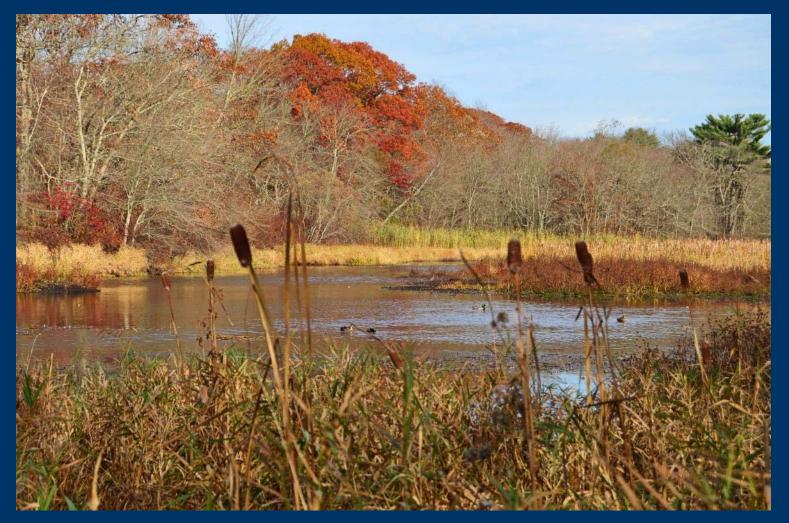
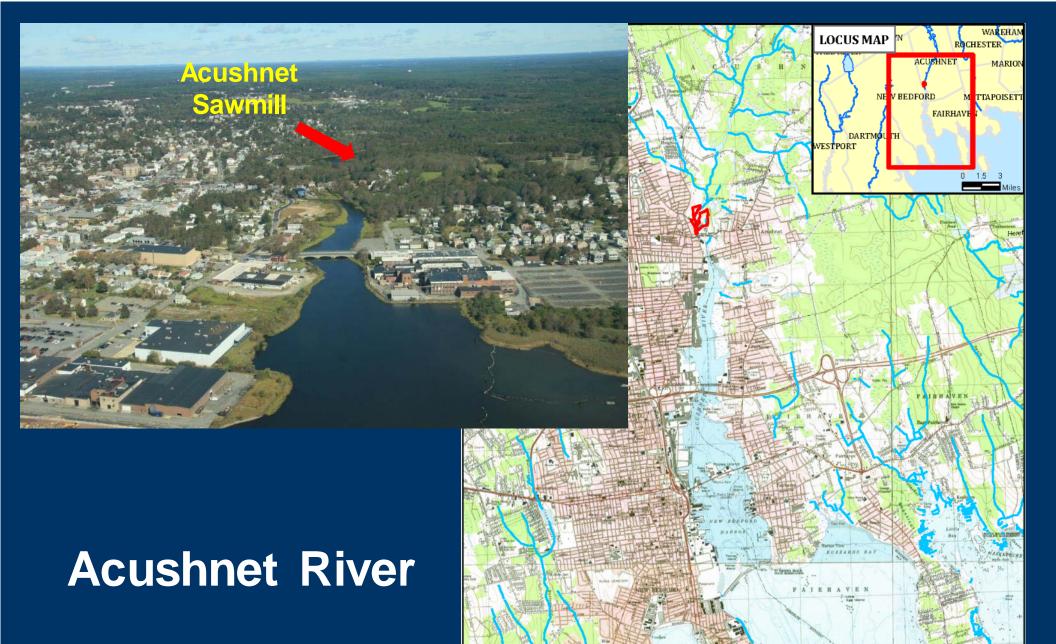
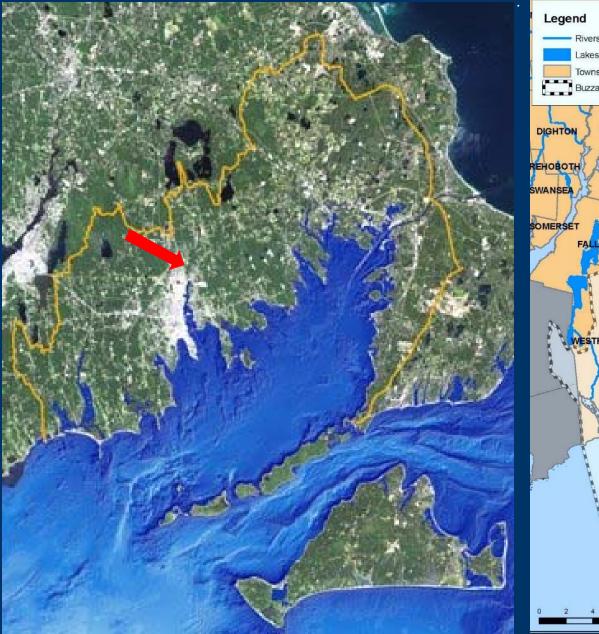
Acushnet Sawmill Ecological Restoration Project



