

Annual Reporting for VA0088617

The permittee shall submit the annual report to the Department in accordance with the following schedule:

Reporting Period	Annual Report Due Date
January 16, 2024 through June 30, 2024	October 1, 2024
July 1, 2024 through June 30, 2025	October 1, 2025
July 1, 2025 through June 30, 2026	October 1, 2026
July 1, 2026 through June 30, 2027	October 1, 2027
July 1, 2027 through June 30, 2028	October 1, 2028
July 1, 2028 through January 15, 2029	October 1, 2029

Each annual report shall include the following background Information:

The permittee and permit number of the program submitting the annual report;

Henrico County / VA0088617

Any modifications to the MS4 Program Plan as a result of the annual report;

None

The reporting dates for which the annual report is being submitted; and

January 16, 2024 through June 30, 2024

Certification as per Part II.K.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for

submitting false information, including the possibility of fine and imprisonment for knowing violations."

John Vithoulkas, County Manager

Name / Title

Handwritten signature and date. The signature is written in black ink and is somewhat stylized. The date is written as "9/19/2021".

Signature / Date

A summary the components under Part I.B. 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.

Part I.B.1 - Planning

A stormwater retrofit project summary that includes potential stormwater management projects to be completed during the term of the permit is posted on the County's website. The information in the Annual Report Supplement and MS4 Program Plan adequately addresses the permit requirements.

Part I.B.2.a - Construction Site Runoff and Post Construction Runoff from Areas of New Development and Development on Prior Developed Lands

The County implements an Erosion and Sediment Control Program and a Stormwater Management Program that have been determined to be consistent with state law and regulations. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.b - Retrofitting on Prior Developed Lands

The status of the retrofit projects listed in part I.B.1 that are being conducted during this permit term is provided in the Annual Report Supplement. The information included in the summary adequately addresses the permit requirements.

Part I.B.2.c - Roadways

The various Departments / Divisions that are responsible for maintaining roads, streets, and parking lots are aware of proper management goals / objectives. Inventories of County-maintained roads, streets and parking lots have also been developed as well as the stormwater treatment details required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.d - Pesticide, Herbicide, and Fertilizer Application

County-maintained lands have been evaluated to determine where nutrients are applied to more than one contiguous acre and the Departments / Divisions responsible for the County-maintained lands have been made aware of proper management goals / objectives. Summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.e - Illicit Discharges and Improper Disposal

The County continues to implement programs to identify and eliminate illicit discharges. The County also has a program to inspect sanitary sewer system. Community cleanups, litter prevention and collection programs, and development design requirements are in place to reduce floatables. Summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.f - Spill Prevention and Response

The County continues to implement programs to prevent, contain, and respond to spills that may discharge into the MS4. These programs involve cooperation with various Departments / Divisions. The results of the implementation of these programs are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the

programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.g - Industrial and High-Risk Runoff

The County continues to implement a program to identify and control pollutants in stormwater discharges to the MS4 from industrial and high-risk runoff facilities. Summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.h - Stormwater Infrastructure Management

The County continues to implement programs to maintain the County's stormwater infrastructure and to update the accuracy and inventory of the storm sewer system. The Departments / Divisions responsible for County maintained lands are aware of the management goals / objectives and summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.i - County Facilities

County-maintained facilities have been evaluated to determine which ones are High Priority Municipal Facilities and the Departments/Divisions responsible for County facilities are aware of proper management goals / objectives. Summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.j - Public Education / Participation

The various Departments / Divisions in the County implement many public education programs with the goal of increasing the stormwater knowledge of target audiences and changing behavior to result in pollutant reductions. Summaries of the program activities and the audiences reached are listed in the Annual Report Supplement as required by the MS4 Permit.

Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.k - Training

The various Departments / Divisions in the County conduct and makes available to County staff many training opportunities to address the topics required by the MS4 Permit. Summaries of the training opportunities and the number of staff attending are listed in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.l - Water Quality Screening Programs

The County implements both dry and wet weather screening programs in accordance with the requirements of the MS4 permit. Summaries of the implementation details are listed in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.m - Infrastructure Coordination

The Annual Infrastructure Coordination meeting between County and VDOT representatives occurs annually. During the meeting, all topics required by the MS4 Permit were discussed and the meeting summary is included in the Annual Report Supplement as required by the MS4 Permit.

A summary report of the monitoring programs listed under Part I.C

Summaries of the results of the monitoring programs listed under Part I.C are included in the Annual Report Supplement.

A summary of the implementation of each component listed under Part I.D.

The TMDL Action Plans required by Part I.D have been developed and are posted on the County's website. A summary of projects implemented during this reporting period are included in the Annual Report Supplement.

The Specific Reporting Requirements identified in this state permit.

The Specific Reporting Requirements are addressed in the Annual Report Supplements.

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PART I.A.1 AUTHORIZED DISCHARGES

PERMIT LANGUAGE

- 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 Henrico County in Virginia, including Henrico County Public Schools.
- b. The following discharges, whether discharged separately or commingled with municipal stormwater, are also authorized by this state permit for discharge through the MS4:
 - 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;
 - 2) Discharges from construction activities that are regulated under the Virginia Stormwater Management Program (VSMP) (9VAC25-870 et seq.) and authorized by a separate VSMP authority permit or state permit; and
 - 3) The following non-stormwater discharges unless the State Water Control Department 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;

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- g. discharges from potable water sources managed in a manner to avoid instream impact;
- 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 freshwater swimming pool discharges managed in a manner to avoid instream impact;
- r. street and pavement wash waters that do not contain cleaning additives or otherwise managed in a manner to avoid instream impact;
- s. routine external building wash down provided no soaps, solvents, or detergents are used, external building surfaces do not contain hazardous substances, and the wash water is filtered, settled, or similarly treated prior to discharge;
- t. discharges or flows from emergency fire-fighting activities; and
- u. discharges or flows of water for fire prevention or firefighting training activities managed in a manner to avoid instream impact in accordance with § 9.1-207.1 of the Code of Virginia; or
- v. discharges from noncommercial fundraising car washes if the washing uses only biodegradable, phosphate-free, water-based cleaners in accordance

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with §12.2-2114.1 of the Code of Virginia: or

- w. other activities generating discharges identified by the Department as not requiring VPDES authorization.
- 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.2.f). (Spill Prevention and Response). This state 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 III.G of this state permit.

SPECIFIC REPORTING REQUIREMENTS

None specified.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

The authorized discharges described in the MS4 Permit have been incorporated into §10-199 of the Henrico County Code.

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**PART I.A.1
AUTHORIZED DISCHARGES**

There are no Specific Reporting Requirements associated with this part of the MS4 Permit.

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PART I.A.2

PERMITTEE RESPONSIBILITIES

Permit Language

This state permit establishes the specific requirements applicable to the permittee for the term of this state permit. The permittee is responsible for compliance with this state permit. The permittee shall implement and update the MS4 Program Plan (as set forth in Part I.B) to ensure compliance with this state permit. The Department has determined that implementation of the MS4 Program Plan 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 special conditions as set forth in Part I.D of this state permit. Compliance with the requirements of this state 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 violations of the water quality standards.

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 must 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 state permit, responsibility for compliance with this state permit shall remain with the permittee.

In the event the permittee is unable to meet conditions of this state permit due to circumstances beyond the permittee's control, a written explanation of the circumstances that prevented permit compliance shall be submitted to the Department in the annual report. Circumstances beyond the permittee's control may include abnormal climatic conditions; weather conditions that make certain requirements unsafe or impracticable; or unavoidable equipment failures caused by weather conditions or other conditions beyond the reasonable control of the permittee (operator error and failure to properly maintain equipment are not conditions beyond the control of the permittee). The failure to provide adequate program funding, staffing or equipment maintenance shall not be an acceptable explanation for failure to meet permit conditions. The Department will determine, at its sole discretion, whether the reported information will result in an enforcement action. In addition, the permittee must report noncompliance which may adversely affect surface waters or endanger public health in accordance with Part III.I.

HENRICO COUNTY MS4 PROGRAM PLAN

SPECIFIC REPORTING REQUIREMENTS

- Each annual report shall include a current list of roles and responsibilities.
- Each annual report shall include a list of those circumstances of non-compliance outside of the permittee's control.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

The various program elements and tasks necessary to demonstrate compliance with the MS4 Permit are identified in the following parts of this MS4 Program Plan. In addition to those, responsibility for the program elements and tasks necessary to demonstrate compliance with Part I.A.2 of the MS4 Permit are assigned to the following Departments / Divisions of the County:

All Departments / Divisions will review the MS4 Program Plan annually as required by Part I.A.7 of the MS4 Permit to ensure the plan accurately describes the program elements, roles, and responsibilities assigned to the Department / Division.

All Departments / Divisions that maintain County-owned lands will document and maintain records of circumstances of non-compliance outside its control.

Building Inspections

No later than **June 30 of each year**, Building Inspections will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, Building Inspections will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Community Revitalization

No later than **June 30 of each year**, Community Revitalization will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

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No later than **July 31 of each year**, Community Revitalization will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Economic Development Authority (EDA)

No later than **June 30 of each year**, EDA will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, EDA will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Extension Service

No later than **June 30 of each year**, Extension Service will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, Extension Service will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Division of Fire (Fire)

No later than **June 30 of each year**, Fire will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, Fire will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

General Services (DGS)

No later than **June 30 of each year**, DGS will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

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No later than **July 31 of each year**, DGS will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Henricopolis Soil and Water Conservation District (HSWCD)

No later than **June 30 of each year**, HSWCD will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW with a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, HSWCD will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Public Library (Library)

No later than **June 30 of each year**, Library will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW with a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, Library will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Mental Health and Developmental Services (MH/DS)

No later than **June 30 of each year**, MH/DS will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, MH/DS will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

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Planning Department (Planning)

No later than **June 30 of each year**, Planning will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, Planning will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Division of Police (Police)

No later than **June 30 of each year**, Police will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, Police will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Recreation and Parks

No later than **June 30 of each year**, Recreation and Parks will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, Recreation and Parks will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Public Schools (Schools)

No later than **June 30 of each year**, Schools will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, Schools will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

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Public Utilities (DPU)

No later than **June 30 of each year**, DPU will review its roles and responsibilities identified in the MS4 Program Plan and provide DPW a list of any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year**, DPU will identify and provide DPW with a list of circumstances of non-compliance outside its control that occurred during the previous permit year.

Public Works (DPW)

No later than **June 30 of each year**, DPW will review its roles and responsibilities identified in the MS4 Program Plan and identify any necessary revisions for inclusion in the MS4 Program Plan.

No later than **July 31 of each year** DPW will identify circumstances of non-compliance outside its control that occurred during the previous permit year.

DPW will include a compiled list of the roles and responsibilities for each Department / Division identified in the MS4 Program Plan in **each annual report due October 1**.

DPW will include a compiled list of the circumstances of non-compliance outside the control of the Departments / Divisions in **each annual report due October 1**.

HENRICO COUNTY MS4 PROGRAM PLAN

**PART I.A.2
PERMITTEE RESPONSIBILITIES**

Each annual report shall include a current list of roles and responsibilities.

The roles and responsibilities for the appropriate Departments and Divisions have been established and are provided in the applicable part of the MS4 Program Plan. Given the extent of the tasks associated with the MS4 Permit and the numerous Departments and Divisions that have a role in implementing the requirements of the MS4 Permit, the roles and responsibilities have not been repeated here. Please refer to the MS4 Program Plan for the current list of roles and responsibilities.

Each annual report shall include a list of those circumstances of non-compliance outside of the permittee's control.

Circumstance of Non-Compliance Outside County's Control From January 1, 2024 through June 30, 2024	Date
None	N/A

**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.A.2**

**ANNUAL REPORT SUPPLEMENT
JANUARY 16, 2024 THROUGH JUNE 30, 2024**

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.3 LEGAL AUTHORITY

PERMIT LANGUAGE

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 state permit. The legal authority shall enable the permittee to:

- a) Control the contribution of pollutants to the MS4;
- b) Prohibit illicit discharges to the MS4;
- c) Control the discharge of spills and the dumping or disposal of materials other than stormwater (e.g., industrial and commercial wastes, trash, used motor vehicle fluids, leaf litter, grass clippings, animal wastes, etc.) into the MS4;
- d) Require compliance with conditions in ordinances, permits, contracts, inter-jurisdictional agreements, or orders; and
- 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 the MS4.

The permittee shall review and update its ordinances and other legal authorities such as permits, orders, contracts, and inter-jurisdictional agreements as necessary to continue providing adequate legal authority to control discharges to and from the MS4.

SPECIFIC REPORTING REQUIREMENTS:

- Each annual report shall provide a list of any updates to applicable ordinances, permits, orders, contracts, and/or agreements performed over the reporting year.

HENRICO COUNTY MS4 PROGRAM PLAN

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.A.3 of the MS4 Permit are assigned to the following Departments / Divisions of the County:

All Departments / Divisions will utilize the 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 state permit.

Public Works (DPW)

DPW will review the County ordinances and policies periodically and pursue revisions as needed to ensure that local requirements are consistent with the following state and federal laws and regulations:

- the National Pollutant Discharge Elimination System and the Virginia Pollutant Discharge Elimination System requirements developed under the authority of §402(p) of the Clean Water Act;
- the Virginia Erosion and Sediment Control Law (§62.1-44.15:51 et seq. of the Code of Virginia);
- the Virginia Erosion and Stormwater Management Regulation (9VAC25-875 et seq)
- the Virginia Stormwater Management Act (§62.1-44.15:24 et seq. of the Code of Virginia);
- the Chesapeake Bay Preservation Act (§ 62.1-44.15.67 et seq. of the Code of Virginia); and
- the Chesapeake Bay Preservation Area Designation and Management Regulations (9VAC25-830 et seq.)

DPW will review the County ordinances and policies periodically and pursue revisions as needed to ensure that County staff can:

- 1) Control the contribution of pollutants to the MS4;
- 2) Prohibit illicit discharges to the MS4;
- 3) Control the discharge of spills and the dumping or disposal of materials other than stormwater (e.g. industrial and commercial wastes, trash, used motor vehicle fluids, leaf litter, grass clippings, animal wastes, etc.) into the MS4;

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- 4) Require compliance with conditions in ordinances, permits, contracts, inter-jurisdictional agreements, or orders; and,
- 5) Carry out all inspections, surveillance and monitoring procedures necessary to determine compliance and noncompliance with permit conditions including the prohibition on illicit discharges to the MS4.

DPW will review the County ordinances and policies periodically and pursue revisions as needed to ensure local requirements provide adequate authority to control discharges to and from the MS4. DPW will provide a list of any updates to the applicable ordinances, permits, orders, contracts, and/or agreements performed over the reporting year in each annual report due **October 1**.

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PART I.A.3 LEGAL AUTHORITY

Each annual report shall provide a list of any updates to applicable ordinances, permits, orders, contracts, and/or agreements performed over the reporting year.

Updates to applicable ordinances, permits, orders, contracts, and/or agreements from January 1, 2024 through June 30, 2024
Ch 10 revisions incorporate new CGP
MMA Environmental contract renewal

**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.A.3**

**ANNUAL REPORT SUPPLEMENT
JANUARY 16, 2024 THROUGH JUNE 30, 2024**

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.4 MS4 PROGRAM RESOURCES

PERMIT LANGUAGE

The permittee shall submit to the Department a copy of the permittee's fiscal year's budget including its proposed capital and operation and maintenance expenditures necessary to accomplish the activities required by this state permit. The permittee shall describe its method of funding the stormwater program with the copy of the fiscal year budget.

SPECIFIC REPORTING REQUIREMENTS

- **A copy of the permittee's 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.**

MS4 PROGRAM ELEMENTS

The County will submit a copy of each fiscal year's budget including approved capital and operation funding necessary to accomplish the activities required by the MS4 Permit with each annual report.

The County will also describe the sources of funding used to comply with the requirements of the MS4 Program with each annual report.

Economic Development Authority (EDA)

No later than July 31 of each year, **EDA** will provide DPW with:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan.

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Division of Fire (Fire)

No later than July 31 of each year, **Fire** will provide DPW with:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan.

General Services (DGS)

No later than July 31 of each year, **DGS** will provide DPW with:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan.

Public Library (Library)

No later than July 31 of each year, **Library** will provide DPW with:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan.

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Mental Health and Developmental Services (MH/DS)

No later than July 31 of each year, **MH/DS** will provide DPW with:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan.

Division of Police (Police)

No later than July 31 of each year, **Police** will provide DPW with:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan.

Recreation and Parks

No later than July 31 of each year, **Recreation and Parks** will provide DPW with:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan

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Public Schools (Schools)

No later than July 31 of each year, **Schools** will provide DPW with:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan.

Public Utilities (DPU)

No later than July 31 of each year, **DPU** will provide DPW with:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan.

Public Works (DPW)

No later than **October 1** of each year, **DPW** will compile:

1. its current fiscal year's approved operating and capital budgets;
2. the approved operating funding necessary to comply with the requirements of the MS4 Program Plan;
3. the approved capital funding necessary to comply with the requirements of the MS4 Program Plan; and
4. a description of the sources of funding used to comply with the requirements of the MS4 Program Plan.

with the budget information submitted by the Departments/Divisions listed above.

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DPW will include the compiled budget information in the annual reports due on **October 1** of each year.

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.4 MS4 PROGRAM RESOURCES

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.

The County's Approved Budget for Fiscal Year 2023 - 2024 can be found at [FY24 Approved Budget - Full book.pdf](#). Given the size of the document, the budget has not been included in this Annual Report Supplement.

N/A	Approved Overall Budget	Approved Funding for MS4 Program Compliance	Source(s) of Funding
CAPITAL	\$117,906,094	\$2,733,331.14	General Fund Enterprise Funds
OPERATION AND MAINTENANCE	\$200,718,287	\$10,767,257	General Fund Internal Service Fund Enterprise Funds

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.5 PERMIT MAINTENANCE FEES

PERMIT LANGUAGE

Permit maintenance fees shall be paid in accordance with Part XIII of the VSMP regulations (9VAC25-870-700 et seq.).

SPECIFIC REPORTING REQUIREMENTS

- **A statement regarding payment of the applicable MS4 permit maintenance fee shall be included with each annual report.**

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.A.5 of the MS4 Permit are assigned to the following Departments / Divisions of the County:

Public Works (DPW)

DPW will pay the required permit maintenance fee in accordance with Part XIII of the VESMP regulations.

DPW will include a statement regarding payment of the applicable MS4 Permit maintenance fee in each annual report due **October 1**.

HENRICO COUNTY MS4 PROGRAM PLAN

**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.A.5**

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.5

PERMIT MAINTENANCE FEES

A statement regarding payment of the applicable MS4 permit maintenance fee shall be included with each annual report.

The most recent confirmed MS4 permit maintenance fee payment information is included below. Due to the transition to a fiscal reporting year, the invoice for 2024 has recently been received from Department of Environmental Quality, and payment is being processed.

A check (check # 1694197, dated August 24, 2023) for the MS4 Permit Maintenance Fee (\$8,800.00) was submitted on August 24, 2023 to:

Virginia Department of Environmental Quality
Treasurer or Virginia - DEQ
P. O. Box 1104
Richmond, VA 23218

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.6 MS4 PROGRAM PLAN

PERMIT LANGUAGE

MS4 Program Plan The permittee shall maintain, implement and enforce an MS4 Program Plan accurately documenting the MS4 Program including all additions, changes and modifications. For the purposes of this state permit, the MS4 Program Plan is considered a single document, but may consist of separate documents (e.g., dry weather screening plans, wet weather monitoring plans, TMDL Action Plans, annual reports). Policies, ordinances, strategies, checklists, watershed plans and other 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).

The permittee shall update the MS4 Program Plan annually 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.

The most recent MS4 Program Plan shall be maintained on the permittee's website and provided in at least one other location easily accessible to the public.

SPECIFIC REPORTING REQUIREMENTS

- **The annual report shall include a summary of any updates to the MS4 Program Plan made during the reporting year.**

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.A.6 of the MS4 Permit is assigned to the following Departments / Divisions of the County:

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All Departments / Divisions will develop appropriate updates as identified in the MS4 Program Plan to describe compliance with the requirements of the MS4 Permit.

Public Works (DPW)

DPW will compile and submit a summary of any updates to the MS4 Program Plan made during the reporting period that describes implementation of the MS4 Program Plan and meet the conditions described in Part I.A.6 of the MS4 Permit with each annual report due **October 1**.

DPW will maintain the most up-to-date version of the MS4 Program Plan on its website within 30 days of any updates to the plan.

DPW will provide public access to the MS4 Program Plan during normal business hours in the offices of DPW.

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.6 MS4 PROGRAM PLAN

The annual report shall include a summary of any updates to the MS4 Program Plan made during the reporting year.

The current MS4 Program Plan can be found at:

<https://henrico.gov/works/engineering-environmental-services/2015-ms4-permit-and-ms4-program-plan/>

Updates made to the MS4 Program Plan during the reporting period of January 1, 2024 and June 30, 2024	Permit Section
Revisions to §10-199 of the Henrico County Code to incorporate additional and changes to authorized discharges	Part I.A.1
Dates have been updated to reflect the new fiscal year reporting period	Part I.A.2
Updated applicable regulations listed	Part I.A.3
Dates have been updated to reflect the new fiscal year reporting period	Part I.A.3
Updated language to reflect specific reporting requirements	Part I.A.3
Dates have been updated to reflect the new fiscal year reporting period	Part I.A.4
Updated language to reflect specific reporting requirements	Part I.A.5
Dates have been updated to reflect the new fiscal year reporting period	Part I.A.5
Updated language to reflect specific reporting requirements and permit language	Part I.A.6
Dates have been updated to reflect the new fiscal year reporting period	Part I.A.6
Dates have been updated to reflect the new fiscal year reporting period	Part I.A.7
Dates have been updated to reflect the new fiscal year reporting period and the permit cycle	Part I.B.1

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Updates made to the MS4 Program Plan during the reporting period of January 1, 2024 and June 30, 2024	Permit Section
Updated language to reflect specific reporting requirements	Part I.B.I

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Updates made to the MS4 Program Plan during the reporting period of January 1, 2024 and June 30, 2024	Permit Section
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.a
Updated language to reflect specific reporting requirements	Part I.B.2.a
Dates have been updated to reflect the new fiscal year reporting period and the permit cycle	Part I.B.2.b
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.c
Updated language to reflect specific reporting requirements	Part I.B.2.c
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.d
Updated language to reflect specific reporting requirements	Part I.B.2.d
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.e
Updated language to reflect specific reporting requirements & permit requirements	Part I.B.2.e
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.f
Updated language to reflect specific reporting requirements & permit requirements	Part I.B.2.f
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.g
Updated language to reflect specific reporting requirements & permit requirements	Part I.B.2.g
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.h
Updated language to reflect specific reporting requirements & permit requirements	Part I.B.2.h
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.i
Updated language to reflect specific reporting requirements & permit requirements	Part I.B.2.i
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.j
Updated language to reflect specific reporting requirements & permit requirements	Part I.B.2.j

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Updates made to the MS4 Program Plan during the reporting period of January 1, 2024 and June 30, 2024	Permit Section
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.k
DGS updated program plan language	Part I.B.2.k
Updated language to reflect specific reporting requirements & permit requirements	Part I.B.2.k

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Updates made to the MS4 Program Plan during the reporting period of January 1, 2024 and June 30, 2024	Permit Section
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.l
Updated language to reflect specific reporting requirements & permit requirements	Part I.B.2.l
Dates have been updated to reflect the new fiscal year reporting period	Part I.B.2.m
Dates have been updated to reflect the new fiscal year reporting period	Part I.C.1
Updated language to reflect specific reporting requirements & permit requirements	Part I.C.1
Dates have been updated to reflect the new fiscal year reporting period	Part I.C.2
Updated language to reflect specific reporting requirements & permit requirements	Part I.C.2
Dates have been updated to reflect the new fiscal year reporting period	Part I.D.1
Updated language to reflect specific reporting requirements & permit requirements	Part I.D.1
Dates have been updated to reflect the new fiscal year reporting period	Part I.D.2
Updated language to reflect specific reporting requirements & permit requirements	Part I.D.2
Added this section to the Program Plan	Part II
Updated Part II to Part III; included current language	Part III
Updated language to match permit language	Definitions

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.7

MS4 PROGRAM REVIEW AND UPDATES

PERMIT LANGUAGE

MS4 Program Review: The permittee will review the current MS4 Program Plan annually, in conjunction with the preparation of the annual report required under Part I.E of this state permit.

a) ***MS4 Program Updates and Modifications:***

Modifications to the MS4 Program Plan are expected throughout the life of this state permit as part of the iterative process to reduce pollutant loading and protect water quality. As such, modifications made in accordance with this state permit as a result of the iterative process do not require modification of this state permit unless the Department determines the changes meet the criteria referenced in 9VAC25-870-630 or 9VAC25-870-650.

Updates and modifications to the MS4 Program Plan may be made during the life of the permit in accordance with the following procedures:

- 1) Adding (but not eliminating or replacing) components, controls, or requirements to the MS4 Program Plan may be made by the permittee at any time. Additions shall be reported as part of the annual report.
- 2) Updates and modifications to specific standards and specifications, schedules, operating procedures, ordinances, manuals, checklists and other documents routinely evaluated and modified are authorized under this state permit provided that the updates and modifications are performed in a manner (i) that is consistent with the conditions of this state permit, (ii) that ensure public notice and participation requirements established in this state permit are followed, and (iii) that the updates and modifications are documented in the annual report.
- 3) Replacing, or eliminating without replacement, any ineffective or infeasible strategies, policies and Best Management Practices (BMPs) specifically identified in this state permit with alternate strategies, policies and BMPs may be requested at any time. Such requests shall include the following:
 - (a) 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;

HENRICO COUNTY MS4 PROGRAM PLAN

- (b) Expectations on the effectiveness of the replacement BMPs, strategies, or policies;
- (c) An analysis of how the replacement BMPs are expected to achieve the goals of the BMPs to be replaced;
- (d) A schedule for implementing the replacement BMPs, strategies and policies; and
- (e) 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.

Requests or notifications shall be made in writing to the Department and signed in accordance with 9VAC25-870-370 of the VSMP regulations. Modification to the MS4 Program Plan shall become effective and enforceable upon written approval from the Department. Major modifications to the MS4 Program Plan as defined in 9VAC25-870-10 may require that the permit be reopened and modified pursuant to 9VAC25-870-630.

b) ***MS4 Program Updates Requested by the Department of Environmental Quality:***

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 Plan to assure compliance with the statutory requirements of the Virginia Stormwater Management Act and associated regulations and to:

- 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
- 3) Include such other conditions necessary to comply with State or Federal statutory or regulatory requirements.

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.

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SPECIFIC REPORTING REQUIREMENTS

- All modifications and proposed modifications shall be reported in accordance with this section of the permit.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.A.7 of the MS4 Permit is assigned to the following Departments / Divisions of the County:

All Departments / Divisions will review the MS4 Program Plan annually in conjunction with the preparation of the annual report to identify any suggested revisions.

Building Inspections

No later than **June 30 of each year**, Building Inspections will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Community Revitalization

No later than **June 30 of each year**, Community Revitalization will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Economic Development Authority (EDA)

No later than **June 30 of each year**, EDA will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Extension Service

No later than **June 30 of each year**, Extension Service will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

HENRICO COUNTY MS4 PROGRAM PLAN

Division of Fire (Fire)

No later than **June 30 of each year**, Fire will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

General Services (DGS)

No later than **June 30 of each year**, DGS will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Henricopolis Soil and Water Conservation District (HSWCD)

No later than **June 30 of each year**, HSWCD will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Public Library (Library)

No later than **June 30 of each year**, Library will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Mental Health and Developmental Services (MH/DS)

No later than **June 30 of each year**, MH/DS will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Planning Department (Planning)

No later than **June 30 of each year**, Planning will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Division of Police (Police)

No later than **June 30 of each year**, Police will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Recreation and Parks (2024)

No later than **June 30 of each year**, Recreation and Parks will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

HENRICO COUNTY MS4 PROGRAM PLAN

Public Schools (Schools)

No later than **June 30 of each year**, Schools will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Public Utilities (DPU)

No later than **June 30 of each year**, DPU will review the MS4 Program Plan and provide DPW a list of any suggested revisions for inclusion in the MS4 Program Plan.

Public Works (DPW)

No later than **June 30 of each year**, DPW will review the MS4 Program Plan and identify any suggested revisions for inclusion in the MS4 Program Plan.

DPW will make necessary revisions to the MS4 Program Plan to reflect *additional components, controls, or requirements* as identified by the Departments / Divisions.

DPW will make necessary revisions to the MS4 Program Plan to reflect *updates and modifications to specific standards and specifications, schedules, operating procedures, ordinances, manual, checklists and other documents routinely modified* as identified by the Departments / Divisions provided the revisions are consistent with the MS4 Permit and applicable public notice and participation requirements of the MS4 Permit are followed.

DPW will seek DEQ's approval in accordance with the requirements of Part I.A.7.a)3) of the MS4 permit for any *proposed replacement or elimination of any strategy, policy or program element specifically identified in the MS4 Permit*.

DPW will make necessary revisions to the MS4 Program Plan to reflect any DEQ-approved replacement or elimination of any strategy, policy or program element specifically identified in the MS4 Permit.

DPW will include a compiled list of proposed and implemented MS4 Program Plan modifications in **each annual report due October 1**.

HENRICO COUNTY MS4 PROGRAM PLAN

**PART I.A.7
MS4 PROGRAM REVIEW AND UPDATES**

All modifications and proposed modifications shall be reported in accordance with this section of the permit.

The current MS4 Program Plan can be found at <http://henrico.us/works/engineering-environmental-services/2015-ms4-permit-and-ms4-program-plan/>.

**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.A.7
ANNUAL REPORT SUPPLEMENT
JANUARY 16, 2024 THROUGH JUNE 30, 2024**

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.B.1 PLANNING

PERMIT LANGUAGE

No later than 12-months after the effective date of this state permit, the permittee shall submit to the Department a stormwater retrofit project summary of potential stormwater management projects to be completed during the term of the permit. Projects addressing stormwater quantity may be included if there is a water quality benefit to the project. At a minimum, the permittee shall address the following for each project in the summary: type of project or BMP, number of acres which the BMP treats, impervious and pervious acreage treated by the potential project, condition of the downstream channel, amount of total pollutant reduction, feasibility for implementation, and estimated cost of implementation. The summary shall include a prioritized list of the identified projects for consideration of implementation.

The permittee shall continue to seek public comment in development of the plans. A copy of the completed plans shall be placed on the permittee's website no later than 30 days after any updates are made.

SPECIFIC REPORTING REQUIREMENTS

- **The permittee shall provide the Department a current web link to stormwater retrofit projects no later than 12 months after the effective date of this state permit.**

MS4 PROGRAM ELEMENTS, ROLES AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.1 of the MS4 Permit are assigned to the following Departments / Divisions of the County:

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Public Works (DPW)

DPW will develop a stormwater retrofit project summary that will include a list of projects to be completed between January 16, 2024 and January 15, 2029. The stormwater retrofit project summary will include the following for the projects included in the summary:

1. the type of project or BMP;
2. the number of acres treated by the BMP;
3. the impervious and pervious acres treated by the BMP;
4. the condition of the receiving system downstream of the BMP;
5. the pollutant reductions (P, N, and TSS) achieved by the BMP;
6. an assessment of the feasibility for constructing/installing the BMP; and
7. the estimated cost of implementing the BMP.

The stormwater retrofit project summary will include a prioritization of the projects included in the summary.

The stormwater retrofit project summary will be posted on the County's website prior to finalization to provide an opportunity for public input and comment no later than **January 16, 2025**.

DPW will provide a current web link to stormwater management projects with the annual report due **October 1, 2024**.

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.B.1

PLANNING

The permittee shall provide the Department a current web link to stormwater management projects no later than 12 months after the effective date of this state permit.

The stormwater management retrofit project summary can be found at <https://henrico.gov/assets/Stormwater-Retrofit-Projects-Summary-for-Web-Sep-2025.pdf>

**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.B.1**

**ANNUAL REPORT SUPPLEMENT
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PART I.B.2.a

MS4 PROGRAM IMPLEMENTATION CONSTRUCTION SITE RUNOFF AND POST CONSTRUCTION RUNOFF FROM AREAS OF NEW DEVELOPMENT AND DEVELOPMENT ON PRIOR DEVELOPED LANDS

PERMIT LANGUAGE

1. 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.*
2. 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.

SPECIFIC REPORTING REQUIREMENTS

- Each annual report shall contain the number of regulated land disturbing activities approved and the total number of acres disturbed.
- Each annual report shall contain the number of land disturbing activity inspections conducted and the number and type of each enforcement action taken.
- The initial annual report shall include the permittee's strategy to address maintenance of stormwater management controls that are designed to

HENRICO COUNTY MS4 PROGRAM PLAN

treat stormwater runoff solely from the individual residential lot on which they are located.

- **The initial annual report shall include a list of all known land disturbing projects that qualify under the ‘Grandfathering’ provision of the VSMP regulations found at 9VAC25-870-48.**
- **Each annual report shall include a summary of actions taken by the permittee to implement Part I.B.2.a)1) and 2) of this state permit.**

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.2.a of the MS4 Permit are assigned to the following Departments / Divisions of the County:

All Departments / Divisions will implement the local erosion and sediment control (ESC) and stormwater management (SWM) programs on land disturbing activities on their facilities consistent with the applicable laws and regulations.

Public Works (DPW)

DPW will administer and enforce the local ESC and SWM programs on land disturbing activities in the County consistent with the applicable laws and regulations.

The following is a list of criteria that are more stringent than those required under 9VAC25-840 et seq. and/or 9VAC25-870 et seq. (now 9VAC25-875) or that have been adopted in accordance with § 62.1-44.15:65 and/or § 62.1-44.15:33 of the Code of Virginia:

- Stormwater detention facilities are required to be provided as a part of plans of development in those watersheds where downstream flooding problems are known to occur or if existing homes are located within the 50-year flood plain. These detention facilities must be designed so that the post-developed peak flow from the site for the 50-year storm 24-hour event does not exceed the predeveloped peak flow rate for the 10-year 24-hour storm event. However, the standards do not apply to (i) subdivisions or plans of development for single family, detached residential structures, (ii) where it is demonstrated that there are no

HENRICO COUNTY MS4 PROGRAM PLAN

existing homes located within the 50-year floodplain downstream of the proposed development, or (iii) linear development projects.

- SWM facilities must meet minimum front yard setback requirements from the public right of way. The setback for the SWM facility is measured as the distance from the highest continuous contour elevation inside the SWM facility to the ultimate right of way line. These setbacks are identified below:
 - a. Residential Zoned Districts (all “R” Districts including A-1) - The SWM facility must honor the setback specified for the primary dwelling.
 - b. Non-residential Zoned Districts - The SWM facility must honor a minimum setback of 25 feet from the ultimate right of way.
- A distance equivalent to the rear yard setback in residential development must be provided from the rear of the buildable area to the highest continuous contour elevation inside the SWM facility.
- Regional wet ponds and existing ponds are not allowed in residential developments unless the following conditions are met:
 - a. Regional wet ponds and existing ponds are not allowed in residential developments unless the following conditions are met:
 - b. There must be a minimum of 50 feet between any buildable area and the normal pool elevation of the pond,
 - c. All access and easement requirements must be met,
 - d. The pond must be an amenity for the entire subdivision
- SWM facilities are not allowed within the public right of way limits unless specifically approved by the Director of Public Works.
- The SWM facility must be located as follows:
 - a. The highest continuous contour on the inside of the SWM facility must be located at least 25’ from the ultimate right-of-way in the side yard in residential development.
 - b. The SWM facility must be located outside of all transitional or proffered buffer areas or planting strip easements.
 - c. The SWM facility must be located to the rear of all single-family residential units or in common area that is controlled and maintained by a Homeowners Association
- The treatment volume (Tv) of any SWM facility may not be stored in any County maintained easements or rights-of-way.

HENRICO COUNTY MS4 PROGRAM PLAN

- All dry detention ponds (quantity control only) must have paved low-flow channels between all inlet points and the primary outlet structure.

No later than **July 31** of each year, DPW will develop a report that includes the number of regulated land disturbing activities authorized for construction during the permit year and the total acreage of land disturbance associated with those activities for inclusion in the annual reports due **October 1**.

No later than **July 31** of each year of each year, DPW will develop a report that includes the number of land disturbing activity inspections conducted and the number of each type of enforcement action taken during the permit year for inclusion in the annual reports due **October 1**.

No later than **July 31** of each year, DPW will summarize the actions (revising ordinances, hiring additional staff, revising department duties, etc.) taken each permit year to implement Part I.B.2.a)1) and 2) of this state permit for inclusion in the annual reports due **October 1**.

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PART I.B.2.a

**MS4 PROGRAM IMPLEMENTATION CONSTRUCTION SITE
RUNOFF AND POST CONSTRUCTION
RUNOFF FROM AREAS OF NEW DEVELOPMENT AND
DEVELOPMENT ON PRIOR DEVELOPED LANDS**

Each annual report shall contain the number of regulated land disturbing activities approved and the total number of acres disturbed.

Number of Regulated Land Disturbing Activities Approved between January 1, 2024 and June 30, 2024	Total Number of Acres Disturbed
32	445.24

Each annual report shall contain the number of land disturbing activity inspections conducted and the number and type of each enforcement action taken.

ESC and SWM Inspection and Enforcement Actions conducted between January 1, 2024 June 30, 2024	Number of Actions
ESC Inspection - Complete	2950
ESC Inspection - Follow-Up	319
Pre-Construction Meeting	71
SWPPP - Complete	307
SWPPP - Follow-Up	44
Notice to Comply	113
Stop Work Order	18

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The initial annual report shall include the permittee’s strategy to address maintenance of stormwater management controls that are designed to treat stormwater runoff solely from the individual residential lot on which they are located.

Stormwater management controls that treat stormwater runoff solely from the individual lot on which they are located are not allowed in the County. This prohibition was implemented many years ago and there are no stormwater management controls on individual residential lots that treat stormwater runoff solely from the individual residential lot.

The initial annual report shall include a list of all known land disturbing projects that qualify under the ‘Grandfathering’ provision of the VSMP regulations found at 9VAC25-870-48.

Land Disturbing Projects considered "Grandfathered" in accordance with 9VAC25-870-48
Henrico Landfill #3 Stream Relocation
Creighton Road Improvements
Lakeside Landing
Home 2 Suites
Towneplace Suites at Tom Leonard Dr
Tru by Hilton @ Independence Park Dr
Sligo Park

Each annual report shall include a summary of actions taken by the permittee to implement Part I.B.2.a)1) and 2) of this state permit.

No actions such as additional staff, revised roles/responsibilities, etc. were taken between January 1, 2024 and June 30, 2024, to implement the local ESC and SWM programs.

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PART I.B.2.a
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PART I.B.2.b

MS4 PROGRAM IMPLEMENTATION RETROFITTING ON PRIOR DEVELOPED LANDS

PERMIT LANGUAGE

From the list of stormwater management projects included in the analysis required in Part I.B.1, the permittee shall complete at least eight (8) projects no later than the expiration date of this state permit. Projects implemented to meet the requirements of Part I.D of this state permit (TMDL Action Plan and Implementation for the Chesapeake Bay Special Condition or TMDL Action Plans other than the Chesapeake Bay TMDL) may be used to meet the requirements of this special condition.

For retrofit projects that do not serve to meet the requirements of Part I.D, the permittee shall submit a summary of projects implemented during the reporting period with each annual report including type of land use being retrofitted, retrofit performed, completion date or anticipated completion date, total acreage retrofitted, total impervious and pervious acreage, and location by latitude and longitude (in degrees, minutes and seconds).

SPECIFIC REPORTING REQUIREMENTS

- Each annual report shall include a status update for those projects for which implementation began during the reporting period.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.2.b of the MS4 Permit are assigned to the following Departments / Divisions of the County:

Public Works (DPW)

DPW will include a project summary / status update for each project for which implementation began during the reporting period in **each annual report due October 1.**

HENRICO COUNTY MS4 PROGRAM PLAN

DPW will complete at least eight (8) projects from the list required by Part I.B.1 **no later than January 15, 2029.**

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PART I.B.2.b

**MS4 PROGRAM IMPLEMENTATION
RETROFITTING ON PRIOR DEVELOPED LANDS**

Each annual report shall include a status update for those projects for which implementation began during the reporting period.

**Retrofit Projects for which Implementation* began
between January 1, 2024 and June 30, 2024**

None

*For purposes of this reporting requirement, implementation means the construction or installation of the retrofit project.

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PART I.B.2.c MS4 PROGRAM IMPLEMENTATION ROADWAYS

PERMIT LANGUAGE

Streets, roads, and parking lots maintained by the permittee shall continue to be operated and maintained in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities.

- 1) The permittee shall continue to implement its street cleaning program and shall either (a) develop and implement street cleaning program with metrics documenting implementation of a street cleaning program to clean the highest achievable lane miles based on current resources and historical records for approval by the department within 12 months or (b) clean a minimum of 20% of permittee owned or maintained street lane miles with curb and gutter during each reporting year reaching the equivalent of 100% of permittee owned or maintained street lane miles by the end of the permit term.
- 2) The permittee shall maintain an accurate list of permittee-maintained roads, streets, and parking lots that includes the street name, the miles of roadway not treated by BMPs, and miles of roadway treated with BMPs.
- 3) The permittee shall implement written protocols for permittee-maintained road, street, and parking lot maintenance, equipment maintenance, and material storage designed to minimize pollutant discharge.
- 4) Within 24 months of permit issuance, the permittee shall develop or review and update, if necessary, its existing procedures for snow and ice management, as well as identify opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any permittee-maintained parking lots, roadways, and sidewalks or other paved surfaces.
- 5) Materials utilized for deicing and sanding activities shall remain covered from precipitation until application.

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- 6) The permittee shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks or other paved surfaces.

SPECIFIC REPORTING REQUIREMENTS

- The permittee shall include a description of the permittee's street cleaning program including the total number of miles, the number of miles cleaned each year and the total cleaned cumulatively since permit issuance in each annual report.
- The permittee shall include an updated version of the written protocols identified in Part I.B.2.c)2) if any changes are made during the reporting year.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.2.c of the MS4 Permit is assigned to the following Departments / Divisions of the County:

All Departments / Divisions will continue to operate and maintain streets, roads, and parking lots in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities. Materials utilized for deicing and sanding activities shall remain covered from precipitation until application. Deicing materials containing urea or other forms of nitrogen or phosphorus shall not be applied to parking lots, roadways, and sidewalks or other paved surfaces. Opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any Department / Division maintained parking lots, roadways, and sidewalks or other paved surfaces will be identified.

Economic Development Authority (EDA)

Streets, roads, and parking lots maintained by EDA shall continue to be operated and maintained in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities.

Materials utilized for deicing and sanding activities shall remain covered from

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precipitation until application.

EDA shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks or other paved surfaces.

EDA will conduct sweeping of its roads, streets and parking lots where sand and chemicals are applied.

EDA will apply good housekeeping and pollution prevention practices for its roads, streets and parking lots.

EDA will maintain an accurate list of EDA-maintained roads, streets, and parking lots that includes the street name, the miles of roadway not treated by BMPs, and miles of roadway treated with BMPs.

No later than **January 1, 2026**, EDA will develop or review and update, if necessary, its existing procedures for snow and ice management, as well as identify opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any EDA-maintained parking lots, roadways, and sidewalks or other paved surfaces.

EDA will submit its written protocols to DPW no later than **July 31, 2026** for inclusion in the annual report due **October 1, 2026**. EDA will include the written protocols with the annual report if any subsequent updates are made during the reporting year.

General Services (DGS)

Streets, roads, and parking lots maintained by DGS shall continue to be operated and maintained in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities.

Materials utilized for deicing and sanding activities shall remain covered from precipitation until application.

DGS shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks or other paved surfaces.

DGS will conduct sweeping of its roads, streets and parking lots where sand and chemicals are applied.

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DGS will apply good housekeeping and pollution prevention practices for its roads, streets and parking lots.

DGS will maintain an accurate list of DGS-maintained roads, streets, and parking lots that includes the street name, the miles of roadway not treated by BMPs, and miles of roadway treated with BMPs.

No later than **January 1, 2026**, DGS will develop or review and update, if necessary, its existing procedures for snow and ice management, as well as identify opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any DGS-maintained parking lots, roadways, and sidewalks or other paved surfaces.

DGS will submit its written protocols to DPW no later than **July 31, 2026** for inclusion in the annual report due **October 1, 2026**. DGS will include the written protocols with the annual report if any subsequent updates are made during the reporting year.

Mental Health and Development Services (MH/DS)

Streets, roads, and parking lots maintained by MH/DS shall continue to be operated and maintained in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities.

Materials utilized for deicing and sanding activities shall remain covered from precipitation until application.

MH/DS shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks or other paved surfaces.

MH/DS will conduct sweeping of its roads, streets and parking lots where sand and chemicals are applied.

MH/DS will apply good housekeeping and pollution prevention practices for its roads, streets and parking lots.

MH/DS will maintain an accurate list of MH/DS-maintained roads, streets, and parking lots that includes the street name, the miles of roadway not treated by BMPs, and miles of

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roadway treated with BMPs.

No later than **January 1, 2026**, MH/DS will develop or review and update, if necessary, its existing procedures for snow and ice management, as well as identify opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any MH/DS-maintained parking lots, roadways, and sidewalks or other paved surfaces.

MH/DS will submit its written protocols to DPW no later than **July 31, 2026**, for inclusion in the annual report due **October 1, 2026**. MH/DS will include the written protocols with the annual report if any subsequent updates are made during the reporting year.

Recreation and Parks (2024)

Streets, roads, and parking lots maintained by R&P shall continue to be operated and maintained in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities.

Recreation and Parks (R&P) will work to minimize the discharge of pollutants from the R&P maintained roads, streets and parking lots.

R&P staff or hired contractor(s) shall not apply any deicing agent containing urea, salt or other forms of nitrogen or phosphorus to roads, streets, parking lots, sidewalks or other paved surfaces we own.

R&P staff or hired contractor(s) will conduct sweeping of its roads, streets, parking lots and any other paved surfaces we own where sand and chemicals are applied.

Recreation and Parks will maintain an accurate list of Recreation and Parks-maintained roads, streets, and parking lots that includes the street name, the miles of roadway not treated by BMPs, and miles of roadway treated with BMPs.

No later than **January 1, 2026**, Recreation and Parks will develop or review and update, if necessary, its existing procedures for snow and ice management, as well as identify opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any Recreation and Parks maintained parking lots, roadways, and sidewalks or other paved surfaces.

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Recreation and Parks will submit its written protocols to DPW no later than **July 31, 2026** for inclusion in the annual report due October 1, 2026. Recreation and Parks will include the written protocols with the annual report if any subsequent updates are made during the reporting year.

Public Schools (Schools)

Schools will continue to operate and maintain its streets, roads, and parking lots in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities. Materials utilized for deicing and sanding activities shall remain covered from precipitation until application. Deicing materials containing urea or other forms of nitrogen or phosphorus shall not be applied to parking lots, roadways, and sidewalks or other paved surfaces.

Schools will maintain an accurate list of Schools-maintained roads, streets, and parking lots that includes the street name, the miles of roadway not treated by BMPs, and miles of roadway treated with BMPs.

No later than **January 1, 2026**, Schools will develop or review and update, if necessary, its existing procedures for snow and ice management, as well as identify opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any Schools-maintained parking lots, roadways, and sidewalks or other paved surfaces.

Schools will submit its written protocols to DPW no later than **July 31, 2026** for inclusion in the annual report due October 1, 2026. Schools will include the written protocols with the annual report if any subsequent updates are made during the reporting year.

Public Utilities (DPU)

DPU will work to minimize the discharge of pollutants from the DPU-maintained roads, streets and parking lots.

