

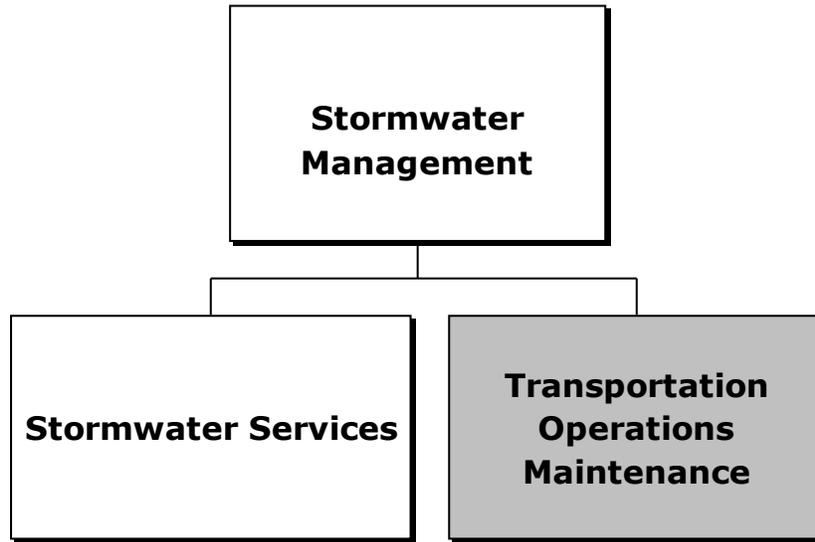
Fairfax County 2018 MS4 Program Plan and Annual Report

Appendix R1

FY 2019 Fairfax County Adopted Budget Plan (Vol. 2), Stormwater Services
Budget

VSMP Permit Number VA0088587
9-28-2018

Fund 40100 Stormwater Services



 Denotes functions that are included in both the General Fund, Agency 87, Unclassified Administrative Expenses, and Fund 40100, Stormwater Services.

Mission

To develop and maintain a comprehensive watershed and infrastructure management program to protect property, health and safety; to enhance the quality of life; and to preserve and improve the environment for the benefit of the public. To plan, design, construct, operate, maintain and inspect the infrastructure, and perform environmental assessments through coordinated stormwater and maintenance programs in compliance with all government regulations utilizing innovative techniques, customer feedback and program review; and to be responsive and sensitive to the needs of the residents, customers and public partners.

Focus

Stormwater Services are essential to protect public safety, preserve property values and support environmental mandates such as those aimed at protecting the Chesapeake Bay and the water quality of other local jurisdictional waterways. Projects in this fund include repairs to stormwater infrastructure, measures to improve water quality such as stream stabilization, rehabilitation, safety upgrades of state regulated dams, repair and rehabilitation of underground pipe systems, surface channels, flood mitigation, site retrofits and best management practices (BMP), and other improvements. This funding also supports the implementation of watershed master plans, public outreach efforts, and stormwater monitoring activities as well as operational maintenance programs related to the existing storm drainage infrastructure as it pertains to stormwater conveyance and stormwater quality improvements.

Fund 40100 Stormwater Services

As part of the FY 2010 Adopted Budget Plan, a special service district was created to support the Stormwater Management Program and provide a dedicated funding source for both operating and capital project requirements, as authorized by Code of Virginia Ann. Sections 15.2-2400. In FY 2019, the stormwater service rate will increase from \$0.0300 to \$0.0325 per \$100 of assessed real estate value. This level is consistent with the five-year plan developed in FY 2015 as a phased approach for funding and staffing to support the anticipated regulatory increases. FY 2019 represents the final year of the five-year plan and during the next year, staff will be evaluating the success of the program, analyzing future stormwater rate requirements and developing the next 5-10 year Stormwater plan. It is anticipated that the next multi-year plan will continue to include ¼ cent increases per year until such time as the rate is at the target level of 4 cents.

The five-year spending plan includes approximately \$225 million in required projects and operational support. This increase will support a number of goals. First, it will provide for constructing and operating stormwater management facilities, including stream restoration, new and retrofitted ponds, and installation of Low Impact Development (LID) techniques, required to comply with the federally mandated Chesapeake Bay Program. This program requires the County to reduce Phosphorus, Nitrogen, and sediment loads to the Potomac River and Chesapeake Bay. Municipal Separate Storm Sewer System (MS4) Permit holders must achieve 5 percent of the required reductions in the first five years; 35 percent of the required reductions in the second five years; and 60 percent of the required reductions in the third five years. The Capital Improvement Program includes a gradual increase that will help meet these requirements. Second, the increase will aid in the planning, construction, and operation of stormwater management facilities required to comply with state established local stream standards by reducing bacteria, sediments, and Polychlorinated Biphenyl (PCB) entering local streams. It is estimated that between 70 and 80 percent of the streams in the County are currently impaired. Third, the increase will support the federally mandated inspection, mapping, monitoring, maintaining, and retrofitting of existing stormwater facilities. The County currently owns and maintains over 1,900 stormwater management facilities that are valued at over \$500 million. Fourth, the increase will aid in collecting stormwater data and reporting the findings; providing community outreach and education, supporting new training programs for employees; and developing new Total Maximum Daily Loads (TMDL) Action Plans for impaired streams related to the MS4 Permit requirements. Fifth, the increase will improve dam safety by supporting annual inspections of 20 state-regulated dams in the County and by developing Emergency Action Plans required by the state. The Emergency Action Plans are updated annually. In addition, these plans include annual emergency drills and exercises, and flood monitoring for each dam. Finally, the increase will facilitate maintaining, rehabilitating, and reinvesting in the County's conveyance system. The County's conveyance system includes over 62,000 structures and 1,400 miles of pipes and improved channels, valued at more than \$1 billion.

