

Arlington County Municipal Separate Storm Sewer System Permit No. VA0088579



MS4 Annual Report for Permit Year 1 (July 1, 2021 – June 30, 2022)
2021-2026 Permit Cycle
Submitted September 29, 2022 (Revised March 16, 2023)



ARLINGTON
VIRGINIA

INTRODUCTION

This Municipal Separate Storm Sewer System (MS4) Annual Report has been prepared by the Arlington County Department of Environmental Services as required by Virginia Stormwater Management Program (VSMP) Permit VA0088579, issued on July 1, 2021 by the Virginia Department of Environmental Quality. This new format incorporates the County's MS4 Program Plan. The last column, "Annual Report Permit Year 1 – FY22 (2021-2022)," provides the pertinent information for each section for permit year 1 (July 1, 2021 – June 30, 2022).

Appendices provide additional information as necessary. Appendices for the MS4 Program Plan are listed by letters. Appendices corresponding to the MS4 Annual Report are listed by AR (Annual Report) and number.

For additional and detailed information about Arlington County' stormwater management program, please visit the County's website:

<https://www.arlingtonva.us/Government/Programs/Sustainability-and-Environment/Stormwater>.

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Program Highlights for Permit Year 1 (2021-2022) are summarized below.

Post Construction Stormwater Management Facilities	
Total number of private stormwater management (SWM) facilities inspected	2467
Public SWM facilities inspected	151
New SWM facilities constructed	621
Development and Redevelopment	
Number of regulated land disturbing activities approved	279
Infrastructure Inspection	
Total linear feet of storm sewers inspected	63,166
Number of catch basins cleaned	1,093
Linear feet of sanitary sewer inspected	370,001
Retrofits and Trees	
Number of retrofit projects completed during the reporting year	3
Total number of trees planted and/or distributed	1,768
Street Sweeping	
Total lane miles swept	8,914
Monitoring	
<i>Bacteria Monitoring</i>	
Number of samples collected at 21 sites	251
<i>Biological Stream Monitoring</i>	
Number of monitoring events at 10 sites	30
<i>Floatables</i>	
Number of pieces of trash collected	5,049
Pollution Response and Prevention Activities	
Number of illicit discharges investigations	121
<i>Household hazardous materials program</i>	
Total number of pounds of material collected at E-Care Events	593,977
<i>Nutrient management</i>	
Acres with turf and landscape nutrient management plans implemented	46.35
Outreach, Education, and Training	
Number of employee training sessions / participants	15 / 717
Number of public presentations, workshops, events	56
Estimated number of individuals reached	2732

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				Permit Year								
				1	2	3	4	5				
	PART I - AUTHORIZATION, EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS											
	A. Discharges Authorized Under This State Permit											
	A.1. Authorized Discharges											
1.A.1.a	This state permit authorizes the discharge of stormwater from all existing and new municipal separate stormwater point source discharges to surface waters from the Municipal Separate Storm Sewer System (MS4) owned or operated by the County of Arlington, Virginia.				▶	▶	▶	▶	▶			
1.A.1.b	The following discharges, whether discharged separately or commingled with municipal stormwater, are so authorized by this permit for discharge through the MS4:				▶	▶	▶	▶	▶			
1.A.1.b.1	Non-stormwater discharges and stormwater discharges associated with industrial activity (defined at 9VAC25-31-10) that are authorized by a separate Virginia Pollutant Discharge Elimination System (VPDES) permit;				▶	▶	▶	▶	▶			
1.A.1.b.2	Discharges from construction activities that are regulated under the Virginia Stormwater Management Program (VSMP) (9VAC25-870-10 et seq.) and authorized by a separate VSMP authority permit or state permit; and				▶	▶	▶	▶	▶			
1.A.1.b.3	The following non-stormwater discharges unless the State Water Control Board, or the permittee determines the discharge to be a significant source of pollutants to surface waters: a) water line flushing, managed in a manner to avoid an instream impact; b) landscape irrigation c) diverted stream flows d) rising ground waters; e) uncontaminated ground water infiltration (as defined at 40 CFR Part 35.2005(20)); f) uncontaminated pumped ground water; g) discharges from potable water sources; h) foundation drains; i) air conditioning condensation; j) irrigation water; k) springs; l) water from crawl space pumps; m) footing drains; n) lawn watering; o) individual residential car washing; p) flows from riparian habitats and wetlands; q) dechlorinated swimming pool discharges; r) street wash water;				▶	▶	▶	▶	▶			

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	<ul style="list-style-type: none"> s) discharges or flows from emergency firefighting activities; t) discharges or flows of potable water used in firefighting training activities managed in a manner to avoid an instream impact; u) other activities generating discharges identified by the Department as not requiring VPDES authorization; and, v) discharges from non-commercial fundraising car washes using only biodegradable, phosphate-free, water-based cleaners. 																		
1.A.1.b.4	Materials from a spill are not authorized unless the discharge of material resulting from a spill is necessary to prevent loss of life, personal injury, or severe property damage. The permittee shall take, or require the responsible party to take, all reasonable steps to minimize or prevent any adverse effect on human health or the environment in accordance with the permittee's program under Part I.B.6 (Spill Prevention and Response). This permit does not transfer liability for a spill itself from the party(ies) responsible for the spill to the permittee nor relieve the party(ies) responsible for a spill from the reporting requirements of 40 CFR Part 117 and 40 CFR Part 302. The permittee is responsible for any reporting requirement listed under Part II.G of this permit.						▶	▶	▶	▶	▶								
1.A.2. Permittee Responsibilities																			
	The permittee shall develop, implement, and enforce a MS4 program designed to reduce the discharge of pollutants from the large MS4 to the maximum extent practicable (MEP) in accordance with this permit, to protect water quality, and to satisfy the appropriate water quality requirements of the State Water Control Law and its attendant regulations. The permittee shall utilize the legal authority provided by the laws and regulations of the Commonwealth of Virginia to control discharges to and from the MS4. This legal authority may be a combination of statute, ordinance, permit, policy, specific contract language, order, or inter-jurisdictional agreements. The MS4 program shall include the program requirements described in Part I of this permit. For the purposes of this permit term, implementation of MS4 program requirements in Part I and the Chesapeake Bay and local TMDL requirements in Part I.E (as applicable) consistent with the provisions of an iterative MS4 program required pursuant to this individual permit constitutes compliance with the standard of reducing	DES/OSEM	Roles and responsible agencies are listed in this Program Plan under the "Responsible Party" column.										▶	▶	▶	▶	▶	Each annual report shall include a current list of roles and responsibilities.	See Appendix AR1 - List of County Acronyms Roles and responsible agencies for each task are specified in this Report in the "Responsible Party" column.

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	<p>pollutants to the maximum extent practicable, provides adequate progress in meeting water quality standards, and satisfies the appropriate water quality requirements of the State Water Control Law and its attendant regulations.</p> <p>This state permit establishes the specific requirements applicable to the permittee for the term of this permit. The permittee is responsible for compliance with this permit. The permittee shall implement and update the MS4 program plan (as set forth in Part I.B) to ensure compliance with this permit. The Department has determined that implementation of the MS4 program plan, consistent with the conditions in this permit, reduces the discharge of pollutants to the maximum extent practicable. Where wasteloads have been allocated for pollutant(s) of concern in an approved Total Maximum Daily Load (TMDL), the permittee shall implement the TMDL program requirements as set forth in Part I.E of this permit. Compliance with the requirements of this permit shall also constitute adequate progress for this permit term towards complying with the assumptions and requirements of the applicable TMDL wasteload allocations such that the discharge does not cause or contribute to violation of the water quality standards.</p> <p>The permittee shall clearly define the roles and responsibilities of each of the permittee’s departments, divisions or subdivisions in maintaining permit compliance. If the permittee relies on another party to implement portions of the MS4 program plan, both parties shall document the agreement in writing. The agreement shall be retained by the permittee with the MS4 program plan. Roles and responsibilities shall be updated as necessary. Where the permittee relies on another party to implement a portion of this permit, responsibility for compliance with this permit shall remain with the permittee.</p>											
	1.A.3. Legal Authority											
1.A.3	The permittee shall maintain and utilize its legal authority authorized by the Commonwealth of Virginia to control discharges to and from the MS4 in the manner established by the specific requirements of this permit. The legal authority shall enable the permittee to:											

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1.A.3.a	Control the contribution of pollutants to the MS4;	DES/OSEM	The Stormwater Management Ordinance (Chapter 60), Erosion and Sediment Control Ordinance (Chapter 57), Utilities Ordinance (Chapter 26), Fire Prevention Code (Chapter 8), Plumbing Code (Chapter 18), and Trash, Recycling, and Care of Premises Ordinance (Chapter 10) provide the authority to control pollutant discharges to the MS4.	▶	▶	▶	▶	▶			See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column	
1.A.3.b	Prohibit illicit discharges to the MS4;	DES/OSEM	The Stormwater Management Ordinance (Chapter 60), Erosion and Sediment Control Ordinance (Chapter 57), Utilities Ordinance (Chapter 26), Fire Prevention Code (Chapter 8), Plumbing Code (Chapter 18), and Trash, Recycling, and Care of Premises Ordinance (Chapter 10) provide the authority to prohibit illicit discharges and connections, as well as illegal dumping. Arlington County Code Chapter 26, section 26.7 B and C prohibits discharges to the storm drain system that may cause an adverse effect on the storm drain system or surface waters.	▶	▶	▶	▶	▶			See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column	
1.A.3.c	Control the dumping or improper disposal of materials other than stormwater (e.g., industrial and commercial wastes, trash, used motor vehicle fluids, leaf litter, grass clippings, domestic animal wastes, etc.) into the MS4;	DES/OSEM DES/SWB DES/WSS ACFD DPR	The Stormwater Management Ordinance (Chapter 60), Erosion and Sediment Control Ordinance (Chapter 57), Utilities Ordinance (Chapter 26), Fire Prevention Code (Chapter 8), Plumbing Code (Chapter 18), and Trash, Recycling, and Care of Premises Ordinance (Chapter 10) provide the authority to control improper disposal of materials other than stormwater into the MS4.	▶	▶	▶	▶	▶			See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column	
1.A.3.d	Require compliance with conditions in ordinances, permits, contracts, inter-jurisdictional agreements, or orders; and	DES/OSEM DES/ENG DES/DSB DES/SWB CPHD/ISD DPR	The County has the authority to require compliance related to implementing the permit requirements, including but not limited to: Conditions in County Code (including permits and orders issued under ordinances): The County has authority as authorized by state law and as stated in local ordinances, including options for escalating enforcement steps as appropriate in the County's exercise of its enforcement	▶	▶	▶	▶	▶			See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column	

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			<p>discretion as the regulator of covered third party activities. Local enforcement authority includes:</p> <ul style="list-style-type: none"> Stormwater Management Ordinance (Chapter 60): see § 60-17. Enforcement, Violations and Penalties. Erosion and Sediment Control Ordinance (Chapter 57): see § 57-11. Penalties, Injunctions, and Other Legal Actions. Utilities Ordinance (Chapter 26): see § 26-7. Storm Sewer System and § 26-10. Penalty Plumbing Code (Chapter 18): § 18-4. Administration and Enforcement. Fire Prevention Code (Chapter 8) <p>Arlington County Code</p> <p><u>Contracts and inter-jurisdictional agreements:</u> To the extent authorized by state law, the County has authority to enter into and carry out contracts and, in event of breach of any contract by a counterparty, to enforce such contracts according to the provisions thereof and by legal action for breach of contract at the County's discretion.</p>									
1.A.3.e	Carry out all inspections, surveillance and monitoring procedures necessary to determine compliance and noncompliance with permit conditions including the prohibition on illicit discharges to MS4	DES/OSEM DES/WSS DES/DSG ACFD	<p>The County has authority to conduct inspections/monitoring etc. related to implementing the permit requirements, including but not limited to:</p> <ul style="list-style-type: none"> Stormwater Management Ordinance (Chapter 60): § 60-14. Monitoring and Inspections. Erosion and Sediment Control Ordinance (Chapter 57): § 57-9. Monitoring, Reports, and Inspections. Utilities Ordinance (Chapter 26): § 26-7.C. Storm Sewer System Fire Prevention Code (Chapter 8): § 8.1-9. Investigation. 	▶	▶	▶	▶	▶			See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column	

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1.A.4. MS4 Program Resources											
1.A.4	The permittee shall submit to the Department a copy of each fiscal year's budget including its proposed capital and operation and maintenance expenditures necessary to accomplish the activities required by this permit. The permittee shall describe its method of funding the stormwater program with the copy of the fiscal year budget.	DES/OSEM	The County will provide the required budget information and documentation describing how the stormwater management program will be funded each FY as part of its Annual Report.	▶	▶	▶	▶	▶	A copy of the fiscal year's budget including its proposed capital and operation and maintenance expenditures necessary to accomplish the activities required by this state permit shall be submitted with each annual report.	FY-2022-Adopted-Budget CIP in FY 2021 Adopted FY 2023-2032 Capital Improvement Plan	
1.A.5. Permit Maintenance Fees											
1.A.5	Permit maintenance fees shall be paid in accordance with Part XIII of the Virginia Stormwater Permitting Program regulations (4 VAC 50-60-700 et seq.).	DES/OSEM	Permit maintenance fees will be paid as required.	▶	▶	▶	▶	▶	A statement regarding payment of the applicable MS4 permit maintenance fee, including check date and check number shall be included with each annual report.	The 2021 annual permit maintenance fee was paid via check (#1952842) on August 31, 2021.	
1.A.6. MS4 Program Plan											
1.A.6	<p>The permittee shall maintain and implement an MS4 program plan accurately documenting the MS4 Program including all additions, changes and modifications. The MS4 program plan shall contain either by inclusion or reference all documents, activities, and procedures used in order to meet the requirements of this permit. Documents may be incorporated by reference provided the latest revision date is included in the MS4 program plan and all documents are available upon request. Specific reference shall be made to any ordinance more stringent than the Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq.) and VSMP regulations (9VAC25-870 et seq.), the Virginia Erosion and Sediment Control Law (§ 62.1-44:15:51 et. seq.) and Regulations (9VAC25-840 et seq.) and the Chesapeake Bay Preservation Act (§ 62.1-44.15:67 et seq.) and Chesapeake Bay Preservation Area Designation and Management Regulations (9VAC25-830 et seq.).</p> <p>The permittee shall submit the updated MS4 program plan that meets the requirements of this permit no later than twelve (12) months after the effective date of this permit. If there are other permit conditions related to the MS4 program plan that have a later specified due date (i.e. 24 months per Part I.B.8.a).6) and Part I.B.8.c).2)) the plan shall be updated accordingly at that time and the most up-to-date version of the MS4 program plan shall be posted on the permittee's website within 30 days of updating the MS4 program plan.</p> <p>The most recent MS4 program plan shall be posted on the permittee's website. Until such time that the MS4 program plan is updated in accordance with Part I.A.7 of</p>	DES/OSEM	<p>This document is Arlington County's updated MS4 Program Plan, which has been developed to document the County's MS4 Program as it exists at the end of the 1st year of this permit cycle.</p> <p>The MS4 Program Plan is on the County's website. The updated plan will be posted on the County's website after submitting to VA DEQ with the first Annual Report.</p> <p>The County reserves full discretion to modify this plan in accordance with applicable laws (including Virginia Code Titles 15.2 and 62.1), applicable regulations, and the terms of this Permit.</p> <p>After submission to DEQ with the County's first annual report and DEQ approval, the MS4 Program Plan will be posted to the County's website.</p>	▶	▶	▶	▶	<p>Each annual report shall include a webpage address to the permittee's MS4 program and stormwater website.</p> <p>No later than 12 months after the permit effective date, the permittee shall submit to the Department the stormwater management project planning summary as described in Part I.A.6 above. The summary shall include a prioritized list of the identified projects for consideration of implementation.</p> <p>Each annual report shall include an updated stormwater management project summary sheet for which implementation or construction occurred during the reporting year.</p> <p>Each annual report shall include a current web link to the stormwater management project status page(s).</p>	<p>AC MS4 Webpage</p> <p>The list of prioritized projects that was submitted with the MS4 Permit Program Plan in June 2022 can be found in Appendix AR2. An updated status list of identified retrofit projects is provided in Appendix AR5.</p> <p>For a list of all completed retrofits see Appendix AR3 SWMF Retrofits Completed FY18-FY22.</p> <p>Please see the Project pages on the County's website</p>		

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	and participation requirements established in this permit are followed, and (iii) that the updates are documented in the annual report described in Part I.F of this report.											
1.A.7.b	<p>MS4 Program Modifications: Any modifications to the MS4 program that are not consistent with the requirements of this permit will require modification of the permit. Replacing, or eliminating without replacement, any ineffective or infeasible strategies, policies, and Best Management Practices (BMPs) specifically identified in this permit with alternate strategies, policies and BMPs may be requested at any time. Such requests shall include the following:</p> <ol style="list-style-type: none"> 1) An analysis of how and / or why the BMPs, strategies or policies are ineffective or infeasible including information on whether the BMPs, strategies, or policies are cost prohibitive; 2) Expectations on the effectiveness of the replacement BMPs, strategies or policies; 3) An analysis of how the replacement BMPs are expected to achieve the goals of the BMPs to be replaced; 4) A schedule for implementing the replacement BMPs, strategies and policies; and 5) An analysis of how the replacement strategies and policies are expected to improve the permittee’s ability to meet the goals of the strategies and policies being replaced 											
1.A.7.b	<p>MS4 Program Updates Requested by the Department: In a manner and following procedures in accordance with the Virginia Administrative Processes Act, the VSMP regulations and other applicable State laws, statutes and regulations, the Department may request changes to the MS4 Program to assure compliance with the statutory requirements of the Virginia Stormwater Management Act and associated regulations and to:</p> <ol style="list-style-type: none"> 1) Address impacts on receiving water quality caused by discharges from the MS4; 2) Include more stringent requirements necessary to comply with new State or Federal statutory or regulatory requirements; or 											

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	<p>3) Include such other conditions necessary to comply with State or Federal statutory or regulatory requirements:</p> <p>Proposed changes requested by the Department shall be made in writing and set forth the basis for and objective of the modification as well as the proposed time schedule for the permittee to develop and implement the modification. The permittee may propose alternative program modifications and/or time schedules to meet the objective of the requested modification, but any such modifications are at the discretion of the Department.</p>											
<p>1.B. MS4 PROGRAM IMPLEMENTATION</p> <p>1.B.1 Construction Site Runoff and Post Construction Runoff from Areas of New Development and Development on Prior Developed Lands</p>												
1.B.1.a	<p>The permittee shall implement a local erosion and sediment control program consistent with the Virginia Erosion and Sediment Control Law § 62.1-44.15:51 of the Code of Virginia and Virginia Erosion and Sediment Control Regulations 9VAC25-840 et seq. and a stormwater management program consistent with the Virginia Stormwater Management Act § 62.1-44.15:24 of the Code of Virginia and Virginia Stormwater Management Program Regulations 9VAC25-870 et seq.</p>	DES DTD DSB	<p>Since July 1, 2005, the Development Services Bureau of DES/DTD has administered the Erosion and Sediment Control Program for Arlington County, including plan review and inspection. The Erosion and Sediment Control Ordinance (Chapter 57 of the County Code) requires an erosion and sediment control plan for clearing and grading activities equal to or greater than 2,500 square feet of land disturbance. Erosion and sediment control inspection and enforcement activities are also tracked, along with Virginia Stormwater Management Program permit activities, using a database and reporting application.</p>	▶	▶	▶	▶	▶	<p>Each annual report shall contain the number of regulated land disturbing activities approved and the total number of acres disturbed.</p> <p>Each annual report shall contain the number of land disturbing activity inspections conducted and the number and type of each enforcement action taken.</p> <p>Each annual report shall include a list of land disturbing projects that qualify under the “Grandfathering” provision of the VSMP regulations found at 9VAC25-870-48 that receive coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities during the reporting period.</p> <p>Each annual report shall include a summary of actions taken by the permittee to implement Part I.B.1 a) and b) of this permit.</p>	<ul style="list-style-type: none"> Number of regulated land disturbing activities approved: 279 Total number of acres disturbed: 112.2 Number of Erosion and Sediment Control Inspections conducted: 2645 Enforcement Summary Notice to Comply: 24 Written Notice of Violation: 22 Stop Work Order: 3 <p>**Migration to a new permitting system on 6/25/2022. Information provided does not include sites approved or inspections completed between 6/25/2022 and 6/30/2022 due to the migration transition process.</p> <p>In FY22, County staff continued to obtain or maintain appropriate applicable state certification to conduct inspections. See Appendix AR4 for a list of current staff certifications.</p> <p>See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column</p>		
1.B.1.a.1	<p>The permittee shall require the implementation of appropriate controls to prevent non- stormwater</p>	DES/DSB DES/OSEM	<p>July 1, 2014 to present: New Chapter 60 (Stormwater Management Ordinance)</p>	▶	▶	▶	▶	▶		<p>See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column</p>		

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	discharges to the MS4, such as wastewater, concrete washout, fuels and oils, and other illicit discharges identified during land disturbing activity inspections. The discharge of non-stormwater discharges other than those identified in Part I.A.1 through the MS4 is not authorized by this state permit		effective date; requires review and approval of a Pollution Prevention (P2) Plan prior to issuance of local Land Disturbing Activities permit. No Land Disturbing permit was issued without the required notes for the implementation of appropriate controls to prevent non-stormwater discharges to the MS4. A Pollution Prevention (P2) Plan template is provided on the County's website.									
1.B.1.b	The permittee shall identify in the MS4 program plan all legal authorities for erosion and sediment control and stormwater management that are more stringent than those required under 9VAC25-840 et seq. and/or 9VAC25-870 et seq. that have been adopted in accordance with § 62.1-44.15:65 and/or § 62.1-44.15:33 of the Code of Virginia.	DES/OSEM	Currently there are no legal authorities in place that are more stringent than current state regulations.									
1.B.2 Retrofitting on Prior Developed Lands												
1.B.2	From the stormwater management project summary list required in Part I.A.6, the permittee shall complete a minimum of fifteen (15) stormwater retrofit projects including projects completed after the June 25, 2018 permit expiration and prior to the effective date of the new permit, during the administratively continued period. The stormwater retrofit projects shall be completed with a minimum of one from each of three categories: street and pond retrofits; stream restoration/shoreline improvement projects; and outfall repairs no later than the expiration of this permit term. The retrofit projects must be selected from the summary of potential stormwater management projects listed in Part 1.A.6 of this permit. Projects implemented to meet the requirements of Part I.E this permit (TMDL action plans) may be used to meet the requirements identified in this section. In addition to the fifteen (15) stormwater retrofit projects described in the previous paragraph, the permittee shall implement tree planting and replacement programs as follows:	DES/OSEM	A summary of the proposed stormwater retrofit / management projects that have been or will be completed during the time frame specified in the permit can be found in Appendix B . Each project has an information page on the County's website. The pages will be maintained as necessary throughout the implementation and following completion of the project.	▶	▶	▶	▶	▶		For retrofit projects not used to meet the TMDL requirements of Part I.E, the permittee shall submit a summary of projects implemented during the reporting period and a cumulative list of all retrofit projects completed to date. This list shall include as follows: type of land use being retrofitted; the existing stormwater management facility type before retrofit; retrofit type used; retrofit performed; completion date or anticipated completion date; total acreage retrofitted; total impervious and total pervious acreage retrofitted; location of retrofit by latitude and longitude (in decimal degrees); and SWM facility unique identifier number. Each annual report shall include a status update for those projects for which implementation began during the reporting period.	The list of the retrofit projects completed FY18-FY22 for Bay TMDL accounting can be found in Appendix AR3 . During this reporting year, two retrofit projects were completed and brought on-line. See Appendix AR5 - Status Update for Identified Retrofit Projects	

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				1	2	3	4	5			
1.B.2.a	Plant a minimum of 2,000 trees on County park land and County-owned rights-of-way no later than 60-months after the effective date of this permit.	DPR	<p>The County is currently working on developing a Forestry and Natural Resources Plan (FNRP). This plan is an update to the 2004 Urban Forest Master Plan and the 2010 Natural Resources Management Plan. The plan will collectively address the conservation, planting, and management of trees and unique ecosystems in Arlington County.</p> <p>The current Urban Forest Master Plan (UFMP) includes the following two objectives related to tree planting in County parkland and rights-of-way:</p> <ul style="list-style-type: none"> • Ensure that tree planting and preservation are important elements of our streetscape; and, • Preserve existing wooded parks and natural areas, and plant trees in parks, natural areas, and other public open spaces to improve Arlington’s overall tree canopy. <p>Staff utilize a GIS inventory of existing street trees and available planting spaces to plan and implement street tree installations each year. Areas are identified for tree planting each year in parks and County-owned open spaces. Approximately 50% of the trees planted each year are installed in parks and open spaces, and the other 50% are installed along County rights-of-ways.</p>	▶	▶	▶	▶	▶	July 1, 2026	<p>Each annual report shall provide the total number of trees planted on County parkland and County-owned rights-of-way during the reporting cycle and cumulative for the permit cycle.</p>	<p>Number of trees planted in FY22: 892</p> <p>Cumulative number of trees in permit cycle: 892</p>
1.B.2.b	Implement a program designed to distribute a minimum of 2,000 trees to private property owners during the term of this permit.	DPR EcoAction Arlington	<p>Another objective in Arlington’s UFMP is, “Encourage the preservation and planting of trees on private property”. In addition to educational outreach to residents that stresses the importance and the benefits gained from planting trees on their property, Arlington County has two programs to provide residents with trees:</p> <ul style="list-style-type: none"> • The Tree Distribution Program • The Tree Canopy Fund Grant Program <p>The County’s Tree Distribution Program is held annually each fall, in partnership with the Tree Steward volunteer organization. The program is widely advertised. Staff and</p>	▶	▶	▶	▶	▶		<p>Each annual report shall include the implementation status of planting trees on private property including the total number of trees distributed to private property owners during the reporting cycle and cumulative for the permit cycle.</p>	<p>Number of trees planted/distributed in FY22: 876</p> <p>Cumulative number of trees planted/distributed in permit cycle: 876</p>