DPU staff or hired contractor(s) shall not utilize deicing agents or sand on roads, street or parking lots we own.

DPU staff or hired contractor(s) shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to roads, streets or parking lots in which we own.

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In order to meet our requirement of minimizing the discharge of pollutants from the DPU-maintained roads, streets and parking lots, DPU will follow the Standard Operating Procedures (SOP) that will be developed and implemented prior to March 31, 2018. The SOP will address both asphalt and gravel surfaces.

DPU has implemented a SWPPP at our Woodman Road Operations Facility that will control the storage of materials to minimize the discharge of pollutants from those storage areas. All other areas not controlled by a SWPPP will be controlled by the SOP mentioned above.

DPU will maintain an accurate list of DPU-maintained roads, streets, and parking lots that includes the street name, the miles of roadway not treated by BMPs, and miles of roadway treated with BMPs.

No later than **January 1, 2026**, DPU will develop or review and update, if necessary, its existing procedures for snow and ice management, as well as identify opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any DPU-maintained parking lots, roadways, and sidewalks or other paved surfaces.

DPU will submit its written protocols to DPW no later than **July 31, 2026** for inclusion in the annual report due **October 1, 2026**. DPU will include the written protocols with the annual report if any subsequent updates are made during the reporting year.

Public Works (DPW)

The details of the street cleaning program will be submitted for approval by the Department by **January 16, 2025**.

DPW will continue to operate and maintain streets, roads, and parking lots in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities. Materials utilized for deicing and sanding activities shall remain covered from precipitation until application. Deicing materials containing urea or other forms of nitrogen or phosphorus shall not be applied to parking lots, roadways, and sidewalks or other paved surfaces.

DPW will maintain an accurate list of DPW-maintained roads, streets, and parking lots

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that includes the street name, the miles of roadway not treated by BMPs, and miles of roadway treated with BMPs.

Each annual report due **October 1** will include the updated version of written protocols if any changes are made during the reporting period for DPW-maintained road, street, and parking lot maintenance, equipment maintenance, and material storage designed to minimize pollutant discharge.

No later than **January 2026**, DPW will develop or review and update, if necessary, its existing procedures for snow and ice management, as well as identify opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any DPW-maintained parking lots, roadways, and sidewalks or other paved surfaces.

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PART I.B.2.c

**MS4 PROGRAM IMPLEMENTATION
ROADWAYS**

The permittee shall include a description of the permittee’s street cleaning program including the total number of miles, the number of miles cleaned each year, and the total cleaned cumulatively since permit issuance in each annual report.

Henrico County Road Maintenance utilizes both county-owned street sweepers and contractor work to address its street cleaning needs. Road Maintenance determines which roads are swept on a schedule and which ones are addressed on a complaint basis. County crews and contractors record the number of curb lane miles swept annually.

Street Cleaning Program Information from January 1, 2024 – June 30, 2024

Total number of miles	2,137.4 curb lane miles
Number of miles cleaned	1,600.4 curb lane miles
Total cleaned cumulatively	1,600.4 curb lane miles

The permittee shall include an updated version of the written protocols identified in Part I.B.2.c)(2) if any changes are made during the reporting year.

No changes to the written protocols identified in I.B.2.c)(2) were made during the reporting year.

The permittee shall continue to implement its street cleaning program and shall either (a) develop and implement street cleaning program with metrics documenting implementation of a street cleaning program to clean the highest achievable lane miles based on current resources and historical records for approval by the department within 12 months or (b) clean a minimum of 20% of permittee owned or maintained street lane miles with curb and gutter during each reporting year reaching the equivalent of 100% of permittee owned or maintained street lane miles by the end of the permit term.

Noted. This will be submitted to the department within 12 months of permit issuance.

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Within 24 months of permit issuance, the permittee shall develop or review and update, if necessary, its existing procedures for snow and ice management, as well as identify opportunities to implement best management practices that promote efficient management and application of anti-icing and deicing agent applications to any permittee-maintained parking lots, roadways, and sidewalks or other paved surfaces.

Noted.

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PART I.B.2.d

MS4 PROGRAM IMPLEMENTATION PESTICIDE, HERBICIDE, AND FERTILIZER APPLICATION

PERMIT LANGUAGE

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:

- 1) The permittee shall implement and maintain current turf and landscape nutrient management plans that have been developed by a certified nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia on all lands owned or operated by the permittee where nutrients are applied to a contiguous area greater than one acre. Nutrient management plans shall be submitted to the Department of Conservation and Recreation (DCR) for approval no later than 30 days prior to plan expiration. No nutrient management plans maintained by the permittee shall be considered expired while DCR is reviewing the plan for approval:
 - (a) The permittee shall maintain a list of all permittee lands where nutrients are applied to a contiguous area of more than one acre (including latitude and longitude).
 - (b) The permittee shall track and annually report the following:
 - (1) The total acreage of permittee lands upon which nutrients are applied and controlled using general County guidelines or standard operating procedures;
 - (2) The acreage of permittee lands where turf and landscape nutrient management plans are required (including any new lands added in the reporting year); and
 - (3) The acreage of permittee lands covered by current turf and landscape nutrient management plans.
- 2) The permittee shall continue to employ good housekeeping/pollution prevention measures in the application, storage, transport and disposal of pesticides, herbicides and fertilizers.
- 3) The permittee may regulate the use, application, or storage of fertilizers pursuant to §3.2-3602 of the Code of Virginia.
- 4) The permittee shall track the acreage of permittee lands managed under Integrated Pest Management Plans.

HENRICO COUNTY MS4 PROGRAM PLAN

SPECIFIC REPORTING REQUIREMENTS

- Each annual report shall include the three elements under Part I.B.2.d)1)(b) above and a list of properties identified under Part I.B.2.d)1)(a) including the approval date of the most recent nutrient management plan.
- Each annual report shall include the number of acres managed under Integrated Pest Management Plans.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various program elements and tasks necessary to demonstrate compliance with Part I.B.2.d of the MS4 Permit are assigned to the Departments / Divisions of the County as follows:

All Departments / Divisions will continue to control the discharge of pollutants related to the storage and application of pesticides, herbicides, and fertilizers applied to County-maintained rights of way, parks, and other County property.

All Departments / Divisions will continue to employ good housekeeping / pollution prevention measures in the application, storage, transport and disposal of pesticides, herbicides and fertilizers. Application and disposal of these materials will be in accordance with the manufacturer's recommendations. Storage and transport will be conducted to avoid or minimize exposure to stormwater by doing things such as covering the materials during transport and storing the materials under cover.

All Departments / Divisions will use the MS4 Municipal Management Area (MMMA) System to track compliance with the Turf and Landscape Nutrient Management Plan and Integrated Pest Management Plan requirements of the MS4 Permit. The MMMA System is an inventory of lands maintained by the County that was developed to administer and track compliance with various MS4 Permit requirements. Using the MMMA System, evaluations of County-maintained lands will be conducted to determine whether or not Turf and Landscape Nutrient Management Plans are required. Currently, the MMMA System does not track compliance with the requirements / recommendations included in each individual Turf and Landscape Nutrient Management Plans required by the MS4 Permit.

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Economic Development Authority (EDA) (2024)

No later than **June 30 each year**, EDA will use the MMMA System to review and update all EDA-maintained lands where Turf and Landscape Nutrient Management Plans are required. This annual review will include a review of new EDA-maintained lands to determine if a NMP is required. A NMP will be developed and submitted to DCR for approval within the same reporting period in which the need for a NMP was identified.

EDA will ensure that required Turf and Landscape Nutrient Management Plans are developed by a certified nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia by either hiring a consultant to develop the plans or having certified County staff develop the plans.

EDA will use the MMMA System to track implementation of required Turf and Landscape Nutrient Management Plans and any Integrated Pest Management Plans that have been developed for EDA-maintained lands. Nutrient Management Plan expiration dates will be recorded in the MMMA database, and the plan will be submitted for renewal to DCR no later than 30 days prior to the plan's expiration date. Other individual plan implementation details will be maintained by EDA since those details are not captured in the MMMA System.

General Services (DGS)

No later than **June 30 each year**, DGS will use the MMMA System to review and update all DGS-maintained lands where Turf and Landscape Nutrient Management Plans are required. This annual review will include a review of new DGS-maintained lands to determine if a NMP is required. A NMP will be developed and submitted to DCR for approval within the same reporting period in which the need for a NMP was identified.

DGS will ensure that required Turf and Landscape Nutrient Management Plans are developed by a certified nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia by either hiring a consultant to develop the plans or having certified County staff develop the plans.

DGS will use the MMMA System to track implementation of required Turf and Landscape Nutrient Management Plans and any Integrated Pest Management Plans that have been developed for DGS-maintained lands. Nutrient Management Plan expiration dates will be recorded in the MMMA database, and the plan will be submitted for renewal to DCR no later than 30 days prior to the plan's expiration date. Other individual plan implementation

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details will be maintained by DGS since those details are not captured in the MMMA System.

Mental Health and Development Services (MH/DS) (2024)

No later than **June 30 each year**, MH/DS will use the MMMA System to review and update all MH/DS-maintained lands where Turf and Landscape Nutrient Management Plans are required. This annual review will include a review of new MH/DS-maintained lands to determine if a NMP is required. A NMP will be developed and submitted to DCR for approval within the same reporting period in which the need for a NMP was identified.

MH/DS will ensure that required Turf and Landscape Nutrient Management Plans are developed by a certified nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia by either hiring a consultant to develop the plans or having certified County staff develop the plans.

MH/DS will use the MMMA System to track implementation of required Turf and Landscape Nutrient Management Plans and any Integrated Pest Management Plans that have been developed for MH/DS-maintained lands. Nutrient Management Plan expiration dates will be recorded in the MMMA database, and the plan will be submitted for renewal to DCR no later than 30 days prior to the plan's expiration date. Other individual plan implementation details will be maintained by MH/DS since those details are not captured in the MMMA System.

Recreation and Parks (2024)

No later than **June 30 each year** Recreation and Parks will use the MMMA System to review and update all Recreation and Parks-maintained lands where Turf and Landscape Nutrient Management Plans are required. This annual review will include a review of new Recreation and Parks-maintained lands to determine if a NMP is required. A NMP will be developed and submitted to DCR for approval within the same reporting period in which the need for a NMP was identified.

Recreation and Parks will ensure that required Turf and Landscape Nutrient Management Plans are developed by a certified nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia by either hiring a consultant to develop the plans or having certified County staff develop the plans.

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Recreation and Parks will use the MMMA System to track implementation of required Turf and Landscape Nutrient Management Plans and any Integrated Pest Management Plans that have been developed for Recreation and Parks-maintained lands. Nutrient Management Plan expiration dates will be recorded in the MMMA database, and the plan will be submitted for renewal to DCR no later than 30 days prior to the plan's expiration date. Other individual plan implementation details will be maintained by Recreation and Parks since those details are not captured in the MMMA System.

Public Schools (Schools)

No later than **June 30 each year**, Schools will use the MMMA System to review and update all Schools-maintained lands where Turf and Landscape Nutrient Management Plans are required. This annual review will include a review of new Schools-maintained lands to determine if a NMP is required. A NMP will be developed and submitted to DCR for approval within the same reporting period in which the need for a NMP was identified.

Schools will ensure that required Turf and Landscape Nutrient Management Plans are developed by a certified nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia by either hiring a consultant to develop the plans or having certified County staff develop the plans.

Schools will use the MMMA System to track implementation of required Turf and Landscape Nutrient Management Plans and any Integrated Pest Management Plans that have been developed for Schools-maintained lands. Nutrient Management Plan expiration dates will be recorded in the MMMA database, and the plan will be submitted for renewal to DCR no later than 30 days prior to the plan's expiration date. Other individual plan implementation details will be maintained by Schools since those details are not captured in the MMMA System.

Public Utilities (DPU)

No later than **June 30 each year**, DPU will use the MMMA System to review and update all DPU-maintained lands where Turf and Landscape Nutrient Management Plans are required. This annual review will include a review of new DPU-maintained lands to determine if a NMP is required. A NMP will be developed and submitted to DCR for approval within the same reporting period in which the need for a NMP was identified.

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DPU will ensure that required Turf and Landscape Nutrient Management Plans are developed by a certified nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia by either hiring a consultant to develop the plans or having certified County staff develop the plans.

DPU will use the MMMA System to track implementation of required Turf and Landscape Nutrient Management Plans and any Integrated Pest Management Plans that have been developed for DPU-maintained lands. Nutrient Management Plan expiration dates will be recorded in the MMMA database, and the plan will be submitted for renewal to DCR no later than 30 days prior to the plan's expiration date. Other individual plan implementation details will be maintained by DPU since those details are not captured in the MMMA System.

Public Works (DPW)

No later than **June 30 each year**, DPW will use the MMMA System to review and update all DPW-maintained lands where Turf and Landscape Nutrient Management Plans are required. This annual review will include a review of new DPW-maintained lands to determine if a NMP is required. If a NMP is required, it will be developed and submitted to DCR for approval within the same reporting period in which the need for a NMP was identified.

DPW will ensure that required Turf and Landscape Nutrient Management Plans are developed by a certified nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia by either hiring a consultant to develop the plans or having certified County staff develop the plans.

DPW will use the MMMA System to track implementation of required Turf and Landscape Nutrient Management Plans and any Integrated Pest Management Plans that have been developed for DPW-maintained lands. Nutrient Management Plan expiration dates will be recorded in the MMMA database, and the plan will be submitted for renewal to DCR no later than 30 days prior to the plan's expiration date. Individual plan implementation details will be maintained by DPW since those details are not captured in the MMMA System.

DPW will include a list of all County-maintained lands and applicable acreage on which nutrients are applied to more than one contiguous acre in each annual report due **October**

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1. This information will be extracted from the MMMA System and will include latitude and longitude.

DPW will include a list of the County-maintained lands for which Turf and Landscape Nutrient Management Plans were implemented during the reporting year and the cumulative total of acreage under Turf and Landscape Nutrient Management Plans with the approval date of the most recent nutrient management plan in each annual report due on **October 1**. This information will be extracted from the MMMA System.

DPW will include the acreage of County-maintained lands managed under Integrated Pest Management Plans in each annual report due **October 1 each year**. This information will be extracted from the MMMA System.

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PART I.B.2.d

MS4 PROGRAM IMPLEMENTATION PESTICIDE, HERBICIDE, AND FERTILIZER APPLICATION

Each annual report shall include the three elements under Part I.B.2.d)1)(b) above and a list of properties identified under Part I.B.2.d)1)(a) including the approval date of the most recent nutrient management plan.

Permittee lands upon which nutrients are applied to a contiguous area of more than one acre (including latitude and longitude)

MMMA	MMMA Description (if applicable)	Latitude	Longitude	Approval Date of most recent NMP
MMMA000018	DEEP RUN	37.6754	-77.5998	06/07/2024
MMMA000020	GLEN ALLEN HS	37.6659	-77.5356	06/07/2024
MMMA000022	SHORT PUMP MS	37.6665	-77.6103	06/07/2024
MMMA000032	ATHLETIC FIELD - BROOKLEY RD.	37.6745	-77.5100	01/25/2022
MMMA000037	TWIN HICKORY PARK	37.6783	-77.5971	01/25/2022
MMMA000049	ATHLETIC FIELD - LAUREL	37.6453	-77.5086	01/19/2024
MMMA000069	SHORT PUMP ES	37.6493	-77.6119	06/07/2024
MMMA000105	WATER TREATMENT FACILITY	37.6275	-77.578	01/01/2023
MMMA000130	HERMITAGE	37.6334	-77.5153	06/07/2024
MMMA000133	ATHLETIC FIELDS – SHORT PUMP PARK	37.6478	-77.6124	01/25/2022
MMMA000199	RIDGE	37.6062	-77.5594	06/07/2024
MMMA00219	DAVIS	37.6238	-77.5598	06/07/2024
MMMA000249	TUCKER	37.6295	-77.5484	06/07/2024
MMMA000265	ATHLETIC FIELDS – POUNCEY TRACT PARK	37.6684	-77.6116	01/01/2023
MMMA000295	ATHLETIC FIELDS – KLEHR FIELD	37.6264	-77.4276	01/01/2023
MMMA000305	HENRICO	37.6042	-77.4325	06/07/2024
MMMA000332	GOLF COURSE - BELMONT	37.6217	-77.4631	01/01/2014
MMMA000378	MONTROSE	37.5215	-77.3755	06/07/2024

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PART I.B.2.d

ANNUAL REPORT SUPPLEMENT

JANUARY 16, 2024 THROUGH JUNE 30, 2024

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MMMA	MMMA Description (if applicable)	Latitude	Longitude	Approval Date of most recent NMP
MMMA000407	SANDSTON	37.5244	-77.3127	06/07/2024
MMMA000434	HIGHLAND SPRINGS HS	37.5390	-77.3243	06/07/2024
MMMA000433	ATHLETIC FIELD – EASTERN REC	37.5663	-77.3820	01/01/2023
MMMA000435	HIGHLAND SPRINGS RECREATION AREA	37.5426	-77.3271	01/01/2023
MMMA000456	ATHLETIC FIELDS – VAWTER/GLEN LEA	37.5923	-77.4013	01/25/2022
MMMA000467	ROLFE	37.4755	-77.3732	06/07/2024
MMMA000471	MEHFOUD	37.4368	-77.3458	06/07/2024
MMMA000501	SEVEN PINES	37.5158	-77.3048	06/07/2024
MMMA000517	ATHLETIC FIELDS – SANDSTON REC	37.5253	-77.3139	01/01/2023
MMMA000521	TUCKAHOE MS	37.6083	-77.5595	06/07/2024
MMMA000565	VARINA HS	37.4727	-77.3769	06/07/2024
MMMA000577	ATHLETIC FIELD COMPLEX - DOREY	37.4639	-77.3393	01/01/2023
MMMA000584	HIGHLAND SPRINGS ES	37.5434	-77.3406	06/07/2024
MMMA000603	FAIR OAKS	37.5334	-77.3201	06/07/2024
MMMA000607	ELKO	37.5049	-77.2309	06/07/2024
MMMA000623	POCAHONTAS	37.6459	-77.6075	06/07/2024
MMMA000625	GODWIN	37.6178	-77.6031	06/07/2024
MMMA000654	ATHLETIC FIELDS - VARINA	37.4425	-77.3573	01/19/2024
MMMA000660	FREEMAN	37.6025	-77.5579	06/07/2024
MMMA000662	ATHLETIC FIELD – VARINA REC	37.5665	-77.3798	01/19/2024
MMMA000666	HOLMAN	37.6912	-77.5878	06/07/2024
MMMA000695	ATHLETIC FIELDS – TUCKAHOE PARK	37.6266	-77.623	01/25/2022
MMMA000699	ATHLETIC FIELDS – DEEP RUN PARK	37.6312	-77.5898	01/19/2024
MMMA000711	SHORT PUMP MS	37.6672	-77.6079	06/07/2024
MMMA000722	ATHLETIC FIELDS - GA SOFTBALL	37.6583	-77.4846	01/01/2023

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MS4 Municipal Management Areas (MMMA) on which Turf and Landscape Nutrient Management Plans were implemented between January 1, 2024 and June 30, 2024

MMMA	MMMA Description (if applicable)	Acreage Covered
MMMA000049	ATHLETIC FIELD - LAUREL	1.68
MMMA000069	SHORT PUMP ES	2.58
MMMA000130	HERMITAGE	5.43
MMMA000199	RIDGE	2.94
MMMA00219	DAVIS	1.46
MMMA000249	TUCKER	6.26
MMMA000305	HENRICO	4.9
MMMA000378	MONTROSE	1.6
MMMA000407	SANDSTON	1.63
MMMA000434	HIGHLAND SPRINGS HS	4.55
MMMA000467	ROLFE	5.31
MMMA000471	MEHFOUD	1.13
MMMA000501	SEVEN PINES	1.69
MMMA000521	TUCKAHOE MS	1.92
MMMA000565	VARINA HS	5.24
MMMA000584	HIGHLAND SPRINGS ES	2.69
MMMA000603	FAIR OAKS	1.04
MMMA000607	ELKO	4.32
MMMA000623	POCAHONTAS	4.2
MMMA000625	GODWIN	10.01
MMMA000654	ATHLETIC FIELDS - VARINA	1.96
MMMA000660	FREEMAN	3.98
MMMA000662	ATHLETIC FIELD – EASTERN REC	1.84
MMMA000666	HOLMAN	3.29
MMMA000699	ATHLETIC FIELDS – DEEP RUN PARK	6.31
MMMA000711	SHORT PUMP MS	4.35
TOTAL		92.31

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Turf and Landscape Nutrient Management Compliance

Total acreage of permittee lands upon which nutrients are applied and controlled using general County guidelines or standard operating procedures	289.67
Total acres requiring coverage by a Turf and Landscape Nutrient Management Plan	269.5
Total acres managed by a Turf and Landscape Nutrient Management Plan	269.5
Percentage of identified acres requiring coverage by a Turf and Landscape Nutrient Management Plan that is covered by a Turf and Landscape Nutrient Management Plan	100

Each annual report shall include the number of acres managed under Integrated Pest Management Plans.

Acres managed under Integrated Pest Management Plans	177.163
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HENRICO COUNTY MS4 PROGRAM PLAN

PART I.B.2.e

MS4 PROGRAM IMPLEMENTATION ILLICIT DISCHARGES AND IMPROPER DISPOSAL

PERMIT LANGUAGE

Discharges to the MS4 not authorized by this state permit shall be effectively prohibited.

- 1) 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.
- 2) 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 300,000 linear feet of sanitary sewer annually.

- 3) The permittee shall continue to implement a program to reduce the discharge of floatables (e.g. litter and other human-generated solid refuse).
- 4) The permittee shall prohibit the dumping or disposal of used motor vehicle fluids, household hazardous wastes, sanitary sewage, grass clippings, leaf litter, and animal wastes into the MS4. The permittee shall ensure the implementation of programs to collect used motor vehicle fluids (such as oil and antifreeze) for recycling, reuse, or proper disposal and to collect household hazardous waste materials (including paint, solvents, pesticides, herbicides, and other hazardous 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.
- 5) 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 weather screening activities to locate portions of the MS4 with suspected illicit discharges and improper disposal, as described in Part I.B.2.1)(1) of this state permit.

HENRICO COUNTY MS4 PROGRAM PLAN

- 6) 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.

SPECIFIC REPORTING REQUIREMENTS

- **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.**
- **Each annual report shall include the amount of linear feet of sanitary sewer inspected during the reporting year.**

MS4 PROGRAM ELEMENTS, ROLES AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.2.e of the MS4 Permit are assigned to the following Departments / Divisions of the County:

Public Utilities (DPU)

DPU will continue implementing a sanitary sewer inspection program.

DPU will inspect a minimum of 300,000 linear feet of sanitary sewer every permit year.

DPU will continue implementing a program to reduce the discharge of floatables.

DPU will ensure the implementation of programs to collect used motor vehicle fluids and household hazardous waste materials for recycling, reuse or proper disposal.

DPU will make sure these programs are readily available to all private residents.

DPU will publicize and promote these programs on a regular basis not less than twice per year.

No later than **July 31 of each year**, DPU will provide DPW with the amount of linear feet of sanitary sewer inspected for inclusion in the annual reports due October 1.

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Public Works (DPW)

DPW will continue implementing a program to reduce the discharge of floatables.

DPW will continue to prohibit the dumping or disposal of used motor vehicle fluids, household hazardous wastes, sanitary sewage, grass clippings, leaf litter and animal wastes into the MS4.

DPW will ensure the implementation of programs to collect used motor vehicle fluids and household hazardous water materials for recycling, reuse or proper disposal.

DPW will make sure programs to collect used motor vehicle fluids and household hazardous water materials for recycling, reuse or proper disposal are readily available to all private residents.

DPW will publicize and promote programs to collect used motor vehicle fluids and household hazardous waste materials for recycling, reuse or proper disposal on a regular basis not less than twice per year.

DPW will continue implementing a program to locate and eliminate illicit discharges and improper disposal into the MS4. The program will include dry weather screening activities to locate portions of the MS4 with suspected illicit discharges and improper disposal.

No later than **July 31 of each year**, DPW will develop a list of illicit discharges identified and follow up activities including whether the illicit discharge has been eliminated for inclusion in the annual reports due **October 1**.

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PART I.B.2.e

**MS4 PROGRAM IMPLEMENTATION
ILLICIT DISCHARGES AND IMPROPER DISPOSAL**

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.

Illicit Discharges Identified between January 1, 2024 and June 30, 2024

IDDE00931

Disabled Vehicles Correspondence	01/03/2024 - Resident complaint regarding disabled vehicles in the ROW. 01/03/2024 - Forwarded concerns to Road Maintenance.	Illicit discharge eliminated
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IDDE00932

Sediment in the ROW Correspondence	01/03/2024- Complaint stemming from sediment accumulation in the gutter-pan and along the roadway. 01/03/2024- Conducted site inspection and forwarded concerns to road maintenance.	Illicit discharge eliminated
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IDDE00933

Debris along roadway Correspondence	01/18/2024- Received notification of debris along roadway. 01/15/2024- Forwarded concerns to road maintenance.	Illicit discharge eliminated
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IDDE00934

<p>Illegal dumping into state waters Correspondence</p>	<p>02/01/2024- Received notification of truck pumping liquid into the Chickahominy river.</p> <p>02/01/2024- Conducted site inspection and notified DEQ. I provided DEQ with the vehicles tag number and company name. DEQ notified me that on some occasions well drilling companies are licensed to perform such operations and they would look into the company to verify its credentials.</p>	<p>Illicit discharge eliminated</p>
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IDDE00935

<p>Abnormal draining into storm drain</p>	<p>01/23/2024- Received complaint regarding abnormal drainage into the storm drain.</p> <p>01/23/2024- Conducted a site visit and performed a chlorine test. Test results were negative, and the source was determined to be ground water. Information was relayed back to the resident via phone call.</p>	<p>Illicit discharge eliminated</p>
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IDDE00936

<p>Stockpile Concerns</p>	<p>02/01/2024- Resident reported signs of a possible fish kills within Little Westham Creek.</p> <p>02/01/2024</p>	<p>Illicit discharge eliminated</p>
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IDDE00937

<p>Leaves placed in storm drain</p>	<p>02/12/2024- Resident complaint regarding leaves placed in the storm drain by a contractor.</p> <p>02/812/2024- Relayed concerns to Road Maintenance.</p>	<p>Illicit discharge eliminated</p>
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IDDE00938

Illegal Dumping	06/24/2024-Resident reported illegal dumping into the roadside channel. 06/25/2024- Drywall or Tile compound was observed being dump into the storm channel by a resident. Resident reached out to the area inspector Ryan Messinger via email. Ryan forwarding the email, and I conducted and inspection of the area and observed the material. Material had hardened and I was able to remove the spoils via shovel. I notified the homeowner of the incident but he was unable to provide the contractor's name. Homeowner stated he would have the contractor reach out to me.	Illicit discharge eliminated
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HENRICO COUNTY MS4 PROGRAM PLAN

IDDE00940

Sanitary sewer leak	<p>02/21/2024- General Services sanitary sewer leak.</p> <p>02/21/2024- Corresponded with DEQ due to the leak impacting an adjacent BMP. Also notified the county BMP Program Specialist. First Call was dispatched by General Services to clean the impacted area once repairs were made.</p>	Illicit discharge eliminated
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IDDE00941

Petroleum tanks near stream	<p>02/26/2024- Received notification from fire of possible petroleum tanks adjacent to a stream.</p> <p>02/26/2024- Conducted a joint site inspection with Fire and Assistant ESD director and it was determined that tanks were not leaking. Fire notified us that they would follow-up with the resident in the attempt to have them remove the tanks from the area.</p>	Illicit discharge eliminated
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IDDE00942

Possible discharge onto private property	<p>02/27/2024- Received notification from property owner of possible Illicit discharge.</p> <p>02/27/2024- Conducted a site inspection and noticed water being discharged into a manhole. Contacted DPU and they stated it was standard practice in the area. Relayed the information to property owner.</p>	Illicit discharge eliminated
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HENRICO COUNTY MS4 PROGRAM PLAN

IDDE00943

Petroleum concerns	02/21/2024- Received notification of possible petroleum leak.	Illicit discharge eliminated
	02/21/2024- I conducted a site visit and substance was determined to be Iron Oxidation.	

IDDE00944

Restaurant spill	03/13/2024- Received notification of possible restaurant spill.	Illicit discharge eliminated
	03/13/2024- Once information was relayed to restaurant staff they dispatched First Call to clean up the impacted area. Schools confirmed that area was cleaned.	

IDDE00945

Seal coating spill	04/04/2024- During Fire Dept. operations they noticed a seal coating spill impacting the ROW.	Illicit discharge eliminated
	04/04/2024- Conducted and site inspection and determined that impacted area warranted First Call to be dispatched. Area was cleaned and spoiled were disposed of by First Call. Homeowner provided the information of the seal coating company responsible for the spill. I reached out the the company with obtaining any resolution. I forwarded the companies information to Risk Management. Company information: Seal Coating and Asphalt Maintenance Phone: 862-273-6870	

IDDE00946

Discharge onto adjacent property	04/08/2024- Resident concerned about water being pumped into a channel.	Illicit discharge eliminated
	04/08/2024- Upon conducting a site inspection and speaking with the adjacent property owner it was determined the source was ground water. I informed the original complainant of my findings, and no further actions were required.	

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IDDE00947

Trash truck hydraulic leak	<p>04/24/2024- Refuse truck hydraulic leak.</p> <p>04/24/2024- Received notification from a resident regarding a hydraulic leak from a truck owned by Zan's refuse service. Confirmed in GIS that the impacted infrastructure was private. DEQ was contacted to notify them of the spill.</p>	Illicit discharge eliminated
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IDDE00948

Sanitary sewer line damage	<p>05/29/2024- Received notification of sanitary line damage caused by a contractor.</p> <p>05/29/2024- Received notification from DPW staff of a damaged sanitary sewer line caused by a contractor. I viewed GIS and confirmed that our MS4 was not being impacted. I reminded onsite DPU staff of SSO practices and notified DEQ due to adjacent wetlands being impacted.</p>	Illicit discharge eliminated
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IDDE00949

Restaurant spill	<p>06/14/2024- Restaurant spill</p> <p>06/14/2024- Conducted site inspection of the area and noticed the area had poor draining and the spill did not impact any adjacent infrastructure. I notified the restaurant owner of the spill, and they implemented cleaning measure to the impacted surface.</p>	Illicit discharge eliminated
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HENRICO COUNTY MS4 PROGRAM PLAN

Sewer Discharges Identified between January 1, 2024 and June 30, 2024

Date	Sewer Discharge	County Action
1/6/2024	A sewage spill occurred from SMH# 108SW008, located at 4800 Vawter Avenue (Strawberry Hill SPS), on January 6, 2024. The spill started at 7:45 pm on January 6, 2024 and ended at 12:15 am on January 7, 2024. Approximately 33,750 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime
1/7/2024	A blockage occurred in the County sewer mainline between SMH#196SW062 and SMH# 196SW046 at 8910 Quiocassin Road. This caused a monitoring manhole behind a Food Lion Store to overflow. Approximately 210 gallons of sewage spilled.	A cleanup of the area behind the Food Lion Store was performed and lime applied.
1/9/2024	An overflow occurred at SMH# 047SW017 at 2051 Jennie Scher Road (Gillies Creek SPS). The overflow occurred due to heavy rainfall that occurred on January 9, 2024. Approximately 8,625 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
1/9/2024	A sewage spill occurred from SMH# 108SW008, located at 4800 Vawter Avenue on January 9, 2024. The spill resulted from excessive rainfall that occurred on January 9, 2024. Approximately 141,750 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
1/9/2024	A sewage overflow occurred from MH# 052NE009 at 5700 Old Osborne Turnpike (Almond Creek SPS) due to heavy rainfall that occurred on January 9, 2024. Approximately 141,000 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.

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Date	Sewer Discharge	County Action
2/21/2024	A sewage spill occurred from SMH# 079NW040, located at 4500 Eastover Ave. The spill resulted from a blockage between SMH# 079NW030 and SMH# 079NW027. Approximately 675 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/2/2024	A sewage overflow occurred from MH# 052NE009 at 5700 Old Osborne Turnpike (Almond Creek SPS) due to heavy rainfall that occurred on March 1 and 2, 2024. Approximately 66,000 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/2/2024	A sewage spill occurred from SMH# 321NE080, located at approximately 9824 Monimia Ct on March 2, 2024. The spill resulted from a blockage of light grease and debris accumulation between SM# 321NE080 and SMH# 321NE019. Approximately 1,200 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/2/2024	A sewage spill occurred at River Road Sewage Pumping Station located at 10020 River Road. The spill resulted from excessive wet weather conditions. Approximately 14,175 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/2/2024	A sewage spill occurred from SMH# 108SW008, located at 4800 Vawter Avenue on March 2, 2024. The spill resulted from excessive rainfall that occurred on March 1 and 2, 2024. Approximately 7,800 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/2/2024	A sewage spill occurred at SMH# 331NW003 located at approximately 2413 Fruehauf Rd. The spill resulted from excessive wet weather causing surcharged conditions. Approximately 5,260 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.

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Date	Sewer Discharge	County Action
3/5/2024	A sewage spill occurred at River Road Sewage Pumping Station located at 10020 River Road. The spill resulted from excessive wet weather conditions. Approximately 59,000 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/6/2024	A sewage overflow occurred from MH# 052NE009 at 5700 Old Osborne Turnpike (Almond Creek SPS) due to heavy rainfall that occurred on March 6, 2024. Approximately 3,300 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/6/2024	A sewage spill occurred at SMH# 331NW003 located at approximately 2413 Fruehauf Rd. The spill resulted from excessive wet weather causing surcharged conditions. Approximately 4,269 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/9/2024	A sewage overflow occurred from MH# 052NE009 at 5700 Old Osborne Turnpike (Almond Creek SPS) due to heavy rainfall that occurred on March 9, 2024. Approximately 7,200 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/9/2024	A sewage spill occurred at River Road Sewage Pumping Station located at 10020 River Road. The spill resulted from excessive rainfall on March 9, 2024. Approximately 8,850 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/23/2024	A sewage overflow occurred from MH# 052NE009 at 5700 Old Osborne Turnpike (Almond Creek SPS) due to heavy rainfall that occurred on March 22 and 23, 2024. Approximately 74,250 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.

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Date	Sewer Discharge	County Action
3/23/2024	A sewage spill occurred from SMH# 108SW008, located at 4800 Vawter Avenue (Strawberry Hill SPS), on March 23, 2024. The spill resulted from excessive rainfall on March 22 and 23, 2024. Approximately 108,625 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/23/2024	A sewage spill occurred at River Road Sewage Pumping Station located at 10020 River Road. The spill resulted from excessive rainfall on March 22 and 23, 2024. Approximately 140,000 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/23/2024	A sewage spill occurred at SMH# 331NW003, located at approximately 2413 Fruehauf Rd. The spill resulted from excessive rainfall on March 22 and 23, 2024. Approximately 39,960 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/28/2024	A sewage overflow occurred from MH# 052NE009 at 5700 Old Osborne Turnpike (Almond Creek SPS) excessive wet weather conditions that occurred on March 27 and 28, 2024. Approximately 15,400 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
3/28/2024	A sewage spill occurred at from SMH#008541 at the River Road Sewage Pumping Station located at 10020 River Road. The spill resulted from excessive wet weather conditions on March 27 and 28, 2024. Approximately 96,585 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.
4/19/2024	A sewage spill occurred at SMH# 331NW003, located at approximately 2413 Fruehauf Rd. The spill resulted from a grease blockage on April 19, 2024. Approximately 1,400 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.

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Date	Sewer Discharge	County Action
5/6/2024	Spill of Refuse Vehicle Hydraulic Fluid at 9611 Tracy Ct., Henrico VA, 22238 on May 6, 2024, that resulted in pavement and soil contamination. DPU Environmental Contractor – First Call Environmental responded immediately and performed a cleanup. Waste Hydraulic and Cleanup solutions were used along with absorbent materials. Waste streams collected following the cleanup and contaminated soil were properly sent appropriate waste management facilities. 250 pounds of solids, 100 gallons of waste solutions, and 7.66 tons of contaminated soil were sent for disposal.	County staff contacted Environmental Contractor (First Call Environmental) to clean up the spill and properly dispose of all waste.
5/8/2024	A sewage overflow occurred from MH# 619NW505 at 7301 Technology Boulevard due to a deposition of cement concrete in SMH#011934 causing a blockage. Approximately 5,175 gallons of sewage spilled.	County staff cleaned up the area affected and applied lime.

Each annual report shall include the amount of linear feet of sanitary sewer inspected during the reporting year.

Length of Sanitary Sewer Inspected between January 1, 2024 and June 30, 2024	149,952 linear feet
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PART I.B.2.f

MS4 PROGRAM IMPLEMENTATION SPILL PREVENTION AND RESPONSE

PERMIT LANGUAGE

The permittee shall continue to implement a program that coordinates with the fire department and other permittee operated 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.

SPECIFIC REPORTING REQUIREMENTS

- Each annual report shall include a list of spills, the source (identified to the best of the permittee's ability), and a description of follow-up activities taken.

MS4 PROGRAM ELEMENTS, ROLES AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.2.f of the MS4 Permit are assigned to the following Departments / Divisions of the County:

All Departments / Divisions will continue to implement a program to prevent, contain and respond to spills that occur at their facilities.

General Services (DGS)

No later than **July 31 of each year**, DGS will provide DPW with a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due **October 1**.

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Recreation and Parks

No later than **July 31 of each year**, Recreation and Parks will provide DPW with a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due **October 1**.

Public Utilities (DPU)

No later than **July 31 of each year**, DPU will provide DPW with a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due **October 1**.

Public Schools (Schools)

No later than **February 28 of each year**, Schools will provide DPW with a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due March 31.

Division of Fire (Fire)

Fire will continue to implement a program to contain and respond to spills that occur on private property and in the right-of-way. Fire will coordinate with DPW for spills that occur in the right-of-way.

No later than **July 31 of each year**, Fire will provide DPW with a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due **October 1**.

Division of Police (Police)

No later than **July 31 of each year**, Police will provide DPW with a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due **October 1**.

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Public Library (Library)

No later than **July 31 of each year**, Library will provide DPW with a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due **October 1**.

Mental Health and Developmental Services (MH/DS)

No later than **July 31 of each year**, MH/DS will provide DPW with a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due **October 1**.

Economic Development Authority (EDA)

No later than **July 31 of each year**, EDA will provide DPW with a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due **October 1**.

Public Works (DPW)

DPW will continue to implement a program to contain and respond to spills that occur in the right-of-way. DPW will coordinate with Fire for spills that occur in the right-of-way.

No later than **July 31** of each year, DPW will create a list of spills, the source and a description of the follow-up activities taken for inclusion in the annual reports due **October 1**.

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PART I.B.2.f

**MS4 PROGRAM IMPLEMENTATION
SPILL PREVENTION AND RESPONSE**

Each annual report shall include a list of spills, the source (identified to the best of the permittee’s ability), and a description of follow-up activities taken.

Spills that Occurred between January 1, 2024 and June 30, 2024

DATE	Provide description of spill, list the material spilled and the quantity, and address what cleanup methods were used.
1/8/2024 - DPU	~10 Gallons of raw wastewater. Hose on temporary sump pump used to pump scum into the primary splitter box came loose, discharging onto the ground and into nearby stormwater inlet. The spill gate to Outfall #1 was closed immediately and samples were collected at the gate. Dissolved Oxygen and pH analysis showed no impacts from minimal discharge into stormwater drain. There was no material observed in pipe leading to Outfall #1, so it was not necessary to have material removed.
01/23/2024- DPW	Less than five gallons of hydraulic fluid spilled from truck #698 into equipment bay. Oil dry was applied to spill area to absorb material. Booms were placed to prevent any material from entering the storm water system. Used oil dry was disposed into Clean Harbor barrels.

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DATE	Provide description of spill, list the material spilled and the quantity, and address what cleanup methods were used.
2/20/2024- DGS	The Septic Line for Fire Station No. 4 was damaged by a cable subcontractor doing work unrelated to Henrico County DGS. An immeasurable amount of treated wastewater was released between the date the subcontractors worked (1/8/24), and the date that General Services found and fixed the issue (2/20/24). Universal booms and granular absorbent were used to contain the visibly pooling waste water. Hydro excavation was done to remove contaminated soil as well as expose the septic line for repairs. Impervious surfaces were cleaned by an environmental spill response company. All contaminated materials were disposed of properly through this company
3/1/2024-Schools	Cooking oil spill from El Caporal restaurant into Freeman HS BMP. Amount 2 – 3 gallons removed by First Call Environment and boom installed to prevent any more oil entering from the restaurant.
5/24/2024 -Schools	School bus bad fuel line approximately 10 gallons diesel spilled onto bus loop. Immediate application of oil absorbent by school maintenance personnel contained leak before it could enter storm system 100 feet away. Facilities labor crew cleaned and properly disposed of absorbent material from bus loop. School bus was towed to CAM
3/19/2024 -R&P	R&P – Evidence of a release of petroleum product was observed outside of the maintenance bay area at Belmont Golf Course. Quantity predicted ~3 gallons of petroleum oil spilled into parking lot; the spill did not extend to the MS4. Remnants of spill was cleaned in the parking lot with absorbent material and discarded as hazardous waste. Belmont staff was notified and instructed on Illicit Discharge best practices for future spills.

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DATE	Provide description of spill, list the material spilled and the quantity, and address what cleanup methods were used.
03/22/2024 -DPW	Tractor #738 spilled 2-3 gallons of hydraulic fluid onto pavement and gravel shoulder along White Oak Rd near intersection of US 60. Absorbent pillow and pads were placed underneath to collect any additional material. Oil dry was applied to absorb excess material from roadway. Approximately 3 sq ft of affected gravel were removed. All waste materials were placed into Clean Harbors barrels.

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DATE	Provide description of spill, list the material spilled and the quantity, and address what cleanup methods were used.
05/06/2024 - DPU	Spill of Refuse Vehicle Hydraulic Fluid at 9611 Tracy Ct., Henrico VA, 22238 on May 6, 2024, that resulted in pavement and soil contamination. DPU Environmental Contractor – First Call Environmental responded immediately and performed a cleanup. Waste Hydraulic and Cleanup solutions were used along with absorbent materials. Waste streams collected following the cleanup and contaminated soil were properly sent appropriate waste management facilities. 250 pounds of solids, 100 gallons of waste solutions, and 7.66 tons of contaminated soil were sent for disposal.
05/17/2024- DPW	Tractor #775 leaked less than five gallons of diesel fuel into equipment bay. Oil dry was applied to collect material with a boom used to stop further migration. A spill tray with oil-only pads was placed underneath the tractor to catch any additional material. Used oil dry and pads were placed into Clean Harbors barrels.
5/30/2024 - DPU	<p><1,000 gallons of non-potable water.</p> <p>Non-potable hydrant near Secondary Clarifier #5 and #6 had an underground leak below the hydrant.</p> <p>Shift Operator secured the hydrant, after discovery, by closing the valve to reduce flow since leak was actually underground. This reduced the flow to a trickle until the leak could be stopped completely. Most of the non-potable water was absorbed into surrounding soil with <10 gallons making its way into nearby stormwater inlet that drains to Outfall #1. A chlorine residual sample was collected. The results were less than method detection levels.</p> <p>Observations at Outfall #1 also showed no signs of environmental impact.</p>

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DATE	Provide description of spill, list the material spilled and the quantity, and address what cleanup methods were used.
6/3/2024 - DPU	<p><800 gallons of non-potable water.</p> <p>Non-potable hydrant near Secondary Clarifier #5 and #6 had an underground leak below the hydrant. The original leak was detected on 5/30/2024. It was apparent on 6/3/2024 that the original attempt to fix the previous leak was unsuccessful. It was determined after additional investigation that the valve was not completely closed allowing non-potable water to slowly leak into the ground.</p> <p>Upon determining the cause of the continuing leak, staff again closed the valve, ensuring it was completely closed. In addition, a large spill berm and several sandbags were positioned in front of nearest stormwater inlet. Most of the non-potable water was absorbed into the soil and less than 50 gallons made its way to Stormwater Outfall #1.</p>

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PART I.B.2.g MS4 PROGRAM IMPLEMENTATION INDUSTRIAL AND HIGH-RISK RUNOFF

PERMIT LANGUAGE

The permittee shall implement a program to identify and control pollutants in stormwater discharges to the MS4 from industrial and high-risk runoff facilities (e.g., municipal landfills; other treatment, storage, or disposal facilities for municipal waste; hazardous waste treatment, storage, disposal and recovery facilities; facilities that are subject to EPCRA Title III, Section 313). 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.

- 1) The permittee shall maintain, and update as necessary, a list of all known industrial and high-risk dischargers to the MS4.
- 2) The permittee shall maintain a list of any industrial and/or commercial stormwater discharges not permitted by the Department that it determines to have the potential to contribute a significant pollutant loading to the MS4. This may be individual discharges or categories of discharges.
 - a) The list shall include, but shall not be limited to, major automotive facilities such as repair shops, body shops, auto detailers, tire repair shops and service stations.
 - b) Visual inspections of exposed areas and points of connections to the MS4 or outfalls at these facilities shall be conducted, in accordance with the schedule outlined in the MS4 Program Plan, to identify potential sources of pollutants that could enter the MS4 and surface waters.
 - c) The permittee shall require control measures as necessary and/or appropriate for stormwater discharges from these dischargers to the MS4.
- 3) 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 to the MS4

HENRICO COUNTY MS4 PROGRAM PLAN

- 4) The permittee shall 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 loading may be carried out in conjunction with other permittee programs.
- 5) The permittee shall refer to the Department of Environmental Quality, Piedmont 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.

SPECIFIC REPORTING REQUIREMENTS

- **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.**
- **Each annual report shall include a report on implementation of the inspection schedule and include a list of the facilities and/or facility outfalls or points of connection to the permittee's MS4 inspected during the reporting period.**
- **Each annual report shall include a list of referrals to the Department including a document detailing any coordination activities with the Department.**

MS4 PROGRAM ELEMENTS

The Department of Public Works (DPW) will continue to implement a program to identify and control pollutants in stormwater discharges to the MS4 from Industrial and High Risk Runoff Facilities (e.g., municipal landfills; other treatment, storage, or disposal facilities for municipal waste; hazardous waste treatment, storage, disposal and recovery facilities; facilities that are subject to EPCRA Title III, Section 313) and any other industrial or commercial discharges the permittee determines are contributing a significant pollutant loading to the MS4.

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To identify the Industrial and High-Risk Runoff Facilities that contribute significant pollutant loading to the MS4, DPW started with a listing of parcels from the County's GIS that were characterized with applicable land use codes.

The parcels are then combined where appropriate to reflect individual facilities and/or operations (i.e., all parcels for Bunge Oil were combined to be depicted as one facility). Using aerial photography, the operational areas (i.e., storage areas, loading/unloading areas, processing areas, etc.) on the facilities will be evaluated to determine whether or not they discharge to the MS4. If the operational areas discharge to the MS4, the facilities are considered Industrial and High-Risk Runoff Facilities (see attachments) and the MS4 structure or structures that the facilities discharge into are identified.

No fewer than fifty MS4 structures that Industrial and High Risk Runoff Facilities discharge into will be inspected during each permit year and all will be inspected at least once during the cycle. In addition, outfalls from Industrial and High Risk Runoff Facilities with a history of contributing significant pollutant loading to the MS4 during the previous permit year will be re-inspected the following permit year. These outfalls will be subject to the established inspection procedure, including evaluations of identified flows and maintenance and repair needs.

If the MS4 structure inspections reveal evidence of significant pollutant loading to the MS4 by a VPDES permitted Industrial and High Risk Runoff Facility or if DEQ determines the Discharge Monitoring Reports (DMRs) submitted indicates significant pollutant loading, the facility will be referred to DEQ for consideration of additional monitoring requirements or pollution control measures.

