CITY OF VIRGINIA BEACH

MS4 Permit Annual Report

July 1, 2025 - June 30, 2026



STORMWATER MANAGEMENT

Public Works Department
MS4 Permit # VA0088676

September 30, 2026

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Department of Public Works

Submission Date: September 30, 2026

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Acronyms and Abbreviations

BMP	Best Management Practice
CGP	Construction General Permit
CIP	Capital Improvement Program
City	City of Virginia Beach
DEQ	Department of Environmental Quality
DMR	Discharge Monitoring Reports
DWS	Dry Weather Screening
EA	Each
FY	Fiscal Year
GIS	Geographic Information System
HHW	Household Hazardous Waste
HRPDC	Hampton Roads Planning District Commission
HRSD	Hampton Roads Sanitation District
HUC6	Sixth Order Hydrologic Unit Code
IHRR	Industrial and High-Risk Runoff
lbs/yr	pounds per year
LF	Linear Feet
mg/L	milligram(s) per liter
MS4	Municipal Separate Storm Sewer System
MTD	Manufactured Treatment Device
NMP	Nutrient Management Plan
SWMF	Stormwater Management Facility
SWPPP	Stormwater Pollution Prevention Plan
TBD	To Be Determined
TMDL	Total Maximum Daily Load
TN	Total Nitrogen
TP	Total Phosphorus
VBCAP	Virginia Beach Conservation Assistance Program
VDOT	Virginia Department of Transportation
VESMP	Virginia Erosion and Stormwater Management Program
VPDES	Virginia Pollutant Discharge Elimination System
WLA	Waste Load Allocation

MS4 Permit Annual Report

The City of Virginia Beach submits this annual report to the Virginia Department of Environmental Quality to document compliance with MS4 Permit VA0088676. The report addresses the specific requirements of Part I.A.2 and Part I.E, summarizes implementation of program elements in Part I.B, and presents effectiveness evaluations. Supporting documents are available upon request at vbstormwater@vbgov.com.

MS4 Permit and Program Information

The City of Virginia Beach (City) was reissued Municipal Separate Storm Sewer System (MS4) Permit VA0088676 on January 26, 2024. The MS4 Permit Part I.E requires the City to submit an annual report to Virginia DEQ no later than October 1st of each year. This annual report covers July 1, 2025–June 30, 2026 (City FY 2026) and addresses the specific requirements of Permit Part I.A.2 and Part I.E.

This report is organized by the reporting elements listed in the MS4 permit to ensure that all permit requirements are addressed and simplifies regulatory review by including the *Specific Reporting Requirements* for each reporting element listed. The Stormwater Management section includes an effectiveness evaluation for each program component as required by the permit. Copies of supporting documents are available upon request to vbstormwater@vbgov.com.

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 people 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."



Name: Melanie D. Coffey, P.E.
Title: MS4 Permit Administrator
Date: September 30, 2026

Specific Reporting Requirements

The specific reporting requirements included in Part I.A. of the permit are addressed in this section.

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

The roles and responsibilities of the City departments and divisions and the Virginia Beach Schools to maintain compliance with MS4 permit requirements are detailed in Appendix A.

Additionally, some responsibilities are met through partnership with the Hampton Roads Planning District Commission (HRPDC). These responsibilities are outlined through an agreement between the City and the HRPDC. The program elements that fall under this agreement pertain to public education and participation activities, and the regional in-system monitoring program.

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

The City did not have any circumstances of non-compliance outside of its control during this permit year.

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

The City updated portions of Chapter 28 Sewers and Sewage Disposal. The City updated Appendix F Chesapeake Bay Preservation Area Ordinance to align with updated State regulations. Code of Ordinances | Virginia Beach, VA | Municode Library

A copy of the fiscal year's budget including its proposed capital and operations and maintenance expenditures necessary to accomplish the activities required by this state permit shall be submitted with each annual report.

The stormwater budget is the total expenditure of the Storm Water Utility Enterprise Fund FY 2025-2026 adopted budget of $57,500,383 and a portion of the General Fund of $20,631,218 for a total budget of $78,131,601. The details of the budget are described in the City's Adopted FY 2025-2026 Operating Budget.

The Capital Improvement Program (CIP) stormwater budget approved for FY 2025-2026 was $29,144,001, which leverages bond funding to perform the improvements. The CIP projects include improvements to address water quality and infrastructure operations and maintenance. Capital projects are major expenditures for renewal and replacement of existing infrastructure

or for construction of new infrastructure. A six-year CIP is developed to define needs, set priorities, plan funding, and anticipate budget impacts of proposed capital projects.

The total combined budget for capital and operations and maintenance expenditures for FY 2025-2026 is $107,275,602. The Capital Improvement Program and Operating Budget for FY 2025-2026 are available in the budget archives on the website Budget | City of Virginia Beach.

During the General Election in November of 2021, Virginia Beach residents voted to authorize $567.5 million dollars in debt to fund the design and construction of designated projects in the citywide Flood Protection Program. A dedication of the real estate tax was established to support the flood protection program. These funds are budgeted in a "lock box" and cannot be used for other purposes. For FY 2025-2026, $33,839,802 was appropriated.

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

Payment of Invoice 300386 for the MS4 permit maintenance fee in the amount of $8,800 was paid to DEQ in September 2025 through Purchase Order P215133.

The annual report shall include a summary of any updates to the MS4 Program Plan made during the reporting year. 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. All modifications and proposed modifications shall be reported in accordance with this section of the permit.

The MS4 program plan was updated to incorporate the new items in the 2024 permit that were not included in the 2016 permit. Several documents referenced in the *MS4 Program Plan* were updated this year. These include the *2025 Chesapeake Bay TMDL Action Plan* and the *2025 Local Phosphorus and Bacteria TMDL Action Plans*. No programs were eliminated or replaced during this permit year. The City's MS4 Program Plan and TMDL Action Plans can be found on the City's website, Stormwater Regulations | City of Virginia Beach.

Stormwater Management

This section summarizes the implementation, specific reporting requirements, and effectiveness of each MS4 permit component in Part I.B, as required by MS4 Permit Part I.E Annual Reporting.

1. Planning

This section summarizes how the City identifies and selects stormwater management projects, as required under MS4 Permit Section I.B.1. Potential stormwater management projects to be implemented are identified through a site identification and prioritization process. Planned projects that are under design or under construction are on the website: Stormwater Quality Projects & Evaluations | City of Virginia Beach. Opportunities for public comment are promoted

on the webpage during the development of the project design for each project. Outreach is performed through various methods and is project dependent. Methods include public input online survey, direct mailings, community meetings, and public information meetings for residents.

Spatial tools are used for the site selection process for water quality project identification and prioritization. The selection process uses geographic information system (GIS) based analyses with the best available spatial data to determine site-specific feasibility for stormwater management facility (SWMF) implementation. The GIS review helps find locations that are suitable by looking at the landscape, boundaries, water quality issues, and basic site details.