Sara N. da Silva Quintal, Restoration Ecologist Buzzards Bay Coalition February 27, 2014



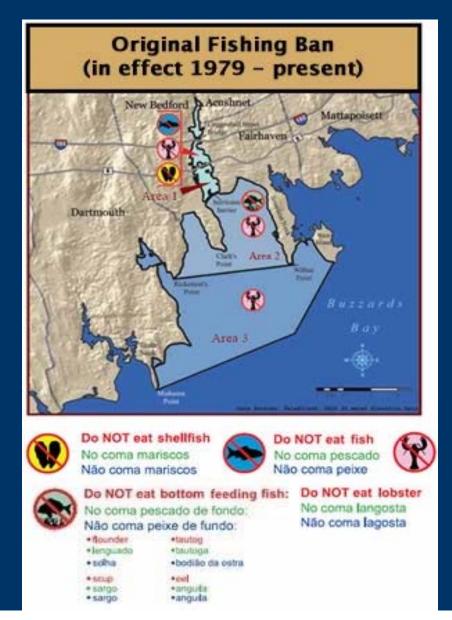
Buzzards Bay Watershed





Acushnet River and New Bedford Harbor: Centuries of Impacts

- Dams (1738 1st dam at head of river)
- Filling of Wetlands (1800's 1900's)
- Industry (whaling, mills, metalwork)
- Sewage
- Industrial Waste (metals, PCBs) New Bedford Harbor declared a Superfund site in 1982 for PCB's
- On-going PCB cleanup
- Combined Sewer Overflows
- Stormwater Runoff





RESTORING RIVER and BAY HEALTH

Acushnet River Reserve

Protect undeveloped land along the river

Create opportunities for restoration (key parcels)

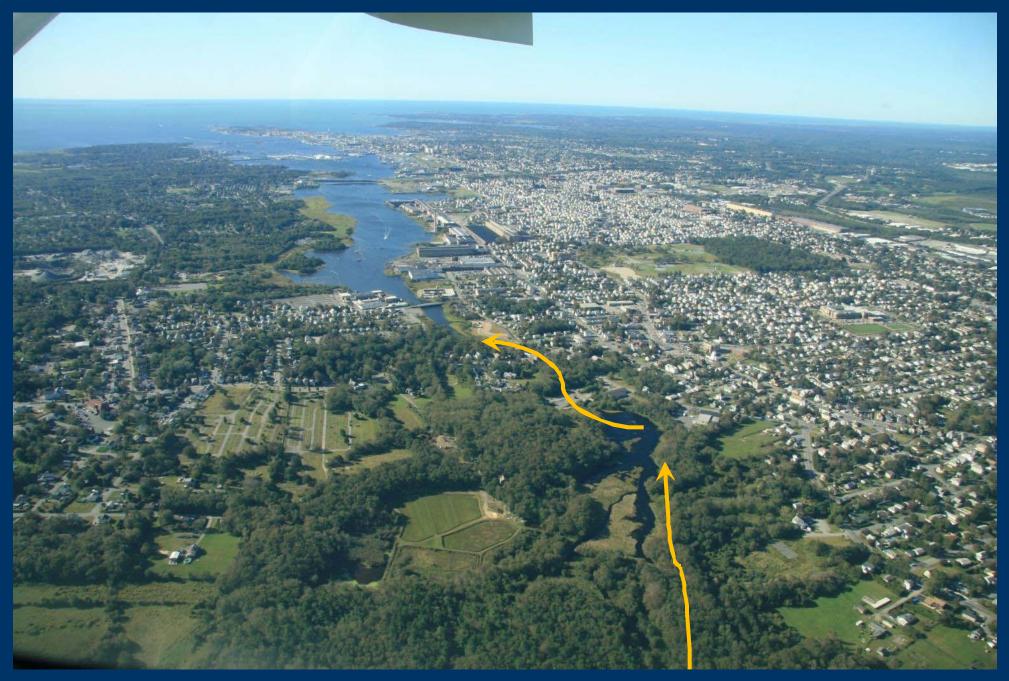
Restore ecological functions and water quality