If the MS4 structure inspections reveal evidence of significant pollutant loading to the MS4 by a non-VPDES permitted Industrial and High Risk Runoff Facility, DPW staff will inspect the facility to investigate the source of the pollutant discharge.

DPW will review the list of Industrial and High-Risk Runoff Facilities annually. The list will be updated as necessary using the County's GIS. DPW will also make an annual request of DEQ's Piedmont Regional Office for the current VPDES Industrial Stormwater permitted facility list and make updates to the list of Industrial and High Risk Runoff Facilities as necessary.

DPW will track compliance with the Industrial and High Risk Runoff Facility program elements in databases that includes information such as:

1. the Industrial and High Risk Runoff Facilities;
2. the land use code for the facility

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2. whether or not the facility discharges to the MS4 and if so, the MS4 structures that receive runoff from the facility;
3. whether or not evidence of significant pollutant loading exists as a result of MS4 structure inspections and DMR evaluation;
4. records of follow-up actions (inspections, enforcement actions, etc.) taken if evidence of significant pollutant loading exists;
4. records of facility inspections and MS4 structure inspections; and
5. records of DMR receipt

ROLES AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.2.g of the MS4 Permit are assigned to the following Departments / Divisions of the County:

DPW will inspect all Industrial and High Risk Runoff Facilities outfalls connected to the MS4 at least once during the permit cycle.

DPW will review Discharge Monitoring Reports (DMRs) submitted to the County by VPDES industrial stormwater permitted facilities as part of the investigation of significant pollutant loadings.

DPW will inspect any non-VPDES permitted Industrial and High Risk Runoff Facilities from which evidence is found of a significant pollutant loading entering the MS4.

DPW will refer facilities and/or operations identified as having non-stormwater discharges that do not have coverage under an existing VPDES permit to DEQ as the facilities and/or operations are identified.

DPW will refer facilities and/or operations identified pursuant to 40 CFR Part 122.26(b)(14) with manufacturing, processing, or raw materials storage outside that do not have coverage under an existing VPDES permit to DEQ as the facilities and/or operations are identified.

DPW will refer any Industrial and High Risk Runoff Facility where there is evidence of significant pollutant loading to the MS4 to DEQ as the facilities are identified.

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No later than **July 31** of each year, **DPW** will develop a report on implementation of the inspection schedule and a list of the facilities and/or facility outfalls inspected during the reporting period for inclusion in the annual report due **October 1**.

DPW will include a list of all facilities and/or operations referred to DEQ during the reporting period in each annual report due **October 1**.

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MS4 PROGRAM IMPLEMENTATION INDUSTRIAL AND HIGH-RISK RUNOFF

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.

Site Name	IC ID	Use Code	Use Description
Bunge Oils	IC0001	495	Ind'l Manufacturing
FORMER QUEBECOR	IC0003	495	Ind'l Manufacturing
Henkel	IC0005	406	Warehouse
Hilex Poly	IC0006	406	Warehouse
Johns Manville	IC0007	495	Ind'l Manufacturing
Westrock - formerly Rock Tenn/Smurfit-Stone	IC0008	495	Ind'l Manufacturing
Home Depot	IC0011	353	Retail Store
San J International	IC0013	495	Ind'l Manufacturing
Divert Valve Fittings Company	IC0016	406	Warehouse
Mooers Volvo Motor Car Co	IC0019	455	Auto Dealership
Shops at Innsbrook	IC0020	414	Shopping Center
Axselle Auto Service	IC0022	528	Service Garage
Walgreens Pharmacy	IC0023	353	Retail Store
Martha Dawson, DDS	IC0024	341	Office - Medical
Short Pump Commons	IC0025	414	Shopping Center
Centimark	IC0026	675	Office/Warehouse
G&R Auto Service (Citgo)	IC0032	528	Service Garage
A. Bertozzi Inc.	IC0033	675	Office/Warehouse
Alfa Laval Inc.- Henrico	IC0036	495	Ind'l Manufacturing
Commonwealth Tents	IC0037	406	Warehouse
C Store & Retail	IC0041	601	Retail Strip
Valero Fas Mart & Handcraft	IC0044	419	Convenience Market
Bertozzi Inc.	IC0046	406	Warehouse
Bell Atlantic	IC0047	495	Ind'l Manufacturing
Southern Auto Repair	IC0048	528	Service Garage

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Site Name	IC ID	Use Code	Use Description
Brook Hill Electric	IC0049	675	Office/Warehouse
Blackstone	IC0050	453	Ind'l Flex Building
Custom Auto Tops	IC0051	410	Automotive/Retail Ctr
Asphalt Plant- Control Room	IC0052	495	Ind'l Manufacturing
Roy's Body Shop	IC0054	528	Service Garage
Ultrabronz Tanning Supply	IC0056	675	Office/Warehouse
LITTLE CAESARS	IC0057	349	Fast Food Restaurant
SRC Inc.	IC0059	406	Warehouse
Old World Prints (Villa Park 2)	IC0062	453	Ind'l Flex Building
7 ELEVEN INNSBROOK	IC0063	419	Convenience Market
Burgress Masonry	IC0064	453	Ind'l Flex Building
Ballos Precision Machine	IC0068	406	Warehouse
Gayton Terrace Assisted Living	IC0072	331	Hospitals/Health Care
Virginia Green	IC0074	406	Warehouse
Korman Signs	IC0076	406	Warehouse
Continental Contractors	IC0079	406	Warehouse
Acors & Griffith Heating	IC0080	406	Warehouse
West Broad Mini Storage	IC0083	386	Mini-Warehouse
C & P Telephone	IC0088	655	Utilities
Sarek AutoWerke	IC0089	406	Warehouse
Old Dominion Brush	IC0090	495	Ind'l Manufacturing
Korman Signs	IC0092	406	Warehouse
BP Food Mart	IC0096	603	Gas Station
BF Goodrich- Bill Crumpton	IC0097	410	Automotive/Retail Ctr
Retail Shops	IC0098	601	Retail Strip
A Capital Women's Health Clinic	IC0099	341	Office - Medical
Colonial Veterinary Hospital	IC0104	381	Veterinary Hospital
IMAGES UNLIMITED	IC0106	453	Ind'l Flex Building
CPR Leasing/H&H Supply	IC0107	675	Office/Warehouse
Highland Springs/ Farmers Foods	IC0109	414	Shopping Center
Technical Services, Inc.	IC0114	675	Office/Warehouse
Jiranek Medical Office	IC0115	341	Office - Medical
Brookhill Azalea Shopping Center	IC0116	414	Shopping Center
Randy's Auto Service	IC0117	408	Service Station
Auto Service Plus	IC0119	675	Office/Warehouse
U-Turn	IC0124	406	Warehouse
Quioccasin Shoppes	IC0129	601	Retail Strip
Quioccasin Sq Shpg Ctr	IC0130	601	Retail Strip
Gaskins Center III	IC0131	453	Ind'l Flex Building
Gaskins Center I	IC0132	453	Ind'l Flex Building

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Site Name	IC ID	Use Code	Use Description
K2 Trophies & Awards	IC0133	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
BFI Waste Sytems	IC0138	675	Office/Warehouse
Armstrong Cabinets	IC0139	406	Warehouse
711 STORE	IC0144	419	Convenience Market
Chamberlayne Farms Shopping Ct	IC0146	414	Shopping Center
Bell Atlantic Switching Statio	IC0147	655	Utilities
N&W Auction Warehouse	IC0148	406	Warehouse
Martinair, Inc	IC0156	665	Other Commercial
Dr. Auto	IC0157	528	Service Garage
W Broad VW/Audi Showroom	IC0162	455	Auto Dealership
Broyles Auto Service	IC0164	528	Service Garage
AUTO GLASS & WINDOW TINT	IC0165	528	Service Garage
SIMPLY IMPORT AUTO SERVICE	IC0166	410	Automotive/Retail Ctr
RAINBOW TIRE	IC0172	528	Service Garage
Independence Park Bldg #1	IC0173	341	Office - Medical
Southern Brick Contractors	IC0177	406	Warehouse
Lexington Court	IC0180	331	Hospitals/Health Care
Plastic Plus Awards Co.	IC0181	406	Warehouse
Hajoca Plumbing Supply	IC0183	406	Warehouse
North Run V	IC0185	675	Office/Warehouse
Canar Beverage	IC0186	675	Office/Warehouse
Limbach Co.	IC0187	528	Service Garage
PPG Industries	IC0188	406	Warehouse
Progressive	IC0189	675	Office/Warehouse
Strawberry Hill Landscaping	IC0192	675	Office/Warehouse
Meineke Muffler	IC0197	528	Service Garage
ICM Inc.	IC0198	406	Warehouse
Chestnut Grove Asst Liv	IC0204	331	Hospitals/Health Care
BP Gas & Convenience Store	IC0205	419	Convenience Market
Performance Food Group	IC0208	406	Warehouse
Riverside Logistics Warehouse	IC0211	406	Warehouse
Auto Advance Rent A Car	IC0217	528	Service Garage
Ralph Amernick & Co	IC0219	675	Office/Warehouse
Former Standard Auto Center	IC0221	528	Service Garage
Roy Houff Co.	IC0223	406	Warehouse
Mountain Road Pump Station	IC0232	655	Utilities
Fugro Roadware Inc.	IC0235	406	Warehouse
A & D Electric	IC0237	406	Warehouse
Steve & Sons	IC0239	406	Warehouse
Denton's Auto Service	IC0243	406	Warehouse
Wawa	IC0245	419	Convenience Market

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Site Name	IC ID	Use Code	Use Description
Cross Ridge Shopp. Ctr	IC0246	414	Shopping Center
Davey Tree Expert	IC0248	675	Office/Warehouse
Texaco	IC0250	419	Convenience Market
Interport 1	IC0252	406	Warehouse
RIR - former Roofers Edge Whse	IC0254	406	Warehouse
EAST TOWN PLAZA	IC0256	414	Shopping Center
EXTRA SPACE LABURNUM	IC0260	386	Mini-Warehouse
Facility Support	IC0261	453	Ind'l Flex Building
Fountain Square Shopping Cente	IC0262	414	Shopping Center
VA WOODCRAFTERS LLC	IC0263	406	Warehouse
Lindsay's Auto Body	IC0264	406	Warehouse
Clemons Welding & Fabrication	IC0265	495	Ind'l Manufacturing
India Plaza	IC0267	353	Retail Store
Railroad	IC0268	696	Railroad - Carrier
Belmont Golf Course	IC0273	630	Golf Courses
Shell Corner Mart	IC0274	419	Convenience Market
railroad	IC0275	696	Railroad - Carrier
WoCo Quick Trip	IC0278	419	Convenience Market
Pump Station & Water Tank	IC0279	655	Utilities
Water Pumping Strn.	IC0281	655	Utilities
Central Va.transmissions Inc	IC0285	528	Service Garage
Dunn's Center (Retail Strip)	IC0288	601	Retail Strip
Virginia Sprinkler, Dagenhart	IC0299	406	Warehouse
DABNEY B	IC0300	453	Ind'l Flex Building
Firestone Service Station	IC0303	410	Automotive/Retail Ctr
Patient First @ Woodman	IC0304	341	Office - Medical
Tuffy Muffler	IC0305	528	Service Garage
Graphic Art Service	IC0309	675	Office/Warehouse
84 LUMBER CO-WAREHOUSE	IC0310	406	Warehouse
Southern States/Chasen Whse	IC0311	406	Warehouse
Worth Higgins & Assoc.	IC0313	495	Ind'l Manufacturing
Honda House	IC0314	410	Automotive/Retail Ctr
Robert F. Douglas Bldg. 2	IC0315	601	Retail Strip
EMR MOTOR REPAIR	IC0319	675	Office/Warehouse
Arcet Welding Equip.	IC0325	406	Warehouse
LABURNUM SQUARE SHOPPING CNTR	IC0327	414	Shopping Center
Kenmore Envelope Company Inc.	IC0329	495	Ind'l Manufacturing
7 ELEVEN BROAD OLD SPRINGFIELD	IC0331	419	Convenience Market
B & K Import Service	IC0332	528	Service Garage
Henrico Water Tanks	IC0338	655	Utilities

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Site Name	IC ID	Use Code	Use Description
RICHMOND WEST	IC0340	455	Auto Dealership

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Site Name	IC ID	Use Code	Use Description
Dee Shoring Co.	IC0342	406	Warehouse
7 ELEVEN BROAD HUNGARY SPRING	IC0344	419	Convenience Market
Eclipse Closures Limited Liability Corp.	IC0347	495	Ind'l Manufacturing
CUBE SMART	IC0348	386	Mini-Warehouse
WATER TOWER	IC0354	655	Utilities
RICHMOND COMMERCIAL SVCS INC	IC0356	406	Warehouse
Clopay, Banner Industries	IC0358	406	Warehouse
Old Williamsburg Well	IC0360	655	Utilities
Exxon Conv. Store	IC0363	419	Convenience Market
Spring Arbor of Richmond	IC0365	331	Hospitals/Health Care
The Hub Shopping Center	IC0368	601	Retail Strip
LAUDERDALE SQUARE FOOD LION	IC0370	353	Retail Store
Splash N Dash	IC0374	435	Car Wash
Commonwealth Endodontics	IC0380	341	Office - Medical
Appliance Solutions	IC0382	406	Warehouse
Paxton Van Lines	IC0383	406	Warehouse
Diaz-Fensom Auto Service	IC0384	528	Service Garage
Off Road Innovations	IC0385	528	Service Garage
Jim & Glenn's Auto	IC0393	528	Service Garage
Glen Allen Service Station	IC0398	528	Service Garage
Neurosurgical Associates P.C.	IC0404	341	Office - Medical
Creative Industries	IC0406	675	Office/Warehouse
BP Mini Mart	IC0411	419	Convenience Market
MARTIN METAL	IC0412	495	Ind'l Manufacturing
Glenwood Farms Shopping Center	IC0417	601	Retail Strip
Interport (Bldg C)	IC0418	675	Office/Warehouse
Water Tank-Parham Rd	IC0419	655	Utilities
The Rec Room	IC0425	353	Retail Store
FOOD LION LLC	IC0428	353	Retail Store
Sunco	IC0429	528	Service Garage
VALERO	IC0434	419	Convenience Market
Varina Auto Service	IC0436	528	Service Garage
Design Tech exhibits Inc	IC0437	675	Office/Warehouse
Thompson Media Packaging, Inc	IC0438	406	Warehouse
DIRECT MAIL SOLUTIONS	IC0441	495	Ind'l Manufacturing
PEARSON KIA DEALERSHIP	IC0442	455	Auto Dealership
The Park at Dickens Place (A)	IC0443	453	Ind'l Flex Building
Neagle Auto Service	IC0450	528	Service Garage
A & R Cabinets	IC0451	406	Warehouse
GRAYBAR	IC0452	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
KEEP IT SIMPLE BUDGETING	IC0454	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
LIDL SUPERMARKET	IC0455	353	Retail Store
Holland Retail Strip	IC0458	601	Retail Strip
Aramark	IC0460	406	Warehouse
Springfield Veterinary Center	IC0467	381	Veterinary Hospital
Lisa & Co./ Envision	IC0468	406	Warehouse
WORLD CLASS AUTOMOTIVE GROUP	IC0471	406	Warehouse
Gaskins Center II (Wachovia)	IC0472	453	Ind'l Flex Building
Harris Elec. Off. Bldg	IC0476	675	Office/Warehouse
D.L Jones Plumbing	IC0480	406	Warehouse
MR. ASPHALT	IC0485	675	Office/Warehouse
Highwoods Airport Center I	IC0488	406	Warehouse
Enterprise & Harrison Body Works	IC0489	410	Automotive/Retail Ctr
The Dump	IC0490	620	Parks
Advertising Imaging	IC0498	675	Office/Warehouse
Quality Auto Service	IC0500	528	Service Garage
Radio Communications of Va.	IC0501	675	Office/Warehouse
Parham Doctors' Hospital	IC0502	331	Hospitals/Health Care
Hankins & Johann	IC0503	675	Office/Warehouse
Williamsburg Rd SC/Faith Plaza	IC0511	414	Shopping Center
Sermat Const. Services	IC0512	675	Office/Warehouse
Hen. Plaza Anthonys/Firestone	IC0513	414	Shopping Center
7-11 Store	IC0517	353	Retail Store
Commercial Surfaces, Inc.	IC0518	406	Warehouse
Exxon Shop	IC0520	419	Convenience Market
T.K. Hughes Auto Sales	IC0522	410	Automotive/Retail Ctr
FORMER INTERIOR SOLUTIONS	IC0524	675	Office/Warehouse
Glenside Center 1 & 2	IC0525	453	Ind'l Flex Building
Hughes Building	IC0529	406	Warehouse
Richmond Powder Coating	IC0534	495	Ind'l Manufacturing
Willow Lawn Shopping Center	IC0535	414	Shopping Center
Tirex	IC0537	528	Service Garage
Cottrell Business Systems	IC0544	675	Office/Warehouse
HAIR MATTERS BEAUTY SALON	IC0546	353	Retail Store
Race Track Deli & Pizza	IC0554	419	Convenience Market
Aamco Transmission	IC0555	410	Automotive/Retail Ctr
PRIORITY USED CAR SUPERCENTER	IC0557	410	Automotive/Retail Ctr
former Lawrence Dodge	IC0561	455	Auto Dealership
Dr. Monacell's Orthodontist Of.	IC0565	341	Office - Medical
Mobil Service Station	IC0571	408	Service Station
6316 Retail Shops	IC0572	601	Retail Strip

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Site Name	IC ID	Use Code	Use Description
Ind'f Flex Buidling, Building A	IC0575	453	Ind'I Flex Building

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Site Name	IC ID	Use Code	Use Description
Pods	IC0581	495	Ind'l Manufacturing
Tanner Moving & Storage	IC0583	406	Warehouse
HW MED SPA	IC0584	341	Office - Medical
Fletcher's Body Shop	IC0585	528	Service Garage
JAMES RIVER A/C COMPANY	IC0587	406	Warehouse
COMMONWEALTH MOVING & STG	IC0588	406	Warehouse
William M Korman Jr	IC0589	406	Warehouse
KSB, INC.	IC0590	495	Ind'l Manufacturing
Factory Direct Food Equipment	IC0591	495	Ind'l Manufacturing
Town & Country Auto	IC0592	410	Automotive/Retail Ctr
Hilldrup Transfer and Storage	IC0603	406	Warehouse
Smith' s Service Station	IC0604	528	Service Garage
OAKLEY CENTER LLC	IC0606	386	Mini-Warehouse
Oakley Center Bldg 5	IC0607	675	Office/Warehouse
KBS Acctg	IC0611	406	Warehouse
Wise Recycling	IC0613	406	Warehouse
Granville Sq. Retail Shops	IC0614	601	Retail Strip
SRM Automative	IC0616	406	Warehouse
RICHMOND DIST. CNT - BLDG D	IC0618	406	Warehouse
American Drum	IC0620	406	Warehouse
JUNIOR ACIEVEMENT/LOOMIS	IC0621	675	Office/Warehouse
FORMER LANCE	IC0622	406	Warehouse
RICHMOND DIST CNTR BLDG B	IC0623	406	Warehouse
RICHMOND DIST CNTR - BLDG A	IC0624	406	Warehouse
Body Creatures/Laurel Barber	IC0625	601	Retail Strip
ROVER SELF STORAGE	IC0628	386	Mini-Warehouse
Hauni Richmond	IC0632	495	Ind'l Manufacturing
Ridge Shopping Center (part)	IC0635	414	Shopping Center
VIRGINIA ORAL & FACIAL SURGERY	IC0641	341	Office - Medical
MERCEDES-BENZ OF RICHMOND	IC0642	455	Auto Dealership
Eastport IV	IC0645	675	Office/Warehouse
McGeorge Body Shop	IC0651	528	Service Garage
Eastport V	IC0652	675	Office/Warehouse
RIR- Fairgrounds Dist Whse	IC0655	406	Warehouse
Axselle Auto Service	IC0665	528	Service Garage
Carlton Scale	IC0668	675	Office/Warehouse

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Site Name	IC ID	Use Code	Use Description
Mini Price Warehouse	IC0673	386	Mini-Warehouse
Printing Services Inc.	IC0679	406	Warehouse
Grab-N-Go Conv. Store	IC0681	419	Convenience Market
HANGRY JOES HOT CHICKEN	IC0686	353	Retail Store
Site Name	IC ID	Use Code	Use Description
Burton's Automotive	IC0694	528	Service Garage

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Site Name	IC ID	Use Code	Use Description
Coastal Towing	IC0700	528	Service Garage
CAT The Rental Store	IC0701	406	Warehouse
J & T Repair	IC0702	528	Service Garage
Massey Builders Supply	IC0704	406	Warehouse
Lucky 's	IC0707	419	Convenience Market
Hundley Commerical Properties	IC0708	341	Office - Medical
Wright Motors	IC0709	406	Warehouse
C & O Railroad	IC0713	696	Railroad - Carrier
Commonwealth Heating	IC0717	406	Warehouse
QK & PK Convenience Store	IC0719	419	Convenience Market
WAWA	IC0720	419	Convenience Market
F.G. Pruitt Inc.	IC0726	528	Service Garage
VCU Short Pump Medical	IC0736	341	Office - Medical
Children's Dentistry	IC0738	341	Office - Medical
Richmond Medical Park	IC0739	341	Office - Medical
Royal	IC0740	455	Auto Dealership
The Shops at Staples Mill	IC0745	601	Retail Strip
Mullins/Redwine Dentist Office	IC0746	341	Office - Medical
Hungary Springs Shopping Center	IC0752	601	Retail Strip
Deep Run Trade Center	IC0754	453	Ind'l Flex Building
Jiffy Lube	IC0755	528	Service Garage
Laburnum Shopping Ctr.	IC0756	414	Shopping Center
Ball Office Supply	IC0758	406	Warehouse
former Budget Rent-a-car	IC0763	675	Office/Warehouse
Raeco Electric	IC0766	675	Office/Warehouse
Byrd Center-Bldg III- A	IC0768	453	Ind'l Flex Building
Penske Truck Leasing Co. L.P.	IC0772	410	Automotive/Retail Ctr
Estich Group, Inc.	IC0773	675	Office/Warehouse
Kinder-Morgan Operating LP	IC0778	495	Ind'l Manufacturing
PROPOSED BURGER MEDIA	IC0782	675	Office/Warehouse
Nine Mile Road Self Storage	IC0783	386	Mini-Warehouse
Car Quest Auto	IC0784	410	Automotive/Retail Ctr
Canterbury Distributors	IC0785	406	Warehouse
Morris Tile Distribution	IC0788	419	Convenience Market
J Express Mart + 4 stores	IC0789	601	Retail Strip
Sunrise Cottages Assisted Living	IC0793	331	Hospitals/Health Care
Valero Fas Mart	IC0795	419	Convenience Market
Accurate Installations	IC0796	675	Office/Warehouse
Pep Boys	IC0798	410	Automotive/Retail Ctr
Affiliated Dermatologists	IC0799	341	Office - Medical

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Site Name	IC ID	Use Code	Use Description
Ruffin & Payne Bldg 5	IC0800	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
L & S Radiator	IC0803	406	Warehouse
Virginia Tops Incorporated	IC0804	675	Office/Warehouse
Ruffin & Payne Office	IC0806	406	Warehouse
5700 AUDUBON WAREHOUSE	IC0819	406	Warehouse
TRUCK AND EQUIPMENT REPAIR	IC0820	406	Warehouse
Robertshaw Controls	IC0821	675	Office/Warehouse
All Tune & Lube/Arrow Transmsn	IC0823	528	Service Garage
Citgo Petro Express	IC0824	419	Convenience Market
Hess Gas Station	IC0828	603	Gas Station
Shanks Towing	IC0832	406	Warehouse
FASTENAL CO.	IC0833	675	Office/Warehouse
Gayton Center S.C.	IC0834	414	Shopping Center
Tuckahoe Shopping Center	IC0836	414	Shopping Center
The Shoppes at Mountain	IC0837	601	Retail Strip
Westbury Pharmacy S.C.	IC0839	414	Shopping Center
Smith Turf & Irrigation	IC0840	406	Warehouse
DABNEY CNTR BLDG IV	IC0843	453	Ind'l Flex Building
DOLLAR GENERAL	IC0849	353	Retail Store
TOTAL PACKAGING SERVICES	IC0850	495	Ind'l Manufacturing
PUMP ROAD SHOPPING CENTER	IC0852	414	Shopping Center
Virginia Import Service	IC0854	528	Service Garage
Beth Sholom Woods	IC0855	331	Hospitals/Health Care
Hudson Industries	IC0857	495	Ind'l Manufacturing
KODY HOLDINGS II LLC	IC0859	455	Auto Dealership
CAPITAL CHRYSLER JEEP DODGE	IC0863	455	Auto Dealership
Eubank Center- Building 1	IC0864	406	Warehouse
Gayton Bus. Center VII	IC0865	453	Ind'l Flex Building
Tru Green Lawn Care	IC0866	406	Warehouse
ADAMS ROAD OFFICE/WAREHOUSE	IC0867	675	Office/Warehouse
River Road Shopping Center	IC0868	414	Shopping Center
East End Furniture	IC0870	675	Office/Warehouse
Flushing Fairy Oriental Imp	IC0873	675	Office/Warehouse
Glenside Green	IC0879	601	Retail Strip
former Farm Fresh	IC0880	414	Shopping Center
Bryan Park Retail Strip	IC0882	601	Retail Strip
Grand Graphic Inc.	IC0884	495	Ind'l Manufacturing
Dominion Resources Hangar	IC0886	665	Other Commercial
Rehabilitation Hospital of Va.	IC0887	331	Hospitals/Health Care
Patient First at Short Pump	IC0888	341	Office - Medical
Richclean	IC0889	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
Integris Metals	IC0890	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
Landscape Supply	IC0891	453	Ind'I Flex Building
Fareva	IC0893	495	Ind'I Manufacturing
7 ELEVEN	IC0894	419	Convenience Market
Reames & Moyer, Inc.	IC0898	406	Warehouse
Broad St. Auto Service	IC0899	528	Service Garage
Eubank Center Bld A	IC0901	453	Ind'I Flex Building
7-11 Store	IC0903	419	Convenience Market
Carolina Components	IC0904	406	Warehouse
DTG OPERATIONS INC.	IC0906	406	Warehouse
Jiffy Lube	IC0907	423	Mini Lube
Richmond Fred & Potomac Railway Co	IC0912	696	Railroad - Carrier
Crown Castle tower	IC0913	675	Office/Warehouse
Keith Epps Automotive	IC0915	406	Warehouse
Proffitt- Closed	IC0918	495	Ind'I Manufacturing
Peebles Golf Car Sales, Inc.	IC0919	675	Office/Warehouse
FORMER TASH, INC.	IC0920	453	Ind'I Flex Building
CVS- Willow Lawn	IC0921	414	Shopping Center
Pulley's Body Shop	IC0922	528	Service Garage
Brittons Hill Warehouse	IC0923	406	Warehouse
Gate Gourmet	IC0924	675	Office/Warehouse
Michaels Used Auto Sales	IC0926	410	Automotive/Retail Ctr
Comcast Switch Station	IC0927	655	Utilities
Laburnum Station- Ashley Furn.	IC0929	414	Shopping Center
National Marketing Products	IC0934	406	Warehouse
Westland Shopping Center	IC0938	414	Shopping Center
Willow Lawn Shopping Center	IC0942	414	Shopping Center
Lakeside Medical Center	IC0943	341	Office - Medical
J.C. Penney Regency/ Firestone	IC0946	414	Shopping Center
Staples Mill SC	IC0948	414	Shopping Center
Libbie Place (Phase 1 &2)	IC0949	414	Shopping Center
Staples Mill Plaza	IC0951	414	Shopping Center
Print South Corporation	IC0952	495	Ind'I Manufacturing
Family Dentistry	IC0953	341	Office - Medical
Slurry Pavers	IC0958	675	Office/Warehouse
Smith & Co. Auto Service	IC0963	528	Service Garage
Slurry Pavers Inc.	IC0964	670	Construction Services
Patient First Med. Bldg	IC0965	341	Office - Medical
Former 7 ELEVEN	IC0968	419	Convenience Market
Corporate Imprints	IC0970	675	Office/Warehouse
Topside Warehouse	IC0971	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
Valero Fas Mart	IC0972	419	Convenience Market

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Site Name	IC ID	Use Code	Use Description
Wood Unlimited	IC0974	406	Warehouse
United Paper Co.	IC0980	406	Warehouse
T.J. Maxx SC	IC0982	414	Shopping Center
Shannon Station Phase I	IC0989	601	Retail Strip
Pilkington	IC0990	406	Warehouse
The Muffler Shop	IC0991	528	Service Garage
Beverly Hills Shopping Center	IC0993	414	Shopping Center
S&S Body Shop	IC0995	528	Service Garage
Complete Automotive Richmond	IC0996	528	Service Garage
Seredini Tire & Auto	IC0997	528	Service Garage
CHICK-FIL-A	IC1000	349	Fast Food Restaurant
Periodontics & Implantology	IC1004	341	Office - Medical
Stone's Office Equip-Service	IC1005	406	Warehouse
Jiffy Lube	IC1006	423	Mini Lube
Talley's Auto Service	IC1007	528	Service Garage
Elite Electric Supply	IC1010	675	Office/Warehouse
Merchant's Tire & Auto Center	IC1011	410	Automotive/Retail Ctr
Dabney Center #10	IC1012	453	Ind'l Flex Building
Gulf & Auto Service	IC1014	603	Gas Station
Praxair Healthcare Services	IC1015	675	Office/Warehouse
Sealand Frozen Foods	IC1018	406	Warehouse
Ryder Truck Rental	IC1019	675	Office/Warehouse
Dash in Shell	IC1020	419	Convenience Market
Route 6 Auto Repair	IC1022	528	Service Garage
Denton's Auto Service	IC1023	528	Service Garage
Patrick Kia	IC1025	455	Auto Dealership
Shell Conv. Mart	IC1027	419	Convenience Market
St. Mary's MOB South	IC1029	341	Office - Medical
J H Chappell PlumbingCo.	IC1031	675	Office/Warehouse
Crown Acura	IC1034	455	Auto Dealership
Sunoco Q Market	IC1036	419	Convenience Market
Air Metals Corp.	IC1037	675	Office/Warehouse
Superior Metal Fabricators	IC1038	406	Warehouse
Acoustical Solutions	IC1039	675	Office/Warehouse
Panera Bread Retail Strip	IC1040	601	Retail Strip
Unattended Fuel Fac. Quarles	IC1042	528	Service Garage
Charley's T Printing	IC1044	453	Ind'l Flex Building
PHO NEW YORK VIETNAMESE REST	IC1045	353	Retail Store
Shell Food Mart	IC1046	419	Convenience Market
St. Mary's MOB North	IC1048	341	Office - Medical

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Site Name	IC ID	Use Code	Use Description
St. Mary's MOB- West	IC1049	341	Office - Medical

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Site Name	IC ID	Use Code	Use Description
Podiatry Center	IC1050	341	Office - Medical
St. Mary's Parking Deck #1	IC1052	331	Hospitals/Health Care
Valero Mega Mart	IC1055	419	Convenience Market
South Motor Co.	IC1056	528	Service Garage
Valero Fas Mart	IC1057	419	Convenience Market
Uncle Bob's Self Service	IC1058	386	Mini-Warehouse
Gary's Auto Wholesale	IC1059	675	Office/Warehouse
Southworth Mech. Corp.	IC1062	406	Warehouse
7-11 Citgo	IC1064	419	Convenience Market
Farm Bureau	IC1065	406	Warehouse
Sears Roebuck	IC1067	406	Warehouse
Walker & Frick Construction	IC1073	675	Office/Warehouse
Cobb/East Coast	IC1078	406	Warehouse
7-11 Citgo	IC1081	419	Convenience Market
Office & Storage Warehouse	IC1082	675	Office/Warehouse
Veeco Support Facility	IC1084	495	Ind'l Manufacturing
Mountain Rd Substation	IC1085	655	Utilities
8033 Kimway Dr Office/Whse	IC1089	675	Office/Warehouse
Brinks	IC1094	675	Office/Warehouse
Valero FasMart	IC1096	419	Convenience Market
Valero Fasmart	IC1097	419	Convenience Market
Ready Mixed Concrete Co	IC1098	495	Ind'l Manufacturing
Fast Eddie's Car Wash	IC1102	435	Car Wash
Williams Mail Service	IC1106	528	Service Garage
7-11	IC1109	419	Convenience Market
Dominion Power substation	IC1110	655	Utilities
Audubon Crossing Shopping Center	IC1114	601	Retail Strip
Extra Attic- Springfield	IC1115	386	Mini-Warehouse
Gold's Gym Plaza @ West Tower	IC1116	414	Shopping Center
Tuckahoe Village Shopping Center	IC1118	414	Shopping Center
Thompson Insurance	IC1119	675	Office/Warehouse
Highland Springs Primary Care	IC1122	341	Office - Medical
Firestone Tire Store	IC1130	410	Automotive/Retail Ctr
Lauderdale Square S.C.	IC1131	414	Shopping Center
Circle K #28	IC1132	419	Convenience Market
Corner Bakery	IC1133	350	Restaurant
Tribble Electric	IC1135	406	Warehouse
Northbank Auto Sales, Inc.	IC1138	528	Service Garage
Highland Springs Medical Center	IC1140	341	Office - Medical
All Dog Adventures	IC1141	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
McGeorge Toyota/Scion	IC1142	455	Auto Dealership

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Site Name	IC ID	Use Code	Use Description
Small Car Specialty Co	IC1146	528	Service Garage
Spring Oak Retail	IC1147	601	Retail Strip
Yellow Cab	IC1148	410	Automotive/Retail Ctr
Savannah Motors Auto Sales	IC1149	528	Service Garage
Tuckahoe Medical Center	IC1151	341	Office - Medical
Valero Fast Mart	IC1152	419	Convenience Market
CCS (formerly VIMCO)	IC1153	495	Ind'l Manufacturing
Home Paramount Pest Control	IC1154	528	Service Garage
Dabney Trade Center	IC1156	675	Office/Warehouse
Red Jenkins Auto Center	IC1158	528	Service Garage
Fuqua & Sheffield + VA Millwrk	IC1159	675	Office/Warehouse
Stationers Inc.	IC1160	675	Office/Warehouse
Mosquito Squad	IC1161	675	Office/Warehouse
4411 Jacque St. Warehouse	IC1162	495	Ind'l Manufacturing
R E Michel Inc	IC1163	406	Warehouse
Southside Cremation Services	IC1164	675	Office/Warehouse
Bob Whitaker Motors	IC1165	410	Automotive/Retail Ctr
Monument Professional Center	IC1167	341	Office - Medical
Walder, Wilfred M. Jr.	IC1168	675	Office/Warehouse
JM Keyser	IC1169	675	Office/Warehouse
Infilco Degremont Inc.	IC1170	406	Warehouse
U.S. Postal Package Sorting	IC1172	406	Warehouse
Rental Works	IC1175	528	Service Garage
Total Printing	IC1176	495	Ind'l Manufacturing
Environmental Solutions	IC1177	675	Office/Warehouse
Ridgefield Medical Center	IC1178	341	Office - Medical
Lonnie Elis Auto Sales	IC1179	455	Auto Dealership
Bldg 1 (2704) Anord Mardix	IC1180	406	Warehouse
DiTech	IC1181	406	Warehouse
Westhampton Dialysis	IC1182	601	Retail Strip
CRH Vending/Catering	IC1183	406	Warehouse
Villa Park I	IC1184	675	Office/Warehouse
Laser Serv	IC1185	406	Warehouse
Preston Auto Repair	IC1187	408	Service Station
Lexington Commons II	IC1188	414	Shopping Center
Richmond Bumper #3	IC1189	406	Warehouse
Glenburnie Nursing Home	IC1190	331	Hospitals/Health Care
Smartbox	IC1192	406	Warehouse
Libbie Medical Center	IC1194	341	Office - Medical
Short Pump Animal Hospital	IC1195	381	Veterinary Hospital

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Site Name	IC ID	Use Code	Use Description
Valvoline Quick Lube	IC1197	423	Mini Lube

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Site Name	IC ID	Use Code	Use Description
BP Convenience Food/Gas	IC1198	419	Convenience Market
Dental Office	IC1201	341	Office - Medical
Merchant's Tire & Auto Center	IC1203	410	Automotive/Retail Ctr
Loving Pets Crematorium	IC1205	675	Office/Warehouse
MUNN DENTISTRY	IC1206	341	Office - Medical
Dollar General	IC1207	353	Retail Store
Wilton Whse Bldg #1	IC1208	406	Warehouse
B.W. Wilson Paper Co.	IC1210	406	Warehouse
West Broad Honda	IC1213	455	Auto Dealership
Bob Windsor Contractor	IC1214	675	Office/Warehouse
Utilities Parcel on Turner Rd	IC1219	655	Utilities
Waco & SprectraSite Tower	IC1220	406	Warehouse
Va. Power District Office	IC1223	406	Warehouse
VA ELECTRIC & POWER CO	IC1225	655	Utilities
Aramark Warehouse	IC1229	675	Office/Warehouse
Techpark Warehouse I	IC1231	675	Office/Warehouse
Richmond Allergy & Asthma	IC1238	341	Office - Medical
Pouncey Tract Daycare	IC1247	341	Office - Medical
Korman Signs Inc.	IC1248	495	Ind'l Manufacturing
Beth Sholom Nursing Home	IC1249	331	Hospitals/Health Care
Form. Haskell Chemical Co	IC1252	406	Warehouse
Acorn Sales Co	IC1254	406	Warehouse
Korman Signs	IC1255	406	Warehouse
Cool Lane Shopping Center	IC1258	414	Shopping Center
Landmark Tech Center II	IC1259	406	Warehouse
Winn's Hauling Inc	IC1263	406	Warehouse
Solomon Learning Center	IC1267	601	Retail Strip
Formal Wear	IC1269	406	Warehouse
EAST COAST OXYGEN/LAMBS BASKET	IC1270	406	Warehouse
PEARSON CHRYSLER, DODGE	IC1271	455	Auto Dealership
Autoport	IC1275	601	Retail Strip
Meredith Branch Pumping Stn.	IC1276	655	Utilities
Mattress King whse	IC1283	406	Warehouse
Colonnades West Shopping Cntr	IC1285	414	Shopping Center
Commonwealth Of Va	IC1287	406	Warehouse
Worth Higgins Printing	IC1290	406	Warehouse
Town Center at Twin Hickory 1	IC1291	414	Shopping Center
Fairfax Limited Warehouse	IC1295	406	Warehouse
SHORT PUMP CROSSING PUBLIXS	IC1298	353	Retail Store
7-11 Store #19347	IC1300	419	Convenience Market

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Site Name	IC ID	Use Code	Use Description
Lakeside Auto	IC1302	528	Service Garage

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Site Name	IC ID	Use Code	Use Description
Fishman Inc.	IC1304	406	Warehouse
R & B Hat Co.	IC1306	406	Warehouse
Mechanicsville Center II	IC1307	601	Retail Strip
HONDOS	IC1310	601	Retail Strip
Weaver Transmission Service	IC1311	528	Service Garage
The Village Shop. Center	IC1321	414	Shopping Center
Matthews Auto Repair	IC1322	406	Warehouse
Citgo Friendly Quick Mart	IC1324	419	Convenience Market
GULF	IC1326	419	Convenience Market
United Parcel Service	IC1328	665	Other Commercial
Woodland Center IV	IC1330	675	Office/Warehouse
Interport Business Center (B)	IC1332	406	Warehouse
FAMILY DENTISTRY, DR REDDY	IC1333	341	Office - Medical
Southeast Frozen Foods	IC1337	406	Warehouse
SHELL CORNER MART/DUNKIN DONUT	IC1338	419	Convenience Market
Parham Road Self Storage	IC1343	386	Mini-Warehouse
Doctor Jessup Office	IC1346	341	Office - Medical
Hanover Printing Co.	IC1347	406	Warehouse
Old Dominion Brush Co	IC1348	495	Ind'l Manufacturing
Service Station	IC1349	408	Service Station
Prudential Ins. Co.	IC1352	406	Warehouse
TACO BELL PATTERSON AVENUE	IC1357	349	Fast Food Restaurant
Tuckahoe Tire Country-Goodyear	IC1358	410	Automotive/Retail Ctr
THE SHOPPES AT WESTGATE	IC1362	414	Shopping Center
Goodyear at Virginia Center	IC1363	410	Automotive/Retail Ctr
Windsor Park 2	IC1365	453	Ind'l Flex Building
Promenade Shops	IC1368	414	Shopping Center
Trust Care Home Medical Equipment	IC1370	453	Ind'l Flex Building
R.J. Mart	IC1373	528	Service Garage
Virginia Center Marketplace	IC1376	414	Shopping Center
Virginia Elevator Co. Inc.	IC1377	406	Warehouse
Merchant's Tire & Auto Center	IC1380	410	Automotive/Retail Ctr
NUCKOLS PLACE	IC1382	414	Shopping Center
Aragon Air Center	IC1383	406	Warehouse
Family Dentistry & Orthodontic	IC1385	341	Office - Medical
Applied Industrial Technology	IC1386	675	Office/Warehouse
Wawa #682	IC1388	419	Convenience Market
Adv. Orthopaedics Ctr West-Bld	IC1390	341	Office - Medical
Hohner Office/Warehouse	IC1391	675	Office/Warehouse
Miller's Convenience Store	IC1393	419	Convenience Market

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Site Name	IC ID	Use Code	Use Description
Gayton Business Center VIII	IC1395	675	Office/Warehouse

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Site Name	IC ID	Use Code	Use Description
TECHWAY SECURITY SYSTEMS	IC1399	675	Office/Warehouse
International Church	IC1400	675	Office/Warehouse
Glen Eagles Medical Office Bld	IC1401	341	Office - Medical
Pier 1 Center	IC1405	601	Retail Strip
Mayland Place	IC1407	453	Ind'l Flex Building
Shell Convenience Mart.	IC1408	419	Convenience Market
Integrated Power Sources of VA	IC1411	406	Warehouse
Prudential Overall Supply	IC1412	406	Warehouse
Blue & Gray (Gayton Centre)	IC1413	386	Mini-Warehouse
Budget Truck Rental	IC1419	406	Warehouse
RyanHerco Inc.	IC1420	675	Office/Warehouse
DMA Floors	IC1423	675	Office/Warehouse
West End Academy of Dance	IC1424	665	Other Commercial
DUNKIN DONUTS RIDGEFIELD	IC1425	349	Fast Food Restaurant
Property Technologies	IC1427	675	Office/Warehouse
Cadmus Specialty Publications	IC1428	495	Ind'l Manufacturing
Glen Forest Medical Center	IC1430	341	Office - Medical
Parking Lot-Richmond BMW	IC1432	455	Auto Dealership
Windsor 5	IC1436	453	Ind'l Flex Building
Shops at Best Buy	IC1440	601	Retail Strip
AMERICAN DOORS & GLASS	IC1441	406	Warehouse
Dominion Village S.C.	IC1442	601	Retail Strip
Extra Space Airport	IC1444	386	Mini-Warehouse
CROSSRIDGE S.C. MARTIN'S	IC1446	414	Shopping Center
THE SHOPS @ TWIN OAKS	IC1447	414	Shopping Center
Aspen Park	IC1448	453	Ind'l Flex Building
Aspen Park	IC1449	453	Ind'l Flex Building
Extra Attic Mini Stg (Airport)	IC1454	386	Mini-Warehouse
Aspen Park	IC1456	453	Ind'l Flex Building
Aspen Park	IC1457	453	Ind'l Flex Building
Former Rainbow Stn. Shop Ctr.	IC1458	601	Retail Strip
Citgo Gas Station	IC1463	603	Gas Station
Westland Retail Strip	IC1465	601	Retail Strip
Jiffy Lube	IC1466	528	Service Garage
Dabney VI	IC1471	453	Ind'l Flex Building
US Post Office Distribution	IC1472	406	Warehouse
Dominion Fiber Technologies	IC1473	406	Warehouse
Elko Wastewater Pump Station	IC1479	655	Utilities
Halls Tire	IC1485	675	Office/Warehouse
Toro Bldg	IC1487	675	Office/Warehouse

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Site Name	IC ID	Use Code	Use Description
Old Parham Center	IC1491	601	Retail Strip

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Site Name	IC ID	Use Code	Use Description
Ackley Park II	IC1494	675	Office/Warehouse
Pt Of Massey Builders	IC1497	406	Warehouse
McGeorge Toyota Cert Used Cars	IC1498	455	Auto Dealership
Ind'I Flex Building on Charles city Rd	IC1499	453	Ind'I Flex Building
Midas Muffler	IC1501	528	Service Garage
Panda Express	IC1502	349	Fast Food Restaurant
KDR Real Estate Services	IC1503	675	Office/Warehouse
Merchants Square Shopping Ctr	IC1504	601	Retail Strip
Exxon Conv Mart / Xpress Lube	IC1505	419	Convenience Market
Tuckahoe Cleaners@Maybeury S.C	IC1506	601	Retail Strip
Art Guild Inc.b	IC1509	495	Ind'I Manufacturing
Unisource	IC1510	406	Warehouse
EXXON CIRCLE K	IC1512	419	Convenience Market
Shops @ Crossridge	IC1513	601	Retail Strip
Bon Secours Heart Institute	IC1515	341	Office - Medical
Forest Ambulance Service	IC1517	675	Office/Warehouse
Tech Park B (DEQ Building)	IC1519	675	Office/Warehouse
County of Henrico Warehouse	IC1520	406	Warehouse
Retail shops on Mechanicsville Dr	IC1521	601	Retail Strip
Ben Franklin Dabney Rd	IC1522	453	Ind'I Flex Building
Shuttle Lot A	IC1524	685	Misc. Services
Goodyear Tire Center	IC1525	410	Automotive/Retail Ctr
7-11 Store	IC1526	419	Convenience Market
Maddux Electrical Supply	IC1527	406	Warehouse
EURO IMPORT SERVICE	IC1530	528	Service Garage
Angelus Funeral & Crem. Trad.	IC1544	675	Office/Warehouse
National Distributing Co.	IC1545	406	Warehouse
PUBLIC STORAGE	IC1547	386	Mini-Warehouse
DOLLAR GENERAL	IC1548	353	Retail Store
Rush Truck Leasing	IC1549	406	Warehouse
The Car Mart	IC1550	528	Service Garage
Flagstop Car Wash	IC1554	435	Car Wash
Woodlands Building #1 Mid Atln	IC1555	453	Ind'I Flex Building
DASH IN SHELL WEST BROAD	IC1556	419	Convenience Market
HEADLIGHTS TO TAILPIPES INC	IC1557	528	Service Garage
REAMES & MOYER	IC1560	326	Storage Garage
EXXONS MARKET CAFE	IC1563	419	Convenience Market
Select Specialty Hospital	IC1564	331	Hospitals/Health Care
Short Pump Corner Retail Strip	IC1568	414	Shopping Center
Roy's Express Mart	IC1571	419	Convenience Market

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Site Name	IC ID	Use Code	Use Description
CAFÉ BIDA PAI LIN MKT VIDEO	IC1575	601	Retail Strip