The FY 2019 levy of \$0.0325 will generate \$77,886,250, supporting \$22,088,630 for staff and operational costs; \$54,672,620 for capital project implementation including, infrastructure reinvestment, regulatory requirements, dam safety, and contributory funding requirements; and \$1,125,000 transferred to the General Fund to partially offset central support services such as Human Resources, Purchasing, Budget and other administrative services supported by the General Fund which benefit this fund.

Fund 40100

Stormwater Services

Stormwater Services Operational Support

Fund 40100, Stormwater Services, provides funding for staff salaries, Fringe Benefits, and Operating Expenses for all stormwater operations. In addition, Fund 40100 includes 31/30.5 FTE positions related to transportation operations maintenance provided by the Maintenance and Stormwater Management Division. All funding for the transportation related salary expenses and equipment is recovered from General Fund Agency 87, Unclassified Administrative

Stormwater Services supports the following County Vision Elements:



Maintaining Safe and Caring Communities



Connecting People and Places



Practicing Environmental Stewardship

Expenses, Public Works Programs, and Capital Projects related to transportation located in Fund 30010, General Construction and Contributions, and Fund 30060, Pedestrian Walkway Improvements, as they do not qualify for expenses related to the stormwater service district.

Fund 40100 also supports the Urban Forestry Management Division (UFMD). The UFMD was established to mitigate tree loss and maximize tree planting during land development, enforce tree conservation requirements and monitor and suppress populations of Gypsy Moth, Emerald Ash Borer and other forest pests. The division also implements programs needed to sustain the rich level of environmental, ecological and socio-economic services provided by the County's tree canopy. The UFMD is aligned with the mission of Stormwater Services as it strives to *"improve water quality and stormwater management through tree conservation."* Tree canopy and forest soils contribute significant levels of water pollution and stormwater runoff mitigation services. Recent analysis has estimated that the County would need to invest \$1.9 billion dollars in infrastructure to match the level of stormwater management that is provided by its tree canopy during a ten-year storm event.

In FY 2019, the financial functions in Fund 40100, Stormwater Services, and Fund 69010, Sewer Operations and Maintenance, will be combined. More specifically, the following functional areas will be consolidated – financial management, financial reporting and audits, rates setting, budgets, accounting, purchasing, billing, and warehouse needs. The goals of this initiative are to provide savings due to efficiencies and to deliver consistent service for all customers. The positions affected by this change are noted in the positions table under the Budget and Staff Resources section.

Stormwater Regulatory Program

The County is required by federal law to operate under the conditions of a state issued MS4 Permit. Stormwater staff annually evaluates funding required to meet the increasing federal and state regulatory requirements pertaining to the MS4 Permit requirements, and State and Federal mandates associated with controlling water pollution delivered to local streams and the Chesapeake Bay. The MS4 Permit allows the County to discharge stormwater from its stormwater systems into state and federal waters. The County currently owns and/or operates approximately 6,800 regulated outfalls within the stormwater system that are governed by the permit. The current permit was issued to the County in April 2015. The permit requires the County to document the stormwater management facility inventory, enhance public outreach and education efforts, increase water quality monitoring efforts, provide stormwater management and stormwater control training to all County employees, and thoroughly

Fund 40100

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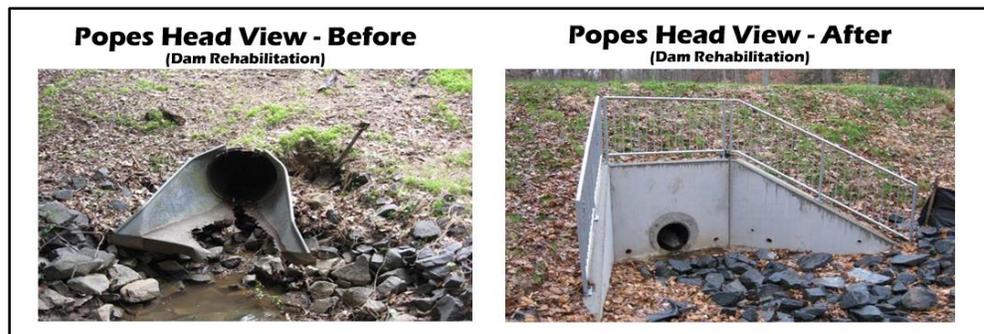
document all of these enhanced efforts. The permit also requires the County to implement sufficient stormwater projects that will reduce the nutrients and sediment delivered to the Chesapeake Bay in compliance with the Chesapeake Bay TMDL implementation plan adopted by the State. Funding in the amount of \$6.5 million is included for the Stormwater Regulatory Program in FY 2019.