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
			<p>Tree Steward Volunteers provide residents with tree planting and tree care advice.</p> <p>Arlington’s Tree Canopy Fund Grant Program is administered in partnership with the non-profit organization Eco Action Arlington. This program provides grants to neighborhood groups to have trees planted on private property. The program is funded mainly by private developers through tree planting contribution requirements associated with development projects. Through this program, neighborhood groups may apply for tree planting grants each spring. Grant applications are reviewed by a committee of County staff, staff from Eco Action Arlington and members of Arlington’s Urban Forestry Commission.</p>									
	The permittee shall continue to implement its programs to provide financial and/or technical assistance for the installation of small-scale practices to reduce stormwater runoff from private properties.		<p>The County will continue to promote “Stormwater at Home”. The County’s website provides information and resources for implementing / installing stormwater management practices at home. Staff also provide technical assistance to property owners regarding drainage concerns and ways to reduce runoff. The County offers webinars on rain gardens and continues to participate in the Northern Virginia Rain Barrel program. The County will continue to participate in the Green Home and Garden Tour, which showcases watershed friendly gardens and stormwater management projects on private properties in Arlington.</p>	▶	▶	▶	▶	▶		<p>Each annual report shall provide a summary of the programs for the year that provided financial and /or technical assistance to property owners to reduce stormwater runoff to include the date, the number of participants, and the type of financial and/or technical assistance provided.</p>	<p>In FY22, County staff conducted eight site visits to private properties providing technical assistance and reaching 12 individuals. The site visits occurred on: 7/8/2021, 8/17/2021, 8/25/2021, 8/26/2021, 9/24/2021, 10/6/2021, 11/30/2021, 6/17/2022.</p> <p>Arlington County continued to support the Northern Virginia Regional rain barrel program over the past year, including helping staff two rain barrel workshops. Over 4,500 rain barrels have been sold, with almost 1,300 of those rain barrels going to Arlington residents.</p> <p>Please see Appendix AR13 for additional information on these programs.</p>	
	1.B.3 Roadways											
	Operation of activities taken by the permittee, or a contractor on their behalf, to maintain or improve paved surfaces such as roadways, streets, sidewalks, and/or parking lots shall be conducted in a manner to minimize discharge of pollutants, including those pollutants contained in anti-icing or deicing compounds or abrasives used for snow and ice management.	DES/OSEM	<p>The County will continue to conduct operations associated with maintenance and repair of roads, streets, sidewalks, and parking lots in a manner to minimize pollutant discharges to the MS4 and surface waters. Training, SOPs, contract language, equipment maintenance, proper storage of materials are all part of this effort.</p>	▶	▶	▶	▶	▶				

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)								
				Permit Year																
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1.B.3.a	The permittee shall continue to implement its street cleaning program and shall clean a minimum of 30,000 lane miles during this permit cycle.	DES/SWB	<p>The County will continue its street sweeping program. A minimum of 30,000 lane miles will be swept during this permit cycle.</p> <p>Arlington’s 59 civic associations have been grouped into 14 street sweeping zones. Street sweeping occurs yearly from April-October. Citizens are asked to move their cars from their streets so that the street sweepers can provide more effective sweeping. The schedule for each FY is provided on the County’s website.</p> <p>Tonnage for each sweeping load will be collected by County staff utilizing the truck weigh scale at the Earth Products Recycling yard (EPRY). The daily sweeping mileage will be calculated using a separate odometer in the sweeper, which only records when the sweeper head is in the down position. Both tonnage and daily mileage information are tracked.</p>								<p>The permittee shall include a description of the permittee’s street cleaning program including the number of lane miles cleaned each year and the total cleaned cumulatively since permit issuance in each annual report.</p> <p>If the permittee reports pollutant removal credit for street cleaning towards the Chesapeake Bay TMDL requirements, reporting shall be submitted following the Recommendations of the Expert Panel to Define Removal Rates for Street and Storm Drain Cleaning Practices Final Report approved by the Chesapeake Bay Program, dated May 19, 2016. This includes record-keeping requirements to include as follows: actual sweeper routes and type of road; total curb miles cleaned on each route, average parking conditions; sweeper technology used (Advanced Sweeper Technologies); and number of cleaning passes per year on each qualifying route. The permittee shall maintain records of the actual miles cleaned, by date, for the entire MS4 sweeper fleet over the reporting year.</p>	<p>Arlington County’s Street Sweeping program is divided into two components.</p> <ul style="list-style-type: none"> Residential sweeping <p>Targets 59 civic associations, grouped into 14 street sweeping zones.</p> <ul style="list-style-type: none"> Commercial sweeping <p>Targets high traffic / traveled roadways within the County along with on street and protected bike lanes.</p> <p>FY22</p> <table border="1"> <thead> <tr> <th>Total Lane Miles Cleaned</th> <th>Number of Passes</th> </tr> </thead> <tbody> <tr> <td>8914.4 / 40 (PBL)</td> <td>27 / 7 (PBL)</td> </tr> </tbody> </table> <p>Cumulative for Permit Term:</p> <table border="1"> <thead> <tr> <th>Total Lane Miles Cleaned</th> <th>Number of Passes</th> </tr> </thead> <tbody> <tr> <td>8914.4 / 40 (PBL)</td> <td>27 / 7 (PBL)</td> </tr> </tbody> </table> <p>The County took CB TMDL credit for street sweeping in commercial areas in FY22. Load reduction was calculated using the calculation method in DEQ Guidance for the SCP-3 practice, type AST-1P2W with Potomac loading rates and prorating the load reduction based on the number of passes. The County uses Regenerative Air Sweepers with side brushes. The current model being used is the Schwartz A7. Information on load reductions for street sweeping can be found in Appendix G - Chesapeake Bay TMDL Action Plan.</p>	Total Lane Miles Cleaned	Number of Passes	8914.4 / 40 (PBL)	27 / 7 (PBL)	Total Lane Miles Cleaned	Number of Passes	8914.4 / 40 (PBL)	27 / 7 (PBL)
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Total Lane Miles Cleaned	Number of Passes																			
8914.4 / 40 (PBL)	27 / 7 (PBL)																			
1.B.3.b	The permittee shall continue to implement written protocols for permittee-maintained road, street, and parking lot maintenance, equipment maintenance and material storage designed to minimize pollutant discharge.	DES/OSEM DES/WSS DES/SWB DES/FMB DES/ENG DPR	The County has updated its Roadways Pollution Prevention Protocols. A copy of the updated plan can be found in Appendix C .								<p>The permittee shall include an updated version of the written protocols identified in Part I.B.3.b) if any changes are made during the reporting year.</p>	A copy of the Arlington County Stormwater Pollution Prevention Protocols for Street, Road, Sidewalk, and Parking Lot Maintenance can be found in Appendix C of the MS4 Program Plan.								
1.B.3.c	The permittee shall review their existing procedures for snow and ice management and identify within 12 months of permit issuance opportunities to implement enhanced best management practices that promote efficient management and application of anti-icing and deicing compounds.	DES/WSS DES/FMB DPR	The County has been implementing best management practice to promote efficient management and application. This includes conducting operations in several phases, training staff, calibrating equipment, using brine, and only treating roads when forecasted conditions and road surface temperatures warrant application.	June 30, 2022							<p>The permittee shall include in each annual report a summary of its snow and ice management program, including an overview of enhanced best management practices implemented and identification of any new practices incorporated during the reporting period</p>	A summary of the County’s snow and ice management program can be found in Appendix AR6 .								
1.B.3.d	The permittee shall implement protocols designed to minimize the discharge of pollutants associated with	DES/WSS DES/EB	Protocols to minimize the discharge of pollutants associated with equipment									See information provided in Program Plan Elements (July 1, 2021-June 30, 2022) column.								

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				Permit Year								
				1	2	3	4	5				
	equipment maintenance, equipment storage and storage of anti-icing and deicing compounds, abrasives and other materials. Materials utilized for deicing and sanding activities shall remain covered from precipitation until application.	DES/FMB DPR	<p>maintenance, equipment storage and storage of anti-icing and deicing compounds, abrasives and other materials are covered in the Roadways P2 Plan.</p> <p>These protocols are followed by departments, bureaus, offices, and county contractors that are involved in these types of operations.</p> <p>P2 protocols are covered / reviewed during employee P2 and Snow Operations training.</p> <p>Materials used for deicing and sanding activities are kept in covered storage facilities until application. Sand and salt are stored at two locations in the county. At the Trades Center, salt is stored in the salt storage building near the Solid Waste Bureau EPRY. The salt storage building is large enough to allow trucks to be loaded inside under cover. The building has a door that is kept closed when the building is not being accessed. Sand is stored in a nearby contained area that is covered by a tarp. Additional information about this facility, including good housekeeping can be found in the Arlington County Trades Center Stormwater Pollution Prevention Plan (SWPPP). Salt and sand are also stored at the North Side Salt Storage facility located near the intersection of Old Dominion Drive and 25th Street North. Salt is stored inside a storage structure. The opening to the building is kept closed when it is not being accessed. Sand is stored in a contained area that is covered by a tarp.</p>									
1.B.3.e	The permittee shall not apply any anti-icing or deicing compounds containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, or sidewalks.	DES/WSS DES/EB DES/FMB DPR	<p>DPR and DES do not apply deicing agents containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, or sidewalks. Parking lots, roadways and sidewalks are treated with a sand/salt mixture provided by the County.</p> <p>Entryways to DPR-managed buildings are treated with a de-icing agent containing a blend of calcium chloride, magnesium chloride and sodium chloride.</p>	▶	▶	▶	▶	▶			See information provided in Program Plan Elements (July 1, 2021-June 30, 2022) column.	

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				Permit Year								
				1	2	3	4	5				
	1.B.4 Pesticide, Herbicide, and Fertilizer Application											
1.B.4	The permittee shall continue to control the discharge of pollutants related to the storage and application of pesticides, herbicides, and fertilizers applied to permittee rights of way, parks, and other permittee property, as follows:										Each annual report shall include a list of persons responsible for the application of pesticides, herbicides, and fertilizers to include the name of the person doing the application, the certification number, and current certification date.	See Appendix AR7 - Pesticide Applicators for Arlington County
1.B.4.a	The permittee shall develop and implement nutrient management plans that have been developed by a nutrient management planner certified in accordance with 10.1-104.2 of the Code of Virginia on all lands owned or operated by the MS4 permittee where nutrients are applied to a contiguous area greater than or equal to one acre. If nutrients are applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's recommendations. The nutrient management plans shall be implemented in accordance with the following schedule:	DPR	Nutrient management plans (NMPs) have been developed for all County maintained areas where the nutrients are applied to a contiguous area greater than or equal to one acre. The County works with a turf management contractor to implement and update NMPs for County lands where nutrients are applied to a contiguous area greater than one acre. DPR currently maintains/applies nutrients to certain lands owned by Arlington Public Schools (APS). APS's MS4 program plan provides a list of APS owned lands and the status of nutrient management plan development to meet the requirements of APS's MS4 permit.									Nutrient management plans (NMPs) have been developed for all County maintained areas where the nutrients are applied to a contiguous area greater than or equal to one acre.
1.B.4.a.1	No later than 12-months after the effective date of this permit, the permittee shall identify all lands owned or operated by the permittee where nutrients are applied to a contiguous area of greater than or equal to one acre. A latitude and longitude (in decimal degrees) shall be provided for each such piece of permittee land.	DPR	County staff have identified all County lands where nutrients are applied to a contiguous area of more than one acre. A list of these areas and associated latitude and longitude is provided in the MS4 Annual Report.	June 30, 2022							Each annual report shall include a list of all permittee lands where nutrients are applied to a contiguous area greater than or equal to one acre on which nutrients are applied. The list shall also identify all properties for which nutrient management plans have been implemented. The list shall also include the date of the most recent management plan and cumulative total acreage under nutrient management plans.	See Appendix AR8 - Summary of Locations with Nutrient Management Plans
1.B.4.a.2	The permittee shall continue implementation of nutrient management plans on all permittee lands where nutrients are applied to a contiguous area of greater than or equal to one acre.	DPR	The County continues to work with a certified planner to ensure NMPs are implemented and updated every three years as required.									

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				Permit Year														
				1	2	3	4	5										
1.B.4.a.3	Any newly identified lands will be covered by nutrient management plans within six months of identification.	DPR	NMPs will be developed and implemented for any new areas where nutrients are applied to a contiguous area of one acre or more within six months of being identified.	▶	▶	▶	▶	▶		No new areas where nutrients are applied to a contiguous area of one acre, or more were identified in FY22.								
1.B.4.a.4	The permittee shall annually track the following on all lands owned or operated by the MS4 permittee where nutrients are applied to a contiguous area greater than or equal to one acre: <ul style="list-style-type: none"> a) The total acreage of permittee lands upon which nutrients are applied and controlled using general County guidelines or standard operating procedures; b) The acreage of permittee lands where nutrient management plans are required; and, c) The acreage of permittee lands covered by nutrient management plans that have been implemented. 	DPR	County staff currently track total acreage where nutrients are applied on County lands. This information will be provided in each annual report.	▶	▶	▶	▶	▶		<table border="1"> <thead> <tr> <th>Year</th> <th>Acres with Turf and Landscape Nutrient Management Plans Required</th> <th>Acres with Turf and Landscape Nutrient Management Plans Implemented</th> <th>% of Land Required to have NMPs by End of Permit that have Plans Implemented</th> </tr> </thead> <tbody> <tr> <td>FY22</td> <td>46.35</td> <td>46.35</td> <td>100</td> </tr> </tbody> </table>	Year	Acres with Turf and Landscape Nutrient Management Plans Required	Acres with Turf and Landscape Nutrient Management Plans Implemented	% of Land Required to have NMPs by End of Permit that have Plans Implemented	FY22	46.35	46.35	100
Year	Acres with Turf and Landscape Nutrient Management Plans Required	Acres with Turf and Landscape Nutrient Management Plans Implemented	% of Land Required to have NMPs by End of Permit that have Plans Implemented															
FY22	46.35	46.35	100															
1.B.4.b	The permittee shall continue to employ good housekeeping / pollution prevention measures in the application, storage, transport and disposal of pesticides, herbicides, and fertilizers	DPR DES/WSS	<p>Pesticide, herbicide, and fertilizer applications are performed by commercial applicators or registered technicians. These applicators receive yearly training and follow application instructions as directed on each product label.</p> <p>All products are stored in secured areas and kept in spill proof containers, with spill kits nearby.</p> <p>During transport, products are kept secured and in spill proof containers. Vehicles carrying pesticides and herbicides have spill kits.</p> <p>Label recommendations and applicable laws and regulations are followed to ensure proper disposal of products. Empty containers are triple rinsed and punctured before disposal. Products not utilized completely are discarded via a commercial chemical disposal company.</p>	▶	▶	▶	▶	▶		See Appendix AR9 – DPR Nursery SWPPP for additional information on good housekeeping and proper storage.								
1.B.4.c	The permittee may regulate the use, application, or storage of fertilizers pursuant to 3.2-3602 of the Code of Virginia			▶	▶	▶	▶	▶										
1.B.4.d	The permittee shall track the acreage of permittee lands managed under Integrated Pest Management Plans.	DPR	The County tracks areas managed using Integrated Pest Management (IPM) practices. DPR’s Parks and Natural Resources Division follows an Integrated	▶	▶	▶	▶	▶	Each annual report shall include the number of acres managed under Integrated Pest Management Plans.	County lands, including parks and landscaped areas, are managed using the principles of integrated pest management (IPM) where herbicides and pesticides are only applied (spot								

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				1	2	3	4	5			
			Pest Management (IPM) approach when maintaining landscape areas and controlling invasive plants. This involves monitoring areas to determine whether control actions are warranted, and if so, utilizing environmentally responsible treatment options that include mechanical and chemical alternatives to treat weeds, pests, and invasive plant infestations.							treatment) as needed in order to control invasive species or pests. Non-chemical, mechanical controls are used whenever possible to manage areas with invasive plants. In FY22, 361 acres were managed under IPM. Of the total area 11 acres are managed landscapes and 350 acres are natural lands.	
	B.5 Illicit Discharges and Improper Disposal <i>Discharges to the MS4 not authorized by this permit shall be effectively prohibited</i>										
1.B.5.a	In accordance with Part I.A.1.b), certain non-stormwater discharges to the MS4 need not be addressed as illicit discharges or improper disposal. The MS4 program plan shall identify any non-stormwater discharges listed under Part I.A.1.b), where the permittee has imposed any conditions on the discharges to the MS4. The permittee shall prohibit, on a case-by-case basis, any individual non-stormwater discharge (or class of non-stormwater discharges) otherwise allowed under this paragraph that is determined to be contributing significant amounts of pollutants to the MS4.	DES/OSEM	Where it is determined that an individual non-stormwater discharge listed in Part I.A.1.b is contributing a significant input of pollutants to the MS4, the County will take appropriate follow-up action(s) and notify the responsible party that the discharge must be ceased or altered in way that no longer contributes significant pollutant(s) to the MS4. Where necessary, enforcement measures outlined in Chapter 26 of the County Code as well as other applicable chapters of the code (Fire) may be taken to ensure corrective action is implemented and the discharge is ceased, or it is not repeated (in the case of transient discharges).	▶	▶	▶	▶	▶	Each annual report shall include a list of illicit discharges identified, the source, a description of follow-up activities and whether the illicit discharge has been eliminated.	In FY22, The County responded to over 120 pollution reports or complaints. See Appendix AR10 for a list of illicit discharges investigated in FY22. All discharges were either transient in nature and no longer occurring or the source was eliminated.	
1.B.5.b	The permittee shall continue implementing a sanitary sewer inspection program to minimize the exfiltration from the sanitary system to the MS4. The permittee shall inspect a minimum of 400,000 linear feet of sanitary sewer during this permit cycle.	DES/WSS	The County implements a sewer maintenance program that includes inspection and relining of the public sanitary sewer system in order to maintain the integrity of the system. Inspection of the County's sanitary sewer system is done by TV inspections. Maintenance and inspections are tracked in the County's asset management system, Cartegraph. A minimum of 400,000 linear feet will be inspected during this permit cycle.	▶	▶	▶	▶	▶	Each annual report shall list the linear feet of sanitary sewer inspected during the reporting year.	FY22 Linear Feet of Sanitary Sewer Inspection: 370,001 Cumulative Linear Feet over permit cycle: 370,001	
1.B.5.c	The permittee shall continue to develop and implement a program to reduce the discharge of floatables (e.g., litter and other human-generated solid refuse), including the floatables monitoring required in Part I.C.3 of this permit.	DES/SWB DES/WSS DES/OSEM EcoAction Arlington	In addition to the County's regular refuse collection and recycling programs, the discharge of human-generated solid waste to the storm sewer system and streams is addressed primarily through the street	▶	▶	▶	▶	▶	Each annual report shall include a summary of the permittee's program to reduce floatables generation at the source, including but not limited to: pollution prevention; public education; refuse and recycling collection; litter control; structural	See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column	

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				Permit Year																							
				1	2	3	4	5																			
			<p>sweeping and catch basin/storm sewer cleaning programs, as well as through outreach and education programs.</p> <p>Arlington County conducts education and outreach activities for a variety of stormwater and watershed management issues, including nonpoint source pollution, illicit discharges and pollution prevention, litter, and recycling. The County has an Adopt a Park volunteer program where residents can adopt a park or dog park and pledge to keep it clean. The County provides supplies and debris pick-up for this program.</p> <p>Arlington County continues to install stormwater retrofits throughout the County, which will help capture floatables, sediment, and other pollutants.</p> <p>Information of the floatables pilot projects is provided for Part I.C.3 in this plan.</p>							<p>pilot projects; or street sweeping programs and a summary of program effectiveness.</p> <p>See Appendix AR20 for a summary of floatable projects. See information provided in section 1.C.3.</p> <p>See Appendix AR13 for a summary of public education and participation conducted in FY22. See section 1.B.3.a for FY22 street sweeping data.</p> <p>Given human behavior and multiple sources of trash, it continues to be a challenge to reduce litter in urban environments.</p>																	
1.B.5.d	The permittee shall prohibit the dumping or disposal of used motor vehicle fluids, household hazardous wastes, sanitary sewage, grass clippings, leaf litter, and domestic animal wastes into the MS4. The permittee shall ensure the implementation of programs to collect used motor vehicle fluids (such as oil and antifreeze) and household hazardous waste materials for recycling, reuse, or proper disposal. Such programs shall be readily available to all private residents and shall be publicized and promoted on a regular basis not less than twice per year.	DES/OSEM DES/WPCB ACFD	<p>Pollution discharges to the County's MS4 and surface waters are prohibited. Arlington County Code 26-7 C states, it shall be unlawful for any person to discharge directly or indirectly into the storm sewer system or state waters, any substance likely, in the opinion of the County Manager, to have an adverse effect on the storm sewer system or state waters.</p> <p>DES/SWB and WPCP manage the County's household hazardous materials (HHM) program, which provides for the safe collection, transport and disposal of unwanted HHM material in an environmentally appropriate manner as part of a comprehensive strategy that promotes citizen awareness regarding proper handling of HHM; reduces the amount of HHM in the municipal solid waste stream, which ultimately is taken to combustors or landfills; limits the amount of HHM which is dumped down a drain and ultimately discharged to the County's</p>	▶	▶	▶	▶	▶		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Number of Resident Participants by Year</th> </tr> <tr> <th>FY22</th> <th>Cumulative Over Permit Cycle</th> </tr> </thead> <tbody> <tr> <td>HHM Facility</td> <td>8,725</td> <td>8,725</td> </tr> <tr> <td>Fall E-Care</td> <td>1,729</td> <td>1,729</td> </tr> <tr> <td>Spring E-Care</td> <td>1,681</td> <td>1,681</td> </tr> <tr> <td>Total</td> <td>12,135</td> <td>12,135</td> </tr> </tbody> </table>		Number of Resident Participants by Year		FY22	Cumulative Over Permit Cycle	HHM Facility	8,725	8,725	Fall E-Care	1,729	1,729	Spring E-Care	1,681	1,681	Total	12,135	12,135
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			Water Pollution Control Plant, or is dumped indiscriminately; and helps to reduce the risk of injuries to workers, the community, and the environment. The County hosts biannual E-CARE events where residents can safely dispose of HHM and other items.									<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Material Collection *</th> </tr> <tr> <th colspan="2"></th> <th>FY22</th> <th>Cumulative Over Permit Cycle</th> </tr> </thead> <tbody> <tr> <td rowspan="3">HHM Facility</td> <td>HHM Collected (lbs)</td> <td>268,689</td> <td>268,689</td> </tr> <tr> <td>Electronics Collected (lbs)</td> <td>84,134</td> <td>84,134</td> </tr> <tr> <td>Total Materials Collected (lbs)</td> <td>352,823</td> <td>352,823</td> </tr> <tr> <td rowspan="3">Fall E-CARE</td> <td>HHM Collected (lbs)</td> <td>78,240</td> <td>78,240</td> </tr> <tr> <td>Electronics Collected (lbs)</td> <td>24,119</td> <td>24,119</td> </tr> <tr> <td>Total Materials Collected (lbs)</td> <td>102,359</td> <td>102,359</td> </tr> <tr> <td rowspan="3">Spring E-CARE</td> <td>HHM Collected (lbs)</td> <td>109,825</td> <td>109,825</td> </tr> <tr> <td>Electronics Collected (lbs)</td> <td>28,970</td> <td>28,970</td> </tr> <tr> <td>Total Materials Collected (lbs)</td> <td>138,795</td> <td>138,795</td> </tr> <tr> <td colspan="2">Total HHM Facility (lbs)</td> <td>352,823</td> <td>352,823</td> </tr> <tr> <td colspan="2">Total E-CAREs (lbs)</td> <td>241,154</td> <td>241,154</td> </tr> <tr> <td colspan="2">Total (lbs)</td> <td>593,977</td> <td>593,977</td> </tr> </tbody> </table>			Material Collection *				FY22	Cumulative Over Permit Cycle	HHM Facility	HHM Collected (lbs)	268,689	268,689	Electronics Collected (lbs)	84,134	84,134	Total Materials Collected (lbs)	352,823	352,823	Fall E-CARE	HHM Collected (lbs)	78,240	78,240	Electronics Collected (lbs)	24,119	24,119	Total Materials Collected (lbs)	102,359	102,359	Spring E-CARE	HHM Collected (lbs)	109,825	109,825	Electronics Collected (lbs)	28,970	28,970	Total Materials Collected (lbs)	138,795	138,795	Total HHM Facility (lbs)		352,823	352,823	Total E-CAREs (lbs)		241,154	241,154	Total (lbs)		593,977	593,977
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1.B.5.e	The permittee shall continue to implement a program to locate and eliminate illicit discharges and improper disposal into the MS4. This program shall include dry	DES/OSEM	The County will continue its IDDE program, which consists of storm sewer inspections, routine inspections, complaint response	▶	▶	▶	▶	▶																																																						

