TO: **Jared Woolston,** Project Manager
Dept. of Environmental Protection (DEP)
Bureau of Land and Water Quality Control

FROM: Department of Marine Resources (DMR)

SUBJECT: REQUEST FOR PROJECT REVIEW

PROJECT: DEP Application #: L-25252-4D-A-N
Applicant: Daniel Webster
Location: Northport (Penobscot Bay)
Type of Project: Rip-rap Shoreline Stabilization

The above proposed project has been carefully reviewed and considered by DMR personnel. The following are DMR's comments:

DMR personnel visited the site on March 23, 2011 at 1040 (low water approx.: 0815).

DMR understands that the applicant is proposing to install 12 to 24 inch diameter stone along 49½ ft. of shoreline to a height of 6 to 8 ft. at a 1½:1 slope, extending a maximum of 5 ft. beyond the Highest Annual Tide (HAT). Approximately 275 sq. ft. of intertidal below HAT would be covered. Material and equipment delivery would likely be from a barge.

The site of the proposed project at 750 Shore Rd. is a moderate to high energy shore. The upland of the proposed project area contains a cottage with a porch that is ~ 8 ft. from the top of the supratidal bank. The applicant owns 49½ ft. of shoreline. The supratidal bank is ~ 30 ft. high containing mature oak and birch and small evergreen trees along the top edge that are all near vertical and appear to be well rooted. The bank appears to be stabile and has large stone that affords protection along most of the toe of slope. There may be some undercutting by wave action near the northerly end of the proposed project area. The abutting property to the north (752 Shore Rd.) has some more serious erosion concerns. The upper intertidal is boulder/cobble/gravel. The mid and lower intertidal is boulder/cobble/gravel with scattered rockweed. The abutting property to the south, also owned by the applicant, has a timber/stone crib with a recreational platform on top that has seasonal electricity and water. This extends ~ 15 ft. beyond the toe of slope into the intertidal and is accessed by a newly constructed set of stairs from the upland. Stones from the intertidal appear to have been incorporated within the cribwork. The intertidal in front of the cribwork contains noticeably fewer large stone than the intertidal on either side.

Consideration should be given to armoring only that area to the north that appears to be undergoing some undercutting. Stable trees and shrubs should be left in place to the extent possible. If vegetation removal and re-grading of the entire slope is to be done (this is not recommended, and it is not clear whether this is proposed); dense re-planting with a variety of trees, shrubs and other plants should be done over the entire area. Any excavation should be done while the tide is out and the excavated area stabilized prior to an incoming tide (it appears from the consultant's Feb. 24, 2011 letter that excavation at the toe of slope would be minimized). Use of excavation equipment on the intertidal should be done on protective mats. Construction equipment should not be left on the intertidal during high tide. Stone should not be taken from the intertidal. Navigation and recreation, and riparian access would not be impeded by this proposal.

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Brian M. Swan
DMR Environmental Coordinator
Date: March 23, 2011