Engage the public along the way...

Acushnet River Trail

Collaborative to connect open space along the River

Lower Acushnet River



Undergoing Restoration

...restoring natural filters and links to the Bay



History of the Acushnet Sawmill Property

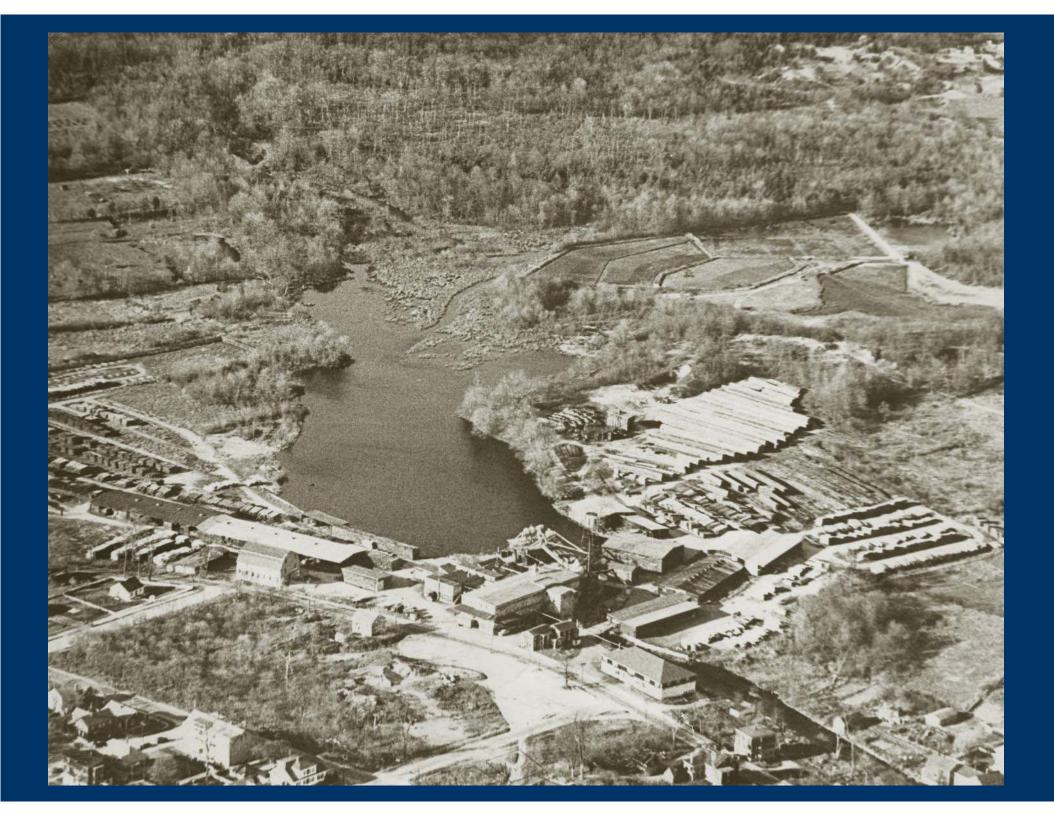


Previous owners include

- Stephen Taber
- Edward Wing
- William Rotch, Jr.
- Charles W. Morgan
- Jonathan P. Lund
- Hawes Family (1867 2007)