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	weather screening activities to locate portions of the MS4 with suspected illicit discharges and improper disposal, as described in Part I.B.12.a) of this permit.		<p>and follow-up, volunteer bacteria monitoring and reporting, training, and education about reporting illicit discharges, public outreach, and education on preventing stormwater pollution, and dry weather screenings (see section 1.B.12.a)</p> <p>Outfalls that drain the Shirlington Commercial District and a commercial area in the western portion of the County will be screened on an annual basis. Follow-up drainage area investigations will be conducted if evidence of an illicit discharge is observed during screening.</p> <p>Sampling is also conducted during investigations of reported illicit discharges when applicable. When the source of the illicit discharge is identified, the County works with the responsible party to ensure the discharge is eliminated and/or not repeated.</p>									
1.B.5.f	The permittee shall require the elimination of illicit discharges and improper disposal practices within 30-days of discovery. Where elimination of an illicit discharge within 30-days is not possible, the permittee shall require an expeditious schedule for removal of the discharge. In the interim, the permittee shall require the operator of the illicit discharge to take all reasonable and prudent measures to minimize the discharge of pollutants to the MS4.	DES/OSEM DES/WSS ACFD	<p>When the County identifies the source of an illicit discharge and/or improper disposal practices, the responsible party is notified and required to eliminate the discharge (either immediately or within a specified time frame) and/or not repeat the practice/activity that caused the discharge.</p> <p>Enforcement action may be taken when a responsible party fails to comply with the conditions of the notification or repeats an action they already received a notification about. Notices of violation are issued to responsible parties. Enforcement provisions are provided in Section 26-10 of the Arlington County Code. If a discharge cannot be eliminated within 30 days, the responsible party shall take measures to minimize the discharge of pollutants to the MS4 until the discharge is eliminated.</p>	▶	▶	▶	▶	▶			See Appendix AR10 for a list of illicit discharges investigated in FY22. All discharges were either transient in nature and no longer occurring, or the source was eliminated.	
1.B.6 Spill Prevention and Response												

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1.B.6	The permittee shall continue to implement a program that coordinates with the Fire Department and other County departments to prevent, contain, and respond to spills that may discharge into the MS4. The spill response program may include a combination of spill response actions by the permittee (and/or another public or private entity), and legal requirements for private entities within the permittee's jurisdiction.	DES/OSEM DES/WSS DES/SWB DES/EB DES/TEO DPR ACFD ACPD	<p>The Arlington County Fire Department is the initial responder for most spills. The Hazardous Materials Team is dispatched through the County's Emergency Communications Center. The team employs practices (absorption, diking, damming) to contain spills and prevent materials from entering the storm drain system. The Fire Department Hazardous Materials Team works with the responsible parties to ensure proper clean up actions are conducted, and safety / traffic hazards are mitigated.</p> <p>Many of the Arlington County vehicles used for field operations are equipped with spill kits to handle small spills in the field. Police personnel also carry some spill response equipment in their vehicles.</p> <p>Spill kits have been installed at various locations throughout the Arlington County Trades Center and other municipal facilities. Spills kits are located at County fueling stations.</p> <p>The Spill Prevention, Control and Countermeasures Plan for the Arlington County Trades Center continues to be implemented and updated as necessary. Training on spill prevention and response is conducted for staff working at HPMF.</p> <p>Information on spills that enter the MS4 is tracked in the County's Illicit Discharge Information Tracking System database.</p>							<p>Each annual report shall include a list of spills, that qualify for immediate reporting as required under Part II.G and H of this permit, the source, (identified to the best of the permittee's ability), and a description of follow-up activities taken.</p>	<p>See Appendix AR10 for a summary of illicit discharges. Incidents that were caused by spills are categorized as "Spill" in the column "Source/Reason for Release".</p> <p>Spill report forms are filled out for spills that are greater than 5 gallons and/or that occur at County facilities or during field operations. In FY22, two spill reports were submitted. These incidents were reported to DEQ (IR# 300727, IR#301424)</p> <p>Information on spill response was provided during annual pollution prevention training.</p>	
1.7 Industrial & High-Risk Runoff												
1.7	The permittee shall implement a program to identify and control pollutants in stormwater discharges to the MS4 from industrial and high-risk runoff facilities. Facilities with individual industrial VPDES stormwater permits or coverage under the industrial stormwater general permit may be included in the program at the discretion of the permittee.	DES/OSEM ACFD ACHD	<p>Industrial facilities are defined per 40 CFR 122.26(b)(14); a VPDES industrial stormwater permitted facility; an industrial stormwater facility granted no exposure certification by DEQ; and any other facility with a "stormwater discharge associated with industrial activity."</p> <p>High-risk facilities are defined as municipal landfills; other treatment, storage, or</p>							<p>The annual report shall include a list of all known industrial and high-risk dischargers including any non-VPDES regulated industrial and commercial stormwater dischargers determined by the permittee as having the potential to contribute a significant pollutant load and that discharge to the MS4 system, a schedule of inspections and procedures for inspecting points of connection or outfalls, whichever occurs first, to the permittee's MS4.</p>	See applicable appendices for this section listed below	

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			<p>disposal facilities for municipal waste; hazardous waste treatment, storage, disposal and recovery facilities; and facilities that are subject to EPCRA Title III, Section 313.</p> <p>At this time, the only known high risk facilities in the County are the Arlington County Water Pollution Control Plant (that has a temporary storage area for household hazardous materials), Joint Base Myer – Henderson Hall, and Virginia Concrete Shirlington Plant. The WPCP and JBM-HH are subject to EPCRA Title III, Section 313 given their potential to generate and/or manage hazardous waste and release hazardous chemicals to the environment, but do not report to the Toxics Release Inventory. The WPCP has an individual municipal wastewater permit (VA0025143) and a stormwater industrial general permit (VAR051421). Inspections of the facility and outfalls are conducted as part of the SWPPP required by these permits. Virginia Concrete does report to the Toxic Release Inventory and has a concrete general permit (VAG110087) from the state.</p> <p>The County maintains a list of all known VPDES industrial stormwater general permitted facilities. Periodically, County staff contacts DEQ to verify their list of permitted facilities in Arlington County is accurate and up to date as the County is not always notified when a new VPDES permit is issued.</p>								
1.7.a	The permittee shall maintain, and update as necessary, a list of all known industrial and high-risk dischargers to the MS4.	DES/OSEM	An updated list of high-risk facilities will be provided in each annual report.	▶	▶	▶	▶	▶		The County maintains a list of permitted IHRR facilities. Appendix AR11 provides a list of these facilities.	
1.7.b	The permittee shall maintain a list of any industrial and/or commercial stormwater dischargers not permitted by the Board that it determines have the potential to contribute a significant pollutant loading to the MS4. This list may be individual discharges or categories of discharges. 1) The list shall include, but shall not be limited to, major automotive facilities such as repair shops,	DES/OSEM DES/SWB ACFD HD	The County maintains a list of industrial and commercial facilities or businesses that have the potential to contribute significant pollutant loading to the MS4 based on the type of the operations conducted at the facility, exposed outdoor material or equipment storage, and the likelihood of pollutant discharges. The list	▶	▶	▶	▶	▶	Each annual report shall report on implementation of the inspection schedule and include a list of the facilities and/or facility outfalls or points of connections to the permittee’s MS4 inspected during the reporting period.	In FY22, the County conducted inspections of outdoor areas at 146 commercial facilities as part of its IHRR or “hot spot” inspection program to assess site conditions and identify potential sources of non-stormwater discharges. Inspections focused on specific areas including outdoor areas where materials, containers, and/or equipment are stored, waste and recycling	

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	<p>body shops, auto detailers, tire repair shops and service stations.</p> <p>2) Visual inspections of exposed areas and points of connections to the MS4 or outfalls at these facilities will be conducted to identify potential sources of pollutants that could enter the MS4 and surface waters</p> <p>3) The permittee shall require control measures as necessary and/or appropriate for stormwater discharges from these dischargers to the MS4.</p>		<p>includes major automotive facilities, including repair shops, body shops, auto detailers, tire repair shops, and service stations, as well as retail strips that include restaurants and grocery stores.</p> <p>The County conducts inspections of these facilities / establishments. Inspections involve a detailed visual assessment of the property. Screening observations / parameters include cleanliness of site (general housekeeping conditions); outdoor storage / exposed materials; waste management areas. Points of connection to the County's MS4 are screened for any evidence of illicit non-stormwater discharges.</p> <p>Inspection forms and photos are used to document inspections.</p> <p>A determination of 'significant pollutant loading' will be based upon the results of these visual inspections using best professional judgment. When necessary, staff will require appropriate pollution prevention controls and conduct follow-up inspections / enforcement as needed.</p> <p>Other County inspection programs that provide information about these non-VPDES permitted industrial and commercial facilities will be incorporated into this program. Arlington County Fire Marshals conduct inspections of automotive service-related facilities (body shops, auto detailers, repair shops, tire shops, and service stations). Arlington County Health Department inspectors conduct inspections of restaurants and grocery stores. Arlington County DES SWB inspectors check recycling areas at applicable businesses. DES OSEM receives notification from these inspectors when evidence of illicit discharges or inadequate outdoor storage or housekeeping conditions are observed.</p>								<p>management areas, loading docks, fueling areas and back of house areas. Housekeeping operations at each facility and focus areas were assessed. Evidence of outside housekeeping issues or unauthorized non-stormwater discharges were documented. Issues of concern included damaged or leaking containers or tanks, staining on the ground, trash, debris on the ground around waste receptacles, overflowing waste receptacles, leaking equipment or vehicles, inadequate cover, or secondary containment, and/or exposed materials. Points of connection to the County's MS4 (indirect or direct) were also inspected.</p> <p>Follow-up notification to applicable representatives (property owners or managers) was conducted when issues were observed during inspections.</p> <p>Appendix AR12 provides a list of the commercial facilities that were inspected in FY22.</p>	

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			The County will work with facility owners, managers, or supervisors to ensure any required applicable control measures are implemented to prevent or minimize pollutant loads in stormwater discharges.								
1.7.c	The permittee may conduct monitoring, or may require the facility to conduct monitoring, of any stormwater discharges it believes may be a source of significant pollutant loadings.	DES/OSEM	This will be done if it is determined to be needed.	▶	▶	▶	▶	▶		The need for additional monitoring at IHRR facilities did not occur in FY22.	
1.7.d	The permittee shall continue to coordinate with the Department to report any non-VPDES-permitted industrial or commercial facility from which the permittee has evidence that a significant pollutant load is entering the MS4 system. Inspections of facilities for which the permittee has evidence of significant pollutant loadings may be carried out in conjunction with other permittee programs.	DES/OSEM	The County will continue to coordinate with VA DEQ and notify the agency about any unpermitted facilities that the County has evidence of significant loading / discharges from the site to the MS4 or surface waters. The County will conduct appropriate or required inspections as necessary (see information in section 1.7.b)	▶	▶	▶	▶	▶		No non-permitted facilities were identified in FY22 that required coordination with DEQ.	
1.7.e	The permittee shall refer to the Department of Environmental Quality, Northern Regional Office, for Department compliance review under the Virginia State Water Control Law any industrial or commercial facility, if the permittee becomes aware of a violation of any industrial stormwater management requirement contained in an individual or general VPDES permit issued to the facility by the Department.	DES/OSEM	The County will refer any commercial or industrial facility where it is determined that violation(s) of state issued stormwater permits are occurring to VA DEQ NRO.	▶	▶	▶	▶	▶	Each annual report shall include a list of referrals to the Department including a document listing Department coordination activity.	The County did not refer any commercial or industrial facilities to DEQ in FY22.	
1.8. Stormwater Infrastructure Management											
1.8	The permittee shall continue implementing programs to maintain the permittee's stormwater infrastructure and to update the accuracy and inventory of the storm sewer system.	DES/WSS	<p>The County's storm sewer maintenance program involves inspecting and cleaning storm drains storm mains. Data for these contracted programs, which include linear feet of sewer inspected and number of catch basins cleaned are reported in each year's annual MS4 report.</p> <p>The County's maintenance program also includes repairing damaged or failing pipes, structures, and the cleaning of blocked storm mains.</p> <p>In addition, County crews respond to citizen complaints and perform additional maintenance (other than debris removal) that is identified by contractors during regular inspections.</p>	▶	▶	▶	▶	▶	<p>Each annual report shall include a summary of activities performed in support of the inspection and maintenance program required in Part I.B.8.a). The summary shall include the total number of drainage structures operated by the permittee; the total length of conveyance that is part of the permittee's MS4; the total number of the drainage structures inspected, and the total length of conveyances inspected. In addition, the permittee shall maintain records documenting the inspection of drainage structures and conveyances to include a list of drainage structures inspected, the date inspected, the type of structures, the location, and identified maintenance needs and when the maintenance was performed as required in Part I.B.8.a).</p> <p>The permittee shall provide a summary of activities for stormwater infrastructure repair projects for catch basin, manhole, outfall, and</p>	<p>Total number of drainage structures operated by Arlington County: 21,150</p> <p>Total length LF of conveyance that is part of AC MS4 system: 1,418,445</p> <p>Total number of structures inspected FY22: 1,093</p> <p>Total number of structures inspected for permit cycle: 1,093</p> <p>Total length in LF of conveyance that was inspected in FY22: 63,166.3</p> <p>Total length in LF of conveyance that was inspected in permit cycle: 63,166.3</p>	

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			<p>Maintenance information is tracked in the County's Asset Management system (Cartegraph).</p> <p>Maintenance to keep open channels clear, and removal of vegetation along the Four Mile Run flood control project is also included in this program. In partnership with the City of Alexandria, maintenance is scheduled for FY23 to remove debris, excess sediment, and vegetation from the Four Mile Run flood control channel and re-stabilize stream banks as required by the United States Army Corps of Engineers (USACE) inspection program.</p>								<p>other structure repairs/replacement; and stormwater pipe replacement/repair projects.</p> <p>Repair activities:</p> <table border="1"> <thead> <tr> <th colspan="3">Storm Structure Maintenance / Repair</th> </tr> <tr> <th>Structure Type</th> <th>Activity Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td colspan="3">Catch Basin</td> </tr> <tr> <td></td> <td>Install</td> <td>2</td> </tr> <tr> <td></td> <td>Maintenance</td> <td>2</td> </tr> <tr> <td></td> <td>Repair</td> <td>78</td> </tr> <tr> <td></td> <td>Replace</td> <td>3</td> </tr> <tr> <td colspan="3">End Wall / End Section</td> </tr> <tr> <td></td> <td>Repair</td> <td>3</td> </tr> <tr> <td colspan="3">Grate Inlet</td> </tr> <tr> <td></td> <td>Repair</td> <td>1</td> </tr> <tr> <td colspan="3">Junction</td> </tr> <tr> <td></td> <td>Repair</td> <td>2</td> </tr> <tr> <td colspan="3">Manhole</td> </tr> <tr> <td></td> <td>Adjust</td> <td>2</td> </tr> <tr> <td></td> <td>Install</td> <td>1</td> </tr> <tr> <td></td> <td>Maintenance</td> <td>1</td> </tr> <tr> <td></td> <td>Repair</td> <td>14</td> </tr> <tr> <td colspan="3">Yard Inlet</td> </tr> <tr> <td></td> <td>Repair</td> <td>12</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Storm Mains</th> </tr> <tr> <th>Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Install</td> <td>2</td> </tr> <tr> <td>Replace</td> <td>2</td> </tr> <tr> <td>Line</td> <td>3</td> </tr> <tr> <td>Repair</td> <td>14</td> </tr> </tbody> </table>	Storm Structure Maintenance / Repair			Structure Type	Activity Type	Number	Catch Basin				Install	2		Maintenance	2		Repair	78		Replace	3	End Wall / End Section				Repair	3	Grate Inlet				Repair	1	Junction				Repair	2	Manhole				Adjust	2		Install	1		Maintenance	1		Repair	14	Yard Inlet				Repair	12	Storm Mains		Type	Number	Install	2	Replace	2	Line	3	Repair	14
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1.8.a	For stormwater management (SWM) facilities and infrastructure maintained by the permittee, the following conditions apply:																																																																																		
1.8.a.1	The permittee shall provide for adequate long-term operation and maintenance of SWM facilities owned or	DES/OSEM	The County inspects public SWM facilities (SWMFs) on an annual basis. Maintenance	▶	▶	▶	▶	▶			The County continued to implement its maintenance contract. Inspection and																																																																								

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	operated by the permittee in accordance with written inspection and maintenance procedures included in the MS4 program plan.		is conducted as needed based on inspection findings. The County maintains a contract to ensure the work is conducted. Inspection and maintenance information are tracked in Cartegraph.									maintenance reports were reviewed by County staff to ensure the work is conducted. Inspection and maintenance information were tracked in Cartegraph.
1.8.a.2	The permittee shall inspect annually all SWM facilities owned or operated by the permittee. The permittee may choose to implement an alternative schedule to inspect these SWM facilities based on a risk assessment that includes facility type and expected maintenance needs provided that the alternative schedule is included in the MS4 program plan in accordance with plan modifications as listed in Part I.A.7.a) of this permit.	DES/OSEM DPR	The County inspects public SWMFs on an annual basis. The County maintains a contract to ensure the work is conducted. Inspection and maintenance information is tracked in Cartegraph. Changes to the inspection schedule will be provided in future iterations of the program plan.	▶	▶	▶	▶	▶				FY22 number of public facilities inspections: 151** **Two facilities at Fleet Elementary were inspected in July 2022 after it was discovered that the inspections had been missed due to a personnel change.
1.8.a.3	The permittee shall conduct maintenance on SWM facilities owned or operated by the permittee as necessary.	DES/OSEM DPR	The County inspects public SWMFs on an annual basis. Maintenance is conducted as needed. The County maintains a contract to ensure the work is conducted. Work is tracked in Cartegraph.	▶	▶	▶	▶	▶				Of the 151 public facilities inspected in FY22, 144 required and received maintenance.
1.8.a.4	The permittee shall continue its catch basin cleaning program and shall inspect a minimum of 10,000 storm sewer structures including, but not limited to catch basins, drop inlets, and manholes during the term of the permit including projects completed after the June 25, 2018 permit expiration and prior to the effective date of the new permit during the administratively continued period. The permittee shall conduct maintenance, as necessary, based upon the findings during the inspection.	DES/WSS	The County will continue its catch basin inspection and cleaning program and will inspect at least 10,000 catch basins over the duration of this permit. Inspection and cleaning are typically done concurrently, and maintenance needs identified during inspection are noted and scheduled. Inspections and maintenance work are tracked in Cartegraph.	▶	▶	▶	▶	▶				Number of catch basin inspected: 1,093 Cumulative number of permit cycle: 1,093
1.B.8.a.5	The permittee shall continue its stormwater system inspection program. The permittee shall inspect a minimum of 500,000 linear feet of the MS4 system including pipes, culverts and open conveyances during the term of this permit including projects completed after the June 25, 2018, permit expiration and prior to the effective date of the new permit during the administratively continued period. The stormwater system includes outfalls or points of interconnection and conveyances.	DES/WSS	As part of its storm system maintenance program, the County will inspect a minimum of 500,000 linear feet of its MS4, which includes pipes, culverts, and open conveyances by the end date of this permit.	▶	▶	▶	▶	▶				See information provided in section 1.8 above.
1.B.8.a.6	Within 24 months of the permit effective date, the permittee shall develop and implement a comprehensive risk-based prioritization inspection plan to include MS4 permittee owned facilities and infrastructure and submit a copy of the inspection plan to the Department. The permittee may prioritize inspection locations based on as follows: age of stormwater infrastructure; type; location; land use; maintenance history and other criteria as determined by	DES/WSS DES/OSEM	The County will develop and implement a risk-based prioritization inspection plan for County SWMFs and other stormwater infrastructure. The plan will be included as an appendix in future iterations of this program plan. The County started a new stormwater infrastructure maintenance contract in July	▶	▶	▶	▶	▶				See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column

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				Permit Year								
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	the permittee. Re-occurring problems, illicit discharges, illegal dumping, citizen complaints can also be used as criteria. The criteria used to prioritize the inspections shall be documented in the MS4 program plan and updated as necessary.		<p>2021. The County has started shifting from a quad map-based approach inspection program to a risk-based priority inspection program. The County along with its contractors have begun implementing a ranking system to evaluate stormwater pipes and are developing a protocol to rank other stormwater infrastructure. The information from this ranking and evaluation effort will allow the County to develop a more efficient risk-based inspection program. Prioritization of areas for inspection will be based on pipe material (corrugated metal pipe (CMP), terra cotta), age of pipes, critical drainage areas with flooding concerns, areas with a history of complaints (blockages, sinkholes), safety concerns, and areas where infrastructure work and projects have been scheduled. Maps will be developed to direct staff and contractors where to focus inspections.</p> <p>In a parallel effort, the County is developing an alternative inspection schedule for County owned SWMFs using a risk-based assessment focused on the type of facility and anticipated maintenance needs as outlined in section 1.8.a.2.</p> <p>All information will be captured in the County's asset management system, Cartegraph.</p>									
1.B.8.a.7	The permittee shall inspect a minimum of 85,000 linear feet of the piped stormwater system using CCTV over the course of the permit term;	DES/WSS	<p>The County's storm sewer maintenance program involves inspecting storm mains. Most of this work is conducted by contractors. Inspections are done using CCTV. Information and videos are provided to the County. Video recordings are analyzed to identify maintenance needs such as blockages, cracks, dislodged pipe joints, and other issues. Inspections are also analyzed for any potential illicit connections.</p> <p>The County also uses TV inspection to check storm drain infrastructure. The</p>	▶	▶	▶	▶	▶				In FY22, the County inspected and cleaned 53,936 linear feet of its piped stormwater system using CCTV.