Dam Safety and Facility Rehabilitation

There are currently more than 6,200 stormwater management facilities in service that range in size from small rain gardens to large state regulated flood control dams. The County is responsible for inspecting both County owned and privately owned facilities and for maintaining County owned facilities. This inventory increases annually and is projected to continually increase as new development and redevelopment sites are required to install stormwater management controls. This program maintains the control structures and dams that control and treat the water flowing through County owned facilities. This initiative also includes the removal of sediment that occurs in both wet and dry stormwater management

facilities to ensure that adequate capacity is maintained to treat the stormwater. The program results in approximately 70 projects annually that require design

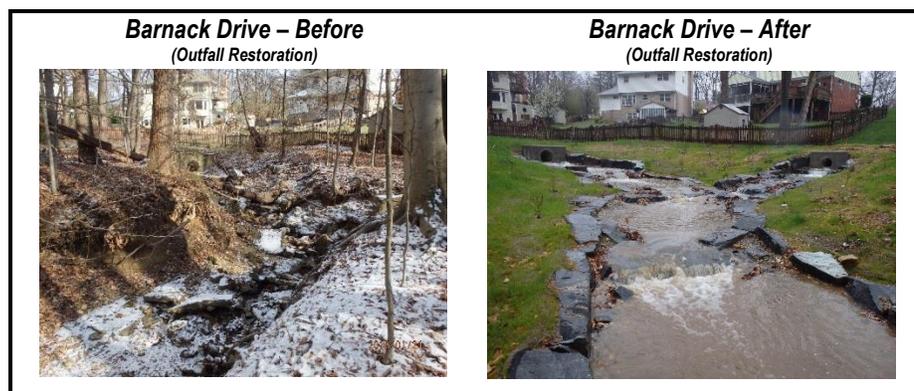
and construction management activities as well as contract management and maintenance responsibilities. Funding in the amount of \$7.5 million is included for Dam Safety and Facility Rehabilitation in FY 2019.



Conveyance System Inspections, Development and Rehabilitation

The County owns and operates approximately 1,400 miles of underground stormwater pipes and improved channels with an estimated replacement value of over one billion dollars. The County began performing internal inspections of the pipes in FY 2006. The initial results showed that more than 5 percent of the pipes were in complete failure and an additional 15 percent

required immediate repair. Increased MS4 Permit regulations apply to these 1,400 miles of existing conveyance systems, 62,000 stormwater structures, and a portion of the immediate downstream channel at the 6,800 pipe outlets. Acceptable industry standards indicate that one dollar re-invested in infrastructure saves seven dollars in the asset's life and 70 dollars if asset failure occurs. Once the initial internal inspections are complete, the goal of this program is to inspect pipes on a 20-year cycle and rehabilitate pipes and improved outfall channels before total failure occurs. Total funding in the amount



Fund 40100 Stormwater Services

of \$7.0 million is included for Conveyance System Inspections, Development and Rehabilitation in FY 2019, including \$2.0 million for inspections and development and \$5.0 million for rehabilitation and outfall restoration.

Stream and Water Quality Improvements

This program funds water quality improvement projects necessary to mitigate the impacts to local streams and the Chesapeake Bay resulting from urban stormwater runoff. This includes water quality projects such as construction of stormwater management ponds, implementation of low impact development techniques on stormwater facilities, stream restoration, and approximately 1,700 water quality projects identified in the completed countywide Watershed Management Plans. In addition, Total

Maximum Daily Load (TMDL) requirements for local streams and the Chesapeake Bay are the regulatory process by which pollutants entering impaired water bodies are reduced. The Chesapeake Bay TMDL was established by the EPA and requires that



MS4 communities as well as other dischargers implement measures to significantly reduce the nitrogen, phosphorous and sediment loads entering waters draining to the Bay by 2025. Compliance with the Bay TMDL requires that the County should undertake construction of new stormwater facilities, retrofit existing facilities and properties, and increase maintenance. Based on several years of experience constructing projects, and including recent changes in the nutrient accounting guidelines, staff has reduced the estimated cost of compliance with the Bay TMDL to approximately \$25 million per year. The EPA is currently updating the Bay model and it is anticipated that the update will result in changes to both the assigned targets as well as how projects are credited, which will likely impact future compliance estimates. In addition to being required to meet Bay TMDL targets, the current MS4 Permit requires the County to develop and implement action plans to address local impairments. Most of the 1,700 watershed management plan projects contribute toward achieving the bay and local stream TMDL requirements. Funding in the amount of \$24.2 million is included for Stream and Water Quality Improvements in FY 2019.

Emergency and Flood Response Projects

This program supports flood control projects for unanticipated flooding events that impact storm systems and flood residential properties. The program provides annual funding for scoping, design, and minor construction activities related to flood mitigation projects. Funding in the amount of \$5.0 million is included for the Emergency and Flood Response Projects in FY 2019.