HENRICO COUNTY MS4 PROGRAM PLAN

Site Name	IC ID	Use Code	Use Description
J.M. Fry Co.	IC1578	406	Warehouse
Canterbury Shop. Ctr.	IC1579	414	Shopping Center
Pickels Allen- Ace Electricu	IC1583	406	Warehouse
Rennie's Citgo	IC1591	419	Convenience Market
Swift Transportation Truck Ter	IC1595	528	Service Garage
Multi tenant - J O Contractors	IC1596	406	Warehouse
former Thrifty Car Rental	IC1597	685	Misc. Services
EAST END TIRE	IC1608	528	Service Garage
Regency Mall	IC1611	414	Shopping Center
Pestmasters	IC1612	675	Office/Warehouse
WESTPARK SHOPPING CENTER	IC1613	414	Shopping Center
Converge Signs Plus	IC1615	528	Service Garage
DUNKIN DONUTS LAUDERDALE DR	IC1616	349	Fast Food Restaurant
LOCKWOOD BROADCASTING GROUP	IC1618	675	Office/Warehouse
Deuce Customs	IC1620	528	Service Garage
Dr. Motorworx	IC1621	528	Service Garage
Macy's at Va. Center Commons	IC1632	414	Shopping Center
DR. ROFFIS	IC1635	341	Office - Medical
Beth Sholom Assisted Living	IC1641	331	Hospitals/Health Care
EXTRA SPACE WEST END DR	IC1646	386	Mini-Warehouse
EXTRA SPACE WILLOW LAWN	IC1649	386	Mini-Warehouse
Evans Construction	IC1650	406	Warehouse
Staples Mill Auto Care	IC1652	528	Service Garage
Coston Floors	IC1657	675	Office/Warehouse
Short Pump Crossing Retail	IC1665	601	Retail Strip
St Mary's Hospital	IC1670	331	Hospitals/Health Care
Kroger-Gayton Crossing	IC1671	353	Retail Store
Ample Retail Stores	IC1676	601	Retail Strip
Mobility Printing	IC1677	675	Office/Warehouse
Shurm PSV Water Station	IC1678	655	Utilities
J.W. Bastian Mechanical	IC1683	406	Warehouse
BETH SHOLOM ASSISTED LIVING	IC1692	331	Hospitals/Health Care
West Engineering	IC1697	495	Ind'l Manufacturing
FAIRFIELD SHOPPERS WORLD	IC1700	414	Shopping Center
Zoom Printing	IC1716	675	Office/Warehouse
NORTH RUN I & II	IC1717	497	Computer Center
Staples Mill Auto Service	IC1718	406	Warehouse
BHAVANI CASH AND CARRY	IC1721	601	Retail Strip
Lakeside Mini Storage	IC1722	386	Mini-Warehouse
Windsor Bldg VI	IC1723	453	Ind'l Flex Building

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Site Name	IC ID	Use Code	Use Description
FIRST MED	IC1725	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
Parham Forest	IC1726	453	Ind'I Flex Building
Va Mach & Well	IC1730	406	Warehouse
RICHMOND DIST CNTR BLDG C-1	IC1743	406	Warehouse
Trackside Auto Sales	IC1744	528	Service Garage
MEADOWOOD SQUARE SC	IC1747	414	Shopping Center
Town Center West-Building #1	IC1748	414	Shopping Center
Short Pump Medical Office	IC1750	341	Office - Medical
Town Center West - Bldg 7	IC1752	414	Shopping Center
Town Center West - Bldg 6	IC1756	414	Shopping Center
The Shoppes at Lakeside South	IC1761	601	Retail Strip
SPIVEY	IC1762	406	Warehouse
Specified Tile & Flooring	IC1763	675	Office/Warehouse
Game Stop Retail Strip	IC1768	601	Retail Strip
Richmond Bumper	IC1769	406	Warehouse
Greater Unity Adult Services	IC1772	675	Office/Warehouse
Battlefield Veterinary Clinic	IC1773	381	Veterinary Hospital
CREEKS AT VIRGINIA CENTER 1	IC1774	414	Shopping Center
CHARLES CITY ROAD SEWER PS	IC1777	655	Utilities
Dunbar Armored	IC1778	675	Office/Warehouse
Virginia Oral Facial Surgery	IC1780	341	Office - Medical
Westbury Shopping Center	IC1784	414	Shopping Center
Dabney Center Bldgs. 5 & 8	IC1786	453	Ind'I Flex Building
Wachter Ida	IC1789	675	Office/Warehouse
Gayton Crossing 2	IC1790	414	Shopping Center
ENGINEERING DESIGN AND DEV INC	IC1795	675	Office/Warehouse
RIDGE SHOPPING CENTER PART	IC1796	414	Shopping Center
Our Lady Of Hope Health Care	IC1798	331	Hospitals/Health Care
Interport - Building A	IC1805	406	Warehouse
Yahley Mill Vent Facility	IC1806	655	Utilities
Race Track Marketplace	IC1810	419	Convenience Market
FORMER DIRECT SOLUTIONS	IC1817	675	Office/Warehouse
Mountain Road Substation	IC1828	655	Utilities
Longfellow Interiors Inc	IC1829	675	Office/Warehouse
Crane Masters	IC1831	406	Warehouse
Family Dentistry	IC1833	341	Office - Medical
Quick Stop Food Store	IC1834	419	Convenience Market
WESTMINSTER CANTERBURY	IC1847	331	Hospitals/Health Care
Henrico Doctors Hospital	IC1848	331	Hospitals/Health Care
Ukrops Westmoreland Complex	IC1849	675	Office/Warehouse
Gundlach Heating and Plumbing	IC1857	675	Office/Warehouse

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Site Name	IC ID	Use Code	Use Description
4200-4222 Sarellen Warehouse	IC1858	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
Canada Contracting	IC1865	675	Office/Warehouse
Regency Tire & Auto	IC1868	408	Service Station
Kings Daughters Thrift Store	IC1869	528	Service Garage
RICHMOND BASEBALL ACADEMY WEST	IC1870	453	Ind'l Flex Building
Hershey's Creamery	IC1874	406	Warehouse
Costa Del Sol	IC1882	419	Convenience Market
Genik, Inc.	IC1886	495	Ind'l Manufacturing
Shell Food Mart	IC1888	419	Convenience Market
Gayton Crossing I	IC1891	414	Shopping Center
Tomlyn Business Center	IC1898	675	Office/Warehouse
Woodland Center I	IC1903	675	Office/Warehouse
SHEETZ EMERYWOOD	IC1906	419	Convenience Market
Forest Medical Plaza	IC1907	341	Office - Medical
Premier Store Fixtures Inc.	IC1908	495	Ind'l Manufacturing
Amerisouce Bergen	IC1909	406	Warehouse
Weyerhaeuser Warehouse	IC1910	406	Warehouse
JOHN ROLFE COMMONS PUBLIX	IC1920	353	Retail Store
AlphaGraphics	IC1924	406	Warehouse
Gusti Sheet Metal & Welding	IC1928	528	Service Garage
Part of Cook Out	IC1929	349	Fast Food Restaurant
ROCKIT SPORTS	IC1932	406	Warehouse
Trampton Center - Bldg. B	IC1933	453	Ind'l Flex Building
Harvey's Transmission	IC1936	406	Warehouse
PRM READY MIX CONCRETE PLANT	IC1938	495	Ind'l Manufacturing
Gaskins Rd Medical office Bld	IC1939	341	Office - Medical
PART OF LABURNUM PARK SC	IC1945	414	Shopping Center
MY GUYS MOVING AND STORAGE	IC1953	495	Ind'l Manufacturing
DOMINION CHEV-BUICK-GMC	IC1957	455	Auto Dealership
Parham Green	IC1961	601	Retail Strip
MARATHON	IC1962	419	Convenience Market
Tuckernuck Square SC	IC1967	414	Shopping Center
Miles Auto Service	IC1969	675	Office/Warehouse
BMG Metals	IC1970	406	Warehouse
North Park Center	IC1972	675	Office/Warehouse
Nicholson Sprinkler Corp	IC1973	453	Ind'l Flex Building
Montgomery Body Shop	IC1975	675	Office/Warehouse
Somers Wilton Inc	IC1977	675	Office/Warehouse
RENT-A-WRECK	IC1979	455	Auto Dealership
S & S Bodyshop	IC1981	528	Service Garage
BROWN DISTRIBUTING	IC1985	675	Office/Warehouse

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Site Name	IC ID	Use Code	Use Description
Stuart's Crossing	IC1987	601	Retail Strip

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Site Name	IC ID	Use Code	Use Description
FAIRGROUNG DIST. CNTR. BLDG H	IC1988	406	Warehouse
5102-5114 Glen Adlen Off/Whse	IC1990	675	Office/Warehouse
Richmond Cold Storage	IC1991	406	Warehouse
Kraft- Nabisco	IC1992	495	Ind'l Manufacturing
Glen Allen Towing and Recovery	IC1994	406	Warehouse
Horizon Food Store	IC1997	419	Convenience Market
NORTH RUN III	IC1998	675	Office/Warehouse
TITLEMAX	IC1999	353	Retail Store
7-11 Store	IC2000	419	Convenience Market
Los Rios/DeFazio/Rich. Dance	IC2001	601	Retail Strip
Capital GMC/Pontiac	IC2002	455	Auto Dealership
VIRGINIA GREEN LAWN CARE	IC2004	406	Warehouse
Henrico Tool & Die Co.	IC2005	495	Ind'l Manufacturing
James River Irrigation, Inc.	IC2008	675	Office/Warehouse
General Tile & Marble	IC2011	495	Ind'l Manufacturing
AGC Glass Company North America	IC2015	406	Warehouse
Tuckahoe Veterinary	IC2021	381	Veterinary Hospital
FLEXENTIAL (PEAK 10)	IC2025	497	Computer Center
Shady Grove Animal Clinic	IC2026	381	Veterinary Hospital
Chewning & Wilmer, Inc.	IC2029	406	Warehouse
ISABEL TAQUERIA	IC2036	353	Retail Store
VASCO AUTO PARTS	IC2039	675	Office/Warehouse
WIKOFF COLOR OFFICE & WH	IC2044	675	Office/Warehouse
Parham Medical Village	IC2045	341	Office - Medical
Va Food Bank	IC2049	406	Warehouse
B & R Rebar Warehouse	IC2051	406	Warehouse
Puritan Cleaners	IC2053	675	Office/Warehouse
Chevron Food Mart	IC2054	419	Convenience Market
Parham One S/C	IC2056	414	Shopping Center
Maybeury North S/C	IC2061	601	Retail Strip
Porter Walnut Hill Whs	IC2067	406	Warehouse
BEAMON PROPERTIES - BUILDING A	IC2072	453	Ind'l Flex Building
LAKESIDE HEATING AND PLBG	IC2075	406	Warehouse
Jiffy Lube	IC2076	423	Mini Lube
Harry Ekloff and Assoc. Inc.	IC2083	406	Warehouse
Duke Excavating Services	IC2085	670	Construction Services
The J.H Elliott Co.	IC2090	675	Office/Warehouse
Parham Plaza Shopping Center	IC2092	414	Shopping Center
Reddy Ice Corporation	IC2094	495	Ind'l Manufacturing
Gleneagles Shopping Center	IC2096	414	Shopping Center

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Site Name	IC ID	Use Code	Use Description
Lakeside Animal Clinic	IC2097	381	Veterinary Hospital

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Site Name	IC ID	Use Code	Use Description
Warehouse Hankins & Johann Inc	IC2099	406	Warehouse
NYW Trading LLC	IC2102	495	Ind'l Manufacturing
Joyners Mechanical Inc.	IC2103	675	Office/Warehouse
Goodyear - Allen's Tire	IC2107	410	Automotive/Retail Ctr
CSX TRANSPORTATION INC	IC2110	697	Railroad - Non Carrier
COMPETITIVE EDGE KARATE	IC2115	453	Ind'l Flex Building
former Hilliard Rd Veterianary	IC2117	381	Veterinary Hospital
ABC Supply Co., Inc.	IC2119	406	Warehouse
VALERO TWIN HICKORY	IC2120	419	Convenience Market
Gibrall Ins. Agency (1 or 2)	IC2124	453	Ind'l Flex Building
CIRCEO MEDICAL BLDG	IC2138	341	Office - Medical
COLOR TREE	IC2146	406	Warehouse
PARHAM HEALTHCARE AND REHAB	IC2147	331	Hospitals/Health Care
Commonwealth Of Va	IC2150	406	Warehouse
FORMER TUFFY AUTO	IC2152	419	Convenience Market
St Marys MOB IV	IC2154	341	Office - Medical
Shell Food Mart	IC2155	419	Convenience Market
Henrico Doctors MOB III	IC2156	341	Office - Medical
Pine Dell Shopping Center	IC2157	601	Retail Strip
Laurel Green Retail Strip	IC2159	601	Retail Strip
Allied Electronics	IC2160	675	Office/Warehouse
Sonnys Painting/SRM Automotive	IC2162	406	Warehouse
MERCER AND WOODSON AUTOMOTIVE	IC2167	528	Service Garage
St Marys MOB North 6-7 floors	IC2168	341	Office - Medical
LAWRENCE ENVIRONMENTAL GROUP	IC2169	675	Office/Warehouse
Town Center At Twin Hickory 2	IC2170	414	Shopping Center
DUNKIN DONUTS	IC2177	349	Fast Food Restaurant
Locke Taylor Animal Clinic	IC2180	381	Veterinary Hospital
ZELLER GMELIN CORPORATION	IC2181	406	Warehouse
RF Michel Co. (Tenant)	IC2182	675	Office/Warehouse
The Shoppes at Lakeside South	IC2183	601	Retail Strip
Exhibits, Inc. (Tenant)	IC2185	406	Warehouse
Amerco Real Estate (UHaul)	IC2188	675	Office/Warehouse
Wilton Whse #10	IC2190	453	Ind'l Flex Building
David Word Automotive	IC2193	528	Service Garage
Technical Foundations Inc	IC2198	675	Office/Warehouse
Morningside in the West End	IC2206	331	Hospitals/Health Care
DIVISION 1 MOVING & STORAGE	IC2207	675	Office/Warehouse
Carter Lumber	IC2208	495	Ind'l Manufacturing
Cosby Appliance	IC2209	406	Warehouse

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Site Name	IC ID	Use Code	Use Description
Public Storage	IC2210	386	Mini-Warehouse

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Site Name	IC ID	Use Code	Use Description
Wawa #677	IC2221	419	Convenience Market
Commonwealth Assisted Living	IC2224	331	Hospitals/Health Care
Pet Paradise	IC2226	381	Veterinary Hospital
Verizon Center (7300-7336)	IC2230	601	Retail Strip
Dabney IX	IC2234	453	Ind'l Flex Building
NYW Enterprises, LLC	IC2238	495	Ind'l Manufacturing
WEST BROAD COMMONS SHOPPING CT	IC2240	414	Shopping Center
DABNEY XI & II	IC2241	453	Ind'l Flex Building
Rite Aid & Retail Shops	IC2242	601	Retail Strip
Pemberton Corp.	IC2243	670	Construction Services
CONQUEST GRAPHICS	IC2244	495	Ind'l Manufacturing
GENERAL AUTO SALES RIVER CITY	IC2246	528	Service Garage
AMEC	IC2252	453	Ind'l Flex Building
Dunkham Auto Service	IC2254	528	Service Garage
STAPLES SIERRA HOMEGOODS	IC2261	353	Retail Store
7-11 Store	IC2262	419	Convenience Market
Binswanger Glass	IC2266	528	Service Garage
Shade & Wise	IC2271	406	Warehouse
Croftin Green S/C	IC2272	601	Retail Strip
ELKO WPS AND TANKS	IC2273	655	Utilities
NEW MARKET SQUARE SC	IC2275	414	Shopping Center
MICROBAC	IC2289	453	Ind'l Flex Building
WAFFLE HOUSE INC	IC2295	350	Restaurant
Shops at Brook Road Bldg C	IC2296	601	Retail Strip
DOMINION	IC2297	406	Warehouse
Wash Your Way RVA	IC2298	435	Car Wash
EXTRA ATTIC MINI STG AIRPORT	IC2301	386	Mini-Warehouse
Lucky Mart	IC2302	419	Convenience Market
Dabney I	IC2303	406	Warehouse
Aragon Air Center	IC2306	453	Ind'l Flex Building
THE COMPASS SCHOOL	IC2307	453	Ind'l Flex Building
Hungary Brook SC	IC2308	414	Shopping Center
POINTERS FOOD MART	IC2328	419	Convenience Market
7 ELEVEN	IC2330	419	Convenience Market
Hamlin Homes	IC2332	453	Ind'l Flex Building
Azalea Food Market & Deli	IC2338	419	Convenience Market
TAN A Plaza	IC2346	601	Retail Strip
Virginia Ear, Nose, & Throat	IC2348	341	Office - Medical
Virginia Endocrinology	IC2349	341	Office - Medical
Bill Talley Paint & Body	IC2357	680	Other Repair Services

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Site Name	IC ID	Use Code	Use Description
HYMAN BROS AUTOMOBILES	IC2358	455	Auto Dealership
Bertozzi Racing	IC2359	406	Warehouse
Medical Care	IC2362	341	Office - Medical
UNIT 14 - CARMAX	IC2376	453	Ind'l Flex Building
Showbest Fixture Company	IC2377	406	Warehouse
Rail road	IC2380	696	Railroad - Carrier
TRANSIT LUMBER, OFFICE BLDG 7	IC2382	406	Warehouse
VDOT WHSE	IC2389	675	Office/Warehouse
Hicks Carpet & Tile	IC2392	406	Warehouse
TROLLY HOUSE HOTEL PANTRY	IC2393	675	Office/Warehouse
former Title Max	IC2394	353	Retail Store
Elliot Tire & Auto	IC2400	528	Service Garage
WAWA	IC2403	419	Convenience Market
The MCA Center	IC2404	341	Office - Medical
Mauck & Company	IC2408	406	Warehouse
Gayton Business Park	IC2412	675	Office/Warehouse
DABNEY CENTER BLDG III	IC2415	675	Office/Warehouse
Colonial Plaza	IC2417	601	Retail Strip
Simons Hauling Co.	IC2419	495	Ind'l Manufacturing
Commonwealth Painting & DAfA@cor	IC2420	406	Warehouse
Parham East Medical Center	IC2425	341	Office - Medical
BP Convenience Store	IC2427	419	Convenience Market
Architectual Concepts Cabinets	IC2428	675	Office/Warehouse
Exxon Convenience Store	IC2432	419	Convenience Market
Dabney Road Office Buildings	IC2437	453	Ind'l Flex Building
Loveland Distribution Co	IC2438	675	Office/Warehouse
Marchetti Office/Warehouse	IC2442	675	Office/Warehouse
Richmond Corrugated Box Co	IC2445	495	Ind'l Manufacturing
Play it Again Sports/Retail St	IC2450	601	Retail Strip
Wilton Square at Innsbrook	IC2453	601	Retail Strip
Lowe's	IC2456	353	Retail Store
Southern States	IC2457	353	Retail Store
Southern States	IC2458	353	Retail Store
Wal Mart	IC2459	353	Retail Store
Knight Electric	IC2460	406	Warehouse
IR ENGRAVING	IC2461	495	Ind'l Manufacturing
Enviroscape	IC2578	528	Service Garage
Firestone Auto	IC2580	410	Automotive/Retail Ctr

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Industrial and High-Risk Dischargers Determined to be Contributing a Significant Pollutant Load to the MS4 between January 1, 2024 and June 30, 2024

Industrial and High-Risk Discharger	VPDES Permit (Permit # or None)	Outfalls to the following to MS4 Structure(s)
No Industrial and High-Risk Dischargers were found to be contributing a significant pollutant load to the MS4.	No Industrial and High-Risk Discharges were found to be contributing a significant pollutant load to the MS4.	No Industrial and High-Risk Dischargers were found to be contributing a significant pollutant load to the MS4.

No fewer than fifty MS4 structures that Industrial and High-Risk Runoff Facilities discharge into will be inspected during each permit year and each will be inspected at least once during the permit cycle. In addition, Industrial and High-Risk Runoff Facilities outfalls with a history of contributing significant pollutant loading to the MS4 during the previous permit year will be re-inspected the following permit year. These outfalls will be subject to the established infrastructure inspection procedure, including evaluations of identified flows and maintenance and repair needs. The infrastructure inspection procedure is included with the annual report attachment for I.B.2.h.

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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 connection to the permittee's MS4 inspected during the reporting period.

During the reporting period, fifty outfalls from Industrial and High-Risk Dischargers were inspected.

Inspections of Outfalls from Industrial and High Risk Dischargers conducted between January 1, 2024 and June 30, 2024

Industrial and High Risk Discharger	Outfall Location	Inspection Date	Determined to be Contributing Significant Pollutant Load to the MS4?
IC0001	IN000000024676	5/15/2024	No
IC0001	MH000000003732	5/15/2024	No
IC0003	IN000000016226	6/17/2024	No
IC0003	IN000000016231	6/17/2024	No
IC0003	IN000000016236	6/17/2024	No
IC0005	IN000000025371	5/15/2024	No
IC0006	IN000000024880	6/17/2024	No
IC0007	IN000000016228	6/17/2024	No
IC0008	MN000000038759	5/15/2024	No
IC0011	JN000000000546	6/17/2024	No
IC0011	JN000000000547	6/17/2024	No
IC0011	JN000000000548	6/17/2024	No
IC0012	MN000000038757	6/17/2024	No
IC0013	MH000000008957	6/17/2024	No
IC0013	MH000000008958	6/17/2024	No
IC0020	IN000000009823	6/17/2024	No
IC0020	IN000000009865	6/17/2024	No
IC0024	IN000000021671	1/10/2024	No
IC0026	IN000000025355	5/15/2024	No
IC0032	IN000000019060	6/17/2024	No
IC0036	IN000000023806	6/24/2024	No
IC0037	IN000000016500	6/18/2024	No

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Industrial and High Risk Discharger	Outfall Location	Inspection Date	Determined to be Contributing Significant Pollutant Load to the MS4?
IC0037	IN000000016504	6/18/2024	No
IC0049	IN000000002547	5/15/2024	No
IC0051	IN000000016875	1/2/2024	No
IC0090	IN000000025447	5/15/2024	No
IC0097	IN000000016875	1/2/2024	No
IC0099	IN000000012236	4/2/2024	No
IC0138	IN000000025367	5/15/2024	No
IC0165	MH000000007378	5/7/2024	No
IC0172	MH000000007378	5/7/2024	No
IC0203	IN000000009823	6/17/2024	No
IC0237	MN000000093985	5/15/2024	No
IC0238	IN000000025235	5/15/2024	No
IC0238	MN0000000125601	5/15/2024	No
IC0239	IN000000025085	5/15/2024	No
IC0239	IN000000025087	5/15/2024	No
IC0246	IN000000016873	1/2/2024	No
IC0281	IN000000026096	5/15/2024	No
IC0301	IN000000024676	5/15/2024	No
IC0303	IN000000025487	5/15/2024	No
IC0325	IN000000025489	5/15/2024	No
IC0325	IN000000025495	5/15/2024	No
IC0354	IN000000025057	5/15/2024	No
IC0358	IN000000025304	5/15/2024	No
IC0358	IN000000025484	5/15/2024	No
IC0382	IN000000017330	6/26/2024	No
IC0404	IN000000012440	4/2/2024	No
IC0441	MN000000038759	5/15/2024	No
IC0001	IN000000024676	5/15/2024	No
IC0001	MH000000003732	5/15/2024	No
IC0003	IN000000016226	6/17/2024	No
IC0003	IN000000016231	6/17/2024	No
IC0003	IN000000016236	6/17/2024	No
IC0005	IN000000025371	5/15/2024	No
IC0006	IN000000024880	6/17/2024	No

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PART I.B.2.g
ANNUAL REPORTING REQUIREMENTS
JANUARY 16, 2024 THROUGH JUNE 30, 2024**

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Industrial and High Risk Discharger	Outfall Location	Inspection Date	Determined to be Contributing Significant Pollutant Load to the MS4?
IC0007	IN000000016228	6/17/2024	No
IC0008	MN000000038759	5/15/2024	No
IC0011	JN000000000546	6/17/2024	No

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Industrial and High Risk Discharger	Outfall Location	Inspection Date	Determined to be Contributing Significant Pollutant Load to the MS4?
IC0011	JN000000000547	6/17/2024	No
IC0011	JN000000000548	6/17/2024	No
IC0012	MN000000038757	6/17/2024	No
IC0013	MH000000008957	6/17/2024	No
IC0013	MH000000008958	6/17/2024	No
IC0020	IN000000009823	6/17/2024	No
IC0020	IN000000009865	6/17/2024	No

Inspections of Industrial and High-Risk Dischargers determined to be contributing significant pollutant load to the MS4 conducted between January 1, 2024 and June 30, 2024

Industrial and High-Risk Discharger ID#	Inspection Date	Results of Inspection
No Industrial and High-Risk Dischargers /were found to be contributing a significant pollutant load to the MS4. Therefore, no Industrial and High-Risk Dischargers were inspected during the permit year.	No Industrial and High-Risk Dischargers /were found to be contributing a significant pollutant load to the MS4. Therefore, no Industrial and High-Risk Dischargers were inspected during the permit year.	No Industrial and High-Risk Dischargers /were found to be contributing a significant pollutant load to the MS4. Therefore, no Industrial and High-Risk Dischargers were inspected during the permit year.

Each annual report shall include a list of referrals to the Department including a document detailing any coordination activities with the Department.

Industrial and High-Risk Dischargers referred to the Virginia Department of Environmental Quality between January 1, 2024 and June 30, 2024

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Industrial and High-Risk Discharger	Referral Date	Reason for Referral
No Industrial and High-Risk Dischargers were referred to the Virginia Department of Environmental Quality during the permit year. VPDES Industrial Stormwater Permitted Facilities located in Henrico County are listed below.	No Industrial and High-Risk Dischargers were referred to the Virginia Department of Environmental Quality during the permit year. VPDES Industrial Stormwater Permitted Facilities located in Henrico County are listed below.	No Industrial and High-Risk Dischargers were referred to the Virginia Department of Environmental Quality during the permit year. VPDES Industrial Stormwater Permitted Facilities located in Henrico County are listed below.

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PART I.B.2.h

MS4 PROGRAM IMPLEMENTATION STORMWATER INFRASTRUCTURE MANAGEMENT

PERMIT LANGUAGE

The permittee shall continue to maintain and implement programs to maintain the permittee's stormwater infrastructure and to update the accuracy and inventory of the storm sewer system.

- 1) For stormwater management (SWM) facilities and infrastructure maintained by the permittee including residential properties where SWM facilities, BMP and Storm Drainage Systems qualify for permittee maintenance (excluding apartments and mobile home parks), the following conditions apply:
 - (a) The permittee shall provide for adequate long-term operation and maintenance of SWM facilities owned or operated by the permittee in accordance with written inspection and maintenance procedures included in the MS4 Program Plan.
 - (b) 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 state permit.
 - (c) The permittee shall conduct maintenance on SWM facilities owned or operated by the permittee as necessary to ensure the facilities function as designed.
 - (d) The permittee shall continue its stormwater system inspection program and shall either (a) implement a department approved risk-based prioritization inspection program for the stormwater system within 12 months or (b) inspect not less than 15% of the MS4 annually and 80% of the system during the term of the permit. The permittee shall perform maintenance as necessary based on findings during the inspection. If for any reason an inspection cannot be conducted, the permittee shall document the reason in the Annual Report.
 - (e) The permittee shall dispose of all wastes and wastewaters collected during

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stormwater system cleaning in accordance with local, state, and federal laws and regulations.

- (f) The permittee shall obtain any required state or federal permit(s) necessary to complete maintenance activities.
- 2) For SWM facilities not maintained by the permittee and that discharge into the MS4, the following conditions apply:
- (a) The permittee shall continue to implement a program to ensure proper maintenance of each privately maintained SWM facility that discharges into the MS4 system. The program shall include the following elements:
 - (1) Beginning with the effective date of this state 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 provided that the permittee has developed and implemented a strategy to address maintenance of such stormwater management controls. 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 state permit and shall include an inspection schedule, homeowner outreach and education, or other methods targeted at promoting the long-term maintenance of such facilities.
 - (2) For SWM facilities that are privately maintained and for which maintenance agreements have been established between the permittee and the owner, the permittee shall inspect all privately maintained facilities no less than once per 5 years 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.
 - (3) The permittee shall continue to implement a program ensuring the inspection and maintenance of SWM facilities that are privately maintained and for which maintenance agreements have not been established between the permittee and the owner.
- 3) The permittee shall update and maintain an accurate MS4 map and information table as follows:
- (a) An updated map of the MS4 owned or operated by the permittee, no later than 12

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months after the permit effective date that includes, at a minimum:

- (1) MS4 outfalls discharging to surface waters, except as follows:
 - (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
 - (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 recognizing the difficulties in accessing outfalls to underground channelized stream conveyances for purposes of mapping, screening or monitoring.
 - (2) A unique identifier for each mapped item required in Part I B.2.h)3);
 - (3) The name and location of receiving waters to which the MS4 outfall or point of interconnection discharges;
 - (4) The MS4 regulated service area;
 - (5) Pipe and open channel conveyances that are upstream of MS4 outfalls; and
 - (6) Stormwater management facilities owned or operated by the permittee.
- (b) The permittee shall update its MS4 service area map as necessary if any changes to direct drainage to VDOT's MS4 service area occur. The permittee shall maintain a map to assist with coordination of VDOT MS4 coverage areas for roadways and streets. Where practical, the permittee map shall clearly delineate gap areas that drain to VDOT MS4 areas not included as part of the Henrico MS4 service area. This information shall be maintained and kept up to date and made available when requested.
- (c) The permittee shall maintain an outfall information table associated with the MS4 map that includes the following information for each outfall or point of discharge for those cases in which the permittee elects to map the known point of discharge in accordance with Part I.B.2.h)3)(a)(1). The outfall information table may be

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maintained as a shapefile attribute table. The outfall information table shall include the following, at a minimum:

- (1) A unique identifier as specified on the MS4 map;
- (2) The latitude and longitude of the outfall, or point of discharge;
- (3) The 6th Order Hydrologic Unit Code of the receiving water;
- (4) An indication as to whether the receiving water is listed as impaired in the Virginia 2022 305(b)/303(d) Water Quality Assessment Integrated Report; and
- (5) The name of any EPA-approved TMDLs for which the permittee is assigned a wasteload allocation.

If available, the outfall table should include the following:

- (1) The estimated regulated acreage draining to the outfall, or point of discharge: and
 - (2) The name of the receiving water.
- (d) No later than 12 months after permit issuance, the permittee shall submit to DEQ, a format file geodatabase or two shapefiles that contain at a minimum:
- (1) A point feature class or shapefile for outfalls with an attribute table containing outfall data elements required in accordance with Part I.B.2.h)3)(c); and
 - (2) A polygon feature class or shapefile for MS4 service area as required in accordance with Part I.B.2.h)3)(a)4) with an attribute table containing the following information:
 - (i) MS4 operator name;
 - (ii) MS4 permit number, and
 - (iii) MS4 service area pervious, impervious and total acreage rounded to the nearest hundredth
- (e) All file geodatabase feature classes or shapefiles shall meet the following data format standards:

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- (1) Point data collected in NAD83 or WGS84 decimal degrees global positional system coordinates;
 - (2) Data projected in Virginia Lambert Conformal Conic format;
 - (3) Outfall location accuracy shall be represented in decimal degrees rounded to at least the fifth decimal place for latitude and longitude to ensure point location accuracy (e.g., 37.61741, -78.15279); and
 - (4) Metadata shall provide a description of each feature class or shapefile dataset, units of measure as applicable, coordinate system, and projection.
- (f) No later than October 1 of each year, the permittee shall update the MS4 map and outfall information table to include any new outfalls constructed or TMDLs approved or both during the immediate preceding reporting period.
- (g) The permittee shall provide written notification to any downstream adjacent MS4 of any new physical interconnection from the permittee-owned system to another regulated MS4 established or discovered after the effective date of this permit.

SPECIFIC REPORTING REQUIREMENTS

- **The permittee shall submit with the initial annual report the written inspection and maintenance procedures.**
- **Each annual report shall include a list of activities including inspections, maintenance, and repair of stormwater infrastructure operated by the permittee as required in Part I.B.2.h)1), including the type and number of stormwater structures inspected and maintained; the total number of stormwater structures owned or operated by the permittee; the total linear feet of storm sewer system owned and/or operated by the permittee; and the linear feet of storm sewer system inspected.**
- **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.**

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- Each annual report shall include a list 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.2.h)2).
- The MS4 service area map including outfalls and information included in Part I.B.2.h)3) shall be submitted no later than 18 months after the effective date of this state permit. The information shall be submitted as an electronic file described in Part I.B.2.h)3)(e).

Economic Development Authority (EDA)

EDA will provide for long-term operation and maintenance of EDA-maintained SWM facilities / BMPs in accordance with written inspection and maintenance procedures. EDA will ensure that EDA-maintained SWM facilities / BMPs are inspected at least once each year by qualified persons (individuals holding SWM inspection certifications issued by DEQ) and maintenance is conducted as necessary to ensure the facilities function as designed.

EDA will document and maintain records related to the inspection, maintenance and repair of EDA-maintained SWM facilities / BMPs and stormwater conveyance systems located within EDA-maintained lands.

EDA will annually inspect, through the use of certified inspectors or licensed professionals, its assigned SWP/BMP infrastructure system.

EDA shall conduct maintenance and repair activities as required to adequately maintain long-term operation of its SWP/BMP facilities.

EDA shall record, document and maintain a data base of all SWP/BMP inspections, maintenance and repair activities and report this to DPW on an annual basis or as required.

EDA will inspect no less than 15% of the EDA-maintained stormwater conveyance system components **each year between January 1, 2024 and January 15, 2029.**

EDA will inspect 80% of the EDA-maintained stormwater conveyance system components at least once by **January 15, 2029.**

No later than **July 31 of each year**, EDA will update the MS4 database to reflect their activities (inspections, maintenance, and repair) conducted on EDA-maintained

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stormwater infrastructure for inclusion in the annual reports due October 1.

Division of Fire (Fire)

Fire will provide for long-term operation and maintenance of Fire-maintained SWM facilities / BMPs in accordance with written inspection and maintenance procedures. Fire will ensure that Fire-maintained SWM facilities / BMPs are inspected at least once each year by qualified persons (individuals holding SWM inspection certifications issued by DEQ) and maintenance is conducted as necessary to ensure the facilities function as designed.

Fire will document and maintain records related to the inspection, maintenance and repair of Fire-maintained SWM facilities / BMPs and stormwater conveyance systems located within Fire-maintained lands.

Fire will annually inspect, through the use of certified inspectors or licensed professionals, its assigned SWP/BMP infrastructure system.

Fire shall conduct maintenance and repair activities as required to adequately maintain long-term operation of its SWP/BMP facilities.

Fire shall record, document and maintain a data base of all SWP/BMP inspections, maintenance and repair activities and report this to DPW on an annual basis or as required.

Fire will inspect no less than 15% of the Fire-maintained stormwater conveyance system components **each year between January 1, 2024 and January 15, 2029.**

Fire will inspect 80% of the Fire-maintained stormwater conveyance system components at least once by **January 15, 2029.**

No later than **July 31 of each year**, Fire will update the MS4 database to reflect their activities (inspections, maintenance, and repair) conducted on Fire-maintained stormwater infrastructure for inclusion in the annual reports due October 1.

General Services (DGS)

DGS will provide for long-term operation and maintenance of DGS-maintained SWM facilities / BMPs in accordance with written inspection and maintenance procedures. DGS will ensure that DGS-maintained SWM facilities / BMPs are inspected at least once each year by qualified persons (individuals holding SWM inspection certifications issued by

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DEQ) and maintenance is conducted as necessary to ensure the facilities function as designed.

DGS will document and maintain records related to the inspection, maintenance and repair of DGS-maintained SWM facilities / BMPs and stormwater conveyance systems located within DGS-maintained lands.

DGS will annually inspect, through the use of certified inspectors or licensed professionals, its assigned SWP/BMP infrastructure system.

DGS shall conduct maintenance and repair activities as required to adequately maintain long-term operation of its SWP/BMP facilities.

DGS shall record, document and maintain a data base of all SWP/BMP inspections, maintenance and repair activities and report this to DPW on an annual basis or as required.

DGS will inspect no less than 15% of the DGS-maintained stormwater conveyance system components **each year between January 1, 2024 and January 15, 2029.**

DGS will inspect 80% of the DGS-maintained stormwater conveyance system components at least once by **January 15, 2029.**

No later than **July 31 of each year**, DGS will update the MS4 database to reflect their activities (inspections, maintenance, and repair) conducted on DGS-maintained stormwater infrastructure for inclusion in the annual reports due October 1.

Mental Health and Developmental Services (MH/DS)

MH/DS will provide for long-term operation and maintenance of MH/DS-maintained SWM facilities / BMPs in accordance with written inspection and maintenance procedures. MH/DS will ensure that MH/DS-maintained SWM facilities / BMPs are inspected at least once each year by qualified persons (individuals holding SWM inspection certifications issued by DEQ) and maintenance is conducted as necessary to ensure the facilities function as designed.

MH/DS will document and maintain records related to the inspection, maintenance and repair of MH/DS-maintained SWM facilities / BMPs and stormwater conveyance systems located within MH/DS-maintained lands.

MH/DS will annually inspect, through the use of certified inspectors or licensed professionals, its assigned SWP/BMP infrastructure system.

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MH/DS shall conduct maintenance and repair activities as required to adequately maintain long-term operation of its SWP/BMP facilities.

MH/DS shall record, document and maintain a data base of all SWP/BMP inspections, maintenance and repair activities and report this is DPW on an annual basis or as required.

MH/DS will inspect no less than 15% of the MH/DS-maintained stormwater conveyance system components **each year between January 1, 2024 and January 15, 2029.**

MH/DS will inspect 80% of the MH/DS-maintained stormwater conveyance system components at least once by **January 15, 2029.**

No later than **July 31 of each year**, MH/DS will update the MS4 database to reflect their activities (inspections, maintenance, and repair) conducted on MH/DS-maintained stormwater infrastructure for inclusion in the annual reports due October 1.

Division of Police (Police)

Police will provide for long-term operation and maintenance of Police-maintained SWM facilities / BMPs in accordance with written inspection and maintenance procedures. Police will ensure that Police -maintained SWM facilities / BMPs are inspected at least once each year by qualified persons (individuals holding SWM inspection certifications issued by DEQ) and maintenance is conducted as necessary to ensure the facilities function as designed.

Police will document and maintain records related to the inspection, maintenance and repair of Police-maintained SWM facilities / BMPs and stormwater conveyance systems located within Police -maintained lands.

Police will annually inspect, through the use of certified inspectors or licensed professionals, its assigned SWP/BMP infrastructure system.

Police shall conduct maintenance and repair activities as required to adequately maintain long-term operation of its SWP/BMP facilities.

Police shall record, document, and maintain a data base of all SWP/BMP inspections, maintenance and repair activities and report this is DPW on an annual basis or as required.

Police will inspect no less than 15% of the Police-maintained stormwater conveyance

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system components **each year between January 1, 2024 and January 15, 2029.**

Police will inspect 80% of the Police-maintained stormwater conveyance system components at least once by **January 15, 2029.**

No later than **July 31 of each year**, Police will update the MS4 database to reflect their activities (inspections, maintenance, and repair) conducted on Police-maintained stormwater infrastructure for inclusion in the annual reports due October 1.

Recreation and Parks

Recreation and Parks will provide for long-term operation and maintenance of Recreation and Parks-maintained SWM facilities / BMPs in accordance with written inspection and maintenance procedures. Recreation and Parks will ensure that Recreation and Parks-maintained SWM facilities / BMPs are inspected at least once each year by qualified persons (individuals holding SWM inspection certifications issued by DEQ) and maintenance is conducted as necessary to ensure the facilities function as designed.

Recreation and Parks will document and maintain records related to the inspection, maintenance and repair of Recreation and Parks-maintained SWM facilities / BMPs and stormwater conveyance systems located within Recreation and Parks-maintained lands.

Recreation and Parks will annually inspect its BMP facilities with certified staff or contracted inspector. Stormwater conveyance system components will be inspected annually according to program plan requirements.

Recreation and Parks shall document and maintain a database with annual inspections and maintenance/repairs for SWM/BMP facilities. Issues identified will be sorted and prioritized by Recreation and Parks staff. Recreation and Parks staff will work to clear debris and properly dispose. Issues outside of staff capability will be identified and possibly contracted out.

Recreation and Parks will inspect no less than 15% of the Recreation and Parks-maintained stormwater conveyance system components **each year between January 1, 2024 and January 15, 2029.**

Recreation and Parks will inspect 80% of the Recreation and Parks-maintained stormwater conveyance system components at least once by **January 15, 2029.**

No later than **July 31 of each year**, Recreation and Parks will update the MS4 database to reflect their activities (inspections, maintenance, and repair) conducted on Recreation

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and Parks-maintained stormwater infrastructure for inclusion in the annual reports due October 1.

Public Schools (Schools)

Schools will provide for long-term operation and maintenance of Schools-maintained SWM facilities / BMPs in accordance with written inspection and maintenance procedures. Schools will ensure that Schools-maintained SWM facilities / BMPs are inspected at least once each year by qualified persons (individuals holding SWM inspection certifications issued by DEQ) and maintenance is conducted as necessary to ensure the facilities function as designed.

Schools will document and maintain records related to the inspection, maintenance and repair of Schools-maintained SWM facilities / BMPs and stormwater conveyance systems located within Schools-maintained lands.

Schools will work to provide for adequate long-term operation and maintenance of its SWM facilities (including BMP structures). HCPS will inspect its SWM facilities and stormwater conveyance system components according to program plan requirements. HCPS shall conduct maintenance on its SWM facilities and document and maintain a database with annual inspections and maintenance/repairs. HCPS shall report all SWM inspection, maintenance and repair activities to DPW on an annual basis.

Schools will inspect no less than 15% of the Schools-maintained stormwater conveyance system components **each year between January 1, 2024 and January 15, 2029**.

Schools will inspect 80% of the Schools-maintained stormwater conveyance system components at least once by **January 15, 2029**.

No later than **July 31 of each year**, Schools will update the MS4 database to reflect their activities (inspections, maintenance, and repair) conducted on Schools-maintained stormwater infrastructure for inclusion in the annual reports due October 1.

Public Utilities (DPU)

DPU will provide for long-term operation and maintenance of DPU-maintained SWM facilities / BMPs in accordance with written inspection and maintenance procedures. DPU will ensure that DPU-maintained SWM facilities / BMPs are inspected at least once each year by qualified persons (individuals holding SWM inspection certifications issued by

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DEQ) and maintenance is conducted as necessary to ensure the facilities function as designed.

DPU will document and maintain records related to the inspection, maintenance and repair of DPU-maintained SWM facilities / BMPs and stormwater conveyance systems located within DPU-maintained lands.

DPU will work to provide adequate long-term operation and maintenance of DPU-maintained SWM facilities/BMPs.

DPU has developed a Standard Operating Procedure (SOP) that will be utilized to provide good housekeeping, the necessary inspections and any needed maintenance on DPU owned SWM facilities/BMPs. The SOP is attached.

DPU will inspect no less than 15% of the DPU-maintained stormwater conveyance system components **each year between January 1, 2024 and January 15, 2029.**

DPU will inspect 80% of the DPU-maintained stormwater conveyance system components at least once by **January 15, 2029.**

No later than **July 31 of each year**, DPU will update the MS4 database to reflect their activities (inspections, maintenance, and repair) conducted on DPU-maintained stormwater infrastructure for inclusion in the annual reports due October 1.

Public Works (DPW)

DPW will continue to maintain and update the inventory of 1) SWM facilities (both public and private) that discharge to the MS4 and 2) MS4 components (inlets, junctions, manholes, end treatments, and channels, pipes, etc.).

DPW will provide for long-term operation and maintenance of DPW-maintained SWM facilities / BMPs in accordance with written inspection and maintenance procedures. DPW will ensure that DPW-maintained SWM facilities / BMPs are inspected at least once each year by qualified persons (individuals holding SWM inspection certifications issued by DEQ) and maintenance is conducted as necessary.

DPW will document and maintain records related to the inspection, maintenance and repair of DPW-maintained SWM facilities / BMPs and stormwater conveyance systems located within DPW-maintained lands.

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DPW will continue to implement a program to ensure proper maintenance of SWM facilities / BMPs not maintained by the County and that discharge to the MS4. Privately-maintained SWM facilities / BMPs on individual residential lots for which maintenance agreements are not required will be addressed in accordance with § 10-45(b) of the Henrico County Code through an educational mailing distributed once every five years to the property owner describing the maintenance responsibilities for the facilities. Privately-maintained SWM facilities / BMPs for which maintenance agreements have been established will be addressed by ensuring appropriate inspections (in accordance with 9VAC 25-870-114 of the Virginia Stormwater Management Program Regulations) of the facilities are performed no less than once every five years and by conducting follow-up activities to ensure the required maintenance has been completed.

DPW will inspect no less than 15% of the DPW-maintained stormwater conveyance system components **each year between January 1, 2024 and January 15, 2029**.

DPW will inspect 80% of the DPW-maintained stormwater conveyance system components at least once by **January 15, 2029**.

DPW will conduct stormwater conveyance system component inspections on properties owned by Real Property.

DPW will continue to implement a program ensuring inspection and maintenance of privately maintained SWM facilities for which maintenance agreements have not been established are being conducted.

No later than **January 16, 2025**, DPW will update the map of its MS4. The following information will be included for each MS4 outfall:

- (1) MS4 outfalls discharging to surface waters, except in cases where the outfall is located outside of the county's legal responsibility and in cases where the MS4 outfall discharges to receiving water channelized underground, the county may elect to map the point downstream at which the receiving water emerges above ground as an outfall discharge location.
- (2) A unique identifier for each mapped item required in Part I B.2.h)3);
- (3) The name and location of receiving waters to which the MS4 outfall or point of interconnection discharges;
- (4) The MS4 regulated service area;
- (5) Pipe and open channel conveyances that are upstream of MS4 outfalls; and
- (6) Stormwater management facilities owned or operated by the permittee.

DPW will continue to update its MS4 service area map as necessary if any changes to direct drainage to VDOT's MS4 service area occur. DPW shall maintain a map to assist

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with coordination of VDOT MS4 coverage areas for roadways and streets. Where practical, the map shall clearly delineate gap areas that drain to VDOT MS4 areas not included as part of the Henrico MS4 service area. This information shall be maintained and kept up to date and made available when requested.

DPW will maintain an outfall information table as an attribute table associated with the MS4 map that includes the following information for each outfall or point of discharge for those cases in which the permittee elects to map the known point of discharge in accordance with Part I.B.2.h)3)(a)(1). The outfall information table shall include the following, at a minimum:

- (1) A unique identifier as specified on the MS4 map;
- (2) The latitude and longitude of the outfall, or point of discharge;
- (3) The 6th Order Hydrologic Unit Code of the receiving water;
- (4) An indication as to whether the receiving water is listed as impaired in the Virginia 2022 305(b)/303(d) Water Quality Assessment Integrated Report; and
- (5) The name of any EPA-approved TMDLs for which the permittee is assigned a wasteload allocation.

If available, the outfall table should include the following:

- (1) The estimated regulated acreage draining to the outfall, or point of discharge; and
- (2) The name of the receiving water.

By **June 16, 2025**, DPW will submit to DEQ a format file geodatabase or two shapefiles that contain at a minimum:

- (1) A point feature class or shapefile for outfalls with an attribute table containing outfall data elements required in accordance with Part I.B.2.h)3)(c); and
- (2) A polygon feature class or shapefile for MS4 service area as required in accordance with Part I.B.2.h)3)(a)(4) with an attribute table containing the following information:
 - (i) MS4 operator name;
 - (ii) MS4 permit number, and
 - (iii) MS4 service area pervious, impervious and total acreage rounded to the nearest hundredth

DPW will ensure that all file geodatabase feature classes or shapefiles shall meet the following data format standards:

- (1) Point data collected in NAD83 or WGS84 decimal degrees global positional system coordinates;
- (2) Data projected in Virginia Lambert Conformal Conic format;

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- (3) Outfall location accuracy shall be represented in decimal degrees rounded to at least the fifth decimal place for latitude and longitude to ensure point location accuracy (e.g., 37.61741, -78.15279); and
- (4) Metadata shall provide a description of each feature class or shapefile dataset, units of measure as applicable, coordinate system, and projection.

