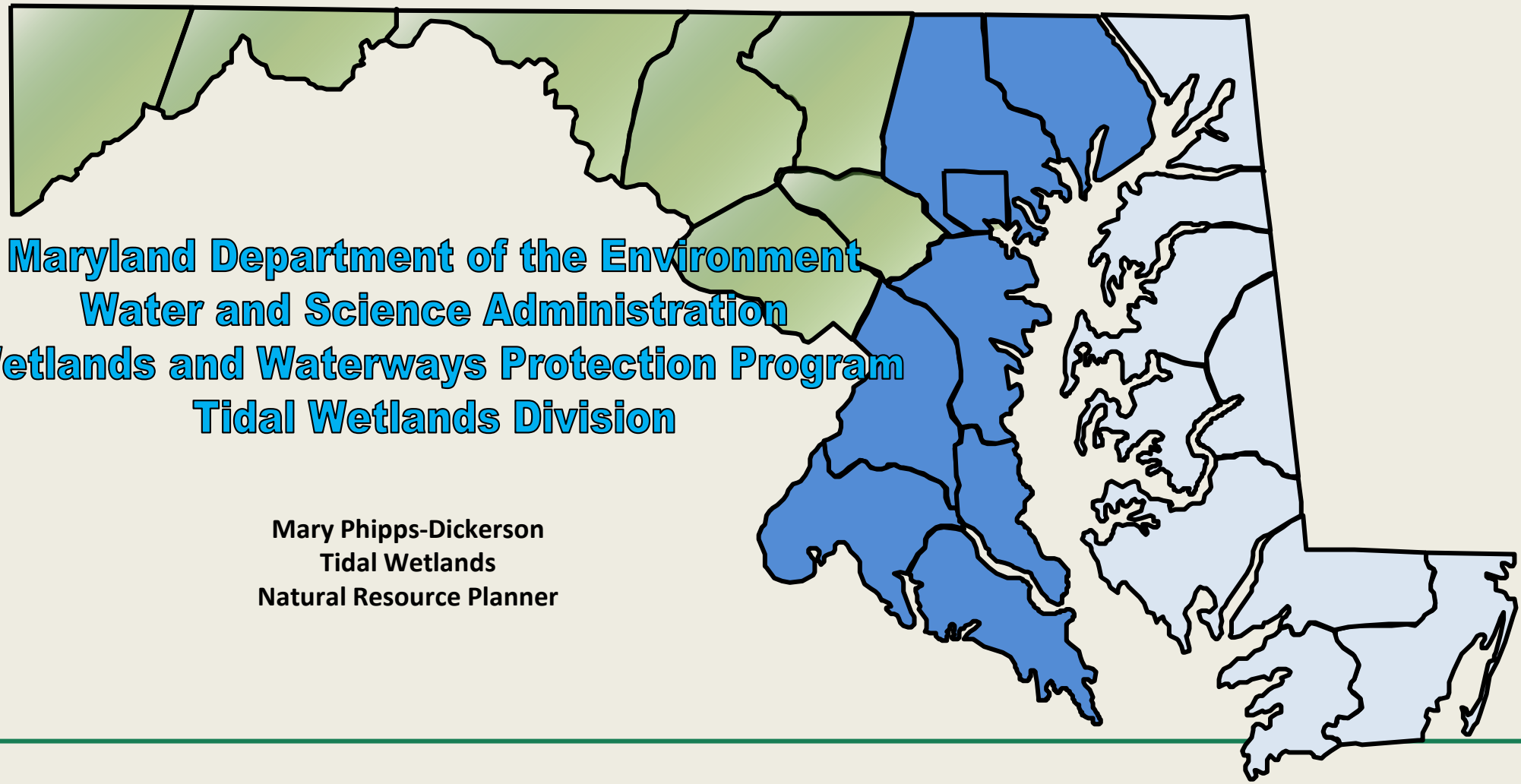
Maryland
Department of
the Environment

Maryland Shoreline Stabilization Mapper



Maryland Department of the Environment
Water and Science Administration
Wetlands and Waterways Protection Program
Tidal Wetlands Division