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date	Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year							
				1	2	3	4	5			
			County currently owns two TV inspection trucks, which include a remote-control carriage-mounted video camera that can be inserted into a manhole or storm drain and dispatched up a main. Videos are analyzed to identify maintenance issues and potential illicit connections or inputs to the system.								
1.8.a.8	Visual inspections may be used to satisfy the inspection requirements Part I.B.8.a.4) and 5) above. The permittee may prioritize inspection locations based on the following criteria: age of stormwater infrastructure; type; location, land use; maintenance problems; re-occurring problems; illicit discharges; illegal dumping; citizen complaints; and other criteria as determined by the permittee. The criteria used to prioritize the inspections shall be documented in the MS4 program plan and updated as necessary.	DES/WSS DES/OSEM	Inspection locations are prioritized based on criteria listed in the County’s comprehensive risk-based prioritization inspection plan. The inspection plan will be included as an appendix in future iterations of the program plan.	▶	▶	▶	▶	▶			
1.B.8.a.9	The permittee shall obtain any required state or federal permit(s) necessary to complete maintenance activities.	DES/WSS	The County will obtain any required permits necessary to conduct maintenance and/or repair work.	▶	▶	▶	▶	▶			
1.B.8.a.10	The permittee shall dispose of all wastes and wastewaters collected during stormwater system cleaning in accordance with local, state, and federal laws and regulations.	DES/WSS	Wash water generated during flushing / cleaning of the storm drain system is captured and collected. The County or its contractors dispose of all collected waste and wastewaters properly.	▶	▶	▶	▶	▶			
1.B.8.a.11	The permittee shall continue using their project development and prioritization processes to evaluate the feasibility of including maintenance of associated outfall structures in future stream restoration, or any other stormwater infrastructure project undertaken by the County.	DES/WSS DES/OSEM	The County continues to assess the feasibility of including maintenance, repair, and replacement of existing outfalls that occur within or near stream resiliency and stormwater retrofit project locations. The County has done this with the Windy Run and Donaldson Run Tributary B resiliency projects. It is anticipated that this will be done with the Gulf Branch resiliency project.	▶	▶	▶	▶	▶	Report the number of outfall structures evaluated for inclusion into future projects and report the number of outfall maintenance activities that resulted from the evaluations.	<p>In FY22, a total of six outfall structures were evaluated for inclusion into future projects. Four that discharge to Gulf Branch and two that discharge to “Grandma’s Creek”).</p> <p>Three of the outfalls to Gulf Branch were evaluated as part of the Gulf Branch stream resiliency project and other future projects.</p> <p>No outfall maintenance activities occurred in FY22 from these evaluations. The Grandma’s Creek outfalls need of repair and are “in the queue” behind other existing projects.</p> <p>In FY22, the County completed the following outfall maintenance / repair projects:</p> <ul style="list-style-type: none"> - 4121 N Randolph Street project: public stormwater drainage improvements included replacing 65 linear feet of 15- 	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
												<p>inch storm pipe, two manholes, and an end wall.</p> <ul style="list-style-type: none"> - 4427 25th Street Aka Woodrow Project: Public stormwater drainage improvement work included: the replacement of 20 linear feet of 18- inch storm pipe and one end wall. <p>Three additional outfall maintenance / repair projects are in various stages of design and are anticipated in be completed in 2023.</p>
1.B.8.b	For SWM facilities not maintained by the permittee and that discharge into the MS4, the following conditions apply:											
1.B.8.b.1	The permittee shall continue to implement a program to ensure proper maintenance of each privately maintained SWM facility that discharges into the MS4 system as documented in the MS4 program plan.	DES/OSEM	<p>The County requires maintenance agreements for SWMFs on individual residential lots.</p> <p>Private SWMFs are required to be inspected as described in 1.B.8.b.1.b and 1.B.8.b.1.c and maintained as needed.</p> <p>Information on how to and who can conduct inspections is provided on the County's website. The link to the website and online form are provided in letters sent to property owners.</p> <p>Maintenance is required based on the findings of the inspections. Maintenance guidance, including information fact sheets, videos, and list of maintenance contractors is provided online.</p>							<p>Each annual report shall provide a summary of actions taken by the permittee to address failure of privately maintained SWM facilities owners to abide by maintenance agreements.</p> <p>Each annual report shall include a summary of activities including inspections performed and notifications of needed maintenance and repair of stormwater facilities not operated by the permittee as required by Part I.B.8.b).</p>	<p>In FY22, 2625 notifications were sent to owners of privately owned SWMFs.</p> <p>There were 204 facilities where the required maintenance specified in the notification letter was not completed. The County is currently working with property owners and County contractors (at owner's expense) to get required maintenance completed.</p>	
1.B.8.b.1.a	Beginning with the effective date of this permit and in accordance with 9VAC25-870-112 B., maintenance agreements may be used but are not required for stormwater control measures that are designed to treat stormwater runoff solely from the individual residential lot on which they are located. Should the permittee choose a strategy other than a maintenance agreement, such a strategy shall be provided in writing no later than 12 months after the effective date of this permit and shall include periodic inspections, homeowner outreach and education, or other methods targeted at promoting the long term maintenance of such facilities.	DES/OSEM	Arlington County requires maintenance agreements for stormwater management facilities on individual residential lots.	June 30, 2022								

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date	Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
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				1	2	3	4	5			
1.B.8.b.1.b	For privately maintained SWM facilities that are not on individual residential lots and for which maintenance agreements have been established between the permittee and the owner, the permittee shall: <ol style="list-style-type: none"> 1) send notice to facility owners reminding them of their inspection and maintenance requirements under their recorded agreements; 2) Inspect all privately maintained SWM facilities no less than once per permit cycle and conduct follow up activities to ensure the required maintenance has been completed. Inspections may be conducted by the permittee or their designee as defined in 9VAC25-870-114; and 	DES/OSEM	<p>The County will send owners of private SWMFs that are not on individual residential lots that are installed during the previous fiscal year (i.e., the reporting year for each annual report) annual notifications informing the owner that inspection and maintenance of their facilities are needed, with a link to inspection forms and guidance material. http://bit.ly/Arl_inspectionforms</p> <p>The owner will be given approximately 90 days to submit the inspection documentation and perform any required maintenance. Inspection reports along with at least 2 photographs of each facility will be submitted to Arlington County for review.</p> <p>Once per permit cycle, the owner will be required to submit an inspection report performed in accordance with 9VAC25-870-11.</p> <p>Failure to submit the inspection report performed in accordance with 9VAC25-870-11 will result in an inspection by the County or its representative.</p> <p>Failure to perform required maintenance identified in the inspection report performed in accordance with 9VAC25-870-11 will result in maintenance action by the County or its representative.</p>							<p>The type and number of inspections completed annually.</p>	<p>In FY22:</p> <ul style="list-style-type: none"> • 2467 private SWMFs were inspected. • 91 violation inspections were conducted • 48 inspections of randomly selected SWMFs were conducted
1.B.8.b.1.c	For privately maintained SWM facilities that are located on individual residential lots, and for which maintenance agreements have been established between the permittee and the owner, the permittee shall: <ol style="list-style-type: none"> 1. send notice to privately owned SWM facility owners reminding them of their inspection and maintenance requirements under their recorded agreements; 2. inspect at least once during this permit cycle all SWM facilities where the owner has failed at least twice to submit an inspection report 	DES/OSEM	<p>The County has divided privately owned SWMFs into two groups based on the fiscal year the facility was constructed (even or odd years). These facilities will be required to submit inspection reports biennially. Reminder letters will be sent annually with the inspection requirement for that year.</p> <p>The owner will be given approximately 90 days to perform the self-inspection and any required maintenance. Self-inspection reports along with at least 2 photographs</p>							<p>See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column.</p>	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date					Annual Timeline	Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)	
				Permit Year								
				1	2	3	4	5				
	<p>according to the required frequency based on SWM facility type;</p> <p>3. inspect in the fourth year of this permit, a random subset of 10 percent of those SWM facilities whose owners have submitted an inspection report and where the facility types and location need onsite verification, in the judgement of the permittee, that the facility is functioning as designed;</p> <p>4. document the facility types and associated inspection reporting frequencies covered by this provision in the MS4 program plan; and conduct follow up activities to ensure the required maintenance has been completed</p>		<p>of each facility will be submitted to Arlington County for review.</p> <p>If an owner fails to submit a complete inspection report in the required inspection year, the County or its representative will conduct an inspection of the SWMF.</p> <p>Inspections of a randomly selected subset of 10% of SWMFs whose owners have submitted an inspection report and where the facility types and location need onsite verification will be conducted by the County or its representative. The SWMFs to be inspected will include a random 10% of infiltration trenches and micro-bioretenment facilities at a minimum.</p>									
1.B.8.c	The permittee shall update and maintain an accurate MS4 map and information table as follows:											
1.B.8.c.1	<p>A map of the storm sewer system owned or operated by the permittee that includes, at a minimum:</p> <p>a) MS4 outfalls discharging to surface waters, except as follows: In cases where the outfall is located outside of the MS4 permittee's legal responsibility, the permittee may elect to map the known points of interconnection upstream and downstream of the actual outfall; and</p> <p>I. In cases where the outfall is located outside of the MS4 permittee's legal responsibility, the permittee may elect to map the known points of interconnection upstream and downstream of the actual outfall; and</p> <p>II. In cases where the MS4 outfall discharges to receiving water channelized underground, the permittee may elect to map the point downstream at which the receiving water emerges above ground as an outfall discharge location. If there are multiple outfalls discharging to an underground channelized receiving water, the map shall identify that the outfall discharge location represents more than one outfall. This is an option a permittee may choose to use</p>	DES/OSEM DES/GIS	<p>The County maintains a map of its MS4 in its GIS geodatabase.</p> <p>Outfalls will be identified in accordance with MS4 Outfall Identification Standard Operating Procedure provided in Appendix D.</p> <p><i>Tracking procedures:</i> <i>Unique Structure ID</i> A unique structure ID is assigned to each structure in the Arlington County Storm Sewer Infrastructure Inventory during the mapping process in the GIS.</p> <p><i>Local Watersheds</i> Arlington County Local watersheds will be identified using a spatial join between a subset of the storm junction structures layer identified as outfalls and the Arlington County watershed layer. Arlington County local watersheds are listed in the table below.</p> <table border="1"> <thead> <tr> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>ARLINGTON BRANCH</td> </tr> </tbody> </table>	DESCRIPTION	ARLINGTON BRANCH						<p>The MS4 service area map including outfalls and information included in Part I.B.8.c) shall be submitted no later than 24 months after the effective date of this state permit. The information shall be submitted as an electronic file as a geodatabase.</p>	Information will be submitted with FY23 MS4 Annual Report.
DESCRIPTION												
ARLINGTON BRANCH												

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
	<p>recognizing the difficulties in accessing outfalls to underground channelized stream conveyances for purposes of mapping, screening or monitoring.</p> <p>b) A unique identifier for each mapped item including outfall or point of interconnection; conveyances and stormwater management facilities operated by the permittee required in Part I.B.8.c);</p> <p>c) The name and location of receiving waters to which the MS4 outfall or point of interconnection discharges;</p> <p>d) MS4 regulated service area;</p> <p>e) pipe and open channel conveyances that are upstream of MS4 outfalls; and</p> <p>f) stormwater management facilities owned or operated by the permittee.</p>		<p>ARLINGTON FOREST BRANCH</p> <p>BAILEY'S BRANCH</p> <p>CEMETERY/PENTAGON</p> <p>COLONIAL VILLAGE BRANCH</p> <p>CROSSMAN RUN</p> <p>DOCTOR'S BRANCH</p> <p>DONALDSON RUN</p> <p>FAIRLINGTON/BRADLEE</p> <p>FOUR MILE RUN, LOWER MAINSTEM</p> <p>FOUR MILE RUN, MIDDLE MAINSTEM</p> <p>GULF BRANCH</p> <p>LITTLE PIMMIT RUN, E. BRANCH</p> <p>LITTLE PIMMIT RUN, MAINSTEM</p> <p>LITTLE PIMMIT RUN, W. BRANCH</p> <p>LOWER LONG BRANCH</p> <p>LUBBER RUN</p> <p>LUCKY RUN</p> <p>NATIONAL AIRPORT</p> <p>NAUCK BRANCH</p> <p>PALISADES</p> <p>PIMMIT RUN</p> <p>PIMMIT RUN TRIBUTARY</p> <p>RIXEY BRANCH</p> <p>ROACHES RUN</p> <p>ROCKY RUN</p> <p>ROSSLYN</p> <p>SPOUT RUN</p> <p>STOHMAN'S RUN</p> <p>TORREYSON RUN</p> <p>UPPER LONG BRANCH</p> <p>VIRGINIA HIGHLANDS</p> <p>WESTOVER BRANCH</p> <p>WINDY RUN</p> <p>FOUR MILE RUN, UPPER MAINSTEM1</p> <p>FOUR MILE RUN, UPPER MAINSTEM2</p> <p><i>Sixth Order HUC</i> Sixth order HUC will be identified using a spatial join between a subset of the storm junction structures layer identified as outfalls and the HUC 6 layer. Sixth order HUC basins within Arlington County are listed below: PL23, PL24, PL25, PL26</p>									

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
			<p><i>Receiving Waters</i> Receiving waters will be identified using a spatial join between a subset of the storm junction structures layer identified as outfalls and the Receiving Water layer. Receiving waters within Arlington County are listed below:</p> <ul style="list-style-type: none"> • Four Mile Run • Potomac River <p><i>Latitude and Longitude</i> Latitude and longitude in degrees, minutes and seconds for each outfall will be determined by the GIS mapping on the storm junction structures layer. Please note that Arlington’s GIS is a graphical representation of the storm sewer system. Mapping is created using a combination of design drawing, field sketches and as-built drawing. Graphics are created using heads up digitizing. Surveying is not included in the mapping process.</p> <p><i>New Outfalls</i> New outfalls will be identified during the mapping process in accordance with MS4 Outfall Identification Standard Operating Procedure provided in Appendix D.</p>									
1.B.8.c.2	The permittee shall update its MS4 service area map as necessary if any changes to direct drainage to VDOT’s MS4 service area occur. Maintain a map to assist with coordination of VDOT MS4 coverage areas for roadways and streets. The permittee map shall clearly delineate gap areas that drain by sheet flow to VDOT MS4 areas not included as part of the Arlington MS4 service area. This information shall be maintained and kept up to date and made available when requested.	DES/OSEM DES/GIS	The County continues to maintain its MS4 service area map and makes updates as necessary when changes occur. At this time, there are no gaps areas as the County has included those areas in its MS4 service area. The County provides GIS data to VDOT.	▶	▶	▶	▶	▶			See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column.	
1.B.8.c.3	Within 24 months of the permit effective date, the permittee shall maintain an information table associated with the storm sewer system map that includes the following information for each outfall or point of interconnection identified in Part I.B.8.c.1).(a): a) A unique identifier as specified on the storm sewer system map; b) The latitude and longitude (in decimal degrees) of the outfall, or point of interconnection; c) The estimated regulated acreage draining to the outfall, or point of interconnection;	DES/OSEM DES/GIS	The estimated regulated acreage draining to the outfall or point of interconnections shall be determined using GIS features classes. The latitude, longitude, receiving water, 6 th Order HUC, receiving water impairment, predominant land use and the name of any EPA approved TMDL’s will be recorded in the GIS data.	▶	June 30, 2023	▶	▶	▶			Information will be submitted with the FY23 MS4 Annual Report.	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
	<ul style="list-style-type: none"> d) The name of the receiving water; e) The 6th Order Hydrologic Unit Code of the receiving water; f) An indication as to whether the receiving water is listed as impaired in the Virginia 2020 305(b)/303(d) Water Quality Assessment Integrated Report; g) The predominant land use for each outfall discharging to an impaired water; and h) The name of any EPA approved TMDLs for which the permittee is assigned a wasteload allocation. 											
1.B.8.c.4	No later than 24 months after the effective date of this permit, the permittee shall submit to DEQ a GIS-compatible geodatabase file of the permittee's MS4 map as described in Part I.B.8.c).	DES/OSEM	The County will provide DEQ with the most current geodatabase file of its MS4 map by the end of the second permit year.	▶	June 30, 2023							Information will be submitted with the FY23 MS4 Annual Report.
1.B.8.c.5	No later than October 1 of each year, the permittee shall update the storm sewer system map and outfall table to include any changes or additions made during the preceding reporting period.	DES/OSEM	The County continuously updates its storm drain system map and outfall table as changes or additions are made, and field verification and as-built information is obtained.	▶	▶	▶	▶	▶				In FY22, the County updated its storm drain system map and outfall table as changes or additions were made, and field verification and as-built information was obtained.
1.B.8.c.6	The permittee shall provide written notification within 30 days to any downstream adjacent MS4 of any known physical interconnection established or discovered after the effective date of this permit.	DES/OSEM	The County provided written notification to all known downstream, physically connected, adjacent MS4s. Letters were sent to representatives via electronic mail on July 21, 2021. Downstream connected MS4s include Arlington Cemetery, Arlington Public Schools, George Washington Memorial Parkway, Fairfax County, and Virginia Department of Transportation (VDOT)		July 30, 2021	▶	▶	▶	▶			The County provided written notification to representatives for all known downstream, physically connected, adjacent MS4s. Letters were sent via electronic mail on July 21, 2021.
1.B.9 County Facilities												
1.B.9	Facilities owned or operated by the permittee shall be operated and maintained as follows:											
1.B.9.a	Good Housekeeping											
1.B.9.a.1	The discharge of permittee vehicle wash water into the MS4 at permittee facilities without authorization from a separate VPDES permit shall be prohibited	All Departments	<p>Vehicle washing is conducted at the Vehicle Wash building, which is connected to the sanitary sewer system, commercial car washes, or wash water is collected and sent to the sanitary sewer.</p> <p>County employees are informed that discharges from vehicle washing are prohibited from going to the MS4. This information is conveyed during pollution prevention training.</p>	▶	▶	▶	▶	▶				<p>Discharges from vehicle washing are contained and sent to the sanitary sewer system.</p> <p>Vacuum trucks and other BMPs are used to contain, collect, and prevent wash water from entering the storm drain system.</p>

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
1.B.9.a.2	The discharge of wastewater into the MS4 at permittee facilities without authorization by a separate VPDES permit shall be prohibited.	All Departments	County employees are informed that wastewater cannot be discharged to the MS4. This information is conveyed during pollution prevention training and during inspections.	▶	▶	▶	▶	▶			See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column.	
1.B.9.a.3	The dumping of collected yard waste and grass clippings into the MS4 shall be prohibited.	All Departments	Applicable County employees receive annual training, which includes information on proper disposal practices and unauthorized dumping of yard waste and grass clippings into the MS4. Yard waste is brought to the SWB EPRY and made into mulch for reuse at County properties.	▶	▶	▶	▶	▶			See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column.	
1.B.9.a.4	Fluids leaked from municipal vehicles shall be prevented to the maximum extent practicable from entering the MS4. Leaked fluids shall be cleaned up and disposed of properly, as soon as possible but no later than 24-hours after discovery.	All Departments	County employees are instructed to report and address vehicle leaks upon discovery. Spill kits are located throughout the Trades Center, at fueling stations, and other County facilities to address small leaks and spills. Spill pallets or pans are placed under equipment and vehicles that are not used throughout the year, such as snowplows, spreaders, and leaf trucks. Stormwater pollution prevention and spill response training is conducted for employees at HPMFs. Information is also provided in the SWPPPs for HPMFs.	▶	▶	▶	▶	▶			In FY22, Stormwater pollution prevention and spill response training was conducted for employees at HPMFs.	
1.B.9.a.5	The permittee shall maintain markings on all stormwater inlets located on high priority municipal facilities, as defined at Part I.G, and on permittee properties with greater than 2-acres of impervious surface.	All Departments	Storm drain markers have been placed on storm drains at HPMFs and County properties with greater than two acres of impervious surfaces. Markers are checked during inspections and replaced as needed.	▶	▶	▶	▶	▶			Storm drain markers are checked during facility inspections. Markers are replaced as needed.	
1.B.9.b	High Priority Municipal Facilities											
1.B.9.b.1	The permittee shall continue to implement the stormwater pollution prevention plans for the Arlington County Trades Center and all existing high priority municipal facilities.	DES/OSEM DES/WSS DES/EB DES/SWB DES/TEO DES/TR DPR	Stormwater pollution prevention plans for the Trades Center and other HPMF continue to be implemented. Plans are updated as needed. In addition to the Trades Center, other HPMFs include:	▶	▶	▶	▶	▶			SWPPPs for all existing HPMF were updated and continued to be implemented in FY22. Facility inspections were conducted quarterly at the Trades Center (July 2021, October 2021, January 2022, and April 2022). Quarterly inspections were conducted at the DPR Nursery.	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
		ACFD ACPD	<ul style="list-style-type: none"> North Side Salt Storage Facility 26th St N Leaf / Mulch Storage and Distribution Center Department of Parks and Recreation Nursery Quincy Park Recycling Center ART Bus Light Maintenance Facility ART Bus Storage Area 								Inspections were conducted at the N Side Salt Facility monthly from November 2021 to March 2022. Inspections at other facilities were conducted annually.	
1.B.9.b.2	Within six months of permit effective date, the permittee shall evaluate and update as necessary the list of high priority municipal facilities that do not require a separate VPDES industrial stormwater permit. Any new facility brought online after that date shall be added to the list within 30 days of commencing operations.	DES/OSEM	The County has evaluated the list of existing HPMFs that do not require a VPDES industrial permit. No new facilities have been identified or brought online. Any applicable new facilities brought online after January 2022 will be added to the list.	January 1, 2022		▶	▶	▶	▶		No new HPMFs were identified or brought online in FY22.	
1.B.9.b.3	<p>Within 12 months of permit coverage, the operator shall identify which of the municipal high-priority facilities have a high potential of discharging pollutants. Municipal high-priority facilities that have a high potential for discharging pollutants are those facilities identified in subsection Part I.B.9.b.2) above and Part I.G of this permit that are not covered under a separate VPDES permit and which any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt or runoff:</p> <ol style="list-style-type: none"> Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater; Materials or residuals on the ground or in stormwater inlets from spills or leaks; Material handling equipment (except adequately maintained vehicles); Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt); Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants); Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers; 	DES/OSEM	<p>The following County HPMF have been identified as having a high potential of discharging pollutants:</p> <ul style="list-style-type: none"> Arlington County Trades Center 26th St N Leaf / Mulch Storage and Distribution Center North Side Salt Storage Facility DPR Nursery <p>These facilities meet some of the criteria specified in 1.B.9.b.3. This information is included in each respective SWPPP.</p>	June 30, 2022		▶	▶	▶	▶		See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column.	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
	<ul style="list-style-type: none"> g) Waste material except waste in covered, non-leaking containers (e.g., dumpsters); h) Application or disposal of process wastewater (unless otherwise permitted); or Particulate matter or visible deposits of residuals from roof stacks, vents or both not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater runoff.											
1.B.9.b.4	For each existing high-priority municipal facility identified under Part I.B.9.b.2) and 3) requiring an update, the permittee shall update and continue to implement the facilities' individual stormwater pollution plans within six months of facility change. For each new high-priority municipal facility identified under Part I.B.9.b.3), develop and implement an individual stormwater pollution prevention plan within six months of commencing operation at the facility. Stormwater pollution prevention plans (SWPPP) shall include: <ul style="list-style-type: none"> a) A site description that includes a site map identifying all outfalls, direction of flows, existing source controls and receiving water bodies; b) A discussion and list of potential pollutants and pollutant sources; c) A discussion of all potential non-stormwater discharges; d) A maintenance schedule for all existing BMPs; e) All policies and procedures implemented at the facility to ensure source reduction; f) An inspection schedule and checklist to ensure that all source reductions are continually implemented and all source controls are appropriately maintained. The date of each inspection and associated findings and follow-up shall be logged in each SWPPP; g) Appropriate training as required in Part I.B.2.11; h) Procedures to conduct dry weather screening; and, i) All modifications made as the result of any release or spill. 	DES/OSEM DES/WSS DES/SWB DES/FE DES/FE/FMB DES/TEO DES/TR DPR ACFD ACPD	The County will continue to implement SWPPPs for each high priority municipal facility identified as required in section 1.B.9.b.2. The SWPPPs will include the information (items a-i) listed in section 1.B.9.b.4. The SWPPPs will be reviewed and updated as necessary.									All HPMF SWPPPs were updated in FY22 and include the information outlined in 1.B.9.b.4 a-i.
1.B.9.b.5	A copy of each SWPPP shall be kept at each high-priority municipal facility and be kept updated.	DES/OSEM DES/WSS DES/SWB DES/TR	SWPPPs will be kept at all HPMFs except for the N Quincy Street Recycling Area and the 26 th St N Leaf / Mulch Storage and Distribution Center. All SWPPPs are available to staff on shared directories.									All HPMF SWPPPs were updated in FY22 and are available to pertinent staff.


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1.B.10	Public Education / Participation											
	The permittee shall continue to implement a public education program with the goal of increasing the stormwater knowledge of target audiences and changing behavior to result in pollutant reductions. The permittee may fulfill all or part of the requirements of this permit through regional outreach programs involving two or more MS4 localities.	DES/OSEM	The County will continue to implement its education and outreach program. The goal of the program is to increase awareness of stormwater pollution and educate the community about actions that can reduce pollution discharges to the MS4 and surface waters.								Each annual report shall include a list of permittee public outreach and education activities and the estimated number of individuals reached through the activities. An evaluation of program effectiveness, as outlined in the MS4 program plan with recommendations for future changes shall also be included.	Arlington County conducts education and outreach activities for a comprehensive variety of stormwater and watershed management issues, including nonpoint source pollution, illicit discharges and pollution prevention, household hazardous waste, litter, and recycling, stream buffer and stream restoration, and water quality monitoring. Some activities are conducted annually, and others vary each year. These programs range from volunteer stream cleanup events, storm drain marking, and school and civic group presentations to web-based information and multi-media outreach efforts (including the Northern Virginia regional education campaign). Stormwater and watershed-related public education activities are conducted primarily by Arlington County Department of Environmental Services and Department of Parks and Recreation staff, with a variety of collaborative efforts undertaken with other Northern Virginia jurisdictions, such as EcoAction Arlington, Northern Virginia Regional Commission, Northern Virginia Soil and Water Conservation District, and other organizations See Appendix AR13 - Public Education and Participation FY22 for an overall summary.
1.B.10.a	The permittee shall identify, schedule, implement, evaluate and modify, as necessary, public outreach activities designed to meet the following public education and outreach goals:	DES/OSEM										
1.B.10.a.1	Promote, publicize, and facilitate public reporting of the presence of illicit discharges or improper disposal of materials into the MS4;	DES/OSEM	The County's " Report Stream Pollution " webpage provides information on how to report illicit discharges as well as images of example pollution incidences. This webpage assists the public with identifying what different types of stream pollution look like. Wallet cards detailing how to report stream pollution are provided to stream monitors. The message "Report Stream Pollution, Spills, or Illegal Dumping 703-558-2222" is posted on numerous websites and outreach materials.									The County continues to promote its " Report Stream Pollution " webpage, which provides information on how to report illicit discharges. This webpage assists the public with identifying what different types of stream pollution look like.