DPW will update the MS4 map and outfall information table to include any new outfalls constructed or TMDLs approved or both during the immediate preceding reporting period no later than **October 1 of each year**.

DPW will provide written notification to any downstream adjacent MS4 of any new physical interconnection from the MS4 system to another regulated MS4 established or discovered after the effective date of this permit.

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PART I.B.2.h

**MS4 PROGRAM IMPLEMENTATION
STORMWATER INFRASTRUCTURE MANAGEMENT**

The permittee shall submit with the initial annual report the written inspection and maintenance procedures.

The written inspection and maintenance procedures are included in this section as attachments.

Each annual report shall include a list of activities including inspections, maintenance, and repair of stormwater infrastructure operated by the permittee as required in Part I.B.2.h)1), including the type and number of stormwater structures inspected and maintained; the total number of stormwater structures owned or operated by the permittee; the total linear feet of storm sewer system owned and/or operated by the permittee; and the linear feet of storm sewer system inspected.

MS4 Infrastructure Inspected* between January 1, 2024 and June 30, 2024

MS4 Infrastructure Type	Unit	Inspected
Inlets	each	787
Manholes	each	100
Junction Boxes	each	12
End Treatments	each	392
Mains	linear feet	716,547

*includes Screening Inspections, Screening Inspection Follow-Ups, Construction Acceptance Inspections, Maintenance Evaluations, and Repair and/or Maintenance Activities

HENRICO COUNTY MS4 PROGRAM PLAN

Inspection, Maintenance, and Repair Actions conducted on MS4 Infrastructure between January 1, 2024 and June 30, 2024

MS4 Infrastructure Type	Inspections	Maintenance	Repair
Inlets	808	206	2
Manholes	104	13	0
Junction Boxes	13	2	0
End Treatments	400	21	1
Mains	6,400	828	0

On-Line* County-Operated SWM Facilities Inspected and/or Maintained between January 1, 2024 and June 30, 2024

Type	Total	Inspected	Maintained
50/10 BASIN (5)	12	1	0
50/10 UNDERGROUND (6)	19	3	0
BAYFILTER (200)	1	0	1
BAYSEPARATOR (205)	1	1	1
BIORETENTION 1 (145)	5	0	1
BIORETENTION BASIN/TRENCH (10)	11	0	0
DRY DETENTION - POND (177)	3	0	0
DRY DETENTION - UNDERGROUND (178)	17	0	1
DRY SWALE 2 (151)	2	1	0
EXTENDED DETENTION BASIN (15)	32	6	3
EXTENDED DETENTION BASIN W/A SHALLOW MARSH (16)	2	1	0
EXTENDED DETENTION POND 1 (175)	1	0	0
FILTERRA (215)	29	4	0

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Type	Total	Inspected	Maintained
GRASS CHANNEL (110)	1	0	0
GRASSED SWALE (20)	11	3	0
IMBRIUM JELLYFISH (250)	1	0	0
INFILTRATION BASIN/TRENCH (25)	5	1	0
PERMEABLE PAVEMENT 1 (135)	10	1	0
PROPRIETARY - SEE GIS NOTES (300)	6	0	0
RETENTION BASIN (WET POND) (30)	7	4	1
SHEETFLOW TO VEGETATED FILTER OR CONSERVED OPEN SPACE 1 (105)	7	0	0
SHEETFLOW TO VEGETATED FILTER OR CONSERVED OPEN SPACE 2 (106)	7	0	0
STORMCEPTOR (225)	1	0	0
STORMFILTER (220)	5	3	0
STORMTREAT (230)	3	0	1
STORMWATER360 (235)	5	2	0
VEGETATED FILTER STRIP (40)	2	0	0
WET POND 1 (170)	1	0	1
	207	31	10

* Facilities with either an Active or Accepted status as of June 30, 2024

On-Line* Privately-Operated SWM Facilities Discharging to the MS4 that were Inspected and/or Maintained between January 1, 2024 and June 30, 2024

Type	Total	Inspected	Maintained
50/10 BASIN (5)	61	6	0
50/10 UNDERGROUND (6)	86	1	0
BAYSAVER (210)	1	0	0
BIORETENTION 1 (145)	1	0	0

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Type	Total	Inspected	Maintained
BIORETENTION 2 (146)	1	0	0
BIORETENTION BASIN/TRENCH (10)	22	1	0
DRY DETENTION - POND (177)	4	0	0
DRY DETENTION - UNDERGROUND (178)	17	0	0
DRY SWALE 1 (150)	1	0	0
EXTENDED DETENTION BASIN (15)	202	16	0
EXTENDED DETENTION BASIN W/A SHALLOW MARSH (16)	46	3	0
FILTERING PRACTICE (160)	1	0	0
FILTERRA (215)	199	13	0
GRASSED SWALE (20)	6	2	0
IMBRIUM JELLYFISH (250)	2	2	0
INFILTRATION BASIN/TRENCH (25)	8	0	0
RETENTION BASIN (WET POND) (30)	61	6	0
SAND FILTER (35)	63	4	0
STORMCEPTOR (225)	1	0	0
STORMFILTER (220)	1	0	0
STORMTREAT (230)	7	0	0
STORMWATER360 (235)	20	5	0
VEGETATED FILTER STRIP (40)	1	0	0
VORTEXSEPARATOR (245)	2	0	0
Total	814	59	0

* Facilities with either an Active or Accepted status

County-Owned/Operated Culverts and Pipes Inventoried as of June 30, 2024 and Inspected between January 1, 2024 and June 30, 2024

Culverts and Pipes Inventoried (miles)	Culverts and Pipes Inspected between January 1, 2024 and June 30, 2024 (miles)
2342.82	132.52

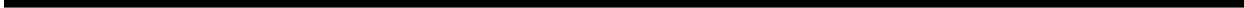
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Each annual report shall provide a summary of actions taken by the permittee to address failure of privately maintained SWM facilities owners to abide by maintenance agreements.

The number of privately-maintained SWM facilities that: 1) discharge to the MS4, 2) needed <i>required</i> maintenance and/or repair based on a previous inspection, and 3) are subject to a recorded maintenance agreement, where the owner(s) failed to perform <i>required</i> maintenance and/or repair as directed by the County.	49
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A second maintenance letter documenting the required punchlist of repairs is sent the owners of these facilities. Owners have 30 days from receipt of the letter to contact the County BMP inspector with a plan for repairs and a tentative schedule. The owner is to contact the inspector at the start of any maintenance work and at its completion. The facility is re-inspected after completion of work. If no contact is made or no action is taken by the owner after the second punchlist, then these items are forwarded to the County Attorney’s office for legal action



**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.B.2.h
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HENRICO COUNTY MS4 PROGRAM PLAN

ATTACHMENTS

**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.B.2.h
ANNUAL REPORT SUPPLEMENT
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County of Henrico

Seal of the County of Henrico

Verification	Originator	Revised	Issued
Initials	DW		
Date	09/12/2024		

County-Owned BMP Inspection and Maintenance SOP

Persons responsible:	DPW-ESD; All county departments with BMP ownership
Area of application:	Henrico County General Gov't Departments - Maintenance
Document Location:	ESD Sharepoint
Revisions	
Rev. No.	Date Description

Purpose:

The purpose of this Standard Operating Procedure (SOP) is to outline the process for the inspection of county-owned Best Management Practices (BMPs) in Henrico County. This SOP ensures that all BMPs are inspected annually by a qualified contractor, and that any necessary maintenance or repairs are documented and addressed to maintain their functionality, pursuant to I.B.2.h of the MS4 Permit.

Scope:

This SOP applies to all county-owned stormwater management facilities that have been inspected and accepted by Henrico County. It is intended for use by the Department of Public Works, the contracted inspection service, departments with BMP ownership and maintenance responsibilities, and any other relevant stakeholders involved in the maintenance and management of BMPs.

Exclusions: None

Responsibility:

Public Works is responsible for overseeing the BMP inspection process by the contractor and communicating findings to departments with BMPs inspected.

The contractor is responsible for conducting annual inspections of BMPs, generating inspection reports, generating the vendor upload spreadsheet, and communicating findings to the Department of Public Works.

The facility operational manager, any personnel involved with decision-making, and environmental inspectors will ensure that the BMP inspection reports are reviewed and that required maintenance/repair items are addressed to maintain functionality.

Procedures for BMP Inspection:

- The Department of Public Works will coordinate with the contractor to schedule annual inspections of all county-owned BMPs.

County of Henrico

- The contractor will use DEQ SWM Inspector certified staff to perform a thorough inspection of each BMP, assessing its structural integrity, functionality, and overall condition.
- The contractor will document all findings in an Inspection Report, which will be submitted to Public Works with a vendor upload form to upload to the BMP database.
- Public Works will add the inspection reports to the MS4 SharePoint site and send an email to all responsible departments to notify them of its availability.



County of Henrico

Verification	Originator	Revised	Issued
Initials	DW		
Date	09/12/2024		

County-Owned BMP Inspection and Maintenance SOP

- Each department will review their reports and work to address any deficiencies outlined in the report.

Additional DPW Responsibilities:

- Each department is responsible for maintaining documentation of maintenance or repair work.

Disclaimer:

Although every effort has been made to ensure this SOP addresses all applicable regulations, it is the responsibility of each department to ensure all rules and regulations are identified and followed in the maintenance of their BMP.



County of Henrico

Verification	Originator	Revised	Issued
Initials	DW		
Date	09/12/2024		

DPW MS4 Inspection and Maintenance SOP

Persons responsible:	DPW MS4 Technicians
Area of application:	Henrico County Public Works – Environmental Services Division (ESD)
Document Location:	ESD Sharepoint
Revisions	
Rev. No.	Date Description

Purpose:

The purpose of this Standard Operating Procedure (SOP) is to provide written instruction for annual MS4 infrastructure inspections and follow-up maintenance activities, pursuant to I.B.2.h of the MS4 Permit.

Scope:

This SOP applies to all DPW ESD MS4 Technicians operators who conduct DPW and Real Property owned infrastructure inspections.

Exclusions: None

Responsibility:

The MS4 technicians and other MS4 staff will ensure that this SOP is followed to achieve the MS4 permit inspection goals.

Procedures for MS4 Inspection:

- Safety – DO NOT enter manholes or confined spaces.
 - Always wear PPE: safety vest, hard hat, and steel-toe boots.
- Walk along storm sewer easements or rights-of-way to access structures
 - Do not enter fenced areas without permission.
 - If asked to leave, do so promptly.
- When conducting a visual assessment of storm structures, look for any signs of pollution or flow.
 - Contact the IDDE specialist immediately (804-501-7319) if you suspect an illicit discharge.
- Chlorine testing can be done using the provided packets and vials when a significant flow is observed. If the chlorine test is positive, contact the IDDE specialist to notify him or her of this positive result, and he or she will contact the Department of Public Utilities.
 - Record the location and nearest impacted storm structure facility IDs.
- Use GIS to determine inspection areas/routes based on last infrastructure inspection date. Infrastructure in need of inspection will display as red, infrastructure close to needing inspection/can be inspected now will display as yellow, and infrastructure not needing inspection will display as green.
- Record all required information on the inspection form for each structure in the MS4 database.
 - iPads can be used in the field to record this information.



County of Henrico

Verification	Originator	Revised	Issued
Initials	DW		
Date	09/12/2024		

DPW MS4 Inspection and Maintenance SOP

- If any issues are found, please photo document it and upload it to the “5. Maintenance Issues” folder in pshare to be submitted with the “Forward to Road Maintenance” process in the database.

Disclaimer:

Although every effort has been made to ensure this SOP addresses all applicable regulations, it is the MS4 team’s responsibility to ensure all rules and regulations are identified and followed.

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PART I.B.2.i

MS4 PROGRAM IMPLEMENTATION COUNTY FACILITIES

PERMIT LANGUAGE

Facilities owned or operated by the permittee shall be operated and maintained as follows:

- 1) The permittee shall develop, implement and maintain written good housekeeping procedures designed to:
 - (a) Prevent illicit discharges;
 - (b) Ensure permittee staff or contractors properly dispose of waste materials to minimize floatables and landscape wastes entering the MS4;
 - (c) Prevent the discharge of wastewater or washwater or both into the MS4 without authorization under a separate VPDES permit: and
 - (d) Preventing pollutant discharge into the MS4 from leaking permittee-owned or operated vehicles and equipment. Leaked fluids shall be cleaned up and disposed of properly, as soon as possible but no later than 24-hours after discovery.
- 2) The permittee shall maintain markings on all stormwater inlets located on high priority municipal facilities, as defined at Part I.F, and on permittee properties with greater than 2-acres of impervious surface.
- 3) High Priority Municipal Facilities
 - (a) The permittee shall maintain a list of all high priority municipal facilities that do not require a separate VPDES industrial stormwater permit, as well as identify which of the facilities have a high potential of discharging pollutants. Facilities with a high potential for discharging pollutants are those facilities where any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt, or runoff:
 - (1) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater;

HENRICO COUNTY MS4 PROGRAM PLAN

- (2) Materials or residuals on the ground or in stormwater inlets from spills or leaks;
 - (3) Material handling equipment (except adequately maintained vehicles);
 - (4) 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);
 - (5) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants);
 - (6) 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;
 - (7) Waste material except waste in covered, non-leaking containers (e.g., dumpsters);
 - (8) Application or disposal of process wastewater (unless otherwise permitted); or
 - (9) 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.
- (b) The permittee shall develop and/or update and implement individual stormwater pollution prevention plans for each high-priority municipal facility identified under Part I.B.2.i)3)(a) no later than 36-months after the effective date of this state permit. Stormwater pollution prevention plans (SWPPP) shall include:
- (1) A site description that includes a site map identifying all outfalls, direction of flows, existing source controls, and receiving water bodies;
 - (2) A discussion and checklist of potential pollutants and pollutant sources;
 - (3) A discussion of all potential non-stormwater discharges;
 - (4) A maintenance schedule for all existing source controls;

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.B.2.i

HENRICO COUNTY MS4 PROGRAM PLAN

- (5) All policies and procedures implemented at the facility to ensure source reduction;
 - (6) 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;
 - (7) Appropriate training as required in Part I.B.2.k);
 - (8) Procedures to conduct an annual comprehensive site compliance evaluation;
 - (9) Procedures to conduct dry weather screening; and (10) All modifications made as the result of any release or spill.
- (c) A copy of each SWPPP shall be kept at each high-priority municipal facility and be kept updated.

SPECIFIC REPORTING REQUIREMENTS

- **Each annual report shall include a list of all high priority municipal facilities and those with a high potential to discharge pollutants as identified in Part I.B.2.i3)(a).**

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various program elements and tasks necessary to demonstrate compliance with Part I.B.2.i of the MS4 Permit are assigned to the following Departments / Divisions of the County:

All Departments / Divisions will prohibit the discharge of wash water from County vehicles into the MS4 at County facilities.

All Departments / Divisions will prohibit the discharge of wastewater into the MS4 at County facilities.

HENRICO COUNTY MS4 PROGRAM PLAN

All Departments / Divisions will prohibit the discharge of floatables and landscape wastes into the MS4.

All Departments / Divisions will prevent fluids leaking from County vehicles 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 / Divisions will use the MS4 Municipal Management Area (MMMA) System to track compliance with the Permit requirements associated with High Priority Municipal Facilities. The MMMA System is an inventory of lands maintained by the County that was developed to administer and track compliance with various MS4 Permit requirements. Using the MMMA System, evaluations of County-maintained lands will be conducted to determine whether or not an area is a High Priority Municipal Facility and if there is a potential of discharging pollutants in accordance with the conditions listed in Part I.B.2.i.2)(b) of the MS4 Permit. The MMMA System will also be used to track whether or not SWPPPs are required, have been developed, and have been implemented in accordance with the implementation schedule specified in the Permit, and are stored at the facility. Currently, the MMMA System does not track compliance with the requirements / recommendations included in each individual SWPPP.

Economic Development Authority (EDA)

No later than **January 1, 2027**, EDA will develop and/or update and implement individual SWPPPs for the EDA-maintained High Priority Municipal Facilities that require SWPPPs. The SWPPPs will include the components listed in Part I.B.2.i.2)(c) of the Permit.

EDA will maintain updated copies of the required SWPPPs at the EDA-maintained High Priority Municipal Facilities.

EDA will use the MMMA System to track development and implementation of the required SWPPPs for EDA-maintained High Priority Municipal Facilities. Individual implementation details required by the SWPPPs will be documented and maintained by EDA since those details are not captured in the MMMA System.

EDA will maintain markings on all stormwater inlets located on EDA-maintained High Priority Municipal Facilities and on EDA-maintained municipal facilities with greater than 2 acres of impervious surface.

HENRICO COUNTY MS4 PROGRAM PLAN

General Services (DGS)

No later than **January 1, 2027**, DGS will develop and/or update and implement individual SWPPPs for the DGS-maintained High Priority Municipal Facilities that require SWPPPs. The SWPPPs will include the components listed in Part I.B.2.i.2)(c) of the Permit.

DGS will maintain updated copies of the required SWPPPs at the DGS-maintained High Priority Municipal Facilities.

DGS will use the MMMA System to track development and implementation of the required SWPPPs for DGS-maintained High Priority Municipal Facilities. Individual implementation details required by the SWPPPs will be documented and maintained by DGS since those details are not captured in the MMMA System.

DGS will maintain markings on all stormwater inlets located on DGS-maintained High Priority Municipal Facilities and on DGS-maintained municipal facilities with greater than 2 acres of impervious surface.

Mental Health and Development Services (MH/DS)

No later than **January 1, 2027**, MH/DS will develop and/or update and implement individual SWPPPs for the MH/DS-maintained High Priority Municipal Facilities that require SWPPPs. The SWPPPs will include the components listed in Part I.B.2.i.2)(c) of the Permit.

MH/DS will maintain updated copies of the required SWPPPs at the MH/DS-maintained High Priority Municipal Facilities.

MH/DS will use the MMMA System to track development and implementation of the required SWPPPs for MH/DS-maintained High Priority Municipal Facilities. Individual implementation details required by the SWPPPs will be documented and maintained by MH/DS since those details are not captured in the MMMA System.

MH/DS will maintain markings on all stormwater inlets located on MH/DS-maintained High Priority Municipal Facilities and on MH/DS-maintained municipal facilities with greater than 2 acres of impervious surface.

HENRICO COUNTY MS4 PROGRAM PLAN

Recreation and Parks

No later than **January 1, 2027**, Recreation and Parks will develop and/or update and implement individual SWPPPs for the Recreation and Parks-maintained High Priority Municipal Facilities that require SWPPPs. The SWPPPs will include the components listed in Part I.B.2.i.2)(c) of the Permit.

Recreation and Parks will maintain updated copies of the required SWPPPs at the Recreation and Parks-maintained High Priority Municipal Facilities.

Recreation and Parks will use the MMMA System to track development and implementation of the required SWPPPs for Recreation and Parks-maintained High Priority Municipal Facilities. Individual implementation details required by the SWPPPs will be documented and maintained by Recreation and Parks since those details are not captured in the MMMA System.

Recreation and Parks will maintain markings on all stormwater inlets located on Recreation and Parks-maintained High Priority Municipal Facilities and on Recreation and Parks-maintained municipal facilities with greater than 2 acres of impervious surface.

Public Schools (Schools)

No later than **January 1, 2027**, Schools will develop and/or update and implement individual SWPPPs for the Schools-maintained High Priority Municipal Facilities that require SWPPPs. The SWPPPs will include the components listed in Part I.B.2.i.2)(c) of the Permit.

Schools will maintain updated copies of the required SWPPPs at the Schools-maintained High Priority Municipal Facilities.

Schools will use the MMMA System to track development and implementation of the required SWPPPs for Schools-maintained High Priority Municipal Facilities. Individual implementation details required by the SWPPPs will be documented and maintained by Schools since those details are not captured in the MMMA System.

HENRICO COUNTY MS4 PROGRAM PLAN

Schools will maintain markings on all stormwater inlets located on Schools-maintained High Priority Municipal Facilities and on Schools-maintained municipal facilities with greater than 2 acres of impervious surface.

Public Utilities (DPU)

No later than **January 1, 2027**, DPU will develop and/or update and implement individual SWPPPs for the DPU-maintained High Priority Municipal Facilities that require SWPPPs. The SWPPPs will include the components listed in Part I.B.2.i.2)(c) of the Permit.

DPU will maintain updated copies of the required SWPPPs at the DPU-maintained High Priority Municipal Facilities.

DPU will use the MMMA System to track development and implementation of the required SWPPPs for DPU-maintained High Priority Municipal Facilities. Individual implementation details required by the SWPPPs will be documented and maintained by DPU since those details are not captured in the MMMA System.

DPU will maintain markings on all stormwater inlets located on DPU-maintained High Priority Municipal Facilities and on DPU-maintained municipal facilities with greater than 2 acres of impervious surface.

Public Works (DPW)

DPW will continue to develop and/or update and implement individual SWPPPs for the DPW-maintained High Priority Municipal Facilities that require SWPPPs. The SWPPPs will include the components listed in Part I.B.2.i.2)(c) of the Permit.

DPW will continue to maintain updated copies of the required SWPPPs at the DPW-maintained High Priority Municipal Facilities.

DPW will use the MMMA System to track development and implementation of the required SWPPPs for DPW-maintained High Priority Municipal Facilities. Individual implementation details required by the SWPPPs will be documented and maintained by DPW since those details are not captured in the MMMA System.

HENRICO COUNTY MS4 PROGRAM PLAN

DPW will continue to maintain markings on all stormwater inlets located on DPW-maintained High Priority Municipal Facilities and on DPW maintained municipal facilities with greater than 2 acres of impervious surface. Markings will not be placed on structures within the County rights-of-way for safety reasons.

DPW will utilize information submitted by other departments to compile and include a list of all high priority municipal facilities and those with a high potential to discharge pollutants in each annual report due **October 1**.

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.B.2.i

MS4 PROGRAM IMPLEMENTATION COUNTY FACILITIES

Each annual report shall include a list of all high priority municipal facilities and those with a high potential to discharge pollutants as identified in Part I.B.2.i)3)(a).

High Priority Municipal Facilities and Facilities with a High Potential to Discharge Pollutants as of June 30, 2024

MMMA	MMMA Description	High Potential of Discharging Pollutants (SWPPP Required)
MMMA000001	FIRE STATION 16	No
MMMA000041	FIRE STATION 21	No
MMMA000054	SPRINGFIELD ROAD LANDFILL	No
MMMA000108	FIRE STATION 13	No
MMMA000141	FIRE STATION 15	No
MMMA000323	SCHOOL BOARD OFFICE	Yes
MMMA000332	BELMONT GOLF COURSE	Yes
MMMA000444	FIRE STATION 1	No
MMMA000508	SHANE ROAD RECYCLE CENTER	No
MMMA000577	ATHLETIC FIELD COMPLEX DOREY PARK	Yes
MMMA000582	WATER RECLAMATION FACILITY	No
MMMA000595	FIRE STATION 11	No
MMMA000650	POLICE SHOOTING RANGE	No
MMMA000695	ATHLETIC FIELDS TUCKAHOE PARK	Yes
MMMA000724	CAM FACILITY - WOODMAN RD.	Yes
MMMA000725	MATERIALS STORAGE YARD AND SALT DOMES	Yes

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MMMA	MMMA Description	High Potential of Discharging Pollutants (SWPPP Required)
MMMA000727	PARK SERVICES MAINTENANCE - 10305 WOODMAN ROAD	Yes
MMMA000728	BUS LOT - WOODMAN ROAD	No
MMMA000732	SPOILS STORAGE	Yes
MMMA000733	WESTERN MAINTENANCE STORAGE AREA	Yes
MMMA000734	OPERATIONS BUILDING	Yes
MMMA000735	DPW BUILDING	Yes
MMMA000737	FIRE TRAINING FACILITY	No
MMMA000739	IMPOUND LOT	Yes
MMMA000746	EAST END ROAD DEPARTMENT	Yes
MMMA000749	SCHOOL BOARD OFFICE	Yes
MMMA000750	CAM FACILITY - DABBS HOUSE RD.	Yes
MMMA000751	WEST END ROAD DEPARTMENT	Yes

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PART I.B.2.j

MS4 PROGRAM IMPLEMENTATION PUBLIC EDUCATION / PARTICIPATION

PERMIT LANGUAGE

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 state permit through regional outreach programs involving two or more MS4 localities.

- 1) The permittee shall identify, schedule, implement, evaluate and modify, as necessary, public outreach activities designed to meet the following public education and outreach goals:
 - (a) Promote, publicize, and facilitate public reporting of the presence of illicit discharges or improper disposal of materials into the MS4;
 - (b) 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;
 - (c) Develop an outreach program for public and private golf courses located within Henrico County that discharge to the permittee's MS4 to encourage implementation of integrated management practice (IMP) plans and techniques to reduce runoff of fertilizer and pesticides;
 - (d) Promote, publicize, and facilitate the proper management and disposal of used oil and household hazardous wastes;
 - (e) Promote and publicize the proper disposal of pet waste and household yard waste;
 - (f) Promote and publicize the use of the permittee's litter prevention program;
 - (g) Promote and publicize methods for residential car washing that minimize water quality impacts;

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- (h) Promote and publicize the proper use, application, and disposal of pesticides, herbicides, and fertilizers by public, commercial, and private applicators and distributors;
 - (i) Encourage private property owners to implement voluntary stormwater management techniques and/or retrofits; and
 - (j) Target strategies towards local groups of commercial, industrial, and institutional entities likely to have significant stormwater impacts.
- 2) The permittee shall post a copy of this state permit on its web page no later than 30-days after the effective date of this state permit and continue to retain a copy of the permit online for the duration of this state permit.
 - 3) 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 state permit.
 - 4) The permittee shall post the most current MS4 Program Plan on its website no later than 30 days after the effective date of this 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.

SPECIFIC REPORTING REQUIREMENTS

- **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.**
- **Each annual report shall provide a summary of voluntary retrofits completed on private property used to demonstrate pollutant reduction requirements. Note that any voluntary project for which the permittee seeks to use for pollutant reduction requirements must be tracked and reported.**
- **Each annual report shall provide a summary of voluntary stormwater management techniques encouraged on private property.**

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Community Revitalization

Community Revitalization provides assistance with neighborhood group/residential cleanup by providing trash bags, gloves and trash pickers to clean up trash along creek banks, the Community Cleanup program and educational brochures for county residents, and enforces the county's trash/ debris and junk storage ordinances.

No later than July 31 of each year, Community Revitalization will provide DPW with 1) a list of public outreach and education activities conducted by Community Revitalization during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due October 1.

Extension Services

The Henrico Unit Office of Virginia Cooperative Extension provides a number of public education programs designed to increase stormwater knowledge and change behaviors regarding pollutant reduction among participants. Examples of programs delivered by Extension agents, staff, and volunteers are listed below and may be provided on an annual or on-going basis. Program delivery methods include seminars and workshops, a telephone helpline, e-mail, office visits, and printed educational materials.

- Commercial Pesticide Applicator initial certification preparatory classes for categories 3A (Ornamentals), 3B (Turf), 8 (Public Health), 10 (Demonstration and Research) and 60 (Registered Technician).
- Private Pesticide Applicator recertification sessions for categories 90 (Food and Fiber), 91 (Ornamentals).
- Commercial Pesticide Applicator recertification sessions for categories 3A (Ornamentals), 3B (Turf), 8 (Public Health), 10 (Demonstration and Research) and 60 (Registered Technician).
- Pesticide safety education for Master Gardener volunteers.
- Pest identification and management recommendations to the public and green industry via a plant health diagnostic network consisting of Master Gardener

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volunteers, Extension Agents, Virginia Tech and Virginia State Extension Specialists, and Virginia Tech diagnostic labs.

- Certified Fertilizer Applicator training to Henrico County employees and green industry personnel.
- Specific and targeted outreach to private and public golf courses located in Henrico County regarding nutrient management, pest management, and pesticide application via letter, phone call, or educational event.
- Certified urban nutrient management plans are provided to County residents participating in the SMART Lawns program.
- Soil testing services and fertilizer recommendations for commercial producers, homeowners, and home gardeners.
- Respond to agricultural producer, green industry professional, and citizen inquiries regarding pesticide and fertilizer spill management and disposal.
- Partner with the Virginia Department of Agriculture and Consumer Services (VDACS) in the unwanted, unused pesticide disposal program available to Henrico County citizens every 5 years.

Individual program effectiveness is evaluated on an annual basis by total number of participants and participant feedback via verbal or survey means. Formal surveys are used to gauge participants' intent to implement practices. Program impact statements are prepared annually for programs that target behavioral change.

No later than **July 31 of each year**, Extension Service will provide DPW with 1) a list of public outreach and education activities conducted by Extension during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due October 1.

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Division of Fire (Fire)

The Division of Fire works to educate its 500 plus uniformed employees on the importance of the MS4 requirements and how to handle issues that may violate the terms of the program. While in community, both on emergency responses and while conducting other county business, the fire personnel watch for issues, mitigate and correct them and educate the citizens on how to properly handle these situations. All Fire stations also have MS4 Posters that are bright in color and should capture the attention of the citizens visiting these facilities. It is the intention of the posters to broaden the knowledge of our citizens on the MS4 programs supported by the county.

No later than **July 31 of each year**, Fire will provide DPW with 1) a list of public outreach and education activities conducted by Fire during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due October 1.

Henricopolis Soil and Water Conservation District (HSWCD)

Henricopolis will begin to target individuals and interest groups in an effort to develop a water quality monitoring program that can be implemented on local bodies of water. The District will assist local environmental advocacy groups in facilitating outreach for local restoration and clean-up projects. Henricopolis will host a tree seedling giveaway, in an effort to supply County residents with tree seedlings to be planted. Henricopolis will also begin to develop a program to assist private property owners with the implementation of urban residential stormwater best management practices.

Below are 13 different voluntary stormwater BMPs that Henricopolis can provide technical and financial assistance for County property owners. For more information, refer to: <http://henrico.us/services/virginia-conservation-assistance-program/>

Basic BMPs

- Pet Waste Stations
- Impervious Surface Removal
- Urban Nutrient Management Planning

Intermediate Level BMPs

- Conversion Landscaping
- Rain Gardens
- Dry Well

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- Rainwater Harvesting
- Vegetated Stormwater Conveyance Advanced BMPs
- Bioretention
- Infiltration Basin
- Constructed Wetlands
 - Permeable Pavement
- Green Roofs

No later than **July 31 of each year**, Henricopolis will provide DPW with 1) a list of public outreach and education activities conducted by Henricopolis during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due October 1.

Public Library

No later than **July 31 of each year**, Library will provide DPW with 1) a list of public outreach and education activities conducted by Library during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due October 1.

Division of Police (Police)

Police publishes a Curb Your Dog brochure, promoting the proper disposal of pet waste.

No later than **July 31 of each year**, Police will provide DPW with 1) a list of public outreach and education activities conducted by Police during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due October 1.

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Recreation and Parks

Recreation and Parks coordinates with Extension Service to develop and implement specific and targeted outreach to private and public golf courses located in Henrico County regarding nutrient management, pest management, and pesticide application via letter, phone call, or educational event.

No later than **July 31 of each year**, Recreation and Parks will provide DPW with 1) a list of public outreach and education activities conducted by Recreation and Parks during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due October 1.

Public Schools (Schools)

Henrico County Public Schools recognizes that a healthy and sustainable environment is important to the well-being of its citizens. Educating our employees to recognize activities that impact our environment and training them to plan and respond appropriately are primary keys to success of our organizational commitment to sustainability and support of the MS4. Consistent with this philosophy and with commitment from executive management, Henrico County Public Schools Department of Construction and Maintenance developed and implemented an Environmental and Sustainability Management System (ESMS) as a management tool to document and measure the organization's environmental performance and sustainability. In support of its commitment and vision to be an innovative leader in education excellence, Henrico County Public Schools through its Department of Construction and Maintenance promotes a culture of environmental sustainability and supports sustainability in its daily operations. Through implementation of the sustainability program, the organization and its employees gain a better understanding of environmental regulatory requirements, minimize risk for environmental liabilities, and save funds by conserving resources. These measurable successes highlight the benefits of promoting sustainability within the organization. Benefits also include increased employee awareness of environmental issues (including community outreach through education, and watershed stewardship that staff learn and return in practice to their communities), developing, implementing, and documenting environmentally sustainable practices (an organizational management tool), implementing proactive sustainable management systems (with economic benefit), and higher achievement toward assuring that all students will learn in a healthier learning environment that efficiently and effectively supports the instructional program. Increased employee awareness provides a foundation for community outreach, as environmental practices and experiences are shared by employees within

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their communities, with neighbors, and other organizations and businesses through model activities, discussions, and specific purchases which promote sustainable practices. Sustainability training and education provided to staff promotes watershed stewardship which affects or alters their preceding daily practices and procedures in the workplace with respect to watershed protection and influences their own personal practices in their daily lives, which in leading by example has influence on watershed protection by others in their communities and neighborhoods. The process of developing, implementing, and documenting sustainable practices and implementing proactive sustainable practices.

No later than **July 31 of each year**, Schools will provide DPW with 1) a list of public outreach and education activities conducted by Schools during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due October 1.

Public Utilities (DPU)

DPU has a public outreach program that discusses various topics with citizens. DPU does things such as:

Neighborhood cleanups – this program is designed to allow citizens within certain neighborhoods the opportunity to remove trash/debris, furniture, yard waste, etc. from their properties.

Bagged Leaf Program – provides an opportunity for citizens to bag their fallen leaves and place on the County right of way for pickup.

Hazardous Material Disposal (used motor oil, antifreeze, oil based paints, batteries, propane tanks) – offer our citizens the opportunity to dispose of these items at our Public Use Areas. These items are stored in a special location in order to keep them from getting into our transfer station with the other household trash items.

Bulky Waste Program – this program is designed to allow citizens the opportunity to dispose of certain large items for a small fee. Upon receiving the order, staff will proceed to remove the items and properly dispose of those items (restrictions apply for this program).

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Bark in the Park – this program is designed to educate the citizens on proper disposal of pet waste.

Yard Waste – offer this program for citizens to bring their yard waste to the Public Use Areas for no charge. In turn, we take the brush and create mulch, which in turn is given to citizens for free.

Recycling Roundups – an educational video series to educate Henrico residents on predetermined topics such as yard waste removal, recycling information, etc.

Green Machine – offer this program for kid's ages 4-7 on litter prevention and recycling.

Trash Time Capsule – offer this program for kid's ages 8-13 on litter prevention as well as landfill decomposition.

Who is Littering Henrico County – offer this teen program to educate kids about litter prevention, recycling processes and sustainability.

Seed Balls and Polluted Runoff – offer this program for scouts or other youth groups outside of the school that teach about conservation and how plants help reduce polluted run-off.

Educations Booths at public events – Keep Henrico Beautiful attends public events to discuss topics such as litter prevention, recycling, waste disposal and pet waste.

No later than **July 31 of each year**, DPU will provide DPW with 1) a list of public outreach and education activities conducted by DPU during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due October 1.

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Public Works (DPW)

DPW will post and maintain a copy of the MS4 Permit on DPW's website no later than 30 days after the effective date of this state permit and continue to retain a copy of the permit online for the duration of this state permit.

DPW will post copies of each annual report on DPW's website no later than 30 days after the report submittal to the Department and will continue to retain copies of the annual reports online for the duration of this state permit.

DPW will post the most current MS4 Program Plan on DPW's website no later than 30 days after the report submittal to the Department and will continue to maintain a current copy on the website. Any modifications or revisions to the MS4 Program Plan will be updated on the website within 30 days of the revision(s). Copies of the most current MS4 Program Plan will be available for public review upon request of interested parties in compliance with all applicable open records requirements.

DPW provides outreach programs to address topics such as illicit discharges, local water quality improvement and restoration efforts, proper pet waste disposal, and environmental-friendly car washing. These programs include an online and "hotline" reporting system for illicit discharges, onsite meetings with citizens to educate and provide technical assistance for local water quality improvement projects, participation in regional pet waste disposal and education programs, and distribution of educational material concerning residential and fund-raising car washing.

No later than **June 30 of each year**, DPW will develop 1) a list of public outreach and education activities conducted by DPW during the previous permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due March 31.

No later than **July 31 of each year**, DPW will generate 1) a compiled list of public outreach and education activities conducted by the various Departments / Divisions during the permit year, 2) the estimated number of individuals reached through the activities, 3) an evaluation of program effectiveness, and 4) recommendations for future changes for inclusion in the annual reports due **October 1**.

No later than **July 31 of each year**, DPW will develop a summary of voluntary retrofits completed on private property during the permit year that were used to demonstrate pollutant reduction requirements for inclusion in the annual reports due **October 1**.

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No later than **July 31 of each year**, DPW will develop a summary of voluntary stormwater management techniques encouraged on private property for inclusion in the annual reports due **October 1**.

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MS4 PROGRAM IMPLEMENTATION PUBLIC EDUCATION / PARTICIPATION

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.

Public Outreach and Education Goals and Activities

Goal: Promote, publicize, and facilitate public reporting of the presence of illicit discharges or improper disposal of materials into the MS4

Department / Division	Activity	Date	# of Individuals / Households Reached
DPW - ESD	Illicit Discharge Reporting	01/01/2024-06/30/2024	18
DPW – ESD	Environmental educational mailing sent to residents in response to complaints, educating them on proper pet waste disposal, trash and landscape debris disposal, pollution prevention and an only rain down the drain message.	1/24/2024	369

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Department / Division	Activity	Date	# of Individuals / Households Reached
Community Revitalization	Code enforcement activities, related to specific obligations under the MS4 Program, conducted in conformance with the County's zoning and environmental ordinances to identify and resolve code violations (inoperable vehicles, tag & tows, trash & debris, outside storage, and junk storage) negatively impacting communities and the environment	1/1/2024-6/30/2024	140
Henricopolis	Soil Test Voucher Program	January 1, 2024 – June 30, 2024	14
DPW-DPU	Car Wash Brochures	05/2024	110,000
DPW-ESD	Earth Day- Deep Run Park	04/20/2024	1300 Attendees
DPW- ESD Road Maintenance	Juneteenth at Dorey Park	06/15/2024	12000 Attendees

Goal: 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

Department / Division	Activity	Date	# of Individuals / Households Reached
DPU – KHB	Earth Day- Science Museum	04/13/24	200 Henrico Residents
DPU – KHB	Earth Day- Deep Run Park	04/13/24	200 Henrico Residents
DPW-ESD	Earth Day- Deep Run Park	04/20/2024	1300 Attendees

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Department / Division	Activity	Date	# of Individuals / Households Reached
DPW-ESD	Shred It Earth Day Event	04/22/2024	300 Attendees

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Department / Division	Activity	Date	# of Individuals / Households Reached
Community Revitalization	Woodland Cemetery Cleanup	01/13/2024	6 Volunteers
Community Revitalization	Woodland Cemetery Cleanup	04/6/2024	10 Volunteers
Community Revitalization	Woodland Cemetery Cleanup	04/20/2024	8 Volunteers
Community Revitalization	Woodland Cemetery Cleanup	05/4/2024	9 Volunteers
Community Revitalization	Woodland Cemetery Cleanup	05/18/2024	6 Volunteers
Community Revitalization	Woodland Cemetery Cleanup	06/15/2024	8 Volunteers
Community Revitalization	Woodland Cemetery Cleanup	06/29/2024	10 Volunteers
Community Revitalization	Assistance program	03/16/2024	15 Volunteers
Community Revitalization	Assistance program	03/22/2024	15 Volunteers
Community Revitalization	Assistance program	03/29/2024	8 Volunteers
Community Revitalization	Assistance program	04/5/2024	3 Volunteers
Community Revitalization	Assistance program	04/12/2024	3 Volunteers
Community Revitalization	Assistance program	04/18/2024	20 Volunteers
Community Revitalization	Assistance program	05/17/2024	4 Volunteers
DPW- ESD Road Maintenance	Juneteenth at Dorey Park	06/15/2024	12000 Attendees

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Goal: Develop an outreach program with public and private golf courses located within Henrico County that discharge to the permittee's MS4 that would encourage implementation of integrated management practice (IMP) plans and techniques to reduce runoff of fertilizer and pesticides

Recreation & Parks conducts outreach annually; however, this outreach did not occur during this reporting period.

Goal: Promote, publicize, and facilitate the proper management and disposal of used oil and household hazardous wastes

Department / Division	Activity	Date	# of Individuals / Households Reached
Fire	MS4 educational posters in all stations	Always	Unknown

Goal: Promote and publicize the proper disposal of pet waste and household yard waste

Department / Division	Activity	Date	# of Individuals / Households Reached
Community Revitalization	Neighborhood meetings conducted to discuss zoning and environmental ordinances (grass & weeds, trash & debris, inoperative vehicles, outside storage, etc.). The meetings are also used to promote opportunities such as the Assistance Program, enterprise zones, and CDBG fund projects	1/1/2024-6/30/2024	3

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Department / Division	Activity	Date	# of Individuals / Households Reached
Community Revitalization	To maintain healthy and attractive neighborhoods, community cleanups are designated for older, at-risk neighborhoods to remove bulky yard debris such as furniture, trash, or appliances.	1/1/2024-6/30/2024	6
DPW-ESD	Animal Shelter Rabies Clinic	02/10/2024	52
DPW-ESD	Pet Expo at Richmond Raceway	02/24/2024	104

Goal: Promote and publicize the use of the permittee's litter prevention program

Department / Division	Activity	Date	# of Individuals / Households Reached
DPW-ESD	Earth Day- Deep Run Park	04/20/2024	1300 Attendees
DPW-ESD	Shred It Earth Day Event	04/22/2024	300 Attendees
Henricopolis	Distributed copies of "Living in Your Watershed" to all 4 th grade students and teachers in Henrico County Public Schools to educate about our local watershed and the importance of keeping it clean from litter and other pollutants	04/22/2024	4,000 HCPS 4 th grade students and teachers

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Department / Division	Activity	Date	# of Individuals / Households Reached
Henricopolis	K-12 Classroom Programs- environmental education sessions with a focus on non-point source pollution, litter and pet waste management.	1/1/2024-6/30/2024	Approx. 200 Henrico County Students
DPU – KHB	School presentations to classes on litter prevention/recycling	1/1/2024-6/30/2024	55 Classroom Presentations of 1674 Henrico Students
DPU – KHB	Podcasts and Community Group Presentations with discussions of litter prevention/reduction	1/1/2024-6/30/2024	9 Presentations with 435 Henrico Residents
DPU – KHB	Litter prevention/reduction activities with County Residents	1/1/2024-6/30/2024	7 Activities with 451 Henrico Residents

Goal: Promote and publicize methods for residential car washing that minimize water quality impacts

Department / Division	Activity	Date	# of Individuals / Households Reached
DPW-DPU	Car Wash Brochures	05/2024	110,000

Goal: Promote and publicize the proper use, application, and disposal of pesticides, herbicides, and fertilizers by public, commercial, and private applicators and distributors

Department / Division	Activity	Date	# of Individuals / Households Reached
Extension Service	Pesticide Safety and the PMG (Virtual) <i>Henrico Master Gardener Interns</i>	02/02/2024	27

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Goal: Encourage private property owners to implement voluntary stormwater management techniques and/or retrofits

Department / Division	Activity	Date	# of Individuals / Households Reached
Henricopolis	Virginia Conservation Assistance Program	1/1/2024-6/30/2024	15 site visits

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Evaluations of Program Effectiveness

Public Utilities

DPU continues to experience growth in our outreach programs that have seen increased effectiveness in getting the word out to our citizens. We utilize many different methods to ensure our residents are notified. We utilize social media, we hold programs within our schools, and we attend neighborhood/community functions.

Fire

With new updated information and procedures that Henrico County Div. of Fire intends to implement pertaining to MS4 and environmental needs, the Division of Fire intends to continue and improve upon the information being provided to county employees and the public.

It is the opinion that the displaying of the MS4 posters can provide some of the needed information and provide a constant reminder to employees and the public the importance of understanding, following, and maintaining the procedures and information pertaining to the environment and the needs to protect it. By providing access to the stations, and information pertaining to fire safety and other needs. This may be accomplished through a question- and-answer session, lecture, show & tell, and/or display of information.

Community Revitalization

Participation in neighborhood meetings, code enforcement, and community programs like the annual cleanups and revitalization projects are critical to programmatic success and sustaining environmental quality. Program effectiveness can be evaluated through these efforts; for example, we have assisted in detecting illicit discharge, achieved compliance towards BMP cleanups, and increased citizens' awareness of environmental and zoning ordinances. These activities are in partnership with field inspectors

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proactively identifying code violations impacting communities and quality of life.

Extension Service

Master Gardener Intern Training

Training for Master Gardeners in the safe use of pesticides and the use of the Pest Management Guide: Home Grounds and Animals published by Virginia Tech is intended to inform them so they can direct members of the public to the correct resources for more information on Pesticide use, such as Extension Agents and experts and diagnostic services. In 2024 a total of 27 new Master Gardener Trainees passed the course to continue their training as Master Gardener Interns.

Public Works

DPW - ESD believes their outreach program is effective in educating citizens on proper pet waste disposal, our online spill reporting service, local total maximum daily loads that apply to Henrico County, and only rain down the drain messaging through its participation in the Middle James Roundtable, through educational mailings, and attendance at local community functions. Items with environmental educational messages are distributed to the public at these events.

DPW-Road Maintenance believes the outreach programs are effective in getting information out to our citizens. Various methods are used to notify as many citizens as possible, with the majority of outreach coming from community events and individual notification.

The leaf program's mailing method for communicating leaf pickup was the primary outreach program this year. Leaf collection program effectiveness is assessed annually by the total number of customer-placed vacuum leaf orders received and completed, the total number of violation orders

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processed and completed, and customer feedback. Recommendations for future changes will be based on the assessment of program effectiveness and updates will be made as necessary to improve the program overall.

Henrico County employs SOAR 365 to remove litter from County right-of-ways. The pick-up is performed daily, and progress is tracked in pounds of litter removed as well as the number of bags of litter removed. SOAR 365 is also used bi-weekly on the West and East End maintenance yards to reduce floatables from entering the MS4. Program effectiveness is evaluated based on the pounds of litter removed, as this decreases the quantity of floatables entering the MS4. Between 01/01/2024 and 06/30/2024, SOAR 365 removed 152,000 pounds or 5,111.35 bags of litter and 29 tires from county right-of-ways and maintenance facilities.

Each annual report shall provide a summary of voluntary retrofits completed on private property used to demonstrate pollutant reduction requirements. Note that any voluntary project for which the permittee seeks to use for pollutant reduction requirements must be tracked and reported.

Voluntary Retrofits Completed on Private Property Used to Demonstrate Compliance with Pollutant Reduction Requirements	0
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Each annual report shall provide a summary of voluntary stormwater management techniques encouraged on private property.

