

Mid-Atlantic Living Shorelines Summit

December 10 – 11, 2013



The Living Shoreline A Best Mgt Practice

Environmental Concern www.wetland.org

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Environmental Concern Inc.

Public not-for-profit corporation
doing business in St. Michaels for 42 years

Mission – improve water quality and enhance habitat by promoting

- Restoration of wetlands and the creation of new wetlands,
- Stewardship of wetlands through education and outreach
- Native species horticulture





Practitioners...

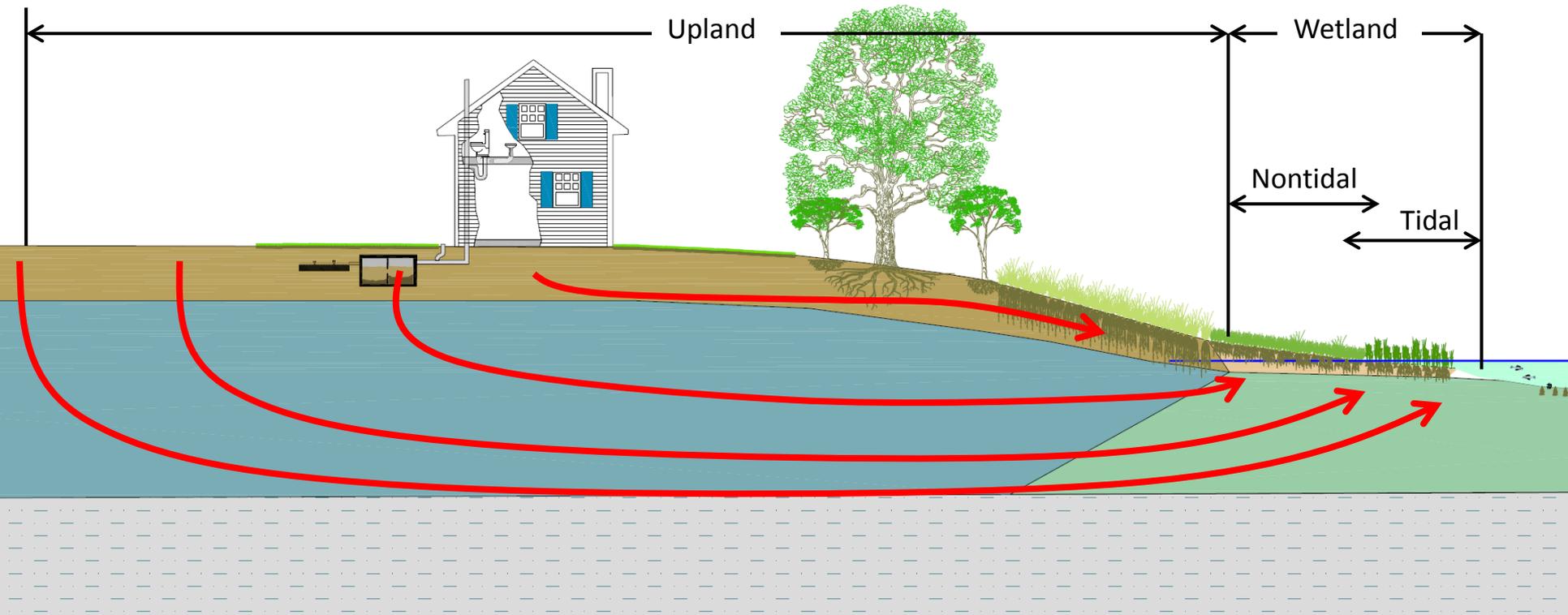
Who still get wet and muddy!

