SEVERN HOUSE AND ST. LUKE’S TOUR
JUNE 28, 2017

- Led by DNR’s Claudia Donegan
- Toured Cabin Branch, Wilelinor and Pines on the Severn Bay Restoration Projects
- All projects designed and built by Underwood & Associates
CABIN BRANCH UPLAND CASCADE

Photo provided by Underwood & Associates
(taken after a storm event)

- Drainage of Annapolis Shopping Mall, Sam's Club, and Bowling Alley at Generals Hwy and Bestgate Road
- 2000 Linear Feet of regenerative stream
CABIN BRANCH STEP POOL
WATER MOVES BENEATH THE SURFACE THROUGH POROUS WEIRS CREATING NATURAL STREAM CONDITIONS FOR MICROBIAL AND MACRO ORGANISMS TO EXIST. BRINGING ECOSYSTEM INTO BALANCE BY SLOWING DOWN, SOAKING IN, AND SPREADING OUT THE STORMWATER FLOW, STORMWATER IS MANAGED AND POLLUTANTS NATURALLY TREATED.
This vegetated pool illustrates the different appearances of regenerative stormwater conveyance (RSC). A natural log walkway facilitates a path for visitors while contributing to ecosystem nutrition.

We heard frogs, saw dragonflies, turtles, abundant birds, butterflies, etc. among the lush native plants and RSC scapes.

No mosquito bites were experienced due to natural predators and porous moving step pools.
WILELINOR

A nature lovers playground
Nicely landscaped transition from the development to the project.

Paths leading to the RSC and ponds are well maintained.

The thick, lush woodland is an example of mature Bay restoration projects.
Haul road is a converted porous path with lush, mature native landscaping between fish ponds and the RSC.

The path/berm creates seepage to the RSC keeping water moving below surface in the ponds.

The path also features spill ways leading into the RSC.
At the outfall (hidden behind the greenery in the background)

Note the Buttonbush in the foreground and clear water

Fish thrive here in addition to frogs and other aquatic life

There is an invasive water plant that DNR is watching and will be controlled if it doesn’t expire from its own life cycle. (source: people emptying fish tanks)
Turtles getting some sun

Again the sound of frogs and sight of dragonflies with no mosquitoes.

Despite the look of still water in this section, we know water moves beneath the surface via regenerative features of the RSC.
The Beauty and Pleasure Found Within Bay Restoration
PINES ON THE SEVERN
winter photo courtesy of the community

- Living shoreline replaces a failing seawall, stops erosion on the hillside, brings a community together, and restores habitat for aquatic species and humans.
PINES ON THE SEVERN

- Claudia Donegan addresses the tour group on benefits of this best management practice: stabilizes erosion, provides quality habitat for wildlife, aquatic species and humans, and enhances property value through beauty.

- The community representative confirmed that the contractor/inspectors allowed no sand seepage during construction.

- Stable through 3 years of storm activity with no silting and no bank erosion. Built for the 100 year storm as are all Bay restoration projects.
A living shoreline expands the community’s waterfront recreational area. In this case a failing seawall was removed and replaced with expanded beach front from native Chesapeake sand and cobble brought to the site. Boulders and logs are used to contribute to the holding power of deep rooted spartina grass in this high energy cove with direct frontage to the Severn River.
This living shoreline included a tall piling with nest holding structure for osprey. Design success! Fledglings in the nest!
Our group enjoying the beauty of summer day strolling on a living shoreline over 600 linear feet along the community beach.

Fish, crabs and other shellfish are thriving. Even horseshoe crabs have returned.

Heavy planting and boulders stabilize the steep bank that once was eroded under and over the failing seawall.