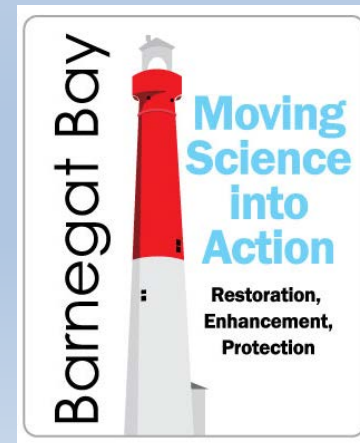


Barnegat Bay Restoration Enhancement and Protection Strategy

Welcome and Perspective

- Transition and Management Support
- Barnegat Bay Partnership Comprehensive Conservation and Management Plan (CCMP)
- Amended contract with USGS to complete modeling
- Contract with NJ Sea Grant for Model Evaluation Group (MEG)
- 9th Barnegat Bay Blitz
- \$10 M in Grant Funding – Request for Proposals

DRAFT AND DELIBERATIVE



Barnegat Bay Restoration Enhancement and Protection Strategy

RELEASE

- The Barnegat Bay Restoration, Enhancement, and Protection Strategy (BB REP Strategy) was released on October 4, 2017.
- Priorities of Barnegat Bay advocates:
 - Development of a Nutrient Standard;
 - Establish a nutrient based Total maximum Daily Load (TMDL); and
 - Funding restoration and planning projects to address water quality & ecological health of the bay.
- Input from Stakeholders:
 - Ensure municipalities are in compliance with existing MS4 requirements;
 - Address back bay flooding, wetlands loss and resiliency; and
 - Control Lakewood development.



Barnegat Bay Restoration Enhancement and Protection Strategy

COMPONENTS

Restoration

Actions needed to return Barnegat Bay to a nonimpaired status.

Enhancement

Actions need to reduce the spatial extent of current impairments, improve areas “on the edge” of impairment and/or enhance the use of Barnegat Bay.

Protection

Actions needed to preserve and safeguard pristine, unimpaired waters of Barnegat Bay from future degradation.

Assessment and Monitoring

Monitoring to determine the efficacy of actions, re-evaluation to gauge progress and make modifications to the BB REP Strategy as needed.

Barnegat Bay Restoration Enhancement and Protection Strategy

RESTORATION STRATEGY

- **Developing a Nutrient Standard** (*ongoing, long term*)
- **Nutrient Total Maximum Daily Load (TMDL)** (*ongoing, long term*)
- **Additional Measures Implemented through a Total Maximum Daily Load (TMDL)** (*long term*)
 - Adoption revised Stormwater Control Ordinance for New Development and Redevelopment
 - Expanded Stormwater Facility Mapping
 - Establish a Schedule to Retrofit Basins to Address Water Quality
 - Illicit Connection Identification and Elimination
- **Implementation of Metedeconk Watershed Restoration Plan** (*ongoing, short term*)
- **Toms River Basin Watershed Restoration Plan** (*mid-term*)
- **Develop Watershed Restoration Plans for Barnegat Bay Tributaries** (*long term*)
- **Identify and Inventory Stormwater Basins in Need of Retrofit: A pilot program** (*short term*)

Barnegat Bay Restoration Enhancement and Protection Strategy

ENHANCEMENT STRATEGY

- **Sea Nettle Management Program** (*short term*)
- **Municipal Compliance Assistance Program** (*short term*)
- **Supplemental Environmental Projects** (*ongoing, mid-term*)
- **Continue Barnegat Bay Education and Outreach Efforts** (*ongoing, short term*)
 - *Barnegat Bay Blitz*
 - *Barnegat Bay Rain Barrel Challenge*
- **Develop and Implement Stewardship Programs (Sustainable Jersey, Bay-Friendly)** (*short term*)
- **Shellfish Restoration for Shellfish Stock Management and Nutrient Load Reductions** (*mid-term*)
- **Submerged Aquatic Vegetation Restoration** (*mid-term*)
- **Reduction of Pollutants - Clean Marinas Program** (*short term*)

Barnegat Bay Restoration Enhancement and Protection Strategy

PROTECTION STRATEGY

- **Closure of Oyster Creek Nuclear Generating Station (OCNGS) scheduled for October 2018** (*ongoing, mid-term*)
- **Preserve and Restore Wetlands to Provide Nutrient Reductions and Resiliency** (*mid-term*)
- **Soil Restoration Ordinance** (*mid-term*)
- **Protect Environmentally Sensitive Areas in the Bay** (*Sedge Island Marine Conservation Zone*) (*ongoing, short term*)
- **Reduce Water Craft Impacts** (*ongoing, short-term*)



Barnegat Bay Restoration Enhancement and Protection Strategy

ASSESSMENT AND EFFECTIVENESS MONITORING

- **Develop Biological Monitoring Plan Pre & Post Closure of Oyster Creek Nuclear Generating Station (OCNGS) (*mid-term*)**
- **Toms River Stormwater Study to Evaluate the Effect of Fertilizer Legislation adopted in 2011 (*mid-term*)**
- **Develop Biological Indices for Barnegat Bay and Establish Routine Biological Monitoring Program (*ongoing, short term*)**
- **Continue Long Term Water Quality Monitoring Program – 2x monthly monitoring during growing season / 31 trib and bay stations (*ongoing, long term*)**

Barnegat Bay Restoration Enhancement and Protection Strategy

IMPLEMENTING THE BB REP STRATEGY

Internal partnerships critical to success.

Internal NJDEP Partners include: Division of Science Research and Environmental Health; Division of Water Quality; Division of Natural and Historic Resources; Division of Land Use Management; and Compliance and Enforcement.

Examples of Roles for Internal Partners:

- Barnegat Bay Blitz
- Municipal Stormwater Audit Program
- Municipal Compliance Assistance Stewardship Program
- MS4 Program- Additional Measures TMDL
- Sedge Island Marine Conservation Zone
- Shellfish and SAV restoration
- Living Shorelines
- Pre and Post-Closure Monitoring of OCNGS

Barnegat Bay Restoration Enhancement and Protection Strategy

IMPLEMENTING THE BB REP STRATEGY

External partnerships critical to success

External Partners include:

- Ocean County
- Barnegat Bay Watershed Municipalities
- USEPA
- Save Barnegat Bay
- Barnegat Bay Partnership
- Rutgers University
- Stockton University
- American Littoral Society
- NJ Sea Grant Consortium

Roles for External Partners:

- Develop and Implement Watershed Restoration Plans
- Municipal Assistance
- Enhanced Mapping
- Outreach, Education and Stewardship
- Research and Monitoring
- Source Tracking
- Living Shorelines/ Wetlands Restoration
- Shellfish and SAV Restoration