

For Office Use Only
Executive Office of Environmental Affairs

EOEA No.: 13408
 MEPA Analyst: Nick ZAVOLAS
 Phone: 617-626-1030

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: Maraspin Creek Maintenance Dredging		
Street: Mill Way Road		
Municipality: Barnstable	Watershed: Cape Cod	
Universal Transverse Mercator Coordinates: 19 03 91771 E 46 17 934 N	Latitude: 42° 30' 00" N Longitude: 70° 18' 30" W	
Estimated commencement date: Feb. 2005	Estimated completion date: April 2006	
Approximate cost: \$100,000	Status of project design: 20 %complete	
Proponent: Town of Barnstable, Department of Public Works		
Street: 367 Main Street		
Municipality: Hyannis	State: MA	Zip Code: 02601
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Martha Craig Rheinhardt		
Firm/Agency: Vine Associates, Inc.	Street: 18 Beach St., P.O. Box 555	
Municipality: Monument Beach	State: MA	Zip Code: 02553
Phone: 508-743-0390	Fax: 508-743-0391	E-mail: mrheinhardt@vineassociates.net

- 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. 12008) 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 301 CMR 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): None

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

List Local or Federal Permits and Approvals:

Order of Conditions; U.S. Army Corps of Engineers Programmatic General Permit

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

- | | | |
|--|---------------------------------------|--|
| <input type="checkbox"/> Land | <input 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 checked="" 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 type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i>
Total site acreage	166,000 SF			
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		152,000 SF LUO 14,000 SF Beach		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	N/A	N/A	N/A	
Number of housing units	N/A	N/A	N/A	
Maximum height (in feet)	N/A	N/A	N/A	
TRANSPORTATION				
Vehicle trips per day	N/A	N/A	N/A	
Parking spaces	N/A	N/A	N/A	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	N/A	N/A	N/A	
GPD water withdrawal	N/A	N/A	N/A	
GPD wastewater generation/treatment	N/A	N/A	N/A	
Length of water/sewer mains (in miles)	N/A	N/A	N/A	

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

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 _____) 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

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 Sandy Neck) 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.*)

The Town of Barnstable Department of Public Works is proposing a maintenance dredging project for the outer portion of Maraspin Creek in Barnstable Harbor. The proposed project will involve maintenance dredging in the outer portion of the existing sixty-foot wide navigation channel, approximately 1,600 feet, to elevation -6 MLW. The area to be dredged is approximately 152,000 square feet (s.f.) (3.5 acres). The project will involve the removal of approximately 20,000 cubic yards (CY) of material. This material will be used in part for beach nourishment, restoration of the existing berm at the adjacent dredge material placement area and the remainder will be used for upland reuse. No material will be removed from or disposed at the existing disposal area at this time.

The dredging work is proposed to be conducted in two phases. The first phase will involve dredging of the outermost areas of the entrance channel to elevation -5 MLW, where shoaling is most severe. This material will then be used for beach nourishment and disposal area berm reconstruction. Past sediment testing indicates that this material is likely suitable for nourishment of an adjacent beach. Testing will be conducted on the proposed dredge material and beach sediment in order to confirm suitability. The total volume of material to be removed during the first phase is approximately 5,000 CY. This will cover an area of beach approximately 14,000 s.f. in size.

The second phase of dredging will involve dredging the outermost areas of the entrance channel and the entire inner portion of the entrance channel to elevation -6 MLW. Depending on the grain size this material will be used for beach nourishment or beneficial upland reuse. The total volume of material to be removed during the second phase of the project is approximately 15,000 CY.

Alternative dredging layouts that have been considered include "Do Nothing", Channel Widening and Maintain Existing. The "Do Nothing" alternative was not considered since it would not provide the required navigation safety improvements. Existing recreational and commercial boats would continue to ground on the shoals, endangering public safety and the environment.

During the review process for the dredging project in 1994, it was suggested that the frequency of the maintenance dredging could be reduced if the existing channel were widened to 100 feet. Widening of the Maraspin Creek channel could reduce the frequency of dredging. However, the widening alternative was considered not feasible for the 1999 maintenance dredging project, and is not considered feasible now, since improvement dredging projects are not allowed within an ACEC.

The Maintain Existing alternative, which is the proposed project design, provides the required navigation improvements, minimizes environmental impacts and is allowed under current regulations.

The currently proposed project will use the dredge material removed during the first phase of the project for beach nourishment at an adjacent beach and for the reconstruction of the disposal area berm. Past sediment testing indicates that this material is likely suitable for nourishment to an adjacent beach. Testing will be conducted on proposed dredge material and beach sediment in order to confirm suitability.

The second phase of dredging will involve dredging the outermost areas of the entrance channel and the entire inner portion of the entrance channel to elevation -6 MLW. Depending on the grain size this material will be used for beach nourishment or beneficial upland reuse.

This proposed maintenance dredging project has been designed and will be constructed using the best available measures to minimize adverse impacts to the adjacent wetland resource areas and the Sandy Neck/Barnstable Harbor ACEC.

The proposed maintenance dredging project will alter approximately 3.5 acres of Land Under the Ocean. The proposed dredge footprint has been altered by prior dredging projects. No channel modifications or deepening is proposed by this project. There may be short turbidity impacts but these should be minor since the material will be dredged by hydraulic methods during the dormant fall and winter months. The proposed improvements will not significantly impact the resource area's ability to provide feeding, spawning or shelter areas to coastal organisms, to buffer the high energy effects of storms, to provide a sediment source for coastal beaches.

Coastal beach will be impacted by the placement of dredge material on the beach as beach nourishment. The sediment on the beach will be tested for grain size to assure that the dredge material is compatible with the sediment already on the beach. The proposed work will not adversely impact the volume and form of sediment supply, the beach's ability to respond to wave action or its ability to provide wildlife habitat.

See attached project narrative for more details.