- **1738:** 1st dam built across the river
- 1700's: Sawmill and grist mill
- 1800's: Wool-carding mill, Acushnet Paper Mill & Cotton Factory
- 1886 late 1980's:
 - Acushnet Saw Mills Co.
- Light industrial through 2011 (e.g., Hardware store, Roofing company)





Restoration of the Former Acushnet Sawmill

- Purchased by Buzzards Bay Coalition in Spring 2007
- 2007-early 2008: Fish passage project led by NOAA





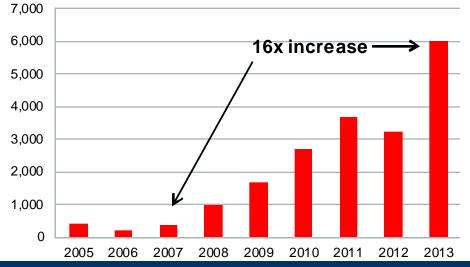
April 2007

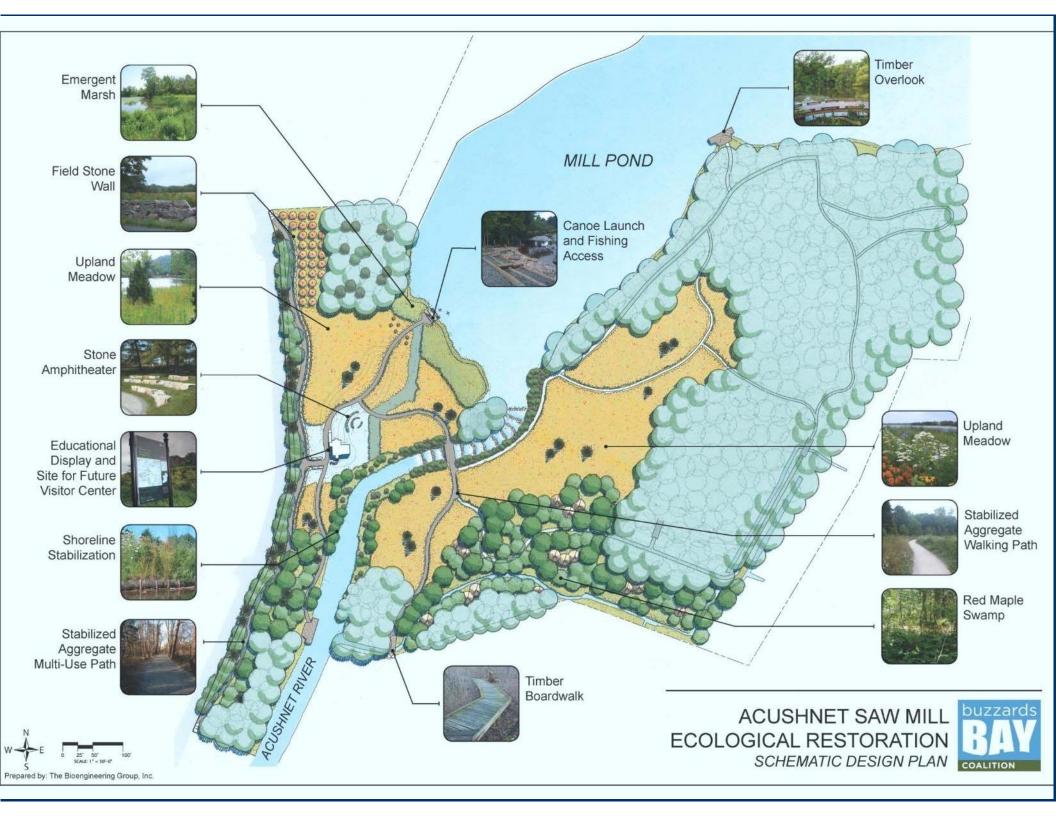
- Natural rock ramp fishway installed
- Herring numbers continue to increase:

