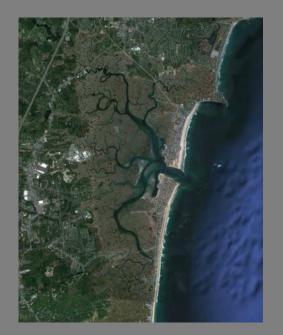


Funded by the NH DES Coastal Program March 2015-June 2016

Overall goal: Increase <u>resilience</u> of the sand dune system in Hampton and Seabrook NH \setminus



the ability to "bounce back" after hazardous events such as hurricanes, coastal storms, and flooding rather than simply reacting to impacts (NOAA)

Goal 1: Build and strengthen dunes

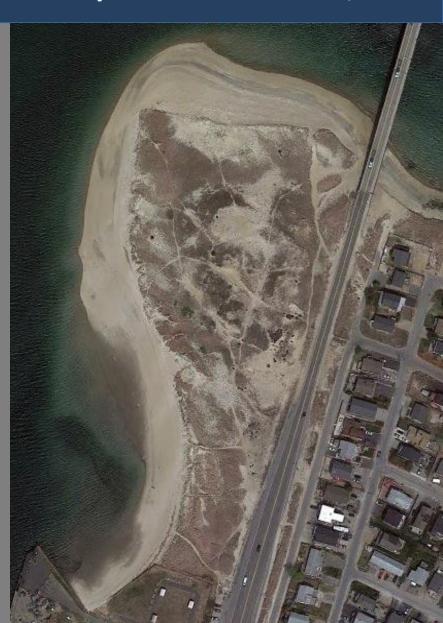
- Plant diverse, native vegetation
- Decrease fragmentation
- Trap sand

Preserving dune vegetation is critical to preserving the dunes themselves!



Goal 2: Allow dunes to ecologically develop

- Minimize human disturbance
 - Outreach efforts
 - Signs
 - Symbolic fencing



Goal 3: Engage the Community

- Community meetings
- School visits classroom, field and greenhouse
- Volunteer field efforts
- Today!

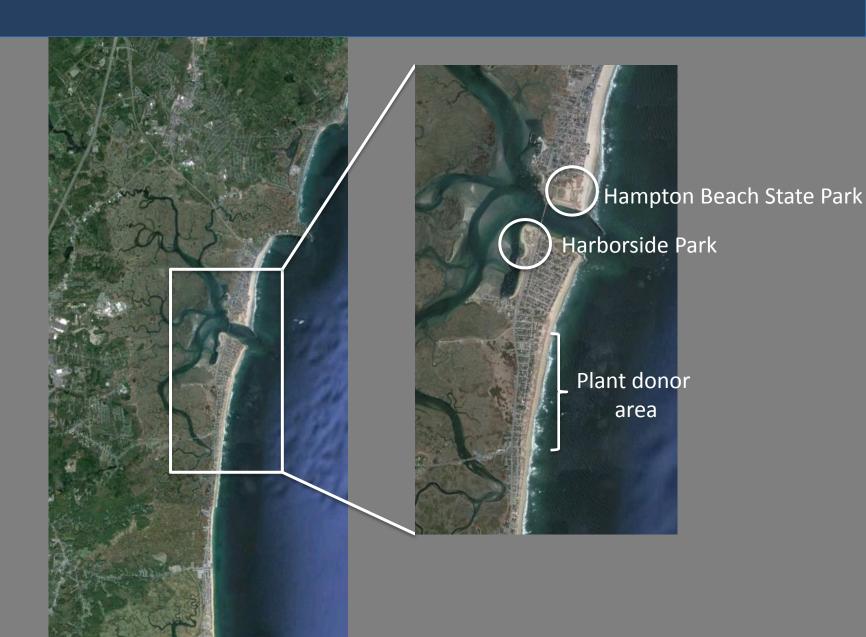


Goal 4: Build a program in NH for future projects that will directly protect property and lives





Project locations



Restoration Planning

State and Federal Agencies

- NH DES Coastal Program
- NH Division of Parks and Recreation
- NH Natural Heritage Bureau
- NH Fish and Game
- NH Division of Historical Resources
- NH DES Wetlands Bureau
- Natural Resources Conservation Service
- US Fish and Wildlife Service

Community Partners

- Seabrook Conservation Commission
- Hampton Conservation Commission
- Seabrook Beach Village District
- Coastal Research Volunteers
- Community volunteers

Who else should we be talking to?

