


**Worksession**

**MEMORANDUM**

April 25, 2019

TO: Transportation & Environment Committee

FROM:  Keith Levchenko, Senior Legislative Analyst

SUBJECT: Amendments to the County Government's FY19-24 Capital Improvements Program (CIP) Conservation of Natural Resources: Various Storm Drain and Stormwater Management Projects<sup>1</sup>

PURPOSE: To review and make recommendations on various Storm Drain and Stormwater Management project amendments recommended by the County Executive

**Council Staff Recommendation**

- Approve the Executive's recommended amendments to the Outfall Repair and Storm Drain General projects to revise the funding allocations in each project based on MDE's loan eligibility rules.
- Approve the Executive's recommended amendments to two Stormwater Management projects:
  - Misc Stream Valley Improvements
  - SM Retrofit – Schools.

*NOTE: Several other stormwater management projects were included in the Executive's March 15 transmittal, but no action by the Council is required on these projects at this time.*

**Participants include:**

- Adam Ortiz, Director, Department of Environmental Protection (DEP)
- Patty Bubar, Deputy Director, DEP
- Michelle Hwang, Senior Financial Specialist, DEP
- Frank Dawson, Chief, Watershed Management Capital Projects, DEP
- Trevor Lobaugh, Office of Management and Budget

**Attachments include:**

- Excerpts from the Executive's March 15 CIP Amendment Transmittal (©1-15)

<sup>1</sup> #StormdrainsCIP and Stormwater Management CIP

On March 15, 2019, the County Council received a package of recommended FY19-24 CIP amendments from the County Executive (transmittal memorandum excerpt and project description forms attached on ©1-15). All the amendments included in this package were announced and made part of the Operating Budget public hearings held on April 8, 9, and 10, 2019.

### **Storm Drain Amendments**

#### Outfall Repairs (see project description form (PDF) on ©7)

This project provides for the repair of existing storm drain outfalls into stream valleys. The priorities for this project are developed in coordination with DEP.

As part of the FY19-24 CIP review process last year, this project had its FY19-24 funding (\$2.8 million) switched from Water Quality Protection Bonds to Long-Term Financing through the State's Water Quality Revolving Loan Fund.

The recommended amendment would switch \$892,000 of the six-year expenditures from Long-term Financing to Current Revenue: Water Quality Protection to reflect the Maryland Department of the Environment's loan cost eligibility rules not providing for payment of some planning, design, and supervision costs.

**Council Staff recommends approval of this amendment.**

#### Storm Drain General (see PDF on ©8-9)

This project includes any storm drain projects costing less than \$500,000, as well as funding to address "spot" projects that can be addressed relatively quickly throughout the year.

As part of the FY19-24 CIP review process last year, this project had its FY19-24 funding (\$5.1 million) switched from Water Quality Protection Bonds to Long-Term Financing through the State's Water Quality Revolving Loan Fund.

The recommended amendment would switch \$984,000 of the six-year expenditures from Long-term Financing to Current Revenue: Water Quality Protection to reflect the Maryland Department of the Environment's loan cost eligibility rules not providing for payment of some planning, design, and supervision costs.

**Council Staff recommends approval of this amendment.**

## Stormwater Management Amendments

### Misc Stream Valley Improvements (see PDF on ©5-6)

This project funds the design and construction of restoration and corrective measures to stream reaches having severe channel erosion, sedimentation, habitat degradation, and flooding problems. Priorities are based on watershed studies done out of the Facility Planning: SM project.

During its stream evaluations, DEP also identifies storm drain outfall repair needs and coordinates with DOT's Outfall Repairs project. Sewer issues are also identified and forwarded to WSSC.

For the FY19-24 CIP, the project was adjusted downward (-\$46.3 million, -75.5 percent), consistent with the Executive's recommendation to utilize a Design/Build/Maintain project for future retrofit work. The expenditures and funding reflected in FY19 and beyond are for projects already underway, including: Fallsreach Stream and Flints Grove Stream in FY19, stream monitoring costs in FY19-24, expenses related to Lower Booze Creek repairs in FY19 through FY21, the payment for the Broad Run Stream pay for performance project in FY20, payment for the Glenstone Stream Phase 2 project in FY19, and DEP personnel costs in FY19 through FY21. Long-term financing was also substituted in FY19 and FY20 where possible.

The amended project as transmitted by the Executive on March 15 is in alignment with the Council's actions last July regarding the new SM Design/Build/Maintain Contract project (as discussed in more detail later in this memorandum).

The recommended amendment (see revised PDF on ©5) includes several new actions:

- Add the Glenstone Phase 3 project (\$1.43 million in FY20)
- Add the Army Corps of Engineers planning project (\$350,000 in FY20)
- Adjust the FY18 expenditure total to reflect a \$189,000 cost increase based on actual construction bids.

The Executive's March 15 transmittal letter discusses the two recommended additions above (see ©2), noting that both leverage existing partnerships. The Glenstone Phase 3 project will restore 5700 linear feet of stream channel which will result in 57 impervious surface area credits at "less than half the cost of other anticipated stream restoration projects." The County is paying up to 50 percent of the project cost and up to \$250 per linear foot. In total, the three Glenstone projects will provide 144.4 impervious surface area credits at a total County cost of \$3.6 million (or \$25,000 per credit).

**Council Staff recommends approval of this amendment.**

### SM Retrofit – Schools (see PDF on ©13)

Up until FY19, this project provided for the design and construction of Environmental Site Design (ESD)/Low Impact Development (LID) stormwater management devices at Montgomery County Public Schools (MCPS) facilities, parking lots, and other impervious areas.

For the FY19-24 CIP, the project was adjusted downward (-\$12.3 million, -92.5 percent), consistent with the Executive's recommendation to utilize a Design/Build/Maintain project for future retrofit work. Current work out of this project includes low-income development (LID) projects at Olney ES and Sherwood ES, which are expected to be completed in FY19.

This project was not vetoed by the Executive last year and therefore the published PDF already aligns with the Council's action from last year.

The recommended amendment includes a technical adjustment: moving \$368,000 in Water Quality Protection Bond funding from FY19 to FY18 with an offsetting adjustment in State aid from FY18 to FY19.

**Council Staff recommends approval of this amendment.**

### **Updated Stormwater Management Project Description Forms**

Also included in the Executive's March 15 CIP amendment transmittal were PDFs for three projects: SM Design/Build/Maintain Contract, SM Retrofit - Countywide and SM Retrofit – Roads. All three projects were amended by the Council last July and the Executive's March 15 transmittals do not assume any changes from the Council's prior actions. Therefore, these projects do not require amendment but are included for informational purposes, since the PDFs are different from what appeared in last year's published FY19-24 CIP.