Living Shoreline Defined

Living Shoreline: Vegetated, tidal wetland, restored or constructed at the terrestrial/aquatic interface in order to recreate the natural functions of a shoreline ecosystem and stabilize the existing bank”



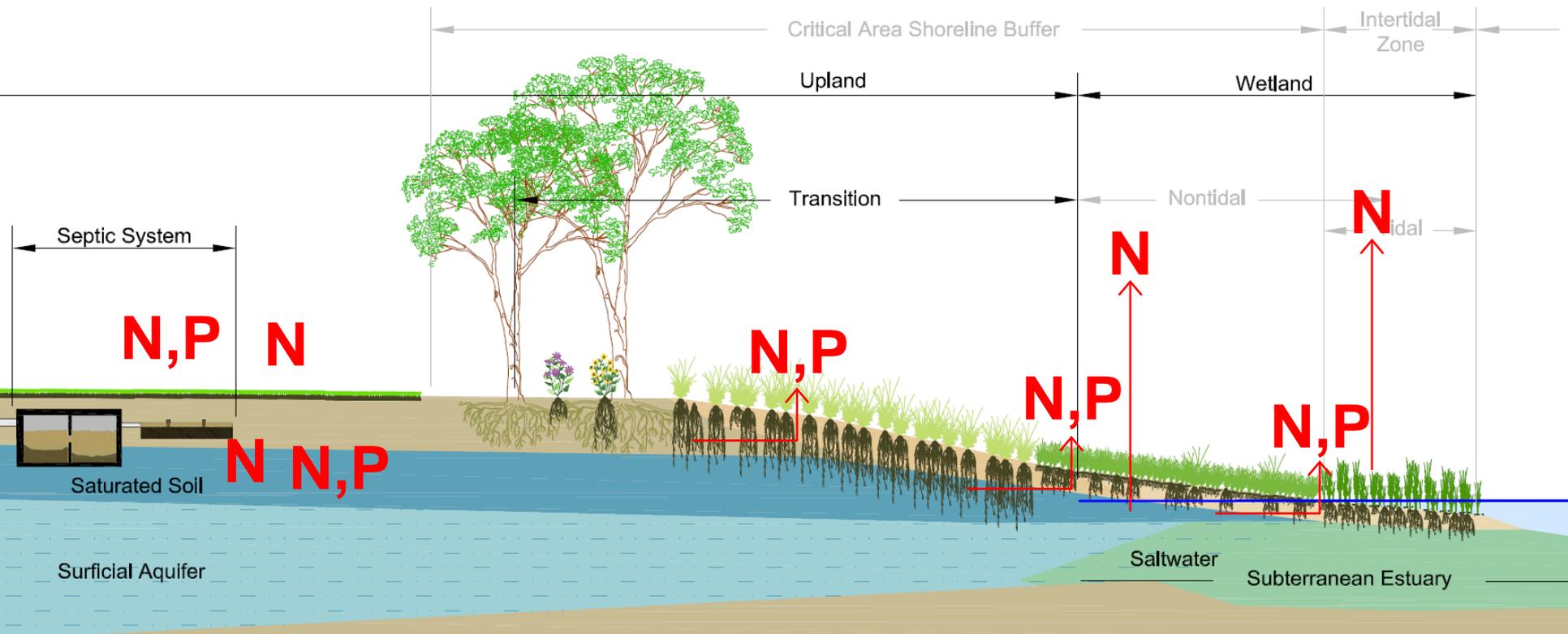
Nutrient Transport Through Surficial Aquifer (Ground-water)



Nitrate transport into tidal streams is often dominated by direct recharge through sediments in the intertidal zones, with most groundwater moving 6 feet below the ground surface.

