Commonwealth of Massachusetts Executive Office of Environmental Affairs ■ MEPA Office

Chapter 91 License

Revised 10/99

Environmental ENF Notification Form

For Office Use Only Executive Office of Environmental Affairs

EOEA No.: 12774 MEPA Analyst**B**; 11 GA9 E

Phone: 617-626-10 25

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

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Project Name:	
Bridge Creek Salt Marsh Restoration Pr	oject
Street: Route 6A and Old Colony Railroad	
Municipality: Barnstable	Watershed: Cape Cod
Universal Tranverse Mercator Coordinates:	Latitude: 70° 21' 51.07" West
19 Meters NAD27	Longitude: 41° 42' 0.50" North
386488.0 East 4617169.8 North	
Estimated commencement date: March 2003	Estimated completion date: December 2003
Approximate cost: \$550,000	Status of project design: 50%complete
Proponent: Town of Barnstable, Department	of Public Works
Street: Town Hall, 367 Main Street, Third Floor	
Municipality: Hyannis	State: MA Zip Code: 02601
Name of Contact Person From Whom Copies of this ENF May Be Obtained:	
Steve Block, Wetland Scientist	
Firm/Agency:Mass. Wetlands Restoration Pro	ogram Street: One Winter Street, 5th Floor
Municipality: Boston	State: MA Zip Code: 02108
Phone: (617) 292-5743 Fax: (617) 29	92-5850 E-mail: steve.block@state.ma.us
Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)? Yes Has this project been filed with MEPA before? Yes (EOEA No) Has any project on this site been filed with MEPA before?	
	Yes (EOEA No) ⊠No
Is this an Expanded ENF (see 301 CMR 11.05(7)) reque a Single EIR? (see 301 CMR 11.06(8)) a Special Review Procedure? (see 301 CMR 11.09) a Waiver of mandatory EIR? (see 301 CMR 11.11) a Phase I Waiver? (see 301 CMR 11.11)	esting:
Identify any financial assistance or land transfer for the agency name and the amount of funding or la EOEA Wetlands Restoration Program (\$50,000 grant) (donation to be determined)	ind area (in acres):
Are you requesting coordinated review with any o ☐Yes(Specify:) ☑No	ther federal, state, regional, or local agency?
List Local or Federal Permits and Approvals: Permit Order of Conditions Barnstable	Conservation Commission

DEP - Waterways Program

Comment period is limited. For information call 617-626-1020

Department of Army Individual Permit Water Quality Certification (Sec. 401) Federal Consistency

Army Corps of Engineers
DEP - Wetlands and Wetlands and Waterways Program
Massachusetts Coastal Zone Management

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03): Land Rare Species Wetlands, Waterways, & Tidelands l Water Wastewater Transportation Energy Air Solid & Hazardous Waste □ ACEC Regulations Historical & Archaeological Resources **Summary of Project Size** Existing Change Total State Permits & & Environmental Impacts **Approvals LAND** Order of Conditions Superceding Order of 39 acres Total site acreage Conditions New acres of land altered 0 Chapter 91 License Acres of impervious area 0 0 0 Certification Square feet of new bordering 0 sf (direct) MHD or MDC Access (18.6 acres vegetated wetlands alteration Permit of indirect) Square feet of new other 7,920 sf (direct) Act Permit wetland alteration (Salt Marsh) (20.01 acres New Source Approval of indirect) DEP or MWRA Acres of new non-water Sewer Connection/ dependent use of tidelands or Extension Permit waterways Other Permits **STRUCTURES** (including Legislative Approvals) - Specify: 0 Gross square footage 0 O 0 Number of housing units Army Corps of Engineers -Individual Permit 3.0 ft 10.0 ft 7.0 ft Maximum height (in feet) 4.0 ft 10.0 ft 6ft Coastal Zone Management -**TRANSPORTATION** Federal Consistency 0 Vehicle trips per day 0 0 Parking spaces 0 WATER/WASTEWATER Gallons/day (GPD) of water use 0 0 0 0 GPD water withdrawal 0 0 0 GPD wastewater generation/ 0 treatment 0 Length of water/sewer mains 0 0 (in miles)