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				Permit Year																			
				1	2	3	4	5															
			Residents can also report stream pollution or illegal dumping via the County’s Service Request or Report a Problem webpage . There is a request type for reporting “Stream Pollution or Dumping In Storm Drains.” A message prompt shows up and provides additional information on who to call for active incidents and provides information / direction to the “Report Stream Pollution” website. Reports are routed to the appropriate department / division for follow-up.																				
1.B.10.a.2	<p>The permittee shall identify no less than three high-priority stormwater issues to meet the goal of educating the public. High-priority issues may include the following examples: Chesapeake Bay nutrients, pet wastes, local receiving water impairments, TMDLs, high-quality receiving waters, and illicit discharges from commercial sites. The permittee shall use four or more of the strategies listed in Table 1 below per year to communicate to the public the high-priority stormwater issues identified including how to reduce stormwater pollution;</p> <table border="1"> <thead> <tr> <th colspan="2">Strategies for Public Education and Outreach (Table 1)</th> </tr> <tr> <th>Strategies</th> <th>Examples (provided as examples and are not meant to be all inclusive or limiting)</th> </tr> </thead> <tbody> <tr> <td>Traditional written materials</td> <td>Informational brochures, newsletters, fact sheets, utility bill inserts, or recreational guides for targeted groups of citizens</td> </tr> <tr> <td>Alternative materials</td> <td>Bumper stickers, refrigerator magnets, t-shirts, or drink koozies</td> </tr> <tr> <td>Signage</td> <td>Temporary or permanent signage in public places or facilities, vehicle signage, billboards, or storm drain stenciling</td> </tr> <tr> <td>Media Materials</td> <td>Information disseminated through electronic media,</td> </tr> </tbody> </table>	Strategies for Public Education and Outreach (Table 1)		Strategies	Examples (provided as examples and are not meant to be all inclusive or limiting)	Traditional written materials	Informational brochures, newsletters, fact sheets, utility bill inserts, or recreational guides for targeted groups of citizens	Alternative materials	Bumper stickers, refrigerator magnets, t-shirts, or drink koozies	Signage	Temporary or permanent signage in public places or facilities, vehicle signage, billboards, or storm drain stenciling	Media Materials	Information disseminated through electronic media,	DES/OSEM DPR	<p>The County’s stormwater education and outreach program focuses on a number of high-priority stormwater issues, including pet waste, Chesapeake Bay nutrients, and illicit discharges from commercial sites. Several strategies are used to convey information to the public, including traditional written materials, signs, social media, public presentations, programs, meetings, events, and training.</p> <p>There is a significant amount of information about these priority issues on the County’s website, including fact sheets, webinars, videos, and posters.</p> <p>Information is shared via social media feeds (FaceBook, Twitter). Information and articles are provided in electronic newsletters such as Inside Arlington.</p> <p>Information is provided at public events such as the County Fair, Wags for Whiskers, E-Care, and through parks programs.</p> <p>Signs are rotated at County Community Canine Areas reminding people of the importance of picking up after their pets.</p> <p>The County continues to participate in the Clean Water Partners Only Rain Campaign, which focuses on education on reducing stormwater pollutants such as pet waste, pesticides, fertilizers, auto fluids, litter, and salt.</p>								<p>See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column</p> <p>See Appendix AR13 - Public Education and Participation FY22 for a complete list of examples of strategies used by the County in FY22.</p>
Strategies for Public Education and Outreach (Table 1)																							
Strategies	Examples (provided as examples and are not meant to be all inclusive or limiting)																						
Traditional written materials	Informational brochures, newsletters, fact sheets, utility bill inserts, or recreational guides for targeted groups of citizens																						
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Media Materials	Information disseminated through electronic media,																						

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							3	4	5				
		radio, televisions, movie theater, or newspaper		Public education is also conducted through presentations at meetings and other events, programs, and training.									
	Speaking engagements	Presentations to school, church, industry, trade, special interest, or community groups											
	Curriculum materials	Materials developed for school-aged children, students at local colleges or universities, or extension classes offered to local citizens											
	Training materials	Materials developed to disseminate during workshops offered to local citizens, trade organization, or industrial officials											
1.B.10.a.3	Continue to promote individual and group involvement in local water quality improvement initiatives including the promotion of local restoration and clean-up projects, programs, groups, meetings and other opportunities for public involvement;		DES/OSEM	Individual involvement in local restoration and cleanup initiatives is promoted through the County's partnership with EcoAction Arlington . EcoAction Arlington organizes stream cleanup events, tree planting, and assists with coordination of other activities and programs such as rain barrel workshops and storm drain marking.								<p>In FY22, EcoAction Arlington sponsored three clean up events in the County.</p> <ul style="list-style-type: none"> • International Coastal Cleanup, September 18, 2021 • MLK King Day of Service, January 17, 2022 • Earth Day Cleanup, April 23, 2022 <p>Volunteer opportunities to participate in activities such as stream clean-ups, invasive plant removal tree planting, and stream monitoring are advertised and promoted during presentations to various groups and through social media and e-newsletters.</p> <p>Arlington County's Tree Distribution Program and Tree Canopy Fund Grant Program promote tree planting and restoration. The Tree Canopy Fund Grant Program is administered in partnership with the non-profit organization EcoAction Arlington. This program provides grants to neighborhood groups to have trees planted on private property.</p>	
1.B.10.a.4	Develop an outreach program for public and private golf courses located within the County which discharge to the permittee's MS4 that encourages implementation of integrated management practice (IMP) plans and techniques to reduce runoff of fertilizer and pesticides;		DES/OSEM	There are no public golf courses in Arlington County. There are two private golf courses in the County; both drain to the County's MS4. The County will conduct engagement activities with the courses to encourage implementation of IMP practices to reduce runoff of fertilizer and pesticides from their properties.								<p>In FY22, County staff reached out to the Grounds Supervisor at the two golf courses in the County (Washington Golf and Country Club and Army Navy Golf Course) to discuss what practices being used at each course to limit nutrient and fertilizer runoff. Both courses are required by state law to have NMPs.</p>	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
												An in-depth interview and conversation were had with Washington Golf and Country Club grounds manager on integrated management practice plans and techniques to reduce runoff of fertilizer and pesticides.
1.B.10.a.5	Promote and publicize the proper management and disposal of used oil and household hazardous wastes	DES/OSEM	The County's Household Hazardous Materials (HHM) program promotes, publicizes, and facilitates proper disposal of household hazardous waste. The County's HHM facility is open year-round for residents to drop off materials, and the County also organizes two large drop off events (ECARE) each year. The program is publicized through the County's webpage , Facebook, Twitter, and articles within Inside Arlington, Arlington County's citizen newsletter.	▶	▶	▶	▶	▶				In FY22, the County hosted two ECARE events: A fall event on October 9, 2021, and a spring event as part of Earth Day programs on April 23, 2022. The County continued its year-round Household Hazardous Materials (HHM) program .
1.B.10.a.6	Promote and publicize the proper disposal of pet waste and household yard waste;	DES/OSEM	The County promotes and publicizes proper pet waste disposal through information on its website , articles in newsletters, signs in community canine areas, and outreach at public events. Arlington County's ordinance "pooper-scooper law" requires Arlington dog owners to remove and dispose of feces that their dogs have deposited on public areas or another person's property. Arlington provides weekly curbside collection of yard waste to single-family homes, duplexes and some townhomes in the County. Residents can also go online and request a free brush pick-up. Information about organics waste management including leaf, Christmas tree collection, brush, and food scraps collection as well as grass cycling and composting is provided on the County's website.	▶	▶	▶	▶	▶				See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column The County continued to participate in the Clean Water Partners Only Rain Campaign, which focuses on education on reducing stormwater pollutants such as pet waste. The County continues to post and rotate signs in Dog Parks about picking up after pets.
1.B.10.a.7	Promote and publicize the use of the county's litter prevention program	DES/OSEM	Arlington County provides weekly curbside trash and recycling collection services to all single-family homes, duplexes, and some townhomes. Each residence is provided a recycling bin to encourage participation in	▶	▶	▶	▶	▶				The County distributed quarterly brochures on proper recycling, organics and trash disposal, and Recycling Made Simple Bilingual Brochure



MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date	Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
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				1	2	3	4	5			
			the program. The recycling program is promoted at the County’s annual fair, through the website , with articles in the County’s Inside Arlington email newsletter, through brochures, mailings and cart hangers, and through the recycling opportunities offered through the ECARE events.								The County’s Trash and Recycling website and Rethinking Recycling video educate the public on proper disposal of trash and recycling. See Appendix AR13 - Public Education and Participation FY22 for additional information.
1.B.10.a.8	Promote and publicize methods for residential car washing that minimize water quality impacts;	DES/OSEM	The County provides information on residential car washing through its website , articles in electronic newsletters, social media posts, and at public engagement events.	▶	▶	▶	▶	▶			In FY22, the County updated its car washing pollution prevention webpage and posted info graphics to social media. 
1.B.10.a.9	Promote and publicize the proper use, application, and disposal of pesticides, herbicides, and fertilizers by public, commercial, and private applicators and distributors;	DES/OSEM DPR	The County provides information on the proper use, application, and disposal of pesticides, herbicides, and fertilizers on its website , articles in electronic newsletters, social media posts, and at public engagement events. The County promotes and encourages eco-friendly lawn care . The County recommends using landscaping companies that have Chesapeake Bay Landscape Professional certification and companies registered with the VA DCR as “Clean and Green” landscapers that agree to follow practices that will reduce the amount of fertilizer runoff to our streams. The County continues to participate in the Clean Water Partners, Only Rain Campaign, which focuses on education on reducing	▶	▶	▶	▶	▶			See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column. See Appendix AR13 - Public Education and Participation FY22 for additional information.

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				1	2	3	4	5			
			<p>stormwater pollutants such as pesticides and fertilizers.</p> <p>County staff who apply pesticides are licensed are trained or certified in accordance with the Virginia Pesticide Control Act (§3.2-3900 et seq. of the Code of Virginia).</p>								
1.B.10.a.10	Encourage private property owners to implement voluntary stormwater management techniques and/or retrofits including those described in Part I.B.2	DES/OSEM	<p>The County continues to encourage property owners to implement voluntary stormwater management techniques.</p> <p>County staff provide technical assistance to private property owners to implement stormwater retrofits on their property. Information, including webinars, videos, fact sheets, guides, plant lists, and other resources are provided on the County's Stormwater at Home website.</p> <p>The County continues to participate in the annual Green Home and Garden Tour which showcases watershed-friendly properties in Arlington.</p> <p>Arlington continues to work in partnership with the Northern Virginia Regional Commission and the Northern Virginia Soil and Water Conservation District to offer rain garden workshops.</p> <p>Arlington continues to participate in the Northern Virginia Rain Barrel Program, which offers reduced cost rain barrels and technical assistance to residents.</p>	▶	▶	▶	▶	▶	<p>Each annual report shall provide a summary of voluntary retrofits completed on private property</p>	<p>In FY22, County staff conducted 8 site visits to private properties and provided technical assistance. Visits reached 12 individuals. No voluntary projects were completed in FY22.</p> <p>The Green Home and Garden Tour was held on June 5, 2022.</p> <p>See Appendix AR13 for additional information on these programs.</p>	
1.B.10.a.11	Target strategies towards local groups of commercial, industrial, and institutional entities likely to have significant stormwater impacts.	DES/OSEM	<p>Arlington has created specialized outreach materials for entities likely to have stormwater impacts, such as restaurants, food trucks, pools, and other commercial establishments. These materials include pollution prevention educational materials for businesses, pollution prevention posters for restaurants, pollution prevention cards for contractors, and a brochure for pool operators on preventing water quality impacts.</p>	▶	▶	▶	▶	▶		<p>The County's Prevent Pollution website has information and educational materials for various businesses.</p> <p>See Appendix AR13 for additional information.</p>	

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				Permit Year								
				1	2	3	4	5				
1.B.10.a.12	Develop an outreach and education strategy to target private winter maintenance providers and encourages implementation of enhanced best management practices in the application and storage of anti-icing and deicing compounds and abrasives used for snow and ice management.	DES/OSEM	<p>The County is providing information through its Winter Salt Smart outreach strategy. Messaging and outreach materials provided through the Metropolitan Council of Governments is being used in addition to resources provided through the Northern Virginia Salt Management Strategy (SaMS).</p> <p>Information is provided on the County's website and being sent out via social media and electronic newsletters.</p> <p>The County follows up on reports of over application in commercial areas or improper storage of materials. Property managers and business owners are encouraged to use less de-icing products and sweep up residual materials after storm events.</p> <p>The County is working on developing a brochure to distribute to commercial property owners.</p>								<p>See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column.</p> <p>In FY22, the County started providing information through its Winter Salt Smart outreach strategy. The County updated its website to include information on best management practices (BMPs) for applying salt and other deicing products.</p> <p>Outreach was conducted in the fall and winter via social media platforms and electronic newsletters on BMPs and tips to use less salt.</p>	
1.B.10.b	The permittee shall post a copy of this permit on its web page no later than 30 days after the effective date of this permit and continue to retain a copy of the permit online for the duration of this permit.	DES/OSEM	Arlington's MS4 permit is posted on the Arlington County website and will remain on the County's website for the duration of the permit.	July 30, 2021							Arlington's MS4 permit was posted on the Arlington County website in July 2021. The permit and supporting documents will remain on the County's website for the duration of the permit.	
1.B.10.c	The permittee shall post copies of each annual report on its website no later than 30 days after the report submittal to the Department and continue to retain copies of the annual reports online for the duration of this permit.	DES/OSEM	Copies of each annual report will be posted online on the County's MS4 Permit page for the duration of the permit.								A copy of this MS4 Annual Report will be posted on the County's MS4 Permit website .	
1.B.10.d	The permittee shall post the most current MS4 program plan on its website no later than 30 days after the effective date of the permit and maintain a current copy on the website. If the MS4 program plan is modified or revised, the updated plan shall be posted within 30 days of the revision(s). Copies of the most current MS4 program plan shall be made available for public review upon request of interested parties in compliance with all applicable open records requirements.	DES/OSEM	The most current MS4 Program Plan and appendices are posted on the County's MS4 Permit website under Resources. The plan is available upon request to any interested parties.	July 30, 2021							The MS4 Program Plan was updated and submitted to DEQ in June 2022. The Program Plan 2021-2026 is currently on the County's MS4 Permit website .	
1.B.11	The permittee shall conduct stormwater training for appropriate employees. The training requirement may be fulfilled all or in part through regional training programs involving two or more MS4 localities;	DES/OSEM DES/WSS DES/SWB DES/TEO	County staff conduct stormwater training for appropriate employees. Applicable employees include Trades Center staff who work in the field on County infrastructure,							Each annual report shall include a list of training events, the date and the estimated number of individuals attending each event.	In FY22, 15 employee training events were conducted for more than 700 employees and/or personnel who report to the Trades Center and	

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				Permit Year								
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	provided, however, that the permittee shall remain individually liable for its failure to comply with the training requirements in this permit. The permittee shall determine the appropriate employees to receive the following types of training based on the specific topic for which training is to be provided:	DPR ACFD ACPD	operations, and emergency response activities and other facility maintenance staff. Training covers recognition and reporting of illicit discharges and good housekeeping and pollution prevention practices to be employed in and around county facilities and in the field.									other facilities. A list of training events is included in Appendix AR14 .
1.B.11.a	The permittee shall provide training to appropriate field personnel in the recognition and reporting of illicit discharges no less than once per 24 months.	DES/OSEM	Training on recognition and reporting of illicit discharges is conducted by County staff no less than every 2 years.	▶	▶	▶	▶	▶				Information on recognizing and reporting illicit discharges was covered in pollution prevention training conducted in FY22. See response for 1.B.11.c below.
1.B.11.b	The permittee shall provide training to appropriate employees in good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance no less than once per 24 months.	DES/OSEM DES/WSS DES/FMB	Training on good housekeeping and pollution prevention practices associated with road, street, and parking lot maintenance is conducted by County staff.	▶	▶	▶	▶	▶				Information from Arlington County's Stormwater Pollution Prevention Protocols for Street, Road, Sidewalk, and Parking Lot Maintenance was covered during annual pollution prevention training for applicable employees.
1.B.11.c	The permittee shall provide training no less than once per 12 months to appropriate employees in good housekeeping and pollution prevention practices that are to be employed at high priority municipal facilities and appropriate road maintenance employees responsible for washing and storage of equipment and application and storage of anti-icing and deicing compounds and abrasives used for snow and ice management.	DES/WSS DES/OSEM	Training on pollution prevention practices is provided to staff responsible for washing and storage of equipment and application and storage of anti-icing and deicing compounds and abrasives used for snow and ice management.	▶	▶	▶	▶	▶				In FY22, good housekeeping and pollution prevention training was conducted for employees that work at the Trades Center. These employees also conduct work at other HPMFs, including the 26th St N Leaf / Mulch Storage and Distribution Center, N Quincy St Recycling Center, North Side Salt Storage Facility, and DPR Nursery. On October 21, 2021, 65 County employees received Snow and Ice Control – Operator Training. The training covered topics about calibration, the impacts of de-icers, over application, and the importance of salt reduction. Many employees involved in snow operations also participate in annual stormwater pollution prevention training. Training covers information outlined in the SWPPPs including good housekeeping, material storage and handling, vehicle / equipment maintenance, recognizing and reporting illicit discharges, spill response, and other pollution prevention practices.
1.B.11.d	The permittee shall ensure that employees, and contractors hired by the permittee who apply pesticides and herbicides are trained or certified in accordance with the Virginia Pesticide Control Act (§3.2-3900 et seq. of the Code of Virginia). Certification by the Virginia Department of Agriculture and Consumer Services (VDACS) Pesticide and Herbicide Applicator program shall constitute compliance with this requirement.	DPR DES/WSS	The Department of Parks and Recreation ensures employees and contractors who apply pesticides and herbicides have received proper training and certification in accordance with the Virginia Pesticide Control Act. Records are kept by respective offices.	▶	▶	▶	▶	▶				See Appendix AR7 for a list of County employees that have been trained and certified in accordance with the Virginia Pesticide Control Act.
1.B.11.e	The permittee shall ensure that County employees and contractors serving as plan reviewers, inspectors,	DES/OSEM DES/DSB	Plan reviewers, inspectors, program administrators and construction site	▶	▶	▶	▶	▶				In FY22, County staff continued to obtain or maintain applicable state certification. See

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				Permit Year								
				1	2	3	4	5				
	program administrators, and construction site operators obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.		operators either have received training or are scheduled for training or have appropriate certifications. Staff needing training and certification will attend sessions and take necessary exams for certification.									Appendix AR4 of a list of current staff certifications.
1.B.11.f	The permittee shall ensure that the applicable County employees and contractors implementing the stormwater program obtain the appropriate certifications as required under the Virginia Stormwater Management Act and its attendant regulations; and	DES/OSEM DES/DSB DPR	All applicable County employees, plan reviewers, inspectors, program administrators and construction site operators have obtained or will obtain the appropriate certifications required under the Virginia Stormwater Management Act and its attendant regulations. Re-certification will be completed by applicable staff.	▶	▶	▶	▶	▶				See Appendix AR4 of a list of current staff certifications.
1.B.11.g	The permittee shall provide training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around permittee recreation facilities no less than once per 24 months.	DES/OSEM DES/FMB DPR	Applicable DPR and DES Facilities Management employees who conduct maintenance, repair, and custodial work at County recreational buildings (community and nature centers) and service park infrastructure will receive training which covers the good housekeeping and pollution prevention practices as well as recognizing and reporting illicit discharges.	▶	▶	▶	▶	▶				Training in good housekeeping and pollution prevention was provided to employees with DPR Natural Resources Division in March 2022. See Appendix AR14 for a list of trainings conducted in FY22.
1.B.11.h	Employees trained in emergency response whose duties include emergency response shall be trained in spill response. Training of emergency responders such as firefighters and law-enforcement officers on the handling of spill releases as part of a larger emergency response training shall satisfy this training requirement and be documented in the training plan. A summary of the training and/or certification program provided to emergency response employees shall be included in the annual report.	ACFD ACPD	Emergency responders, including Fire Department personnel and Police Officers receive training in spill response.								Each annual report shall include documentation of training or certification for emergency spill response	<p>The Arlington County Police Department provides Hazardous Materials/Spill Response training for all sworn officers. In FY22, 12 recruit officers took an in-person HazMat course during their training at the Northern Virginia Criminal Justice Academy. In addition, 341 officers took an on-line HazMat refresher course on PowerDMS.</p> <p>All Arlington County Fire Department emergency response personnel are trained and certified during recruit school at the Fire Training Academy to the Virginia State Hazardous Materials Operations Level. This curriculum covers spill response and includes diking, damming, and diverting techniques.</p> <p>On January 14, 2022, Recruit Class 80 graduated 25 Probationary Firefighter/EMTs that received training and certification, including the VA State Hazardous Materials Operations Level class. Recruit Class 81 currently has 27 recruits going through training; graduation is anticipated in December 2022.</p>

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				1	2	3	4	5			
										Personnel with the Arlington County Fire Department Hazardous Materials Team are certified to the Technician and Specialist Levels. Members of the Hazardous Materials Team are required to take a minimum of 24 hours of training to maintain their certification levels. In FY22, there were 55 trained team members - 32 ACFD personnel received Technician level training; 23 of those personnel received Specialist level training. Training records are kept in the ACFD's database, Target Solutions.	
1.B.11.i	The permittee shall require through the use of contract language, training, standard operating procedures, or other measures within the permittee's legal authority that contractors employed by the permittee and engaging in activities with the potential to discharge pollutants use appropriate control measures to minimize the discharge of pollutants to the MS4.	DES WSS DES ENG DES FMB	Language has been incorporated into County contracts for construction projects that references the DES Construction Standards and Specifications . Section 01500 Erosion Sediment Control and Pollution Prevention was revised in 2020 to require appropriate control measures to minimize the discharge of pollutants to the MS4. Specific language is required to be incorporated on site plans. Information is also covered during pre-construction meetings and in the field during inspections.	▶	▶	▶	▶	▶		Training was provided to County project engineers, project managers, construction managers, and construction inspectors on environmental compliance and pollution prevention for County projects. County contracts for construction projects reference the DES Construction Standards and Specifications . Section 01500 Erosion Sediment Control and Pollution Prevention requires appropriate control measures to minimize the discharge of pollutants to the MS4. This information is also covered during pre-construction meetings.	
1.B.11.j	Documentation shall be kept of all training events including the training date, number of employees attending the training, and the objective of the training event for a period of three years after each training event. Additionally, all events shall be listed in the annual report for the year in which the training event occurred.	DES OSEM ACFD ACPD	The County will keep all required training documentation for a period of three years after each training event.	▶	▶	▶	▶	▶	Additionally, all events shall be listed in the annual report for the year in which the training event occurred.	See Appendix AR14 for a list of training events that occurred in FY22.	
1.B.12	Water Quality Screening Programs										
	The following screening programs shall be implemented in addition to the monitoring required by Part I.C:										
1.B.12.a	Dry Weather Screening and Source Identification: The permittee shall continue its pollution prevention-based efforts to detect the presence of illicit connections and unauthorized discharges to the MS4. The permittee shall implement the following dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4.	DES OSEM DES WSS	The County will continue to implement pollution prevention-based programs such as dry weather screening, facilities inspections and IDDE efforts.	▶	▶	▶	▶	▶			
1.B.12 a.1	Identifying Dry Weather Flows and Sources: The permittee shall continue to implement a program of dry weather screening in areas of concern following a	DES/OSEM DES WSS	The County will continue to implement its dry weather screening program.	▶	▶	▶	▶	▶		In FY22, the County continued its storm drain infrastructure inspection and maintenance	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
	prioritized schedule of field screening activities and rationale for prioritization determined by the permittee based on such criteria as age of the infrastructure, land use, historical illegal discharges, dumping or cross connections, knowledge of prior problems, and priority areas:											program, which includes looking for signs of cross connections or other illicit flows. The County also continued inspections at County and commercial facilities.
1.B.12.a.1.a	Annual screening of a minimum of ten (10) outfalls that drain the Shirlington commercial district and the South Four Mile Run Drive industrial area. Screening methodology may be modified based on experience gained during actual field screening activities and need not conform to the protocol at 40 CFR Part 122.26(d)(1)(iv)(D). Where the sample analysis does not include analytical methods approved under 40 CFR Part 136, the permittee may use any suitable method but shall provide a description of the method used. The permittee shall review and update the “Arlington County Dry Weather Screening program: Site Selection and Screening Plan” within 12 months of the permit effective date.	DES/OSEM	<p>The County updated its Dry Weather Screening Plan in December 2021. A copy of the Arlington County Dry Weather Screening Program Plan, MS4 Permit VA0088579 (2021-2026 Permit Cycle) is provided in Appendix E.</p> <p>The revised dry weather screening plan developed for this effort includes information on the selected outfall locations, screening procedures and methodologies.</p> <p>Annual screening will be conducted at ten outfalls that drain the Shirlington commercial district and the South Four Mile Run Drive light industrial area. In addition to visual assessment of outfall conditions, the following chemical parameters will be analyzed where flow is present: <i>E. coli</i> bacteria, total chlorine, fluoride, ammonia, nitrate and nitrite, total phosphorus, detergents, specific conductivity, and pH.</p> <p>Screening results and a summary of any follow-up actions taken as a result of dry weather screening activities will be included in each annual report.</p>	June 30, 2022	▶	▶	▶	▶			<p>Each annual report shall include the total number of outfalls included as part of the permittee’s MS4, the number of outfalls screened during the reporting period as part of the dry weather screening program, a list of locations upon which dry weather screening was conducted, the results and any follow-up actions including a summary of each investigation conducted by the operator of any suspected illicit discharge. The summary shall include (i) the date that the suspected discharge was observed; (ii) how the investigation was resolved, including any follow up, and (iii) resolution of the investigation and the date the investigation was closed.</p>	<p>There are currently 703 outfalls that are owned and maintained by Arlington County.</p> <p>Of the 13 outfalls screened in FY22, eight outfalls had observed flow during the site visits. Four of the eight outfalls with flowing discharge monitored drained areas of the South Four Mile Run light industrial / commercial area; three drained areas in the Shirlington commercial area, and two drained the Arlington County Trades Center. Samples from these outfalls were tested for possible illicit discharge indicators.</p> <p>Sampling results indicated detectable levels of at least one measured parameter that has program criteria (i.e., chlorine, fluoride, ammonia, or surfactants) in all analyzed discharge water samples taken in FY22. Five of the eight sites that exhibited flowing conditions in FY22 had detectable levels of chlorine (sites 219904, 20280, 20456, 20794, and 21131); six of the eight samples had detectable levels of ammonia (sites 20280, 20456, 20619, 20794, 20992, and 21045). Results indicated detectable levels of surfactants in one of the eight samples (Outfall 20794); fluoride was not detected in any sample; these represent significant improvements in conditions, based on a comparison to the results from the tests conducted at the same outfalls in FY21.</p> <p>The sample from Outfall 20794, which drains a portion of the Trades Center detected surfactants at a concentration of 0.25 ppm, which is just at the recommended action level of 0.25 ppm. The sample did not have a high level of chlorine, which would have been expected if the discharge contained potable water. Additionally, no evidence of suds was observed at the outfall at the time of the screening. A drainage area investigation was conducted. No washing activities were observed in the drainage area at the time of the screening on 05/07/2022.</p>