During the project evaluation phase, a high-level initial evaluation is performed at the site level to evaluate the site constraints and determine how much runoff and pollutant loading can be captured and treated by a recommended practice type. This year, staff completed initial evaluations for 44 sites. Next a concept evaluation is performed including initial sizing of the facility, estimating pollutant reductions, and evaluation of the downstream conditions, cost, and implementation feasibility. Additional information may be provided to key stakeholders such as Schools, Parks, or private property owners.



Initial Evaluation Diagram for a proposed Manufactured Treatment Device

Staff implement a site identification and prioritization process as described below.

Site Screening and Feasibility

- Identify possible project sites within the City's Chesapeake Bay and local total maximum daily load (TMDL) watersheds.
- Rank project sites based on spatially identified characteristics.
- Evaluate site feasibility using GIS and hydraulic modeling.
- Perform initial evaluation to determine if a project is feasible at the location.

Project Prioritization

- Perform concept evaluation to determine pollutant reductions and cost.
- Rank potential sites for advancement to project development based on benefits and constraints, estimated cost, amount of pollutant removal, public acceptance, easement and property acquisition, and feasibility of operations and maintenance activities.

An initial watershed project planning strategy was completed for the Thalia Creek watershed. Site feasibility was evaluated using a GIS site screening tool. Initial evaluations were performed for sites that met minimum feasibility criteria. Projects evaluated will be considered for implementation of the Chesapeake Bay TMDL Action Plan. A similar effort is underway to perform initial evaluations for sites within the London Bridge Creek watershed which meet the minimum feasibility criteria.

Funding is programmed for the projects based on prioritization and funding availability. Projects programmed to receive funding are added to the list in Appendix B as a potential project. A list of projects was developed to support the implementation of the Total Phosphorus TMDL Action Plan for the North Landing River watershed. The list of potential projects is included in Appendix B. An effort is underway to rank and prioritize projects from this list for implementation.

Program Evaluation

The City uses an effective planning process to identify feasible projects that can be implemented to help improve the quality of waterways. Stormwater management project status information is available at Stormwater Quality Projects & Evaluations | City of Virginia Beach.

2. Construction Site Runoff and Post Construction Runoff

The City operates a local erosion and stormwater management program that complies with Virginia codes and regulations, in accordance with MS4 Permit Section I.B.2.a. The purpose of this program is to implement effective measures that reduce pollutants generated by land development activities. The program is established by the following Code of Ordinances | Virginia Beach, VA | Municode Library.

- Erosion and Stormwater Management (Appendix D)
- Southern Rivers Watershed Management (Appendix G)
- Chesapeake Bay Preservation Area (Appendix F)

The City continued to implement the Erosion and Stormwater Management Ordinance and Public Works Engineering Design Standards Manual (PWDSM) which include provisions more stringent than required by the state, to further control post-construction runoff from areas of new development and redevelopment.

The City provides additional controls to reduce the harmful effects from post-construction runoff, improve local water quality, and provide greater protection from flooding. City ordinances require that land-disturbing activities equal to or exceeding an area of 2,500 square feet comply with the erosion and sediment control requirements, including the development and implementation of an erosion and sediment control plan. This requirement is more stringent than

the 10,000-square-feet threshold required by the State for areas outside of the Chesapeake Bay Preservation Area. A construction site inspection photo is shown below.



As a designated Virginia Erosion and Stormwater Management Program (VESMP) authority, the City ensures that its program is managed by five certified administrators. The administrators implement the program through a Memorandum of Agreement, which outlines the coordinated implementation of the VESMP across relevant City departments to ensure consistency.

Program administrators are staffed in the following departments and divisions:

- Public Works Engineering (for public projects)
- Public Works Operations (for public projects)
- Planning Development Services Center (for private development and limited public projects)
- Planning Permits and Inspections (for private development construction)
- Public Utilities Engineering (for limited public projects)

Specific Reporting Requirements

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

During this permit year, 348 land-disturbing activities were approved by City program administrators. These activities equate to a total of 369 acres of disturbed land.

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

City staff performed 16,804 inspections and issued 35 notices of corrective action and 9 notices to comply; no stop-work orders were issued.

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.

The number of land-disturbing permits issued, inspections conducted, and enforcement actions taken by staff are included in the specific reporting requirements included above. A summary of the actions taken is as follows:

- Land-disturbing activities were approved.
- Inspections of land-disturbing activities were performed.
- Formal administrative enforcement actions were taken through notices to comply, and
- No civil or criminal enforcement actions were taken.

Program Evaluation

City staff administer an erosion and stormwater management program that is effective in establishing the means to reduce the actual and potential discharge of pollutants from construction sites. The City implements more stringent ordinances primarily related to the 2,500 square feet threshold for preparing stormwater management plans and the use of 120 percent of the Atlas 14 rainfall depth for flood protection analysis.

3. Retrofitting on Prior Developed Lands

This section documents the City's implementation of retrofitting on prior developed lands to meet the requirements of MS4 Permit Section I.B.2.b. Retrofitting refers to the installation of new stormwater management facilities to treat existing areas that were not treated during the initial development of the land. Retrofitting also refers to enhancements or modifications to existing facilities to improve their ability to treat stormwater runoff from land that has already been developed. Implementation is the beginning of project construction. This section includes a summary and status of projects that began construction during the reporting period.

Projects are used to meet this permit requirement and to support the requirements of the Chesapeake Bay TMDL Action Plan and the local TMDL Action Plans. A detailed list of stormwater quality improvement projects is included in Appendix B, and all stormwater management facilities are reported in the BMP Warehouse after construction is completed.

Bayville Lake Improvements

The Bayville Lake Water Quality Improvements project is located near Shore Drive upstream of Lake Joyce at Bayville Farms Park in the Lynnhaven River watershed. The project will modify an existing wet pond to improve treatment efficiency by adding enhancements to meet the requirements for a level 2 wet pond. These include the incorporation of wetland areas, the creation of pretreatment forebays, and the addition of an aeration system to the lake. Construction began in May 2026, and substantial completion is expected by May 2027. Photos of the project site are shown on the following page.





Oceana Gardens Constructed Wetlands

This project involves the installation of constructed wetlands in the Oceana Gardens neighborhood off Sykes Avenue near Virginia Beach Boulevard. Construction began in September 2025. The stormwater management facility includes a pretreatment forebay, two wetland cells, and native plants. The project will treat stormwater runoff from commercial development west of the project site and will reduce nutrients flowing into the Lynnhaven River. Images of construction activities are shown below.





Eastern Branch Elizabeth River Wetland and Floodplain Restoration

This project is part of the Stormwater Green Infrastructure Master Project. It includes shoreline restoration of tidal wetlands, floodplain restoration, and drainage improvements along the Elizabeth River adjacent Carolanne Farms Neighborhood Park and Arrowhead Elementary School. The proposed design features work together to restore the wetlands and natural channel sinuosity, promote healthy sediment distribution, and improve water quality. These natural interventions will also provide tangible benefits to the surrounding residential properties offering increased wildlife habitats, additional recreational opportunities, and educational partnerships and hands-on learning experiences with Arrowhead Elementary School and the various amenities distributed throughout the park. The aerial photos on the following page show the areas of the shoreline restoration associated with this project near the end of construction.