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Voluntary Stormwater Management Techniques Encouraged on Private Property

Department / Division	Activity	Date	# of Individuals / Households / Reaches
Henricopolis	<p>Below are 11 different voluntary stormwater BMPs that Henricopolis can provide technical and financial assistance for County property owners. For more information, refer to http://henrico.us/services/virginia-conservation-assistance-program/</p> <p><u>Basic BMPs</u> Impervious Surface Removal <u>Intermediate Level BMPs</u> Conversion Landscaping Rain Gardens Dry Well Rainwater Harvesting Vegetated Stormwater Conveyance</p> <p><u>Advanced BMPs</u> Bioretention Infiltration Basin Constructed Wetlands Permeable Pavement Green Roofs</p>	Jan 1, 2024– June 30, 2024	20 inquiries; 6 practice completed; 3 practices approved

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MS4 PROGRAM IMPLEMENTATION TRAINING

PERMIT LANGUAGE

The permittee shall conduct stormwater training for permittee employees. The training requirement may be fulfilled all or in part through regional training programs involving two or more MS4 localities; provided, however, that the permittee shall remain individually liable for its failure to comply with the training requirements in this state 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:

- 1) The permittee shall provide biennial training to appropriate field personnel in the recognition and reporting of illicit discharges.
- 2) The permittee shall provide biennial training to appropriate employees in good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance.
- 3) Within 36 months of the effective date of the permit, the permittee shall incorporate good housekeeping training strategies for each of the following activities:
 - a. Discharging water pumped from construction and maintenance activities;
 - b. Bulk storage of soil, compost, mulch and landscaping waste stockpiles; and
 - c. Preventing pollutant discharge into the MS4 from leaking permittee-owned or operated vehicles and equipment. Leaked fluids shall be cleaned up and disposed of properly, as soon as possible but no later than 24 hours after discovery.
- 4) The permittee shall provide biennial training to appropriate employees in good housekeeping and pollution prevention practices that are to be employed in and around permittee maintenance and public works facilities.
- 5) The permittee shall ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified per the Virginia Pesticide Control Act (§3.2-3900 et seq. of the Code of Virginia). The requirements of the Virginia Pesticide Control Act are established by the Virginia Pesticide Control Board.

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- 6) The permittee shall have a program to ensure that County plan reviewers, inspectors, program administrators and construction site operators (e.g. responsible land disturber) are trained and obtain the appropriate certifications to the extent required under the Virginia Erosion and Sediment Control Law and attendant regulations.
- 7) The permittee shall have a program to ensure that the applicable County employees obtain the appropriate certifications as required under the Virginia Stormwater Management Act and its attendant regulations to implement the modified stormwater management design criteria.
- 8) The permittee shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around county recreation facilities.
- 9) The appropriate emergency response employees shall have training in spill response. A summary of the training and/or certification program provided to emergency response employees shall be included in the first annual report.
- 10) 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.

SPECIFIC REPORTING REQUIREMENTS

- **Each annual report shall include a list of training events, the date and the estimated number of individuals attending each event.**
- **The initial annual report shall include documentation of employee emergency spill response training and/or certification.**

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.2.k of the MS4 Permit are assigned to the following Departments / Divisions of the County:

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All Departments / Divisions will ensure that appropriate personnel participate in County-wide training on a biennial basis for the following topics:

1. recognition and reporting of illicit discharges;
2. good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance; and
3. good housekeeping and pollution prevention practices that are to be employed in and around County facilities;
4. strategies for discharging water pumped from construction and maintenance activities, bulk storage of soil, compost, mulch, and landscaping waste stockpiles, and preventing pollutant discharge into the MS4 from leaking permittee-owned or operated vehicles and equipment, as well as cleanup and proper disposal within 24 hours of discovery.

Building Inspections

No later than **July 31 of each year**, Building Inspections will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by Building Inspections staff during the previous permit year, including the date of the event and the number of Building Inspections staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, Building Inspections will provide DPW with documentation of Building Inspections employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

Community Revitalization

Community Revitalization staff attend spill prevention, control and countermeasure training and stormwater pollution prevention plan training.

No later than **July 31 of each year**, Community Revitalization will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by Community Revitalization staff during the previous permit year, including the date of the event and the number of Community Revitalization staff attending the training events for inclusion in the annual reports due October 1.

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No later than **July 31, 2024**, Community Revitalization will provide DPW with documentation of Community Revitalization employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

Economic Development Authority (EDA)

No later than **July 31 of each year**, EDA will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by EDA staff during the previous permit year, including the date of the event and the number of EDA staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, EDA will provide DPW with documentation of EDA employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

Extension Service

No later than **July 31 of each year**, Extension Service will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by Extension Service staff during the previous permit year, including the date of the event and the number of Extension Service staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, Extension Service will provide DPW with documentation of Extension Service employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

Division of Fire (Fire)

All Fire operations personnel are trained to a level of Hazardous Materials Operations. This program is multiple hours and is provided in the employees initial training. Reviews of the spill response are conducted yearly. Hazardous Material Team members are further trained to a specialist level with several additional weeks of training to become subject matter and response experts. They provide additional on duty resources, equipment, response availability and expertise to the services provided to their fellow fire

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fighters and the citizens. This group of 60 personnel train weekly to mitigate spills and leaks.

No later than **July 31 of each year**, Fire will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by Fire staff during the previous permit year, including the date of the event and the number of Fire staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, Fire will provide DPW with documentation of Fire employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

General Services (DGS)

Training opportunities provided to DGS staff to address the following MS4 Permit requirements include:

Spill Prevention Control & Countermeasure Training

Spill Prevention Control & Countermeasure Training shall include the following topics:

If site is unsafe:

- Evacuate and move to a safe distance away from the release; then
- Follow Hazardous Material Spill Notification steps. If safe to do so (based on specifications from material safety data sheet (MSDS) and product technical manual and considering external factors):
- Wear appropriate personal protective equipment per MSDS specification;
- Take action to prevent any further release of the substance;
- Contain the release with spill response materials and equipment; then
- Follow Hazardous Material Spill Notification steps.
- Ensure spill debris is properly managed and disposed of.

AST/UST Operator Training

A training program for personnel conducting the daily and weekly AST/UST inspections shall include the following topics:

- Basic information regarding occupational safety, hazard recognition.
- Personnel protection, and facility operations.
- The procedures to be followed in conducting the daily visual and weekly facility

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inspections.

- The procedures to be followed upon recognition of a hazard or the potential for a hazard.
 - The procedure for evaluating the condition of the ASTs and appurtenances.
- Note: Training shall be conducted within six months after being brought into use and every three years thereafter or upon any changes to the contents of the initial training program and shall be documented and maintained in the facility records.

Refrigerant Recovery Training

R-22 Recovery Training shall include the following topics:

- To oversee the removal and compliance of removal of refrigerant from equipment at Henrico County facilities by contractors/vendors.
- To attach approved refrigerant recovery equipment, to ensure that proper storage containers are in use.
- To have Henrico County B&G employee or approved representative to witness the removal refrigerant R-22 and compliance of regulations regarding the removal of refrigerant R-22.

Storm Water Inspection Training

The purpose of the Stormwater Inspection training is to:

- Educate County staff regarding good municipal site housekeeping and the requirements of the County's Municipal Separate Storm Sewer System (MS4) Permit as they relate to municipal facilities.
- To serve as a learning experience so team members become familiar with what is expected on all municipal facilities.
- To train staff to conduct inspections of stormwater infrastructure.

No later than **July 31 of each year**, DGS will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by DGS staff during the previous permit year, including the date of the event and the number of DGS staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, DGS will provide DPW with documentation of DGS employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

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Henricopolis Soil and Water Conservation District (HSWCD)

No later than **July 31 of each year**, HSWCD will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by HSWCD Service staff during the previous permit year, including the date of the event and the number of HSWCD staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, HSWCD will provide DPW with documentation of HSWCD employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

Public Library (Library)

No later than **July 31 of each year**, Library will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by Library staff during the previous permit year, including the date of the event and the number of Library staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, Library will provide DPW with documentation of Library employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

Mental Health and Developmental Services (MH/DS)

No later than **July 31 of each year**, MH/DS will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by MH/DS staff during the previous permit year, including the date of the event and the number of MH/DS staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, MH/DS will provide DPW with documentation of MH/DS employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

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Planning Department (Planning)

No later than **July 31 of each year**, Planning will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by Planning staff during the previous permit year, including the date of the event and the number of Planning staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, Planning will provide DPW with documentation of Planning employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

Division of Police (Police)

There are no Police employees or contractors that apply pesticides or herbicides at the Range or Villa Park Central Station. General Services maintains the exterior at the Animal Shelter, and Tactical Services buildings, and is responsible for applying pesticides and herbicides at these locations. Police Division emergency response employees do not receive training and/or certification in spill response. Division members are instructed to contact Communications to deploy Fire's HAZMAT team. Three members of the Commercial Vehicle Inspection team are trained to identify hazardous materials placards on vehicles. If a vehicle is leaking a hazardous material, members are instructed to report the incident, including placard information to Communications to deploy Fire's HAZMAT team. Officers are instructed to avoid contact with the material.

No later than **July 31 of each year**, Police will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by Police staff during the previous permit year, including the date of the event and the number of Police staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, Police will provide DPW with documentation of Police employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

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Recreation and Parks

Park Services staff members that apply pesticides are either Registered Technicians or Certified Pesticide Applicators through VDACS. Each of these staff members must complete the VDACS required re-certification class every 2 years.

No later than **July 31 of each year**, Recreation and Parks will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by Recreation and Parks staff during the previous permit year, including the date of the event and the number of Recreation and Parks staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, Recreation and Parks will provide DPW with documentation of Recreation and Parks employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

Public Schools (Schools)

Henrico County Public Schools recognizes that a healthy and sustainable environment is important to the well-being of its citizens. Educating our employees to recognize activities that impact our environment and training them to plan and respond appropriately are primary keys to success of our organizational commitment to sustainability and support of the MS4. Consistent with this philosophy and with commitment from executive management, Henrico County Public Schools Department of Construction and Maintenance developed and implemented an Environmental and Sustainability Management System (ESMS) as a management tool to document and measure the organization's environmental performance and sustainability. In support of its commitment and vision to be an innovative leader in education excellence, Henrico County Public Schools through its Department of Construction and Maintenance promotes a culture of environmental sustainability and supports sustainability in its daily operations. Through implementation of the sustainability program, the organization and its employees gain a better understanding of environmental regulatory requirements, minimize risk for environmental liabilities, and save funds by conserving resources. These measurable successes highlight the benefits of promoting sustainability within the organization. Benefits also include increased employee awareness of environmental issues (including community outreach through education, and watershed stewardship that staff learn and return in practice to their communities), developing, implementing, and documenting environmentally sustainable practices (an organizational management tool), implementing proactive sustainable management systems (with economic

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benefit), and higher achievement toward assuring that all students will learn in a healthier learning environment that efficiently and effectively supports the instructional program. Increased employee awareness provides a foundation for community outreach, as environmental practices and experiences are shared by employees within their communities, with neighbors, and other organizations and businesses through model activities, discussions, and specific purchases which promote sustainable practices. Sustainability training and education provided to staff promotes watershed stewardship which affects or alters their preceding daily practices and procedures in the workplace with respect to watershed protection and influences their own personal practices in their daily lives, which in leading by example has influence on watershed protection by others in their communities and neighborhoods. The process of developing, implementing, and documenting sustainable practices and implementing proactive sustainable practices

No later than **July 31 of each year**, Schools will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by Schools staff during the previous permit year, including the date of the event and the number of Schools staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, Schools will provide DPW with documentation of Schools employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

Public Utilities (DPU)

DPU staff attend spill prevention, control and countermeasure training and stormwater pollution prevention plan training.

No later than **July 31 of each year**, DPU will provide DPW with a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by DPU staff during the previous permit year, including the date of the event and the number of DPU staff attending the training events for inclusion in the annual reports due October 1.

No later than **July 31, 2024**, DPU will provide DPW with documentation of DPU employee emergency spill response training and/or certification for inclusion in the annual report due October 1, 2024.

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Public Works

Opportunities for training and certification for ESC and SWM is offered to the environmental employees in Road Maintenance. Any other appropriate staff will be given the opportunity for this training and certification. Appropriate training is also provided to all plan review staff and inspection staff in DPW - Environmental Services division and Design division to obtain and maintain applicable ESC and SWM certifications.

Spill response training for employees in DPW - Road Maintenance is provided by the environmental employees in Road Maintenance.

DPW will incorporate good housekeeping training strategies for discharging water pumped from construction and maintenance activities, bulk storage of soil, compost, mulch and landscaping waste stockpiles, and preventing pollutant discharge into the MS4 from leaking permittee-owned or operated vehicles and equipment by **January 16, 2027**.

Training for DPW staff for application and certification requirements related to the Virginia Pesticide Control Act (§3.2-3900 et seq. of the Code of Virginia) is provided by Extension Services. DPW contractors must maintain their own certifications.

No later than **July 31 of each year**, DPW will develop a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by DPW staff during the previous permit year, including the date of the event and the number of DPW staff attending the training events for inclusion in the annual reports due March 31.

DPW will include a list of the training events related to the MS4 Permit requirements that were conducted and/or attended by County staff during the previous permit year, including the date of the event and the number of County staff attending the training events in the annual reports due **October 1**.

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PART I.B.2.k

MS4 PROGRAM IMPLEMENTATION TRAINING

Each annual report shall include a list of training events, the date and the estimated number of individuals attending each event.

Training Topics and Events Attended Between January 1, 2024 and June 30, 2024

Topic: The permittee shall provide biennial training to appropriate field personnel in the recognition and reporting of illicit discharges

Event	Date	# of Individuals
Webnet – MS4 Illicit Discharge Detection and Reporting Training	01/01/2024 – 06/30/2024	69
MS4 Illicit Discharge - Fire	01/01/2024	641
FTC Storm Water Management Procedures - Fire	01/01/2024	641
MS4 SWPPP Annual Training - Fire	01/10/2024	10
Facilities Maintenance Supervisors MS4 training by MMA - Schools	01/11/2024	32
CAM MS4 Training: Illicit Discharges - DGS	03/18/2024-03/20/2024	32
CAM MS4 Training: Illicit Discharges - DGS	06/04/2024	7

Topic: The permittee shall provide biennial training to appropriate employees in good housekeeping and pollution prevention practices that are to be employed in and around County recreation facilities; maintenance and public works facilities; and roads, streets, and parking lots.

Event	Date	# of Individuals
Webnet – MS4 Good Housekeeping & Pollution Prevention Training	01/01/2024 – 06/30/2024	144
MS4 Training: Pollution Prevention & Good House Keeping - DGS	03/18/2024 - 03/20/2024	32
MS4 Training: Pollution Prevention & Good House Keeping - DGS	06/04/2024	7

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Topic: The permittee shall ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified per the Virginia Pesticide Control Act (§3.2-3900 et seq. of the Code of Virginia). The requirements of the Virginia Pesticide Control Act are established by the Virginia Pesticide Control Board

N/A

Topic: The permittee shall have a program to ensure that County plan reviewers, inspectors, program administrators and construction site operators (e.g. responsible land disturber) are trained and obtain the appropriate certifications to the extent required under the Virginia Erosion and Sediment Control Law and attendant regulations

Topic: The permittee shall have a program to ensure that the applicable County employees obtain the appropriate certifications as required under the Virginia Stormwater Management Act and its attendant regulations to implement the modified stormwater management design criteria

Event	Date	# of Individuals
DEQ Stormwater Management Inspector (DPW-ESD)	03/13/2024-03/14/2024	1
DEQ Stormwater Management Inspector (DPW-ESD)	04/16/2024-04/17/2024	1
DEQ – GoToWebinar – Virginia Stormwater Management Handbook Overview and How to Use It	05/20/2024	2
DEQ – Overview of VA SWM Handbook and New BMPs for Inspection Professionals	05/22/2024	7

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Topic: The appropriate emergency response employees shall have training in spill response.

Event	Date	# of Individuals
Hazardous Materials Response - Fire	01/18/2024	641
HazMat Specialists - Fire	01/18/2024	39
New Hire SPCC Training – DPU	01/31/2024	7
New Hire SPCC Training – DPU	03/08/2024	3
New Hire SPCC Training – DPU	04/30/2024	3

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Topic: Other

Event	Date	# of Individuals
Agriculture Soil Science, Soil Fertility, and Crop Production- Henricopolis	01/04/2024	1
Wetland Delineation Course (DPW- ESD)	06/04/2024-06/07/2024	1

The initial annual report shall include documentation of employee emergency spill response training and/or certification.

Emergency Response Employee Spill Response Training/Certifications Attended/Obtained Between January 1, 2024 and June 30, 2024

Event/Certification	Date	# of Individuals
Hazardous Materials Response	01/18/2024	641
HazMat Specialists	01/18/2024	39
New Hire SPCC Training – DPU	01/31/2024	7
New Hire SPCC Training – DPU	03/08/2024	3
New Hire SPCC Training – DPU	04/30/2024	3

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PART I.B.2.I

MS4 PROGRAM IMPLEMENTATION WATER QUALITY SCREENING PROGRAMS

PERMIT LANGUAGE

The following screening programs shall be implemented in addition to the monitoring required by Part I.C:

Dry Weather Screening Program: The permittee shall continue ongoing efforts to detect the presence of illicit connections and unauthorized discharges to the permittee's MS4.

- (a) The permittee shall continue to implement a program of dry weather screening in areas of concern as identified by the permittee including but not limited to: commercial car washes, car dealerships, pet kennels, restaurants, areas with a history of complaints, and areas upstream of sensitive ecosystems. The permittee shall screen at a minimum, 100 of the County's MS4 outfalls each year.
- (b) Criteria for selection of outfalls to be screened as required by Part I.B.2.I)1)(a) above shall include but is not limited to the following:
 - (1) List of sites requiring further investigation, as previously identified;
 - (2) Age and density of development with the likelihood of illicit connections such as older residential, commercial and industrial areas;
 - (3) Outfalls representing the general land uses of Henrico County;
 - (4) Poorly maintained gas stations, service stations, and shopping centers;
 - (5) Presence of environmentally sensitive features downstream; and
 - (6) History of complaints received on illicit discharges.
- (c) The permittee may adopt a risk-based approach to dry weather screening identifying observation points based upon illicit discharge risks upstream of an outfall. Observation points may include points of interconnection, manholes, points of discharge, conveyances, or inlets suspected to have a high likelihood of receiving illicit discharges:
- (d) Each observation point screened may be counted as one outfall screening activity equivalent and counted towards the requirements of Part I.B.2.I)1)(a), however, at least 50% of the minimum annual screening events must include outfall screening;

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- (e) Illicit discharges reported by the public and subsequent investigations may not be counted as screening events; however, once the resolution of the investigation and the date the investigation was closed has been documented, an observation point may be established for future screening events; and
- (f) The permittee's dry weather screening program shall use a checklist or mechanism to track the following information for dry weather screening events:
- (1) The unique outfall identifier for the outfall or observation point;
 - (2) Indication a minimum of 72 hours has passed since the last precipitation event;
 - (3) Site descriptions (e.g., conveyance type and dominant watershed land uses);
 - (4) Observed indicators of possible illicit discharge events such as, floatables, deposits, stains, and vegetative conditions (e.g., dying or dead vegetation, excessive vegetative growth, etc.);
 - (5) Whether or not a discharge was observed;
 - (6) If a discharge was observed, the visual characteristics of the discharge (e.g., odor, color, clarity) and the physical condition of the outfall; and
 - (7) For observation points, the location, downstream outfall unique identifier, and risk factors or rationale for establishing the observation point.

Wet Weather Screening Program: In addition to the monitoring required in Part I.C., the permittee shall continue to investigate, and address areas within their jurisdiction that are suspected to be contributing excessive levels of pollutants to the MS4. The permittee shall maintain written procedures for a wet weather screening program which shall include standard operating procedure to be used for initial screening and follow-up purposes. The written procedures shall be incorporated as part of the MS4 Program Plan.

SPECIFIC REPORTING REQUIREMENTS

- Each annual report shall include a list of locations upon which dry weather screening was conducted, the results, and any follow-up actions including maintenance and/or repair of infrastructure or outfalls performed as a result of the dry weather screening.
- Each annual report shall include a list of locations upon which wet weather

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screening was conducted, the results, weather conditions at the time sample was collected to include date and approximate time of most recent storm event preceding sample collection, long term trends analyses, and any follow-up actions including maintenance and/or repair of infrastructure or outfalls performed as a result of the wet weather screening.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.2.I of the MS4 Permit are assigned to the following Departments / Divisions of the County:

Public Works (DPW)

DPW will continue to implement a program of dry weather screening in areas of concern as identified by the County including but not limited to: commercial car washes, car dealerships, pet kennels, restaurants, areas with a history of complaints, and areas upstream of sensitive ecosystems.

DPW will develop a list of outfalls subject to dry weather screening based on the areas of concern identified by the County and the following:

- (1) List of sites requiring further investigation, as previously identified;
- (2) Age and density of development with the likelihood of illicit connections such as older residential, commercial and industrial areas;
- (3) Outfalls representing the general land uses of Henrico County;
- (4) Poorly maintained gas stations, service stations, and shopping centers;
- (5) Presence of environmentally sensitive features downstream; and
- (6) History of complaints received on illicit discharges.

DPW will screen no fewer than 100 of the MS4 outfalls on the list of outfalls subject to dry weather screening **each year between January 1, 2024 and June 30, 2028.**

DPW will screen no fewer than 50 of the MS4 outfalls on the list of outfalls subject to dry weather screening **between July 31, 2028 and January 15, 2029.**

DPW will continue to investigate and address areas within their jurisdiction that are suspected to be contributing excessive levels of pollutants to the MS4 by conducting wet weather screening.

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PART I.B.2.I

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DPW will utilize its MS4 database to track the following information for dry weather screening:

- (1) The unique outfall identifier for the outfall or observation point;
- (2) Indication a minimum of 72 hours has passed since the last precipitation event;
- (3) Site descriptions (e.g., conveyance type and dominant watershed land uses);
- (4) Observed indicators of possible illicit discharge events such as, floatables, deposits, stains, and vegetative conditions (e.g., dying or dead vegetation, excessive vegetative growth, etc.);
- (5) Whether or not a discharge was observed;
- (6) If a discharge was observed, the visual characteristics of the discharge (e.g., odor, color, clarity) and the physical condition of the outfall; and
- (7) For observation points, the location, downstream outfall unique identifier, and risk factors or rationale for establishing the observation point.

DPW will develop a list of MS4 structures subject to wet weather screening based on the areas of concern as identified by the County that are within the drainage area to the MS4 structure, including:

- (1) fertilizer storage yards,
- (2) mulch / soil storage yards,
- (3) building supply storage yards,
- (4) used automobile lots,
- (5) construction equipment storage areas,
- (6) automobile salvage yards, and
- (7) areas of previously identified spill / IDDE complaints.

DPW will screen no fewer than 25 of the MS4 structures identified as subject to wet weather screening **each year between January 1, 2024 and June 30, 2028.**

DPW will screen no fewer than 6 of the MS4 structures identified as subject to wet weather screening **between July 31, 2028 and January 15, 2029.**

The MS4 structures will be subject to the established inspection procedure (included in I.B.2.h) evaluating identified flows and maintenance and repair needs.

Depending on the information observed and gathered during the wet weather screening inspections, identified flows may need to be sampled to determine the source of the flow. Whether or not samples are collected, suspected illicit discharges will be forwarded to the IDDE investigator as a potential illicit discharge for follow-up.

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No later than **July 31 of each year**, DPW will develop a report that includes the following information for inclusion in the annual reports due October 1:

1. a list of the MS4 outfalls upon which dry weather screening was conducted during the reporting period;
2. the findings of the dry weather screenings;
3. any follow-up actions (including maintenance and/or repair of infrastructure or outfalls) performed as a result of the dry weather screenings.

No later than **July 31 of each year**, DPW will develop a report that includes the following information for inclusion in the annual reports due October 1:

1. a list of locations upon which wet weather screening was conducted during the reporting period;
2. the date of the wet weather screenings;
3. the findings of the wet weather screenings;
4. the weather conditions at the time of the wet weather samplings including approximate time of most recent storm event preceding sampling); and
5. any follow-up actions (including maintenance and/or repair of infrastructure or outfalls) performed as a result of the wet weather screenings.

No later than **July 31 of each year**, DPW will develop a long-term trends analyses based on the results of the wet weather screening program for inclusion in the annual reports due October 1.

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PART I.B.2.I

MS4 PROGRAM IMPLEMENTATION WATER QUALITY SCREENING PROGRAMS

Each annual report shall include a list of locations upon which dry weather screening was conducted, the results, and any follow-up actions including maintenance and/or repair of infrastructure or outfalls performed as a result of the dry weather screening.

Dry Weather Screening Conducted between 01/01/2024 and 06/30/2024

MS4 Outfall	Findings	Follow-Up Action
EN000000008020	No Issues Identified	None Required
EN000000008023	No Issues Identified	None Required
EN000000008343	No Issues Identified	None Required
EN000000007983	No Issues Identified	None Required
EN000000007937	No Issues Identified	None Required
EN000000003352	No Issues Identified	None Required
EN000000003354	No Issues Identified	None Required
EN000000008444	No Issues Identified	None Required
EN000000008445	No Issues Identified	None Required
EN000000000233	No Issues Identified	None Required
EN000000006463	No Issues Identified	None Required
EN000000006464	No Issues Identified	None Required
EN000000008194	No Issues Identified	None Required
EN000000008191	No Issues Identified	None Required
EN000000005099	No Issues Identified	None Required
EN000000008193	No Issues Identified	None Required
EN000000008192	No Issues Identified	None Required
EN000000005100	No Issues Identified	None Required
EN000000003573	No Issues Identified	None Required
EN000000013219	No Issues Identified	None Required

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MS4 Outfall	Findings	Follow-Up Action
EN000000006753	No Issues Identified	None Required
EN000000007792	No Issues Identified	None Required
EN000000000043	No Issues Identified	None Required
EN000000007870	No Issues Identified	None Required
EN000000007921	No Issues Identified	None Required
EN000000007928	No Issues Identified	None Required
EN000000007796	No Issues Identified	None Required
EN000000007768	No Issues Identified	None Required
EN000000006044	No Issues Identified	None Required
EN000000003027	No Issues Identified	None Required
EN000000003028	No Issues Identified	None Required
EN000000007909	No Issues Identified	None Required
EN000000007920	No Issues Identified	None Required
EN000000007912	No Issues Identified	None Required
EN000000003032	No Issues Identified	None Required
EN000000003029	No Issues Identified	None Required
EN000000007930	No Issues Identified	None Required
EN000000002663	No Issues Identified	None Required
EN000000000956	No Issues Identified	None Required
EN000000000953	No Issues Identified	None Required
EN000000000954	No Issues Identified	None Required
EN000000013183	No Issues Identified	None Required
EN000000000951	No Issues Identified	None Required
EN000000004586	No Issues Identified	None Required
EN000000004585	No Issues Identified	None Required
EN000000006917	No Issues Identified	None Required
EN000000001802	No Issues Identified	None Required
EN000000007910	No Issues Identified	None Required
EN000000007891	No Issues Identified	None Required
EN000000007942	No Issues Identified	None Required
EN000000000955	No Issues Identified	None Required
EN000000007734	No Issues Identified	None Required
EN000000000769	No Issues Identified	None Required
EN000000007958	No Issues Identified	None Required

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MS4 Outfall	Findings	Follow-Up Action
EN000000002871	No Issues Identified	None Required
EN000000006066	No Issues Identified	None Required
EN000000008127	No Issues Identified	None Required
EN000000006064	No Issues Identified	None Required
EN000000001120	No Issues Identified	None Required
EN000000001329	No Issues Identified	None Required
EN000000005889	No Issues Identified	None Required
EN000000001349	No Issues Identified	None Required
EN000000008182	No Issues Identified	None Required
EN000000011302	No Issues Identified	None Required
EN000000000926	No Issues Identified	None Required
EN000000000911	No Issues Identified	None Required
EN000000000982	No Issues Identified	None Required
EN000000000983	No Issues Identified	None Required
EN000000000917	No Issues Identified	None Required
EN000000005162	No Issues Identified	None Required
EN000000008212	No Issues Identified	None Required
EN000000008213	No Issues Identified	None Required
EN000000008075	No Issues Identified	None Required
EN000000000888	No Issues Identified	None Required
EN000000000638	No Issues Identified	None Required
EN000000007979	No Issues Identified	None Required
EN000000007512	No Issues Identified	None Required
EN000000008089	No Issues Identified	None Required
EN000000000634	No Issues Identified	None Required
EN000000003575	No Issues Identified	None Required
EN000000000612	No Issues Identified	None Required
EN000000000908	No Issues Identified	None Required
EN000000005303	No Issues Identified	None Required
EN000000005305	No Issues Identified	None Required
EN000000005304	No Issues Identified	None Required
EN000000008072	No Issues Identified	None Required
EN000000008073	No Issues Identified	None Required
EN000000008074	No Issues Identified	None Required

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MS4 Outfall	Findings	Follow-Up Action
EN000000013251	No Issues Identified	None Required
EN000000001122	No Issues Identified	None Required
EN000000005026	No Issues Identified	None Required
EN000000008101	No Issues Identified	None Required
EN000000007736	No Issues Identified	None Required
EN000000008020	No Issues Identified	None Required
EN000000008023	No Issues Identified	None Required
EN000000008343	No Issues Identified	None Required
EN000000007983	No Issues Identified	None Required
EN000000007937	No Issues Identified	None Required
EN000000003352	No Issues Identified	None Required
EN000000003354	No Issues Identified	None Required
EN000000008444	No Issues Identified	None Required
EN000000008445	No Issues Identified	None Required
EN000000000233	No Issues Identified	None Required
EN000000006463	No Issues Identified	None Required
EN000000003575	No Issues Identified	None Required
EN000000000612	No Issues Identified	None Required
EN000000000908	No Issues Identified	None Required
EN000000005303	No Issues Identified	None Required
EN000000005305	No Issues Identified	None Required
EN000000005304	No Issues Identified	None Required
EN000000008072	No Issues Identified	None Required
EN000000008073	No Issues Identified	None Required
EN000000008074	No Issues Identified	None Required
EN000000013251	No Issues Identified	None Required
EN000000001122	No Issues Identified	None Required
EN000000005026	No Issues Identified	None Required
EN000000008101	No Issues Identified	None Required
EN000000007736	No Issues Identified	None Required

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Follow-Up Actions Performed as a Result of the Dry Weather Screening Conducted between 1/1/2024 and 06/30/2024

MS4 Structure	Follow-Up Action
None	None

HENRICO COUNTY MS4 PROGRAM PLAN

Each annual report shall include a list of locations upon which wet weather screening was conducted, the results, weather conditions at the time sample was collected to include date and approximate time of most recent storm event preceding sample collection, long term trends analyses, and any follow-up actions including maintenance and/or repair of infrastructure or outfalls performed as a result of the wet weather screening.

The data does not lend itself to an analysis of any long-term trends at this time.

Wet Weather Screening Conducted between 1/1/2024 and 06/30/2024

MS4 Structure	Last Significant Rainfall	Findings	Sample Collected	Weather Conditions at the time of Sample
EN000000008134	< 2 days	No Issues	No	N/A
EN000000008051	< 2 days	No Issues	No	N/A
EN000000004770	< 2 days	No Issues	No	N/A
EN000000013125	< 2 days	No Issues	No	N/A
EN000000013080	< 2 days	No Issues	No	N/A
EN000000002091	< 2 days	No Issues	No	N/A
EN000000004690	< 2 days	No Issues	No	N/A
EN000000000439	< 2 days	No Issues	No	N/A
EN000000008693	< 2 days	No issues	No	N/A
EN000000007861	< 2 days	No Issues	No	N/A
EN000000000726	< 2 days	No Issues	No	N/A
EN000000012106	< 2 days	No Issues	No	N/A
EN000000005083	< 2 days	No Issues	No	N/A

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MS4 Structure	Last Significant Rainfall	Findings	Sample Collected	Weather Conditions at the time of Sample
EN000000008018	< 2 days	No Issues	No	N/A
EN000000007919	< 2 days	No Issues	No	N/A
EN0000000013189	< 2 days	No Issues	No	N/A
EN000000007794	< 2 days	No Issues	No	N/A
EN000000003069	< 2 days	No Issues	No	N/A
EN000000007130	< 2 days	No Issues	No	N/A
EN000000008209	< 2 days	No Issues	No	N/A
EN000000007520	< 2 days	No Issues	No	N/A
EN000000008211	< 2 days	No Issues	No	N/A
EN000000002908	< 2 days	No Issues	No	N/A
EN000000002910	< 2 days	No Issues	No	N/A
EN000000007522	< 2 days	No Issues	No	N/A

Follow-Up Actions Performed as a Result of the Wet Weather Screening Conducted between 1/1/2024 and 06/30/2024

MS4 Structure	Follow-Up Action
There are no follow-up actions as a result of wet weather screening as no issues were identified	There are no follow-up actions as a result of wet weather screening as no issues were identified.

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PART I.B.2.m

MS4 PROGRAM IMPLEMENTATION INFRASTRUCTURE COORDINATION

PERMIT LANGUAGE

The permittee shall coordinate with the Virginia Department of Transportation (VDOT) regarding issues of MS4 physical-interconnectivity as described below.

- 1) 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.
- 2) 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.
- 3) 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 Special Condition (Part I.D.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.

- 4) Other TMDL Action Plans – The permittee shall inform VDOT of TMDL Action Plans and major milestones 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

HENRICO COUNTY MS4 PROGRAM PLAN

be accelerated or improved by mutual cooperation.

- 5) 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.
- 6) Illicit Discharge Detection & Elimination – The permittee shall continue to be responsible for implementing a program for illicit discharge detection and elimination, including dry weather field screening, for the permittee’s portion of the physically-interconnected MS4. As part of the annual coordination meeting, described in item (1) above, 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.
- 7) Water Quality Monitoring – The permittee shall conduct water quality monitoring as required by Part I.B.2.l) and Part I.C of this state permit. 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. The permittee and VDOT are encouraged to cooperate with one another to establish a joint monitoring network.
- 8) Annual Reports – As part of its Annual Report, the permittee shall document any coordination efforts with VDOT that occurred during the reporting year pursuant to requirements (1) through (7) above.

SPECIFIC REPORTING REQUIREMENTS

None specified.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.B.2.m of the MS4 Permit are assigned to the following Departments / Divisions of the County:

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Public Works (DPW)

No later than **June 30 of each year**, DPW will coordinate with VDOT to discuss the following aspects of the County's MS4 Program:

1. mapping;
2. Chesapeake Bay TMDL Action Plans;
3. other TMDL Action Plans;
4. credit for TMDL implementation;
5. Illicit Discharge Detection & Elimination; and
6. water quality monitoring.

DPW will include a summary of the coordination efforts with VDOT that occurred during the reporting year in the annual reports due **October 1**.

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PART I.B.2.m

MS4 PROGRAM IMPLEMENTATION INFRASTRUCTURE COORDINATION

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.

The most recent Annual Coordination Meeting was held in-person at VDOT Richmond District Complex with an option for virtual participation on December 13, 2023. There has not been an Annual Coordination Meeting held during the reporting period of January 16, 2024, through June 30, 2024. The details of the 2024 Annual Coordination Meeting will be recorded in the annual report due October 1, 2025

In addition to representatives from VDOT and Henrico County, Chesterfield County staff were also present. The following participated:

Alex Forasté	VDOT
Matt Stafford	VDOT
Scott Crafton	VDOT
Michelle Fults	VDOT
Joe Felton	VDOT
Nancy Grandfield	VDOT
JJ Lightfoot	VDOT
Kun Dong	VDOT
Kendall Allen	VDOT
Owen Donavan	VDOT
Joe Parfitt	VDOT
Stacey Garrett	Henrico County
Robin Wilder	Henrico County
Deana Williams	Henrico County
Ashley Tucker	Chesterfield County
Grayson Hughes	Chesterfield County
Kimberly Mervine	Chesterfield County
Aidan Kalua’u	Chesterfield County

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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.

VDOT, Chesterfield, and Henrico discussed their mapping efforts, including current and upcoming projects. All have mapping available as previously requested by the other attendees.

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 Special Condition (Part I.D.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.

Henrico’s Chesapeake Bay TMDL Action Plan was discussed and is available for review.

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.

Henrico’s action plan quantifies the areas accounted for (and unaccounted for) in the load reduction calculations in accordance with its permit.

Other TMDL Action Plans – The permittee shall inform VDOT of TMDL Action Plans and major milestones 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.

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Henrico's other TMDL Action Plans are available on its website.

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.

During the development of the TMDL Action Plans, Henrico did not include any projects that could potentially result in "double-counting" of pollutant reductions achieved in the physically-interconnected MS4.

Illicit Discharge Detection & Elimination – The permittee shall continue to be responsible for implementing a program for illicit discharge detection and elimination, including dry weather field screening, for the permittee's portion of the physically-interconnected MS4. As part of the annual coordination meeting, described in item (1) above, 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.

Henrico discussed its illicit detection and elimination (IDDE) program. When an illicit discharge that drains to the physically-interconnected MS4 is found, Henrico will notify VDOT and DEQ via email.

Water Quality Monitoring – The permittee shall conduct water quality monitoring as required by Part I.B.2.1) and Part I.C of this state permit. 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. The permittee and VDOT are encouraged to cooperate with one another to establish a joint monitoring network.

The water quality monitoring provisions of the MS4 Permit were discussed and any monitoring data collected from areas that drain into or from the physically-interconnected MS4 is available to VDOT.

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PART I.C.1 MONITORING REQUIREMENTS BIOLOGICAL STREAM MONITORING

PERMIT LANGUAGE

The permittee shall continue to implement a biological stream monitoring program to evaluate the condition of select stream sites within Henrico County as follows:

- a) Five (5) stream sites within the County shall be selected for monitoring during the term of this permit.
- b) Monitoring shall be conducted twice per year with one sample collected between July 1st and December 31st and one sample collected between January 1st and June 30th each year at each selected stream site.
- c) The permittee shall use a biological stream monitoring approach based on the “USEPA’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.

SPECIFIC REPORTING REQUIREMENTS

- The initial annual report shall include the list of sites to be monitored during the term of the state permit and monitoring protocols.
- Each annual report shall include a summary of the monitoring results and analyses and an interpretation of that data with respect to long-term patterns/trends.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.C.1 of the MS4 Permit are assigned to the following Departments / Divisions of the County:

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Public Works (DPW)

DPW has identified five stream sites where the required biological monitoring will be conducted. The sites are:

1. Stoney Run (James River basin)
2. Hungary Creek (Chickahominy River basin)
3. Upham Brook (Chickahominy River basin)
4. Cornelius Creek (James River basin)
5. Broadwater Creek (Chickahominy River basin)

DPW selected the stream sites based on several factors, including:

- the existence of current baseline data as a result of monitoring efforts conducted as a result of the previous permit,
- the goal to gather baseline data prior to conducting future stormwater retrofit projects,
- the goal to gather baseline data prior to anticipated intense development, and
- the goal to gather data in both the James River and Chickahominy River basins

DPW will conduct monitoring at each of the five identified stream sites twice per year - **once between January 1 and June 30 and once between July 1 and December 31** using a protocol that includes a stream habitat assessment and benthic macroinvertebrate sampling, identification, and analysis. This protocol aligns with that detailed in the EPA publication entitled *Rapid Bioassessment Protocols for Use in Streams and Wadeable Rivers* and has been used by the County since 2001 to satisfy biological monitoring requirements of the previous MS4 Permit.

DPW will include a summary of the monitoring conducted during the permit year, including monitoring results, analyses, and an interpretation of the data with respect to long-term patterns / trends in **each annual report due October 1**.

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PART I.C.1

**MONITORING REQUIREMENTS
BIOLOGICAL STREAM MONITORING**

The initial annual report shall include the list of sites to be monitored during the term of the state permit and monitoring protocols.

Biological Monitoring Sites

Site	River Basin
Stoney Run	James River
Hungary Creek	Chickahominy River
Upham Brook	Chickahominy River
Cornelius Creek	James River
Broadwater Creek	Chickahominy River

The protocol aligns with that detailed in the EPA publication entitled *Rapid Bioassessment Protocols for Use in Streams and Wadeable Rivers*. The protocol includes a stream habitat assessment and benthic macroinvertebrate sampling, identification, and analysis.

Each annual report shall include a summary of the monitoring results, analyses, and an interpretation of that data with respect to long-term patterns/trends.

Taxa Richness

Taxa Richness is the number of different taxa represented in an ecological community. Taxa Richness is simply a count of the taxa, and it does not take into account the relative abundances of each taxa. Taxa Richness for the Spring 2024 sampling year was lower than that of the previous years' data. Taxa Richness is expected to decrease with increasing perturbation.

EPT Index

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EPT Index is a subset of the above Richness measure. It is the number of taxa in the insect orders Ephemeroptera, Plecoptera, and Trichoptera, which are generally more environmentally sensitive. EPT Index was significantly lower across all sites for the Spring 2024 sampling period. EPT Index is expected to decrease with increasing perturbation.

Dominant Taxon

Dominant Taxon measures the percent abundance of individuals in the single most abundant taxon. This metric was higher for 3 of the 5 sites for the Spring 2024 sampling period. Dominant Taxon is expected to increase with increasing perturbation.

Hilsenhoff Biotic Index

The Hilsenhoff Biotic Index (HBI) estimates the overall tolerance of the community in a sampling area, weighted by the relative abundance of each taxonomic group. Organisms are assigned a tolerance number from 0 to 10 pertaining to the group's known sensitivity to organic pollutants - 0 being most sensitive, 10 being most tolerant. HBI values range from 0 to 10 as well. Low HBI values reflect a higher abundance of sensitive groups, thus a lower level of pollution. This measurement has remained fairly consistent at all sites throughout the duration of the monitoring.

% Gatherers

This measures the percent abundance of individuals in the sample whose primary functional mechanism for obtaining food (functional feeding group (FFG)) is to collect/gather depositional organic matter. Although generally within the range of previously recorded data, this percentage metric decreased across all sites for the Spring 2024 sampling period. This percentage is expected to decrease with increasing perturbation for the stream.

% Predators

This measures the percent abundance of individuals in the sample whose primary functional mechanism for obtaining food (FFG) is to attack prey and ingest whole organisms or their parts. This measurement decreased slightly across all sites for the Spring 2024 sampling period. Consistent values for this metric indicate a stable system and source of lower trophic level organisms able to support a healthy population of higher trophic level organisms.

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% Scrapers

This measures the percent abundance of individuals in the sample whose primary functional mechanism for obtaining food (FFG) is to graze on substrate or periphyton-attached algae and associated material. This percentage metric remained fairly consistent across all sites in comparison to previous sampling events. This metric is expected to decrease with increasing perturbation.

Biological Condition Index

The integrity of the Access Database used to calculate prior year's metric scores was compromised prior to the publishing of the 2016 Annual Report. Therefore, it is difficult to compare this year's Biological Condition Index data with prior years' data, and long term trends cannot be easily determined. This metric decreased substantially across all sites for the Spring 2024 sampling period. Inconsistency in the Index may indicate the stream has the potential to support a substantial biological community, however habitat is not completely stable. Hungary Run was recently restored and is actively maturing which should result in more habitat stability over time.

Habitat Suitability Index

Habitat Suitability Index assesses the relative quality of each sites' habitat based on a local reference reach. All streams except for Broadwater Creek had minor downward trends in their Habitat Suitability Index. This is likely insignificant and will be watched closely in subsequent years.

Henrico County 2024 Bioassessment Metrics

Spring 2024 Bioassessment	Cornelius Creek	Stony Run	Broadwater Creek	Hungary Creek	Upham Brook	Reference Reach
Taxa Richness	14	14	12	10	11	49
EPT Index	2	2	1	2	2	8
% Dominant Taxon	32.20	48.20	39.80	58.00	56.20	14.47
HBI	3.97	5.69	4.65	4.66	4.4	5.52
% Gatherers	29.31	14.40	1.08	10.89	8.15	37.82
% Predators	14.81	5.82	6.78	1.17	2.25	10.77
% Scrapers	1.83	18.01	38.48	7.00	18.54	14.38

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Henrico County 2024 Bioassessment Metric Scores

Spring Bioassessments	Cornelius Creek	Stony Run	Broadwater Creek	Hungary Creek	Upham Brook	Reference Reach
Taxa Richness	33	33	28	23	26	114
EPT Index	18	18	9	18	18	73
% Dominant Taxon	80	61	71	49	52	101
HBI	89	63	79	79	82	66
% Gatherers	77	38	3	29	21	100
% Predators	123	49	57	10	19	90
% Scrapers	4	37	78	14	38	29
Total:	60	43	46	32	37	82
% Comparability w/ Reference Reach:	74	52	57	39	45	
Biological Condition:	Slightly Impaired	Slightly Impaired	Slightly Impaired	Moderately Impaired	Moderately Impaired	

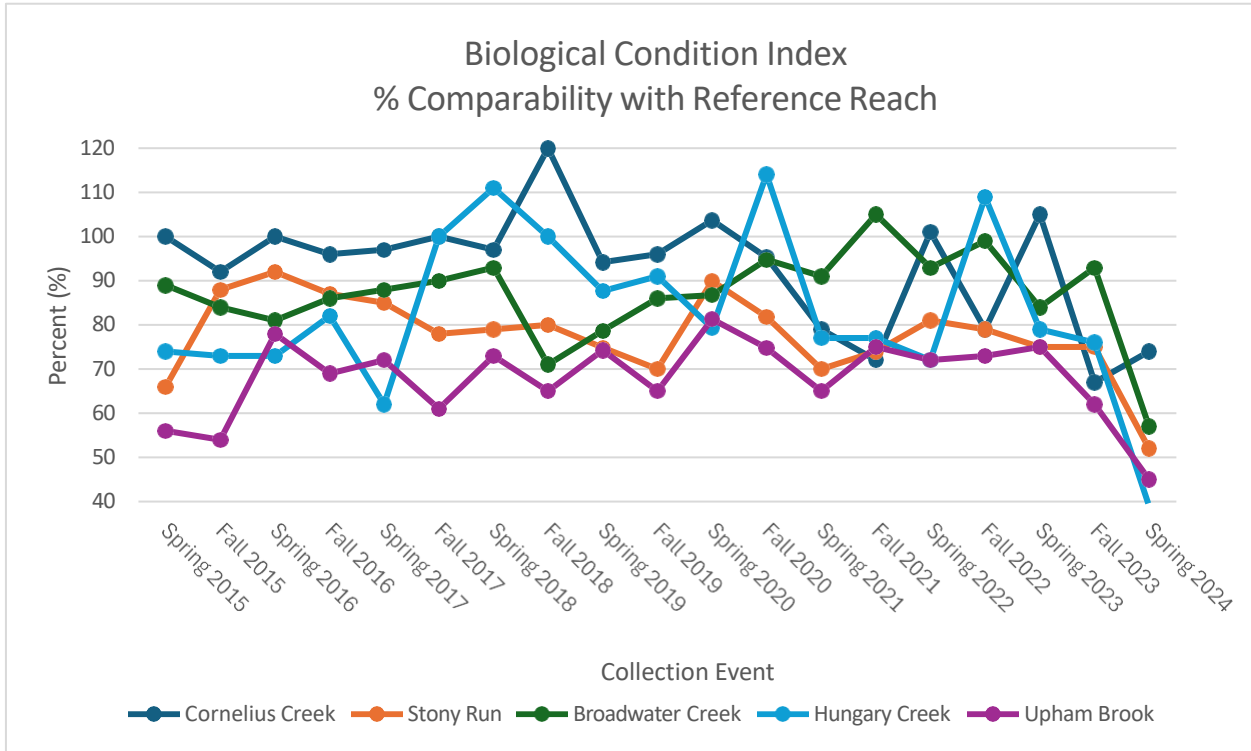
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**Table Spring 2024
Summary of Stream Habitat Assessment Results**

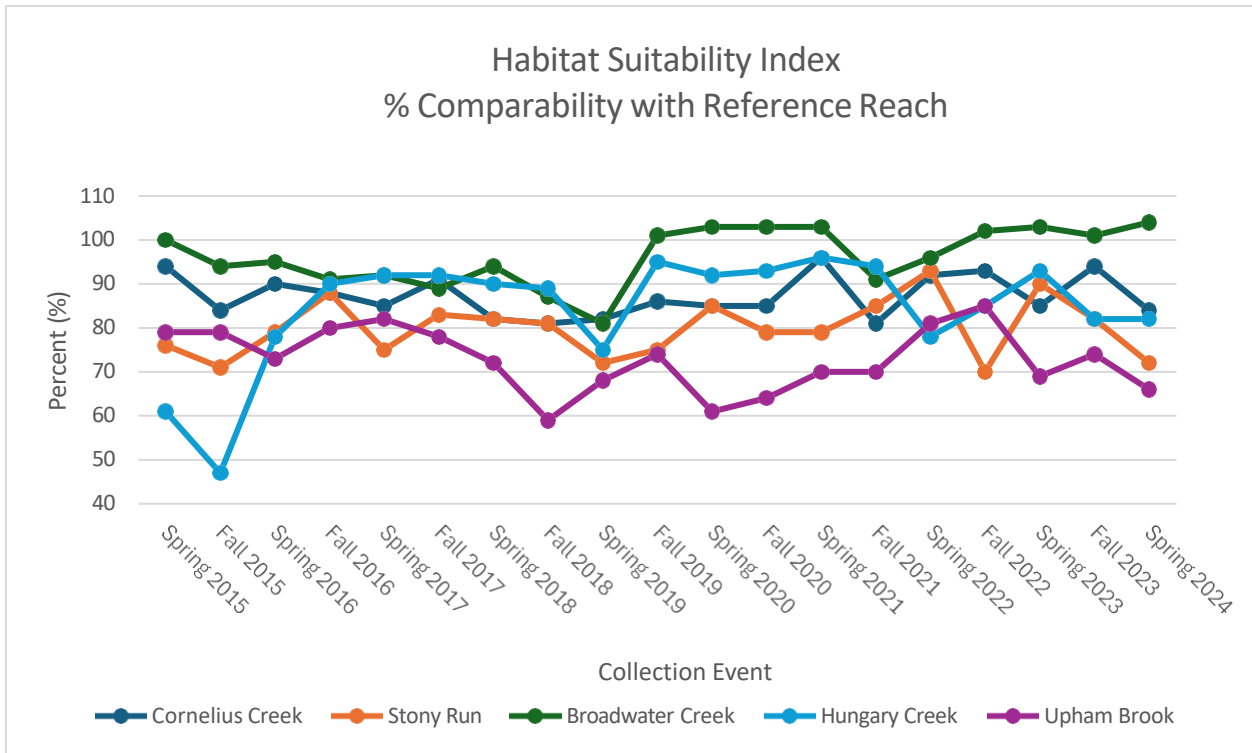
**Henrico County Stream Bioassessment Program
05/01/2024 through 06/01/2024**

	Scoring Range		Reference							
	Poor to Optimal	Hnr2001Lo	CRC07.S01	DSR04.S01						
<u>Substrate and Instream Cover</u>										
Epifaunal substrate/available cover	0-20	17	13	13	13	16	10	11		
Pool substrate characterization	0-20	16	7	4	4	18	10	12		
Pool variability	0-20	17	14	8	8	18	10	7		
<u>Channel Morphology</u>										
Sediment deposition	0-20	14	17	17	17	17	14	9		
Channel flow status	0-20	16	13	15	15	15	18	15		
Channel alteration	0-20	18	17	14	14	20	16	7		
Channel sinuosity	0-20	15.5	12	11	11	13	11	5		
<u>Riparian and Bank Structure</u>										
Bank stability	0-10	8	3	6	6	10	6	9		
Bank stability	0-10	8.5	4	4	4	9	6	8		
Bank vegetation protection	0-10	7	9	8	8	10	8	6		
Bank vegetation protection	0-10	8	9	8	8	9	8	9		
Riparian vegetative zone width	0-10	10	10	4	4	8	9	3		
Riparian vegetative zone width	0-10	10	10	7	7	9	9	8		
Total Score		165	138	119	119	172	135	109		
Percent of Reference Site		84	84	72	72	104	82	66		
Resulting Habitat Suitability		Supporting	Supporting	Partially S.	Partially S.	Comparable	Supporting	Partially S.		

