seashore State Park (North Beach): From Dover, Delaware, take 113/Route 1 south for a distance of approximately 47 miles. Bear right onto Inlet Road prior to the Charles W. Cullen Memorial (Inlet) Bridge (0.6 mi), turn left into the North Inlet Day Area Parking Lot.

**18. Nature of Activity (Description of project, include all features)**

DNREC is seeking an Individual Permit to repair the berm and dune system at the North Indian River Inlet Beach (North Beach) as critical infrastructure like the Charles W. Cullen Memorial (Inlet) Bridge and Delaware State Route-1 (SR-1) are in imminent risk of failure due to severe coastal erosion.

The project aims to hydraulically maintenance dredge up to 800,000 cubic yards of material from three potential borrow sites: the Indian River Inlet Flood Shoal, Middle Island Shoal, and/or Burton Island Shoal. Dredged material will be transported via pipeline to the beneficial use placement site at North Beach. Front-end loaders and bulldozers will be used to spread and grade dredged material to reconstruct the berm and dune system based on the approved plans. The beneficial placement of dredged material will begin at the north jetty and extend northward for +/- 5,200 linear feet. This project will restore the dune system at North Beach to improve coastal resiliency and protect critical infrastructure and habitat from future storm events.

**19. Project Purpose (Describe the reason or purpose of the project, see instructions)**

North Beach has a long history of erosion due to the interruption of the northward flow of sand caused by the construction of the inlet jetties. This erosion has made critical infrastructure, such as SR-1 and the Inlet Bridge, more vulnerable to storm damages. Since 1990, the annual pumping of the sand bypass system helped mitigate erosion at North Beach and was the primary maintenance activity; however in 2020 the system became inoperable. Since then, DNREC has judiciously added sand to North Beach via truck haul which has been ineffective for mitigating risk and can no longer keep up with the current rate of erosion. In response to the inadequate maintenance, the dune system at North Beach is severely eroded and prone to scour from direct wave energy on a regular high tide. North Beach needs to be rebuilt with a large volume of sand that is delivered rapidly. We expect to construction during November 2024 to February 28, 2025.

**USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED****20. Reason(s) for Discharge**

DNREC is seeking EMERGENCY AUTHORIZATION to restore the berm and dune system at North Beach as critical infrastructure like Delaware State Route-1 and the Charles W. Cullen Memorial (Inlet) Bridge are in imminent risk of failure due to severe coastal erosion. The Project aims to hydraulically dredge up to 800,000 cubic yards of material from three potential borrow sites: 1) the Indian River Inlet Flood Shoal, 2) Middle Island Shoal, and/or 3) Burton Island Shoal for beneficial placement onto North Beach to rebuild over 5,200 linear feet of shoreline that would protect critical infrastructure from storm surge. Current conditions are such that a minor storm surge or swell event is very likely to breach the dune, and truck haul sand is continuously being added as a temporary solution for erosion control. See Permit Supplement for additional details.

**21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:**

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
up to 800,000 cy dredged material		

**22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)**

Acres  
or  
Linear Feet +/-5,200

**23. Description of Avoidance, Minimization, and Compensation (see instructions)**

The dredge pipeline will be submerged and anchored to the bottom surface in areas crossing any navigable channels. The dredge pipeline will be clearly marked and kept in good condition in all other areas – including any nearshore or upland alignments. Proper construction oversight via inspections of dredging operations will be performed to document conditions and verify that best operational practices are being employed to prevent excessive turbidity. Compensatory mitigation should not be required as any adverse impacts would be temporary and localized to the project area.

24. Is Any Portion of the Work Already Complete?  Yes  No IF YES, DESCRIBE THE COMPLETED WORK

The Indian River Inlet flood shoal area has been previously dredged, in whole or in part, on seven occasions since 1970 for the purposes of obtaining sandy beachfill to nourish North Beach or for filling in deep scour holes. See the Permit Supplement for more details.

The most recent project to maintenance dredge the Indian River Inlet flood shoal and then beneficially use all dredged material to rebuild North Beach occurred in 2013 by the US Army Corps of Engineers under an Emergency Action following Hurricane Sandy. Since then 100% of the sediment dredged has been recovered in the Inlet flood shoal.

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- **DNREC Division of Parks & Recreation 89 Kings Highway**

City - **Dover** State - **DE** Zip - **19901**

b. Address- **United States of America Department of Interior**

City - **Washington** State - **DC** Zip - **20242**

c. Address- **South Shores Homeowners Assoc. 35370 Atlantic Ave**

City - **Millville** State - **DE** Zip - **19967**

d. Address- **Pot-Nets Communities-CCDS LLC, 34026 Anna's Way Ste 1**

City - **Millsboro** State - **DE** Zip - **19966**

e. Address-

City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
DNREC	401 WQ Cert		2024-09-05	pending	
DNREC	CZM Fed Con review		2024-08-29	pending	
DNREC	SHPO, 2nd review		2024-09-16	pending	
USACE	Section 408 review		2024-09-18	pending	

\* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

\_\_\_\_\_  
SIGNATURE OF APPLICANT      2024-09-17      DATE      \_\_\_\_\_  
SIGNATURE OF AGENT      2024-09-17      DATE

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.