# NJDEP Division of Land Resource Protection Living Shoreline & Nature Based Solution Permitting RAE Conference October 2021

# NJDEP's Division of Land Resource Protection

- The NJDEP's Division of Land Resource Protection regulates development, including living shorelines and other nature-based solutions, within areas governed by the following regulations:
  - Coastal Zone Management (CZM) Rules at N.J.A.C. 7:7
    - CAFRA, Waterfront Development, Mapped Coastal Wetlands
  - Flood Hazard Area Control Act (FHACA) Rules at N.J.A.C. 7:13
    - Flood Hazard Areas, Riparian Zones
  - Freshwater Wetlands Protection Act (FWPA) Rules at N.J.A.C. 7:7A
    - Freshwater Wetlands, Transition Areas, State Open Waters, Unmapped Coastal Wetlands



### Pre-Sandy Permitting Constraints



### Revised Coastal Rules

June 2013 – Emergency adoption of New Coastal Zone Management Rules

- Revisions made to Coastal Regulations to facilitate the establishment of living shorelines:
  - The general permit for habitat creation and enhancement was modified to include living shoreline activities (General Permit #24 - N.J.A.C. 7:7-6.24)
  - A new general water area rule was added for living shorelines (N.J.A.C. 7:7-12.23)



### **General Permit 24**

### Living shoreline activities shall comply with the following:

- Generally, <1 acre of disturbance below the mean high water but can be larger if the applicant is a county, state or federal agency that demonstrates the project size is necessary to satisfy goals.
- The project shall disturb the minimum amount of special areas, as defined by N.J.A.C. 7:7-9, necessary to successfully implement the project plan.
- Shall not exceed the footprint of the shoreline as it appeared on the applicable Tidelands Map adopted by the Tidelands Resource Council (base map photography dated 1977/1978).
  - Except for a structural component of the project intended to reduce wave energy



# General Permit 24 at N.J.A.C. 7:7-6.24

General Permit 24 for habit creation, restoration, enhancement, and living shoreline activities (covers work in CAFRA, Waterfront Development, and Mapped Coastal Wetlands)



#### Incentive = no application fee for GP24



Requires the living shoreline/nature-based solutions plan be designed and/or sponsored by the DEP, USFWS, NRCS, USACE, USEPA, or NOAA's Restoration Center or implemented by a college or university for research purposes. Sponsorship of project must be provided in writing.



Living shorelines/nature-based solutions projects must be designed to address erosion and protect, restore, or enhance a habitat.

 Must demonstrate that the project will maintain values/functions of the ecosystem and have a reasonable likelihood of success.

# CAFRA, Waterfront Development & Coastal Wetlands Individual Permits for Living Shorelines

- Living shorelines/nature-based solutions projects that do not meet the requirements of the General Permit 24 will require an Individual Permit.
  - Compliance with the Living Shorelines rule at N.J.A.C. 7:7-12.23
  - Other applicable CZM regulations such as the Shellfish Habitat rule at N.J.A.C. 7:7-9.2, the Submerged Vegetation Habitat rule at N.J.A.C. 7:7-9.6, the Wetlands rule at N.J.A.C. 7:7-9.27, the Filling rule at N.J.A.C. 7:7-12.11, and the Coastal Engineering rule at N.J.A.C. 7:7-15.11.

# Bureau of Tidelands Management

- A Tidelands Instrument is required for living shorelines/nature-based solutions projects in areas formerly flowed by the tide or areas currently below the mean high water line.
- The application for a new Tidelands license should be submitted simultaneously with the application being submitted to the Division for a permit.
- makes Tidelands license fee is \$100/year for 7 years.