Sand Dune Restoration Plan

Hampton Beach State Park, Hampton Harbor Wildlife Management Area, Harborside Park and Town of Seabrook Dunes

Hampton and Seabrook, NH

Prepared by
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Dept. of Natural Resources and the Environment
University of New Hampshire

Gregg Moore Jackson Estuarine Laboratory Dept. of Biological Sciences University of New Hampshire

June 15, 2015

Project Activities at Hampton Beach State Park

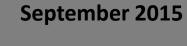
- Common Garden
- Revegetate walkways
- Informational signs
- Symbolic fencing





Common Garden at Hampton Beach State Park

April 2015







Seabrook Plant Donor Site

- Harvest donor plants
- Transplant to other sites
- Grow plants out in CommonGarden



Project Activities at Harborside Park

- Revegetate walkways
- Informational signs
- Symbolic fencing





Project Activities to date

- Technical review committee
- Planning and permitting
- Restoration plan
- Community presentations
- Common Garden
 - Volunteer planting efforts
 - Monitoring
- Dune profiles and monitoring
- Botanical Surveys





Today's Plan

- Harvest plants form the garden
- Site walk around the dunes
- Plant in degraded areas



Upcoming Volunteer Activities

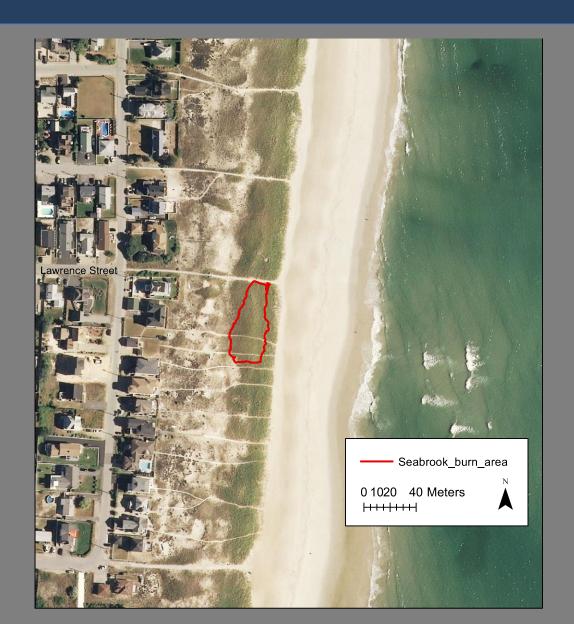
- Seabrook Plant Harvest
 Thursday, Nov. 5th, 9-11:00 am
- Dune Planting Effort
 Saturday, Nov. 7th, 8:30-11am



Waves crashing on shore Unprotected dunes need help Rescued by beach grass.

Henry A. 5th grade

Dune fire, Seabrook, NH



Dune fire, Seabrook, NH

August 5, 2015



September 29, 2015



Draft Dune Vegetation Harvesting Protocol

- Plants will be removed from areas of high density
- The newest shoots will not be selected for harvest
- No more than 10% of the population will be removed in a given area
- Narrow spades will be used to uproot plants to maintain the integrity of the root structure
- Spades will be positioned at the midpoint between two shoots so as to sever the rhizome at the midpoint and leave the roots intact
- Soil/sand will be shaken from roots and rhizomes and replaced to donor site
- Plants will be immediately stored in bags to limit desiccation to roots and leaves
- Plants will be stored in the cold room at the UNH Jackson Estuarine Laboratory until transplantation