Specific Reporting Requirements

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

The projects that began construction this year are Bayville Park Lake Improvements, Oceana Gardens Constructed Wetland, and Eastern Branch Elizabeth River Wetland and Floodplain Restoration. Details are provided above for each of these projects.

Program Evaluation

Five permit-required retrofit projects have been completed during the term: Laurel Cove Park, Kemps River Crossing, Lynnhaven Park Constructed Wetland, Ashville Park Wet Pond, and Lynnhaven River Phase 1 Oyster Reef Restoration. Additional projects will be completed to support implementation of the Chesapeake Bay and Local TMDL Action Plans.

4. Roadways

This section documents the implementation of the MS4 Program roadway maintenance component for MS4 Permit Part I.B.2.c. City staff continue to operate and maintain roadways and parking lots in a manner that minimizes the discharge of pollutants. The database of city-maintained roadways is kept up to date.

Roadway Maintenance Pollution Control and Records

The *Stormwater Pollution Prevention Good Housekeeping Manual* includes best management practices and procedures to address road, street, and parking lot maintenance. This manual includes multiple pollution prevention best practices including material storage and handling, vehicle and equipment maintenance, snow and ice management, and outdoor washing activities. No revisions were made to the manual during the reporting year. Pollution prevention protocols are also incorporated into contract documents.

The City maintains a database of public roadways that includes street names. The City maintains GIS data for stormwater management facility drainage areas. Based on this data, 487 lane miles of publicly maintained roadways are treated by BMPs. The treated lane miles of roadway exclude

stormwater facilities that solely provide peak flow control. A street sweeping program is implemented to reduce sediment and debris along public roadways.

Deicing Materials and Storage

City staff use salt and brine as deicing materials for roadways and parking lots. Stockpiles of salt and sand are covered from precipitation until application. Brine is stored in a closed aboveground tank that is sealed from the elements with secondary containment around the base. Other good housekeeping and pollution prevention measures are employed to minimize potential stormwater pollution from the material storage sites.

The city does not apply deicing agents containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks, or other paved surfaces in accordance with Virginia Code § 3.2-3607.2 which prohibits the sale of deicing agents containing urea.

Specific Reporting Requirements

A description of the 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.

Both in-house crews and contractor support are used to sweep public roadways and parking lots. In-house crews target the oceanfront and Town Center areas, with seasonally dependent schedules. Contractors sweep the remaining public roadways on a schedule coordinated with staff. Roadways with and without curb and gutter are included in the program. The inventory of publicly maintained roadways includes all segments with and without curb and gutter. Lane miles are calculated by multiplying the total pavement width by the roadway segment length, with an assumed width of 12 feet per lane. City staff and contractors have swept 99 percent of the total inventory since January 26, 2024.

The table below includes a summary of the annual metrics with the percentage of roadways swept annually meeting the 20 percent minimum requirement. The roadway inventory status as of the beginning of the permit reporting year is a total of 4,497 lane miles.

Table 4-1. Annual Roadway Inventory and Sweeping Metrics

Period	Inventory	Total Swept	Percent Swept
FY24	4,466	3,875	87%
FY25	4,485	4,414	98%
FY26	4,497	4,477	99%

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 were made to the procedures this year.

Program Evaluation

Staff continue to follow protocols to minimize pollutant discharge in the operation and maintenance of public roadways and parking lots. Staff updated the GIS database of city-maintained roadways and the SWMF drainage area GIS database. The City has exceeded the 20% street cleaning requirement for the reporting year by sweeping 99% of roadways.

5. Pesticide, Herbicide, and Fertilizer Application

The permit requires careful management of how pollutants enter the stormwater system, including responsible use of pesticides, herbicides, and fertilizers on City property. The City intentionally applies these chemicals in a way that reduces their impact on local waterways. In addition, good housekeeping and pollution prevention methods are used during their application, storage, transport, and disposal. The City tracks the following acreages for city-owned properties:

- Where nutrients are applied and controlled using general city guidelines or procedures.
- Where nutrient management plans (NMPs) are required and implemented.
- For areas managed under Integrated Pest Management Plans.

A NMP is implemented for city-owned properties where nutrients are applied to a contiguous area greater than one acre. There are five city-owned properties covered by a NMP, which was developed by a certified nutrient management planner. There are five golf courses, four youth baseball fields, and one soccer complex owned by the City and leased to private operators that have implemented NMPs managed by their respective operators.

The City uses integrated mosquito management for mosquito control, also known as integrated pest management. The integrated mosquito management includes the use of two types of insecticides, larvicides and adulticides. Standard operating procedures are used to support environmentally friendly pest management strategies instead of insecticides when possible. These procedures are used on all lands managed by the City's Parks and Recreation department, roughly 13,000 acres. Chemicals are applied on an as needed basis, when other methods have not been successful in eliminating the nuisance pests.

Specific Reporting Requirements

Each annual report shall include the total acreage of permittee lands upon which nutrients are applied and controlled using general City guidelines or standard operating procedures; the acreage of permittee lands where turf and landscape nutrient management plans are required; and the acreage of permittee lands covered by current turf and landscape nutrient management plans. Each annual report shall include a list of all permittee lands where nutrients are applied to a contiguous area of more than one acre, including latitude, longitude, and approval date of the most recent nutrient management plan.

The total area managed under the Parks and Recreation nutrient management plan was reduced from about 39 acres in FY25 to about 25 acres this year. The City View Fields and Holland Road Annex were removed from the plan because they no longer receive fertilizer. Landstown High School Stadium was also removed because it was converted to artificial turf. The locations of city-owned properties where nutrients were applied to a contiguous area of more than one acre are included in the following table.

Table 5-1. City-owned properties where nutrients are applied.

Managed Area Identification	Area (acres)	Latitude	Longitude	NMP Approval
Boys Baseball of Lynnhaven	15.8	36.85316	-76.08574	6/25/2025
Cox High School Stadium Field	1.8	36.88728	-76.05408	8/15/2023
Great Neck Baseball League	11.8	36.88365	-76.05854	6/25/2025
Hampton Roads Soccer Complex	30.4	36.77325	-76.10732	7/1/2025
Heron Ridge Golf Club	139.7	36.73333	-76.03185	1/22/2024
Kempsville Borough Baseball Inc.	6.35	36.81202	-76.19701	2/28/2026
Kempsville Greens Golf Course	88.3	36.82010	-76.14858	6/1/2022
Princess Anne Athletic Complex Multi-Purpose	8.9	36.76664	-76.09514	8/15/2023
Princess Anne Athletic Complex Red Quad	6.0	36.76257	-76.09883	8/15/2023
Princess Anne Athletic Complex Green Quad	6.0	36.76292	-76.09591	8/15/2023
Princess Anne High School Stadium Field	1.9	36.84770	-76.12503	8/15/2023
Redwing Lake Golf Course	158.2	36.80183	-75.98534	6/1/2022
Stumpy Lake Golf Course	108.5	36.77293	-76.15977	10/15/2022
Virginia Beach Little League	15.1	36.77505	-75.98601	6/25/2025
Virginia Beach National Golf Club	143.1	36.75910	-76.07538	6/30/2025

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

As part of the City's mosquito management program, larvicides were applied over an eight-month period. Treatment areas ranged from 40 to 60 acres, with a total of 341 acres treated during this reporting period. Compared to the previous year, larvicide applications decreased primarily due to reduced standing water resulting from lower-than-average rainfall.