2007: 381 fish 2013: 6,033 fish



Acushnet River Herring Returns







ACUSHNET SAW MILL: EXISTING VIEW FROM MILL ROAD



ACUSHNET SAW MILL ENTRY: AFTER



ACUSHNET RIVER STREAMBANK: EXISTING CONDITIONS

Permitting (2013)

- MA Historical Commission
- MEPA Expanded Environmental Notification Form
- WPA Order of Conditions
- Chap. 401 Water Quality Certificate
- Chap. 91 Waterways License
- US Army Corps 404 Permit

Funding:

 New Bedford Harbor Trustee Council (primarily)

Design Team:

- EA Engineering
- Bioengineering Group



ACUSHNET RIVER STREAMBANK RESTORATION: AFTER 3 YEARS

Demolition:

- industrial buildings
- pavement
- Concrete

Demo Partner: City of New Bedford's Department of Public Infrastructure





Salvage:

- small office building
- granite blocks
- lumber



Building Move

Building Move



Building Move













VISITOR CENTER-Community Service Learning Project

- Architectural Drafting
- Carpentry
- Electrical
- Plumbing

Old Colony Regional Vocational Technical H.S.

Greater New Bedford Vocational Technical H.S.







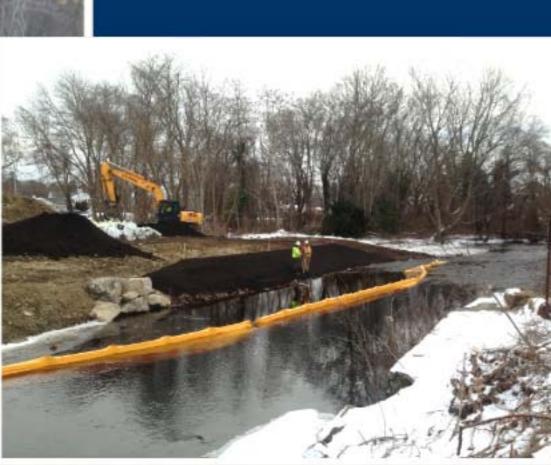
Wetland Restoration Underway

- river bank restoration
- wetland expansion
- trails and overlooks

Construction Contractor:

SumCo Eco-Contracting ightarrow

Time of Year Restriction March 1 – June 30







Wetland Restoration Underway

- river bank restoration
- wetland expansion
- trails and overlooks



Wetland Restoration Underway

- river bank restoration
- wetland expansion
- trails and overlooks





FEBRUARY 2014



FEBRUARY 2014













North Overlook: Installation of Helical Piles

Sourcing lumber on-site (selective clearing of invasive trees) Milled by Gurney's Sawmill, E. Freetown



Sourcing lumber on-site (selective clearing of invasive trees) Milled by Gurney's Sawmill, E. Freetown





Sourcing lumber on-site (selective clearing of invasive trees) Milled by Gurney's Sawmill, E. Freetown



- Boardwalks
- Canoe Launch Steps

Project Partners

- New Bedford Harbor Trustee Council
- NOAA Restoration Center
- City of New Bedford
 Department of Public Infrastructure
- Town of Acushnet
- Old Colony Regional Voc. Tech. H.S.
- Greater New Bedford Voc. Tech. H.S.
- M A Department of Marine Fisheries
- M A Department of Conservation
 & Recreation
- Buzzards Bay Garden Club
- Gurney's Sawmill

















Grand Opening in Summer 2014!



Sara N. da Silva Quintal, Project Manager quintal@savebuzzardsbay.org 508-999-6363 x225