#### SM Design/Build/Maintain (DBM) Contract (see PDF on ©10-11)

In July 2018, the Council approved this new project (and a revised Stormwater Management CIP). This action occurred after much debate and a rare Executive veto of the Stormwater Management CIP after the Council's initial CIP actions in May. The July Council action included some substantive changes to the DBM PDF (see ©1-2) based on a compromise worked out with Executive staff.

The DBM contract went out for bid last October and bids were received in early November. However, the contract procurement for this project was later put on hold by the new Executive pending further review of the project by the new DEP Director and pending more current information from the Maryland Department of the Environment (MDE) regarding the expected future permit requirements. A draft permit (the tentative determination) was previously expected from MDE by this past January. However, that expected date has been pushed back to June 2019. The T&E Committee received a briefing from DEP on the Stormwater Management program on April 4, 2019.

Because the Council's final action on the Stormwater Management CIP occurred in July (after the Executive veto), the Stormwater Management CIP as reflected in the Approved CIP is out of date.

Since the new DBM contract project was a new project for the FY19-24 CIP, the Executive veto meant that this project does not appear in the published Approved FY19-24 CIP.

**The PDF transmitted by the Executive on March 15 (see ©10-11) is consistent with the DBM PDF from the Council's actions last July and no action is required by the Council for this project at this time.**

SM Retrofit: Countywide (see PDF on ©14-15)

Up until FY19, this project provided for the design and construction of stormwater management retrofit projects Countywide.

For the FY19-24 CIP, the project was adjusted downward (-\$78.8 million, -80.6 percent), consistent with the Executive's recommendation to utilize a Design/Build/Maintain project for future retrofit work. The expenditures and funding reflected in the approved project are for projects already underway. Long-term financing was substituted in FY19 where possible.

Last October, the Council approved a supplemental appropriation of \$60,000 from a contribution by the Fallsreach Homeowners Association for the construction of a replacement bridge on HOA property over a DEP stream restoration project.

The Executive's March 15 transmittal align this PDF with the Council's actions last July.

**The PDF transmitted by the Executive on March 15 is consistent with the Council's actions last July and October and no action is required by the Council for this project at this time.**

SM Retrofit – Roads (see PDF on ©12)

Up until FY19, this project provided for the design and construction of Environmental Site Design (ESD)/Low Impact Development (LID) stormwater management devices along County roads constructed prior to modern stormwater controls.

As part of the Council's final action in July 2018 on the Stormwater Management CIP, the project was zeroed out (except for \$50,000 in FY19 costs for closeout expenses related to engineering contracts), consistent with the Executive's recommendation to utilize a Design/Build/Maintain project for future retrofit work.

**The PDF transmitted by the Executive on March 15 is consistent with the Council's actions last July and no action is required by the Council for this project at this time.**

Attachments

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Excerpt



OFFICE OF THE COUNTY EXECUTIVE  
ROCKVILLE, MARYLAND 20850

Marc Elrich  
County Executive

MEMORANDUM

March 15, 2019

TO: Nancy Navarro, Council President

FROM: Marc Elrich, County Executive *Marc Elrich*

SUBJECT: AMENDMENTS TO THE FY19-24 CAPITAL IMPROVEMENT PROGRAM

In January 2019, I submitted my recommended FY19-24 Capital Improvements Program. Since that time, it has become clear that adjustments to the January recommendations are needed – primarily for affordability reasons.

**Bus Rapid Transit (BRT)**

While most of the attached amendments are needed to address fiscal capacity issues, I have included \$500,000 to initiate an environmental study for the MD 355 Bus Rapid Transit corridor. By Summer 2019, the Department of Transportation will have a Recommended Alternative for BRT on MD355. The next stage to advancing the project will be to commence environmental work, either under the Federal or State environmental law, depending on the source of funding expected to implement the project. Developing a BRT network is a top priority for me, and this is an important step in moving forward to alleviating congestion on the MD 355 corridor.

**Cost Sharing**

The Cost Sharing project had savings from prior grants (\$69,859), declined grants (\$400,000) and from unprogrammed FY19 and FY20 funds (\$702,000) which helped make it possible to support \$1,330,000 in Community Grants and \$253,581 in Arts Facilities projects. My March CIP amendments include the following new Cost Sharing Community Grants: 7th Generation Foundation, Inc.: \$25,000; A Wider Circle, Inc.: \$100,000; CASA de Maryland, Inc.: \$50,000; Charles E. Smith Jewish Day School of Greater Washington, Inc.: \$50,000; Cornerstone Montgomery, Inc.: \$50,000; Cura Personalis Project, Inc.: \$10,000; EveryMind, Inc.: \$75,000; Friends House Retirement Community, Inc.: \$100,000; Jewish Foundation for Group Homes: \$50,000; Manna Food Center, Inc.: \$25,000; The Olney Theatre for the Arts, Inc.: \$250,000; Round House Theatre: \$250,000; The Arc Montgomery County, Inc.: \$35,000; The Ivymount School, Inc.: \$75,000; The Menare Foundation, Inc.: \$10,000; Warrior Canine Connection, Inc.: \$50,000; YMCA of Metropolitan Washington: \$125,000. Based on the recommendations of the Arts and Humanities Council of Montgomery County Arts Facilities review panel, my amendments include the following Arts Facility grants: Sandy Spring Museum, Inc.: \$80,000; Imagination Stage, Inc.: \$41,150; Glen Echo Park Partnership for Arts and Culture, Inc.: \$88,833; and Montgomery Community Television, Inc.: \$43,598. In addition, consistent with the Arts Facility review panel's recommendation, \$220,000 of Cost Sharing funding has been shifted to the Planned Lifecycle Asset Replacement: MCG project to support repairs at the Black Rock Arts facility.

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**Stormwater Management**

In keeping with my interest in efficiently advancing stormwater improvements, the Misc Stream Valley Improvements project reflects the addition of two subprojects that leverage existing partnerships. The first partnership with the Glenstone Foundation (\$1.4 million) will provide the County with impervious acreage credit towards the MS4 permit at less than half the cost of other anticipated stream restoration projects. On the second partnership, an additional \$350,000 will initiate another round of collaboration with the Army Corps of Engineers by funding a stream evaluation and a planning study that is expected to lead to a cost-share agreement for additional Anacostia Watershed stream restoration work. Past restoration agreements with the Army Corps of Engineers have leveraged federal funding and have been a cost-effective way to attain impervious acreage credit.

**School Based Health & Linkages to Learning Centers**

I recommend increasing the scope of the School Based Health & Linkages to Learning Centers project to add planning work for four Linkages to Learning sites in FY20 at Lee and Silver Spring International Middle Schools and Gaithersburg and Cresthaven/Roscoe Nix Elementary Schools. Construction work for Lee Middle School is also included. This project scope expansion is funded within existing project resources.