Adulticides were applied over a five-month period, with treatment areas ranging from 4,000 to 7,000 acres and totaling 60,130 acres treated. The reduction in adulticide applications from the previous reporting period was based on surveillance findings.

Program Evaluation

Pollution prevention measures are implemented in the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers. Nutrient management plans are implemented for all city-owned property where nutrients are applied to a contiguous area exceeding one acre. The City continues to implement a mosquito management program using a targeted approach to help minimize unnecessary environmental impacts and reduce the risk of developing pesticide resistance.

6. Illicit Discharges and Improper Disposal

The City implements programs to address illicit discharges into the public stormwater system, floatable debris reduction and monitoring, sanitary sewer inspection, and household hazardous waste collection. City ordinances prohibit dumping of used motor vehicle fluid, household hazardous waste, sanitary sewage, grass clippings, leaf litter, animal waste, and other non-stormwater discharges into the stormwater system.

Illicit Discharge and Improper Disposal Program

The following methods are available to report potential illicit discharges:

- VB311 or 757-385-1470
- VB Connect mobile application
- Website Service Request Form vb311.virginiabeach.gov
- Email pwclrks@vbgov.com or vbstormwater@vbgov.com

When a report of a potential illicit discharge is received, City staff review and confirm the incident, identify the source and type of discharge, and provide educational materials to residents and businesses to increase awareness about stormwater pollution. Enforcement actions are taken when necessary to ensure compliance. The City aims to resolve illicit discharges within 30 days of discovery. If a discharge cannot be eliminated within 30 days, staff track follow-up activities and coordinate efforts, establishing a timeline to resolve the issue. Illicit discharges were identified and resolved within 30 days; details are in Appendix C.

If the source of the discharge is not immediately apparent, City staff conduct additional investigations to locate the source or confirm that the discharge has stopped. These investigations may include dye or smoke testing to help pinpoint the origin.

Program coordination occurs through the Water Pollution Investigation Team, which includes representatives from Public Works, Public Utilities, Housing and Neighborhood Preservation, the Fire Department, and the City Attorney's office. The team holds routine meetings to address illicit discharge and spill response issues, identify responsible parties, provide training, facilitate reporting, and implement enforcement measures.

The City implements a program to locate and eliminate illicit discharges into the stormwater system. This program is further described in section 7. Dry Weather Screening Program.

Waste Collection Programs

The Resource Recovery Center at the City Landfill provides for disposal of used motor vehicle fluids for recycling. It includes a Household Hazardous Waste Collection Facility for residents to safely dispose of household hazardous waste free of charge. Household hazardous waste collection events were promoted as discussed in section 11. Public Education/Participation.

Sanitary Sewer Inspections

The City continues to conduct Sanitary Sewer Evaluation Studies in accordance with the Virginia DEQ-approved Management, Operations, and Maintenance Program. As part of the program, areas are prioritized for the inspection of sanitary sewer pipe segments. Inspections of sanitary sewer pipes are conducted using closed circuit television video and acoustic testing is done using a sewer line rapid assessment tool. The findings from the inspections are used to determine whether any additional inspections, including smoke testing and flow monitoring, or repairs are needed for that sanitary sewer pipe segment.

Floatables Reduction Program

The City implements a Floatables Reduction Program to reduce the discharge of floatables to local waterways. The Floatables Reduction Program includes a myriad of programs that target floatables and trash reduction through prevention and response activities. Staff conduct floatables surveys at selected sites that capture a variety of the Floatables Reduction Program activities. The City installed automatic retractable inlet screens at twenty-one inlets in the Town Center area as part of a pilot project to prevent trash from entering the stormwater system.

The City engaged volunteers to conduct clean ups throughout the City, continued its mowing with advanced litter pick up efforts, continued implementing its Adopt-A program, and continued various other activities to reduce the discharge of floatables.



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.

Five illicit discharges to the public stormwater system were identified. Information on the source of the discharge, a description of follow-up activities, the status of the discharge, and the discharge elimination date are provided in Appendix C.

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

The City is required to inspect a minimum of 100,000 linear feet (LF) of sanitary sewer annually and 730,000 LF of sanitary sewer by the end of the permit term. During this reporting year, 462,300 LF of sanitary sewer were inspected. During the permit's reporting term, 1,435,300 LF of sanitary sewer has been inspected.

Program Evaluation

City staff implement an effective illicit discharge response and reporting program with established procedures for reporting and discharge verification. All illicit discharges reported have been resolved within 30 days.

The City's Landfill Resource and Recovery Center provides a regular reliable means of disposal of household hazardous waste. The required sanitary sewer inspections have been exceeded.

7. Dry Weather Screening Program

This section provides an overview of the Dry Weather Screening (DWS) program, which is required by Section I.B.2.I of the MS4 Permit. The DWS program is designed to detect and address potential illicit connections and unauthorized discharges into the public stormwater system. It records all actions taken to eliminate these discharges, ensuring transparency and accountability. The City has implemented an enhanced DWS program that goes beyond permit requirements by inspecting additional stations. These inspections are conducted not only to meet MS4 Permit Section I.B.2.I, but also to support the Bacteria TMDL Action Plan and to fulfill high-priority municipal facility requirements outlined in the MS4 Permit. This expanded approach helps protect water quality and public health by proactively identifying and resolving issues.

Selection of Stations for Illicit Connections and Unauthorized Discharges

The site selection included 50 stations located in an area of concern. Per the MS4 permit, areas of concern include commercial car washes, car dealerships, pet kennels, restaurants, areas with a history of complaints, and areas upstream of sensitive ecosystems. Eight stations screened were at high-priority municipal facilities that have SWPPPs. The locations were at the Public Works Fleet Management and Public Utilities Yards at Dam Neck Road.

As part of the enhanced program, 50 additional stations were selected to support implementation of the Bacteria TMDL Action Plan. Stations were identified in areas that have a higher potential for human bacterial sources that pose harmful human health risks within watersheds subject to a Bacteria TMDL. The stations were located in the Upper West Neck Creek watershed downstream of industrial areas, commercial areas, and included areas with private or clay sewer pipes or potential conflict manholes due to risk potential associated with these areas. Some stations were selected upstream of the first available station to reduce the likelihood of other facilities in the same drainage area influencing the screening results.

Field Investigation

Field investigation includes both a visual assessment and a chemical analysis of any dry weather flow present at the time of inspection. Odor, color, floatables debris, sheen, suds, deposits, stains, dead vegetation, and benthic growth were used as physical indicators for detecting potential illicit discharges. When flow was present, grab samples were tested for pH, ammonia, chlorine, copper, fluoride, potassium, turbidity, temperature, and human source bacteria. When the results of the in-field chemical analysis exceeded predetermined thresholds, one or more physical indicators were detected, or elevated levels of human source bacteria were found, follow-up investigations were performed.