Tidal Marsh Restoration Projects

Marsh Edge Erosion



Tidal Marsh Restoration Projects

 Loss of Elevation of the Marsh Platform





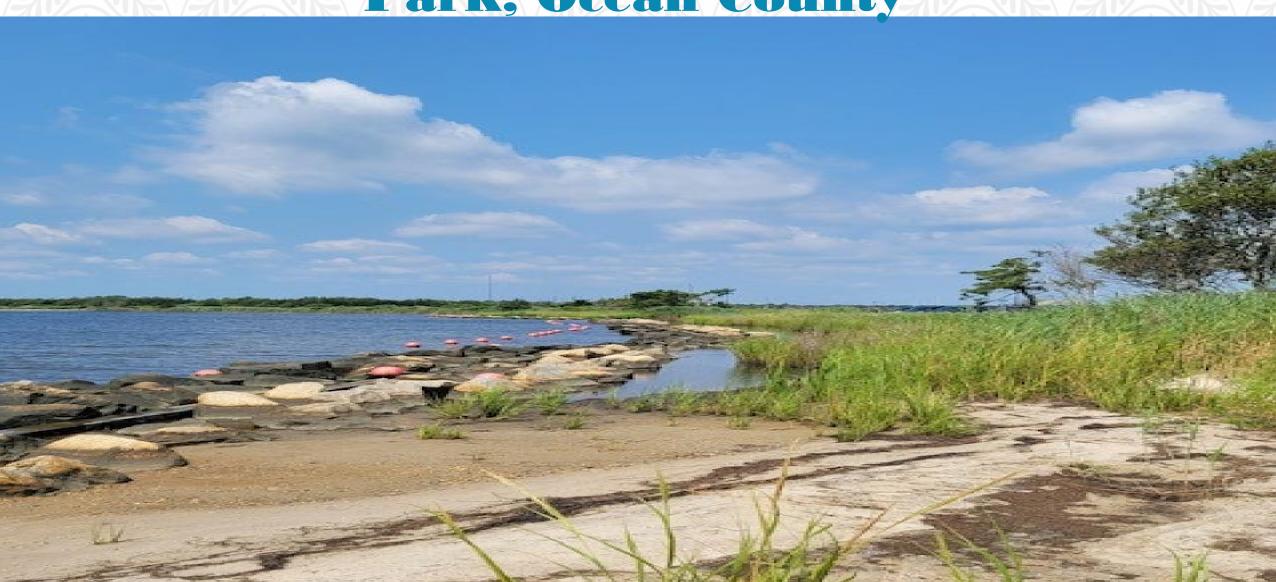
# Berkeley Island – Ocean County Traditional Rock Sill Shoreline Protection

