

Stormwater Capital Improvement Program

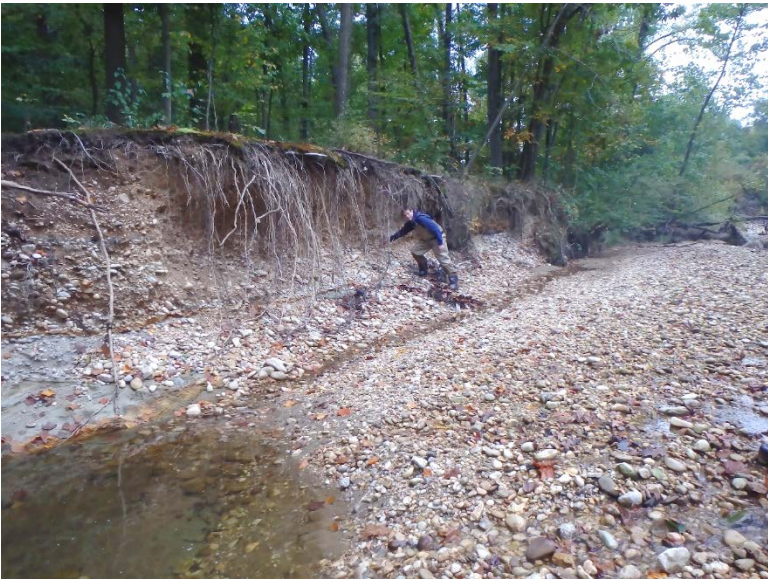
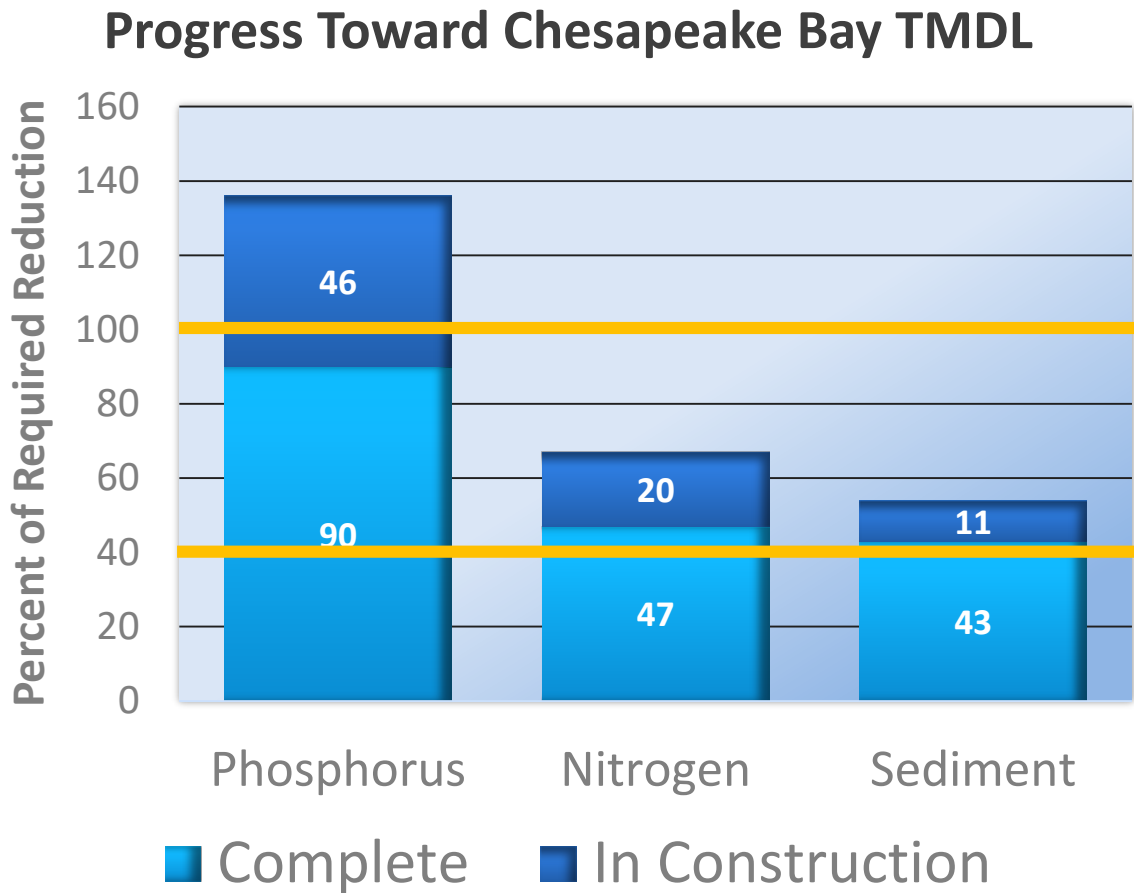
FY 2020 – FY 2024