Flood Prevention in the Huntington Area

This program will address the health and public safety concerns associated with the recurring flooding in the Huntington area by designing and constructing a levee and community drainage improvements that will ensure the safe operation and long-term sustainability of this critical piece of infrastructure. Initial funding of \$30.0 million was approved as part of the 2012 Stormwater Bond Referendum. The bond amount approved by the voters was based on a preliminary design by the US Army Corps of Engineers

Fund 40100

Stormwater Services

(USACE). The current, updated total project estimate is approximately \$40.0 million. To accommodate funding beyond that currently approved, a strategy was developed using a portion of revenue from the Stormwater Service District allocated to the Stream and Water Quality Improvements Program. The strategy reallocates a total of \$10.0 million over a four-year period. Use of the Stormwater Service District for this project is consistent with the goals of the program to address structural flooding and other critical community stormwater needs. Funding in the amount of \$3.0 million is included for Flood Prevention in the Huntington area in FY 2019.

Stormwater Allocation to Towns

On April 18, 2012, the State Legislature passed SB 227, which entitles the Towns of Herndon and Vienna to all revenues collected within their boundaries by Fairfax County's stormwater service district. An agreement was developed for a coordinated program whereby the Towns remain part of the County's service district and the County returns 25 percent of the revenue collected from properties within each town. This allows for the towns to provide services independently such as maintenance and operation of stormwater pipes, manholes, and catch basins. The remaining 75 percent remains with the County and the County takes on the responsibility for the Towns' Chesapeake Bay TMDL requirements as well as other TMDL and MS4 requirements. This provides for an approach that is based on watersheds rather than on jurisdictional lines. Funding in the amount of \$0.8 million is included for the Stormwater Allocations to Towns project in FY 2019.

Stormwater Related Contributory Program

Contributory funds are provided to the Northern Virginia Soil and Water Conservation District (NVSWCD) and the Occoquan Watershed Monitoring Program (OWMP). The NVSWCD is an independent subdivision of the Commonwealth of Virginia that provides leadership in the conservation and protection of Fairfax County's soil and water resources. It is governed by a five-member Board of Directors, three of whom are elected every four years by the voters of Fairfax County and two who are appointed by the Virginia Soil and Water Conservation Board. Accordingly, the work of NVSWCD supports many of the environmental efforts set forth in the Board of Supervisors' Environmental Excellence 20-year Vision Plan. The goal of the NVSWCD is to continue to improve the quality of the environment and general welfare of the citizens of Fairfax County by providing them with a means of dealing with soil, water conservation and related natural resource problems. It provides County agencies with comprehensive environmental evaluations for proposed land use changes with particular attention to the properties of soils, erosion potential, drainage and the impact on the surrounding environment. NVSWCD has consistently been able to create partnerships and leverage state, federal and private resources to benefit natural resources protection in Fairfax County. FY 2019 funding of \$0.5 million is included in Fund 40100 for the County contribution to the NVSWCD.

The OWMP and the Occoquan Watershed Monitoring Laboratory (OWML) were established to ensure that water quality is monitored and protected in the Occoquan Watershed. Given the many diverse uses of the land and water resources in the Occoquan Watershed (agriculture, urban residential development, commercial and industrial activity, water supply, and wastewater disposal), the OWMP plays a critical role as the unbiased interpreter of basin water quality information. FY 2019 funding of \$0.1 million is included in Fund 40100 for the County contribution to the OWMP.

Fund 40100 Stormwater Services

Budget and Staff Resources

| Category | FY 2017 Actual | FY 2018 Adopted | FY 2018 Revised | FY 2019 Advertised | FY 2019 Adopted |
|--|---------------------|---------------------|----------------------|-----------------------|---------------------|
| FUNDING | | | | | |
| Expenditures: | | | | | |
| Personnel Services | \$17,669,874 | \$20,338,650 | \$18,923,948 | \$20,348,949 | \$20,348,949 |
| Operating Expenses | 2,510,805 | 2,479,095 | 3,105,293 | 3,061,636 | 3,061,636 |
| Capital Equipment | 895,088 | 581,500 | 1,120,007 | 808,000 | 808,000 |
| Capital Projects | 46,993,026 | 48,577,294 | 120,781,264 | 54,672,620 | 54,672,620 |
| Subtotal | \$68,068,793 | \$71,976,539 | \$143,930,512 | \$78,891,205 | \$78,891,205 |
| Less: | | | | | |
| Recovered Costs | (\$2,870,540) | (\$2,703,233) | (\$1,868,755) | (\$2,129,955) | (\$2,129,955) |
| Total Expenditures | \$65,198,253 | \$69,273,306 | \$142,061,757 | \$76,761,250 | \$76,761,250 |
| AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE) | | | | | |
| Regular | 179 / 179 | 181 / 181 | 181 / 181 | 186 / 186 | 186 / 186 |

