**APPLICANT:** W. F. MAGANN CORPORATION  
**Immediate Waterway:** Elizabeth River  
**Locality:** CITY OF NORFOLK  
**Purpose:** Shoreline Stabilization, Improve Navigation  
**Application Type:** Wetlands, Subaqueous  
**Site Inspection:** 1/25/02  
**Report Date:** 3/12/02

### Type of Activity

<table>
<thead>
<tr>
<th>Activity</th>
<th>Proposed Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulkhead Replacement (ft)</td>
<td>570</td>
</tr>
<tr>
<td>Impact Subaqueous Bottom (ft²)</td>
<td>1140</td>
</tr>
<tr>
<td>Fill Subaqueous Bottom (ft²)</td>
<td>1140</td>
</tr>
<tr>
<td>Impact Intertidal Rubble/Riprap (ft²)</td>
<td>3875</td>
</tr>
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<td>Fill Intertidal Rubble/Riprap (ft²)</td>
<td>3875</td>
</tr>
<tr>
<td>Maintenance dredging (yd³)</td>
<td>3606</td>
</tr>
<tr>
<td>Impact Subaqueous Bottom (ft²)</td>
<td>37800</td>
</tr>
</tbody>
</table>

### Project Location

**City of Norfolk**

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 application from a marine environmental perspective and it is our opinion that the individual and cumulative adverse impacts resulting from the proposed bulkhead replacement and maintenance dredging will be minimal.

David L. O’Brien
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

City of Norfolk
LOWER JAMES RIVER (TIDAL)
Elizabeth River

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

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

Application Number: 01-2233
Name: W. F. Magann Corporation
Locality: City of Norfolk
Waterway: Elizabeth River

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

ACTIVITIES

<table>
<thead>
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<th>PERMITTED</th>
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Comments: __________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________

Certified by: __________________________________________