VIMS Shoreline Permit Application Report # 01-1679

APPLICANT: TUTTLE, JOHN C. & CYNTHIA B.
Immediate Waterway: Sterns Creek
Locality: CITY OF CHESAPEAKE
Purpose: Residential Construction
Application Type: Wetlands
Site Inspection: 10/30/01
Report Date: 11/8/01

Type of Activity

Proposed Extent

Riprap (ft) 6
Impact Brackish Water Mixed Community (Type XII) (ft2) 30

Total Impacts (ft2) 30
Total Impacts (Wetlands) 30
Total Impacts (Subaqueous) 0
Total Impacts (Beach/Dune) 0
Total Fill (ft2) 0

Project Location

City of Chesapeake

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:

We have reviewed this application from a marine environmental perspective and it is our opinion that the individual and cumulative adverse impacts resulting from the proposed activity will be minimal. However, to help reduce the velocity of stormwater entering the creek and possible scouring, we suggest the applicant consider utilizing class AI stone placed on filter cloth to construct the splash apron rather than uncured bags of cement as proposed.

David L. O’Brien
Marine Scientist
Total Permitted Wetlands Loss by Type for LOWER JAMES RIVER (TIDAL) : 1996-1999

<table>
<thead>
<tr>
<th>Community Type</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetated Wetlands</td>
<td>170828 ft²</td>
</tr>
<tr>
<td>Non-Vegetated Wetlands</td>
<td>329818 ft²</td>
</tr>
<tr>
<td>Subaqueous Bottom</td>
<td>290917 ft²</td>
</tr>
</tbody>
</table>

Total Permitted Wetlands Loss by Type for City of Chesapeake : 1996-1999

<table>
<thead>
<tr>
<th>Community Type</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetated Wetlands</td>
<td>52094 ft²</td>
</tr>
<tr>
<td>Non-Vegetated Wetlands</td>
<td>30936 ft²</td>
</tr>
<tr>
<td>Subaqueous Bottom</td>
<td>11482 ft²</td>
</tr>
</tbody>
</table>

Total Proposed Shoreline Structures and Activities for City of Chesapeake -- 1996-1999

<table>
<thead>
<tr>
<th>Structure Type</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Ramps</td>
<td>3126 ft²</td>
</tr>
<tr>
<td>Boat Ramps 1 Openpile</td>
<td></td>
</tr>
<tr>
<td>Boat Slips</td>
<td>39</td>
</tr>
<tr>
<td>Bulkhead</td>
<td>2672 ft</td>
</tr>
<tr>
<td>Commercial Structure</td>
<td>22681 ft²</td>
</tr>
<tr>
<td>General Fill</td>
<td>23935 ft²</td>
</tr>
<tr>
<td>Bulkhead Toe Protection</td>
<td>439 ft</td>
</tr>
<tr>
<td>Bulkhead Replacement</td>
<td>3307 ft</td>
</tr>
<tr>
<td>Mitigated Wetlands</td>
<td>96923 yd³</td>
</tr>
<tr>
<td>New Dredging</td>
<td>218994 yd³</td>
</tr>
<tr>
<td>Maintenance dredging</td>
<td>89000 yd³</td>
</tr>
<tr>
<td>Riprap</td>
<td>8734 ft</td>
</tr>
<tr>
<td>Submarine Crossings</td>
<td>140 ft</td>
</tr>
</tbody>
</table>

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.
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Permit Site Study Area

City of Chesapeake
LOWER JAMES RIVER (TIDAL)
Sterns Creek

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
- Open water

Locality boundaries
Lower James River (Tidal) watershed

Project site

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

Application Number: 01-1679
Name: Tuttle, John C. & Cynthia B.
Locality: City of Chesapeake
Waterway: Sterns 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>6</td>
<td>_____</td>
</tr>
<tr>
<td>Impact Brackish Water Mixed Community (Type XII) (ft²)</td>
<td>30</td>
<td>_____</td>
</tr>
</tbody>
</table>

Comments: __________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________

Certified by: __________________________________________________________________________

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