Fund 40100

Stormwater Services

| | | |
|---|--|---|
| <p><u>Maintenance and Stormwater Management (MSMD)</u></p> <p><u>Administration</u></p> <p>1 Director, Maintenance and SW</p> <p>1 Management Analyst IV **</p> <p>1 HR Generalist II</p> <p>1 Network/Telecom. Analyst I</p> <p>1 Information Technology Tech. III</p> <p>1 Safety Analyst</p> <p>1 Administrative Assistant V</p> <p>1 Administrative Assistant IV **</p> <p>2 Administrative Assistants III **</p> <p>3 Administrative Assistants II</p> <p>2 Financial Specialists II **</p> <p><u>Contracting Services/ Material Support</u></p> <p>1 Material Mgmt. Specialist III **</p> <p>2 Contract Analysts I **</p> <p>1 Inventory Manager **</p> <p><u>Dam Safety and Maintenance Projects/Projects and LID/Inspection and Maintenance</u></p> <p>1 Public Works-Env. Serv. Manager</p> <p>1 Engineer IV</p> <p>1 Senior Engineer III</p> <p>2 Engineers III (1)</p> <p>1 Ecologist III</p> <p>1 Ecologist II</p> <p>4 Engineering Technicians III</p> <p>1 Engineering Technician II</p> <p>1 Engineering Technician I</p> <p>2 Project Managers II</p> <p>4 Project Managers I (1)</p> | <p><u>Field Operations</u></p> <p>2 Env. Services Supervisors</p> <p>1 Public Works-Env. Serv. Manager</p> <p>1 Senior Environmental Specialist</p> <p>2 Environmental Services Specialists</p> <p>3 Senior Maintenance Supervisors</p> <p>10 Maintenance Supervisors</p> <p>3 Maintenance Crew Chiefs</p> <p>14 Senior Maintenance Workers</p> <p>2 Maintenance Workers</p> <p>9 Heavy Equipment Operators</p> <p>10 Motor Equipment Operators</p> <p>3 Masons</p> <p>1 Vehicle Maintenance Coordinator</p> <p>4 Engineering Technicians III</p> <p>1 Carpenter I</p> <p>1 Equipment Repairer</p> <p>1 Welder II</p> <p><u>Stormwater Infrastructure Branch</u></p> <p>1 Public Works-Env. Serv. Manager</p> <p>2 Engineers IV</p> <p>3 Engineers III</p> <p>1 Project Manager I</p> <p>1 Engineering Technician III</p> <p>2 Engineering Technicians II</p> <p>1 Engineering Technician I</p> <p>1 Senior Engineering Inspector</p> <p><u>Transportation Infrastructure Branch</u></p> <p>1 Engineer V</p> <p>1 Engineer IV</p> <p>1 Project Manager II (1)</p> <p>2 Project Managers I (1)</p> <p>1 Engineering Technician III</p> <p>2 Engineering Technicians II</p> | <p><u>Stormwater Planning Division</u></p> <p>1 Director, Stormwater Planning</p> <p>1 Engineer V</p> <p>4 Engineers IV</p> <p>2 Senior Engineers III</p> <p>8 Engineers III</p> <p>1 Public Works-Env. Serv. Manager</p> <p>3 Project Managers II</p> <p>1 Project Manager I</p> <p>3 Project Coordinators</p> <p>2 Ecologists IV</p> <p>5 Ecologists III</p> <p>4 Ecologists II</p> <p>1 Emergency Mgmt. Specialist III</p> <p>2 Landscape Architects III</p> <p>2 Engineering Technicians III</p> <p>1 Administrative Assistant III</p> <p>1 Administrative Assistant II</p> <p>1 Management Analyst II</p> <p>3 Code Specialists II (1)</p> <p>1 Contract Specialist II</p> <p>1 Financial Specialist II **</p> <p>1 Financial Specialist I **</p> <p><u>Urban Forestry</u></p> <p>1 Director, Urban Forestry Division</p> <p>1 Urban Forester IV</p> <p>1 Urban Forester III</p> <p>8 Urban Foresters II</p> |
| <p><u>TOTAL POSITIONS</u></p> <p>186 Positions (5) / 186.0 FTE (5.0)</p> | <p>** Denotes Positions Being Consolidated with Wastewater</p> <p>() Denotes New Position(s)</p> | |

FY 2019 Funding Adjustments

The following funding adjustments from the FY 2018 Adopted Budget Plan are necessary to support the FY 2019 program. Included are all adjustments recommended by the County Executive that were approved by the Board of Supervisors, as well as any additional Board of Supervisors' actions, as approved in the adoption of the Budget on May 1, 2018.

- ◆ **Employee Compensation** **\$716,438**
 An increase of \$716,438 in Personnel Services includes \$416,961 for a 2.25 percent market rate adjustment (MRA) for all employees and \$289,381 for performance-based and longevity increases for non-uniformed merit employees, both effective July 2018, as well as an increase of \$10,096 for employee pay increases for specific job classes identified in the County's benchmark class survey of comparator jurisdictions.

