VIMS Shoreline Permit Application Report # 02-1917

APPLICANT: JAMES ROHOLL
Immediate Waterway: Glebe Creek
Locality: WESTMORELAND COUNTY
Purpose: Erosion Control, Water Access
Application Type: Wetlands
Site Inspection: 11/14/02
Report Date: 11/15/02

Type of Activity                          Proposed Extent
Riprap (ft)                               130
  Fill Saltmarsh Cordgrass Community (Type I) (ft2) 520
  Impact Saltmarsh Cordgrass Community (Type I) (ft2) 540
Total Impacts (ft2)                       540
  Total Impacts (Wetlands)                 540
  Total Impacts (Subaqueous)               0
  Total Impacts (Beach/Dune)               0
Total Fill (ft2)                          520

Project Location

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
ATTENTION

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.

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.

Comments:

It is our opinion that the individual and cumulative adverse environmental impacts resulting from a portion of this project warrant careful consideration. The following report summarizes these impacts and, where appropriate, suggests alternatives to minimize environmental effects.

At the time of the site visit, grading of the bank had already begun and material from the bank had been pushed seaward of mean high water. Approximately 100 sq. ft. of Spartina alterniflora wetlands had been filled by the grading activity. Additional wetlands may have been disturbed prior to our site visit.

The applicant proposes to align the riprap on a 2H:1V slope, resulting in the displacement of approximately 520 sq. ft. of vegetated and nonvegetated wetlands seaward of mean high water. It is not clear why this amount of encroachment is necessary when the bank is to be graded in order to place the stone.

From a marine environmental perspective, we recommend that the bank be graded landward both to remove the material already in the wetlands and to limit the further encroachment with the riprap. The bank should be graded and sloped such that the seaward toe of the riprap is at or above mean high water. Mean high water in this case is the landward edge of the remaining, undisturbed fringe marsh. Once the riprap is in place, the marsh grass displaced by the initial bank grading should be restored by sprigging plants on 18" centers to the approximate mid-tide elevation.

Thomas A. Barnard, Ph.D.
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: Please indicate Wetlands Board action on this sheet and return to VIMS

Application Number: 02-1917
Name: James Roholl
Locality: Westmoreland County
Waterway: Glebe Creek

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

<table>
<thead>
<tr>
<th>ACTIVITIES</th>
<th>PROPOSED</th>
<th>PERMITTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riprap (ft)</td>
<td>130</td>
<td>___</td>
</tr>
<tr>
<td>Fill Saltmarsh Cordgrass Community (Type I) (ft2)</td>
<td>520</td>
<td>___</td>
</tr>
<tr>
<td>Impact Saltmarsh Cordgrass Community (Type I) (ft2)</td>
<td>540</td>
<td>___</td>
</tr>
</tbody>
</table>

Comments: __________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________

Certified by: __________________________________________