**Technology Investments**

Master lease financing has also been included in my CIP amendments to provide for adequate storage of digital evidence data in FY20. Montgomery County, like many other jurisdictions, is experiencing exponential growth in data storage requirements following the implementation of body worn cameras and an increase in storage capacity of personal devices including personal cellphones and laptops. Growth is expected beyond FY20, and the County is currently evaluating long-term solutions through a working group led by the Department of Technology Services.

I am also pleased to support a partnership project between the Maryland-National Capital Park and Planning Commission's Parks Division, Community Use of Public Facilities, and the Recreation Department to replace their shared, on-line booking and sales software application to improve efficiency and the customer experience. In total, the Recreation Department and Parks offer nearly 6,000 activities and memberships annually. CUPF coordinates the use of approximately 17,000 school facilities, athletic fields, and County building facilities. And, Recreation and Parks manage bookings for approximately 500 facilities and open spaces and 1,000 ballfields, respectively. With over 500,000 transactions annually, it is imperative that the software be user friendly for residents and for back-end office operations.

**White Flint Redevelopment**

The White Flint Redevelopment projects were initiated with the expectation that taxes from the redeveloped district would fund a number of transportation improvements in the district. Work on the White Flint West Workaround project involving intersections and road improvements on Main St/Market St, Executive Boulevard, and Hoya Street is well on its way. And Federal Realty's Pike and Rose project has moved forward as planned in establishing a new residential and retail center in the County. However, the overall pace of development in the district is not what had been anticipated depressing the anticipated growth in the property tax assessable base. With district revenues well below the original plan estimates, the White Flint Taxing District has a significant affordability issue. As a result, I will be sending you a recommendation for a solution in the coming weeks after we have had an opportunity to

## FY 19-24 Biennial Recommended CIP March Budget Amendments Summary (\$000s)

Project #	Project Name	Explanation of Adjustment	FY19-24 Change (\$000s)	Funding Sources
<b>New Projects</b>				
P342001	Master Lease: Digital Evidence Data Storage	Provides for adequate FY20 storage of digital evidence data from body worn cameras and personal devices including cellphones and laptops.	750	Short-Term Lease Financing
P722001	Shared Agency Booking System Replacement	New project to replace on-line booking system shared by CUPF, Recreation and MNCPPC. Project will generate cost savings and improve the customer experience.	1,377	Current Revenue: CUPF, Intergovernmental
<b>Scope Change</b>				
P509514	Planned Lifecycle Asset Replacement: MCG	\$220K shift from Cost Sharing for Black Rock Arts facility renovations	220	Current Revenue: General
P500700	Street Tree Preservation	Reflects FY19 savings plan and modest reduction in FY20 due to affordability. Funding switch between Current Revenue and Recordation Tax Premium for \$773,000	(400)	Current Revenue: General, Recordation Tax Premium (MCG)
P501318	Bus Rapid Transit: System Development	Added environmental study for the MD 355 Bus Rapid Transit corridor	500	Current Revenue: Mass Transit
P500821	Ride On Bus Fleet	Add 1 CNG to replaced totaled bus; reduce 3 large diesels due to route frequency reductions; and switch 10 large diesel to Electric buses and add Federal Aid.	3,345	Contributions, Current Revenue: Mass Transit, Federal Aid
P640400	School Based Health & Linkages to Learning Centers	Scope increase to add planning for four Linkages to Learning sites in FY20: Lee MS, Silver Spring International Middle School, Gaithersburg ES #8, and Cresthaven/Roscoe Nix ES within existing resources. FY20 costs include construction for the Lee MS Linkages to Learning facility.	580	Current Revenue: General, G.O. Bonds
P711503	21st Century Library Enhancements Level Of Effort	Reflects the delay of a planned increase in annual project funding based on affordability (\$500,000) and a shift of related ongoing IT maintenance costs to the operating budget (\$118,000 per year).	(1,090)	Current Revenue: General
P720601	Cost Sharing: MCG	The Cost Sharing project had savings from prior grants (\$69,859), declined grants (\$400,000), and from unprogrammed FY19 and FY20 funds (\$702,000) which helped make it possible to support \$1,330,000 in Community Grants and \$253,581 in Arts Facilities projects. In addition, consistent with the Arts Facility review panel's recommendation, \$220,000 of Cost Sharing funding has been shifted to the Planned Lifecycle Asset Replacement: MCG project to support repairs at the Black Rock Arts facility.	2,102	Current Revenue: General
P807359	Misc Stream Valley Improvements	Reflect FY19 transfer of \$3,121,000 in Long-Term Financing to the SM Design/Build/Maintain Contract project (No. 801901, Resolution 18-1185), the addition of the Glenstone Phase 3 project (\$1.43M in FY20) and the addition of the Army Corps of Engineers planning project (\$350,000 in FY20). Also reflects FY18 cost increase of \$189,000 based on construction bids.	1,780	Current Revenue: Water Quality Protection
P761501	Colesville/New Hampshire Avenue Community Revitalization	Funding reduced to reflect actual expenditure needs based on level of private participation.	(610)	Current Revenue: General
P661401	College Affordability Reconciliation	Adjustment based on affordability and accumulated unspent balances.	(1,500)	Current Revenue: General
<b>Cost Change</b>				
P500152	Facilities Site Selection: MCG	Reflects prior year cost savings	19	Current Revenue: General
P508768	Facility Planning: MCG	Reflects prior year cost savings	(18)	Current Revenue: General