Fund 40100

Stormwater Services

- ◆ **Other Post-Employment Benefits** **\$79,107**
An increase of \$79,107 in Personnel Services reflects required adjustments associated with providing Other Post-Employment Benefits (OPEBs) to retirees, including the Retiree Health Benefits Subsidy. For more information on Other Post-Employment Benefits, please refer to Fund 73030, OPEB Trust, in Volume 2 of the [FY 2019 Adopted Budget Plan](#).
- ◆ **New Positions** **\$368,256**
A net increase of \$368,256 includes an increase of \$629,456 in Personnel Services that is necessary to fund salary and Fringe Benefits requirements associated with 1/1.0 FTE Code Specialist II position, 1/1.0 FTE Engineer III position, 2/2.0 FTE Project Manager I positions, and 1/1.0 FTE Project Manager II position. This increase is partially offset by an increase of \$261,200 in Recovered Costs. The Code Specialist II will support the Industrial and High Risk Runoff and Illicit Discharge and Improper Disposal Programs as part of the Watershed Assessment Branch. These programs are essential to maintain compliance with the requirements of the MS4 Permit and to enforce provisions of Chapter 124 of the [Fairfax County Code](#). The Engineer III will perform predictive modeling and analysis for the asset management system, analyze maintenance trends and lifecycle data of assets, manage the inventory, perform plan intake and review, manage asset creation, and track nutrient credit purchases and all recorded private maintenance agreements. The Project Manager I will support the MS4 Permit Stormwater Pollution Prevention Plan (SWPPP) Program by identifying high priority municipal facilities, overseeing the SWPPP creation process, conducting initial site visits with facility managers, developing lists of corrective actions, overseeing project management of engineered solutions such as overhangs, vehicle wash pads, and sheds, and conducting staff training. The second Project Manager I and the Project Manager II will support the Transportation Operations Branch with a focus on the Commercial Revitalization District Program. These positions will facilitate the coordination between the Board of Supervisors, Office of Community Revitalization and community groups in each area with the goal to choose and implement each project. The costs of these two positions will be charged to capital projects within Fund 30010, General Construction and Contributions.
- ◆ **Urban Forestry Positions Adjustments** **\$0**
A decrease of \$834,478 in Personnel Services and a decrease of \$834,478 in Recovered Costs is required based on cost distribution adjustments associated with ten positions in the Urban Forestry Division. The salary and Fringe Benefits costs associated with these positions were recovered manually from Agency 31, Land Development Services. As part of the *FY 2017 Carryover Review*, a decrease in Personnel Services and a corresponding decrease in Recovered Costs were approved, and cost distribution adjustments were made for these positions in the FOCUS system, leading to a more efficient and precise automatic billing process. Similar adjustments to Personnel Services and Recovered Costs are necessary in FY 2019. There is no net impact to this fund.
- ◆ **Operational Requirements** **\$0**
A decrease of \$580,224 in Personnel Services and an increase of \$580,224 in Operating Expenses is required based on the transfer of 7/7.0 FTE positions from Fund 40100, Stormwater Services, to Agency 25, Business Planning and Support. These positions were transferred in order to better support the Department of Public Works and Environmental Services' (DPWES) four core business areas and enhance department-wide Information technology initiatives. As part of the *FY 2017 Carryover Review*, a decrease in Personnel Services and a corresponding increase in Operating

Fund 40100

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Expenses were made. Similar adjustments to Personnel Services and Operating Expenses are necessary in FY 2019. There is no net impact to this fund.

- ◆ **Operating Expenses** **\$2,317**
An increase of \$2,317 in Operating Expenses is required based on growth in operational requirements associated with the Urban Forestry Division.

- ◆ **Capital Equipment** **\$808,000**
Capital Equipment funding of \$808,000 is included for requirements associated with replacement equipment that has outlived its useful life and is critical to carryout stormwater services activities. The equipment includes: \$100,000 to replace a compact excavator that is essential for excavating work sites; \$76,000 to replace two compact backhoe loaders that are essential for excavating work sites, loading trucks with bulk materials and moving heavy objects; \$390,000 to replace three dump trucks that are critical to transport large loads of snow chemicals, bulk construction materials and equipment; \$70,000 to replace a mower that is required for safe steep slope mowing as part of the dam maintenance program at state regulated dams; \$75,000 to upgrade a wood chipper, which is used in routine operations to better handle larger jobs, increase productivity, and decrease the need for hauling; \$10,000 to purchase two enclosed cargo trailers to support the Heavy Maintenance Section by providing support for the transportation and secure storage of equipment to and from active job sites; \$27,000 to purchase a landscaper hydroseeder to support the Heavy Maintenance Section by providing support for applying seed, fertilizer, and mulch in a fast and efficient manner to large disturbed areas as well as eliminating the need to regularly rent this equipment; and \$60,000 to replace a skid-steer loader, which is critical in all maintenance programs in support of excavating work, loading trucks, and moving heavy objects.

- ◆ **Capital Projects** **\$54,672,620**
Funding in the amount of \$54,672,620 has been included in FY 2019 for priority stormwater capital projects.

Changes to FY 2018 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2018 Revised Budget Plan since passage of the FY 2018 Adopted Budget Plan. Included are all adjustments made as part of the FY 2017 Carryover Review, FY 2018 Third Quarter Review, and all other approved changes through April 30, 2018.