Mary Phipps-Dickerson
Tidal Wetlands
Natural Resource Planner

Living Shoreline Protection Act

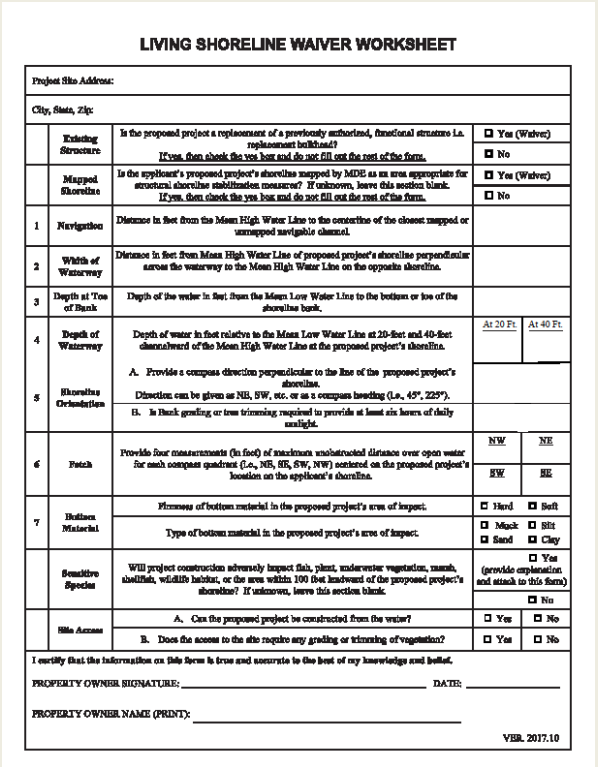
- The Living Shoreline Protection Act was passed by the Maryland General Assembly during the 2008 Legislative Session.
- In February of 2013, tidal regulations for living shorelines were formalized.
- When considering a shoreline stabilization project, a property owner must first consider a method that consists of marsh creation or other nonstructural shoreline stabilization measure.

Living Shorelines Protection Act

The stabilization project should be dominated by tidal wetlands vegetation and designed to preserve the natural shoreline, minimize erosion and establish aquatic habitat

Living Shoreline Waiver

- An applicant may seek a waiver to the requirement:
  - Living Shoreline Waiver Request
  - DNR's Chesapeake & Coastal Services / Coastal Engineer
  - Shoreline is mapped as an area appropriate for structural shoreline stabilization measures