### FY 19-24 Biennial Recommended CIP March Budget Amendments Summary (\$000s)

Project #	Project Name	Explanation of Adjustment	FY19-24 Change (\$000s)	Funding Sources
P507017	Intersection and Spot Improvements	Bond Premium related funding switch	0	Current Revenue: General, G.O. Bonds
P509948	Outfall Repairs	Funding allocation adjustments to reflect MDE loan cost eligibility rules.	0	Current Revenue: Water Quality Protection, Long-Term Financing
P500320	Storm Drain General	Funding allocation adjustments to reflect MDE loan cost eligibility rules.	0	Current Revenue: Water Quality Protection, Long-Term Financing
P801901	SM Design/Build/Maintain Contract	Reflects July 2019 DBM transfer and supplemental resolutions.	0	
P801300	SM Retrofit - Roads	Reflects FY19 transfer of \$49,000 in Long-Term Financing to the SM Design/Build/Maintain Contract project (No. 801901, Resolution 18-1185).	0	
P801301	SM Retrofit - Schools	Reflects acceleration of \$368,000 in Water Quality Protection Bonds from FY19 into FY18 and a related funding schedule switch with State Aid.	0	
P808726	SM Retrofit: Countywide	Reflects FY19 transfer of \$7,387,000 in Long-Term Financing to the SM Design/Build/Maintain Contract project (No. 801901, Resolution 18-1185), and a FY19 supplemental for \$60,000 in Contributions.	0	
P816633	HVAC (Mechanical Systems) Replacement: MCPS	Reflects MCPS correction for funding allocations prior to FY19.	0	Current Revenue: General, G.O. Bonds, State Aid
P896586	Planned Life Cycle Asset Repl: MCPS	Reflects FY20 BOE requested amendment to shift \$2,500,000 in GO Bonds to the Seneca Valley HS Current Rev/Ex project. Also reflects MCPS correction for funding allocations prior to FY19.	(2,500)	Aging Schools Program, G.O. Bonds, Qualified Zone Academy Funds
P846540	Relocatable Classrooms	Funding switches in FY19 (\$1,326,00) and FY20 (\$405,000) increasing recordation tax and reducing current revenue. The County Executive supports the BOE's requested supplemental. If approved, appropriation will need to be updated.	0	Current Revenue: General, Recordation Tax
P056501	Restroom Renovations	Reflects FY20 BOE requested amendment to shift \$2,000,000 in GO Bonds to the Seneca Valley HS Current Rev/Ex project.	(2,000)	G.O. Bonds
P766995	Roof Replacement: MCPS	Reflects FY20 BOE requested amendment to shift \$3,000,000 in GO Bonds to the Seneca Valley HS Current Rev/Ex project. Also reflects MCPS correction for funding allocations prior to FY19.	(3,000)	G.O. Bonds, State Aid
P096510	Seneca Valley HS - Current Revitalizations/Expansions	Reflects FY19 funding switches (\$10,296,000) between GO Bonds and Recordation Tax related to the use of set aside and Bond Premium. Also includes funding switches in FY20 for \$6,280,000 to increase Schools Impact tax and decrease Recordation Tax.	0	G.O. Bonds, Recordation Tax, Schools Impact Tax
P036510	Technology Modernization	Reflects FY19 funding switch (\$6,796,000) between Current revenue: General and Recordation Tax related to the use of bond premium. Also reflects FY19 and FY20 funding switches between Recordation Tax and Current Revenue General for \$3,500,000 and \$6,280,000, respectively.	0	Current Revenue: General, Federal Aid, Recordation Tax
P056516	MCPS Affordability Reconciliation	Reflects adjustments needed to offset reductions made in the Restroom Renovations, Roof Replacement, and Planned Life-cycle Asset Replacement projects to reflect the BOE's requested amendments to shift funding from those projects to the Seneca Valley HS Rev/Ex project.	7,500	G.O. Bonds
P076510	MCPS Funding Reconciliation	Updated by changes in the target in FY21 through FY24.	0	G.O. Bonds, Recordation Tax, Schools Impact Tax



# Misc Stream Valley Improvements (P807359)

**Category** Conservation of Natural Resources **Date Last Modified** 02/28/19  
**SubCategory** Stormwater Management **Administering Agency** Environmental Protection  
**Planning Area** Countywide **Status** Ongoing

Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	7,331	4,431	-	2,900	700	1,190	470	180	180	180	-
Land	2	2	-	-	-	-	-	-	-	-	-
Site Improvements and Utilities	1	1	-	-	-	-	-	-	-	-	-
Construction	17,733	3,863	-	13,870	4,460	8,250	1,160	-	-	-	-
Other	646	646	-	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>25,713</b>	<b>8,943</b>	<b>-</b>	<b>16,770</b>	<b>5,160</b>	<b>9,440</b>	<b>1,630</b>	<b>180</b>	<b>180</b>	<b>180</b>	<b>-</b>

### FUNDING SCHEDULE (\$000s)

Current Revenue: Water Quality Protection	4,456	-	-	4,456	1,086	2,440	930	-	-	-	-
Long-Term Financing	9,579	-	-	9,579	3,279	6,300	-	-	-	-	-
State Aid	5,181	3,681	-	1,500	500	500	500	-	-	-	-
Stormwater Management Waiver Fees	2,325	1,090	-	1,235	295	200	200	180	180	180	-
Water Quality Protection Bonds	4,172	4,172	-	-	-	-	-	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>25,713</b>	<b>8,943</b>	<b>-</b>	<b>16,770</b>	<b>5,160</b>	<b>9,440</b>	<b>1,630</b>	<b>180</b>	<b>180</b>	<b>180</b>	<b>-</b>

### OPERATING BUDGET IMPACT (\$000s)

Maintenance				160	20	30	20	5	35	50	
<b>NET IMPACT</b>				<b>160</b>	<b>20</b>	<b>30</b>	<b>20</b>	<b>5</b>	<b>35</b>	<b>50</b>	

### APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 20 Approp. Request	-	Year First Appropriation	FY73
Cumulative Appropriation	28,093	Last FY's Cost Estimate	45,264
Expenditure / Encumbrances	16,773		
Unencumbered Balance	11,320		

### PROJECT DESCRIPTION

This project provides for design and construction of habitat restoration or stabilization measures for stream reaches having significant channel erosion, sedimentation, and habitat degradation. Developed areas constructed without current stormwater controls contribute uncontrolled runoff which results in eroded streambanks, excessive sediment, tree loss, and degraded habitat for fish and aquatic life. Stormdrain outfalls damaged from severe erosion are identified and, where possible, the outfalls are repaired as part of stream restoration projects - funded from the Outfall Repairs project (No. 509948). Stream deterioration can also adversely affect sanitary sewer crossings by exposing sewer lines and manholes, which in turn can be fish barriers and leak raw sewage into streams or allow infiltration of stream baseflow into the sewer system, potentially causing substantial increases in wastewater treatment costs.

### COST CHANGE

Project decrease in FY20 is due to updated progress towards meeting MS4 permit and a FY19 transfer of \$3,121,000 in Long-Term Financing to the SM Design/Build/Maintain Contract project (No. 801901, Resolution 18-1185), the addition of the Glenstone Phase 3 project (\$1.43M in FY20) and the addition of the Army Corps of Engineers planning project (\$350,000 in FY20). FY18 cost increase of \$189,000 due to construction bids coming in higher than budgeted.

### PROJECT JUSTIFICATION

The project supports the requirements of the County's MS4 permit and addresses the goals of the Chesapeake Bay Watershed Agreement, Anacostia Watershed Restoration Agreement, and the County's adopted water quality goals (Chapter 19, Article IV). The project will stabilize and improve local stream habitat conditions where streams have been damaged by inadequately controlled stormwater runoff. Corrective measures constructed or coordinated under this project include stream bank stabilization, channel modifications, habitat restoration, storm drain outfall or sanitary sewer infrastructure repairs to improve fish and other biological resources, while reducing sediment and nutrient loadings caused by excessive streambank erosion. The Facility Planning: SM project (No. 809319) includes funds for watershed studies and identifies and prioritizes stream reaches in need of restoration and protection.