- ◆ **Carryover Adjustments** **\$69,031,292**
As part of the FY 2017 Carryover Review, the Board of Supervisors approved funding of \$69,031,292 based on the carryover of unexpended project balances in the amount of \$65,009,950 and a net adjustment of \$4,021,342. This adjustment includes the carryover of \$584,481 in operating and capital equipment encumbrances and an increase to capital projects of \$3,436,861. The adjustment to capital projects is based on the appropriation of the remaining operational savings of \$2,532,641, miscellaneous revenues received in FY 2017 in the amount of \$89,911 and bond premium in the amount of \$1,160,000 received in FY 2017 associated with the January 2017 bond sale partially offset by lower than anticipated revenues of \$345,691.

Fund 40100 Stormwater Services

◆ **Third Quarter Adjustments**

\$3,757,159

As part of the *FY 2018 Third Quarter Review*, the Board of Supervisors approved funding of \$3,757,159 due to the appropriation of anticipated grant revenue of \$3,710,659 approved by the Board of Supervisors on September 12, 2017, and the appropriation of proffer revenues of \$46,500 received in FY 2018 through the land development process that will support Stormwater projects.

Key Performance Measures

| Indicator | Prior Year Actuals | | | Current Estimate | Future Estimate |
|--|--------------------|----------------|-------------------------|------------------|-----------------|
| | FY 2015 Actual | FY 2016 Actual | FY 2017 Estimate/Actual | FY 2018 | FY 2019 |
| Stormwater Services | | | | | |
| MS4 Permit violations received | 0 | 0 | 0/0 | 0 | 0 |
| Percent of Emergency Action Plans current | 100% | 100% | 100%/100% | 100% | 100% |
| Percent of commuter facilities available 365 days per year | 100% | 100% | 100%/100% | 100% | 100% |

A complete list of performance measures can be viewed at
<https://www.fairfaxcounty.gov/budget/fy-2019-adopted-performance-measures-pm>

Performance Measurement Results

The objective to receive no MS4 Permit violations related to inspection and maintenance of public and private stormwater management facilities was met in FY 2015, FY 2016, and FY 2017. It is expected that this objective will also be met in FY 2018 and FY 2019. It should be noted that the current MS4 Permit was issued in April 2015. The objective to update 100 percent of the emergency action plans that Stormwater is responsible for was met in prior years. It is estimated that this trend will continue in both FY 2018 and FY 2019. Lastly, the objective to keep 100 percent of the commuter facilities operational for 365 days was met in prior years. It is expected that this goal will be met in FY 2018 and FY 2019.

Fund 40100 Stormwater Services

FUND STATEMENT

Fund 40100, Stormwater Services

| | FY 2017 Actual | FY 2018 Adopted Budget Plan | FY 2018 Revised Budget Plan | FY 2019 Advertised Budget Plan | FY 2019 Adopted Budget Plan |
|--|----------------------|-----------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|
| Beginning Balance | \$41,563,638 | \$0 | \$52,643,447 | \$0 | \$0 |
| Revenue: | | | | | |
| Stormwater Service District Levy | \$63,729,309 | \$70,398,306 | \$70,398,306 | \$77,886,250 | \$77,886,250 |
| Sale of Bonds ¹ | 7,840,000 | 0 | 15,750,000 | 0 | 0 |
| Bond Premium ¹ | 1,160,000 | 0 | 0 | 0 | 0 |
| Stormwater Local Assistance Fund (SLAF) Grant ² | 4,485,326 | 0 | 4,348,504 | 0 | 0 |
| Tree Preservation/Planting Fund ³ | 98,516 | 0 | 0 | 0 | 0 |
| Stormwater Proffers ⁴ | 0 | 0 | 46,500 | 0 | 0 |
| Miscellaneous | 89,911 | 0 | 0 | 0 | 0 |
| Total Revenue | \$77,403,062 | \$70,398,306 | \$90,543,310 | \$77,886,250 | \$77,886,250 |
| Total Available | \$118,966,700 | \$70,398,306 | \$143,186,757 | \$77,886,250 | \$77,886,250 |
| Expenditures: | | | | | |
| Personnel Services | \$17,669,874 | \$20,338,650 | \$18,923,948 | \$20,348,949 | \$20,348,949 |
| Operating Expenses | 2,510,805 | 2,479,095 | 3,105,293 | 3,061,636 | 3,061,636 |
| Recovered Costs | (2,870,540) | (2,703,233) | (1,868,755) | (2,129,955) | (2,129,955) |
| Capital Equipment | 895,088 | 581,500 | 1,120,007 | 808,000 | 808,000 |
| Capital Projects | 46,993,026 | 48,577,294 | 120,781,264 | 54,672,620 | 54,672,620 |
| Total Expenditures | \$65,198,253 | \$69,273,306 | \$142,061,757 | \$76,761,250 | \$76,761,250 |
| Transfers Out: | | | | | |
| General Fund (10001) ⁵ | \$1,125,000 | \$1,125,000 | \$1,125,000 | \$1,125,000 | \$1,125,000 |
| Total Transfers Out | \$1,125,000 | \$1,125,000 | \$1,125,000 | \$1,125,000 | \$1,125,000 |
| Total Disbursements | \$66,323,253 | \$70,398,306 | \$143,186,757 | \$77,886,250 | \$77,886,250 |
| Ending Balance⁶ | \$52,643,447 | \$0 | \$0 | \$0 | \$0 |
| Tax Rate Per \$100 of Assessed Value | \$0.0275 | \$0.0300 | \$0.0300 | \$0.0325 | \$0.0325 |

