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April 10, 2009

CERTIFICATE OF THE SECRETARY OF ENERGY AND ENVIRONMENTAL AFFAIRS  
ON THE  
ENVIRONMENTAL NOTIFICATION FORM

PROJECT NAME : Proposed Single-Family Dwelling Construction on a Coastal Dune  
PROJECT MUNICIPALITY : Marshfield  
PROJECT WATERSHED : South Coastal  
EEA NUMBER : 14382  
PROJECT PROPONENT : Mildred Sanborn  
DATE NOTICED IN MONITOR : March 11, 2009

Pursuant to the Massachusetts Environmental Policy Act (M.G. L. c. 30, ss. 61-62I) and Section 11.06 of the MEPA regulations (301 CMR 11.00), I hereby determine that this project **does not require** the preparation of an Environmental Impact Report (EIR).

As described in the Environmental Notification Form (ENF), the project consists of the construction of a single-family home on a 5,100 square foot (sf) lot (Parcel L11-03-10) on Constellation Road in Marshfield. The project site is a vacant lot located in a densely developed residential neighborhood situated approximately 215 feet from the ocean (Massachusetts Bay). The Coastal Beach along the ocean is defined by a concrete seawall, varying between 8 and 10 feet in height. The project site is located on a Coastal Dune and within Land Subject to Coastal Storm Flowage (LSCSF). The project will result in the permanent alteration of 1,400 sf of Coastal Dune and LSCSF as a result of the placement of the house, deck and steps. The project includes the creation of a stone driveway and walkway, planting of native vegetation, the creation of a sand berm to contain stormwater flow from an adjacent parcel, removal of existing

concrete debris, the installation of bird boxes, and a potential donation of \$1,500 to the Marshfield town beach grass fund. Existing on-site elevations range from approximately 11 to 14 feet. The proposed pile-supported residence will have a finished floor elevation of 16 feet.

### Jurisdiction

The project is undergoing MEPA review pursuant to Sections 11.03(3)(b)(1)(a) because the project requires a State agency action and will result in alteration of a Coastal Dune. The project requires a Superseding Order of Conditions from the Massachusetts Department of Environmental Protection (MassDEP).

Because the proponent is not seeking financial assistance from the Commonwealth for the project, MEPA jurisdiction extends to those aspects of the project that are within the subject matter of required or potentially required state permits and that may cause Damage to the Environment as defined in the MEPA regulations. In this case, MEPA jurisdiction exists over wetlands.

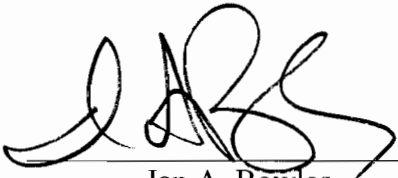
### Wetlands

The entire project area is located within a Flood Zone AO (depth 2'), characterized as sheet flow on sloping terrain, as identified in the revised June 16, 2006 Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM). CZM has noted that the proposed construction site is in a repetitive loss zone as identified in the CZM South Shore Coastal Hazards Characterization Atlas and is in the vicinity of shorelines that are eroding at a rate of approximately 2 feet per year. Additionally, although the project site is located within a Flood Zone AO, the site is in close proximity to the landward delineation of the mapped Zone VW (elevation 17'), which is characterized as a coastal flood zone with velocity hazard due to wave action. MassDEP has opined that the project could be conditioned to comply with the performance standards at 310 CMR 10.28.

The project will be required to comply with 780 CMR 120.G *Flood Resistant Construction and Construction in Coastal Dunes* of the State Board of Building Regulations and Standards, Seventh Edition, effective January 1<sup>st</sup>, 2008. Furthermore, I encourage the Proponent to incorporate best practices and elements recommended by CZM's StormSmart Coasts Program, as outlined in CZM's comment letter on the ENF. I note the recommendation regarding providing freeboard into the design elevation to allow for potential sea-level rise and encourage the Proponent to consider implementation of this mitigation measure. Finally, I anticipate that the Proponent will consult with MassDEP during the permit review process to confirm that the placement of the sand berm for stormwater management control will not result in an exacerbation of potential flooding effects during a coastal storm event.

Based on the information in the ENF and after consultation with relevant public agencies, I find that no further MEPA review is required at this time. The project may proceed to State permitting.

April 10, 2009  
Date



Ian A. Bowles

Comments received:

03/23/2009 Jane Wallace  
03/31/2009 Office of Coastal Zone Management  
03/31/2009 Massachusetts Department of Environmental Protection - SERO

IAB/HSJ/hsj