### OTHER

The Department of Environmental Protection identifies damaged sewer lines as part of this project, and the Washington Suburban Sanitary Commission makes sewer repairs during project construction. Projects planned for design and construction include Glenstone, Fallsreach, Flints Grove Stream, and Booze Creek Repairs. CIP project includes funding for stream restoration study of Anacostia Watershed by the Army Corps of Engineers.

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**FISCAL NOTE**

This project assumes the award of Maryland Water Quality Revolving Loan Funds (Long-Term Financing) over the six-year period, which would replace Water Quality Protection Bonds as the primary source of funding for the program. While the State of Maryland has indicated a desire to provide funding, all indicated State Aid is preliminary. Expenditures in the outyears include expected costs to meet the requirements of the County's next MS4 permit. The scope of the next MS4 permit is subject to negotiation with the Maryland Department of Environment. Costs in out years included cost of stream monitoring. Project decrease in FY20 is due to updated progress towards meeting MS4 permit and a FY19 transfer of \$3,121,000 in Long-Term Financing to the SM Design/Build/Maintain Contract project (No. 801901, Resolution 18-1185), the addition of the Glenstone Phase 3 project (\$1.43M in FY20) and the addition of the Army Corps of Engineers planning project (\$350,000 in FY20). FY18 cost increase of \$189,000 due to construction bids coming in higher than budgeted.

**DISCLOSURES**

Expenditures will continue indefinitely.

**COORDINATION**

Department of Transportation, Maryland-National Capital Park and Planning Commission, Washington Suburban Sanitary Commission, Department of Permitting Services, Maryland Department of the Environment, Maryland Department of Natural Resources.



# Outfall Repairs (P509948)

<b>Category</b>	Conservation of Natural Resources	<b>Date Last Modified</b>	03/09/19
<b>SubCategory</b>	Storm Drains	<b>Administering Agency</b>	Transportation
<b>Planning Area</b>	Countywide	<b>Status</b>	Ongoing

Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	3,804	2,341	258	1,205	270	187	187	187	187	187	-
Land	12	12	-	-	-	-	-	-	-	-	-
Construction	6,086	4,380	139	1,567	192	275	275	275	275	275	-
Other	3	3	-	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>9,905</b>	<b>6,736</b>	<b>397</b>	<b>2,772</b>	<b>462</b>	<b>462</b>	<b>462</b>	<b>462</b>	<b>462</b>	<b>462</b>	-

### FUNDING SCHEDULE (\$000s)

Current Revenue: Water Quality Protection	1,559	667	-	892	232	132	132	132	132	132	-
G.O. Bonds	5,357	5,357	-	-	-	-	-	-	-	-	-
Long-Term Financing	1,880	-	-	1,880	230	330	330	330	330	330	-
Water Quality Protection Bonds	1,109	712	397	-	-	-	-	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>9,905</b>	<b>6,736</b>	<b>397</b>	<b>2,772</b>	<b>462</b>	<b>462</b>	<b>462</b>	<b>462</b>	<b>462</b>	<b>462</b>	-

### APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 20 Approp. Request	462	Year First Appropriation	FY99
Cumulative Appropriation	7,595	Last FY's Cost Estimate	9,905
Expenditure / Encumbrances	7,107		
Unencumbered Balance	488		

### PROJECT DESCRIPTION

This project provides for the repair of existing storm drain outfalls into stream valleys. Design of corrective measures is included when in-kind replacement of original outfall structures is not feasible. Candidate outfall repairs are selected from citizen and public agency requests. The Department of Environmental Protection's (DEP) Miscellaneous Stream Valley Improvements project generates and assists in rating the outfalls, which are identified as that project expands into additional watersheds.

### PROJECT JUSTIFICATION

Collapsed storm drain pipe sections, undermined endwalls, and eroded outfall channels create hazardous conditions throughout the County. The course of drainage could be altered endangering private property or public roads and speeding the erosion of stream channels. Erosion from damaged outfalls results in heavy sediment load being carried downstream that can severely impact aquatic ecosystems and exacerbate existing downstream channel erosion. As part of its watershed restoration inventories, DEP identifies storm drain outfalls that are in need of repair in County stream valleys and respective watersheds. As this program expands to include additional watersheds, each outfall is categorized and, where damaged, rated. A functional rating and evaluation process is used to prioritize each outfall.

### OTHER

The number of outfall locations being repaired per year varies based on the severity of the erosion and damage, the complexity of the design, and the complexity of the needed restorative construction work. Completed outfalls in FY16-17: Dartmouth Avenue, Havard Street, 7600 Rossdhu Court, Sligo Creek at Dennis Avenue, 11820 Hunting Ridge Court, 1301 Dilston Place and 3732 Cardiff Road. Scheduled for repairs (FY18 - beyond): 5009 Elsmere Road, 9124 Hollyoak Drive, 9100 Hollyoak Drive, 11208 Whisperwood Road, 10808 Margate Road, and Shiloh Church Road.

### FISCAL NOTE

In FY19, going forward, Water Quality Protection Bonds have been replaced with Long-Term Financing based on the Maryland Water Quality Revolving Loan Fund (WQRLF) to finance water quality improvement projects with low interest loans which are less costly than bond sales. Change in funding schedule to reflect cost eligibility rules.

### DISCLOSURES

A pedestrian impact analysis has been completed for this project. Expenditures will continue indefinitely.

### COORDINATION

Montgomery County Department of Environmental Protection, Maryland-National Capital Park and Planning Commission, Maryland Department of the Environment, United States Army Corps of Engineers, Montgomery County Department of Permitting Services, Utility Companies, Miscellaneous Stream Valley Improvements.



# Storm Drain General (P500320)

<b>Category</b>	Conservation of Natural Resources	<b>Date Last Modified</b>	03/09/19
<b>SubCategory</b>	Storm Drains	<b>Administering Agency</b>	Transportation
<b>Planning Area</b>	Countywide	<b>Status</b>	Ongoing

Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	3,909	1,963	272	1,674	404	254	254	254	254	254	-
Land	103	103	-	-	-	-	-	-	-	-	-
Construction	13,978	10,493	35	3,450	450	600	600	600	600	600	-
Other	1	1	-	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>17,991</b>	<b>12,560</b>	<b>307</b>	<b>5,124</b>	<b>854</b>	<b>854</b>	<b>854</b>	<b>854</b>	<b>854</b>	<b>854</b>	<b>-</b>

### FUNDING SCHEDULE (\$000s)

Current Revenue: Water Quality Protection	2,584	1,600	-	984	314	134	134	134	134	134	-
G.O. Bonds	9,169	9,169	-	-	-	-	-	-	-	-	-
Intergovernmental	228	223	5	-	-	-	-	-	-	-	-
Long-Term Financing	4,140	-	-	4,140	540	720	720	720	720	720	-
State Aid	162	162	-	-	-	-	-	-	-	-	-
Water Quality Protection Bonds	1,708	1,406	302	-	-	-	-	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>17,991</b>	<b>12,560</b>	<b>307</b>	<b>5,124</b>	<b>854</b>	<b>854</b>	<b>854</b>	<b>854</b>	<b>854</b>	<b>854</b>	<b>-</b>

### APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 20 Approp. Request	-	Year First Appropriation	FY03
Cumulative Appropriation	14,575	Last FY's Cost Estimate	17,991
Expenditure / Encumbrances	12,840		
Unencumbered Balance	1,735		

### PROJECT DESCRIPTION

This project provides the flexibility to construct various sub-projects that might otherwise be delayed for lack of funds or difficulty in acquiring right-of-way. This project provides for right-of-way acquisition and construction for storm drain projects resulting from the Drainage Assistance Request Program. Individual projects range from retrofitting existing storm drainage systems to developing new drainage systems required to upgrade the existing systems in older subdivisions. Projects formerly handled through the Neighborhood Storm Drain Improvements Project are usually small, unanticipated projects initiated by requests from citizens whose homes and properties are subject to severe flooding or erosion and where there is a demonstrated need for early relief. Potential new storm drain projects are studied under the Facility Planning: Storm Drain project. Concept studies are evaluated based on the following factors: public safety, damage to private property and frequency of event, damage to public right-of-way, environmental factors such as erosion, general public benefit, availability of right-of-way and 5:1 cost benefit damage prevented ratio. After the completion of facility planning, projects with construction estimated to cost less than \$500,000 are included in this project. Prompt relief is frequently achieved by the use of Department of Transportation (DOT) personnel to construct and provide construction management. The project also facilitates financial participation with developers up to 50 percent share of construction cost for storm drainage projects where such construction would yield a public benefit to properties other than that of homeowner or developers. Right-of-way is acquired under the Advanced Land Acquisition Revolving Fund (ALARF).

### CAPACITY

Projects will be designed to accommodate the ten-year storm frequency interval.

### OTHER

On Participation projects, cost sharing between the County and either homeowners or developers varies and is based upon a signed Letter of Understanding. Some funds from this project will go to support the Renew Montgomery program. Completed Projects in FY16 and FY17: Rosemere Avenue, Decatur Avenue, Diamondback Drive at Decoverly Drive, Berryville Road, Elsworth Drive, Shepherd Street, Norvale Road, Sherwood Forest Drive, Drummond Avenue, Westland Road, Madawaska Road, 80th Street, Greentree Road, Grant Street, 83rd Street, Parker Avenue, East Franklin Avenue and Oakmont Avenue. Potential Future projects: Stable Lane, Ashburton Lane, Mintwood Street, and Ogden Court.

### FISCAL NOTE

In FY19, going forward, Water Quality Protection Bonds have been replaced with Long-Term Financing based on the Maryland Water Quality Revolving Loan Fund (WQRLF) to finance water quality improvement projects with low interest loans which are less costly than bond sales. The FY19 appropriation has been programmed to cover both FY19 and FY20 project expenditures; consistent with past practice for this project. Change in funding schedule to reflect cost eligibility rules.

### DISCLOSURES

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A pedestrian impact analysis will be performed during design or is in progress. Expenditures will continue indefinitely.

**COORDINATION**

Montgomery County Department of Environmental Protection, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, United States Army Corps of Engineers, Montgomery County Department of Permitting Services, Utility Companies, Sidewalk Program - Minor Projects (CIP No. 506747).



# SM Design/Build/Maintain Contract (P801901)

<b>Category</b>	Conservation of Natural Resources	<b>Date Last Modified</b>	01/09/19
<b>SubCategory</b>	Stormwater Management	<b>Administering Agency</b>	Environmental Protection
<b>Planning Area</b>	Countywide	<b>Status</b>	Ongoing

Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	12,250	-	-	12,250	1,830	2,160	2,410	2,430	2,430	990	-
Construction	34,050	-	-	34,050	-	6,560	6,360	6,710	7,210	7,210	-
<b>TOTAL EXPENDITURES</b>	<b>46,300</b>	-	-	<b>46,300</b>	<b>1,830</b>	<b>8,720</b>	<b>8,770</b>	<b>9,140</b>	<b>9,640</b>	<b>8,200</b>	-

### FUNDING SCHEDULE (\$000s)

Current Revenue: Water Quality Protection	7,535	-	-	7,535	-	-	1,140	1,780	2,190	2,425	-
Long-Term Financing	27,265	-	-	27,265	1,830	8,720	5,130	4,360	4,450	2,775	-
State Aid	11,500	-	-	11,500	-	-	2,500	3,000	3,000	3,000	-
<b>TOTAL FUNDING SOURCES</b>	<b>46,300</b>	-	-	<b>46,300</b>	<b>1,830</b>	<b>8,720</b>	<b>8,770</b>	<b>9,140</b>	<b>9,640</b>	<b>8,200</b>	-

### APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 20 Approp. Request	-	Year First Appropriation	FY19
Cumulative Appropriation	20,000	Last FY's Cost Estimate	-
Expenditure / Encumbrances	-		
Unencumbered Balance	20,000		

## PROJECT DESCRIPTION

This project provides for the use of a Design/Build/Maintain (DBM) contract for the design and construction of new and/or upgrades of existing under-performing stormwater management facilities or stream restorations throughout the County to meet the requirements of the County's Municipal Separate Storm Sewer System (MS4) Permit. Compliance with the MS4 Permit requires the control of impervious surfaces not currently treated to the maximum extent practicable. Any stormwater management facility type(s) or stream restoration, deemed creditable per the Maryland Department of the Environment regulations, can be implemented per this project.

## PROJECT JUSTIFICATION

This project is needed to comply with the County's MS4 permitting requirements in a cost-effective manner, to implement the County's adopted water quality goals (Chapter 19, Article IV), and to protect habitat conditions in local streams.