Habitat Criteria
 >90% = Comparable to reference
 75-89 = Supporting
 60-74 = Partially supporting
 <59 = non-supporting

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PART I.C.2 MONITORING REQUIREMENTS IN-STREAM MONITORING

PERMIT LANGUAGE

The permittee shall continue to implement an in-stream monitoring program to evaluate the condition of select streams within Henrico County as follows:

- a) Five (5) stream sites within the County shall be selected for monitoring during the term of this permit.
- b) Monitoring shall be conducted once per two months between January 1st and December 31st at each monitoring location.
- c) Monitoring shall be performed for the following parameters:
 - 1) pH
 - 2) Dissolved Oxygen
 - 3) Temperature
 - 4) Total Suspended Solids
 - 5) Ammonia as Nitrogen
 - 6) Nitrate plus Nitrite Nitrogen
 - 7) Total Kjeldahl Nitrogen
 - 8) Total Nitrogen (calculated)
 - 9) Dissolved Phosphorus
 - 10) Total Phosphorus
 - 11) *Escherichia coli*
- d) Monitoring for the parameters listed in Part I.C.2.c) shall be in accordance with Part III.A. of this state permit.
- e) The permittee may replace a sampling location with a new proposed location after 15 samples are collected and analyzed. Written notification of the monitoring plan revisions shall be given to the Department in writing and shall include a statistical analysis of the monitoring results, conclusions regarding the data, the proposed new monitoring location, and the reasoning for site location choice.

HENRICO COUNTY MS4 PROGRAM PLAN

SPECIFIC REPORTING REQUIREMENTS

- The initial annual report shall include the list of sites to be monitored during the term of the state permit and monitoring protocols.
- Each annual report shall include a summary of the monitoring results and analyses and an interpretation of that data with respect to long-term patterns/trends.

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.C.2 of the MS4 Permit are assigned to the following Departments / Divisions of the County:

Public Works (DPW)

DPW will ensure that instream monitoring is conducted at each of the five identified stream sites once every two months **between January 1 and December 31** each year.

DPW will include a summary of the monitoring conducted during the permit year in the annual reports due **October 1** each year, including monitoring results, analyses, and an interpretation of the data with respect to long-term patterns / trends.

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.C.2

MONITORING REQUIREMENTS

IN-STREAM MONITORING

The initial annual report shall include the list of sites to be monitored during the term of the state permit and monitoring protocols.

Biological Monitoring Sites

Site	River Basin
Stoney Run	James River
Hungary Creek	Chickahominy River
Upham Brook	Chickahominy River
Cornelius Creek	James River
Broadwater Creek	Chickahominy River

DPW selected the stream sites based on several factors, including:

- the existence of current baseline data as a result of monitoring efforts conducted as a result of the previous permit,
- the goal to gather baseline data prior to conducting future stormwater retrofit projects,
- the goal to gather baseline data prior to anticipated intense development, and
- the goal to gather data in both the James River and Chickahominy River basins

The paragraphs below describe the Standard Operating Procedure (SOP) used to collect, preserve, measure, and analyze water quality at the in-stream monitoring sites. It describes the general stream monitoring procedures used for run preparation, sample collection, measurement, processing, preservation, and transport. The standard set of samples collected, measured, or processed include: pH, dissolved oxygen, temperature, total suspended solids, ammonia as nitrogen, nitrate plus nitrite nitrogen, total kjeldahl nitrogen, total nitrogen (calculated), dissolved phosphorus, total phosphorus, and Escherichia coli. Sites will be monitored every other month.

HENRICO COUNTY MS4 PROGRAM PLAN

DPW will ensure that instream monitoring is performed for the parameters specified in part I.C.2.c and will be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the U.S. Environmental Protection Agency.

Of the parameters to be monitored, pH, Dissolved Oxygen, and Temperature will be measured in the field using a YSI Pro DSS handheld probe. The YSI Pro DSS will be calibrated for pH and Dissolved Oxygen in the laboratory prior to sampling events.

The remainder of the parameters will be analyzed by an accredited commercial laboratory. Samples will be taken in the field by County staff in accordance with EPA-approved procedures and immediately transported to the laboratory for analysis.

The basic method used to collect samples is the hand dip method and to perform in-situ measurements with available hand-held meters. Put on high-visibility safety vests, turn on emergency flashers and amber strobe beacon lights, if available.

Carry gear (e.g., YSI Pro DSS meter and sample bottles) to a well-mixed location on the stream where representative stream samples may be collected.

Turn on the YSO Pro DSS and allow it to equilibrate. The samples can be taken from the stream bank or from the middle of the channel. If measured from the middle of the channel, stand out of the way and be very still making sure not to disturb the water column.

Submerge the YSI Pro DSS in the stream channel. Allow it to equilibrate for several minutes. If the water flow is slow, the DO meter probe should be slowly moved around in the water column during this time. Record the temperature of the water in Celsius and Fahrenheit. Record the DO measurement in mg/l and the pH measurement.

Remove the probe from the water and secure it within the instrument to protect it from damage.

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HENRICO COUNTY MS4 PROGRAM PLAN

Hold the base of a sample bottle with one hand and remove the bottle cap. Then invert the bottle, reach upstream, and plunge the bottle into the water about 15 cm (6 inches), and then tip the bottle mouth up toward the water surface. Allow the bottle to fill, take it out of the water, replace the cap, and repeat the bottle filling process to fill the remaining sample bottles.

Record the air temperature, barometric pressure, stream stage height, and any other measurements on the Field Data Report Form. Also note any weather or unusual site specific observations. Spend some time on this as the narrative observations can help explain any anomalous data. Also note missing data or equipment issues.

Label all sample bottles with the appropriate sample tags, double check the station ID on the tag and place them on ice in a cooler.

Repeat the Sample collection and processing procedures at all sampling stations.

Deliver the cooler along with the completed Chain of Custody form back to the commercial laboratory before 5pm.

At the end of the day calibrate the pH meter.

Each annual report shall include a summary of the monitoring results and analyses and an interpretation of that data with respect to long-term patterns/trends.

The tables below include the data collected during the 2024 reporting year.

HENRICO COUNTY MS4 PROGRAM PLAN

Cornelius Creek	1/24/2024	3/27/2024	5/28/2024
pH	7.01	6.51	6.7
Dissolved Oxygen (mg/l)	11.85	11.04	8.62
Temperature (°C)	7	10.4	21
Total Suspended Solids (mg/l)	4.1	6.6	2.1
Ammonia as Nitrogen (mg/l)	<0.2	<0.2	<0.2
Nitrate plus Nitrite Nitrogen (mg/l)	0.79	1.02	1.09
Total Kjeldahl Nitrogen (mg/l)	<0.5	<0.5	<0.5
Total Nitrogen (calculated) (mg/l)	1.08	1.4	1.59
Dissolved Phosphorus (mg/l)	0.05	<0.02	<0.02
Total Phosphorus (mg/l)	<0.1	<0.1	<0.1
Escherichia coli (CFU/100ml)	74	1200	-
Air Temperature (°F)	67	51	84

Broadwater Creek	1/24/2024	3/27/2024	5/28/2024
pH	6.03	5.88	6.21
Dissolved Oxygen (mg/l)	10.05	9.65	7.73
Temperature (°C)	10.1	10.6	20.6
Total Suspended Solids (mg/l)	1.6	10	16
Ammonia as Nitrogen (mg/l)	<0.2	<0.2	<0.2
Nitrate plus Nitrite Nitrogen (mg/l)	0.84	0.64	0.3
Total Kjeldahl Nitrogen (mg/l)	<0.5	<0.5	0.81
Total Nitrogen (calculated) (mg/l)	1.14	1.12	1.12
Dissolved Phosphorus (mg/l)	0.07	<0.02	0.04
Total Phosphorus (mg/l)	<0.1	<0.1	<0.1
Escherichia coli (CFU/100ml)	26	91	-
Air Temperature (°F)	67	50	82

**HENRICO COUNTY MS4 PROGRAM PLAN
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HENRICO COUNTY MS4 PROGRAM PLAN

Upham Brook	1/24/2024	3/27/2024	5/28/2024
pH	7.21	6.91	6.79
Dissolved Oxygen (mg/l)	12.44	10.7	5.87
Temperature (°C)	4.6	10.6	21.9
Total Suspended Solids (mg/l)	1.1	4.4	3.3
Ammonia as Nitrogen (mg/l)	<0.2	<0.2	<0.2
Nitrate plus Nitrite Nitrogen (mg/l)	1.72	0.66	0.36
Total Kjeldahl Nitrogen (mg/l)	<0.5	<0.5	0.55
Total Nitrogen (calculated) (mg/l)	1.96	1.04	0.91
Dissolved Phosphorus (mg/l)	0.07	<0.02	0.05
Total Phosphorus (mg/l)	<0.1	<0.1	<0.1
Escherichia coli (CFU/100ml)	82	155	-
Air Temperature (°F)	50	47	78

Stony Run	1/24/2024	3/27/2024	5/28/2024
pH	7.14	6.83	6.95
Dissolved Oxygen (mg/l)	12.09	10.45	7.55
Temperature (°C)	7.3	11.1	20.7
Total Suspended Solids (mg/l)	2.5	1.5	2.3
Ammonia as Nitrogen (mg/l)	<0.2	<0.2	<0.2
Nitrate plus Nitrite Nitrogen (mg/l)	0.7	0.49	0.47
Total Kjeldahl Nitrogen (mg/l)	<0.5	<0.5	<0.5
Total Nitrogen (calculated) (mg/l)	1.04	0.88	0.86
Dissolved Phosphorus (mg/l)	0.08	0.08	0.04
Total Phosphorus (mg/l)	<0.1	<0.1	<0.1
Escherichia coli (CFU/100ml)	121	46	-
Air Temperature (°F)	61	47	75

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PART I.C.2
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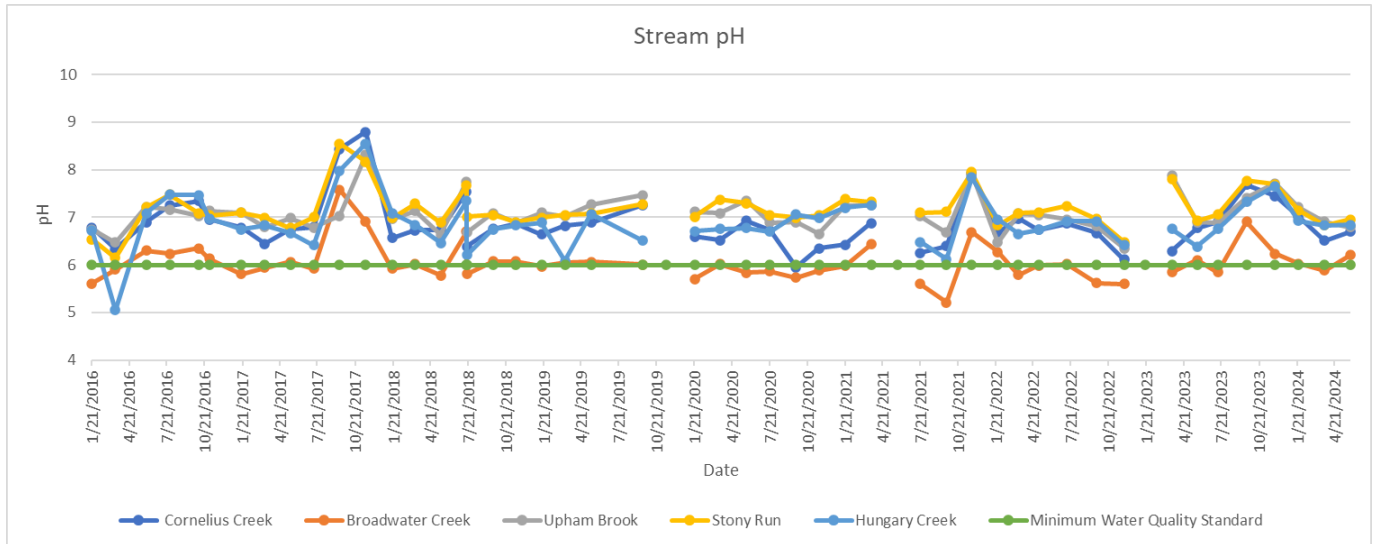
Hungary Creek	1/24/2024	3/27/2024	5/28/2024
pH	6.93	6.83	6.84
Dissolved Oxygen (mg/l)	11.02	10.13	6.97
Temperature (°C)	9.9	10.9	21
Total Suspended Solids (mg/l)	3.96	4.6	4.8
Ammonia as Nitrogen (mg/l)	<0.2	<0.2	<0.2
Nitrate plus Nitrite Nitrogen (mg/l)	0.58	0.48	0.32
Total Kjeldahl Nitrogen (mg/l)	<0.5	<0.5	<0.5
Total Nitrogen (calculated) (mg/l)	0.96	0.87	0.74
Dissolved Phosphorus (mg/l)	0.09	0.02	0.04
Total Phosphorus (mg/l)	<0.1	<0.1	<0.1
Escherichia coli (CFU/100ml)	548	921	-
Air Temperature (°F)	62	47	77

Each data point on the following graphs represent the data collected during the permits reporting period. Where available, the appropriate Water Quality Standard is also included on the graph.

HENRICO COUNTY MS4 PROGRAM PLAN

Stream pH

Stream pH has been consistent throughout the duration of the monitoring period except for the fall of 2017 and 2019 where a spike in pH was observed across all sites. This could be due to a faulty sensor.

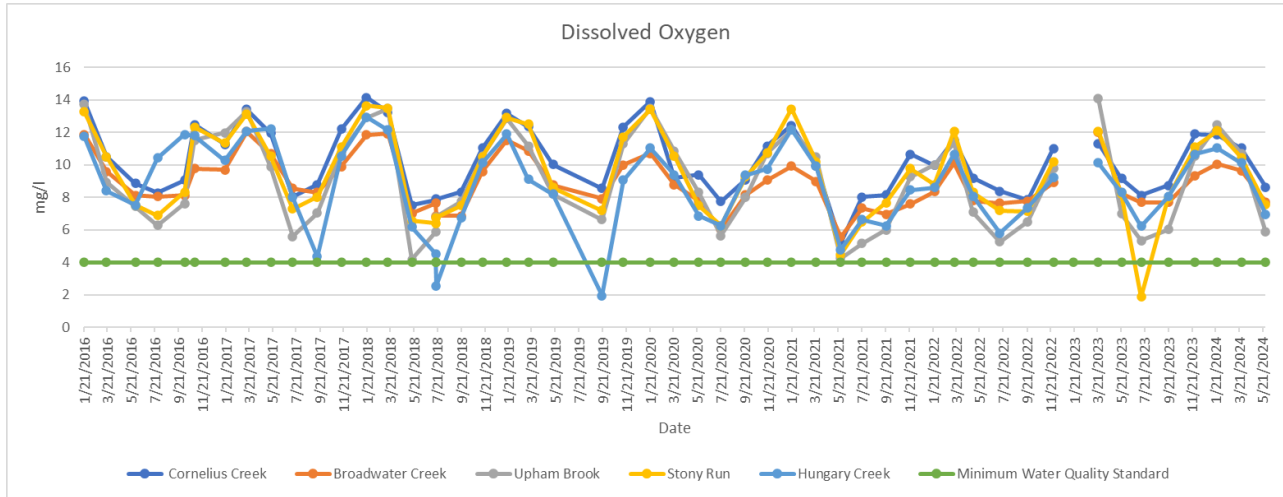


Note: Data unavailable for November 2019, May 2021, and January 2023 sampling event.

HENRICO COUNTY MS4 PROGRAM PLAN

Dissolved Oxygen

Aside from season variability noted across all sites, no discernable trend has been observed.

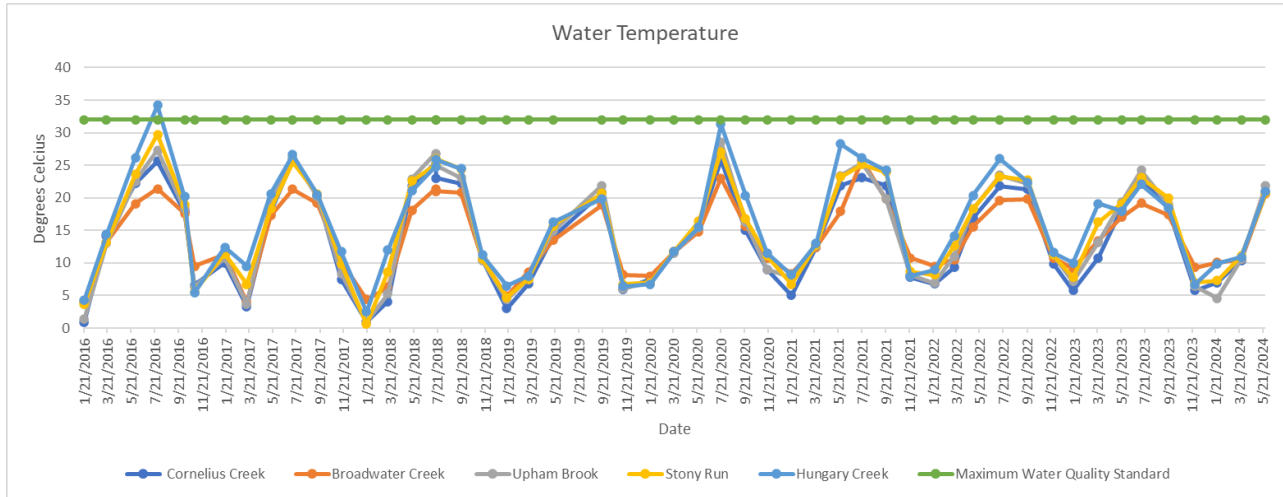


Note: Data unavailable for January 2023 sampling event.

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Water Temperature

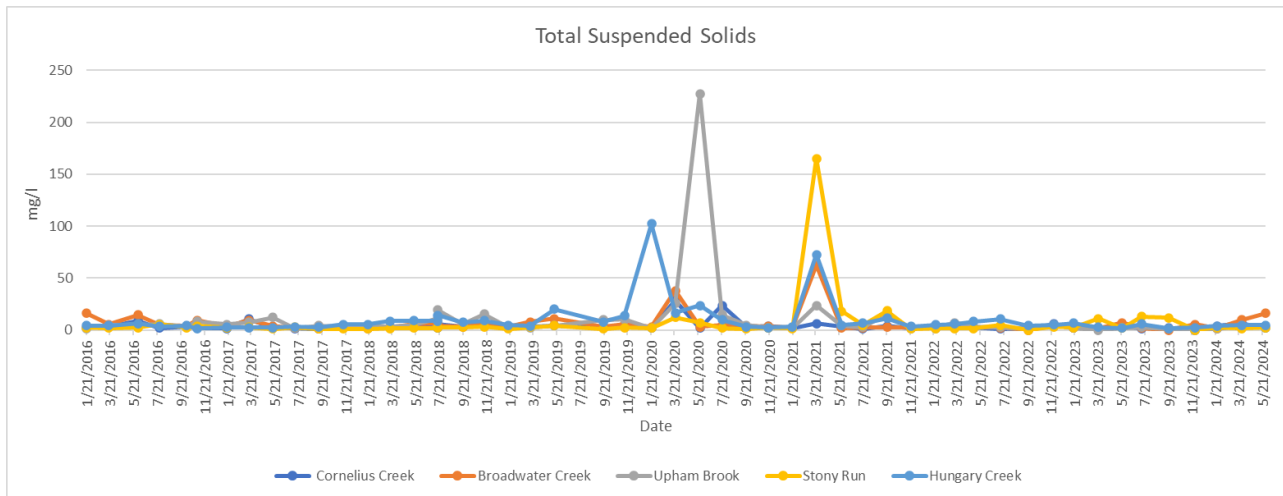
Aside from season variability noted across all sites, no discernable trend has been observed.



HENRICO COUNTY MS4 PROGRAM PLAN

Total Suspended Solids (TSS)

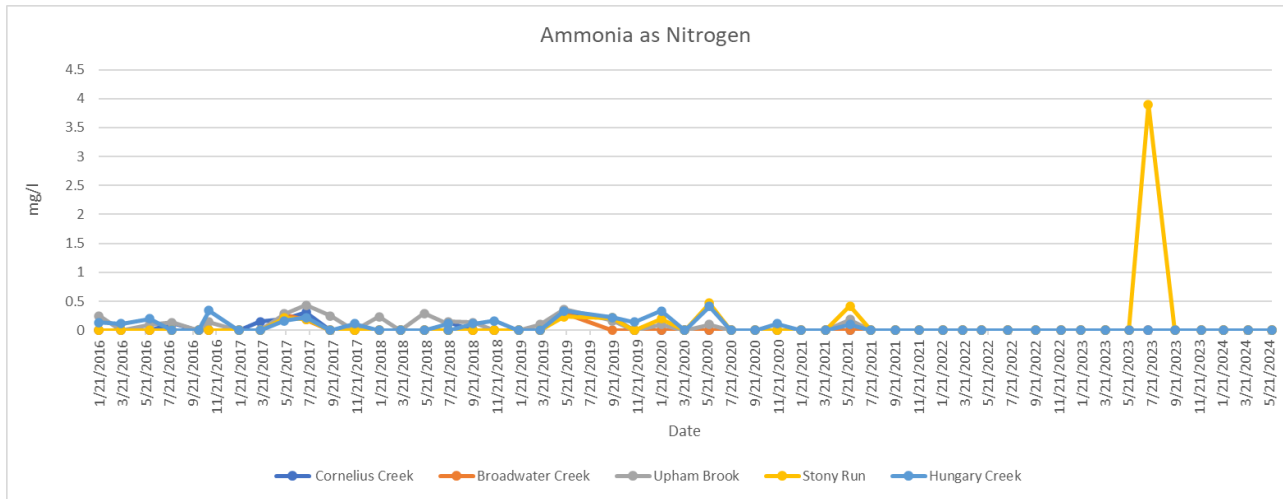
TSS has fluctuated between 0-50 mg/l across all sites throughout the duration of the monitoring, with the exception of a spike occurring at Hungary Creek and Upham Brook during the 2020 monitoring year and a spike during the March 2021 sampling event. These spikes appear to be correlated with significant precipitation events occurring recently before water samples were taken. The stream reaches located within highly urbanized environments could result in more intense flashy events causing upstream erosion and temporarily affecting stream turbidity. TSS spikes were only noted on singular collection events, and no long-term trends were identified.



HENRICO COUNTY MS4 PROGRAM PLAN

Ammonia as Nitrogen

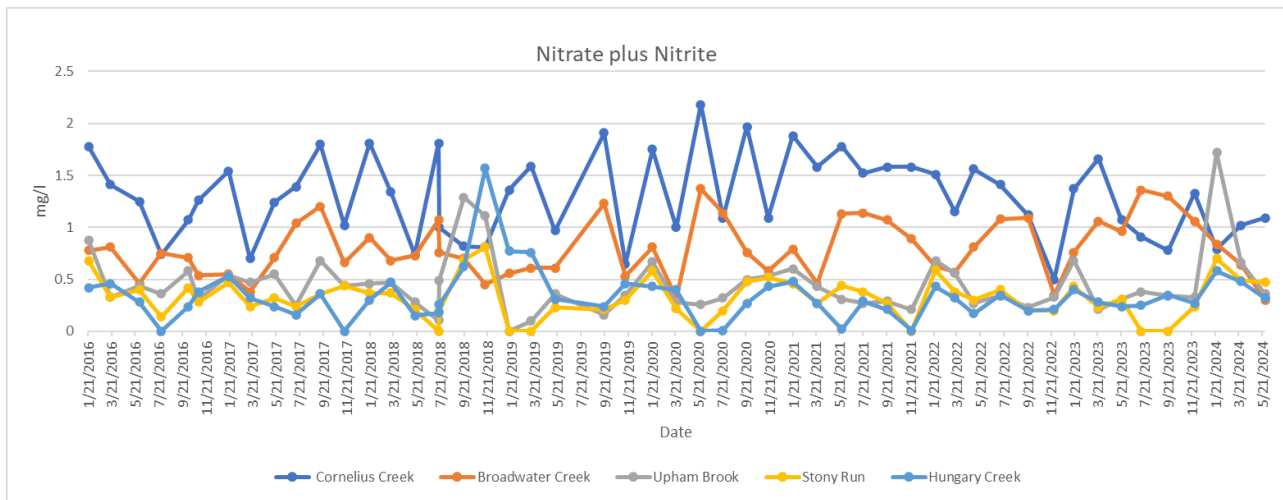
Ammonia as nitrogen has been variable across sites, but typically remaining within a range from 0 to 0.5 mg/l excluding a significant spike in July 2023 at Stony Run. This parameter has shown spikes through the summer months of some years. Seasonal spikes in ammonia could result from lower flow conditions experienced in the summer. All sites had below qualitative level for the 2022 and 2023 sampling events, excluding the spike in July 2023 at Stony Run.



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Nitrate plus Nitrite

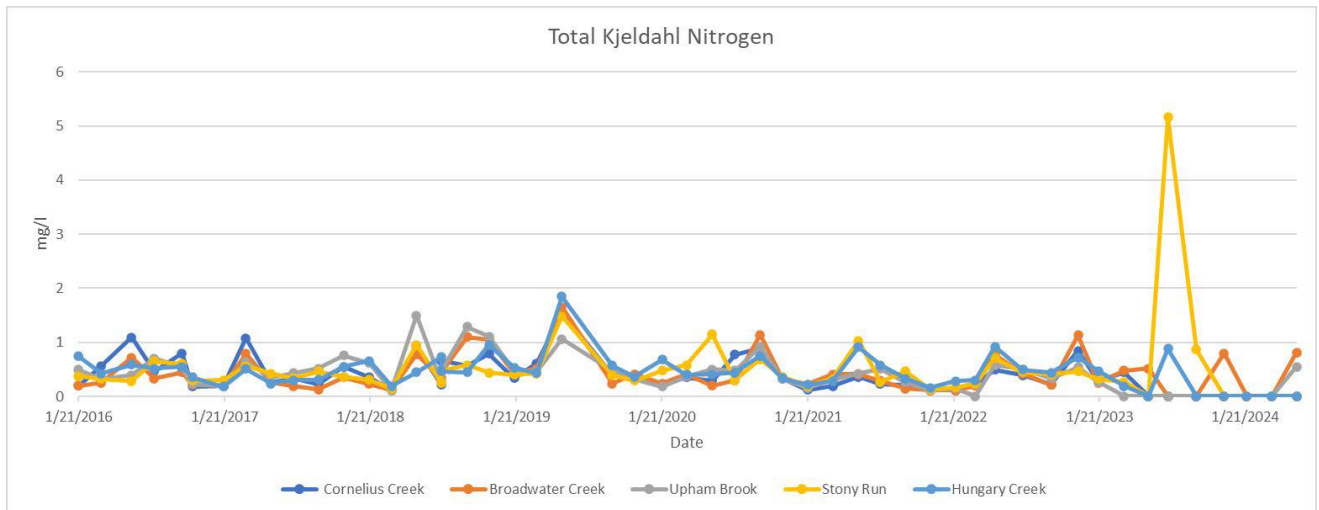
This parameter appears to fluctuate over time; however, it remains within a consistent range at each site. Cornelius Creek has notably higher values of Nitrate plus Nitrite. The watershed surrounding this reach of Cornelius Creek is dominated by agricultural lands, likely contributing a higher source of nitrogen fertilizer run-off.



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Total Kjeldahl Nitrogen

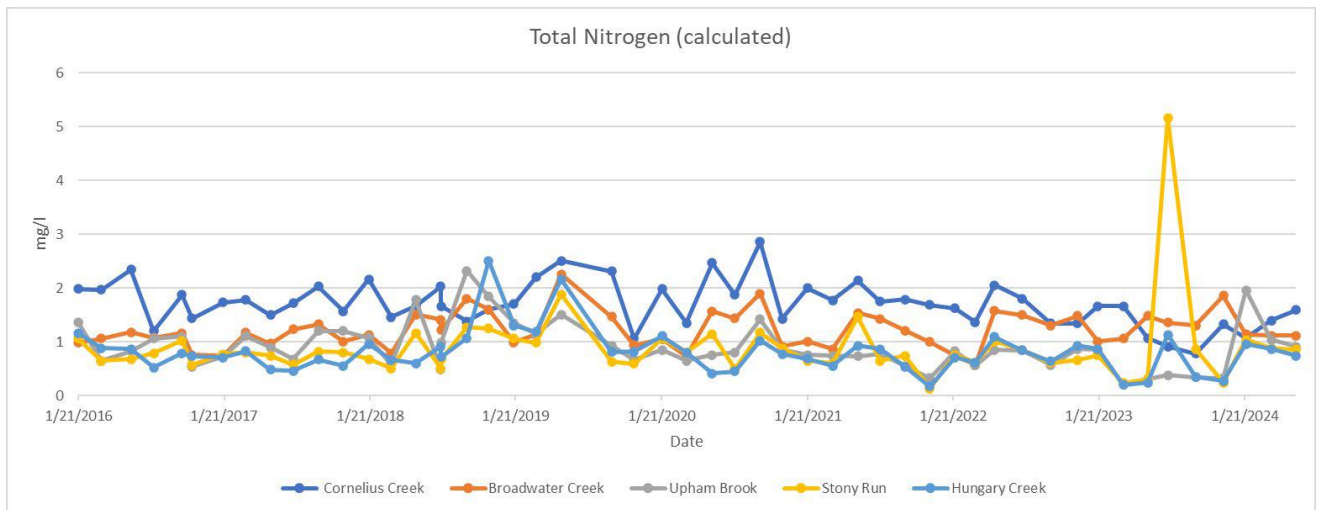
Total Kjeldahl Nitrogen appears to spike in the spring. This spike could result from the post-winter breakdown of organic material. This trend remained consistent during the 2022 sampling year. A significant spike was observed in July 2023 at Stony Run.



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Total Nitrogen

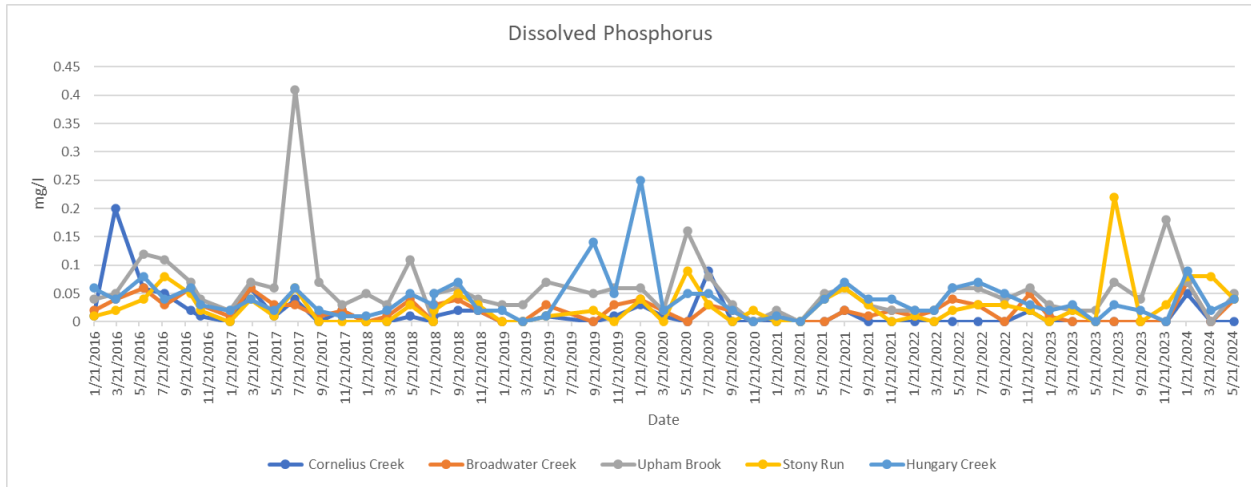
This parameter appears to fluctuate over time; however, it remains within a consistent range at each site. Cornelius Creek has recorded notably higher values of Total Nitrogen over the duration of the monitoring. The watershed surrounding this reach of Cornelius Creek is dominated by agricultural lands, likely contributing to a higher source of nitrogen fertilizer run-off. A significant spike was observed in July 2023 at Stony Run.



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Dissolved Phosphorus

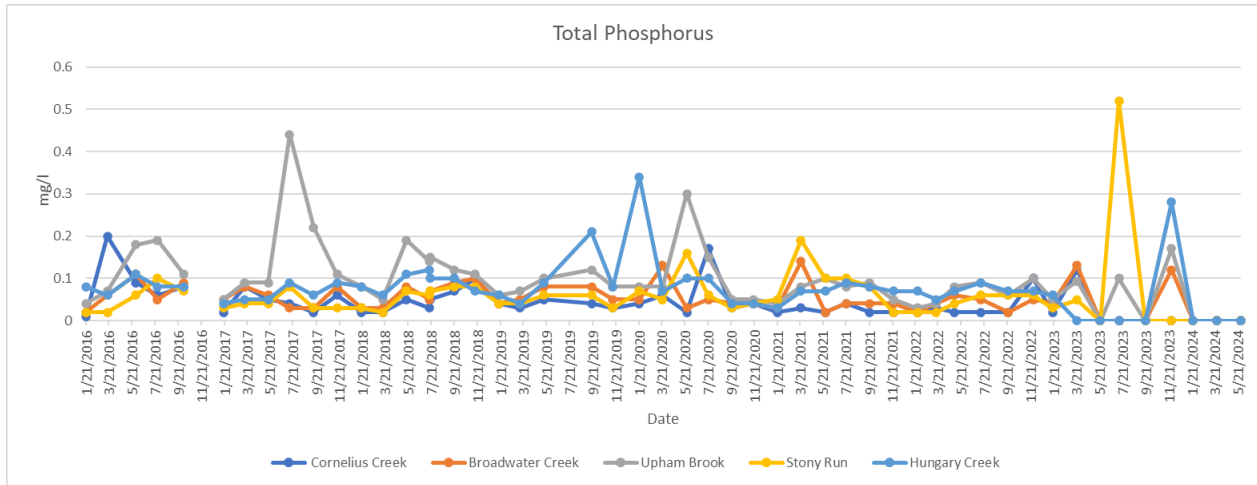
With the exception of a few spikes observed throughout the monitoring period, Dissolved Phosphorus has been consistent across time and sites. No discernable long-term trends have been identified.



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Total Phosphorus

With the exception of a few spikes observed throughout the monitoring period, Total Phosphorus has been consistent across time and sites. No discernable long-term trends have been identified.

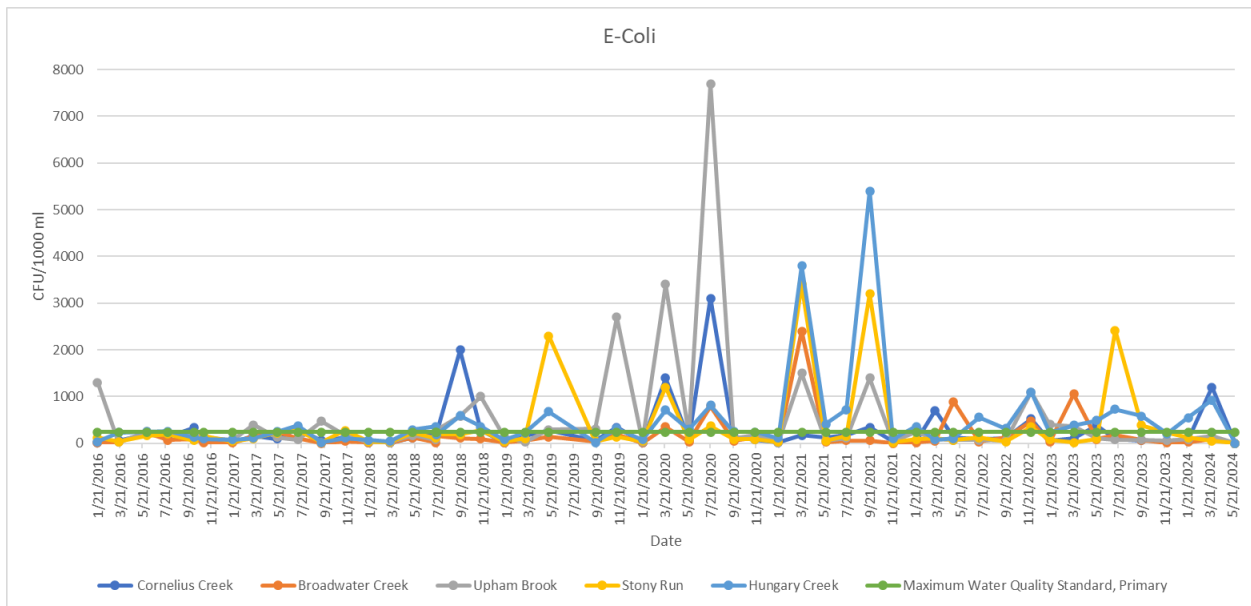


Note: Data unavailable for November 2016 sampling event.

HENRICO COUNTY MS4 PROGRAM PLAN

e-Coli

All sites have exhibited at least one spike in e-Coli over the monitoring period. No discernable trend has been observed across sites or over time. More data will be needed to identify any emerging long-term trends.



Note: Data unavailable for May 2024 sampling date.

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PART I.D.1

TMDL ACTION PLAN AND IMPLEMENTATION CHESAPEAKE BAY SPECIAL CONDITION

PERMIT LANGUAGE

The Commonwealth in its Phase I, Phase II and Phase III Chesapeake Bay TMDL Watershed Implementation Plans (WIP) committed to a phased approach for MS4s permittees to implement necessary reductions. This state permit requires a cumulative 40% of the L2 scoping run reductions by June 30, 2026, and 100% of the L2 scoping run reductions by June 30, 2028. Conditions of future permits will be consistent with the TMDL or WIP. conditions in place at the time of permit issuance.

Definitions The following definitions apply to Part I.D.1

- 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.
- 3) "Pollutants of concern" or "POC" means total nitrogen and total phosphorus.

Reduction Requirements – Existing Development: Following a phased approach, the permittee shall reduce the load of total nitrogen and total phosphorous from existing sources within the MS4 service area by at least 40% of the Level 2 Scoping Run reductions by June 30, 2026, and 100% of the reductions by June 30, 2028. The 40% reduction is the sum of:

- 4) the first phase of reduction of 5.0% percent of the L2 Scoping Run Reductions based on the lands located within the MS4 service area as required by June 30, 2018;
- 5) the second phase reduction of at least 35% of the L2 Scoping Run based on lands within the MS4 service area required by June 30, 2026; and
- 6) the reduction of at least 40% of the L2 Scoping Run which shall only apply to the additional lands that were added to the MS4 service area since June 30, 2018, as required by June 30, 2026.

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As part of this permit's phased approach, the permittee shall reduce the load of total nitrogen and total phosphorus from existing developed lands served by the MS4 by 100% of the Level 2 Scoping Run Reductions by June 30, 2028. The required reduction shall be calculated using Table 1a for reductions by June 30, 2026 and Table 1b for reductions by June 30, 2028 included herein

HENRICO COUNTY MS4 PROGRAM PLAN

**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.D.1**

HENRICO COUNTY MS4 PROGRAM PLAN

Table 1a

Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the James River, Lynnhaven and Little Creek Basin Through (June 30, 2026)

<u>Pollutant</u>	<u>A</u> <u>Loading rate</u> <u>(lbs/ac/yr)¹</u>	<u>B</u> <u>Existing</u> <u>developed</u> <u>lands as of</u> <u>6/30/09</u> <u>served</u> <u>by the MS4</u> <u>within the</u> <u>regulated</u> <u>areas</u> <u>(acres)²</u>	<u>C</u> <u>Load (lbs/yr)³</u>	<u>D</u> <u>Percentage</u> <u>of MS4</u> <u>required</u> <u>Chesapeake</u> <u>Bay total L2</u> <u>loading</u> <u>reduction</u>	<u>E</u> <u>Percentage</u> <u>of L2</u> <u>required</u> <u>reduction by</u> <u>June 30,</u> <u>2026</u>	<u>F</u> <u>40%</u> <u>cumulative</u> <u>reduction</u> <u>required</u> <u>by June</u> <u>30, 2026</u> <u>(lbs/yr)⁴</u>	<u>G</u> <u>Sum of</u> <u>cumulative</u> <u>reduction</u> <u>(lb/yr)⁵</u>
Nitrogen: Regulated Urban Impervious	9.39	N/A	N/A	9%	40%	N/A	N/A
Nitrogen: Regulated Urban Pervious	6.99	N/A	N/A	6%	40%	N/A	N/A
Phosphorus: Regulated urban Impervious	1.76	N/A	N/A	16%	40%	N/A	N/A
Phosphorus: Regulated Urban Pervious	0.5	N/A	N/A	7.25%	40%	N/A	N/A

HENRICO COUNTY MS4 PROGRAM PLAN

¹Edge of stream loading rate based on the Chesapeake Bay Watershed Model 5.3.2

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.

³Column C = Column A x Column B

⁴Column F = Column C x Column D x Column E.

⁵Column G = The sum of the subsource cumulative reduction required by June 30, 2026 (lbs/yr) as calculated in Column F

HENRICO COUNTY MS4 PROGRAM PLAN

Table 1b

Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the James River, Lynnhaven and Little Creek Basins Through (June 30, 2028)

<u>Pollutant</u>	<u>A</u> <u>Loading rate</u> <u>(lbs/ac/yr)¹</u>	<u>B</u> <u>Existing</u> <u>developed</u> <u>lands as of</u> <u>6/30/09</u> <u>Served by</u> <u>the MS4</u> <u>within the</u> <u>regulated</u> <u>areas</u> <u>(acres)²</u>	<u>C</u> <u>Load (lbs/yr)³</u>	<u>D</u> <u>Percentage</u> <u>of MS4</u> <u>required</u> <u>Chesapeake</u> <u>Bay total L2</u> <u>loading</u> <u>reduction</u>	<u>E</u> <u>Percentage</u> <u>of L2</u> <u>required</u> <u>reduction by</u> <u>June 30,</u> <u>2026</u>	<u>F</u> <u>40%</u> <u>cumulative</u> <u>reduction</u> <u>required</u> <u>by June</u> <u>30, 2026</u> <u>(lbs/yr)⁴</u>	<u>G</u> <u>Sum of</u> <u>cumulative</u> <u>reduction</u> <u>(lb/yr)⁵</u>
Nitrogen: Regulated Urban Impervious	9.39	N/A	N/A	<u>9%</u>	<u>100%</u>	N/A	N/A
Nitrogen: Regulated Urban Pervious	<u>6.99</u>	N/A	N/A	<u>6%</u>	<u>100%</u>	N/A	N/A
Phosphorus: Regulated urban Impervious	<u>1.76</u>	N/A	N/A	<u>16%</u>	<u>100%</u>	N/A	N/A
Phosphorus: Regulated Urban Pervious	<u>0.5</u>	N/A	N/A	<u>7.25%</u>	<u>100%</u>	N/A	N/A

HENRICO COUNTY MS4 PROGRAM PLAN

¹Edge of stream loading rate based on the Chesapeake Bay Watershed Model 5.3.2

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.

³Column C = Column A x Column B

⁴Column F = Column C x Column D x Column E.

⁵Column G = The sum of the subsource cumulative reduction required by June 30, 2026 (lbs/yr) as calculated in Column F.

HENRICO COUNTY MS4 PROGRAM PLAN

Required Reductions – New Development No later than the expiration date of this permit (January 15, 2029), the permittee shall offset 100% 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 and 9VAC25-870-93 et seq. if the following conditions apply:

- 7) The activity disturbed one acre or greater; and
- 8) The resulting total phosphorous load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition greater than 16% impervious cover.

The permittee shall utilize Table 2 included herein to develop the equivalent pollutant load for nitrogen for new sources meeting the requirements of this condition.

Required Reductions – Grandfathered Projects No later than the expiration date of this permit, the permittee shall offset 100% of the increased loads from projects grandfathered in accordance with 9VAC25- 870-48 that began construction after July 1, 2014, if the following conditions apply:

- 9) The activity disturbs one acre or greater; and
- 10) 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.

The permittee shall utilize Table 2 included herein to develop the equivalent pollutant load for nitrogen for grandfathered sources meeting the requirements of this condition.