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
												<p>Appendix AR15 provides a summary table of the locations, conditions, and sampling results for the thirteen outfalls that drain the Shirlington Commercial District and South Four Mile Run Drive light industrial/commercial area that were screened in FY22.</p> <p>Procedures and methodologies for dry weather screening can be found in the Arlington County Dry Weather Screening Plan in Appendix E of the MS4 Program Plan.</p>
1.B.12.a.1.b	The permittee shall continue to implement its pollution prevention program. On an annual basis, the permittee will visually inspect points of connection to the MS4 for dry weather flow or evidence of illicit discharges at a minimum of thirty-five (35) facilities determined to be potentially contributing significant sources of pollutants. Key facility areas including material storage locations, dumpsters and surrounding areas, and housekeeping operations at the facility shall be evaluated as part of a comprehensive facility inspection. Any observed dry weather flows will be evaluated. If evidence of an illicit discharge is detected, the permittee shall conduct further investigation and document the steps taken to eliminate any unauthorized non-stormwater discharges.	DES/OSEM	<p>The County will continue its pollution prevention program.</p> <p>The County will conduct comprehensive visual inspections of outdoor areas and points of connection to the County’s MS4 at thirty-five (35) facilities on an annual basis. Sites will be selected from the list of Industrial High Rick Runoff (IHRR) or hot spot facilities the County maintains. These facilities have the potential for contributing significant pollutant discharges based the types of operations that occur and outdoor storage at these facilities. Commercial facilities where issues or complaints were previous identified or reported are also included on the list. Targeted facility types include commercial operations such as major automotive facilities such as repair and body shops, auto detailing businesses, service /gas stations, and establishments such as grocery stores, warehouses, restaurants, pet grooming/ boarding service businesses, and shopping strips.</p> <p>Further investigation will be undertaken if evidence of an illicit discharge is detected during a screening inspection.</p> <p>Information on screening protocols and methodologies is provided in the County’s Dry Weather Screening Plan, Appendix E.</p> <p>A summary of any follow-up actions taken to eliminate any unauthorized non-</p>								<p>In FY22, the County conducted inspections of outdoor areas at 35 commercial facilities as part of its IHRR or “hot spot” inspection program to assess site conditions and identify potential sources of non-stormwater discharges. During the inspections, direct points of connections to the County’s storm drain system, such as onsite storm drain infrastructure, were visually inspected for presence or evidence of dry weather flow or illicit discharges. Storm drains were also checked for any evidence of illicit connections to the storm structure. Observed dry weather flows were evaluated to determine whether the flow is authorized and/or a source of pollutants. Flow was visually assessed for any indicators of pollutants such as cloudy or discolored water, foam, suds, sheen, grease, odor, algae, and/or trash. If enough water was present, chemical testing was conducted using test strips and a Hach unit.</p> <p>Of the facilities inspected and structures screened, there were two observations of unauthorized non-stormwater discharges. One was a washing discharge observed at a car dealership. The second was a leak from a dumpster at a retail strip with restaurants. Representatives for each establishment were notified about the observations and the issues have been remedied.</p> <p>Appendix AR16 provides a list of commercial facilities where dry weather screening was conducted in FY22.</p>	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
			stormwater discharges will be included in each annual report.									
1.B.12.a.2	Dry weather screening procedures shall be documented in the MS4 program plan.	DES/OSEM	See Appendix E - Arlington County Dry Weather Screening Program Plan, MS4 Permit VA0088579 (2021-2026 Permit Cycle)									Arlington County Dry Weather Screening Program Plan, MS4 Permit VA0088579 (2021-2026 Permit Cycle) is included in the MS4 Program Plan as Appendix E .
1.B.12.b	Wet Weather Monitoring Program: In addition to monitoring required in Part I.C, the permittee shall continue to implement a wet weather monitoring program to characterize the stormwater discharged to and from the MS4. Within six (6) months of the permit effective date, the permittee shall provide an updated copy of the “Arlington County Wet Weather and High Risk Screening Program: Site Selection and Screening Plan” to the Department to include the specific locations where wet weather monitoring will be conducted.	DES/OSEM	The County will continue to implement its wet weather monitoring program to characterize stormwater discharged to and from its MS4. The County updated its Wet Weather Monitoring Plan and provided a copy to DEQ in October 2021. A copy of the Arlington County Wet Weather Monitoring Program Plan, MS4 Permit VA0088579 (2021-2026 Permit Cycle) is provided in Appendix F .	December 30, 2021	▶	▶	▶	▶				The County updated its Wet Weather Monitoring Plan and provided a copy to DEQ in October 2021. A copy of the Arlington County Wet Weather Monitoring Program Plan, MS4 Permit VA0088579 (2021-2026 Permit Cycle) is provided in Appendix E of the MS4 Program Plan.
1.B.12.b.1	Two (2) stormwater outfall monitoring sites within the County shall be monitored during the term of this permit. The two outfall monitoring locations shall be selected with preference for sites meeting the following criteria: <ul style="list-style-type: none"> • Located in a drainage area with a land use that is suspected to contribute significant pollutant loads to the County’s MS4; • Located with a receiving water listed as impaired in the Virginia 2020 305(b)/303(d) Water Quality Assessment Integrated Report; • Located downstream of a Best Management Practice (BMP) to assist with evaluation of the implemented control; and • The permittee can provide a paired comparison to a drainage area with a less intensive land use provided the three criteria listed immediately above are first considered. 	DES/OSEM	Outfall 17217 and Outfall 21131 will be monitored during this permit term. Both outfalls are located in the Four Mile Run watershed and have drainage areas with land uses that are suspected to contribute significant pollutant loads to the County’s MS4 . The outfalls discharge stormwater runoff to Four Mile Run, which is listed as an impaired surface water in the Virginia Department of Environmental Quality 2020 305(b)/303(d) Water Quality Assessment Integrated Report.		▶	▶	▶	▶	▶			In FY22, wet weather was conducted at Outfalls 17217 and 21131. The outfalls selected met the preference criteria listed in 1.B.12.b.1.

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
1.B.12.b.2	The permittee shall conduct wet weather discharge monitoring for the following minimum list of constituents. With resubmittal of the Arlington County Wet Weather and High Risk Screening Program Plan, the permittee may add to the list of constituents to be tested as deemed appropriate for that outfall monitoring site and provide an updated testing list in the screening program plan. (a) E. coli (b) Nitrate and Nitrite Nitrogen (c) Total Suspended Solids (d) Chemical Oxygen Demand (e) Total Phosphorus (f) Total Kjeldahl Nitrogen (g) Zinc (h) Cadmium (i) Copper (j) Lead (k) Hardness (l) Specific Conductance (m) Temperature (n) pH		Per the County’s Wet Weather Monitoring Plan, the following water quality parameters will be analyzed: <ul style="list-style-type: none"> E. coli Nitrate and Nitrite Nitrogen Total Kjeldahl Nitrogen Total Phosphorus Total Suspended Solids Chemical Oxygen Demand Zinc Cadmium Copper Lead Hardness Specific Conductance Temperature pH 								FY22, in addition to the parameters listed in the Program Plan Elements column, floatables were also collected and analyzed as part of the screening process.	
1.B.12.b.3	Monitoring shall be conducted, at a minimum of once per calendar quarter, at least 14 days apart between July 1 and June 30 at each monitoring location using the following quarterly calendar schedule: July 1 – September 30 October 1 – December 31 January 1 – March 31 April 1 – June 30 The standard operating procedures for the wet weather monitoring program shall continue to be incorporated as part of the MS4 program plan. Any updates to monitoring locations and/or procedures during the reporting year shall be documented in the MS4 program plan and a summary provided with the applicable annual report.	DES/OSEM	Outfall monitoring will be conducted once per calendar quarter each permit year (July 1 – June 30). <ul style="list-style-type: none"> July 1 – September 30 October 1 – December 31 January 1 – March 31 April 1 – June 30 Monitoring will be conducted at least 14 days apart. Program methodologies are outlined in the Arlington County Wet Weather Monitoring Program Plan.								In FY22, wet weather screening was not conducted in the first quarter as the Wet Weather Plan and screening locations were being revised. A summary of screening results can be found in Appendix AR17 . Standard operating procedures for the wet weather monitoring program are included in the County’s Wet Weather Monitoring Program Plan, MS4 Permit VA0088579 (2021-2026 Permit Cycle); Appendix E .	
1.B.13	Infrastructure Coordination											
1.B.13	The permittee shall coordinate with the Virginia Department of Transportation (VDOT) regarding issues of MS4 physical-interconnectivity as described below:											

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
1.B.13.a	Annual Coordination Meeting – The permittee shall meet annually with VDOT for purposes of overall coordination on priority issues for the permittee’s MS4 program plan (including operations and maintenance elements) and TMDL action planning relevant to the interconnectivity of the MS4s.	DES/OSEM	The County will continue to meet with VDOT annually. The County will attend and participate in joint meetings scheduled and facilitated by the Northern Virginia Regional Commission. These meetings allow for communication and discussion between VDOT and other MS4 jurisdictions.	▶	▶	▶	▶	▶			The County attended an Annual Coordination Meeting with VDOT and Phase I MS4 jurisdictions in the Northern Virginia region on January 25, 2022. Northern Virginia Regional Commission hosted the meeting via Microsoft Teams. Agenda items included the following: <ul style="list-style-type: none"> • Mapping (MS4 Service Areas) • Chesapeake Bay TMDL Action Plan updates • Other TMDL Action Plans • Credit for TMDL Implementation • Illicit Discharge Detection & Elimination • Water Quality Monitoring 	
1.B.13.b	Mapping – The permittee shall inform VDOT of the status of its mapping program, identifying any uncertainty regarding ownership or actual location of MS4 components associated with the physically-interconnected MS4s, and working to resolve such uncertainty. The permittee shall coordinate with VDOT to identify any areas within the permittee’s municipal boundaries that drain to the VDOT MS4.	DES/OSEM	The County has provided mapping information and data to VDOT. A letter of MS4 interconnection was sent to VDOT in July 2021. The County has requested GIS data from VDOT to assist with identifying any gaps or uncertainties regarding MS4 ownership and corresponding drainage areas.	▶	▶	▶	▶	▶			Mapping information continues to be shared between the County and VDOT. In FY22, the County requested updated information from VDOT to assist with identification and evaluation of gaps or uncertainties regarding MS4 ownership and corresponding drainage areas.	
1.B.13.c	Chesapeake Bay TMDL action plans – The permittee shall inform VDOT of the means, methods, and schedule by which the permittee will implement the reductions required by the Chesapeake Bay TMDL program requirements (Part I.E.1) when those means and methods may impact the physically-interconnected MS4s. The parties are encouraged to cooperate with one another where the siting or design of best management practices (BMPs) may be accelerated or otherwise improved by mutual cooperation. The permittee shall coordinate with VDOT to identify any areas within the permittee’s municipal boundaries that drain to the VDOT MS4 and are unaccounted for in the Chesapeake Bay TMDL action plan developed by VDOT or the permittee. The unaccounted areas shall be quantified (acres) in the Chesapeake Bay TMDL action plan submitted by the permittee.	DES/OSEM	The County currently does not have any TMDL implementation projects that would impact the physically interconnected MS4s. The County has requested GIS data from VDOT to assist with identifying areas within the County’s municipal boundaries that drain to the VDOT MS4 and are unaccounted for in the County’s Chesapeake Bay TMDL action plan.	▶	▶	▶	▶	▶			In FY22, the County requested GIS data from VDOT to assist with identifying areas within the County’s municipal boundaries that drain to the VDOT MS4 and are unaccounted for in the County’s Chesapeake Bay TMDL action plan.	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
1.B.13.d	Other TMDL action plans – The permittee shall inform VDOT of TMDL action plans and actions implemented for other (i.e., non-Chesapeake Bay) TMDLs when those plans may impact the physically interconnected MS4s. The parties are encouraged to cooperate with one another where the siting or design of BMPs may be accelerated or improved by mutual cooperation.	DES/OSEM	The County currently does not have any projects or programs for local TMDLs that would impact the physically interconnected MS4s. Actions outlined in the County’s Local TMDL Action Plans for PCBs and bacteria benefit local water quality throughout the County.	▶	▶	▶	▶	▶			Actions outlined in the County’s Local TMDL Action Plans for PCBs and bacteria benefit local water quality throughout the County. These Action Plans are being updated will be advertised for public comment in Fall 2022. Final copies will be provided to DEQ per permit requirements.	
1.B.13.e	Credit for TMDL Implementation – Permit specific BMP retrofit requirements shall not be double-counted in the calculation of load reductions. If the permittee undertakes the project, the permittee shall be entitled to full credit for the project but may share credit with VDOT on mutually agreeable terms, which shall be in writing.	DES/OSEM	The County will not “double-count” any credits for projects implemented for TMDL load reductions.	▶	▶	▶	▶	▶				
1.B.13.f	Illicit Discharge Detection & Elimination –The permittee shall coordinate with VDOT on the identification of high risk industrial facilities. The permittee shall establish procedures for notifying VDOT when an illicit discharge is identified in the VDOT MS4.	DES/OSEM	The County will coordinate with VDOT on identifying high risk industrial facilities. VDOT has a maintenance facility (VDOT Arlington Primaries Area Headquarters) at 1500 Columbia Pike. The County notifies appropriate contacts at VDOT when an illicit discharge is identified in the VDOT right-of-way.	▶	▶	▶	▶	▶			There is one VDOT facility in Arlington County; the maintenance facility (VDOT Arlington Primaries Area Headquarters) on Columbia Pike. The County and VDOT communicate any illicit discharges that enter their respective MS4s. Emails are sent to VDOT staff for the Northern VA area as well staff with the Environmental Compliance Group in the Central Office, Environmental Division in Richmond.	
1.B.13.g	Water Quality Monitoring –The permittee shall make available to VDOT all monitoring data collected from areas where the physically-interconnected MS4 discharges to the VDOT MS4 or received flow from the VDOT MS4 upon request.	DES/OSEM	The County will provide VDOT with monitoring data collected from areas where the physically interconnected MS4 discharges to the VDOT MS4 or received flow from the VDOT MS4 upon request.	▶	▶	▶	▶	▶			No request for monitoring data was received from VDOT in FY22.	
1.B.13.h	Annual Reports – As part of its annual report, the permittee shall document coordination efforts with VDOT that occurred during the reporting year pursuant to requirements (a) through (g) above.	DES/OSEM	A summary of coordination efforts required in the permit will be provided in each annual report.	▶	▶	▶	▶	▶			The County participated in an annual coordination meeting with VDOT on January 25, 2022. VDOT shared they had updated their VA Open Roads data set and the data are available online. County staff discussed the need for assistance with new permits requirements related to mapping updates and analyze.	
1.C	MONITORING REQUIREMENTS											
1.C	Bacteriological Monitoring											
1.C.1.	The permittee shall perform monthly long-term bacteriological monitoring listed in Table A to evaluate the effectiveness of its efforts to reduce bacterial pollutant loadings. This program shall continue to be implemented as follows:		The County continues to implement its bacteriological monitoring program . Any updates to procedures during the reporting year shall be provided with the applicable annual report.	▶	▶	▶	▶	▶			The annual report shall include a summary of the monitoring results and analyses and an interpretation of that data. This includes a summary of any follow-up investigations that occurred.	

MS4 Action ID	Permit Requirement				Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
							Permit Year								
							1	2	3	4	5				
													Any updates to procedures during the reporting year shall be provided with the applicable annual report.		
1.C.1.a	The permittee shall use the Coliscan EasyGel method to analyze in-stream <i>E. coli</i> concentrations.				DES/OSEM	Arlington County’s protocol for <i>E. coli</i> bacteria monitoring using the Coliscan EasyGel method was codified in a VA DEQ-approved Quality Assurance Project Plan (QAPP) in February 2013. Arlington’s volunteer bacteria monitoring program will continue to operate under the QAPP for this permit. Staff will update the QAPP as necessary in the future. The most current version of the QAPP available online .								In FY22, the County continued to use the Coliscan EasyGel method to analyze in-stream <i>E. coli</i> concentrations.	
1.C.1.b	The permittee shall collect monthly samples at the following locations identified in Table A:				DES/OSEM	The County will collect monthly samples at the monitoring locations listed in 1.C.1.b. A map of monitoring stations is available on the County’s website .								See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column See Appendix AR18 – Summary of Bacteria Monitoring Program or a list of the selected watersheds and monitoring locations. Information on monitoring procedures / protocol is provided on the County’s News for Bacteria Monitors website and in the QAPP.	
	Site #	Site Group No.	General Location	Watershed Name and Location Details											
	1	FMR1	Benjamin Banneker Park, below Van Buren St.	Upper Four Mile Run											
	2	FMR2	East Falls Church Park (N. Roosevelt Street)	Upper Four Mile Run											
	3	FMR3	Bluemont Park	Upper Four Mile Run - Below conf of small trib. from I-66											
	4	FMR4	Glencarlyn Park, near N. Carlin Springs Road	Upper Four Mile Run - Above conf. of Lubber Run Tributary											
	5	FMR5	Glencarlyn Park	Upper Four Mile Run - Below conf. of Lubber Run Tributary											
	6	FMR6	Glencarlyn Park	Lower Four Mile Run - Below conf. of Upper Long Branch											

MS4 Action ID	Permit Requirement				Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
							1	2	3	4	5				
												Permit Year			
	7	FMR7	Glencarlyn Park	Lower Four Mile Run - Below conf. w/small trib. at 7 th Street											
	8	FMR8	Barcroft Park	Lower Four Mile Run - Below conf. w/ Doctor's Branch											
	9	FMR9	Shirlington Dog Park	Lower Four Mile Run - Below Walter Reed Drive and upstream of the pedestrian bridge											
	10	FMR10	Mt. Vernon Ave bridge	Lower Four Mile Run											
	11	LBR 1	Woodlawn Park	Four Mile Run Tributary - Eastern drainage, collected from the culvert on the right											
	12	LBR 2	Woodlawn Park	Four Mile Run Tributary - Western drainage, collected from the culvert on the left											
	13	LBR 3	Lubber Run Park	Four Mile Run Tributary - Upstream of the concrete pedestrian bridge upstream of the amphitheater											
	14	ULB1	Glencarlyn Park	Four Mile Run Tributary - Upper Long Branch above dog park											

MS4 Action ID	Permit Requirement				Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
							1	2	Permit Year						
									3	4	5				
	15	DB1	Alcova Heights Park	Four Mile Run Tributary - Downstream of the sewer crossing next to the playground											
	16	LLB1	Troy Park	Four Mile Run Tributary - Lower Long Branch											
	17	DR1	Zachary Taylor Park	Potomac Drainages - Above Military Rd, upstream of the confluence with Tributary B											
	18	DR2	Zachary Taylor Park	Potomac Drainages - Below Military Rd. by the wooden staircase											
	19	WR1	Windy Run Park	Potomac Drainages - Windy Run watershed, at the trail crossing with Windy Run											
	20	GB 1	Gulf Branch Park	Potomac Drainages - Gulf Branch watershed, below Military Rd.											
1.C.1.c	The permittee may rely on community volunteers to conduct bacteriological monitoring.				DES/OSEM	The <i>E. coli</i> monitoring program will continue to rely on volunteers to collect and test the water samples. Per the program's QAPP, the program has a goal of 83% data completeness. If a volunteer should miss their sample collection on the assigned monitoring date, or have an equipment or testing method failure, it will be noted on the data tracking sheet. If a volunteer misses the sampling date or has								The bacteria monitoring program had 99.6% coverage of its sites in FY22, for a total of 251 out of 252 samples. See Appendix AR18 – Summary of Bacteria Monitoring Program	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date					Annual Timeline	Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year							
				1	2	3	4	5			
			an equipment or testing method failure, the volunteer program manager will collect a sample and run the Coliscan Easygel method for that site within 14 days of the volunteer's report.								
1.C.1.d	The permittee shall analyze the data for relationships with precipitation events occurring within 72-hours of sampling) for precipitation amounts greater than ½ inch.	DES/OSEM	Arlington's annual MS4 report will include an analysis of the relationships between bacteria and precipitation events occurring within 72-hours of sampling) for precipitation amounts greater than ½ inch. The County will continue to use NOAA precipitation data from Regan National Airport (DCA) for its analyses.	▶	▶	▶	▶	▶	The annual report shall include a summary of the monitoring results.	See Appendix AR18 – Summary of Bacteria Monitoring Program for the data analysis.	
1.C.1.e	The permittee shall review the monitoring results to determine if any monitoring sites exhibit consistently, high <i>E. coli</i> levels and perform follow up investigations as necessary to identify possible sources. If follow up activities are required as part of the bacteriological procedure process, it shall be documented and provided as an update in the Arlington County MS4 annual report.	DES/OSEM	The County reviews monitoring results each month. Follow-up investigations are conducted at sites that show consistently high levels of <i>E. coli</i> to identify possible sources. Additional water quality testing may be conducted and/or drainage areas investigations. Upstream public sanitary sewer infrastructure can also be assessed for potential leaks. A summary of any follow-up actions taken will be provided in each annual report.	▶	▶	▶	▶	▶		In FY22, the County did not conduct any follow-up activities. The County continued to implement its sewer maintenance program that includes inspection and relining of the public sanitary sewer system in order to maintain the integrity of the system. For the last 25 years, the County has used cure-in-place pipe to relin sanitary sewer mains to prevent and repair cracks and leaks. Typically 2% of the sanitary pipes are relined each year. The work is prioritized based on video inspections of the pipes throughout the county, condition, area focus, and stream crossings. See section 1.B.5.b for summary of implementation in FY22.	
1.C.2	Biological Stream Monitoring										
1.C.2	The permittee shall continue its biological stream monitoring program to evaluate the health of existing streams and changes over time. This program shall continue to be implemented as follows:	DES/OSEM									
1.C.2.a	The permittee shall use a biological stream monitoring protocol based on the "US EPA's Rapid Bioassessment Protocols for Use in Streams and Wadeable Rivers" or other method approved by the Department and shall include an assessment of the benthic macroinvertebrate community and habitat assessment, pH, and temperature. The developed protocol shall be available on the permittee's website.	DES/OSEM	Arlington's biological stream monitoring protocol is based on EPA's Rapid Bioassessment Protocol 2. The latest version of the protocol is available online. In addition to sampling for aquatic macroinvertebrates, volunteers will collect temperature and pH data and conduct a habitat assessment.	▶	▶	▶	▶	▶		See Appendix AR19 for a summary of biological monitoring program and FY22 results.	
1.C.2.b	Monitoring shall be conducted a minimum of twice per year with sampling events occurring between January 1 st	DES/OSEM	Monitoring will take place twice a year at a minimum. One monitoring event will take	▶	▶	▶	▶	▶		In FY22, all 10 sites were monitored in the summer, fall, and spring.	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date					Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)																															
				Permit Year																																										
				1	2	3	4	5	1	2	3	4	5																																	
	and June 30 th and July 1 st and December 31 st at each monitoring location.		place between January 1st and June 30 th . Another monitoring event will take place between July 1st and December 31st.																																											
1.C.2.c	Monitoring shall continue at the following locations listed in Table B. <table border="1"> <thead> <tr> <th>Stream</th> <th>Land Use</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>Windy Run</td> <td>Residential</td> <td>End of Kenmore Street</td> </tr> <tr> <td>Donaldson Run</td> <td>Residential</td> <td>30th Road</td> </tr> <tr> <td>Gulf Branch</td> <td>Residential</td> <td>Military Road</td> </tr> <tr> <td>Little Pimmit Run</td> <td>Residential</td> <td>38th and Dumbarton</td> </tr> <tr> <td>Four-Mile Run-Banneker</td> <td>Residential Transitioning to Heavily Urban</td> <td>Banneker Park</td> </tr> <tr> <td>Four-Mile Run-Bluemont</td> <td>Residential Transitioning to Heavily Urban</td> <td>Bluemont Park</td> </tr> <tr> <td>Four-Mile Run-Glencarlyn</td> <td>Residential Transitioning to Heavily Urban</td> <td>Glencarlyn Park</td> </tr> <tr> <td>Four-Mile Run-Barcroft</td> <td>Residential Transitioning to Heavily Urban</td> <td>Barcroft Park</td> </tr> <tr> <td>Lubber Run</td> <td>Residential Transitioning to Heavily Urban</td> <td>Lubber Run Park</td> </tr> <tr> <td>Margaret Creek</td> <td>Reference Site</td> <td>Clifton, VA</td> </tr> </tbody> </table>	Stream	Land Use	Location	Windy Run	Residential	End of Kenmore Street	Donaldson Run	Residential	30th Road	Gulf Branch	Residential	Military Road	Little Pimmit Run	Residential	38th and Dumbarton	Four-Mile Run-Banneker	Residential Transitioning to Heavily Urban	Banneker Park	Four-Mile Run-Bluemont	Residential Transitioning to Heavily Urban	Bluemont Park	Four-Mile Run-Glencarlyn	Residential Transitioning to Heavily Urban	Glencarlyn Park	Four-Mile Run-Barcroft	Residential Transitioning to Heavily Urban	Barcroft Park	Lubber Run	Residential Transitioning to Heavily Urban	Lubber Run Park	Margaret Creek	Reference Site	Clifton, VA	DES/OSEM	Monitoring will take place at the monitoring locations specified in Table B in section 1.C.2.c. A map of locations is also available on the County's monitoring website .										See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column.
Stream	Land Use	Location																																												
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1.C.2.d	The permittee may rely on community volunteers to conduct biological stream monitoring provided each volunteer has attended two training events. Documentation of volunteer training shall be kept on file for review.	DES/OSEM	Arlington will continue to rely on community volunteer monitors to conduct biological stream monitoring. Every monitoring session will be conducted by a team leader. Every team leader will have participated in two or more trainings since starting with the program prior to conducting a monitoring session. The team leader conducting each monitoring session supervises additional volunteers and instructs in the field, as needed. In addition, the County program manager provides hands-on, in-the-field training to volunteers as needed. The presence of County program manager at a											See information listed in the Program Plan Elements (July 1, 2021 – June 30, 2022) column. Staff continue to recruit new volunteers and offer volunteer training opportunities. An Access database tracks volunteers, trainings, and hours. Volunteer training opportunities and descriptions are listed in Table 2 of Appendix AR19 . Trainings held in FY22 are included in the Public Outreach / Education Presentations and Events table in Appendix AR13 .																																