Results

Of 108 stations inspected, 37 had flow; 7 required additional investigation; none were confirmed illicit. During this year, 108 stations were inspected. Out of these, 37 stations had water flowing at the time of inspection. Seven of those stations needed additional follow-up investigations. After looking into each case, it was confirmed that none of the suspicious indicators were caused by illegal discharges, or the potential sources were no longer active.

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 because of the dry weather screening. 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.

There were no illicit discharges identified this year through the 108 stations inspected. The list of locations inspected and whether flow was present is provided in Appendix G. For the seven locations that required follow-up actions due to exceedances identified, additional details are provided in Appendix H.

Each station condition is assessed for structural and operational issues during dry weather screening investigations. There were 50 structures with identified issues that were reported to the maintenance team for evaluation. Maintenance tasks are created and tracked in the work management system.

Program Evaluation

The City has committed significant resources to developing and implementing an effective enhanced DWS program. The enhanced efforts to screen an additional 58 stations to target areas upstream of outfalls and screen for dry weather flows at upstream stations has helped to make the DWS program more effective in identifying illicit connections and unauthorized discharges to the public stormwater system.

8. Spill Prevention and Response

The permit requires that the City Fire Department and other City departments continue to implement a program to prevent, contain, and respond to spills that may discharge into the City's stormwater system. Several programs are implemented to prevent, eliminate, and reduce the potential for spills. Spill prevention information is included in the spill response training of emergency response personnel. The Stormwater Pollution Prevention Good Housekeeping Manual includes considerations to minimize sources of potential spills and clean up procedures. Stormwater Pollution Prevention Plans (SWPPPs) have been developed for high-priority facilities with high potential for pollutant runoff, which include protocols to minimize spill potential from specific sources at each of these facilities.

City staff in departments such as Public Works, Public Utilities, and Fire Department as well as contractors are responsible for the containment and response to reportable spills and implementing clean-up efforts. All staff coordinates as necessary to ensure that spills are responded to quickly when they occur to minimize pollutants from entering the City's stormwater system and local waterways. The City's Water Pollution Investigation Team met routinely to coordinate between departments to enhance the City's response to water pollution as mentioned in 6. Illicit Discharge and Improper Disposal.

Procedures are used for reportable spills, which adhere to the spill-reporting criteria described in MS4 Permit Parts III.G and III.H. These spills are reported to DEQ by verbal or online notification within 24 hours of knowledge of the spill and a written notification within five days of the initial notification. Reportable spills are tracked using several different systems. The Public Works work management system, Cartegraph, includes spills that have been reported, responded to, and addressed by Public Works. Sanitary sewer spills from the City's sanitary sewer and the Hampton Roads Sanitation District (HRSD) regional system use the regional Sanitary Sewer Overflow Reporting System (SSORS) to submit the initial and final reports to Virginia DEQ and the Virginia Department of Health. DEQ's online Pollution Report system is also monitored regularly to identify any private reported spills that may impact the stormwater system.

Specific Reporting Requirements

The city provides the following means to report potential illicit discharges and spills:

- Call VB311 or 757-385-1470
- Website Service Request Form vb311.virginiabeach.gov
- Emailing PWclrks@vbgov.com or VBstormwater@vbgov.com
- VB Connect mobile application

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.

Per Part III.G and III.H, the City reported 23 spills requiring DEQ notification; no unusual or extraordinary discharges occurred. Per the MS4 Permit, spills requiring notification to the Virginia DEQ include discharges of federally established reportable quantities, and discharges of sewage, industrial waste, hazardous substance, or oils that enter or may be expected to enter surface waters. The list of reportable spills with related information is summarized in Appendix D.

Per MS4 Permit Part III.H, spills requiring notification to the Virginia DEQ include any extraordinary or unusual discharges that could be expected to enter surface waters. There were no known spills meeting these criteria this year.

Program Evaluation

Staff continue to implement the spill control and response program to minimize spills from entering the public stormwater system. In the event a spill occurs, staff respond quickly and effectively in accordance with their spill response program to contain and clean up the spill. The spill response program includes reporting requirements, material handling procedures, steps to

identify and characterize spills, spill containment, storage and disposal activities, and documentation and follow-up procedures.

9. Industrial and High-Risk Runoff

This section documents the implementation of the requirements for the management of industrial and high-risk runoff facilities (IHRR) included in MS4 Permit Section I.B.2.g. The City implements a program to identify and control stormwater pollutants from industrial and/or commercial sites that have the potential to contribute to significant pollutant loading to the stormwater system. An IHRR list is maintained and updated annually.

Although it is not required by the permit, the City includes six VPDES permitted facilities with historical pollutant exceedances in the IHRR list. Additionally, City staff reviewed and tracked Discharge Monitoring Reports (DMRs) received via email to vbstormwater@vbgov.com from VPDES permitted facilities.

This year, Dobbs Firewood was removed from the list since it's no longer in business. During the permit year, City staff inspected Arbor Tree Care and North Landing Firewood to determine whether they should be added to the IHRR list. Neither facility was found to have the potential to contribute significant pollutant loading to the stormwater system. These inspections followed written procedures for inspecting points of connection or outfalls. The process includes facility notification, assessment of connection points to the City's stormwater system, evaluation of pollution potential to the stormwater system, and site recommendations for best management practices to prevent stormwater pollution. Inspections are scheduled about every five years.

Specific Reporting Requirements

Each 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 report on implementation of the inspection schedule and include a list of facilities and/or facility outfalls or points of connection inspected during the reporting period.

The list of high-risk industrial and commercial dischargers is included in Appendix E.

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

City staff evaluate the findings from the inspections and review of DMRs to determine which facilities will be referred to the Virginia DEQ. Facilities are referred to the Virginia DEQ for

compliance review under the Virginia State Water Control Law. No facilities were referred to Virginia DEQ during this reporting period.

Program Evaluation

The program is effective in identifying stormwater pollutant discharges from the industrial and/or commercial facilities. City staff identify and evaluate facilities that may have a high risk of contributing significant pollutant loading to the public stormwater system.

10. Stormwater Infrastructure Management

This section describes how the City inspects and maintains both public and private SWMFs, as well as public stormwater infrastructure. It also outlines the process used to identify, map, and document the MS4 service area and its outfalls.

Public Stormwater Infrastructure System Inspection and Maintenance

City staff actively manage and maintain the public stormwater infrastructure, regularly updating the stormwater system inventory and conducting inspections. All stormwater infrastructure and stormwater management facility asset information is organized and tracked using a GIS database. As part of ongoing maintenance, new and missing stormwater system assets are added, and asset data for both stormwater infrastructure and SWMFs are updated to ensure accuracy and completeness. A summary of the stormwater infrastructure assets operated by the City as of the beginning of this reporting period is provided below.

Table 10-1. Public Stormwater Infrastructure Assets

Asset Type	Total
Storm Inlet	44,873 EA
Storm Manhole	10,316 EA
Storm Pipe	6,139,039 LF
Ditch	4,154,789 LF
Stormwater Pump Station	18 EA
Seawall (Boardwalk)	14,132 LF
Valves (Tide/J/Check)	47 EA
Gates (Tide/Sluice)	49 EA
Impoundments (Volume Control Facilities)	315 EA
SWMFs	704 EA

The City documents all stormwater infrastructure inspection and maintenance activities in a dedicated work management system. The City's inspection program is designed to ensure that at least 15 percent of each type of infrastructure asset is inspected annually. Inspections are scheduled and conducted routinely, including through infrastructure verification, responses to resident service requests, neighborhood rehabilitation projects, dry weather screenings, and defect surety assessments. Maintenance actions are planned based on inspection findings, and all records are maintained in the work management system for transparency and accountability.

