### VIMS Shoreline Permit Application Report # 03-1577

**APPLICANT:**
- **RICHARD F. BARRY, III**
- **CITY OF SUFFOLK**

**Locality:**
- James River

**Immediate Waterway:**
- LOWER JAMES RIVER (TIDAL)

**Watershed:**
- Erosion Control

**Purpose:**
- Wetlands, Subaqueous

**Application Type:**
- 6/9/03

**Site Inspection:**
- 8/20/03

**Report Date:**
- 03-1577

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#### Type of Activity

<table>
<thead>
<tr>
<th>Activity</th>
<th>Proposed Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakwater (ft)</td>
<td>360</td>
</tr>
<tr>
<td>Breakwater 2 Unit(s)</td>
<td>8360</td>
</tr>
<tr>
<td>Impact Subaqueous Bottom (ft2)</td>
<td>8360</td>
</tr>
<tr>
<td>Beach Nourishment (ft)</td>
<td>800</td>
</tr>
<tr>
<td>Beach Nourishment (ft2)</td>
<td>21000</td>
</tr>
<tr>
<td>Impact Intertidal Beach Community (Type XIII) (ft2)</td>
<td>9900</td>
</tr>
<tr>
<td>Impact Subaqueous Bottom (ft2)</td>
<td>11100</td>
</tr>
<tr>
<td>Marsh Toe (ft)</td>
<td>380</td>
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<tr>
<td>Impact Subaqueous Bottom (ft2)</td>
<td>7410</td>
</tr>
<tr>
<td>Fill Subaqueous Bottom (ft2)</td>
<td>7410</td>
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</table>

**Total Impacts (ft2)**
- 36770

**Total Impacts (Wetlands)**
- 9900

**Total Impacts (Subaqueous)**
- 26870

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**Project Location**

City of Suffolk

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Center for Coastal Resources Management

P.O. Box 1346

Gloucester Point, VA 23062-1346

(804)684-7380, fax: (804)684-7179, e-mail: http://ccrm.vims.edu/
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Total Impacts (Beach/Dune)</td>
<td>0</td>
</tr>
<tr>
<td>Total Fill (ft²)</td>
<td>15770</td>
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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:
We have reviewed this proposal from a marine environmental viewpoint and it is our opinion that the individual and cumulative adverse impacts resulting from this activity will involve a significant disturbance of approximately 1000 linear feet of James River shoreline but the disturbance will be relatively short term. The biotic communities disturbed and/or displaced during construction should recover within one year for nonvegetated, and two to three years for vegetated wetlands.

The riprap structures should function to stabilize the shoreline and protect the existing marsh while allowing plantings and beach nourishment to re-establish additional vegetated and nonvegetated wetlands, as well as a higher dune community around the embayment, and in place of the Phragmites. Stabilizing this point should allow for a more diverse and productive marine community to develop over the long term within this reach.
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

City of Suffolk
LOWER JAMES RIVER (TIDAL)
James River

Open water
Intertidal flat
Roads
Primary
Secondary
Tertiary
Tidal Marsh Inventory - TMI
Arrow Arum-Pickerelweed
Big Cordgrass
Black Needle rush
Brackish Water Mixed
Cattail
Freshwater Mixed
Reed Grass
Saltbush
Saltmeadow
Saltmarsh Cordgrass
Yellow Pond Lily

Lower James River (Tidal) watershed
VIMS Shoreline Permit Application Report # 03-1577

To Wetlands Board / VMRC: Please indicate Wetlands Board / VMRC action on this sheet and return to VIMS

Application Number: 03-1577
Name: Richard F. Barry, III
Locality: City of Suffolk
Waterway: James River

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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Please specify required modifications: _______________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________
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Thomas A. Barnard, Director