

# Storm Water Management Facility Retrofit FACT SHEET:

## Meadowvale Pond B



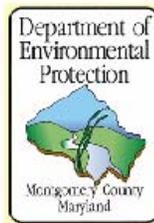
Meadowvale Pond B



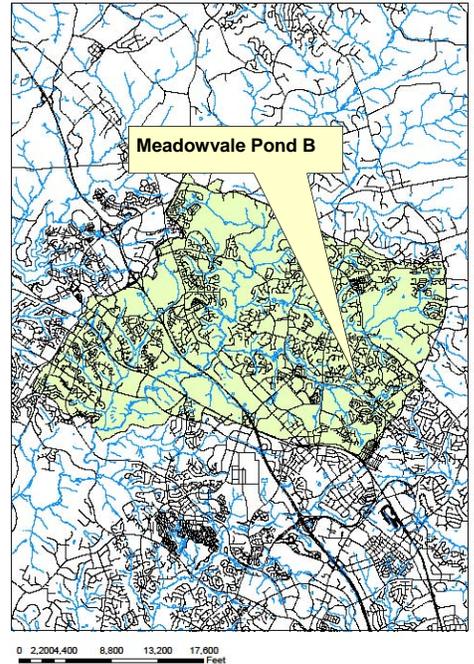
0 125 250 500 750 1,000 Feet

**Legend**

- SWM FACILITY ASSET
- STREAM/LAKE
- DRAINAGE AREA
- PROPERTY LINE



MIDDLE GREAT SENECA CREEK WATERSHED



**Meadowvale Pond A Storm Water Management Facility Facts:**  
 Drainage Area: 56.8 acres (0.089 sq.mi.)  
 Impervious Cover: 11.9 acres (21%)  
 Property Ownership: Meadowvale Home Owners Association  
 Watershed: Middle Great Seneca Creek

**Restoration Goals:**

Upgrade storm water pond to meet current MDE storm water management regulations, repair and upgrade pond infrastructure to meet current safety standards, improve aquatic and wetland vegetation in storm water pond.

**Storm Water Management Facility Retrofit Project Facts:**

Limits of Disturbance: 3.2 Acres  
 Project Status: Conceptual Design  
 Estimated Start Date: May 2012  
 Estimated Completion Date: July 2012

**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. These storm-water facilities were identified for retrofit

in the Great Seneca Watershed Implementation plan which details how the county will meet its MS4 permit requirements. Additionally, these facilities were chosen because of their age and need for maintenance.

The Meadowvale Pond B located east of Cross Country Lane meets the feasibility criteria for upgrading the storm water management pond. The Department of Environmental Protection's storm water management maintenance section identified

the facility as being a good candidate for update to current standards

**Pre-Retrofit Conditions**

Meadowvale Pond B was developed prior to current regulations for storm water management control. Uncontrolled storm water runoff from highly impervious areas creates erosive, high velocity or "flashy" storm water that cause damage to receiving streams and contribute significant sources of pollutants to local streams.

The existing storm water management pond has sufficient room for storage; however, the control structure was not designed to meet current Maryland Department of the Environment (MDE) storm water management standards nor current pond design standards for safety.



**LEFT:** Existing corrugated metal pipe riser that needs to be replaced with cast-in-place concrete riser with proper outlets to provide the required storm water management.

**BELOW:** Additional native planting to be provided around the periphery of the permanent pool to improve the aquatic habitat of the pond.



### Proposed Retrofit Actions

Expected construction activities for the retrofit are:

- Replacement of the existing metal riser structure with cast-in-place concrete riser
- Landscaping with native plants around the wet pool
- Stabilization of storm drain outfall locations with appropriate riprap stone to prevent erosion from storm water
- Re-aligning part of the side walk along the pond away from the 100 year water surface flood elevation
- Slip lining the 36" culvert pipe to repair corrosion in the pipe.
- Removal of accumulated sediments to remove pollutants and provide additional storage volume (If the second option is selected)

None of the construction activities have any impact on local traffic. Appropriate erosion and sediment control measures will be provided to control dust and muddy water runoff. The pond will need to be either partially or completely drained during construction for the safety of the workers.

**RIGHT:** The 36" CMP pipe needs to be slip lined to repair defects observed during field inspection.



### For more information:



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