Department of Public Works and Environmental Services
Working for You!



A Fairfax County, VA, publication
March 13, 2019

The Need for Stormwater Funding



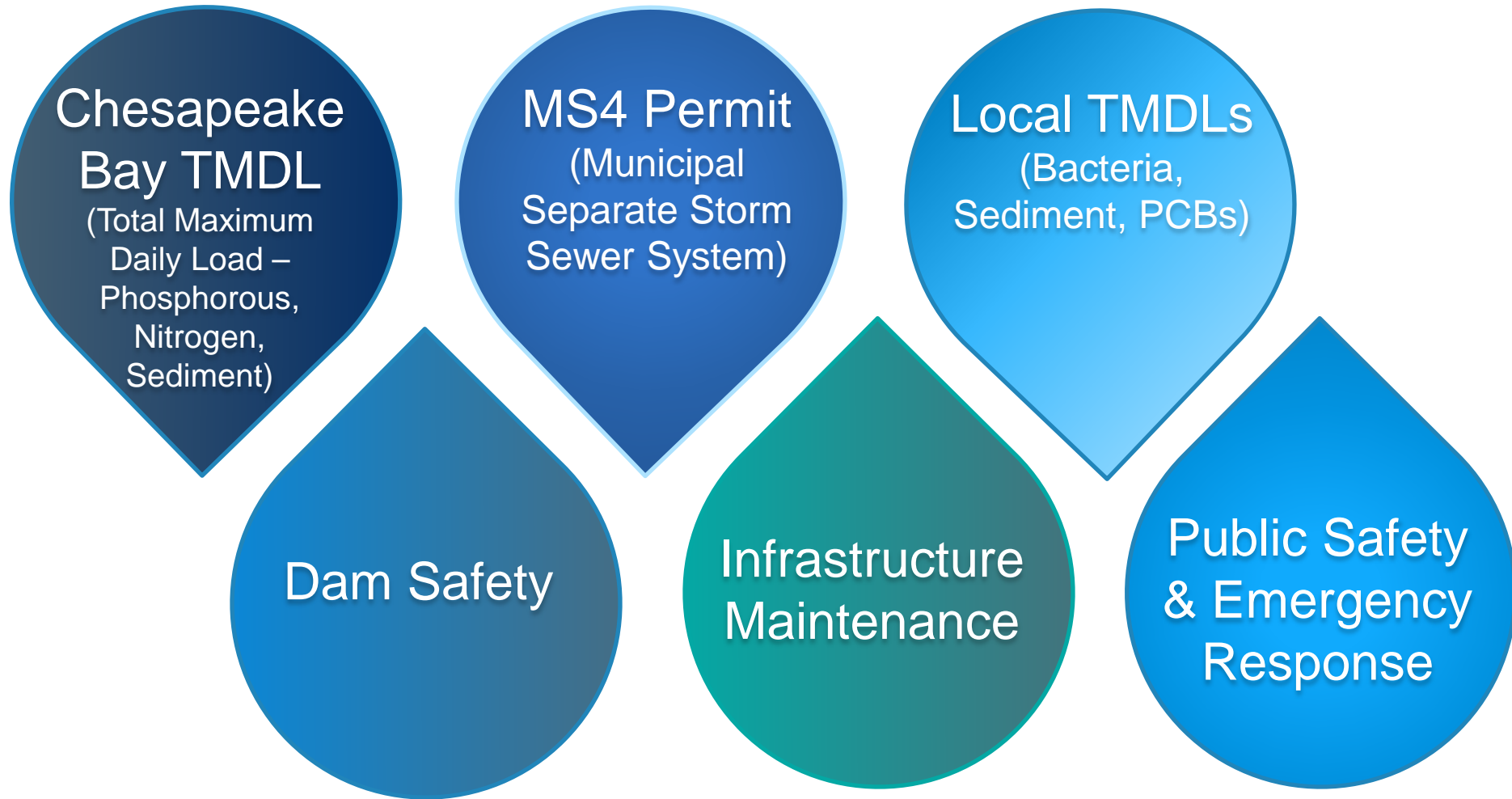
Backlick Run
Mason & Lee
Districts



Dogue Creek Tributary
Lee District



Drivers



Flood Prevention (Huntington Area)

Project Title/ Project Number	2020	2021	2022	2023	2024	Total FY2020- FY2024	Total FY 2025- FY2029
Flood Prevention – Huntington Area 2012 SD-000037	3,000	2,245				5,245	



Huntington Levee – TPE \$40 million
Mount Vernon District



Stormwater Consolidation Facility

Project Title/ Project Number	2020	2021	2022	2023	2024	Total FY2020- FY2024	Total FY2025- FY 2029
Stormwater/Wastewater Facility SD-000039	40,000		30,000			70,000	



1 SITE PLAN
SCALE: 1"=50'-0"

0 10' 20' 30' 40' 50' 60' 70' 80' 90' 100' 110' 120' 130' 140' 150' 160' 170' 180' 190' 200'

SCALE: 1"=50'-0"

Schedule

- Design & Permit – February 2018 – June 2020
- Bid – June 2020
- Substantial Completion – December 2023 (Multiple phases)

Braddock District



Dam and Facility Maintenance, Safety, and Facility Rehabilitation

Project Title/ Project Number	2020	2021	2022	2023	2024	Total FY2020- 2024	Total FY2025- FY2029
Dam Safety and Facility Rehabilitation and Dam and Facility Maintenance, SD-000033 and 2G25-031-000	9,000	11,500	16,600	16,600	16,600	70,300	83,000



Before



After

Browns Chapel