LIVING SHORELINE WAIVER WORKSHEET

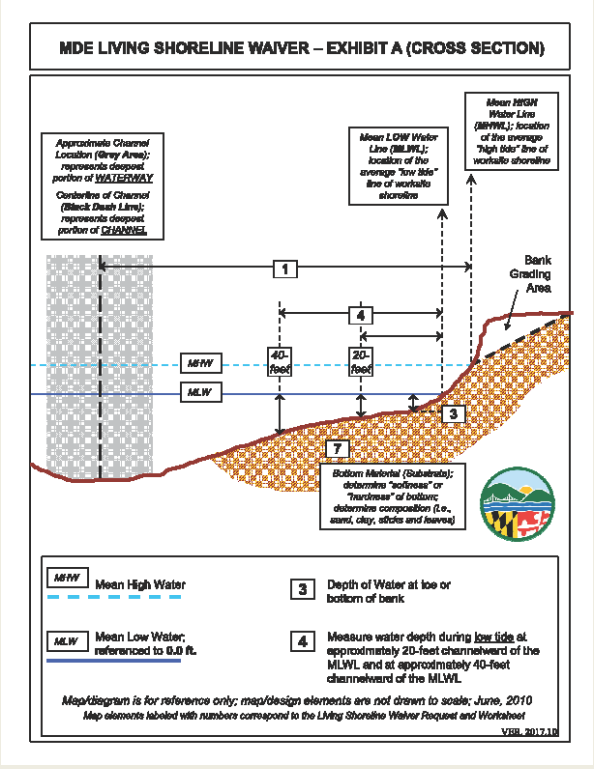
Project Site Address:			
City, State, Zip:			
	Existing Structure	Is the proposed project a replacement of a previously authorized, functional structure i.e. replacement bulkhead? If yes, then check the yes box and do not fill out the rest of the form.	☐ Yes (Waiver) ☐ No
	Mapped Shoreline	Is the applicant's proposed project's shoreline mapped by MDE as an area appropriate for structural shoreline stabilization measures? If unknown, leave this section blank. If yes, then check the yes box and do not fill out the rest of the form.	☐ Yes (Waiver) ☐ No
1	Navigation	Distance in feet from the Mean High Water Line to the centerline of the closest mapped or unmapped navigable channel.	
2	Width of Waterway	Distance in feet from Mean High Water Line of proposed project's shoreline perpendicular across the waterway to the Mean High Water Line on the opposite shoreline.	
3	Depth at Toe of Bank	Depth of the water in feet from the Mean Low Water Line to the bottom or toe of the shoreline bank.	
4	Depth of Waterway	Depth of water in feet relative to the Mean Low Water Line at 20-feet and 40-feet channelward of the Mean High Water Line at the proposed project's shoreline.	At 20 Ft. / At 40 Ft.
5	Shoreline Orientation	A. Provide a compass direction perpendicular to the line of the proposed project's shoreline. Direction can be given as NE, SW, etc. or as a compass bearing (i.e., 45°, 225°).	
		B. Is bank grading or tree trimming required to provide at least six hours of daily sunlight.	
6	Fetch	Provide four measurements (in feet) of maximum unobstructed distance over open water for each compass quadrant (i.e., NE, SE, SW, NW) centered on the proposed project's location on the applicant's shoreline.	NW / NE / SW / SE
7	Bottom Material	Firmness of bottom material in the proposed project's area of impact.	☐ Hard ☐ Soft
		Type of bottom material in the proposed project's area of impact.	☐ Muck ☐ Silt ☐ Sand ☐ Clay
	Sensitive Species	Will project construction adversely impact fish, plant, underwater vegetation, marsh, shellfish, wildlife habitat, or the area within 100 feet landward of the proposed project's shoreline? If unknown, leave this section blank.	☐ Yes (provide explanation and attach to this form) ☐ No
	Site Access	A. Can the proposed project be constructed from the water?	☐ Yes ☐ No
		B. Does the access to the site require any grading or trimming of vegetation?	☐ Yes ☐ No

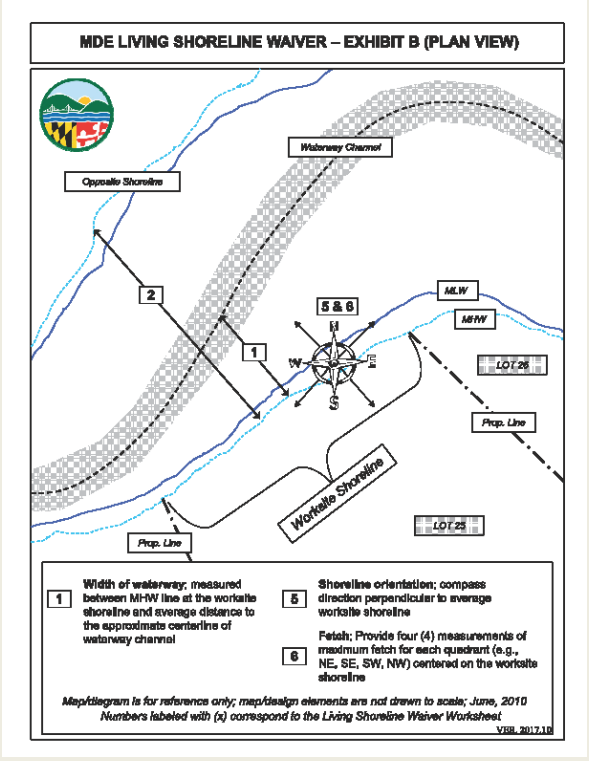
I certify that the information on this form is true and accurate to the best of my knowledge and belief.

PROPERTY OWNER SIGNATURE: _____ DATE: _____

PROPERTY OWNER NAME (PRINT): _____

VER. 2017.10





Previous Structural Shoreline Stabilization Maps

NEW Shoreline Stabilization Mapper (MSSM)

Need for more refined maps

VIMS developed a tool where the model output delineates areas suitable for LS and areas where waivers are appropriate

Shoreline Stabilization Mapper (MSSM)

https://cmap22.vims.edu/MSSMTool/index.html

Questions?