Chadswood Storm Water Management Facilities Facts:
Combined Drainage Area: 323.54 acres (0.506 sq.mi.)
Combined Impervious Cover: 45.046 acres (13.9 %)
Property Ownership: Chadswood Homeowner’s Association
Watershed: Great Seneca Creek
Middle Great Seneca Creek - Asset #10803

Chadswood Regional Stormwater Management Pond

Restoration Goals: Repair structural problems found at the facility. Upgrade storm water ponds to meet current Maryland Department of the Environment (MDE) storm water management regulations, repair and upgrade pond infrastructure to meet current safety standards.

Pre-Retrofit Conditions & Project Selection
During a routine inspection of the Chadswood Storm Water Management Facility, Montgomery County Department of Environmental Protection (MCDEP) observed several problems. Among the issues observed were: multiple slope failures and sink holes on the upstream side of the dam which expose a spillway pipes, steep slopes on upstream embankment, and a partially blocked low flow pipe.

Montgomery County has a continuing commitment to protect and improve its water resources. Prior to the discovery of the dam’s condition, this stormwater facility was identified for retrofit in the Great Seneca Watershed Implementation plan which details how the county will meet it’s MS4 permit requirements.

The existing storm water management pond has sufficient room for storage; however, the outlet works were not designed to meet current MDE storm water management standards and over time, have both entered a state of disrepair and reached the end of their service life. After noticing the deteriorated condition of the dam and its need for immediate repair, MCDEP determined the dam’s condition is a safety issue and has accelerated the repair and retrofit of the site.

As part the stormwater pond was classified as high hazard dam by MDE. DEP will be responsible for developing and implementation of the Emergency Action Plan.
Site Deficiencies
- Multiple slope failures on upstream embankment
- Original dam embankment was not constructed properly
- Upstream embankment slope is too steep
- Structural failures of the stormwater conveyance pipes
- Sediment and debris collected in pond and in the stormwater conveyance pipes

Proposed Repair & Retrofit Actions
Expected construction activities for the retrofit are:
- Replace the outlet works of the facility
- Properly re-build the dam embankment
- Repair slope failure and re-grade upstream embankment to be flatter
- Rebuild storm drains and other utilities currently located inside the embankment
- Remove accumulated sediment from bottom of pond

Construction Expectations
Construction activities will impact local traffic. For the duration of construction Cross Laurel Drive will be closed in the vicinity of the pond, and traffic to Valley Bend Drive detoured via Brandermill Drive. Appropriate erosion and sediment control measures will be provided to control dust and muddy water runoff. The contractor will be required to adhere to all OSHA safety regulations, the Montgomery County Noise Ordinance, and provide safety barriers and fencing between the construction site and public open spaces to prevent accidental or unauthorized access to the site.

Special care will be taken to minimize the utility impacts on the surrounding communities, however, interruptions in service may occur and will be restored as quickly as possible.