Hunter Mill District

Conveyance System Rehabilitation and Inspections

Project Title/ Project Number	2020	2021	2022	2023	2024	Total FY2020- FY2024	Total FY2025- FY2029
Conveyance System Rehabilitation and Convenyance System Inspections and Dev./ SD-000034 and 2G25- 028-000	8,500	9,500	10,000	11,000	11,000	50,000	55,000



Terrett Court
Mason District



Heritage Crossing Lane
Sully District



Lenox Drive Outfall – Before and After
Springfield District



Streams and Water Quality Improvements

Project Title/ Project Number	2020	2021	2022	2023	2024	Total FY2020- FY2024	Total FY2025- FY2029
Stream and Water Quality Improvements / SD-000031	25,624	26,000	26,000	26,000	26,000	129,624	130,000



Flatlick Branch
Sully District



Pohick Tributary
Braddock District

Completed Facilities FY 2010 – FY 2018

Practices	Number Installed	Capital Cost (\$/(lb/yr))		
		TN	TP	TSS
Practices				
Stream Restoration	34	\$ \$1,650	\$ 5,860	\$ 20
Pond Retrofits	51	\$ 3,150	\$ 32,900	\$ 25
Infiltration Swales & Trenches	14	\$ 9,780	\$ 123,00	\$ 171
Dry Swales	9	\$ 4,400	\$ 51,000	\$ 73
Bioretention (Rain Gardens)	27	\$ 7,400	\$ 65,500	\$ 87
Pervious Pavement	27	\$ 25,500	\$ 238,800	\$ 325



Streams and Water Quality Improvements

Design

- 37 projects
(TPE \$141 M)
- 12 proposed for
FY20 (\$33M)



Crook Branch
Providence District

Construction

- 15 projects
(TPE \$39M)
- 16 proposed for
FY20 (\$49M)



