



# Water Quality Impact Assessment

## Shoreline Erosion Control Project

*County of Mathews, Virginia*  
*Department of Planning and Zoning*

Application Date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
Month Day Year

VMRC Number \_\_\_\_\_

Physical (911 Address) \_\_\_\_\_  
Street Address Tax Map Parcel Number

Applicant Name: \_\_\_\_\_

Applicant Mailing Address: \_\_\_\_\_  
Street Address City State Zip Code

Applicant's Phone Number: \_\_\_\_\_

Applicant's Email Address: \_\_\_\_\_

Agent's Name: \_\_\_\_\_

Agent's Phone Number: \_\_\_\_\_

**Brief Project Description:**

**Check all that apply or supply quantities for the following:**

- |   |  |                                       |
|---|--|---------------------------------------|
| <input type="checkbox"/> Riprap Revetment | <input type="checkbox"/> Bulkhead      | <input type="checkbox"/> Vegetation   |
| <input type="checkbox"/> Breakwater       | <input type="checkbox"/> Gabion Basket | <input type="checkbox"/> Tree Removal |
| <input type="checkbox"/> Marsh Sill       | <input type="checkbox"/> Groin         | <input type="checkbox"/> Re-grading   |
| <input type="checkbox"/> Coir Log         | <input type="checkbox"/> Swale         | <input type="checkbox"/> Fill         |
| <input type="checkbox"/> Other            |  |                                       |

**Will the project require any of the following?**

- Excavation       Filling       Grading

**Existing Site Conditions:**

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Heavily Wooded  | <input type="checkbox"/> Stream           | <input type="checkbox"/> Bard soil               |
| <input type="checkbox"/> Sparsely Wooded | <input type="checkbox"/> Ravine or Ditch  | <input type="checkbox"/> Eroding soils/shoreline |
| <input type="checkbox"/> No Trees        | <input type="checkbox"/> Grass/Lawn       | <input type="checkbox"/> Waterfront Property     |
| <input type="checkbox"/> Marsh/Swamp     | <input type="checkbox"/> Understory/brush | <input type="checkbox"/> Paved                   |
| <input type="checkbox"/> Other           |   |  |

**Impacts on Existing Vegetation in RPA:**

- Number of trees greater than 3" in diameter removed within 50 feet of shoreline
- Number of trees greater than 6" in diameter removed for construction access
- Approximate square footage of understory/brush/leaves/needles removed
- Number of trees to be heavily pruned
- Number of dead or diseased trees removed
- Other: \_\_\_\_\_

**Proposed Methods to Minimize Site Impacts:**

- Tree protection/barriers
- Single construction/access way
- Stockpile construction materials and debris on hard surfaces
- Barriers to define limits of construction activity/land disturbance
- Other methods - describe:

**Proposed Mitigation Measures:**

- Vegetation replacement:
  - Trees
  - Mulch of pine needles/bark
  - Shrubs
- Number of new trees proposed
- Number of new shrubs proposed
- Number of new ground cover plants proposed
- Erosion and sediment control structures utilized:
  - Temporary seeding
  - Silt fence
  - Construction entrance
  - Construction barrier/fencing
  - Other:

**Describe the nature and extent of the erosion problem on the site:**

---

---

---

---

**Provide the justification (need) for the project:**

---

---

---

---

**Provide the basis for selecting the proposed erosion control method:**

---

---

---

---

**Are you seeking or have you already obtain permits from other local, state or federal agencies in conjunction with this project?  Yes  No**

**If yes, describe:**

---

---

---

---

**ATTACH plan with the following information** (You may use the plan view drawing submitted with the Joint Permit Application):

- **Plan view with dimension of lot and location of any existing buildings, driveways, decks, sidewalks, etc.**
- **Location and method of construction access**
- **Two benchmark distances to each endpoint of the project and at 50 foot intervals**
- **Location of sewage disposal system**
- **Location of shoreline, wetlands, stream and Resource Protection Area boundary**
- **Location and dimensions of proposed project**
- **Area of land disturbance, clearing, grading and/or fill**
- **Erosion and sediment control measures**
- **Location and dimensions of BMP and other supporting calculations**
- **Location of permanent signs and temporary construction fencing**
- **Location, type and size of existing trees and vegetation in the RPA**
- **Designation of trees to remain and trees to be removed in the RPA**
- **Buffer restoration and replacement planting location and detail**

**Official Use Only**

**Recommendations:**

---

---

**Impact on RPA buffer:**

---

---

**Approved with the following conditions:**

---

---

---

**Approved as requested.**

**Date:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

## **Purpose Statement:**

This form is to be used for the review of all shoreline erosion control projects that involve land disturbance and/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 shoreline erosion control project on water quality.
2. Ensure that the proposed land disturbance (clearing of trees, grading of land, etc.) will occur in a manner that will be least disruptive to the natural functions of RPAs.
3. Specify mitigation (including the use of buffers, vegetation, and storm water management plans), if necessary, that will address water quality protection.

## **Regulatory Authority:**

Section 22.10 and Section 22.11 of the County of Mathews Ordinance requires a water quality impact assessment for any proposed land disturbance with an RPA, including the 100-foot buffer area (the most environmentally critical area).

The regulations require that the County of Mathews make a determination that:

- The proposed shoreline erosion control measures are necessary
- The erosion control measures will employ the best available technical advice
- Indigenous vegetation (native and pre-existing vegetation) will be preserved to the maximum extent practicable
- Proposed land disturbance will be minimized; ensuring that the access to the project (roads/paths used/created for and during construction) will be provided with the minimum disturbance necessary
- Appropriate mitigation plantings are proposed that will provide the required water quality functions of the buffer area
- The project is consistent with the current County of Mathews Comprehensive Plan
- The project complies with all erosion and sediment control requirements