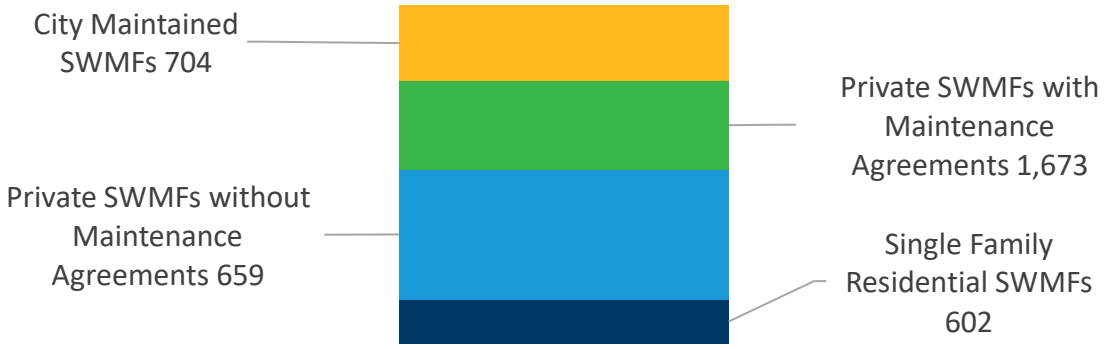
Stormwater Management Facility Inspections and Maintenance

City staff inspect SWMFs that are owned or maintained by the City in accordance with the *SWMF Inspection and Maintenance Manual*. These facilities are scheduled for inspection every year, and staff evaluate their condition during each inspection. When an inspection identifies a maintenance or repair need, staff create a task in the City's work management system, Cartegraph. The system maintains complete inspection and maintenance records, including documentation of routine activities such as vegetation clearing and mowing.

Databases of all known public and private SWMFs are maintained in the City's GIS and work management system. GIS stores asset and location information, while the work management system tracks inspections and maintenance activities. When new SWMFs are constructed and accepted, their information is entered into the appropriate database. During this year, 126 SWMFs and volume control facilities were added to the database the breakdown of these assets is listed below.

- 99 new SWMFs
- 9 new privately owned volume control facilities with maintenance agreements.
- 6 new single-family residential SWMFs
- 12 single-family residential SWMFs, constructed in the previous year

There are 3,638 SWMFs as of the beginning of the reporting period and the breakdown by category of SWMFs which excludes volume control facilities is shown in the following figure.



City-maintained Stormwater Management Facilities

Staff continued inspecting the publicly maintained SWMFs and 100 percent were inspected this year. The City has not chosen to implement an alternative schedule to inspect these SWMFs based on risk assessment at this time. Based on the results of the inspections, maintenance work orders are created in the work management system.

Privately Maintained Stormwater Management Facilities with Maintenance Agreements

City staff perform inspections of private SWMF facilities with maintenance agreements once every five years to ensure that these facilities are being properly maintained. The program

includes a series of inspections and notifications to property owners to perform maintenance followed by legal action if necessary. These inspections are tracked in the work management system.

Of the 1,673 SWMFs with maintenance agreements, 98 percent of those have had an inspection performed within the past 5 years. Additionally, there are 51 volume control facilities with maintenance agreements. These facilities are for impoundment only and nutrient credits were purchased to meet pollution reduction requirements. These are also inspected routinely by the City for compliance with maintenance agreements.

Privately Maintained Stormwater Management Facilities without Maintenance Agreements

The City has developed a program to encourage proper maintenance of privately owned SWMFs that do not have formal maintenance agreements. This program centers on educating property owners about maintenance needs and how their actions help protect downstream waterways and offering incentives through the Stormwater Utility Fee Adjustment Program, to provide discounts on stormwater utility bills for eligible properties. As part of this approach, at least five percent of these facilities are inspected each year. This year, there are 659 non-residential private SWMFs without maintenance agreements, the inspection goal was exceeded by inspecting 14 percent of facilities without maintenance agreements.

Single Family Residential Stormwater Management Facilities

The City implements a strategy to ensure maintenance of these facilities. These facilities are not required to have maintenance agreements nor be inspected by the City. The strategy promotes long-term maintenance through education of the property owner. Following asset data collection, a Facility Maintenance Fact Sheet for their specific type of facility was mailed to property owners to educate them about the type of stormwater facility on their property and how to perform maintenance. The maintenance fact sheets are also available on the website.

MS4 Outfall Mapping and MS4 Service Area Delineation

The MS4 service area delineation was last updated in 2022. The city continued to update MS4 outfalls and associated attributes which are included in the following table.

Table 10-2. MS4 outfalls by watershed

Watershed	MS4 Outfalls
Chesapeake Bay	2,810
Atlantic Ocean	178
Southern Rivers	1,850
Total	4,838

Specific Reporting Requirements

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.

The City's storm drainage structure and open conveyance asset inventory as of the beginning of the reporting period and details of inspections conducted during this year are identified in the summary below. Inventory counts at the beginning of the permit year are used to evaluate the minimum 15 percent inspection requirement. Maintenance and repairs are documented in the work management system.

Table 10-3. Summary of public stormwater infrastructure inspections

Asset Type	Total Operated	Total Inspected	Percent Inspected
Drainage Structures EA	55,189	14,001	25%
Pipes LF	6,139,039	1,035,814	17%
Ditches (LF)	4,154,789	1,083,448	26%

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

The City performed inspections of privately maintained SWMFs using Virginia DEQ-certified inspectors. When a facility was found to require maintenance, the City issued non-compliance notifications to the owners. After initial notification, a follow-up inspection was conducted to confirm whether the necessary work had been completed. If maintenance or repairs were still outstanding, the City carried out a site investigation and engineering evaluation to assess the facility's design functionality. The City then worked with the facility owner to explain the required repairs, removed any stormwater utility fee adjustments when applicable, and issued additional non-compliance notifications as needed. Another site visit was performed to verify completion of maintenance or repairs. If the owner continued to fail to address the issues, staff would consider further enforcement actions, including possible legal measures. However, legal action was not needed during this permit year.

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 City performed inspections of 255 privately maintained SWMFs with maintenance agreements and 71 privately maintained SWMFs without maintenance agreements and issued non-compliance letters to address needed maintenance or repairs of the facilities.

The MS4 service area map including outfalls and information included in Part I.B.2.h)3) shall be submitted no later than 12 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).

A GIS shapefile containing the required data was provided to DEQ on January 24, 2025. Per DEQ's request, a revised geodatabase was submitted on July 16, 2025.

Program Evaluation

The City continues to update its stormwater system inventory and implement effective programs to inspect and maintain its stormwater system. The City inspected the public stormwater system assets, identified maintenance needs, and performed maintenance. There were improvements made this year to the scheduling of SWMF inspections that improved program performance. City staff performed inspections of private SWMFs to ensure maintenance is performed in accordance with maintenance agreements.

