





	Prior												FY 2025
	Appropriations	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034		FY 2034
<b>Stormwater Management</b>													
<b>Stormwater Management</b>													
Braddock and West Flood Management	198,000	-	-	-	-	-	-	-	-	-	-	-	-
City Facilities Stormwater Best Management Practices (BMPs)	1,733,000	-	-	-	-	-	-	-	-	-	-	-	-
Floodproofing Grant Program	2,308,000	809,000	830,000	851,000	873,000	895,000	918,000	941,000	965,000	900,000	922,500	8,904,500	
Four Mile Run Channel Maintenance	4,411,881	300,000	300,000	-	1,251,300	2,900,000	-	300,000	300,000	300,000	300,000	5,951,300	
Green Infrastructure	2,465,593	1,549,600	-	-	-	-	-	-	-	275,000	-	1,824,600	
Hooffs Run Culvert Maintenance	5,364,192	-	1,616,000	-	-	-	-	2,510,000	-	-	-	4,126,000	
Inlet Capacity Program	1,584,100	-	-	-	-	-	-	-	-	-	-	-	
Inspection and Cleaning (State of Good Repair) CFMP	2,768,000	1,578,000	1,695,000	1,835,000	2,006,000	2,220,000	2,496,000	2,862,000	3,304,000	3,766,000	4,098,100	25,860,100	
Large Capacity - Commonwealth Ave, E. Glebe Rd & Ashby St	47,534,073	-	-	-	-	-	-	-	-	-	-	-	
Large Capacity - Hooffs Run Culvert Bypass	10,787,000	8,088,050	24,264,100	16,176,100	-	-	-	-	-	-	-	48,528,250	
Lucky Run Stream Restoration	3,990,546	-	-	-	-	-	-	-	-	-	-	-	
Mount Vernon Dual Culvert Upgrade	2,500,000	-	-	-	-	-	-	-	-	-	-	-	
MS4-TDML Compliance Water Quality Improvements	4,891,000	1,800,000	2,050,000	1,750,000	2,000,000	2,575,000	1,500,000	1,000,000	1,750,000	1,000,000	1,000,000	16,425,000	
NPDES / MS4 Permit	1,337,938	171,700	173,500	175,200	177,000	178,700	180,500	182,200	185,900	185,900	190,176	1,800,776	
Small-Midsize Stormwater Maintenance Projects	1,695,200	649,100	685,900	724,400	765,800	809,100	854,200	901,400	922,900	944,900	967,400	8,225,100	
Spot Project - Hume Avenue Bypass	4,567,216	-	-	-	-	-	-	-	-	-	-	-	
Spot Project - Mt. Vernon Cul-de-sac and Alley	1,232,784	-	-	-	-	-	-	-	-	-	-	-	
Storm Sewer Capacity Projects	11,349,307	-	15,950,000	15,200,000	13,702,000	6,680,000	6,343,000	4,000,000	7,000,000	5,000,000	4,000,000	77,875,000	
Storm Sewer System Spot Improvements	13,646,292	4,122,000	4,228,000	4,337,000	4,540,000	4,606,000	4,688,000	4,812,000	4,937,000	5,060,425	5,187,000	46,517,425	
Stormwater BMP Maintenance CFMP	1,109,500	1,575,300	1,622,500	317,100	326,600	336,400	346,500	356,900	1,792,200	365,800	375,000	7,414,300	
Stormwater Utility Implementation	1,673,200	-	-	-	-	-	-	-	-	-	-	-	
Strawberry Run Stream Restoration	972,728	-	-	-	-	-	-	-	-	-	-	-	
Stream & Channel Maintenance	8,614,454	934,700	962,700	991,600	1,021,400	1,052,000	1,083,600	1,116,100	1,149,600	1,178,340	1,204,800	10,694,840	
Taylor Run Stream Restoration	2,508,363	-	-	-	-	-	-	-	-	-	-	-	
<b>Stormwater Management Total</b>	<b>139,242,367</b>	<b>21,577,450</b>	<b>54,377,700</b>	<b>42,357,400</b>	<b>26,663,100</b>	<b>22,252,200</b>	<b>18,409,800</b>	<b>18,981,600</b>	<b>22,306,600</b>	<b>18,976,365</b>	<b>18,244,976</b>	<b>264,147,191</b>	







