

Reviewer: _____
 Review Completed On (date): _____

Project: _____

ISLE OF WIGHT COUNTY: WATER QUALITY IMPACT ASSESSMENT

Shoreline Erosion Control Projects

This document is intended to be a guide for localities to determine whether a project is consistent with the Chesapeake Bay Preservation Area Ordinance and related state regulations.

Application Date: ____/____/____

Scheduled for Wetlands Board on: ____/____/____

Is project in Wetlands Board jurisdiction?	Yes	No
Non-vegetated (between MLW and MHW)	_____	_____
Vegetated (1.5 times mean tide range)	_____	_____

Is project exempt from Wetlands Board hearing? _____

What reason for exemption? _____

(private single-user piers; private recreation; grazing, haying, forestry; research by VMRC, VIMS, DGIF; aids to navigation authorized by government; emergency measures to protect public health; maintenance/repair or addition to pre-existing roads, highways, RR beds or facilities PROVIDED no waterway is altered or additional wetlands are covered; government activities in wetlands; normal maintenance of pre-existing man-made drainage ditches PROVIDED no additional wetlands are covered).

SECTION FOR APPLICANTS

Applicant Name: _____

Project Type (revetment, bulkhead, etc): _____

Project Address: _____

Tax Map/Parcel #: _____

VIMS Report #: _____

Purpose Statement:

This form is to be used for the review of all shoreline erosion control projects that involve land disturbance or removal of vegetation in the Resource Protection Area (RPA). Generally, the purpose of this Water Quality Impact Assessment (WQIA) is to:

1. Identify the impacts of the proposed project on water quality;
2. Ensure that the proposed land disturbance will occur in a manner that will be least disruptive to the natural functions of RPAs;
3. Specify mitigation that will address water quality protection.

Regulatory Authority:

Appendix B-1 of the Regulations states that a water quality impact assessment shall be required for any proposed land disturbance, development or redevelopment within an RPA.

The Regulations require that the local government make a determination that:

- Any proposed shoreline erosion control measures are **necessary**
- The erosion control measures will employ the **best available technical advice**
- **Indigenous vegetation** will be preserved to the maximum extent practicable
- Proposed **land disturbance** will be minimized
- Appropriate **mitigation plantings** are proposed that will provide the required water quality functions of the buffer area
- The project is consistent with the locality's **comprehensive plan**
- **Access** to the project will be provided with the minimum disturbance necessary
- The project complies with **erosion and sediment control** requirements

Submittal Requirements:

In order to adequately review the project, the applicant must provide three (3) copies of a site plan that includes the following information:

- Environmental Site Assessment: To include field-delineated location of the RPA, including the 100-foot buffer area and field-delineated wetlands, if present. Plan to be certified as complete and accurate by a professional engineer or a certified land surveyor. See CBPA Section 5000 (B).
- Landscaping Plan: To include existing vegetation on site; vegetation to be removed; vegetation to be replanted to mitigate for impacts to RPA. See CBPA Section 5000 (C). Also, see *Riparian Buffers Modification and Mitigation Guidance Manual*, especially Appendix A (plant lists) and Appendix D (replacement rates).
- Stormwater Management Plan: If deemed necessary by Zoning Administrator. To include location and design of all planned stormwater control devices; process for implementing non-structural practices; Chesapeake Bay calculations, etc. See CBPA Section 5000 (D).
- Erosion and Sedimentation Control Plan: Plan to meet requirements of Chapter 6 of the Isle of Wight County Code on erosion and sedimentation control. To include method and extent of site access and to include limits of clearing and grading. See CBPA Section 5000 (E).
- The plan should also indicate MLW, MHW, MHW x 1,5 and if present any sand dunes or beach areas.
- Project construction plans shall be certified as complete and accurate by a professional shoreline engineer or other qualified professional, as well as a determination of the necessity of the project.

Other Requirements:

- Written documentation from a reputable source (best available technical advice) that:
 - (1) Describes the nature and extent of the erosion problem on site,
 - (2) Provides the justification (need) for the project, **and**
 - (3) Provides the basis for selecting the proposed erosion control method.
- Copy of the Joint Permit Application
- Location and method of construction access
- Area of disturbance this includes but not limited to project area disturbance, construction access, pathways, and staging. please indicate length, width, and square footage
- A buffer mitigation plan (re-vegetation plan) and long term maintenance plan.
- **Proposed Mitigation:**

Project Evaluation:

Necessity:

Note: The Bay Act Regulations that an erosion control method be “necessary” originates from the official Wetlands Guidelines manual prepared by VMRC and VIMS. One of the required criteria is that that “shoreline protection structures are justified only if there is active, detrimental shoreline erosion which cannot be otherwise controlled. New legislation requires agencies to approve only living shoreline approaches to shoreline stabilization unless those approaches are not suitable. Needless shoreline modification is therefore discouraged.” Therefore, there must provide documentation that the proposed shoreline erosion control method is necessary and consistent with the scale of the erosion problem on the site. The following information should be analyzed to make that determination:

Best available technical advice:

1. What technical advice did you base the proposal on? (check one)
 - a. ☐ SEAS
 - b. ☐ VIMS
 - c. ☐ Other (shoreline engineer, erosion control specialist, etc.)

Please describe and submit supporting documentation: _____

Preservation of vegetation:

Amount of existing woody vegetation: _____ ft.²

Woody vegetation proposed to be cleared: _____ ft.²

Minimization of land disturbance: Disturbed area: _____ ft.²

Project Access:

Type of access proposed? (water/land)

Area of disturbance required for access: _____ ft.²

Will this project require any of the following? circle all that are applicable

A. *Excavation* B. *Fill* C. *Grading*

if so please explain: _____

Total area of disturbance to include project area and construction access and all other areas of disturbance _____ ft²

Mitigation plantings proposed: ***based on total area of disturbance.*** Square footage of vegetative mitigation should be based on the state “Riparian Buffers Modification and Mitigation Guidance Manual.” Each planting unit covers 400 square feet and includes 1 canopy tree, 2 understory trees and 3 small shrubs (or equivalent; see Appendix D). The mitigation is to consist of native plants.

Description of the proposed vegetative mitigation plan: _____

Compliance with Erosion and Sediment Control Regulations:

Have you demonstrated compliance with the local E&S control regulations? please explain how

Consistency Checklist SECTION FOR LOCALITY

REQUIRED CONDITION	Y/N	If “NO”, list conditions that must be addressed for consistency
The proposed shoreline erosion control measures are necessary and consistent with the nature of the erosion problem on the site.		
The “best available technical advice” has been used in the selection, planning, and design of the erosion control project.		
Indigenous vegetation will be preserved to the maximum extent practicable.		
Proposed land disturbance has been minimized		
Appropriate mitigation plantings have been proposed that will provide the required water quality functions of the buffer area (<i>Please refer to the Buffer Guidance Manual for assistance. Lawn grass is not appropriate as a replacement planting</i>)		

The project is consistent with the comprehensive plan.		
Access to the project will be provided with the minimum disturbance necessary.		
The project will comply with all erosion and sediment control requirements.		

Final Determination

The proposed erosion control method and project is:

_____CONSISTENT _____ INCONSISTENT with the Bay Act Regulations.