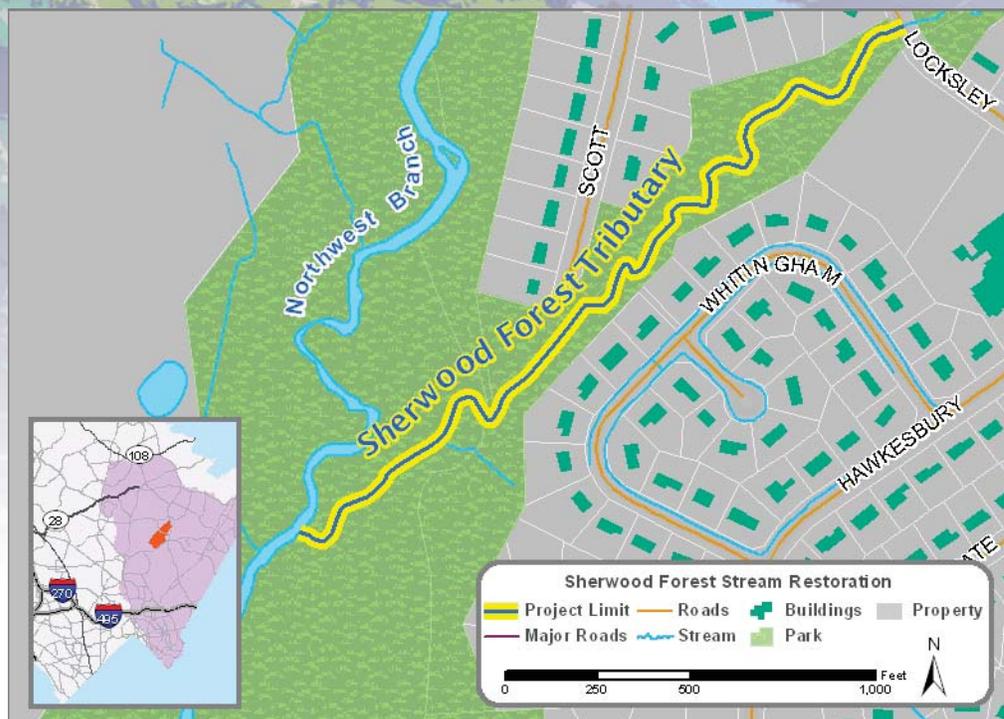




Watershed Restoration FACT SHEET

Sherwood Forest I Stream Restoration



Watershed Facts

Subwatershed Drainage Area : 0.9 square miles
Subwatershed Imperviousness :16%

Property Ownership

Maryland-National Capital Park and Planning Commission

Restoration Goals

To stabilize eroding streambanks to reduce sediment entering the stream, improve aquatic habitat, enhance pool and riffle fish habitat, construct wetlands, create overhead cover for fish, and reforest stream banks for added bank stability and overhead cover.

Restoration Project Facts

Project Length : 0.5 miles
Drainage Area Captured : N/A
Estimated Costs :
Construction \$1,025,000, funded in part by United States Army Corps of Engineers (USACE)

Project Status :

Construction planned for fall 2012 to summer 2013

Stream Monitoring Facts

Pre- and Post- Restoration Monitoring will be conducted following MCDEP Monitoring Protocols.

Stream Restoration Project Location along the Sherwood Forest Tributary of the Northwest Branch

Visit our project website at : <http://www.montgomerycountymd.gov/sherwood>

Project Selection

The Sherwood Forest tributary, along with several other stream reaches, was identified as a priority for restoration in the Northwest Branch Watershed Feasibility Study (July 2000). The Montgomery County Department of Environmental Protection, in collaboration with the Maryland-National Capital Park and Planning Commission and the U.S. Army Corps of Engineers completed three stream restorations for Upper Northwest Branch package 1 in 2011. Upper Northwest Branch package 2 projects include Sherwood Forest, Batchellors Run, and Woodlawn stream restorations, and are planned to be completed fall 2012 to summer 2013.



Sherwood Forest tributary flooding during a large storm event prior to restoration. Storm flows such as this contribute to streambank erosion and degrade aquatic habitat for benthics and fish.



Eroded streambanks like this one will be graded, stabilized, and planted.



Without restoration, streambank erosion will continue to cause tree loss and degrade aquatic habitat.



Proposed wetland creation area alongside the Sherwood Forest tributary will treat stormwater runoff and create valuable habitat for wetland plants and animals.

Pre-Restoration Conditions

Much of the Northwest Branch Watershed was developed prior to regulations requiring stormwater management control, and contains a high percentage of impervious surfaces. Uncontrolled stormwater runoff from highly impervious areas creates erosive, high velocity or "flashy" flows that cause damage to receiving streams.

The Sherwood Forest tributary is characterized by eroded streambanks, unstable sand and gravel channel materials, bar formation (especially around present or former debris jams), low flow conditions, minimal access to floodplain and interaction with wetlands, and a general lack of instream cover for fish.

While the Sherwood site does not currently exhibit serious degradation, there are opportunities, through careful repair and enhancement of habitat, to maintain and improve stream stability that would otherwise continue to deteriorate.

Restoration Actions

Entrance to the site for construction is anticipated from the end of Scott Drive. Restoration activities are planned for approximately 2,500 feet downstream from Locksley Lane to where the stream intersects with the mainstem of the Northwest Branch. Stone toe protection with plantings will help provide streambank stability and shade for instream habitat. Instream structures will include log and rock vanes which direct water away from unstable stream banks, form downstream scour pools, and provide good habitat for fish. Other planned stream habitat features include rock wing deflectors and riffle grade controls. Trees will be planted and vernal pool wetlands and floodplain access will be created to enhance the riparian zone alongside the stream.



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