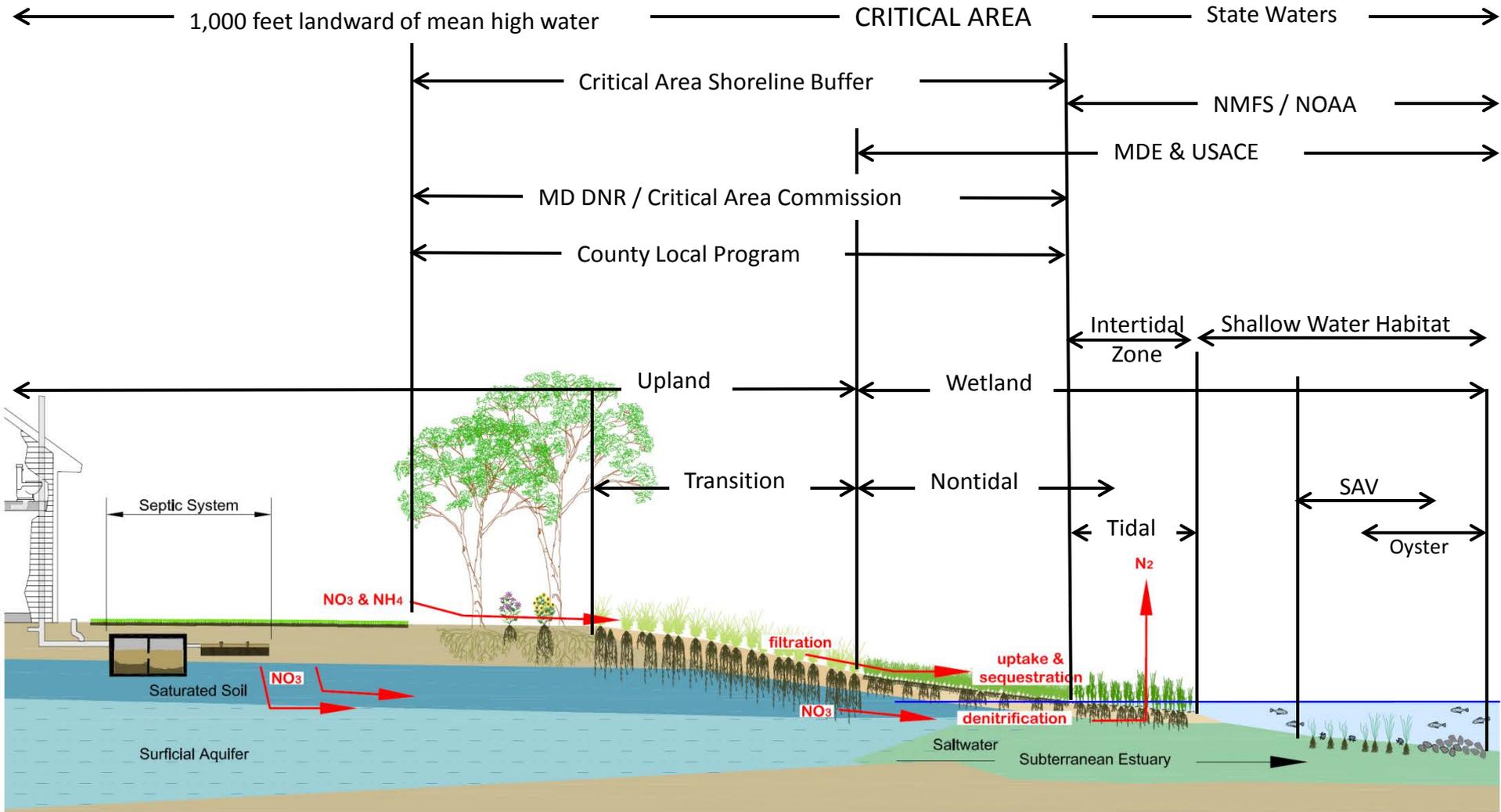
Chesapeake Bay Program 1995

Nutrient Removal

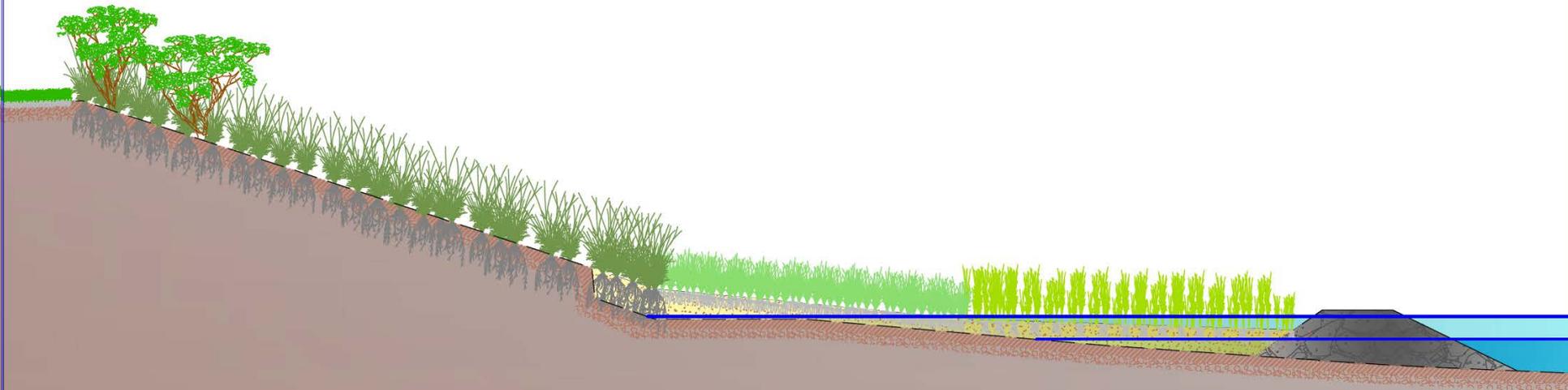


- Filtration