♦ Vertical

Sun Jul 12 2020

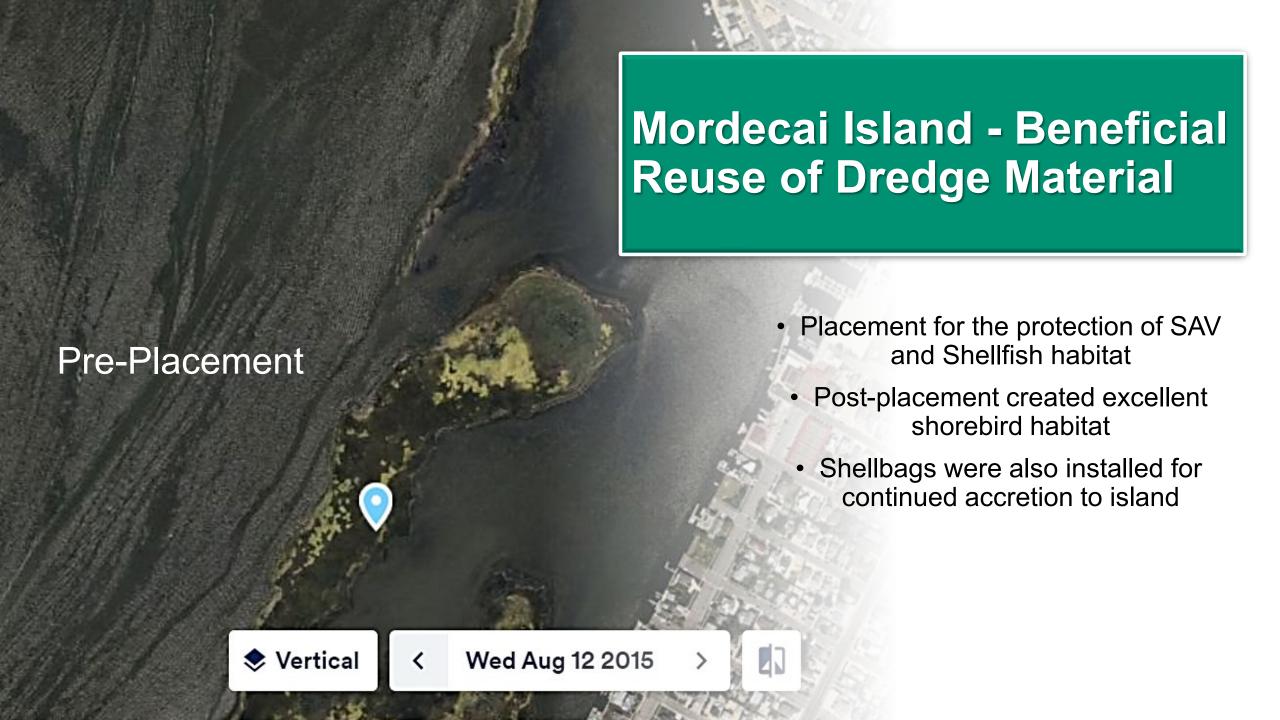


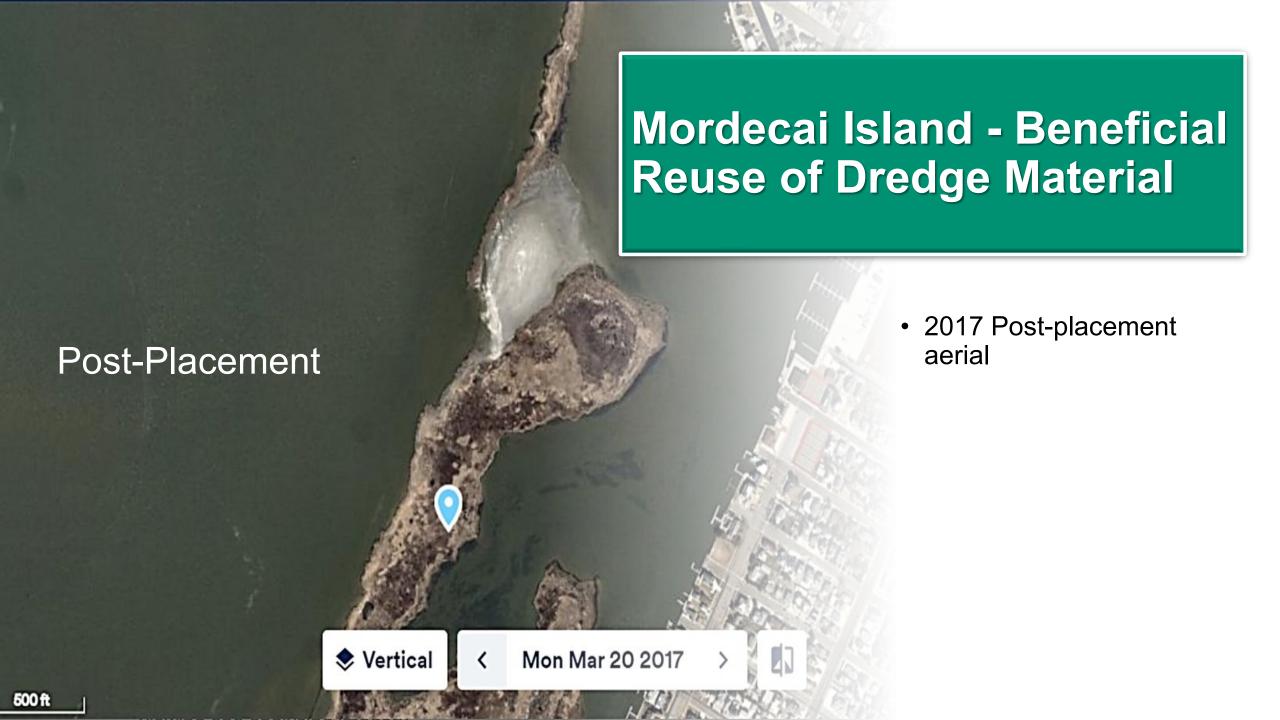
### Berkely Island County Park, Ocean County