Pohick Tributary
Springfield District

Partnerships

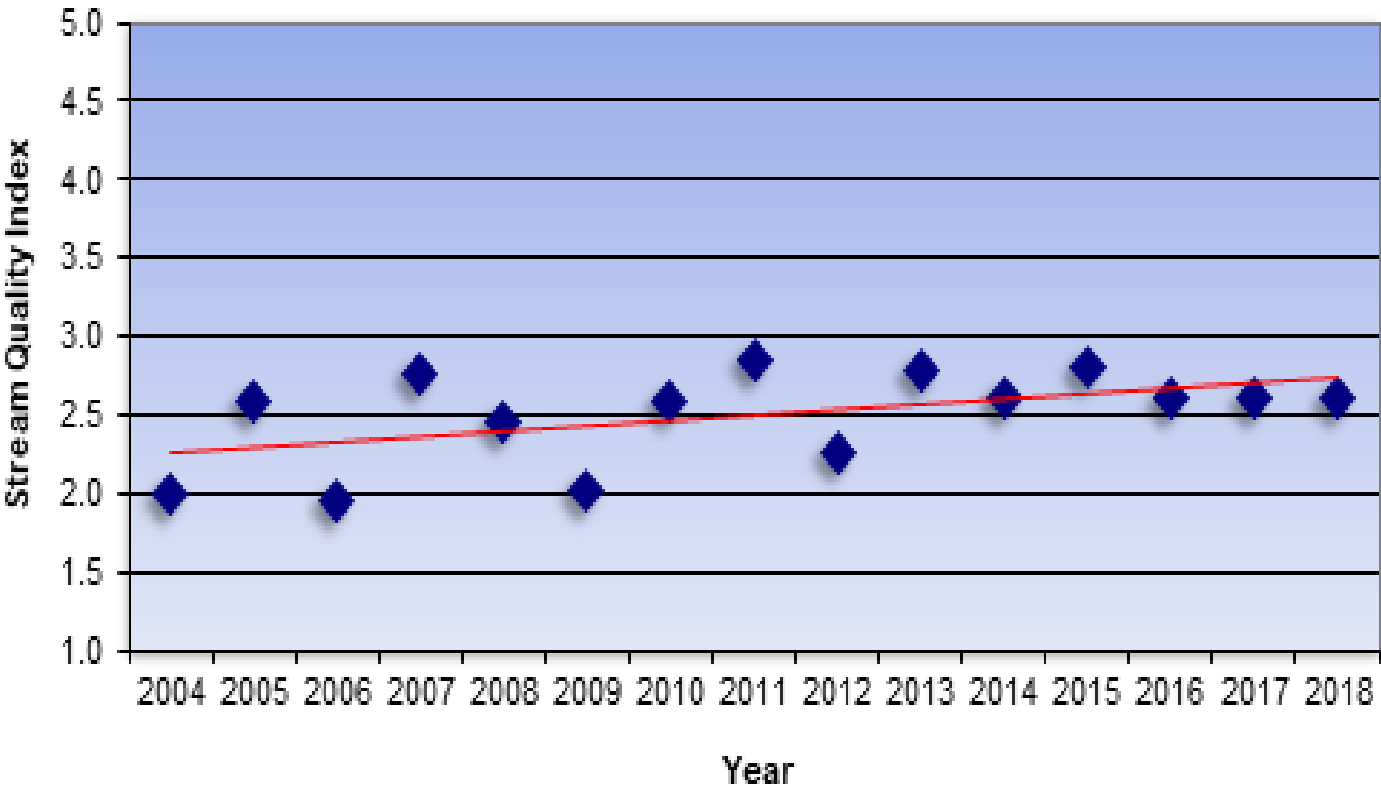
- 24 projects
- 13 proposed for
construction in FY20



Public Safety Headquarters
Braddock District

Stream Quality Index

Fairfax Countywide Annual SQI



Piney Run at Lake Werowance
Dranesville District



Looking Forward



- Negotiation of new MS4 permit
- Bay Model update and load reallocations
- Increasing local TMDLs
- Urban stream standards
- Advancements in the field
- Changing environment

Additional Information

For additional information, please contact

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