- Uptake & Sequestration
- Denitrification

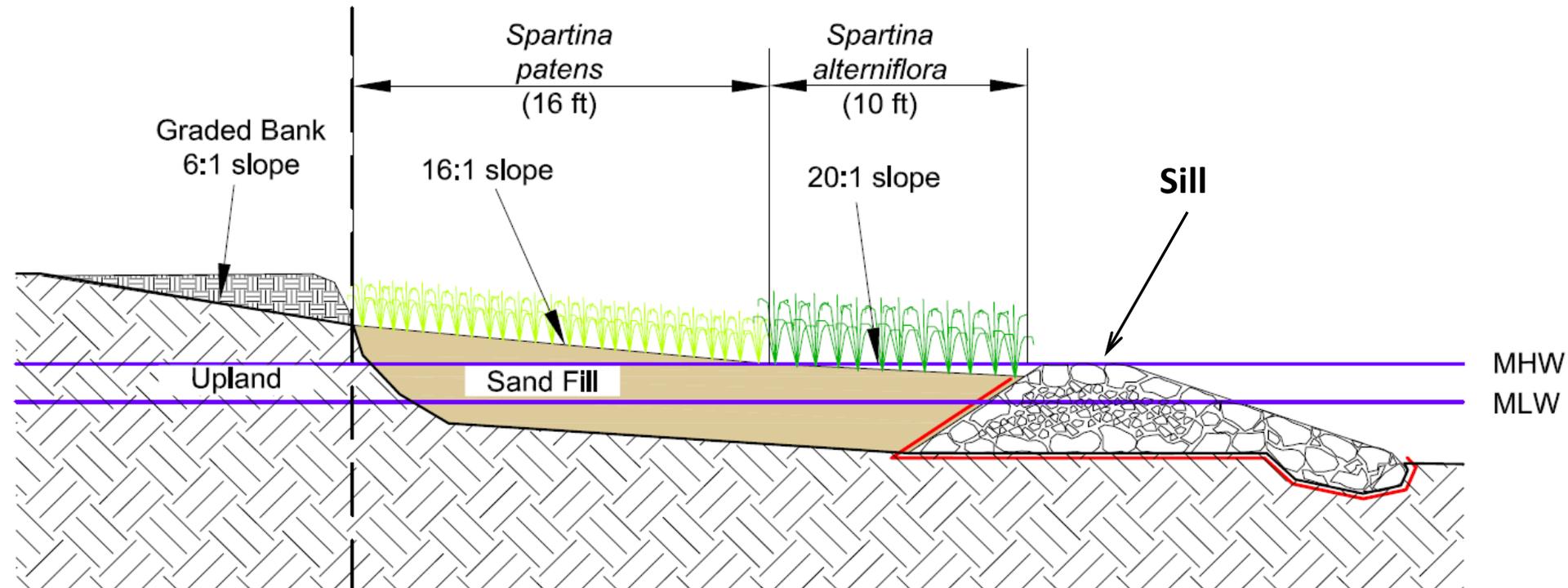




Permitting Process

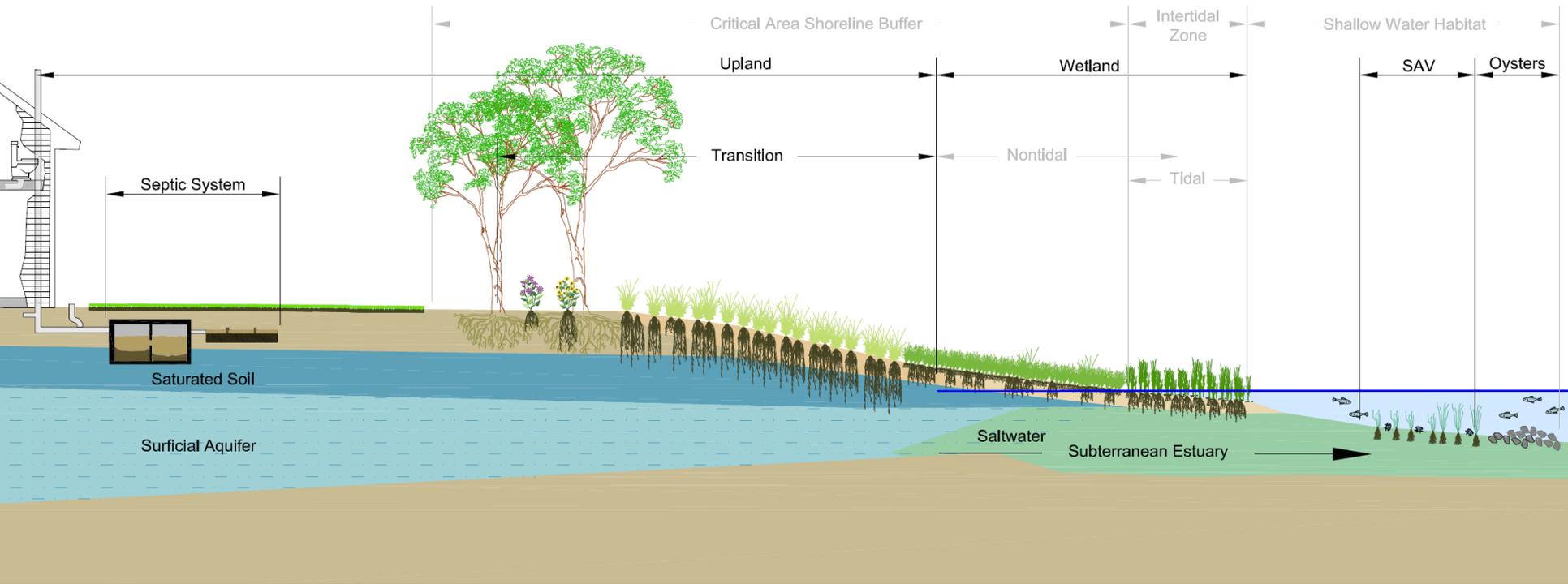


Living Shorelines Components



Living Shorelines Components-Sill







Tilghman Island Farm

Tidal Marsh Creation: 2.3 acres

Living Shoreline: 2,580 lin.ft.