Fund 40100

Stormwater Services

¹ On November 6, 2012, the voters approved a bond referendum in the amount of \$30 million to make storm drainage improvements to prevent flooding and soil erosion, including acquiring any necessary land. This bond money is being used to prevent flooding in the Huntington community. An amount of \$7.84 million was sold in January 2017. In addition, \$1.16 million has been applied to this fund in bond premium associated with the January 2017 sale. A total amount of \$15.75 million remains in authorized but unissued bonds for this fund.

² Represents previously approved Virginia Department of Environmental Quality (VDEQ) Stormwater Local Assistance Fund (SLAF) grants to support stream and water quality improvement projects. The estimated total cost of the projects is \$8,833,830 and it will be supported by VDEQ. An amount of \$4,485,326 was received in FY 2017 and an amount of \$4,348,504 is anticipated in FY 2018 and beyond.

³ Reflects revenues collected through the land development process that will support tree preservation and planting projects.

⁴ Reflects proffer revenues collected through the land development process that will support Stormwater projects.

⁵ Funding in the amount of \$1,125,000 is transferred to the General Fund to partially offset central support services supported by the General Fund, which benefit Fund 40100. These indirect costs include support services such as Human Resources, Purchasing, Budget and other administrative services.

⁶ Capital projects are budgeted based on the total project costs. Most projects span multiple years, from design to construction completion. Therefore, funding for capital projects is carried forward each fiscal year, and ending balances fluctuate, reflecting the carryover of these funds.

Fund 40100 Stormwater Services

FY 2019 Summary of Capital Projects

Fund 40100, Stormwater Services

| Project | Total Project Estimate | FY 2017 Actual Expenditures | FY 2018 Revised Budget | FY 2019 Advertised Budget Plan | FY 2019 Adopted Budget Plan |
|--|------------------------------|-----------------------------------|------------------------------|--------------------------------------|-----------------------------------|
| Conveyance System Inspection/Development (2G25-028-000) | \$8,225,000 | \$1,077,210.28 | \$3,986,929.26 | \$2,000,000 | \$2,000,000 |
| Conveyance System Rehabilitation (SD-000034) | 38,534,135 | 2,674,004.28 | 9,070,406.23 | 5,000,000 | 5,000,000 |
| Dam & Facility Maintenance (2G25-031-000) | 4,700,000 | 0.00 | 4,700,000.00 | 0 | 0 |
| Dam Safety and Facility Rehabilitation (SD- 000033) | 44,026,104 | 7,247,036.99 | 10,233,375.79 | 7,500,000 | 7,500,000 |
| Emergency and Flood Response Projects (SD-000032) | 13,186,091 | 348,772.58 | 3,133,193.71 | 5,000,000 | 5,000,000 |
| Flood Prevention-Huntington Area-2012 (SD-000037) | 42,750,000 | 6,490,477.13 | 28,261,426.48 | 3,000,000 | 3,000,000 |
| Laurel Hill Adaptive Reuse Infrastructure (SD-000038) | 1,925,000 | 691,409.64 | 861,806.72 | 0 | 0 |
| NVSWCD Contributory (2G25-007-000) | 4,283,344 | 485,064.00 | 527,730.00 | 527,730 | 527,730 |
| Occoquan Monitoring Contributory (2G25-008-000) | 1,050,470 | 120,236.00 | 123,445.00 | 128,383 | 128,383 |
| Stormwater Allocation to Towns (2G25-027-000) | 4,144,829 | 595,173.01 | 1,004,826.99 | 800,000 | 800,000 |
| Stormwater Facility (SD-000039) | 8,515,000 | 0.00 | 8,515,000.00 | 0 | 0 |
| Stormwater Proffers (2G25-032-000) | 46,500 | 0.00 | 46,500.00 | 0 | 0 |
| Stormwater Regulatory Program (2G25-006-000) | 56,846,651 | 8,981,665.88 | 9,545,709.89 | 6,500,000 | 6,500,000 |
| Stream & Water Quality Improvements (SD- 000031) | 127,157,185 | 18,278,236.02 | 39,977,010.51 | 24,216,507 | 24,216,507 |
| Towns Grant Contribution (2G25-029-000) | 1,817,970 | 0.00 | 699,127.45 | 0 | 0 |
| Tree Preservation and Plantings (2G25-030-000) | 98,516 | 3,740.50 | 94,775.63 | 0 | 0 |
| Total | \$357,306,795 | \$46,993,026.31 | \$120,781,263.66 | \$54,672,620 | \$54,672,620 |