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				Permit Year								
				1	2	3	4	5				
			<p>session indicates and confirms that training was provided at the monitoring session.</p> <p>Volunteers assisting the team leaders conducting the monitoring session will be required to attend two trainings during the duration of the permit period. Training options include in-the-field, hands-on-training, and virtual classroom-based trainings – Introduction to Monitoring, Open Lab, Virtual Open Lab, Arlington Macroinvertebrate Communities, Master Identifier Test, the annual volunteer meeting, and the annual team leader and master identifier refresher training.</p> <p>Additional trainings may be developed in the future based on volunteer and program needs. The County program manager will track the participation of volunteers in a database. The training sign-in sheets will serve as back-up documentation of the volunteer's participation.</p> <p>As a volunteer program, the list of participating volunteers who assist the team leader conducting a monitoring session adjusts with time as a response to the volunteers' interests and life events. Sometimes a volunteer may take the introductory training, and then decide to not continue with the program. The County cannot require them to take a second training if they have left the program.</p>									
1.C.2.e	The permittee shall obtain all necessary aquatic wildlife collection permits from appropriate State and/or Federal agencies.	DES/OSEM	Arlington County is required to obtain a permit from the Virginia Department of Wildlife Resources (DWR) for macroinvertebrate sampling. Each permit lasts two years. Arlington re-applies for this permit as necessary.	▶	▶	▶	▶	▶			The County renewed its permit from DWR for macroinvertebrate sampling in March 2022.	
1.C.3	Floatables Monitoring											
	The permittee shall continue to develop and implement a floatables program. The intent of the program is to identify problem areas and evaluate floatables control	DES/OSEM	The County will continue to implement a floatables program. The program will focus on identifying problem areas and evaluate	▶	▶	▶	▶	▶				

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				Permit Year								
				1	2	3	4	5				
1.C.3	opportunities for source and structural controls. The permittee shall document the effectiveness of the litter control programs for the MS4 and this may be accomplished through a volunteer program. The permittee will:		opportunities for addressing litter through programmatic actions and structural controls.									
1.C.3.a	Select representative sampling sites in ditches, streams, or channels that discharge to or receive drainage from the MS4. Visually count all floatable material (excluding natural vegetation), trash, and refuse (e.g.: plastic trash bags, bottles, car batteries, shopping carts, etc.) located in the sampling site, visible on the channel bottom, along banks (up to high water mark), or suspended in vegetation located in the sample site. Sites shall be at least 100 feet in length and sampled during or before any litter pickup.	DES/OSEM EcoAction Arlington	Under its work agreement with the County, EcoAction Arlington administers this portion of the floatables monitoring program. Clean-ups and corresponding surveys are conducted at select locations along Four Mile Run as part of their stream cleanup programs. The locations include two sites along lower Four Mile Run at Shirlington Park and at Barcroft Park and one along Four Mile Run near Columbia Pike. All sites are at least 100 feet in length and will be sampled during litter pickup. The floatables survey will include visual counts of all floatable material (excluding natural vegetation), trash, and refuse (e.g.: plastic trash bags, bottles, car batteries, shopping carts, etc.) located in sampling site, visible on the channel bottom, along banks (up to high water mark), or suspended in vegetation located in the sample site.								Each annual report shall include a list of sites surveyed for floatables including a summary of observations at each site, and a determination as to the effectiveness of the floatables reduction program including a summary of the opportunities for source and structural controls.	See Appendix AR20 for information on FY22 floatables surveys. Surveys were conducted at Barcroft Park, Arlington Mill, and Shirlington Park.
1.C.3.b	The permittee shall maintain the following records and include a summary of results and trends in each annual report: location of the sample site, total site “counts”, and months since the last trash and floatables pick-up from the sampled section	DES/OSEM	Information about site locations and a summary of survey results and trends will be included in each annual report.									See Appendix AR20 for information on FY22 floatables surveys and results.

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				Permit Year							
				1	2	3	4	5			
1.C.3.c	In the first three years of the permit term, the permittee shall implement two structural (2) floatables control pilot projects to evaluate different technologies that would be effective for use in the County. This can be developed as one pilot project with two structural controls and shall include evaluation of quantities accumulated; discussion of the controls, maintenance requirements and any issues; potential for expanded use within the MS4 system; and a summary of the results.	DES/OSEM	As part of the Ballston Pond Retrofit Project , two structural trash control devices will be installed to capture floatable coming into the facility: a manufactured trash capture system and a trash rack at the outflow. The pond receives runoff from more than 300 acres of urban and suburban land. The County will be able to assess the quantities of floatables captured during routine maintenance of the devices by the County's contractor. The County will evaluate the effectiveness of the devices and associated maintenance effort.						June 30, 2025	The fourth annual report shall include an evaluation of the floatables pilot projects with the name of the sites where the pilot projects are implemented and shall include evaluation of quantities accumulated; maintenance requirements and issues; report on controls; opportunities for expanded use for application within the MS4 system; and a summary of the results.	For the floatables pilot project, the County will be incorporating two structural floatables controls as part of the Ballston Pond Retrofit Project . The two control devices will be installed to capture floatables coming into the facility via Lubber Run as well as any floatables that enter the facility beyond the main inlet. The pond receives runoff from more than 300 acres of urban and suburban land as well as any trash from a section of Interstate 66. It is anticipated the devices will be installed in late Fall 2022. The County recently conducted trash survey at the project site to determine the quantity and types of trash found in the facility. 677 items of trash were documented around the perimeter of the project site. The survey was conducted to verify the choice of location for the pilot program and get an understanding of the types of trash that are washed or blown into the project area. The County is working on developing inspection and maintenance protocols for the devices to assess the quantity of floatables captured during scheduled inspections by the County or County contractor. The County will evaluate the effectiveness as well as the associated cost and effort to maintain the devices.
1.D	Structural and Source Controls Compliance Monitoring and Tracking										
1.D.1	Electronic Database -The permittee shall maintain an updated electronic database or spreadsheet of all known permittee-owned or operated and privately owned stormwater management (SWM) facilities that discharge to or from the MS4. The database shall include the following information: a) The SWM facility or BMP type, and location by latitude and longitude (in decimal degrees); b) The unique identifier reference number for each SWM facility listed in the mapping section Part I.B.8.c.1) (b). c) The acres treated by the stormwater management facility or BMP, including total acres, pervious acres and impervious acres; d) The date the facility was brought online (MMYYYY). If the date brought online is not known, the permittee shall use June 30, 2005;	DES/OSEM	For the purpose of the MS4 permit, stormwater management facilities (SWMFs) are divided into two classifications: County-owned or Private water quality facilities. County-owned – Water quality facilities for Arlington County-owned or operated facilities. Private – Water quality facilities on private property with a Maintenance and Monitoring Agreement (MMA). The universe of water quality facilities without MMAs (prior to implementation of the MMA requirement) is small relative to the number of facilities with MMAs. The County's authority for facilities without MMAs is limited. These facilities are included with the County's tracking and							A summary of actions taken by the permittee to ensure maintenance of private stormwater management facilities. A summary of the program to ensure maintenance of stormwater management facilities owned or maintained by the permittee. A statement either confirming that the electronic database of all known public and private BMPs that discharge to or from the MS4 as required in Part I.D.1 was updated, or that no update was required because no new BMPs were installed. A list of all BMPs reported to the DEQ CGP Database as required in Part I D.2 for this annual reporting cycle.	To ensure maintenance of private stormwater management facilities Arlington County sent notices to property owner that were required to submitting inspection report on September 24, 2021. Overdue notices were sent on December 1, 2021 to all property owners that had incomplete inspections, outstanding maintenance, or had not submitted anything. The County sent notices on April 6, 2022, notifying property owners with incomplete inspection reports that Arlington County or its agents would conduct the inspection at their cost. Violation inspections were conducted between May 9, 2022 and June 10, 2022. For outstanding maintenance from FY21, NOV maintenance letters ("work to begin letters") were sent out on October 11, 2021. Work was

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				Permit Year								
				1	2	3	4	5				
	<p>e) The 6th Order Hydrologic Unit Code (HUC 6) in which the SWM facility is located;</p> <p>f) Whether the SWM facility or BMP is owned or operated by the permittee or privately owned;</p> <p>g) Whether or not the stormwater management facility or BMP is part of the permittee's Chesapeake Bay TMDL action plan required in Part I.E.1 or local TMDL action plan required in Part I.E.2, or both;</p> <p>h) Whether the SWM facility discharges into the permittee's MS4;</p> <p>i) If the stormwater management facility or BMP is privately owned, whether a maintenance agreement or maintenance strategy exists; and;</p> <p>j) The date of the permittee's most recent inspection of the stormwater management facility or BMP.</p> <p>The database shall be updated to include the required information for SWM facilities known to exist prior to issuance of this permit.</p> <p>Facilities that provide peak flow control as required under Chapter 60 of the Arlington County Code are excluded from the requirements of this section. Inspection and maintenance requirements for these facilities shall be in accordance with all applicable state and local ordinances, regulations, and statutes.</p> <p>The electronic database or spreadsheet shall be updated no later than 30 days after a new stormwater management facility has an as-built drawing that has been approved or is brought online, a new BMP is implemented to meet a TMDL load reduction as required in Part I.E, or discovered if it is an existing stormwater management facility. A copy of the electronic database shall be made available upon request by the Department.</p>		<p>reporting for this permit element but are flagged as not having an MMA.</p> <p>The County continues to maintain and update information in its electronic database (Cartegraph) of all known County-owned and private SWMF, including facilities known to exist prior to this permit. The County tracks the information specified in section 1.D.1.a-j. The database is updated within 30 days of a SWMF being brought online and the as-built drawing being approved.</p> <p>A copy of the electronic database will be made available to DEQ upon request.</p>							<p>A copy of the MS4 BMP Template submitted annually to the DEQ BMP Warehouse in accordance with Part I.D.3 listing the BMPs implemented between July 1 and June 30 of each year for reporting any practices not reported in accordance with Part I.D.2, the DEQ Construction Stormwater database.</p>	<p>completed and the bills were forwarded to property owners in December of 2021. Overdue maintenance letters were sent to on March 22, 2022. Maintenance work for FY22 will take place in the Fall of FY23.</p> <p>The County's asset management system, Cartegraph, is used to track public and private SWMFs and is updated on a regular basis to add new facilities.</p> <p>See Appendix AR21 for a list of BMP facilities reported in FY22. <i>Note that the County fails out all facilities with VA DEQ in the DEQ BMP Warehouse in AC to ensure nothing is double counted and replace them with records from our database.</i></p> <p>See Appendix AR22 - AC MS4 BMP Template for DEQ BMP Warehouse</p>	
1.D.2	<p>DEQ Construction Stormwater Database. The permittee shall use the DEQ Construction Stormwater Database or other application as specified by the Department to report each stormwater management facility installed after July 1, 2014, to address the control of post-construction runoff from land disturbing activities for which the permittee is required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.</p>	DES/OSEM DES/DTS/DSB	<p>Arlington County continues to use the DEQ Construction Stormwater Database to report each stormwater management facility that is brought online / installed to meet the requirements of the VPDES Construction GP and VSMP regulations.</p>	▶	▶	▶	▶	▶		<p>A list of all BMPs reported to the DEQ CGP Database as required in Part I D.2 for this annual reporting cycle.</p>	<p>See Appendix AR21 for a list of all BMPs reported to the DEQ CGP Database as required in Part I D.2</p>	
1.D.3	<p>BMP Warehouse or the Data Upload System. No later than October 1 each year, the permittee shall use the</p>	DES/OSEM DES/DTS/DSB	<p>Arlington County continues to use the DEQ BMP Warehouse to input new, upgraded,</p>	▶	▶	▶	▶	▶		<p>A copy of the MS4 BMP Template submitted annually to the DEQ BMP Warehouse in</p>	<p>See Appendix AR22 - AC MS4 BMP Template for DEQ BMP Warehouse</p>	

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				Permit Year								
				1	2	3	4	5				
	<p>DEQ BMP Warehouse to input new, upgraded, or retrofitted BMPs implemented between July 1 to June 30 of each year that have not already been reported in accordance with Part I.D.2. This would include the stormwater management facilities installed to control post-development stormwater runoff from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations (9VAC25-830) and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required.</p> <p>The following BMP information shall not be reported on the MS4 BMP Template in the DEQ BMP Warehouse:</p> <ul style="list-style-type: none"> • BMP information entered into the 319(h) or WQIF NPS grant-funded project program; • BMPs submitted through DCR’s agricultural cost share database; • BMPs submitted through the Virginia Conservation Assistance Program (VCAP); or • BMPs submitted through the Storm Water Construction General Permitting (CGP) Database. 		or retrofitted BMPs implemented between July 1 to June 30 of each year that have not already been reported in accordance with Part I.D.2.							accordance with Part I.D.3 listing the BMPs implemented between July 1 and June 30 of each year for reporting any practices not reported in accordance with Part I.D.2, the DEQ Construction Stormwater database.		
1.E TMDL ACTION PLAN AND IMPLEMENTATION												
1.E.1 Chesapeake Bay TMDL												
1.E.1	The Commonwealth’s Phase I, II, and III Chesapeake Bay TMDL Watershed Implementation Plans (WIPs) commit to a phased approach for MS4s, affording MS4 permittees up to three full five-year permit cycles to implement necessary reductions. This permit is consistent with the Chesapeake Bay TMDL and Virginia’s Watershed Implementation Plan to meet the Level 2 (L2) scoping run for existing developed lands as it represents an implementation of an additional 35% of L2 as specified in the 2010 Phase I and Phase II WIPs. In combination with the 5.0% reduction of L2 that has already been achieved, a total reduction at the end of this permit term of 40% of L2 will be achieved. Conditions of future permits will be consistent with the TMDL or WIP conditions in place at the time of permit issuance.	DES/OSEM										
1.E.1.a	<p>Definitions The following definitions apply to Part I.E.1:</p> <ol style="list-style-type: none"> 1) “Existing Sources” means pervious and impervious urban land uses served by the MS4 as of June 30, 2009. 2) “New Sources” means pervious and impervious urban land uses served by the MS4 developed or redeveloped on or after July 1, 2009. 											

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				1	2	Permit Year																																																	
						3	4	5																																															
	3) "Pollutants of concern" or "POC" means total nitrogen, total phosphorus and total suspended solids. 4) "Transitional Sources" means regulated land disturbing activities which are temporary in nature and discharge through the MS4.																																																						
1.E.1.b	<p>Reduction Requirements. No later than the expiration date of this permit, the permittee shall reduce the load of total nitrogen, total phosphorus, and total suspended solids from existing developed lands served by the MS4 as of June 30, 2009 within the MS4 service area by at least 40% of the Level 2 (L2) Scoping Run Reductions. The 40% reduction is the sum of i) the first phase reduction of 5.0% of the L2 Scoping Run Reductions based on the lands located within the MS4 service area as required by June 30, 2018; ii) the second phase reduction of at least 35% of the L2 Scoping Run based on lands within the MS4 service area required by the end of the permit term; and iii) the reduction of at least 40% of the L2 Scoping Run which shall only apply to the additional lands that were added by an increase or expansion of the stormwater system as required by the end of the permit term. The required reductions shall be calculated using Table 2 below.</p> <table border="1"> <caption>Table 2 Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the Potomac River Basin</caption> <thead> <tr> <th>Pollutant</th> <th>Subsource</th> <th>A Loading rate (lbs/a c/yr)¹</th> <th>B Loading rate (lbs/a c/yr)¹</th> <th>C Load (lbs/yr)³</th> <th>D Percentage of MS4 required Chesapeake Bay total L2 loading reduction</th> <th>E Percentage of L2 required reduction by permit expiration</th> <th>F 40% cumulative reduction required by permit expiration (lbs/yr)⁴</th> <th>G Sum of 40% cumulative reduction (lb/yr)⁵</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Nitrogen</td> <td>Regulated urban impervious</td> <td>16.86</td> <td></td> <td></td> <td>9%</td> <td>40%</td> <td></td> <td></td> </tr> <tr> <td>Regulated urban pervious</td> <td>10.07</td> <td></td> <td></td> <td>6%</td> <td>40%</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Phosphorus</td> <td>Regulated Urban Impervious</td> <td>1.62</td> <td></td> <td></td> <td>16%</td> <td>40%</td> <td></td> <td></td> </tr> <tr> <td>Regulated</td> <td>0.41</td> <td></td> <td></td> <td>7.25%</td> <td>40%</td> <td></td> <td></td> </tr> </tbody> </table>	Pollutant	Subsource	A Loading rate (lbs/a c/yr) ¹	B Loading rate (lbs/a c/yr) ¹	C Load (lbs/yr) ³	D Percentage of MS4 required Chesapeake Bay total L2 loading reduction	E Percentage of L2 required reduction by permit expiration	F 40% cumulative reduction required by permit expiration (lbs/yr) ⁴	G Sum of 40% cumulative reduction (lb/yr) ⁵	Nitrogen	Regulated urban impervious	16.86			9%	40%			Regulated urban pervious	10.07			6%	40%			Phosphorus	Regulated Urban Impervious	1.62			16%	40%			Regulated	0.41			7.25%	40%			DES/OSEM										
Pollutant	Subsource	A Loading rate (lbs/a c/yr) ¹	B Loading rate (lbs/a c/yr) ¹	C Load (lbs/yr) ³	D Percentage of MS4 required Chesapeake Bay total L2 loading reduction	E Percentage of L2 required reduction by permit expiration	F 40% cumulative reduction required by permit expiration (lbs/yr) ⁴	G Sum of 40% cumulative reduction (lb/yr) ⁵																																															
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											1	2	Permit Year						
													3	4	5				
	urban pervious																		
	Total suspended solids	Regulated urban impervious				20%	40%												
		Regulated urban pervious				8.75%	40%												
	<p>1Edge of stream loading rate based on the Chesapeake Bay Watershed Model 5.3.2</p> <p>2To determine the existing developed acres required in Column B, permittees should first determine the extent of their regulated MS4 service area. Next, permittees will need to delineate the lands within the regulated area served by the MS4 as pervious or impervious as of the baseline date of June 30, 2009.</p> <p>3Column C = Column A x Column B</p> <p>4Column F = Column C x Column D x Column E.</p> <p>5Column G = The sum of the subsource cumulative reduction required by permit expiration (lbs/yr) as calculated in Column F.</p>																		
1.E.1.c	<p>No later than the expiration date of this permit, the permittee shall offset 40% of the increased loads from new sources initiating construction between July 1, 2009 and June 30, 2024 and designed in accordance with 9VAC25-870-47 Part II C (VAC25-870-93 et seq.) if the following conditions apply:</p> <ol style="list-style-type: none"> 1) The activity disturbed one acre or greater; and 2) The resulting total phosphorus load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition greater than 16% impervious cover. <p>The permittee shall utilize Table 3 below to develop the equivalent pollutant load for nitrogen and total suspended solids for new sources meeting the requirements of this condition.</p>								DES/OSEM	Please see Arlington County's Chesapeake Bay TMDL Action Plan 2021-2016 .							June 30, 2026		See Arlington County's Chesapeake Bay TMDL Action Plan 2021-2016 .
1.E.1.d	<p>No later than the expiration of this permit, the permittee shall offset 100% of the increased loads from projects grandfathered in accordance with 9VAC25-870-48 that begin construction after July 1, 2014, if the following conditions apply:</p> <ol style="list-style-type: none"> 1) The activity disturbs one acre or greater; and 2) The resulting total phosphorous load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition of 16% impervious cover. <p>The permittee shall utilize Table 3 below to develop the equivalent pollutant load for nitrogen and total suspended solids for grandfathered sources meeting the requirements of this condition.</p>								DES/OSEM	Please see Arlington County's Chesapeake Bay TMDL Action Plan 2021-2016 .							June 30, 2026		See Arlington County's Chesapeake Bay TMDL Action Plan 2021-2016 .
	<p>Table 3: Ratio of Phosphorus Loading Rate to Nitrogen and Total Suspended Solids Loading Rates for Chesapeake Bay Basins (Based on Chesapeake Bay Program Watershed Model Phase 5.3.2)</p>																		

MS4 Action ID	Permit Requirement				Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
							Permit Year								
							1	2	3	4	5				
	Ratio of Phosphorus to Other POCs (Based on All Land Uses 2009 Progress Run)	Phosphorus Loading Rate (lbs/ac)	Nitrogen Loading Rate (lbs/ac)	Total Suspended Solids Loading Rate (lbs/ac)											
	Potomac River Basin	1.0	6.9	469.2											
1.E.1.e	Reductions achieved in accordance with the Permit for Discharges of Stormwater from Municipal Separate Storm Sewer Systems effective June 26, 2013, shall be applied toward the total reduction requirements to demonstrate compliance with Part I.E.1.b), c), and d).				DES/OSEM										
1.E.1.f	Reductions shall be achieved in each river basin as calculated in Part I.E.1.b) or for reductions in accordance with Part I.E.1.c) and d) in the basin in which the new source or grandfathered project occurred.				DES/OSEM										
1.E.1.g	Loading and reduction values greater than or equal to 10 pounds calculated in accordance with Part I.E.1.b), c), and d) shall be calculated and reported to the nearest pound without regard to mathematical rules of precision. Loading and reduction values of less than 10 pounds reported in accordance with Part I.E.1.b), c), and d) shall be calculated and reported to two significant digits.				DES/OSEM										
1.E.1.h	Reductions required in Part I.E.1.b), c), and d) shall be achieved through one or more of the following: 1) BMPs approved by the Chesapeake Bay Program; 2) BMPs approved by the Department; or 3) A trading program described in Part I.E.1.i).				DES/OSEM										
1.E.1.i	The permittee may acquire and use total nitrogen and total phosphorus credits in accordance with §62.1-44.19:21 of the Code of Virginia and total suspended solids in accordance with § 62.1-44.19:21.1 of the Code of Virginia for purposes of compliance with the required reductions in Table 2 of Parts I.E.1.b), c), and d), provided the use of credits has been approved by the Department. The exchange of credits is subject to the following requirements: 1) The credits are generated and applied to a compliance obligation in the same calendar year; 2) The credits are generated and applied to a compliance obligation in the same tributary; 3) The credits are acquired no later than June 1 immediately following the calendar year in which the credits are applied;				DES/OSEM		▶	▶	▶	▶	▶				

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
	<p>4) No later than June 1 immediately following the calendar year in which the credits are applied, the permittee certifies on an MS4 Nutrient Credit Acquisition Form that the permittee has acquired the credits;</p> <p>5) Total nitrogen and total phosphorus credits shall be either point source credits generated by point sources covered by the Watershed Permit for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Bay Watershed general permit issued pursuant to § 62.1-44.19:14 of the Code of Virginia, or nonpoint source credits certified pursuant to § 62.1-44.19:20 of the Code of Virginia;</p> <p>6) Sediment credits shall be derived from one of the following:</p> <ul style="list-style-type: none"> a. Implementation of BMP in a defined area outside of an MS4 service area, in which case the necessary baseline sediment reduction for such defined area shall be achieved prior to the permittee's use of additional reductions as credit; or b. A point source wasteload allocation established by the Chesapeake Bay total maximum daily load, in which case the credit is the difference between the wasteload allocation specified as an annual mass load and any lower monitored annual mass load that is discharged as certified on an MS4 Sediment Credit Acquisition Form. <p>7) Sediment credits shall not be associated with phosphorus credits used for compliance with the stormwater nonpoint nutrient runoff water quality criteria established pursuant to § 62.1-44.15:28 of the Code of Virginia.</p>											
1.E.1.j	<p>No later than 12 months after the permit effective date, the permittee shall submit an updated Chesapeake Bay TMDL action plan for the reductions required in Part I.E.1.b), c), and d) that includes the following information:</p> <ul style="list-style-type: none"> 1) Any new or modified legal authorities, such as ordinances, permits, policy, specific contract language, orders, and inter-jurisdictional agreements, implemented or needing to be 	DES/OSEM	The updated Chesapeake Bay TMDL Action Plan for the reductions required in Part I.E.1.b), c), and d) is available the County's website .	June 30, 2022	▶	▶	▶	▶			The updated Chesapeake Bay TMDL Action Plan is available the County's website . The plan incorporates public comments received during the public comment period and the County's response to the comments in an appendix.	