## OTHER

The Montgomery Parks Department of the Maryland-National Capital Park and Planning Commission (M-NCPPC) and the Montgomery Department of Environmental Protection (DEP) have agreed that M-NCPPC will serve as the lead agency for implementing stream restoration projects including long term monitoring and maintenance, that are located wholly or mostly on parks property in support of the County's MS4 permit. Previously, DEP had begun design work on the following stream restoration projects which meet these criteria: Clearspring Manor, Glenallan, Stoneybrook (Beach Drive to Montrose Avenue), and Grosvenor (Beach Drive to Rockville Pike). In FY 18, DEP will provide all design work for these projects to M-NCPPC for design completion, permitting, and construction under M-NCPPC's Stream Protection: SVP (P818571) project. M-NCPPC has agreed that all MS4 credits generated from these projects will be credited towards the County's future MS4 permit with delivery of the restored impervious acres no later than Dec. 31, 2023. M-NCPPC will provide appropriate updates at key project milestones to ensure that impervious acreage credits are achieved in the timeframe required, in addition to providing the long-term monitoring and maintenance required for the County to maintain the impervious acreage credit. These projects are currently estimated to have a combined cost of \$2.4M and will provide approximately 44 acres of credit. Parks will provide updated schedule and cost information on all projects in FY 19 for construction allocation funding beginning in FY 20, based on MDE's Water Quality Revolving Loan Fund cycle timeframes. M-NCPPC and DEP will immediately begin developing a Memorandum of Understanding that details how projects completed by M-NCPPC, funded with WQPF dollars, with MS4 credits going to DEP will be handled. M-NCPPC will document all MS4 credits created through these projects in accordance with MDE requirements to obtain State approval for the permit credits. M-NCPPC recognizes that stream restoration projects with relatively small segments located on parks property may be selected by the County's DBM contractor. If selected by the County's contractor and approved by DEP with concurrence by M-NCPPC, the contractor will need to obtain a Park Permit and comply with all M-NCPPC requirements.

DEP will provide quarterly program status updates to the Council under this contract. The annual work program will be based on permit requirements, an assessment of priority needs, community input including feedback from a stormwater program advisory group, and partnership agreements.

## FISCAL NOTE

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This project assumes the award of Maryland Water Quality Revolving Loan Funds (Long-Term Financing) over the six-year period, which would replace Water Quality Protection Bonds as the primary source of funding for the program. Expenditures in the outyears include expected costs to meet the requirements of the County's next MS4 permit. The scope of the next MS4 permit is subject to negotiation with the Maryland Department of Environment. The FY20 appropriation will be determined as part of the FY20 Capital Budget Process. FY19 transfer of \$49,000 in Long-Term Financing from SM Retrofit- Roads (No. 801300), \$7,387,000 in Long-Term Financing from SM Retrofit: Countywide (No. 808726), and \$3,121,000 in Long-Term Financing from Misc Stream Valley Improvements (No. 807359).

**DISCLOSURES**

Expenditures will continue indefinitely. The County Executive asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

**COORDINATION**

Maryland National Capital Park and Planning Commission, Department of Permitting Services, Maryland Department of the Environment





# SM Retrofit - Roads (P801300)

**Category** Conservation of Natural Resources **Date Last Modified** 02/28/19  
**SubCategory** Stormwater Management **Administering Agency** Environmental Protection  
**Planning Area** Countywide **Status** Ongoing

Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	7,360	7,192	118	50	50	-	-	-	-	-
Construction	8,523	8,523	-	-	-	-	-	-	-	-
Other	23	23	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>15,906</b>	<b>15,738</b>	<b>118</b>	<b>50</b>	<b>50</b>	-	-	-	-	-

### FUNDING SCHEDULE (\$000s)

State Aid	9,431	9,313	118	-	-	-	-	-	-	-
Water Quality Protection Bonds	6,475	6,425	-	50	50	-	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>15,906</b>	<b>15,738</b>	<b>118</b>	<b>50</b>	<b>50</b>	-	-	-	-	-

### APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 20 Approp. Request	(3,454)	Year First Appropriation	FY13
Cumulative Appropriation	19,360	Last FY's Cost Estimate	19,256
Expenditure / Encumbrances	18,771		
Unencumbered Balance	589		

## PROJECT DESCRIPTION

This project provides for the design and construction of Environmental Site Design (ESD)/Low Impact Development (LID) stormwater management devices along County roads constructed prior to modern stormwater management controls. ESD/LID stormwater devices include bioretention, curb extensions, porous concrete, tree box inlets, and other types of devices that promote water filtering and groundwater recharge.

## COST CHANGE

Project decrease in FY20 is due to updated progress towards meeting MS4 permit and a FY19 transfer of \$49,000 in Long-Term Financing to the SM Design/Build/Maintain Contract project (No. 801901, Resolution 18-1185).

## PROJECT JUSTIFICATION

This project supports the requirements of the County's Municipal Separate Storm Sewer System (MS4) permit and addresses the goals of the Chesapeake Bay Watershed Agreement and the County's adopted water quality goals (Chapter 19, Article IV). The County's MS4 permit requires that the County provide stormwater controls for 20 percent of impervious surfaces not currently treated to the maximum extent practicable, with an emphasis, where possible, on the use of ESD/LID devices. This project will be responsible for controlling stormwater on County roads, largely through ESD/LID practices, as needed to satisfy the permit requirements.

## OTHER

A portion of these potential ESD/LID stormwater retrofits on County roads were previously programmed under the SM Retrofit - Government Facilities project (No. 800900). This stand-alone project includes potential ESD/LID projects for County roads and allows for a more efficient implementation of projects of similar scope in partnership with the Department of Transportation (DOT).

## FISCAL NOTE

Project decrease in FY20 is due to updated progress towards meeting MS4 permit and a FY19 transfer of \$49,000 in Long-Term Financing to the SM Design/Build/Maintain Contract project (No. 801901, Resolution 18-1185).

## DISCLOSURES

Expenditures will continue indefinitely.

## COORDINATION

Department of General Services, Department of Transportation, Maryland-National Capital Park and Planning Commission, Department of Permitting Services, Maryland Department of the Environment, United States Army Corps of Engineers, Maryland Department of Natural Resources.



# SM Retrofit - Schools (P801301)

**Category** Conservation of Natural Resources **Date Last Modified** .03/09/19  
**SubCategory** Stormwater Management **Administering Agency** Environmental Protection  
**Planning Area** Countywide **Status** Ongoing

Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	1,958	1,710	68	180	180	-	-	-	-	-
Construction	3,424	2,522	82	820	820	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>5,382</b>	<b>4,232</b>	<b>150</b>	<b>1,000</b>	<b>1,000</b>	-	-	-	-	-

### FUNDING SCHEDULE (\$000s)

State Aid	1,878	1,360	150	368	368	-	-	-	-	-
Water Quality Protection Bonds	3,504	2,872	-	632	632	-	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>5,382</b>	<b>4,232</b>	<b>150</b>	<b>1,000</b>	<b>1,000</b>	-	-	-	-	-

### OPERATING BUDGET IMPACT (\$000s)

Maintenance				1	1	-	-	-	-	-
<b>NET IMPACT</b>				<b>1</b>	<b>1</b>	-	-	-	-	-

### APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 20 Approp. Request	(1,621)	Year First Appropriation	FY13
Cumulative Appropriation	7,003	Last FY's Cost Estimate	5,382
Expenditure / Encumbrances	6,794		
Unencumbered Balance	209		

### PROJECT DESCRIPTION

This project provides for the design and construction of Environmental Site Design (ESD)/Low Impact Development (LID) stormwater management devices at Montgomery County Public Schools (MCPS) such as buildings, parking lots, and other impervious surfaces constructed prior to modern stormwater management controls. LID/ESD stormwater devices that may be implemented under this project include: green roofs, bioretention areas, tree box inlets, porous concrete, and other types of devices that promote water filtering and groundwater recharge.