11. DEQ BMP Warehouse Reporting

This section documents the implementation of reporting through the DEQ BMP Warehouse, an online reporting system managed by DEQ. A best management practice or BMP is a practice that achieves quantifiable nitrogen, phosphorus, or sediment reductions. Types of BMPs include stormwater management facilities, ecosystem restoration projects, annual practices, and other practices approved by DEQ. Facilities that solely provide peak flow control that the City classifies as volume control facilities are excluded from the reporting requirement and are not included.

A database of all known City-maintained and privately maintained SWMFs is reported through the BMP Warehouse. During this reporting year, staff continued to update their asset database of all known public and private facilities. The City requested to opt out of the automatic transfer by DEQ of BMPs reported through the DEQ Construction Stormwater Database since City asset IDs are not captured through that process and are difficult to associate with the correct City SWMF. The request was approved by DEQ. BMP attributes required by the permit are maintained in the City's GIS and work management systems.

Specific Reporting Requirements

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.

There were 99 additional BMPs reported to the warehouse this year. All known public and private BMPs have been uploaded to the warehouse. The most current inspection dates for all BMPs that have been re-inspected were uploaded to the DEQ BMP Warehouse.

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 post-development 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.

The DEQ BMP Warehouse template was populated with the required data for each BMP. Stormwater management facilities installed in association with land disturbing activities with less than one acre of land disturbance are included in the DEQ BMP Warehouse upload.

The permittee shall use the DEQ BMP Warehouse to report BMPs that were not reported in accordance with Part II.B.1 or B.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.

BMPs implemented as part of a TMDL action plan are included in the DEQ BMP Warehouse upload.

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.

All known BMPs that achieve quantifiable nitrogen, phosphorus, or total suspended solids reductions are reported in the DEQ BMP Warehouse upload.

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.

The most recent inspection date for each BMP has been reported through the DEQ BMP Warehouse.

12. City Facilities

This section documents the operations and maintenance of facilities owned and operated by the City and schools as required by MS4 Permit Section I.B.2.i. The City developed a *Stormwater Pollution Prevention Good Housekeeping Manual* that includes procedures to implement best management practices to prevent pollutants from entering the stormwater system.

The City prevents wash water from vehicles from entering the stormwater system by using dedicated wash racks that discharge to the sanitary sewer collection system. One vehicle wash area, located at the Parks & Recreation Landscape Management Yard and used for washing mowing equipment, is permitted under a VPDES vehicle wash permit and is designed to discharge to the stormwater system. However, due to ongoing site improvements, the washing equipment has not been installed, and the wash rack was not used this year.

Storm drain markers have been installed at 169 high-priority municipal facilities and city-owned properties with greater than two acres of impervious surface. About 3,800 storm drain markers were installed at these locations. No new facilities were constructed this year that meet the requirement to have markers installed.

The City maintains a list of high-priority municipal facilities owned and operated by the City that actively engage in the following activities:

- composting
- equipment storage, cleaning, and maintenance
- recycling
- anti-icing and de-icing storage, handling, and transfer
- long-term bulk materials storage
- solid waste handling and transfer
- pesticide, herbicide, and fertilizer storage
- vehicle washing, maintenance, salvage
- equipment storage, cleaning, and maintenance

The City has identified 11 high-priority municipal facilities that have a significant risk of discharging pollutants. These facilities do not currently hold a Virginia Pollutant Discharge Elimination System (VPDES) industrial stormwater permit. However, the City's Landfill does have a VPDES industrial discharge permit and follows a SWPPP. For all high-priority facilities, the City develops and implements SWPPPs, which outline best management practices and procedures to prevent stormwater pollution. These plans include regular maintenance and inspections, and

both the SWPPPs and inspection forms are kept on-site at each facility. Each SWPPP is reviewed annually and updated as necessary to ensure continued compliance and effectiveness.

During this permit year, the Parks and Recreation Lynnhaven Yard relocated from 2150 Lynnhaven Parkway to 4141 Dam Neck Road. The City removed Lynnhaven Yard from its high-priority facility list, added the Landscape Management Yard, and implemented a new SWPPP for the relocated yard.

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.i)3)(a).

High Priority municipal - no VPDES permit

- Building 8 – Sheriff's Workforce: 2565 Glebe Road
- Building 9 – Building Maintenance: 2569 George Mason Drive
- Glenwood Bus Garage Campus: 2201 Round Hill Drive
- Helicopter Shops: 2685 Leroy Road
- Heron Ridge Golf Course: 2973 Heron Ridge Drive
- Kempsville Greens Golf Course: 4840 Princess Anne Road
- Oceana School Bus Overflow Parking Lot Campus, 1612 New York Avenue
- Police Special Ops – Evidence Storage: 2667 Leroy Road
- Public Works Operations - Potter's Pit: 2100 Block, Potters Road
- Princess Anne Athletic Complex: 4001 Dam Neck Road
- Public Works Dredge Operations: 1004 Bells Road
- Red Wing Lake Golf Course: 1144 Prosperity Road
- Stumpy Lake Golf Course: 4797 Indian River Road
- Technical & Career Education Center Campus: 2925 North Landing Road
- Transportation Services Campus: 1677 Harpers Road
- Virginia Beach National Golf Course: 2500 Tournament Drive

High Potential to Discharge - SWPPP in place

- Parks and Recreation Landscape Management Yard: 4141 Dam Neck Road
- Public Utilities Operations Dam Neck Yard: 3500 Dam Neck Road
- Public Works Fleet Management Dam Neck: 3556 Dam Neck Road
- Public Works Fleet Management Holland Road: 3024 Holland Road
- Public Works Fleet Management Leroy Road: 2633 Leroy Road
- Public Works Operations/Parks and Recreation Euclid Yard: 100 Southgate Avenue
- Public Works Operations Beach Operations Yard: 1401 Parks Avenue
- Public Works Operations Dam Neck Yard: 3556 Dam Neck Road
- Public Works Operations Oceana Yard: 156 Oceana Boulevard
- Public Works Operations Pungo Yard: 1848 Pleasant Ridge Road
- Public Works Waste Management Division Yard: 3024 Holland Road

- Public Works Waste Management Landfill II: 1989 Jake Sears Road

Program Evaluation

The City continues to implement the procedures documented in the *Stormwater Pollution Prevention Good Housekeeping Manual*. Markers have been placed on storm drains located at high-priority municipal facilities and facilities owned by the City with more than two acres of impervious surface. The City ensures that SWPPPs are implemented through routine inspections of each facility.

13. Public Education/Participation

This section documents the implementation of public education and participation requirements defined in MS4 Permit Section I.B.2.j. The City implements an outreach program to raise public awareness and knowledge of stormwater pollution for various target audiences. The goal of the program is to change behavior so that it results in pollutant reductions and improved stormwater quality.

In addition to local efforts, the City partners with 16 other regional municipalities to form a program askHRgreen.org - Environmental Resource for Hampton Roads, Virginia through the HRPDC. This regional collaborative effort shares pollution prevention messages throughout the Hampton Roads area. The HRPDC prepares an annual report reflecting the regional outreach. The City included the *FY26 askHRgreen Annual Report* with this annual report submittal. City staff participate in the askHRgreen Environmental Education Planning Committees.

