VIMS Shoreline Permit Application Report #03-2281

**APPLICANT:** PETER MERRICK  
**Locality:** NORTHUMBERLAND COUNTY  
**Immediate Waterway:** Prentice Creek  
**Watershed:** NORTHERN NECK BAYSHORE  
**Purpose:** Erosion Control  
**Application Type:** Wetlands  
**Site Inspection:** 11/17/03  
**Report Date:** 11/24/03

**Type of Activity**  
<table>
<thead>
<tr>
<th>Activity</th>
<th>Proposed Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riprap (ft)</td>
<td>138</td>
</tr>
<tr>
<td>Impact Saltmarsh Cordgrass Community (Type I) (ft2)</td>
<td>218</td>
</tr>
<tr>
<td>Fill Saltmarsh Cordgrass Community (Type I) (ft2)</td>
<td>80</td>
</tr>
<tr>
<td>Total Impacts (ft2)</td>
<td>218</td>
</tr>
<tr>
<td>Total Impacts (Wetlands)</td>
<td>218</td>
</tr>
<tr>
<td>Total Impacts (Subaqueous)</td>
<td>0</td>
</tr>
<tr>
<td>Total Impacts (Beach/Dune)</td>
<td>0</td>
</tr>
<tr>
<td>Total Fill (ft2)</td>
<td>80</td>
</tr>
</tbody>
</table>

**Project Location**

Northumberland County

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Center for Coastal Resources Management  
P.O. Box 1346  
Gloucester Point, VA 23062-1346

Thomas A. Barnard, Director  
(804)684-7380, fax: (804)684-7179, e-mail: http://ccrm.vims.edu
NOTE

The Virginia Institute of Marine Science (VIMS) recognizes that the regulatory process considers all aspects of a particular project, including socioeconomic factors. This report, however, only addresses marine environmental concerns.

Findings & Recommendations:

A rock revetment is proposed along a shoreline with noticeable bank erosion in spite of a dense fringe of tidal wetland vegetation that is present. The adverse impacts resulting from this activity will be minimized if the revetment is constructed as proposed, with bank grading to place the toe on the landward side of the marsh vegetation. However, the upland bank curves back toward the house on the south side of the pier, but the southernmost 20 feet of the proposed revetment extends into the marsh area. It appears backfill would be needed to provide a stable slope for the structure. This direct impact to the marsh could be avoided if the revetment followed the upland bank along the entire length of the project. Erosion and sediment control measures will be needed until the graded bank is stabilized with a vegetative cover.

Karen A. Duhring
Marine Scientist
Hydrologic units represent smaller, isolated watersheds defined by topography and flow direction. These units can be thought of as insulated ecosystems or landscapes within which resources can be managed at a larger scale. The cumulative impact of a project to resources within a hydrologic unit may be significantly greater than the impact to the larger watershed above.
To Wetlands Board / VMRC: Please indicate Wetlands Board / VMRC action on this sheet and return to VIMS

Application Number: 03-2281
Name: Peter Merrick
Locality: Northumberland County
Waterway: Prentice Creek

Please check here if this application was approved as proposed _____

Complete the form below if the application was modified.

ACTIVITIES PROPOSED PERMITTED

| Riprap (ft)         | 138   | _____ |
| Impact Saltmarsh Cordgrass Community (Type I) (ft²) | 218   | _____ |
| Fill Saltmarsh Cordgrass Community (Type I) (ft²) | 80    | _____ |

Please specify required modifications: _______________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________

Thomas A. Barnard, Director