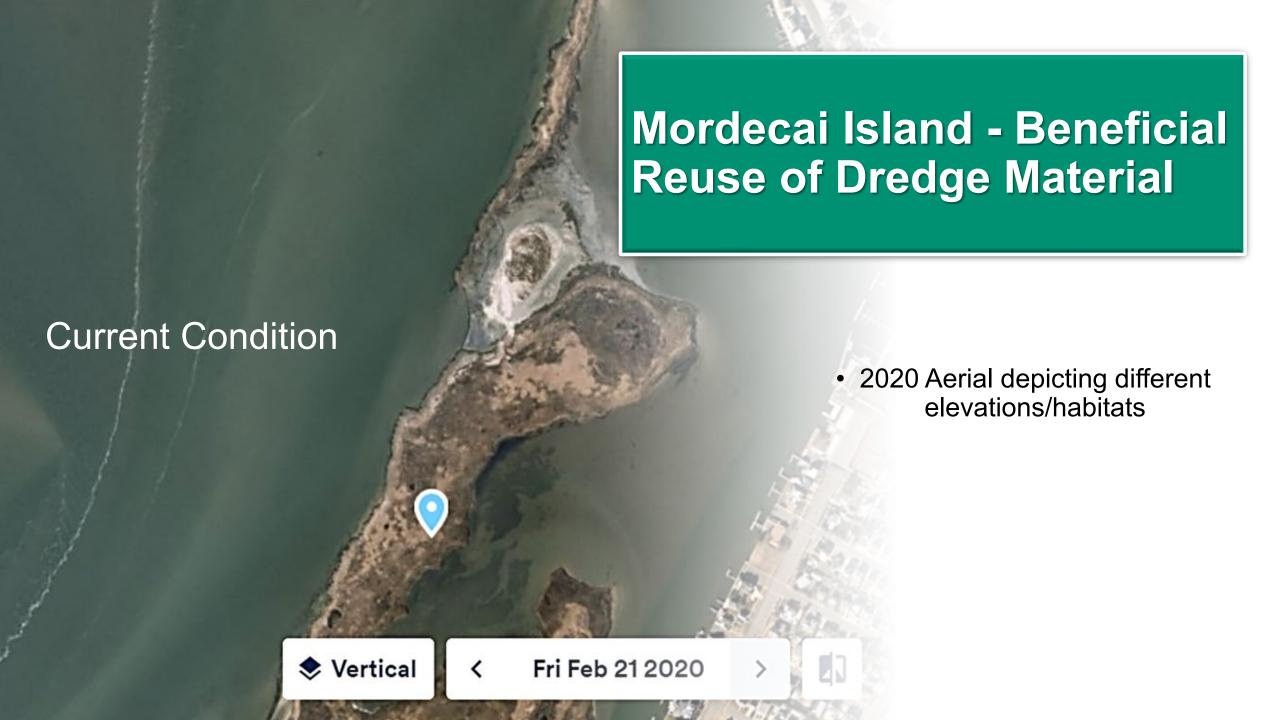


## Gandy's Beach Oyster Castles









### Section 1122 – Barnegat Bay



### A SEDIMENT PROGRESSION: FROM CONFINEMENT TO IN-WATER CREATION

















Section 1122 – Island Creation



Section 1122 – Nearshore Placement





**Great Flats** 











# **Application Information**

- All of the Division's application materials, such as the application form, fee schedule, and checklists for each type of available permit, can be found on the Division's website at <a href="http://www.nj.gov/dep/landuse/">http://www.nj.gov/dep/landuse/</a>
- For additional Division permitting inquiries related to living shorelines or nature-based solutions projects, please contact Lindsey Davis or Kara Turner by phone at (609)633-2289 or by email at <a href="mailto:Lindsey.Davis@dep.nj.gov">Lindsey.Davis@dep.nj.gov</a> or <a href="mailto:Kara.Turner@dep.nj.gov">Kara.Turner@dep.nj.gov</a>



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