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

Yes (Specify	No
Will it involve the release of any conservation restriction, or watershed preservation restriction.	on restriction, preservation restriction, agricultural preservation ction?
Environmental Management and is protecte	ted by a Coastal Wetlands Restriction Order by the Department of ed in the Order under M.G.L, C. 130, s. 105. The proposed work will lenhance the growth of salt marsh vegetation and provide No
RARE SPECIES: Does the project site inclu Rare Species, or Exemplary Natural Commu	ide Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of unities?
	ted within the habitat of the Estimated/Priority Habitat for the <i>in</i>).)
n the State Register of Historic Place or the Yes (Specify	URCES: Does the project site include any structure, site or district listed inventory of Historic and Archaeological Assets of the Commonwealth?
If yes, does the project involve any demolitio resources?	on or destruction of any listed or inventoried historic or archaeological
Yes (Specify)
AREAS OF CRITICAL ENVIRONMENTAL (Environmental Concern?	CONCERN: Is the project in or adjacent to an Area of Critical
	within the boundary of the Sandy Neck/Barnstable ACEC. The ly direction along the 100-year floodplain line through Barnstable and
(b) a description of both on-site and off-	ect description should include (a) a description of the project site, site alternatives and the impacts associated with each off-site mitigation measures for each alternative (You may c.)
Old Colony Railroad at the Bridge Creek cro he larger coastal/freshwater wetland system he project is to increase the tidal exchang culvert under the Old Colony Railroad and lows within the site have reduced the di	ement of two culverts located along Route 6A (King's Highway) and ossing in Barnstable, Massachusetts. The restoration site is a portion of m which is tidally connected with Barnstable Harbor. The purpose of ge to the upgradient restoration site by enlarging the existing 36-inch the 4x5 foot stone box culvert under Route 6A. The restricted tidal versity of vegetation and have created favorable conditions for the twasive common reed (<i>Phragmites australis</i>) and the conversion of salt

t) f marsh to brackish/freshwater wetland. The restoration project is expected to improve the overall wetland and aquatic habitat for approximately 39 acres of coastal/brackish wetland.

The restoration planning for the Bridge Creek site began in 1996, when the U.S. Army Corps of Engineers in cooperation with Coastal America, the Massachusetts Wetlands Restoration Program (MWRP), and the Massachusetts Highway Department conducted a site investigation of the Bridge Creek salt marsh. The findings of the report generated by this visit and subsequent studies indicated that both the railroad and the Route 6A culverts were severely restricting tidal flows to the upstream marsh.

Continuing with this initial planning, the Town of Barnstable and MWRP advanced the studies to include monitoring of tidal datum and hydrologic modeling of various restoration alternatives. Based on these efforts, a recommended alterative was identified that best represents the intent of the restoration planning. The proposed restoration scheme involves replacing the existing culvert structures under the Old Colony Rail and Route 6A with 10-foot x 10-foot box culverts. The selection of this culvert design is based on the desire to achieve a balance

between maximizing the tidal range and frequency within the restoration site, focusing the restoration of wetland areas dominated by *Phragmites*, and avoiding the risk of flooding on adjacent residential properties. Based on detailed hydrologic modeling (HEC-RAS Version 3.0) it was determined that installing one 10-foot x 10-foot culvert at the railroad and Route 6A crossing would allow tidal flow to reach an elevation of 5.48 feet. This design will result in a significant increase in frequency and height of the tidal range within the restoration site and approaches the unrestricted spring high tide elevation of 5.9 feet.

The culvert replacement under the Old Colony Railroad is scheduled for completion in March 2003. This schedule is being driven by a window of opportunity during a period when the Old Colony Rail will be taken temporarily out of service during the repairs to the bridge at the Cape Cod Canal and prior to the diner train beginning its schedule in April. The installation of the 10-foot x 10-foot box culvert at Route 6A will likely be completed during the spring/summer of 2003.

The implementation of both culvert replacements will restore approximately 39.2 acres of degraded marsh and upland habitat. In addition to inhibiting the growth of *Phragmites* within the salt marsh (7.93 acres) the restoration scheme as proposed, will restore brackish marsh to salt marsh (12.14 acres), scrub-shrub wetland to marsh (6.84 acres) and forested wetland to scrub-shrub habitats (11.81 acres). In addition, approximately 0.49 acres of upland area will be reclaimed as scrub-shrub wetland.

The proposed Bridge Creek Salt Marsh Restoration project is consistent with the goals of the Resolution to Restore Massachusetts Wetlands. In 1994, the Executive Office of Environmental Affairs (EOEA) and the federal agencies of the Coastal America Partnership U.S. Fish & Wildlife Service, Army Corps of Engineers, National Marine Fisheries Service, Environmental Protection Agency, Federal Highway Administration, and Natural Resources Conservation Service signed a Resolution to Restore Massachusetts Wetlands, pledging their commitment to a collaborative approach to restoring the Commonwealth's wetlands. This project is a Coastal America project and is supported by each of the Coastal America partners.

Please refer to Attachment A – Bridge Creek Salt Marsh Restoration Narrative.