

Wetlands Board

May 12, 2010

A. Roll Call

B. Minutes

1. From February 11, 2010 and March 10, 2010 – Board Meetings

C. Public Hearings

1. W-09-10/VMRC 10-0153 – HRSD/Carter's Grove LLC – 300 Ron Springs Drive

D. Board Considerations - None

E. Matters of Special Privilege

F. Adjournment

MEMORANDUM

DATE: May 12, 2010
TO: The Wetlands Board
FROM: Michael Majdeski; Senior Environmental Inspector
SUBJECT: Case NO. W-09-10/VMRC 10-0153; Hampton Roads Sanitation District Sewage Treatment Plant; Beach Nourishment, Breakwater Sill, and Re-Vegetation Project

The Hampton Roads Sanitation District has applied for a Wetlands Permit to undertake a beach nourishment project with an incorporated breakwater sill and subsequent re-vegetation at the HRSD sewage treatment facility within James City County. The property is located directly adjacent to 300 Ron Springs Road and is further identified as JCC Parcel Number 52820100002. Tom Langley, PE, LS, of Langley and McDonald Corporation is the authorized agent for this project.

A site visit was conducted on April 15, 2010 by staff to evaluate both the potential scope of the project and the existing conditions on-site.

The existing location of the proposed work borders the James River in a southwesterly facing direction and has in the past experienced extensive erosion caused by large wave action from previous storm events and strong winds. Breakwaters have been previously installed in this area to reduce shoreline erosion and to reduce the impacts to the HRSD Treatment Plant infrastructure. Although two of these breakwaters currently reside adjacent to the proposed work area, they cannot be extended as two treatment plant outfalls are located between the existing breakwaters. According to the applicant, ongoing shoreline erosion is threatening the existing infrastructure and the proposed modification will improve shoreline protection for the two treatment plant outfalls.

The project design proposes to install a breakwater sill composed of Class I rip rap approximately 40' wide located between and landward of two existing rip rap breakwaters. In addition to the proposed breakwater sill, approximately 300 cubic yards of sand will be placed adjacent to the aforementioned rip rap breakwaters and proposed sill structure to provide beach nourishment in this area. To provide for further stabilization of the proposed beach area, the sand fill located between MLW (-1) and MHW (+1) is to be planted with Smooth Cordgrass (*Spartina Alterniflora*) on 18" centers. The remaining sand fill area that extends from above MHW to existing ground is proposed to be planted with *Spartina Patens* on 18" centers.

It is the staff's recommendation that the Board approve this application, with the following conditions:

1. Prior to any land disturbing activities, a preconstruction meeting will be held on-site.
2. No woody vegetation shall be removed as part of this project, as per the approved plan.
3. The Environmental Division Director reserves the right to require erosion and sediment control measures, including a turbidity curtain, for this project if field conditions warrant their use.
4. The limits of clearing and grading shall be flagged in the field prior to the pre-construction meeting.

5. Surety in an amount to be determined by the Director of the Environmental Division is required to be posted to guarantee the installation of the proposed mitigation plantings.
6. All re-planted areas should be periodically monitored for one year to ensure proper vegetative establishment.
7. The wetlands permit for this project shall expire on May 12, 2011. If an extension of the permit is needed, a written request shall be submitted to the Environmental Division no later than two weeks prior to the expiration date.