## CITY FACILITIES STORMWATER BEST MANAGEMENT PRACTICES (BMPs)

DOCUMENT SUBSECTION: Stormwater Management  
 MANAGING DEPARTMENT: Department of Transportation and Environmental Services

PROJECT LOCATION: Citywide  
 REPORTING AREA: Citywide

PROJECT CATEGORY: 3  
 ESTIMATE USEFUL LIFE: 21 - 25 Years

City Facilities Stormwater Best Management Practices (BMPs)													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Prior Appropriations	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total FY 2025 - FY 2034
<b>Expenditure Budget</b>	<b>1,733,000</b>	<b>1,733,000</b>	-	-	-	-	-	-	-	-	-	-	-
Financing Plan													
Cash Capital	125,000	125,000	-	-	-	-	-	-	-	-	-	-	-
GO Bonds (Stormwater)	1,133,000	1,133,000	-	-	-	-	-	-	-	-	-	-	-
Stormwater Utility Fund	475,000	475,000	-	-	-	-	-	-	-	-	-	-	-
<b>Financing Plan Total</b>	<b>1,733,000</b>	<b>1,733,000</b>	-	-	-	-	-	-	-	-	-	-	-

### CHANGES FROM PRIOR YEAR CIP

No changes from prior CIP.

### PROJECT DESCRIPTION & JUSTIFICATION

This program targets City-owned facilities and properties for the installation of stormwater quality best management practices (BMPs) to meet the Chesapeake Bay (Bay) Total Maximum Daily Load (TMDL) enforced by the Virginia Department of Environmental Quality (DEQ) through the issuance of the City's Municipal Separate Storm Sewer System (MS4) Permit. The MS4 permit mandates City-specific stormwater nutrient (phosphorus and nitrogen) reduction targets to clean up the Chesapeake Bay enforced through three 5-year MS4 permit cycles. The 2013-2018 MS4 permit required a 5% reduction, while the 2018-2023 required an additional 35% or 40% of the total. The remaining 60% or 100% of the reduction must be met on or before the end of the third 5-year permit cycle (2023-2028), no later than 2028. Upcoming planning and analysis efforts that look at new modeling data and water quality monitoring are likely to revise the nutrient mandates with goals beyond the 2028 MS4 permit.

In October 2022, the Chesapeake Bay Executive Council has charged the Principal Staff Committee with recommending a critical path forward to meeting the Bay TMDL. The report, "The Executive Council Charge to the Principals' Staff Committee: Charting a Course to 2025 and Beyond" was published on January 17, 2024. Additionally, planned Bay modeling updates must include Climate Change predictions and other new data. Early estimates show that the current mandates will be increased and therefore are likely required beyond the 2028 date in subsequent permits.

The City's Chesapeake Bay TMDL Action Plan identifies retrofitting of regional ponds, implementing new regional ponds, BMP retrofits on City properties, retrofits in the Right-of-Way, stream restoration, and other strategies towards meeting mandated pollutant reduction goals, with this project targeting BMPs on City properties to include the Right-of-Way.

Working closely with the General Services; Recreation, Parks and Cultural Activities; and Project Implementation departments, the following locations, among others, have been identified as potential locations for stormwater retrofits that include:

- T&ES/Recreation operations at 2900 Business Center Drive,
- City Fuel Island on Wheeler Avenue,
- ACPS Mount Vernon Elementary School and Recreation Center, and
- City Traffic Control Shop on Colvin Street.

The City has identified at least 16 potential locations in addition to the above list that may treat stormwater from a total of approximately 4-8 acres of impervious surface. These sites have been selected because of the facilities' operational stormwater impacts and their relatively high percentage of impervious acreage.

This project provides for the inspection and maintenance of existing and planned BMP retrofits to ensure proper functioning to continue achieving the City's mandated water quality goals to clean up the Chesapeake Bay.

#### EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

#### ADDITIONAL OPERATING IMPACTS

City of Alexandria Municipal Separate Storm Sewer System (MS4) General Permit, Program Plan and Year 5 Annual Report; Chesapeake Bay TMDL Action Plan; T&ES Strategic Plan; Eco-City Charter and Action Plan

No additional operating impacts identified at this time.

## FLOODPROOFING GRANT PROGRAM

DOCUMENT SUBSECTION: Stormwater Management  
 MANAGING DEPARTMENT: Transportation and Environmental Services

PROJECT LOCATION: Citywide  
 REPORTING AREA: Citywide

PROJECT CATEGORY: 1  
 ESTIMATE USEFUL LIFE: Varies

Floodproofing Grant Program													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Prior Appropriations	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total FY 2025 - FY 2034
<b>Expenditure Budget</b>	<b>11,212,500</b>	<b>2,308,000</b>	<b>809,000</b>	<b>830,000</b>	<b>851,000</b>	<b>873,000</b>	<b>895,000</b>	<b>918,000</b>	<b>941,000</b>	<b>965,000</b>	<b>900,000</b>	<b>922,500</b>	<b>8,904,500</b>
Financing Plan													
Stormwater Utility Fund	11,212,500	2,308,000	809,000	830,000	851,000	873,000	895,000	918,000	941,000	965,000	900,000	922,500	8,904,500
<b>Financing Plan Total</b>	<b>11,212,500</b>	<b>2,308,000</b>	<b>809,000</b>	<b>830,000</b>	<b>851,000</b>	<b>873,000</b>	<b>895,000</b>	<b>918,000</b>	<b>941,000</b>	<b>965,000</b>	<b>900,000</b>	<b>922,500</b>	<b>8,904,500</b>
Operating Impact	-	-	-	-	-	-	-	-	-	-	-	-	-

### CHANGES FROM PRIOR YEAR CIP

Funding added for FY 2034.

### PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project, initiated in FY 2022 under the Flood Action Alexandria program, is to provide grant funding to private property owners to mitigate flooding impacts to their primary residence because of recent climate change-induced flash flooding and cloudburst events. This project was recommended by the 2020 Interdepartmental Flooding Management Task Force and was supported in the City’s 2020 legislative package, which was successful in revising the state code to provide clear authority to support localities dealing with the impacts of flooding to implement a jurisdictional-wide grant program to implement floodproofing measures on private property for the health and safety of the community.

The original pilot program targeted properties that had experienced past flooding by requiring documentation of past flooding. The City conducted an analysis that showed the pilot was effective at reaching property owners with prior flooding. In October 2023, the City updated the Flood Mitigation Grant Program to open eligibility to all property owners by removing the requirement to document past flooding. The update also included eligibility for associations to apply for a 50/50 matching grant, up to \$25,000, on work completed on association common areas. Staff will continue to employ a continual improvement process by gathering data and information in consideration of any needed future adjustments. The program incentivizes implementation of flood mitigation measures and allows property owners to experience immediate benefits to mitigate flooding issues.

This program is administered like the City’s Backflow Preventer Program, which provides reimbursement to those who have installed backflow preventers to protect against sanitary sewer backups. This program provides reimbursement for floodproofing installed to mitigate flooding issues in the near-term.

The Flooding Mitigation Pilot Program Manual document frames the program and policies, to include processes, funding level, and eligible reimbursable expenses. The grant program includes:

- Reimbursement for 50% of the cost of installed improvements, not to exceed \$5,000 reimbursed to the property owner for individual applicants.
- Reimbursement for 50% of the cost of installed improvements, not to exceed \$25,000 reimbursed to associations on behalf of work done for the association common area.
- Total funding for FY 2025: \$809,000
- Eligible reimbursable practices and expenses include installation of floodproof doors and windows, and other measures to prevent water from entering a structure, with examples included in online materials
- Applications are processed using the City’s APEX permitting system

#### EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Eco-City Charter; Strategic Plan, MS4 General Permit; Environmental Action Plan (EAP) 2040; City of Alexandria Storm Sewer Capacity Analysis (CASSCA); Flood Action Alexandria

#### ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.





















































