

For Office Use Only
Executive Office of Environmental Affairs
 EOE No.: **13076**
 MEPA Analyst: **Deirdre Buckley**
 Phone: 617-626-**1044**

ENF Environmental Notification Form

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.

Project Name: Quivett Creek Marsh Restoration Project		
Street: Sea Street (abandoned)		
Municipality: Dennis & Brewster	Watershed: Cape Cod	
Universal Tranverse Mercator Coordinates: Zone 19N NAD83 404921 East 4622304 North	Latitude: 70° 8' 36.62" West Longitude: 41° 44' 48.7" North	
Estimated commencement date: Nov. 2004	Estimated completion date: January 2005	
Approximate cost: 150,000.00	Status of project design: 75% complete	
Proponent: Town of Dennis		
Street: 485 Main Street, PO Box 1419		
Municipality: South Dennis	State: MA	Zip Code: 02660
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Craig A. Wood		
Firm/Agency: The Louis Berger Group, Inc.	Street: 1001 Elm Street	
Municipality: Manchester	State: NH	Zip Code: 03101
Phone: (603) 644-5200	Fax: (603) 644-6220	E-mail: cwood@louisberger.com

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No
- Has this project been filed with MEPA before?
 Yes (EOEA No. _____) 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)) requesting:
- a Single EIR? (see 301 CMR 11.06(8)) Yes No
 - a Special Review Procedure? (see 301CMR 11.09) Yes No
 - a Waiver of mandatory EIR? (see 301 CMR 11.11) Yes No
 - a Phase I Waiver? (see 301 CMR 11.11) Yes No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres): N/A

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Specify _____) No

List Local or Federal Permits and Approvals:

<u>Permit</u>	<u>Approval</u>
Order of Conditions	Dennis/Brewster Conservation Commissions
Chapter 91 License	DEP-Waterways Program

Conservation Permit
 Water Quality Certification (Section 401)
 Federal Consistency
 PGP Category II

Division of Fisheries and Wildlife
 DEP-Wetlands and Waterways Program
 MA Coastal Zone Management
 Army Corps of Engineers

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|---------------------------------|--|--|
| <input type="checkbox"/> Land | <input checked="" type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input checked="" type="checkbox"/> Chapter 91 License <input checked="" type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/Extension Permit <input checked="" type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i> Army Corps of Engineers-Individual Permit Coastal Zone Management-Federal Consistency
Total site acreage	11 Acres			
New acres of land altered		0		
Acres of impervious area	0	0	0	
Square feet of new bordering vegetated wetlands alteration		0		
Square feet of new other wetland alteration (Salt Marsh)		875 sf perm. 100 sf temp.		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	0	0	0	
Number of housing units	0	0	0	
Maximum height (in feet)	5 ft	3 ft	8 ft	
TRANSPORTATION				
Vehicle trips per day	0	0	0	
Parking spaces	0	0	0	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal	0	0	0	
GPD wastewater generation/treatment	0	0	0	
Length of water/sewer mains (in miles)	0	0	0	

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, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

Yes (Specify _____) No Although properties are encumbered by Wetland Restriction Orders, DEP has determined that the execution of amendments is not necessary.

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify: This restoration site is located within an area mapped by the Massachusetts Natural Heritage and Endangered Species Program (MNHESP) as Priority Habitats-PH 1487 No

HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify _____) No The SHPO has indicated that the project is unlikely to affect significant historic or archaeological resources (see Attachment A).

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify _____) No

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify _____) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (*You may attach one additional page, if necessary.*) Quivett Creek defines the border border of Dennis and Brewster on Cape Cod, Massachusetts. The Creek and associated salt marsh lies just north of Route 6A. An abandoned roadbed (Sea Street) bisects the upper limits of the marsh. A pair of 30-inch corrugated metal pipes under Sea Street carries flow in Quivett Creek. The Creek extends under Route 6A via a 30-inch concrete pipe and connects to Bound Brook Reservoir. A masonry fish ladder at the outlet of the pond allows herring to spawn in the impoundment. The existing culverts under Sea Street, as well as the roadbed, itself are in poor condition and will fail in the near future without necessary rehabilitation. Substantial erosion is currently occurring within the former roadbed and around the existing culverts carrying sediment into the adjacent marsh. Field observations recorded a limited restriction in tidal flow to the upgradient marsh (which is approximately 11 acres in size) during high amplitude tide cycles. By stabilizing the eroding roadbed and enlarging the dilapidated culverts, the project will minimize the adverse ecological effects of the existing tidal restriction to the upper marsh, ease the passage of river herring, avoid increases in water levels during larger storm events which could impact abutting low-lying properties, and enhance passive recreation and environmental education opportunities.

Observations indicate a population of herring reluctant to pass beyond Sea Street. A larger structure will improve passage of migrating herring by increasing natural light, reducing velocities and eliminating the existing rough edges to the culverts. The culvert design is a three-sided, 8x8-foot structure with a 12-foot wide timber span over the top. Break-away bollards are proposed at either end of Sea Street for emergency access. The culvert will be outfitted with flashboards to restrict water movement above the design elevation. The provision for flashboards will allow town officials to gradually increase tidal flows over time. The design also includes the grading and repair of Sea Street to be at or above Elevation 8.0 feet NAVD to reduce the frequently of the roadbed being overtopped by tidal waters.

Unavoidable impacts to a state-listed plant (*Spartina cynosuroides*) are estimated as a loss of less than 1% of the local population. Permanent impacts to salt marsh associated with the culvert replacement total 875 square feet. Approximately 10 acres of remaining salt marsh and/or *Phragmites*-dominated wetland are anticipated to benefit from somewhat increased tidal flow during typical spring tides. The design also includes the restoration of 220 square feet of marsh within the former roadbed.