**VIMS Shoreline Permit Application Report # 02-2290**

**APPLICANT:** MORRIS MEEKER  
Immediate Waterway: Indian Creek  
Locality: NORTHUMBERLAND COUNTY  
Purpose: Erosion Control  
Application Type: Wetlands  
Site Inspection: 12/12/02  
Report Date: 12/20/02

<table>
<thead>
<tr>
<th>Type of Activity</th>
<th>Proposed Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riprap (ft)</td>
<td>235</td>
</tr>
<tr>
<td>Impact Saltmarsh Cordgrass Community (Type I) (ft2)</td>
<td>270</td>
</tr>
<tr>
<td>Fill Saltmarsh Cordgrass Community (Type I) (ft2)</td>
<td>135</td>
</tr>
<tr>
<td>Impact Sand/Mud Mixed Flat Community (Type XV) (ft2)</td>
<td>300</td>
</tr>
<tr>
<td>Fill Sand/Mud Mixed Flat Community (Type XV) (ft2)</td>
<td>150</td>
</tr>
<tr>
<td>Total Impacts (ft2)</td>
<td>570</td>
</tr>
<tr>
<td>Total Impacts (Wetlands)</td>
<td>570</td>
</tr>
<tr>
<td>Total Impacts (Subaqueous)</td>
<td>0</td>
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<tr>
<td>Total Impacts (Beach/Dune)</td>
<td>0</td>
</tr>
<tr>
<td>Total Fill (ft2)</td>
<td>285</td>
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</tbody>
</table>

**Project Location**

Northumberland County

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Virginia Institute of Marine Science  
School of Marine Science  
P.O. Box 1346, Route 1208 Greate Road  
Gloucester Point, Virginia 23062-1346  
phone: (804)684-7380, fax: (804)684-7179, e-mail: wetlands@vims.edu
NOTICE

The Virginia Institute of Marine Science (VIMS) is aware that regulatory or administrative bodies who weigh the overall potential public and private benefits and detriments in arriving at decisions must also consider other factors such as economics, aesthetics, zoning, or community desires. INFORMATION PROVIDED IN THIS REPORT IS, THEREFORE, ONLY THE ENVIRONMENTAL AND MARINE RESOURCES INPUT INTO THE DECISION MAKING PROCESS.

This assessment is based on biological, chemical, geological, and physical factors affecting the marine environment at and in the vicinity of the proposed activity. Parameters of the marine environment which may influence recreational, commercial, or industrial activities which are dependent on the marine environment are also considered where applicable.

Comments:

We have reviewed this proposal from a marine environmental viewpoint. A riprap revetment and bank grading are proposed along a forested shoreline with noticeable erosion and bank undercutting. The individual and cumulative adverse impacts resulting from this activity will be minimized if the revetment toe is placed landward of the marsh vegetation after bank grading, as proposed. However, a 6-foot height and 12-foot base width for the structure seem excessive, considering the waterway location and the size of similar structures in the vicinity.

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.
Permit Site Study Area

Northumberland County
NORTHERN NECK BAYSHORE
Indian Creek

Project site

Northern Neck Bayshore watershed

Tidal Marsh Inventory - TMI
- Arrow Arum-Pickerelweed
- Big Cordgrass
- Black Needlerush
- Brackish Water Mixed
- Cattail
- Freshwater Mixed
- Reed Grass
- Saltbush
- Saltmeadow
- Saltmarsh Cordgrass
- Yellow Pond Lily

Roads
- Primary
- Secondary
- Tertiary

Intertidal flat

Open water

0 0.5 1 Miles
To Wetlands Board: Please indicate Wetlands Board action on this sheet and return to VIMS

Application Number: 02-2290
Name: Morris Meeker
Locality: Northumberland County
Waterway: Indian Creek

Please check here if this application was approved as proposed  
Complete the form below if the application was modified.

<table>
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<th>PERMITTED</th>
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Comments: __________________________________________________________________________________
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Certified by: __________________________________________

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