Tilghman Island Farm

Before



Tilghman Island Farm

Fetch













**Wye House Farm
Living Shoreline**











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Ordinary Point











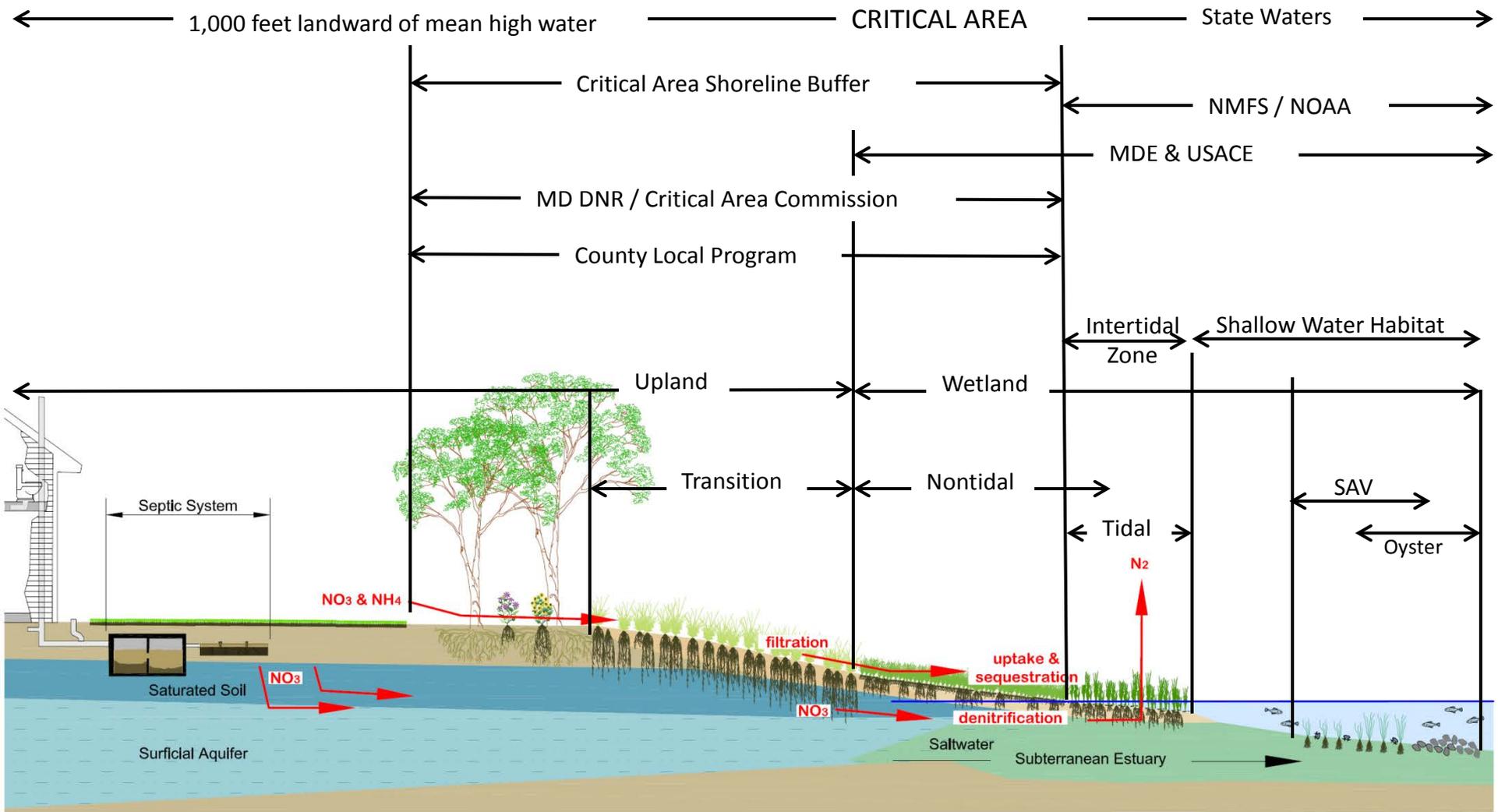
Fishing Bay











The Regulations



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