### COST CHANGE

Decrease is due to updated progress towards meeting MS4 permit.

### PROJECT JUSTIFICATION

This project supports the requirements of the County's Municipal Separate Storm Sewer System (MS4) permit and addresses the goals of the Chesapeake Bay Watershed Agreement and the County's adopted water quality goals (Chapter 19, Article IV). The County's MS4 permit requires that the County provide stormwater controls for 20 percent of impervious surfaces not currently treated to the maximum extent practicable, with an emphasis, where possible, on the use of LID/ESD devices. This project will be responsible for controlling stormwater on Montgomery County Public School (MCPS) properties largely through the use of LID/ESD practices needed to satisfy the permit requirements.

### OTHER

A portion of these potential LID/ESD stormwater retrofits located at County schools were previously programmed under the FY11-16 Approved SM Retrofit - Government Facilities project (No. 800900). This stand-alone project includes LID/ESD projects located on MCPS property and allows for a more efficient implementation of projects in partnership with MCPS.

### FISCAL NOTE

Acceleration of \$368,000 in Water Quality Protection Bonds from FY19 into FY18 and a related funding schedule switch with State Aid.

### DISCLOSURES

Expenditures will continue indefinitely. The County Executive asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

### COORDINATION

Maryland-National Capital Park and Planning Commission, Montgomery County Public Schools, Department of Permitting Services, Maryland Department of the Environment.



# SM Retrofit: Countywide (P808726)

<b>Category</b>	Conservation of Natural Resources	<b>Date Last Modified</b>	02/28/19
<b>SubCategory</b>	Stormwater Management	<b>Administering Agency</b>	Environmental Protection
<b>Planning Area</b>	Countywide	<b>Status</b>	Ongoing

Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	21,749	18,627	852	2,270	1,910	360	-	-	-	-
Site Improvements and Utilities	4	4	-	-	-	-	-	-	-	-
Construction	36,730	17,767	2,193	16,770	15,180	1,590	-	-	-	-
Other	1,322	1,322	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>59,805</b>	<b>37,720</b>	<b>3,045</b>	<b>19,040</b>	<b>17,090</b>	<b>1,950</b>	-	-	-	-

### FUNDING SCHEDULE (\$000s)

Contributions	60	-	-	60	60	-	-	-	-	-
Current Revenue: Water Quality Protection	13,247	8,011	-	5,236	3,826	1,410	-	-	-	-
Intergovernmental	1,000	844	156	-	-	-	-	-	-	-
Long-Term Financing	11,024	-	-	11,024	11,024	-	-	-	-	-
State Aid	5,210	1,683	2,527	1,000	500	500	-	-	-	-
Water Quality Protection Bonds	29,264	27,182	362	1,720	1,680	40	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>59,805</b>	<b>37,720</b>	<b>3,045</b>	<b>19,040</b>	<b>17,090</b>	<b>1,950</b>	-	-	-	-

### OPERATING BUDGET IMPACT (\$000s)

Maintenance				25	20	5	-	-	-	-
<b>NET IMPACT</b>				<b>25</b>	<b>20</b>	<b>5</b>	-	-	-	-

### APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 20 Approp. Request	-	Year First Appropriation	FY87
Cumulative Appropriation	68,900	Last FY's Cost Estimate	78,795
Expenditure / Encumbrances	61,345		
Unencumbered Balance	7,555		

### PROJECT DESCRIPTION

This project provides for the design and construction of new and/or upgrades of existing underperforming stormwater management facilities and devices under the County's Municipal Separate Storm Sewer System (MS4) Permit as detailed in the draft Montgomery County Coordinated Implementation Strategy (CCIS). Compliance with the MS4 permit requires controlling 20 percent of impervious surfaces, or approximately 3,778 impervious acres, not currently treated to the maximum extent practicable. Inventories of candidate projects have been conducted under the Facility Planning: SM project (PDF No. 809319) for the County's ten watersheds (Paint Branch, Rock Creek, Cabin John Creek, Hawlings River, Watts Branch, Great Seneca, Muddy Branch, Sligo Creek, Little Paint Branch, and Northwest Branch). Some of the most complex projects constructed under this project are assessed and the preliminary plans are completed in the Facility Planning: SM project (No. 809319). Where feasible, the projects integrate wetland and habitat features consistent with the goals of the Chesapeake Bay Agreement. In small drainage areas, retrofit projects may also include biofiltration, bioretention, or stormwater filtering devices.

### COST CHANGE

Project decrease in FY20 is due to updated progress towards meeting MS4 permit requirements, a FY19 transfer of \$7,387,000 in Long-Term Financing to the SM Design/Build/Maintain Contract project (No. 801901, Resolution 18-1185), and a FY19 supplemental for \$60,000 in Contributions.

### PROJECT JUSTIFICATION

This project is needed to comply with the County's MS4 permitting requirements and to implement the County's adopted water quality goals (Chapter 19, Article IV) and protect habitat conditions in local streams. In addition, the project supports the goals of the Anacostia Watershed Restoration Agreement.

### FISCAL NOTE

This project assumes the award of Maryland Water Quality Revolving Loan Funds (Long-Term Financing) over the six-year period, which would replace Water Quality Protection Bonds as the primary source of funding for the program. While the State of Maryland has indicated a desire to provide funding, all indicated State Aid is preliminary and not appropriated. In FY17 and FY18, funding from the Current Revenue: Water Quality Protection replaced some funding previously allocated to Water Quality Protection Bonds and State Aid. Expenditures in the outyears include expected costs to meet the requirements of the County's next MS4 permit. The scope of the next permit is subject to negotiation with the Maryland Department of Environment. WSSC and DEP have agreed to an MOU related to Stormwater Management Projects in FY18. WSSC will transfer \$1 million to the County to allow DEP to undertake SWM projects on WSSC's behalf. FY19 supplemental for \$60,000 in Contributions. Project decrease in FY20 is due to updated progress towards meeting MS4 permit requirements and a FY19 transfer of

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\$7,387,000 in Long-Term Financing to the SM Design/Build/Maintain Contract project (No. 801901, Resolution 18-1185). Acceleration of \$40,000 in Current Revenue: Water Quality Protection from FY20 into FY18 and a funding schedule switch with Water Quality Protection Bonds to fill the gap.

**DISCLOSURES**

Expenditures will continue indefinitely.

**COORDINATION**

Department of Transportation, Maryland National Capital Park and Planning Commission, Department of Permitting Services, Maryland Department of the Environment, Natural Resources Conservation Service , U.S. Army Corps of Engineers, Facility Planning: SM (No. 809319), Maryland Department of Natural Resources.