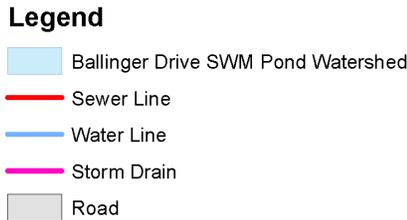
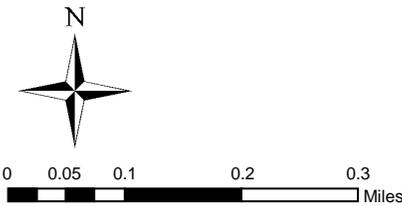
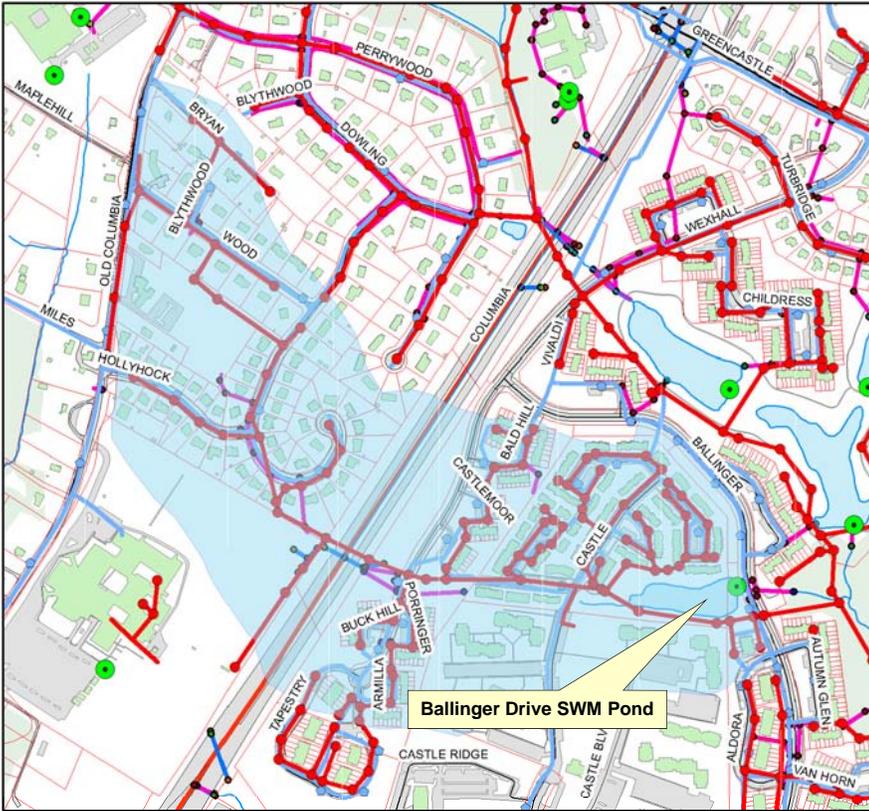
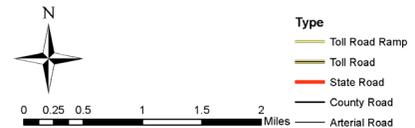
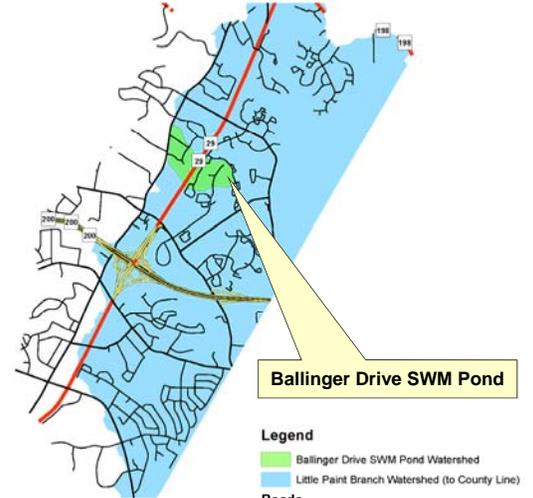


