

# Stream Protection: SVP (P818571)

Category M-NCPPC  
 Sub Category Development  
 Administering Agency M-NCPPC (AAGE13)  
 Planning Area Countywide

Date Last Modified 10/13/14  
 Required Adequate Public Facility No  
 Relocation Impact None  
 Status Ongoing

Total	Thru FY14	Rem FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	981	0	191	790	125	125	132	132	138	138	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	3,009	0	383	2,626	408	408	443	443	462	462	0
Construction	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>3,990</b>	<b>0</b>	<b>574</b>	<b>3,416</b>	<b>533</b>	<b>533</b>	<b>575</b>	<b>575</b>	<b>600</b>	<b>600</b>	<b>0</b>

### FUNDING SCHEDULE (\$000s)

G.O. Bonds	3,990	0	574	3,416	533	533	575	575	600	600	0
<b>Total</b>	<b>3,990</b>	<b>0</b>	<b>574</b>	<b>3,416</b>	<b>533</b>	<b>533</b>	<b>575</b>	<b>575</b>	<b>600</b>	<b>600</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 16	533
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		1,107
Expenditure / Encumbrances		557
Unencumbered Balance		550

Date First Appropriation	FY 81
First Cost Estimate	
Current Scope	FY 16 3,990
Last FY's Cost Estimate	4,226
Partial Closeout Thru	11,422
New Partial Closeout	236
Total Partial Closeout	11,658

## Description

As a result of development in urban and suburban watersheds, stream channels are subject to increased storm water flows that result in severely eroded stream banks. This project makes corrective improvements to damaged stream channels, floodplains, and tributaries in stream valley parks and constructs new stormwater management (SWM) facilities and associated riparian enhancements to improve watershed conditions. Stream erosion problems include stream sedimentation, destruction of aquatic habitat, undercutting of stream banks, blockage of migration routes, loss of floodplain access, tree loss, damage to infrastructure (i.e. bike paths, bridges, utilities, and other improvements). Rock and wood revetments (i.e. cross vanes, J-hooks, riffle grade controls) are used in association with reforestation, floodplain enhancements, and other stream protection techniques (brush bundles, wing deflectors, root wads, etc.) to prevent continued erosion and improve aquatic habitat. Stream protection projects must be examined from a watershed perspective to identify/control the source of problems. If possible new SWM facilities will be built to control water flows prior to entering the stream channel to help the watershed return to a more stable equilibrium. Projects require engineering and permitting by Maryland Department of the Environment, the U.S. Army Corps of Engineers, and Montgomery County's Department of Permitting Services. This project also includes reforestation in stream valley parks.

## Cost Change

Increase due to the addition of FY18 and FY20 to this ongoing project, and includes raising the level-of-effort in FY17-20 to address regulatory requirements, improve recreational experiences and enhance the natural environment.

## Justification

The project meets Montgomery County's water quality goals, Chapter 19, Article IV of the Montgomery County Code: to protect, maintain, and restore high quality chemical, physical, and biological conditions in the waters of the State in the County. This project is also supported by the Countywide Stream Protection Strategy developed by Montgomery County's Department of Environmental Protection (DEP). Many county streams flow through lands managed/owned by M-NCPPC. M-NCPPC performs a stewardship role in protection of these streams and protecting improvements, which are threatened by stream erosion. Comprehensive Watershed Inventories conducted by Montgomery County Department of Environmental Protection with assistance from M-NCPPC.

## Fiscal Note

FY13 transfer in of \$129K GO Bonds from Lake Needwood Modifications #098708.

## Disclosures

Expenditures will continue indefinitely.

## Coordination

Montgomery County Department of Environmental Protection, National Capital Planning Commission for Capper-Cramton Funded Parks, State and County Department of Transportation, State Dept. of Natural Resources, Montgomery County Department of Environmental Protection, PDF 733759, Utility rights-of-way coordinated with WSSC and other utility companies where applicable., U.S. Army Corps of Engineers, Metropolitan Washington Council of Governments