Table 2: Ratio of Phosphorus Loading Rate to Nitrogen Loading Rates for Chesapeake Bay Basins
(Based on Chesapeake Bay Program Watershed Model Phase 5.3.2)

<u>Ratio of Phosphorus to Other POCs (Based on All Land Uses 2009 Progress Run)</u>	<u>Phosphorus Loading Rate (lbs/ac)</u>	<u>Nitrogen Loading Rate (lbs/ac/yr)</u>
James River Basin	1.0	5.2

- b) Reductions achieved in accordance with the Permit for Discharges of Stormwater from Municipal Separate Storm Sewer Systems effective April 01, 2015, shall be

HENRICO COUNTY MS4 PROGRAM PLAN

applied toward the total reduction requirements to demonstrate compliance with Part I.D.1.b), c) and d).

- c) Reductions required under Part I.D.1 b), c) and d) shall be achieved in each river basin in which the existing development, new development and grandfathered projects are located.
- d) Loading and reduction values greater than or equal to 10 pounds calculated in accordance with Part I.D.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.D.1.b), c) and d) shall be calculated and reported to two significant digits.
- e) Reductions required in Part I.D.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.D.1.i).
- f) The permittee may acquire and use total nitrogen and total phosphorous credits in accordance with §62.1- 44.19:21 of the Code of Virginia for purposes of compliance with the required reductions in Table 1 contained herein, 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;
 - 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;

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- 5) Total nitrogen and total phosphorous credits shall be either point source credits generated by point sources covered by the Watershed Permit for Total Nitrogen and Total Phosphorous 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 pursuant to §62.1-44.19:20 of the Code of Virginia.
- g) The permittee shall submit an updated Chesapeake Bay TMDL action plan for the cumulative 40% reductions required in Part I.D.1.b), c) and d) within 12 months of the permit effective date. The permittee shall submit an updated Chesapeake Bay TMDL action plan for the cumulative 100% reductions required in Part I.D.1.b), c) and d) by June 30, 2026. The action plans shall include the following information:
- 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 implemented, to meet the requirements of Parts I.D.1.b), c) and d) to include a review in the development of these actions;
 - 2) The load and cumulative reduction calculations for each river basin calculated in accordance with Parts I.D.1.b), c) and d);
 - 3) The total reductions achieved to date for each pollutant of concern in each river basin;
 - 4) A list of BMPs implemented to date to achieve reductions associated with the Chesapeake Bay TMDL including:
 - (a) The date of implementation; and
 - (b) The reductions achieved.
 - 5) The BMPs to be implemented by the permittee prior to the expiration date of this permit to meet the cumulative reductions calculated in Parts I.D.1.b), c) and d), including, as applicable:
 - (a) Type of BMP;
 - (b) Project name;

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- (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.D.1.g) for each pollutant of concern.
- 6) An estimate of the expected cost to implement the necessary reductions during the permit cycle; and
- 7) A summary of any comments received as a result of public participation required in Part I.D.1.k), the permittee's response, identification of any public meetings to address public concerns, and any revisions made to the Chesapeake Bay TMDL action plan as a result of public participation.
- h) Prior to submittal of the action plan required in Part I.D.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.
- i) As part of the development of the Chesapeake Bay TMDL action plan, the permittee may consider use of the following:
- 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; and
 - 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.

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- j) The permittee shall address any modification to the TMDL or watershed implementation plan that occurs during the term of this permit as a part of its permit reapplication as required in Part III.M of this permit.
- k) Chesapeake Bay TMDL action plan implementation. The permittee shall implement the TMDL action plan required in Part I.D.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.
- l) Specific Reporting Requirements. For each annual reporting period, the annual report shall include the following:
- 1) Any modifications to the Chesapeake Bay TMDL action plan made during the July 1 to June 30 reporting period.
 - 2) Documentation identifying which BMPs were completed within the current annual reporting period. The following information shall also be included:
 - (a) For BMPs used to meet the Chesapeake Bay TMDL requirements of Part I.D.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 Chesapeake Bay TMDL requirements of Part I.D.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 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.
 - 3) A list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part II and the estimated reduction of

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pollutants of concern achieved by each and reported in pounds per year.

- 4) If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions in Part I.D.1.b), c) or d), a statement that credits were acquired.
- 5) Documentation that sufficient control measures have been implemented (or documentation detailing that implementation will be complete by June 30, 2026, for the cumulative 40% reductions and June 30, 2028 for the cumulative 100% reductions) to meet the compliance targets identified in this section. If temporary credits or offsets have been purchased in order to meet the compliance targets, the list of temporary reductions utilized to meet the cumulative required reductions of L2 in this permit and a schedule of implementation to ensure permanent cumulative 40% and 100% reductions shall be provided.
- 6) Following notification from the department of the start date for the required electronic submission of Chesapeake Bay TMDL implementation annual status reports, as provided for in 9VAC25-31-1020, such forms and reports submitted after that date 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 and reports must be submitted electronically.

SPECIFIC REPORTING REQUIREMENTS

- Each annual report shall include any modifications to the Chesapeake Bay TMDL action plan made during the July 1 to June 30 reporting period.
- Each annual report shall include documentation identifying which BMPs were completed within the current annual reporting period. The following information shall also be included:
 - For BMPs used to meet the Chesapeake Bay TMDL requirements of Part I.D.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.

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- For retrofit projects used to meet the Chesapeake Bay TMDL requirements of Part I.D.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 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.
- A list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part II and the estimated reduction of pollutants of concern achieved by each and reported in pounds per year.
- If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions in Part I.D.1.b), c) or d), a statement that credits were acquired.
- Documentation that sufficient control measures have been implemented (or documentation detailing that implementation will be complete by June 30, 2026, for the cumulative 40% reductions and June 30, 2028 for the cumulative 100% reductions) to meet the compliance targets identified in this section. If temporary credits or offsets have been purchased in order to meet the compliance targets, the list of temporary reductions utilized to meet the cumulative required reductions of L2 in this permit and a schedule of implementation to ensure permanent cumulative 40% and 100% reductions shall be provided.
- Following notification from the department of the start date for the required electronic submission of Chesapeake Bay TMDL implementation annual status reports, as provided for in 9VAC25-31-1020, such forms and reports submitted after that date 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 and reports must be submitted electronically.

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MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.D.1 of the MS4 Permit are assigned to the following Departments / Divisions of the County:

Public Works (DPW)

No later than **January 15, 2025**, DPW will submit the approvable, phased Chesapeake Bay TMDL Action Plan to the Department of Environmental Quality for review and approval. DPW will implement the approved Chesapeake Bay TMDL Action Plan according to the schedule specified in the action plan and in accordance with the requirements specified in the MS4 Permit.

Each annual report, due **October 1**, shall include any modifications to the Chesapeake Bay TMDL action plan made during the July 1 to June 30 reporting period.

Each annual report, due **October 1**, shall include documentation identifying which BMPs were completed within the current annual reporting period. The documentation shall include the following information:

For BMPs used to meet the Chesapeake Bay TMDL requirements of Part I.D.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.

For retrofit projects used to meet the Chesapeake Bay TMDL requirements of Part I.D.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 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.

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Each annual report, due **October 1**, shall include a list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part II and the estimated reduction of pollutants of concern achieved by each and reported in pounds per year.

DPW will include a statement that credits were acquired each annual report, due **October 1**, if any credits were acquired during the reporting period to meet all or a portion of the required reductions in Part I.D.1.b), c) or d).

DPW will provide documentation that sufficient control measures have been implemented (or documentation detailing that implementation will be complete by June 30, 2026, for the cumulative 40% reductions and June 30, 2028 for the cumulative 100% reductions) to meet the compliance targets identified in this section. If temporary credits or offsets have been purchased in order to meet the compliance targets, the list of temporary reductions utilized to meet the cumulative required reductions of L2 in this permit and a schedule of implementation to ensure permanent cumulative 40% and 100% reductions shall be provided.

DPW will electronically submit Chesapeake Bay TMDL implementation annual status reports, following notification from DEQ, as provided for in 9VAC25-31-1020, and the forms and reports submitted after the start date will be in compliance with Part I.D.1.o)6 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 and reports must be submitted electronically.

DPW will follow a phased approach to reduce the load of total nitrogen and total phosphorous from existing sources within the MS4 service area by at least 40% of the Level 2 Scoping Run reductions by June 30, 2026, and 100% of the reductions by June 30, 2028. DPW will calculate the required reduction by using Table 1a for reductions by June 30, 2026 and Table 1b for reductions by June 30, 2028.

By **January 15, 2029**, DPW will offset 100% 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 and 9VAC25-870-93 et seq. if the activity disturbed one acre or greater and if the resulting total phosphorous load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition greater than 16% impervious cover. DPW will utilize Table 2 to develop the equivalent pollutant load for nitrogen for new sources meeting the requirements of this condition.

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By **January 15, 2029**, DPW will offset 100% of the increased loads from projects grandfathered in accordance with 9VAC25- 870-48 that began construction after July 1, 2014, if the activity disturbed one acre or greater and if the resulting total phosphorous load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition greater than 16% impervious cover. DPW will utilize Table 2 to develop the equivalent pollutant load for nitrogen for new sources meeting the requirements of this condition.

DPW will ensure that reductions achieved in accordance with the Permit for Discharges of Stormwater from Municipal Separate Storm Sewer Systems effective April 01, 2015, shall be applied toward the total reduction requirements to demonstrate compliance with Part I.D.1.b), c) and d). DPW will also ensure that reductions shall be achieved in each river basin in which the existing development, new development and grandfathered projects are located.

DPW will report loading and reduction values in accordance with Part I.D.1.g

DPW will achieve reductions through one or more of the options identified in I.D.1.h

DPW will ensure that any total nitrogen and total phosphorous credits acquired and used shall meet the criteria listed in I.D.1.i)1-5

DPW will submit an updated Chesapeake Bay TMDL action plan for the cumulative 40% reductions required in Part I.D.1.b), c) and d) by **January 15, 2025**. DPW will submit an updated Chesapeake Bay TMDL action plan for the cumulative 100% reductions required in Part I.D.1.b), c) and d) by **June 30, 2026**. The action plans shall include the information specified in Part I.D.1.j)1-7.

DPW will 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 prior to submittal of the action plan required in Part I.D.1.j).

DPW will address any modification to the TMDL or watershed implementation plan that occurs during the term of this permit as a part of its permit reapplication as required in Part III.M of this permit.

DPW shall implement the TMDL action plan required in Part I.D.1.j) of this permit according to the schedule therein. Compliance with this requirement represents

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adequate progress for this permit term towards achieving TMDL wasteload allocations consistent with the assumptions and requirements of the TMDL.

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PART I.D.1

**TMDL ACTION PLAN AND IMPLEMENTATION
CHESAPEAKE BAY SPECIAL CONDITION**

Each annual report shall include any modifications to the Chesapeake Bay TMDL action plan made during the July 1 to June 30 reporting period.

Noted. None to report at this time.

Each annual report shall include documentation identifying which BMPs were completed within the current annual reporting period. The following information shall also be included:

For BMPs used to meet the Chesapeake Bay TMDL requirements of Part I.D.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.

An additional 14 septic-to-sewer connections were made during the reporting period for a total of 356 (342 have been reported previously). These additional connections result in a reduction of 125.5 pounds of TN reduction.

$$\text{TN Reduction} = 3.6 \text{ lbs/year/person} \times 2.49 \text{ persons/household} \times 14 \text{ households}$$

$$\text{TN reduction} = 125.5 \text{ lbs/year}$$

For retrofit projects used to meet the Chesapeake Bay TMDL requirements of Part I.D.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

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PART I.D.1

ANNUAL REPORT SUPPLEMENT

JANUARY 16, 2024 THROUGH JUNE 30, 2024

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credit achieved with the retrofit (the incremental credit is defined as the difference 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.

Noted. None to report at this time.

A list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part II and the estimated reduction of pollutants of concern achieved by each and reported in pounds per year.

Noted. None to report at this time.

If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions in Part I.D.1.b), c) or d), a statement that credits were acquired.

Noted. None to report at this time.

Documentation that sufficient control measures have been implemented (or documentation detailing that implementation will be complete by June 30, 2026, for the cumulative 40% reductions and June 30, 2028 for the cumulative 100% reductions) to meet the compliance targets identified in this section. If temporary credits or offsets have been purchased in order to meet the compliance targets, the list of temporary reductions utilized to meet the cumulative required reductions of L2 in this permit and a schedule of implementation to ensure permanent cumulative 40% and 100% reductions shall be provided.

Noted. None to report at this time. This will be included in subsequent annual reports after program plan revisions have been submitted to the Department.

Following notification from the department of the start date for the required electronic submission of Chesapeake Bay TMDL implementation annual status

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reports, as provided for in 9VAC25-31-1020, such forms and reports submitted after that date 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 and reports must be submitted electronically.

Noted. None to report at this time.

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PART I.D.2 TMDL ACTION PLAN AND IMPLEMENTATION TMDL ACTION PLANS OTHER THAN THE CHESAPEAKE BAY TMDL

PERMIT LANGUAGE

- a) The Permittee shall update, as necessary, and maintain 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.D.2 a 1 and 2:
- 1) For TMDLs approved by EPA prior to April 1, 2015 and in which an individual or aggregate wasteload has been allocated to the permittee (see Attachment 3 to the Fact Sheet), the permittee shall develop and initiate or update as applicable the local TMDL action plans to meet the conditions of Part I.D.2 c, d, e, f, and g, as applicable, no later than 18 months after the permit effective date and continue implementation of the action plan. Updated action plans shall include:
 1. An evaluation of the results achieved by the previous action plan; and
 - b) Any adaptive management strategies incorporated into updated action plans based on action plan evaluation.
 - 2) For TMDLs approved by EPA on or after April 1, 2015, and prior to the effective date of this permit, 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 Part I.D.2 c, d, e, f, and g, as applicable no later than 30 months after the permit effective date.
- b) The permittee shall complete implementation of the TMDL action plans as determined by the schedule. 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 discharges in a manner that is consistent with the assumptions and requirements of the applicable TMDL.

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- c) Each local TMDL action plan developed by the permittee shall include the following:
- 1) The TMDL project name;
 - 2) The EPA approval date of the TMDL;
 - 3) The wasteload allocated to the permittee (individually or in aggregate), and the corresponding percent reduction, if applicable;
 - 4) Identification of the potential significant sources of the pollutants of concern discharging to the permittee's MS4 that are not covered under a separate VPDES permit. For the purposes of this requirement, a significant source of pollutants of concern 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 Part I.D.2 d and e;
 - a) Any calculations required in accordance with Part I.D.2 d and e;
 - b) For action plans developed in accordance with Part I.D.2 d and e, an outreach strategy to enhance the public's education (including employees) on methods to eliminate and reduce discharges of the pollutants; and
 - c) A schedule of anticipated actions planned for implementation during this permit term.
- d) Bacterial TMDLs
- 1) The permittee shall implement at least six strategies designed to reduce the load of bacteria to the MS4. Table 3 provides a list of strategies which correspond to sources identified in Part I.D.2 c 4. Additional strategies that are equivalent or better than the strategies provided in Table 3 may be used as approved by the Department.

Table 3
Strategies for Bacteria Reduction Stormwater Control/Management Strategy

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Source	Strategies (provided as an example and not meant to be all inclusive or limiting)
Domestic pets (dogs and cats)	<p>Provide signage to pick up dog waste, providing pet waste bags and disposal containers.</p> <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 disposing of the same (either through proper storage or through transport to a licensed facility).</p>
Illicit connections or illicit discharges to the MS4	<p>Implement an enhanced dry weather screening and illicit discharge, 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 though E 6 to explain to citizens why they should not dump materials into the MS4.</p>

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Source	Strategies (provided as an example and not meant to be all inclusive or limiting)
Dry weather urban flows (irrigations, car washing, powerwashing, etc.)	<p>Implement public education programs to reduce dry weather flows from storm sewers related to lawn and park irrigation practices, car washing, powerwashing and other nonstormwater flows. Provide irrigation controller rebates.</p> <p>Implement and enforce ordinances or policies related to outdoor water waste.</p> <p>Inspect commercial trash areas, grease traps, washdown practices, and enforce corresponding ordinances or policies.</p>
Birds (Canadian geese, gulls, pigeons, etc.)	<p>Identify areas with high bird populations and evaluate deterrents, population controls, habitat modifications and other measures that may reduce bird-associated bacteria loading.</p> <p>Prohibit feeding of birds.</p>
Other sources	<p>Enhance maintenance of stormwater management facilities owned or operated by the permittee.</p> <p>Enhance requirements for third parties to maintain stormwater management facilities.</p> <p>Develop BMPs for locating, transporting, and maintaining portable toilets used on permittee-owned sites.</p> <p>Educate third parties that use portable toilets on BMPs for use.</p> <p>Provide public education on appropriate recreational vehicle dumping practices.</p>

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e) Local sediment, phosphorus, and nitrogen TMDLs.

- 1) The permittee shall select and implement strategies designed to reduce the loads associated with sediment, phosphorus, or nitrogen to the permittee's MS4. The permittee may implement this requirement through one or more of the following:
 - a) One or more of the BMPs from the Virginia Stormwater BMP Clearinghouse listed in 9VAC25-870-65 or other approved BMPs found on the Virginia Stormwater BMP Clearinghouse website;
 - b) One or more BMPs approved by the Chesapeake Bay Program. Pollutant load reductions generated by annual practices, such as street and storm drain cleaning, shall only be applied to the compliance year in which the annual practice was implemented; or
 - c) Land disturbance thresholds lower than Virginia's regulatory requirements for erosion and sediment control and post development stormwater management.
- 2) The permittee may meet the local TMDL requirements for sediment, phosphorus, or nitrogen through BMPs implemented or sediment, phosphorus, or nitrogen credits acquired. BMPs implemented and nutrient and sediment credits acquired to meet the requirements of the Chesapeake Bay TMDL in Part I.D.1 may also be utilized to meet local TMDL requirements as long as the BMPs are implemented or the credits are generated in the watershed for which local water quality is impaired.
- 3) The permittee shall calculate the anticipated load reduction achieved from each BMP and include the calculations in the action plan required in Part I.D.2 c 5.

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- 4) No later than 36 months after the effective date of this permit, the permittee shall submit to the department an update on the progress made toward achieving local TMDL action plan goals and the anticipated end dates by which the permittee will meet each wasteload allocation for sediment, phosphorus, or nitrogen. The proposed end date may be developed in accordance with Part II.B.3.
- f) Prior to submittal of the action plan required in Part I.D.2 a, the permittee shall provide an opportunity for public comment for no fewer than 15 days on the proposal to meet the local TMDL action plan requirements.
- 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.
- h) For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.D.2 of the MS4 Permit are assigned to the following Departments / Divisions of the County:

Public Works (DPW)

DPW will update, as necessary, and maintain a local TMDL action plan for TMDLs approved by EPA prior to April 1, 2015 and in which an individual or aggregate wasteload has been allocated to Henrico County. The updated action plans shall include an evaluation of the results achieved by the previous action plan and any adaptive management strategies incorporated into updated action plans based on action plan evaluation by **July 16, 2025**. DPW will provide an opportunity for public comment for no fewer than 15 days on the proposal to meet the local TMDL action plan requirements prior to submittal of the action plan

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DPW will update, as necessary, and maintain a local TMDL action plan for TMDLs approved by EPA on or after April 1, 2015, and prior to the effective date of this permit, and in which an individual or aggregate wasteload has been allocated to Henrico County. DPW will develop and initiate implementation of action plans to meet the conditions of Part I.D.2 c, d, e, f, and g, as applicable, by the updated action plans shall include an evaluation of the results achieved by the previous action plan and any adaptive management strategies incorporated into updated action plans based on action plan evaluation by **July 16, 2026**. DPW will provide an opportunity for public comment for no fewer than 15 days on the proposal to meet the local TMDL action plan requirements prior to submittal of the action plan

DPW will complete implementation of the TMDL action plans as determined by the schedule and will consider use of the adaptive iterative approach. Each local TMDL action plan will include the following information:

1. The TMDL project name;
2. The EPA approval date of the TMDL;
3. The wasteload allocated to the permittee (individually or in aggregate), and the corresponding percent reduction, if applicable;
4. Identification of the potential significant sources of the pollutants of concern discharging to the permittee's MS4 that are not covered under a separate VPDES permit. For the purposes of this requirement, a significant source of pollutants of concern 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 Part I.D.2 d and e;
 - a. Any calculations required in accordance with Part I.D.2 d and e;
 - b. For action plans developed in accordance with Part I.D.2 d and e, an outreach strategy to enhance the public's education (including employees) on methods to eliminate and reduce discharges of the pollutants; and
 - c. A schedule of anticipated actions planned for implementation during this permit term.

DPW will implement at least six strategies to reduce the load of bacteria using Table 3 provided or additional strategies equivalent or better as approved by the Department.

DPW will select and implement strategies designed to reduce the loads associated with sediment, phosphorus, or nitrogen to the county's MS4 through implementation of one of the following:

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- a) One or more of the BMPs from the Virginia Stormwater BMP Clearinghouse listed in 9VAC25-870-65 or other approved BMPs found on the Virginia Stormwater BMP Clearinghouse website;
- b) One or more BMPs approved by the Chesapeake Bay Program. Pollutant load reductions generated by annual practices, such as street and storm drain cleaning, shall only be applied to the compliance year in which the annual practice was implemented; or
- c) Land disturbance thresholds lower than Virginia's regulatory requirements for erosion and sediment control and post development stormwater management.

DPW will calculate the anticipated load reduction achieved from each BMP and include the calculations in the action plan required in Part I.D.2 c 5.

DPW will submit to the Department an update on the progress made toward achieving local TMDL action plan goals and the anticipated end dates by which we will meet each wasteload allocation for sediment, phosphorus, or nitrogen by **January 16, 2027**.

DPW will incorporate by reference each local TMDL action plan into the MS4 Program Plan and will include 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.

DPW will include a summary of actions conducted to implement each local TMDL action plan in the annual reports due **October 1**.

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**PART I.D.2 TMDL ACTION PLAN AND IMPLEMENTATION
TMDL ACTION PLANS OTHER THAN THE CHESAPEAKE
BAY TMDL**

No later than 36 months after the effective date of this permit, the permittee shall submit to the department an update on the progress made toward achieving local TMDL action plan goals and the anticipated end dates by which the permittee will meet each wasteload allocation for sediment, phosphorus, or nitrogen. The proposed end date may be developed in accordance with Part II.B.3

Noted.

For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan

Chickahominy River Benthic TMDL Action Plan

BMPs, Programs, and/or Projects Implemented during the MS4 Permit Year	Implementation Details
Erosion and Sediment Control Program	This program continues to be administered and implemented in accordance with the requirements of the state law and regulations. Details can be found in the MS4 Annual Supplement for Part I.B.2.a.
Stormwater Management Program	This program continues to be administered and implemented in accordance with the requirements of the state law and regulations. Details can be found in the MS4 Annual Supplement for Part I.B.2.a.
Illicit Discharge Detection and Elimination Program	This program continues to be administered and implemented in accordance with the requirements of the MS4 Permit. Details can be found in the MS4 Annual Supplement for Part I.B.2.e.

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BMPs, Programs, and/or Projects Implemented during the MS4 Permit Year	Implementation Details
SWM Facility and MS4 Infrastructure Inspection and Maintenance Programs	These programs continue to be administered and implemented in accordance with state law, regulations and the MS4 Permit. Details can be found in the MS4 Annual Supplements for Parts I.B.2.h and I.C.3.
Public Education, Public Outreach, and Employee Training	These efforts continue to be implemented in accordance with the MS4 Permit, the MS4 Program Plan, and the Chickahominy River Benthic TMDL Action Plan. Details of these efforts can be found in the MS4 Annual Supplements for Parts I.B.2.j and I.B.2.k.

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Escherichia Coli TMDL Action Plan

BMPs and/or Programs Implemented during the MS4 Permit Year	Implementation Details
Illicit Discharge Detection and Elimination Program	This program continues to be administered and implemented in accordance with the requirements of the MS4 Permit. Details can be found in the MS4 Annual Supplement for Part I.B.2.e.
Public Education, Public Outreach, and Employee Training	These efforts continue to be implemented in accordance with the MS4 Permit, the MS4 Program Plan, and the Chickahominy River Benthic TMDL Action Plan. Details of these efforts can be found in the MS4 Annual Supplements for Parts I.B.2.j and I.B.2.k.

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PART I.E ANNUAL REPORTING

PERMIT LANGUAGE

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 and include the following separate sections:
 - a) Background Information:
 - 1) The permittee and permit number of the program submitting the annual report;
 - 2) Any modifications to the MS4 Program Plan as a result of the annual report including a summary of progress toward development and update of MS4 Program Plan components as required by Part I.A.6;
 - 3) The reporting dates for which the annual report is being submitted; and
 - 4) Certification as per Part III.K.
 - b) A summary of the components implemented under Part I.B 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;
 - c) A summary report of the monitoring programs listed under Part I.C;
 - d) A summary of the implementation of each component listed under Part I.D; and
 - e) The Specific Reporting Requirements identified in this state permit.
2. 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 forms and reports submitted after that date 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 and reports must be submitted electronically.

HENRICO COUNTY MS4 PROGRAM PLAN

MS4 PROGRAM ELEMENTS, ROLES, AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part I.E of the MS4 Permit are assigned to the following Departments / Divisions of the County:

Public Works (DPW)

DPW will develop annual reports that include the following:

1. the permittee and the permit number;
2. any modifications to the MS4 Program Plan as a result of the annual report including a summary of progress toward development and update of MS4 Program Plan components as required by Part I.A.6;
3. the reporting dates for which the annual report is being submitted; and
4. the certification as per Part III.K
5. a summary of the implementation of each of the components established under Part I.B. and an evaluation of the effectiveness of each component;
6. a summary report of the monitoring programs listed under Part I.C;
7. a summary of the implementation of each component listed under Part I.D;
8. the Specific Reporting Requirements identified in this state permit.

DPW will submit annual reports to DEQ in accordance with the following schedule:

Reporting Period	Annual Report Due Date
January 16, 2024 through June 30, 2024	October 1, 2024
July 1, 2024 through June 30, 2025	October 1, 2025
July 1, 2025 through June 30, 2026	October 1, 2026
July 1, 2026 through June 30, 2027	October 1, 2027
July 1, 2027 through June 30, 2028	October 1, 2028
July 1, 2028 through January 15, 2029	October 1, 2029

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PART I.F DEFINITIONS

Definitions contained in the Virginia Stormwater Management Act, Part I (9VAC25-870-10) and Federal NPDES rules, 40 CFR Part 122, apply where a definition is not specified below. Unless otherwise specified in this state permit, additional definitions or words or phrases used in this state permit are as follows:

1. "Annual practice" means a nonstructural best management practice such as street or storm drain cleaning that reduces pollution for one compliance year upon implementation
2. "Best management practice" or "BMP" means schedules of activities, prohibitions of practices, including both structural and nonstructural practices, maintenance procedures, and other management practices to prevent or reduce the pollution of surface waters and groundwater systems from the impacts of land-disturbing activities.
3. "Board" means the State Water Control Board. When used outside the context of the promulgation of regulations, including regulations to establish general permits, "board" means the Department of Environmental Quality.
4. "Date brought online" means the date when the permittee determines that a new stormwater management facility is properly functioning to meet its designed pollutant load reduction.
5. "Department" means the Department of Environmental Quality.
6. "Ecosystem restoration projects" means practices implemented to reestablish and maintain natural systems that prevent, reduce, or remediate pollutant loadings. Examples of ecosystem restoration projects include stream restoration, shoreline restoration, land-use conversion, and reforestation.
7. "High priority municipal facility" means facilities owned or operated by the permittee with drainage to any permitted MS4 that actively engage in one or more of the following activities: (i) composting, (ii) equipment storage, cleaning and maintenance, (iii) long-term materials storage, (iv) pesticide, herbicide, and fertilizer storage, (v) recycling (vi) anti-icing and deicing storage, handling and transfer, (vii) solid waste handling and transfer, and (viii) permittee owned or operated vehicle washing, maintenance, and salvage..

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8. "Industrial land use" means land utilized in connection with manufacturing, processing, or raw materials storage at facilities identified under 40 CFR Part 122.26(b)(14).
9. "Maintenance" means maintenance on the MS4 and associated structural stormwater controls including, but not limited to, activities such as inspections of basins and ponds; repair and replacement of failed controls, mowing grass filter strips; regular removal of litter and debris from dry ponds, forebays and water quality inlets; periodic stabilization and revegetation of eroded areas; periodic removal and replacement of filter media from infiltration trenches and filtration ponds; periodic removal of trash and sediment; deep tilling of infiltration basins to maintain capacity; vacuuming or jet hosing of porous pavement or concrete grid pavements; and removal of litter and debris from wet weather conveyances.
10. "Permittee" means Henrico County.
11. "Physically interconnected" means that one MS4 is connected to a second MS4 in such a manner that it allows for direct discharges to the second system.
12. "Pollutants of concern" or "POC" means pollutants specifically identified in a U.S. Environmental Protection Agency approved total maximum daily load (TMDL) report as causing a water quality impairment.
13. "Retrofit" means the modification of existing stormwater management facilities, as defined herein, including flood control structures, through construction and/or enhancement in order to address water quality improvements. Retrofit also means the installation or implementation of source reductions to provide water quality improvements on previously developed land where no stormwater source reductions previously existed.

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PART II DEQ WAREHOUSE REPORTING

- A. For the purpose of Part II of this permit, best management practice or BMP means a practice that achieves quantifiable nitrogen, phosphorus, or total suspended solids reductions including stormwater management facilities, ecosystem restoration projects, annual practices, and other practices approved by the Department for reducing nitrogen, phosphorus, and total suspended solids pollutants. Facilities that solely provide peak flow control as required by Henrico 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. In addition, ecosystem restoration projects shall be inspected and maintained in accordance with the protocols developed by the Chesapeake Bay Program or inspection and maintenance plans developed in accordance with the department's Stormwater Local Assistance Fund (SLAF) guidelines.
- B. No later than October 1 of each year, the permittee shall electronically report new BMPs implemented and inspected as applicable between July 1 and June 30 of each year using the DEQ BMP Warehouse.
1. 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 a General VPDES Permit for Discharges of Stormwater from Construction Activities.
 2. The permittee shall use the associated reporting template for stormwater management facilities not reported in accordance with Part II.B.1 including stormwater management facilities installed to control postdevelopment stormwater runoff from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations (9VAC25-830) if applicable and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required.
 3. The permittee shall use the DEQ BMP Warehouse to report BMPs that were not reported in accordance with Part II.B.1 or 2 and were implemented as part of a TMDL action plan to achieve nitrogen, phosphorus, and total suspended solids reductions in accordance with Part I.D.1 or 2.
 4. The permittee shall use the DEQ BMP Warehouse to report any BMPs that were not reported in accordance with Part II B.1, 2, or 3.

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5. The permittee shall use the DEQ BMP Warehouse to report the most recent inspection date for BMPs in accordance with Part I.B.2.h) 1) or 2), or in accordance with Part I.D and the most recent associated TMDL action plan.
- C. The following information for each new BMP reported in accordance with Part II.B.1, 2, 3, or 4 shall be reported to the DEQ BMP Warehouse as applicable:
1. The BMP type;
 2. The BMP location as decimal degree latitude and longitude;
 3. The acres treated by the BMP, including total acres and impervious acres;
 4. The date the BMP was brought online (MM/YYYY). If the date brought online is not known, the permittee shall use 06/2005;
 5. The 6th Order Hydrologic Unit Code in which the BMP is located;
 6. Whether the BMP is owned or operated by the permittee or privately owned;
 7. Whether or not the BMP is part of the permittee's Chesapeake Bay TMDL action plan required in Part I.D.1 or local TMDL action plan required in Part I.D.2, or both;
 8. If the BMP is privately owned, whether a maintenance agreement exists;
 9. The date of the permittee's most recent inspection of the BMP; and
 10. Any other information specific to the BMP type required by the DEQ BMP Warehouse (e.g., linear feet of stream restoration).
- D. No later than October 1 of each year, the permittee shall electronically report the most recent inspection date for any existing BMP that was previously reported and re-inspected between July 1 and June 30 using the BMP Warehouse. If an existing BMP has not been previously reported, the BMP shall be reported as new in accordance with Part II.B.1, 2, 3, or 4 and Part II.C.
- E. No later than October 1 of each year the DEQ BMP Warehouse shall be updated if an existing BMP is discovered between July 1 and June 30 that was not previously reported to the DEQ BMP Warehouse.

MS4 PROGRAM ELEMENTS, ROLES AND RESPONSIBILITIES

In accordance with Part I.A.2 of the MS4 Permit, responsibility for the various tasks and programs necessary to demonstrate compliance with Part II of the MS4 Permit are assigned to the following Departments / Divisions of the County:

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Public Works (DPW)

DPW will use the DEQ Construction Stormwater Database to report each new BMP implemented and inspected as applicable between July 1 and June 30 of each year. This reporting includes stormwater management facilities installed after July 1, 2014, to address the control of post-construction runoff from land disturbing activities for which we obtained a General VPDES Permit for Discharges of Stormwater from Construction Activities. For 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, the associated reporting template will be used.

DPW will use the DEQ BMP Warehouse to report BMPs that were not reported in accordance with Part II.B.1 or 2 and were implemented as part of a TMDL action plan to achieve nitrogen, phosphorus, and total suspended solids reductions in accordance with Part I.D.1 or 2. DPW will also use the DEQ BMP Warehouse to report any BMPs not reported in accordance with Part II.B.1, 2, or 3. The most recent inspection date for BMPs will be reported in the DEQ BMP Warehouse for BMPs in accordance with Part I.B.2.h) 1) or 2) or in accordance with Part I.D and the most recent associated TMDL action plan.

DPW will use the DEQ BMP Warehouse to report the following information for each new BMP reported in accordance with Part II.B.1, 2, 3, or 4:

1. The BMP type;
2. The BMP location as decimal degree latitude and longitude;
3. The acres treated by the BMP, including total acres and impervious acres;
4. The date the BMP was brought online (MM/YYYY). If the date brought online is not known, DPW will use 06/2005;
5. The 6th Order Hydrologic Unit Code in which the BMP is located;
6. Whether the BMP is owned or operated by the permittee or privately owned;
7. Whether or not the BMP is part of the permittee's Chesapeake Bay TMDL action plan required in Part I.D.1 or local TMDL action plan required in Part I.D.2, or both;
8. If the BMP is privately owned, whether a maintenance agreement exists;
9. The date of the permittee's most recent inspection of the BMP; and
10. Any other information specific to the BMP type required by the DEQ BMP Warehouse (e.g., linear feet of stream restoration).

DPW will use the BMP warehouse to electronically report by **October 1** each year the most recent inspection date for any existing BMP that was previously reported and re-

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inspected between July 1 and June 30. DPW will report a BMP as new in accordance with Part II.B.1, 2, 3, or 4 and Part II.C if the existing BMP has not been previously reported.

DPW will update the DEQ BMP Warehouse if an existing BMP is discovered between July 1 and June 30 that was not previously reported each year by **October 1**.

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PART III: CONDITIONS APPLICABLE TO ALL VSMP MS4 PERMITS

A. MONITORING

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this state permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will ensure accuracy of measurements.
4. Samples taken as required by this state permit shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. RECORDS

1. Monitoring records/reports shall include:
 - a) The date, exact place, and time of sampling or measurements;
 - b) The individual(s) who performed the sampling or measurements;
 - c) The date(s) and time(s) analyses were performed;
 - d) The individual(s) who performed the analyses;
 - e) The analytical techniques or methods used; and

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- f) The results of such analyses.
2. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation; copies of all reports required by this state permit; and records of all data used to complete the registration statement for this state permit, for a period of at least 3 years from the date of the sample, measurement, report or request for coverage. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. REPORTING MONITORING RESULTS

1. The permittee shall submit the results of the monitoring required by this state permit with the annual report unless another reporting schedule is specified elsewhere in this state permit.
2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department; or in any format provided that the date, location, parameter, method, and result of the monitoring activity are included. Following notification from the Department of the start date for the required electronic submission of monitoring reports, as provided for in 9VAC25-31-1020, such forms and reports submitted after that date 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 and reports must be submitted electronically.
3. If the permittee monitors any pollutant specifically addressed by this state permit more frequently than required by this state permit using test procedures approved under 40 CFR Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this state permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.
4. Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this state permit.

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D. DUTY TO PROVIDE INFORMATION

The permittee shall furnish to the Department, within a reasonable time, any information that the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this state permit or to determine compliance with this state permit. The Department may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from its discharge on the quality of surface waters, or such other information as may be necessary to accomplish the purposes of the Clean Water Act and Virginia Stormwater Management Act. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this state permit.

E. COMPLIANCE SCHEDULE REPORTS

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this state permit shall be submitted no later than 14 days following each schedule date.

F. UNAUTHORIZED STORMWATER DISCHARGES

Pursuant to § 62.1-44.15:26 of the Code of Virginia, except in compliance with a permit issued by the Department, it shall be unlawful to cause a stormwater discharge from a MS4.

G. REPORTS OF UNAUTHORIZED DISCHARGES

Any operator of a regulated MS4 who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance or a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117 or 40 CFR Part 302 that occurs during a 24-hour period into or upon surface waters; or who discharges or causes or allows a discharge that may reasonably be expected to enter surface waters, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than within 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted

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to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this state permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. REPORTS OF UNUSUAL OR EXTRAORDINARY DISCHARGES

If any unusual or extraordinary discharge including “bypass” or “upset”, as defined herein, should occur from a facility and the discharge enters or could be expected to enter surface waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse effects on aquatic life and the known number of fish killed. The permittee shall produce a written report and submit it to the Department within five days of discovery of the discharge in accordance with Part III.1.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;

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2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the facilities; and
4. Flooding or other acts of nature.

I. REPORTS OF NONCOMPLIANCE

The permittee shall report any noncompliance, which may adversely affect surface waters or may endanger public health.

1. A report shall be provided within 24 hours to the Department from the time the permittee becomes aware of the circumstances. The following shall be included as information, which shall be reported within 24 hours under this paragraph:
 - a) Any unanticipated bypass; and
 - b) Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
 - a) A description of the noncompliance and its cause;
 - b) The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - c) Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Department or its designee may waive the written report on a case-by-case basis for reports of noncompliance under Part III.1 if the report has been received within 24 hours and no adverse impact on surface waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Part III.1.2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.2.

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NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office. Pollution Response Program as found at <https://www.deq.virginia.gov/our-programs/pollution-response/pollution-data-and-reporting>. Reports may be made by telephone or by fax. For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

4. Whenever the permittee becomes aware of a failure to submit any relevant facts, or submitted incorrect information in any report to the Department, it shall promptly submit such facts or information.

J. NOTICE OF PLANNED CHANGES

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a) The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - 1) After promulgation of standards of performance under § 306 of the Clean Water Act that are applicable to such source; or
 - 2) After proposal of standards of performance in accordance with § 306 of the Clean Water Act that are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal.
 - b) The permittee plans alteration or addition that would significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in this state permit; or
2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity, which may result in

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noncompliance with permit requirements.

K. SIGNATORY REQUIREMENTS

1. Permit Applications. All permit applications shall be signed as follows:
 - a) For a corporation: by a responsible corporate officer. For the purpose of this subsection, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c) For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this subsection, a principal executive officer of a public agency includes:
 - 1) The chief executive officer of the agency, or
 - 2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part III.K.1, or by a duly authorized representative of that person. A person is a duly

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authorized representative only if:

- a) The authorization is made in writing by a person described in Part III.K.1;
 - b) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the operator. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and
 - c) The written authorization is submitted to the Department.
3. Changes to authorization. If an authorization under Part III.K.2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part III.K.2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
 4. Certification. Any person signing a document under Parts :II.K.1 or 2 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. DUTY TO COMPLY

The permittee shall comply with all conditions of this state permit. Any permit noncompliance constitutes a violation of the Virginia Stormwater Management Act

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and the Clean Water Act, except that noncompliance with certain provisions of this state permit may constitute a violation of the Virginia Stormwater Management Act but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under § 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this state permit has not yet been modified to incorporate the requirement.

M. DUTY TO REAPPLY

If the permittee wishes to continue an activity regulated by this state permit after the expiration date of this state permit, the permittee shall submit a completed EPA Form 1 and an updated MS4 Program Plan at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. EFFECT OF A PERMIT

This state permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. STATE LAW

Nothing in this state permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by § 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part III.U), and "upset" (Part III.V) nothing in this state permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

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P. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this state permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law or section 311 of the Clean Water Act.

Q. PROPER OPERATION AND MAINTENANCE

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this state permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this state permit.

R. DISPOSAL OF SOLIDS OR SLUDGES

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering surface waters.

S. DUTY TO MITIGATE

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this state permit, which has a reasonable likelihood of adversely affecting human health or the environment.

T. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain

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compliance with the conditions of this state permit.

U. BYPASS

1. "Bypass", as defined in 9VAC25-870-10, means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.U.2 and U.3.
2. Notice
 - a) Anticipated Bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
 - b) Unanticipated Bypass. The permittee shall submit notice of an unanticipated bypass as required in Part III.I.
3. Prohibition of bypass.
 - a) Bypass is prohibited, and the Department or its designee may take enforcement action against a permittee for bypass, unless:
 - 1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - 2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
 - 3) The permittee submitted notices as required under Part III.U.2.

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- b) The Department or its designee may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in Part III.U.3 a.

V. UPSET

1. An upset, as defined in 9VAC25-870-10, constitutes an affirmative defense to an action brought for noncompliance with technology-based permit effluent limitations if the requirements of Part III.V.3 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
3. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

An upset occurred and that the permittee can identify the cause(s) of the upset;

- a) The permitted facility was at the time being properly operated;
 - b) The permittee submitted notice of the upset as required in Part III.I.; and
 - c) The permittee complied with any remedial measures required under Part III.S.
4. In any enforcement preceding the permittee seeking to establish the occurrence of an upset has the burden of proof.

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W. INSPECTION AND ENTRY

The permittee shall allow the Department, EPA, or an authorized representative (including an authorized contractor acting as a representative of the administrator) upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this state permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this state permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this state permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the Virginia Stormwater Management Act, any substances or parameters at any location.

For purposes of this subsection, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. PERMIT ACTIONS

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. TRANSFER OF PERMITS

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part III.Y.2, a permit may be transferred

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by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the Virginia Stormwater Management Act and the Clean Water Act.

2. As an alternative to transfers under Part III.Y.1., this state permit may be automatically transferred to a new permittee if:
 - a) The current permittee notifies the Department at least two days in advance of the proposed transfer of the title to the facility or property;
 - b) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c) The Department does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part III.Y.2.b.

Z. SEVERABILITY

The provisions of this state permit are severable, and if any provision of this state permit or the application of any provision of this state permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this state permit, shall not be affected thereby.

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Applicable TMDL Wasteload Allocations

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TMDL Report	EPA Approval Date	SWCB Approval Date	TMDL Watershed	Pollutant	WLA ¹	WLA Units	The WLA is aggregated between the Henrico County MS4 and these MS4 permittees:
Benthic TMDL Development, C hickahominy River, VA	11/7/2013	3/28/2014	Chickahominy River	Sediment	202.68	tons/year	VDOT MS4 (VAR040115)
E. coli TMDL Development for Chickahominy River and Tributaries, VA (A Nested TMDL Approach)	9/19/2012	3/25/2013	Chickahominy River and Tributaries	<i>Escherichia coli</i>	1.04E+11	cfu/year	VDOT MS4 (VAR040115)
Bacteria TMDL for Fourmile Creek, Henrico County, Virginia	9/20/2004	7/31/2008	Bailey Creek portion of Fourmile Creek Watershed	<i>Escherichia coli</i>	3.99E+10	cfu/year	N/A
Bacteria TMDL for Tuckahoe Creek, Little Tuckahoe Creek, Anderson, Broad, Georges and Readers Branches, and Deep Run, Henrico, Goochland and Hanover Counties, Virginia	9/20/2004	7/31/2008	Tuckahoe Creek and Tributaries	<i>Escherichia coli</i>	1.05E+13	cfu/year	N/A
Bacteria TMDL for White Oak Swamp, Henrico County, Virginia	9/20/2004	7/31/2008	White Oak Swamp	<i>Escherichia coli</i>	1.58E+12	cfu/year	N/A

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TMDL Report	EPA Approval Date	SWCB Approval Date	TMDL Watershed	Pollutant	WLA ¹	WLA Units	The WLA is aggregated between the Henrico County MS4 and these MS4 permittees:
Bacterial Total Maximum Daily Load Development for the James River and Tributaries - City of Richmond	11/4/2010	6/29/2012	Almond Creek	<i>Escherichia coli</i>	1.18E+12	cfu/year	MS4 VDOT
Bacterial Total Maximum Daily Load Development for the James River and Tributaries - City of Richmond	11/4/2010	6/29/2012	Gillies Creek	<i>Escherichia coli</i>	5.78E+11	cfu/year	MS4 VDOT
Bacterial Total Maximum Daily Load Development for the James River and Tributaries - City of Richmond	11/4/2010	6/29/2012	James River (lower) Impaired	<i>Escherichia coli</i>	3.50E+13	cfu/year	MS4 VDOT
Bacterial Total Maximum Daily Load Development for the James River and Tributaries - City of Richmond	11/4/2010	6/29/2012	James River (tidal)	<i>Escherichia coli</i>	1.36E+12	cfu/year	MS4 VDOT
Bacterial Total Maximum Daily Load Development for the James River and Tributaries - City of Richmond	11/4/2010	6/29/2012	James River (upper) delisted	<i>Escherichia coli</i>	5.69E+12	cfu/year	MS4 VDOT
Bacterial Total Maximum Daily Load Development for the James River and Tributaries - City of Richmond	11/4/2010	6/29/2012	James River (lower) delisted	<i>Escherichia coli</i>	4.74E+13	cfu/year	MS4 VDOT
Chesapeake Bay TMDL	12/29/2010	N/A	Chickahominy River oligohaline estuary	Total Nitrogen	25,385.25	lbs/year	All regulated stormwater permits
Chesapeake Bay TMDL	12/29/2010	N/A	Chickahominy River oligohaline estuary	Total Phosphorus	13,337.88	lbs/year	All regulated stormwater permits
Chesapeake Bay TMDL	12/29/2010	N/A	Chickahominy River oligohaline estuary	Total Suspended Solids	522,195.38	lbs/year	All regulated stormwater permits
Chesapeake Bay TMDL	12/29/2010	N/A	James River upper tidal freshwater estuary	Total Nitrogen	150,930.68	lbs/year	All regulated stormwater permits
Chesapeake Bay TMDL	12/29/2010	N/A	James River upper tidal freshwater estuary	Total Phosphorus	20,531.88	lbs/year	All regulated stormwater permits
Chesapeake Bay TMDL	12/29/2010	N/A	James River upper tidal freshwater estuary	Total Suspended Solids	4,435,348.87	lbs/year	All regulated stormwater permits

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TMDL Report	EPA Approval Date	SWCB Approval Date	TMDL Watershed	Pollutant	WLA ¹	WLA Units	The WLA is aggregated between the Henrico County MS4 and these MS4 permittees:
Total Maximum Daily Load Development for the Upham Brook Watershed	7/24/2008	4/28/2009	Upham Brook and Tributaries	<i>E. coli</i>	N/A	N/A -	WLA to be addressed in TMDL IP
Bacteria TMDL Development for the Turkey Island Creek and James River Westover to Claremont Watershed in Charles City, Henrico, Prince George, and Surry Counties, Virginia	12/22/2015	10/01/2015	Turkey Island Creek; James River and Tributaries, Westover to Chippokes Point; James River and Tributaries, Chippokes Point to Claremont	<i>E. coli</i>	4.31E+11	lbs/year	VDOT MS4 (VAR040115)

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