

MARINE & COASTAL RESOURCES DEPARTMENT

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MEMO

To: Board of Selectmen
Town Manager
Assistant Town Manager

From: Dave Fronzuto, Marine Superintendent and Jeff Carlson, Natural Resources Coordinator

Date: October 27, 2011

Re: Coastal Management Principles Update, November 2, 2011

This memo and attachments are to serve as an update in the Town's development of a set of Coastal Management Principles (CMP). The workgroup on this project has come to a crossroads in the development of the CMP and are looking for some guidance from the Board of Selectmen in how they best feel the workgroup proceed to best serve the entire island. The workgroup initially created an issue matrix that contained 17 separate coastal management issues. Due to ongoing and completed Town projects and initiatives the matrix was focused to four issues that need to be addressed. They are coastal hazards, coastal erosion, public access, and homeland security. During this same time the Town's Marine & Coastal Resources Department applied for a StormSmart Grant (<http://www.mass.gov/czm/stormsmart/>) with the Massachusetts Office of Coastal Zone Management (CZM). This grant is to provide the Town two years of technical assistance in developing a multi-objective management plan. One of the main goals of the StormSmart program is to assist towns' in the creation of a multi-objective management plan focusing on the CZM "No Adverse Impact" principles. It is important to note that currently these principles are focused solely on town-owned/operated land. I will briefly review each attachment below and present the option that they provide.

Attachment/Option 1- The workgroup prior to the work on the StormSmart grant chose to start working on the coastal erosion component of the CMP. The first attachment is the current draft of this coastal erosion section. As part of the work on the CMP the first option is to work on the entire document locally, one issue at a time and adopted them through the public hearing process as each issue is completed to form our final Coastal Management Principles. These can serve as the framework for any work that maybe done in conjunction with CZM on the StormSmart grant. These issues may see some significant revisions through the StormSmart process and any other future public hearings.

Attachment/Option 2- Upon receiving the StormSmart grant for the technical assistance the workgroup can work with Coastal Zone Management on this multi-objective management to address all of the identified issues in a single block. CZM defines this multi-objective management as "multi-objective management interweaves No Adverse Impact (NAI) principles into all aspects of community planning-simultaneously addressing not only land use but also efforts to protect community economic,

cultural, ecological, historic, fiscal, and aesthetic resources. Multi-objective management gathers interested parties, such as residents, business leaders and local officials, to decide how to manage land in a community, integrating as many interests as possible-; not just hazard reduction or economic development.” The “No Adverse Impact” principles are attached as part of the second attachment. This option will allow for the town to create a living set of principles that the community will have significant input in creating. This option while taking more time will provide a more community involved, complete final set of principles.

In addition to the StormSmart grant application the department has applied for an additional grant with the Gulf of Maine Council on the Marine Environment & Northeast Regional Ocean Council.

Through this project, the town seeks to develop a local draft Floodplain Bylaw that will minimize flood related risks and impacts from both new development and from redevelopment of properties within coastal floodplains. To help educate decision makers about current and future risks from coastal flooding, the town seeks to develop updated flood inundation maps that will identify coastal flood zones for a variety of future sea level rise scenarios. The project will build upon work that the town is planning to undertake as part of the CZM StormSmart community pilot project program and will include:

- Use of the updated MCZM shoreline change maps to help characterize potential impacts to coastal wetland resource areas and the developed environment. Assess the effects of movement in terms of potential impacts to coastal resource areas, such as coastal beach, coastal dune, barrier beach, ponds as well as developed areas and infrastructure.
- Develop a coastal structures “build-out” map, which would identify and map those parcels on the island with pre-1978 structures that could legally be considered for structural armoring under existing regulations. The existing 1992 FEMA flood maps are inadequate for this planning initiative. Recent LIDAR over flights have been conducted and will be extremely useful in determining coastal erosion and future flood inundation.
- Develop management recommendations for consideration for inclusion in Nantucket’s Municipal Harbor Plan and Nantucket’s Coastal Management Principles.

We intend on being at the meeting on November 2, 2011 to answer any questions that the Board has in regards to the Coastal Management Principles. Thank you for your attention to this matter.