Stormwater Management Facility Retrofit FACT SHEET: Ballinger Drive Stormwater Management Pond

Retrofit Project View



Watershed View



Ballinger Drive Stormwater Management Facility Facts:

Drainage Area: 100 acres
Impervious Cover: 27 acres
Property Ownership: Greencastle Lakes Community Association and Council of Unit Owners, Ventura, a Townhouse Condominium
Watershed: Little Paint Branch

Restoration Goals:

Upgrade stormwater pond to meet current Maryland Department of the Environment (MDE) stormwater management regulations, repair and upgrade pond infrastructure to meet current safety standards, improve aquatic and wetland vegetation in stormwater pond.

Stormwater Management Facility Retrofit Project Facts:

Limits of Disturbance: 3 Acres
Project Status: Final Design
Construction Start: Summer 2016
Construction End: Spring 2017

Project Selection

Montgomery County has a continuing commitment to protect and improve its water resources. *The Countywide Stream Protection Strategy*, (CSPS, 1998, updated 2003), published by the Department of Environmental Protection (DEP), evaluated biological, chemical, and habitat conditions of streams in the county, and identified impaired "priority" sub-watersheds for restoration. This stormwater facility was identified for retrofit in

the Paint Branch Watershed Implementation Plan which details how the county will meet its MS4 permit requirements.

The Ballinger Drive Stormwater Management Pond requires a retrofit to improve its overall maintenance condition, exemplified by the failure of an abandoned spillway pipe and the draining of the pond in 2012. The pond does not fully comply with current stormwater management and safety standards.

Pre-Retrofit Conditions

The stormwater management pond is located on Ballinger Drive between Wexhall Drive and Robey Road in Silver Spring, and drains to a tributary of Little Paint Branch. It was originally a golf course pond as part of the Silver Spring Country Club and was enlarged in the mid-1980s when the property was redeveloped. Ballinger Drive runs along the dam embankment, which is 17 feet tall. Before the pond drained in 2012, the

permanent wet pool depth was approximately 13 feet at the deepest point. Currently, the pond lacks a safety bench as well as protection from wave erosion on the upstream side of the dam.

Ownership of the pond is shared by two communities: Ventura to the west, which includes most of the permanent pool and upstream area, and Greencastle Lakes to the east, which includes the riser structure and dam embankment.



LEFT: The existing riser outlet structure is not designed to meet current stormwater management standards. It will be modified in place to meet those standards.

BELOW: Native vegetation will be provided around the periphery of the permanent pool to improve the aquatic habitat of the pond.

Proposed Retrofit Actions

Improvements to the pond will include:

- Restore the permanent pool, with a new maximum depth of 9.5 feet.
- Pour concrete to fill and permanently abandon the old drain pipe that caused the pond to drain in 2012.
- Modify the riser structure to meet current state and county stormwater criteria.
- Install an impervious liner and erosion protection on the upstream side of the dam.
- Install a forebay at the upstream end of the pond.
- Landscape with native plants around the permanent pool.
- Install a 15 foot wide safety/maintenance access/planting bench around the pond.



Construction activities will have minor impacts on Ballinger Drive and appropriate traffic control measures will be used during construction. Standard erosion and sediment control practices will be provided to control dust and muddy water runoff.

The pond will remain completely drained during construction for the safety of the workers and to accelerate construction. It will be refilled after construction is complete. Safety fencing will be in continuous use for pedestrian and worker safety until construction is complete.

LEFT: The failed drain pipe that caused the pond to drain in July 2012 will be filled with concrete to permanently abandon it. The pond will be re-filled to approximately the same level as before.



For more information:

Contact: Darian Copiz / 240-777-7774 / darian.copiz@montgomerycountymd.gov
 Department of Environmental Protection / Division of Watershed Management
 255 Rockville Pike, Suite 120, Rockville, MD 20850
www.montgomerycountymd.gov/dep