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
	<p>implemented to meet the requirements of Parts I.E.1.b), c) and d) to include a review in the development of these actions;</p> <p>2) The load and cumulative reduction calculations for each river basin calculated in accordance with Parts I.E.1.b), c) and d).</p> <p>3) The total reductions achieved to date, for each pollutant of concern in each river basin.</p> <p>4) A list of BMPs implemented to date, to achieve reductions associated with the Chesapeake Bay TMDL including:</p> <ul style="list-style-type: none"> a. The date of implementation; and b. The reductions achieved. <p>5) The BMPs to be implemented by the permittee prior to the expiration of this permit to meet the cumulative reductions calculated in Parts I.E.1.b), c) and d), including as applicable:</p> <ul style="list-style-type: none"> a. Type of BMP; b. Project name; c. Location; d. Percent removal efficiency for each pollutant of concern; and e. Calculation of the reduction expected to be achieved by the BMP calculated and reported in accordance with the methodologies established in Part I.E.1.g) for each pollutant of concern; and <p>6) An estimate of the expected cost to implement the necessary reductions during the permit cycle.</p> <p>7) A summary of any comments received as a result of public participation required in Part I.E.1.k), the permittee's response, identification of any public meetings to address public concerns, and any revisions made to Chesapeake Bay TMDL action plan as a result of public participation.</p>											

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
1.E.1.k	Prior to submittal of the action plan required in Part I.E.1.j), the permittee shall provide an opportunity for public comment on the additional BMPs proposed to meet the reductions not previously approved by the Department in the first phase Chesapeake Bay TMDL action plan for no less than 15 days.	DES/OSEM	<p>The County provided the opportunity for the public to review and comment on the additional BMPs proposed to meet the reductions not previously approved by DEQ in the updated draft Chesapeake Bay TMDL Action Plan from April 15, 2022 – April 30, 2022. The plan was posted on the County’s website and notification of the opportunity for public comment was advertised via various social media avenues and distribution lists.</p> <p>A summary of the comments received, County responses, and any revisions made to the action plan as a result of public comment are included in the Action Plan as an appendix.</p>	June 30, 2022							The County provided the opportunity for the public to review and comment on the additional BMPs proposed to meet the reductions not previously approved by DEQ in the updated draft Chesapeake Bay TMDL Action Plan from April 15, 2022 – April 30, 2022.	
1.E.1.l	<p>As part of development of the Chesapeake Bay TMDL action plan, the permittee may consider use of the following:</p> <ol style="list-style-type: none"> 1) Implementation of BMPs on unregulated lands provided any necessary baseline reduction is not included toward meeting the required reduction in this permit; 2) Utilization of stream restoration projects provided the credit applied to the required POC load reduction is prorated based on the ratio of regulated urban acres to total drainage acres upstream of the restored area; 3) Establishment of a memorandum of understanding (MOU) with other MS4 permittees that discharge to the same or adjacent eight digit hydrologic unit within the same basin to implement BMPs collectively. The MOU shall include a mechanism for dividing the POC reductions created by BMP implementation between the cooperative MS4s. 4) Any BMPs installed after June 30, 2009, as part of a retrofit program may be applied towards meeting the required load reductions provided any necessary baseline reductions are not included. 	DES/OSEM	Please see Arlington County’s Chesapeake Bay TMDL Action Plan 2021-2016 .									
1.E.1.m	The permittee shall address any modification to the TMDL or watershed implementation plan that occurs during the term of this permit as part of its permit reapplication as required in Part II.M of this permit.	DES/OSEM			▶	▶	▶	▶	▶			

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)																																															
				Permit Year																																																							
				1	2	3	4	5																																																			
1.E.1.n	Chesapeake Bay TMDL action plan Implementation The permittee shall implement the TMDL action plan required in Part I.E.1.j) of this permit according to the schedule therein. Compliance with this requirement represents adequate progress for this permit term towards achieving TMDL wasteload allocations consistent with the assumptions and requirements of the TMDL.	DES/OSEM	The County will implement its updated Chesapeake Bay TMDL Action Plan 2021-2016 .	▶	▶	▶	▶	▶				The County has begun implementing its revised Chesapeake Bay TMDL Action Plan.																																															
1.E.1.o	Specific Reporting Requirements. For each annual reporting period, the report shall include the following: 1) Any modifications to the CB TMDL action plan made during the July 1 to June 30 reporting cycle. 2) A copy of the MS4 BMP Template submitted to the DEQ BMP Warehouse in accordance with Part I.D.3 with a cumulative listing of all BMPs implemented to date to meet the CB TMDL requirements of Part I.E.1, identifying which BMPs were completed within the current annual reporting cycle. The following information shall also be included: a. For BMPs used to meet the CB TMDL requirements of Part I.E.1: the SWM facility unique identifier number; total acreage treated; total impervious and total pervious acreage treated; the pollutants of concern load reductions reported in pounds per year; the pollutant removal efficiencies and source of each efficiency; as well as proposed BMPs planned for implementation during the next reporting cycle. b. For retrofit projects used to meet the CB TMDL requirements of Part I.E.1: the type of land use being retrofitted; the existing stormwater management facility type before retrofit, if applicable; retrofit type used; retrofit performed; completion date or anticipated completion date; total acreage retrofitted; total impervious and total pervious acreage retrofitted; the SWM facility unique identifier number; and if applicable, the incremental reduction credit achieved with the retrofit (the incremental credit is defined as the difference	DES/OSEM	Applicable information specified in Section 1.E.1.o.1-5 will be provided in each annual report.	▶	▶	▶	▶	▶				<p>The plan was updated - Chesapeake Bay TMDL Action Plan 2021-2016.</p> <p>See Appendix AR22 - AC MS4 BMP Template for DEQ BMP Warehouse</p> <p>No BMPs were implemented that were not reported to the DEQ BMP Warehouse.</p> <p>See Appendix AR3 - SWMF Retrofits Completed FY18-FY22</p> <p>See Appendix AR23 - FY22 Credit for Chesapeake Bay TMDL</p> <p>See Appendix AR24 – FY22 Chesapeake Bay TMDL Summary</p> <p>Estimated Reduction Achieved through FY22:</p> <table border="1"> <thead> <tr> <th rowspan="2">Project Type</th> <th colspan="3">In Place</th> </tr> <tr> <th>TN</th> <th>TP</th> <th>TSS</th> </tr> </thead> <tbody> <tr> <td>2006-2009 Historical BMPs</td> <td>140.3</td> <td>18.4</td> <td>16,101.3</td> </tr> <tr> <td>Development</td> <td>871.4</td> <td>62.0</td> <td>44,270.4</td> </tr> <tr> <td>Living Shore</td> <td>29.6</td> <td>32.1</td> <td>20,969.9</td> </tr> <tr> <td>Septic Conversions</td> <td>52.9</td> <td>0.0</td> <td>0.0</td> </tr> <tr> <td>Stream Restoration</td> <td>1651.8</td> <td>681.2</td> <td>654,595.2</td> </tr> <tr> <td>Street Sweeping</td> <td>86.5</td> <td>21.0</td> <td>32,569.8</td> </tr> <tr> <td>Trades Retrofit</td> <td>14.8</td> <td>2.2</td> <td>2,059.7</td> </tr> <tr> <td>Watershed Retrofit</td> <td>180.5</td> <td>15.7</td> <td>11,144.60</td> </tr> <tr> <td>Total Credits</td> <td>3,027.8</td> <td>832.7</td> <td>781,710.9</td> </tr> <tr> <td>Total Progress</td> <td>26.2%</td> <td>54.4%</td> <td>59.6%</td> </tr> </tbody> </table> <p>The forty percent POC reduction requirement for this permit cycle has been exceeded for TP and TSS. The means and methods implemented to date include watershed retrofit projects, stream restoration projects, living shore, outfall repair and redevelopment-based reductions, street sweeping, septic tank conversions, and 2006-2009 ‘historical BMPs.’</p>	Project Type	In Place			TN	TP	TSS	2006-2009 Historical BMPs	140.3	18.4	16,101.3	Development	871.4	62.0	44,270.4	Living Shore	29.6	32.1	20,969.9	Septic Conversions	52.9	0.0	0.0	Stream Restoration	1651.8	681.2	654,595.2	Street Sweeping	86.5	21.0	32,569.8	Trades Retrofit	14.8	2.2	2,059.7	Watershed Retrofit	180.5	15.7	11,144.60	Total Credits	3,027.8	832.7	781,710.9	Total Progress	26.2%	54.4%	59.6%
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MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
				Permit Year								
				1	2	3	4	5				
	<p>between the existing SWM facility reduction credit and the retrofit reduction credit attained) including pre and post pollutant retrofit removal efficiencies and source of each efficiency.</p> <p>3) A list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I.D.3) and the estimated reduction of pollutants of concern achieved by each and reported in pounds per year.</p> <p>4) If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions in Part I.E.1.b), c) or d), a statement that credits were acquired;</p> <p>5) The permittee shall include the following as part of its reapplication package due in accordance with Part II.M:</p> <ul style="list-style-type: none"> a. Documentation that sufficient control measures have been implemented (or documentation detailing that implementation will be complete by the expiration date of this permit) to meet the compliance target identified in this section. If temporary credits or offsets have been purchased in order to meet the compliance target, the list of temporary reductions utilized to meet the cumulative 40% required reductions of L2 in this permit and a schedule of implementation to ensure a permanent cumulative 40% reduction shall be provided; b. A draft third phase Chesapeake Bay TMDL action plan designed to address the following: <ul style="list-style-type: none"> 1. Reduction in the POC loads by the cumulative 100% of the L2 required reductions. 2. The means and methods to offset increased loads from new sources initiating construction between July 1, 2009 and June 30, 2024 that disturb one acre or greater as a result of the utilization of an average land cover condition greater than 16% impervious 											

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)	
				Permit Year									
				1	2	3	4	5					
	cover for the design of post development stormwater management facilities using the same methodology described in Part I.E.1.b), (c) and (d); and 3. Accounting for any modifications to the applicable loading rate provided to the permittee as a result of TMDL modification.												
1.E.2	1.E.2 Non Chesapeake Bay (Local) TMDLs												
1.E.2.a	<p>The permittee shall develop a local TMDL action plan designed to reduce loadings for pollutants of concern if the permittee discharges the pollutants of concern to an impaired water for which a TMDL has been approved by the U.S. Environmental Protection Agency (EPA) as described in Part I.E.2.a).1) and 2) below. Approved TMDLs as of the effective date of this permit are listed in Attachment A of this permit.</p> <p>1) For TMDLs approved by the EPA prior to July 1, 2013, and in which an individual or aggregate wasteload has been allocated to the permittee, the permittee shall update the previously approved local TMDL action plans to meet the conditions of Parts I E 2.c); E.2.d); E.2.e); and E.2.f) as applicable, and shall submit the Local TMDL action plan to the Department no later than 18 months after the permit effective date and continue implementation of the action plan; and</p> <p>2) For TMDLs approved by EPA on or after July 1, 2013, and prior to the permit effective date, and in which an individual or aggregate wasteload has been allocated to the permittee, the permittee shall develop and initiate implementation of action plans to meet the conditions of Parts I E 2.c); E.2.d); E.2.e); and E.2.f); as applicable for each pollutant for which wasteloads have been allocated to the permittee's MS4 and shall submit the Local TMDL action plan to the Department no later than 30 months after the permit effective date.</p>	DES/OSEM	The County will review, update as necessary and continue to implement its local TMDL Action Plans for <i>E. coli</i> bacteria and PCBs.									<p>In FY22, the County reviewed and updated its Bacteria and PCB TMDL Action Plans.</p> <p>The updated Bacteria and PCB TMDL Action Plans will be provided to DEQ in January 2023 following public comment in fall 2022 and resulting applicable revisions.</p> <p>Copies of the final plans will be posted on the County's website.</p> <p>A summary of implementation of the existing Bacteria and PCB TMDL Action Plans for FY22 can be found in Appendices AR25 and AR26, respectively.</p>	
1.E.2.b	The permittee shall complete implementation of the TMDL action plans as soon as practicable. TMDL action plans may be implemented in multiple phases over more than one permit cycle using the adaptive iterative approach provided adequate progress is achieved in the implementation of BMPs designed to reduce pollutant	DES/OSEM	The County will continue an adaptive iterative approach over multiple permit cycles to achieve pollution reduction to the maximum extent practicable – especially given the limited BMPs and controls to address reduction of bacteria and PCB loading.										The County will continue an adaptive iterative approach over multiple permit cycles to achieve pollution reduction to the maximum extent practicable – especially given the limited BMPs and controls to address reduction of bacteria and PCB loading.

MS4 Action ID	Permit Requirement	Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)							
				Permit Year															
				1	2	3	4	5											
	discharges in a manner that is consistent with the assumptions and requirements of the applicable TMDL.																		
1.E.2.c	<p>Each local TMDL action plan developed by the permittee shall include the following:</p> <ol style="list-style-type: none"> 1) Name of the TMDL; 2) The EPA approval date of the TMDL; 3) The wasteload allocation assigned to the permittee (individually or in aggregate), and the corresponding percent reduction, if applicable; 4) Identification of the significant sources of the pollutants of concern discharging to the permittee's MS4 and that are not covered under a separate VPDES permit. For the purposes of this requirement, a significant source of pollutants means a discharge where the expected pollutant loading is greater than the average pollutant loading for the land use identified in the TMDL; 5) The BMPs designed to reduce the pollutants of concern in accordance with Parts I.E.2.d) and E.2.e); 6) Any calculations required in accordance with Parts I.E.2.d) and E.2.e); 7) For action plans developed in accordance with Parts I.E.2.d), an outreach strategy to enhance the public's education (including employees) on methods to eliminate and reduce discharges of the pollutants; and 8) A schedule of anticipated actions planned for implementation during this permit term. 	DES/OSEM	The local TMDL Action Plans will include the required information specified in section 1.E.2.c.1-8.									The updated Action Plans will include the criteria listed in section 1.E.2.c.1-8							
1.E.2.d	<p>Bacterial TMDLs.</p> <ol style="list-style-type: none"> 1) The permittee shall select and implement at least six of the strategies listed in Table 4 below designed to reduce the load of bacteria to the MS4. Selection of the strategies shall correspond to significant sources of pollutants identified in Part I.E.2.c.4) above. <table border="1" data-bbox="344 1459 944 1800"> <thead> <tr> <th colspan="2">Table 4. Strategies for Bacteria Reduction Stormwater Control/Management Strategy</th> </tr> <tr> <th>Source</th> <th>Strategies (provided as an example and not meant to be all inclusive or limiting.</th> </tr> </thead> <tbody> <tr> <td>Domestic pets (dogs and cats)</td> <td>Provide signage to pick up dog waste, providing pet waste bags and disposal containers.</td> </tr> </tbody> </table>	Table 4. Strategies for Bacteria Reduction Stormwater Control/Management Strategy		Source	Strategies (provided as an example and not meant to be all inclusive or limiting.	Domestic pets (dogs and cats)	Provide signage to pick up dog waste, providing pet waste bags and disposal containers.	DES/OSEM	The County will update its existing Local TMDL Action Plan for bacteria to include at least six of the required strategies for pollution reduction outlined in Table 4 of section 1.E.2.d.										The County is currently implementing several of the strategies listed in Table 4 in section 1.E.2.d. A summary of implementation of the current existing Bacteria TMDL Action Plans for FY22 can be found in Appendix AR25 .
Table 4. Strategies for Bacteria Reduction Stormwater Control/Management Strategy																			
Source	Strategies (provided as an example and not meant to be all inclusive or limiting.																		
Domestic pets (dogs and cats)	Provide signage to pick up dog waste, providing pet waste bags and disposal containers.																		

MS4 Action ID	Permit Requirement		Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
					Permit Year								
					1	2	3	4	5				
		<p>Adopt and enforce pet waste ordinances or policies, or leash laws or policies.</p> <p>Place dog parks away from environmentally sensitive areas.</p> <p>Maintain dog parks by removing disposed of pet waste bags and cleaning up other sources of bacteria.</p> <p>Protect riparian buffers and provide unmanicured vegetative buffers along streams to dissuade stream access.</p>											
	Urban wildlife	<p>Educate the public on how to reduce food sources accessible to urban wildlife (e.g., manage restaurant dumpsters and grease traps, residential garbage, feed pets indoors).</p> <p>Install storm drain inlet or outlet controls.</p> <p>Clean out storm drains to remove waste from wildlife.</p> <p>Implement and enforce urban trash management practices.</p> <p>Implement rooftop disconnection programs or site designs that minimize connections to reduce bacteria from rooftops.</p> <p>Implement a program for removing animal carcasses from roadways and properly</p>											
	Illicit connections or illicit discharges to the MS4	Implement an enhanced dry weather screening and illicit discharge,											

MS4 Action ID	Permit Requirement		Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
					Permit Year								
					1	2	3	4	5				
		<p>detection, and elimination program beyond the requirements of Part I E 3 to identify and remove illicit connections and identify leaking sanitary sewer lines infiltrating to the MS4 and implement repairs.</p> <p>Implement a program to identify potentially failing septic systems.</p> <p>Educate the public on how to determine whether their septic system is failing.</p> <p>Implement septic tank inspection and maintenance program.</p> <p>Implement an educational program beyond any requirements in Part I E 1 through E 6 to explain to citizens why they should not dump materials into the MS4.</p>											
	Dry weather urban flows (irrigations, car washing, power washing)	<p>Implement public education programs to reduce dry weather flows from storm sewers related to lawn and park irrigation practices, carwashing, powerwashing and other nonstormwater flows.</p> <p>Provide irrigation controller rebates.</p>											
	Power washing	<p>Implement and enforce ordinances or policies related to outdoor (etc.) water waste.</p> <p>Inspect commercial trash areas, grease traps, washdown practices, and enforce corresponding ordinances or policies.</p>											

MS4 Action ID	Permit Requirement		Responsible Party	Program Plan Elements (July 1, 2021 – June 30, 2022)	Due Date		Annual Timeline					Specific Reporting Requirements	Annual Report Permit Year 1 FY22 (2021-2022)
					Permit Year								
					1	2	3	4	5				
	Birds (Canada geese, gulls, pigeons, etc.)	Identify areas with high bird populations and evaluate deterrents, population controls, habitat modifications and other measures that may reduce bird-associated bacteria loading. Prohibit feeding of birds.											
	Other sources	Enhance maintenance of stormwater management facilities owned or operated by the permittee. Enhance requirements for third parties to maintain stormwater management facilities. Develop BMPs for locating, transporting, and maintaining portable toilets used on permittee-owned sites. Educate third parties that use portable toilets on BMPs for use. Provide public education on appropriate recreational vehicle dumping practices.											
1.E.2.e	Polychlorinated biphenyl (PCB) TMDLs. 1) For each PCB TMDL action plan, the permittee shall include an inventory of potentially significant sources of PCBs owned or operated by the permittee that drains to the MS4 that includes the following information: a) Location of the potential source; b) Whether or not the potential source is from current site activities or activities previously conducted at the site that have been terminated (i.e. legacy activities); and c) A description of any measures being implemented or to be implemented to prevent exposure to stormwater and the discharge of PCBs from the site.	DES/OSEM	The County will update its existing Local TMDL Action Plan for PCBs to include the information outlined in section 1.E.2.e (a-c).									The County continues to undertake pollution minimization practices and stormwater management initiatives aimed at reducing sediment loading, which in turn should reduce PCB loading to the MS4. These efforts complement the gradual reduction of PCB loads from atmospheric deposition and long-term chemical breakdown. In addition, the County continues to conduct education and outreach about proper disposal of various waste materials and debris. PCBs can be found in transformers and capacitors, coolants in electrical equipment, lubricants and hydraulic fluids, old fluorescent light ballasts, thermal insulation materials, adhesives and tapes, caulk, roofing materials and asphalt, pesticides, plastics, inks in products such	

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				Permit Year								
				1	2	3	4	5				
												as newspapers, magazines, or cardboard, clothing pigments and dyes, and paints. Educating the public about proper disposal and recycling practices and providing programs and events such as the Household Hazardous Waste Collection and metal and white goods collection programs and E_CARE events are important steps to help prevent PCBs from getting into the environment via improper disposal, dumping, or littering. A summary of implementation of the current, existing PCB TMDL Action Plan for FY22 can be found in Appendix AR26 .
1.E.2.f	Prior to submittal of the action plan required in Part I.E.2.a), the permittee shall provide an opportunity for public comment proposed to meet the local TMDL action plan requirements for no less than 15 days.	DES/OSEM	The County will provide the opportunity for the public to review and comment on local TMDL Action Plans for no less than fifteen days. The plans will be posted on the County's website and notification of the opportunity for public comment will be advertised via various social media avenues and distribution lists.	▶	▶	▶	▶	▶				Public comment for the Bacteria and PCB TMDL Action Plans is anticipated to occur in fall 2022.
1.E.2.g	The MS4 program plan as required by Part I.A.6 of this permit shall incorporate each local TMDL action plan. Local TMDL action plans may be incorporated by reference into the MS4 program plan provided that the program plan includes the date of the most recent local TMDL action plan and identification of the location where a copy of the local TMDL action plan may be obtained.	DES/OSEM	Copies of the updated Local TMDL Action Plans shall be included as appendices in future updated of this Program Plan. The Program Plan will be available on the County's website.	▶	▶	▶	▶	▶				
1.E.2.h	Specific Reporting Requirements: 1) For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan.	DES/OSEM	The County will provide a summary of actions taken as part of plan implementation in each annual report.	▶	▶	▶	▶	▶		For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan.		A summary of actions taken in FY23 following the update and finalization of the Bacteria and PCB TMDL Actions Plans will be submitting in next year's annual report.
1.E.2.i	The permittee shall identify the best management practices and other steps that will be implemented during the next permit term as part of the permittee's reapplication for coverage as required under Part II.M. The permittee shall also evaluate and modify the estimated end date by either achieving the applicable wasteload allocation or by reducing the pollutants of concern to the maximum extent practicable based on information acquired during the permit cycle.	DES/OSEM	The County will identify BMPs and other actions that will be implemented during the next permit term as part of the County's reapplication for coverage as required under Part II.M. The County will evaluate the estimated end date based on reducing the pollutants of concern to the maximum extent practicable based on information acquired during the permit term.	▶	▶	▶	▶	▶				
1.F. MS4 Program Annual Report												

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				Permit Year							
				1	2	3	4	5			
1.F.1	The permittee shall submit the annual report to the Department, no later than October 1st of each year. The report shall cover the previous fiscal year from July 1st to June 30th. Following notification from the Department of the start date for the required electronic submission of annual reports as provided for in 9VAC25-31-1020, such reports shall be electronically submitted to the Department in compliance with this section and 9VAC25-31-1020. There shall be at least three months' notice provided between the notification from the Department and the date after which such forms must be submitted electronically.	DES/OSEM	The County will submit its annual report each year prior to October 1 st . The report will include the required information specified in sections 1.F.2, 1.F.3, and 1.F.4.	▶	▶	▶	▶	▶		The County submitted its MS4 Annual Report to VA DEQ in September 2022.	
1.F.2	The annual report shall include the following information: a) The permittee and permit number of the program submitting the annual report; b) Any changes to the MS4 program plan as a result of the permit conditions; c) The reporting period for which the annual report is being submitted; and, d) A signed certification as per Part II.K.	DES/OSEM	The Annual Report shall include the required information specified in 1.F.2		▶	▶	▶	▶	▶	This Annual Report includes the information specified in section 1.F.2 a) Arlington County, VA0088579, Arlington County Government b) The updated MS4 Permit Program Plan was submitted to DEQ in June 2022. No changes have been made to the plan. c) July 1, 2021 – June 30, 2022 d) See signed certification page included in report submittal packet	
1.F.3	A summary of the implementation of each of the components established under Parts I.B; I.C; I.D; and I.E and an evaluation of the effectiveness of each component. The permittee should attempt to limit any component's narrative summary to no longer than two-pages plus any necessary tables and figures.	DES/OSEM	A summary of implementation and evaluation of program effectiveness will be provided in the annual report.		▶	▶	▶	▶	▶	A summary of implementation of each of the components for Parts 1.B; 1.C, 1.D and 1.E has been provided in the last column of this annual report as well as in the referenced appendices. Evaluation of effectiveness of MS4 program elements is a continuous process as implementation occurs. During this first permit year, the County updated and submitted its MS4 Program Plan and list of priority projects to DEQ. The Program Plan will be reviewed on an annual basis and any necessary changes will be incorporated. At this time, no significant changes have occurred since the submittal of the updated MS4 Program Plan in June 2022. Additionally the County has successfully completed a number of stormwater retrofit projects listed in this report, updated stormwater pollution prevention plans and protocols, and continued to implement numerous programs focused on preventing pollution discharges to the MS4 and surface waters, including infrastructure maintenance,	

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				Permit Year							
				1	2	3	4	5			
											facilities inspections, education and outreach initiatives, and training.
1.F.4	The Specific Reporting Requirements as identified in this permit.	DES/OSEM	The annual report will include information on the specific reporting requirements specified in the permit	▶	▶	▶	▶	▶			This Annual Report includes the information on the specific reporting requirements.