The City contracts with two local watershed organizations, Elizabeth River Project and Lynnhaven River NOW. Throughout the year, staff from the City and its partner organizations attend many public events, talk with attendees about stormwater issues, and promote stormwater public education through distribution of educational outreach materials. The City's *Pipeline* newsletter included in utility bills contained stormwater educational information such as rain barrels and proper pool discharging methods, reaching more than 137,000 residents through each publication.

A summary of the activities related to the ten focus areas in the MS4 permit is provided in the following subsections. Since many public outreach activities address more than one focus area, the outreach activities are grouped according to the focus area the activity most aligns with.

Illicit Discharges or Improper Disposal

The following activities were conducted to promote, publicize, and facilitate public reporting of the presence of illicit discharges or improper disposal of materials into the public stormwater system:

- Adopt-a-Drain Program: The City implemented this program through an interactive website drains.vbgov.com, where volunteers adopt one or more storm drains and commit to a minimum of six cleanups per year. The Adopt-a-Drain program, Adopt-a-Drain | City of Virginia Beach, increases public awareness of stormwater, types of materials that should not

go down a storm drain, and about the ways to report stormwater pollution. About 1,380 drains were adopted at the end of this reporting period.

- Reporting and Education for Illicit Discharges: To promote reporting, the City publicized methods of reporting through virginiabeach.gov and askHRgreen.org. The City continued its targeted educational response to intermittent discharges, like pool discharge, litter, grass clippings, leaves, vehicle fluids, and pet waste dumping.
- Storm Drain Marking Program: The City continued to promote and administer this program. Over 9,000 drains have been marked.

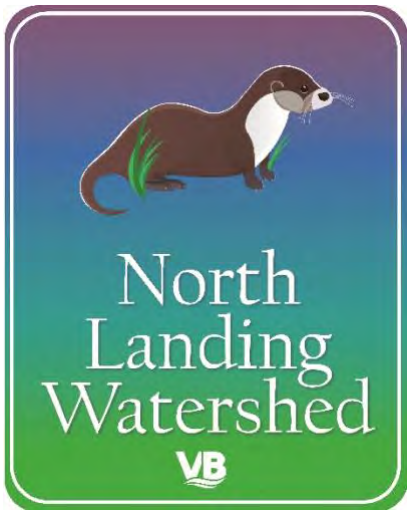
Individual and Group Involvement in Local Water Quality Improvement Initiatives

The City conducted activities to promote individual and group involvement in local water quality improvement initiatives. Volunteer activities were promoted by City staff, local and regional partnerships through websites, newsletters, and social media. These included cleanups, stewardship programs, bird and plant walks, training on sustainable yards, training on water quality testing, and meetings on stormwater runoff.

- Adopt-a-Programs and Various Clean-Up Events: This program encourages residents and organizations to adopt a location, conduct at least six cleanups per year for two years, and report each clean-up activity. The City supplies materials and posts a sign with the name of the adopter at the location.

  During this year, we hosted 10 Stream Teams of the Owl Creek watershed, Notable Tree Programs, and multiple bird and nature walks for the Winter Wildlife Festival. We also hosted 8 large scale clean ups in addition to 68 targeted cleanups with 1,328 volunteers and 24,485 pounds of litter collected. This year the Adopt-a-Program volunteers removed 21,829 pounds of litter during 692 clean-ups. In total, we had participation by 2,557 volunteers who removed 46,315 pounds of litter during 760 clean-ups.

  Watershed Awareness Program: The City installed six new watershed awareness signs this permit year and maintains a total of 100 signs in the Lynnhaven River, Elizabeth River, North Landing River, and Back Bay watersheds. Based on traffic count data, impressions have been made on about 1,033,400 residents and visitors.



- Litter Clean-up Supply Check-Out Program: The City implements a program to make litter clean-up supplies available for check-out through the libraries.
- Virginia Aquarium and Marine Science Center Education and Volunteer Monitoring: The City's Aquarium educated over 625,000 visitors through a permanent interactive exhibit on stormwater quality in the Chesapeake Bay Gallery. The Aquarium hosted summer camps for children from pre-k to 12th grade, teaching them about water quality and conservation. Aquarium staff perform lab analysis of water quality samples collected by volunteer organizations. The water quality lab also accepts water samples from residents through the Citizen Science program. This summer, through the Watershed Warriors program, volunteers in the Aquarium's lab guided guests in testing water samples from Owls Creek and educated visitors on water quality.
- Residential Environmental Home Programs: The City promoted three residential environmental home programs: Bay Star Homes coordinated by the City with support from askHRgreen, River Star Homes coordinated by Elizabeth River Project, and Pearl Homes coordinated by Lynnhaven River NOW. Residents commit to implementing voluntary stormwater management techniques on their private properties, including activities such as proper disposal of pet waste, reducing use of lawn fertilizers, ensuring only rain goes down their storm drains, and refraining from feeding ducks and geese on their properties.

Public and Private Golf Courses

The City conducted outreach to all public and private golf courses to ensure they had information on resources and training for implementation of integrated management practice plans and techniques to reduce runoff of fertilizer and pesticides. Per Virginia law, all golf courses were required to submit a certified NMP by July 1, 2017. City staff conducted a survey that determined golf course managers didn't need additional support on implementation. Additional resources are provided for golf course managers at Good to Do | City of Virginia Beach.

Used Oil and Household Hazardous Waste

The City continued to use the website at Household Hazardous Waste | City of Virginia Beach to publicize the City's Household Hazardous Waste (HHW) Collection Facility as part of the Resource Recovery Center, which collects used oil and HHW. The City publicized other events throughout the year where HHW was collected on Facebook and regionally on askHRgreen.org. The facility collects appliances containing freon gas, automotive products, batteries, cleaning products, indoor pesticides, outdoor lawn and garden products, mercury, other flammable products, and workshop/painting supplies. The Resource Recovery Center | City of Virginia Beach accepts items for recycling which include concrete, brick, stone, cooking grease and oil, electronics, metals, appliances, equipment, brush and tree branches, oyster shells, porcelain, tires, and wooden pallets. A total of 360 tons of metal, 119 tons of tires, 122 tons of used motor oil and filters, 21 tons of antifreeze, 15 tons of used cooking oil, and 183 tons of miscellaneous HHW were collected.

Pet Waste and Household Yard Waste

The City conducted activities to promote and publicize the proper disposal of pet waste and household yard waste. An advertising campaign through askHRgreen was implemented describing the effect of pet waste on local water quality and reminding residents to clean up pet waste. It included social media (Facebook, Twitter, and Instagram) ads, newsletter articles, promotional items and promotions for the pet waste station grant program. An additional Fall Cleanup advertising campaign through AskHRgreen was implemented between October and November of 2025 and encouraged yard waste cleanup with residents such as keeping leaves, grass clippings and other yard debris out of streets and storm drains. The campaign was promoted on the askHRgreen website and generated regional awareness using advertising on social media (480,983 impressions) and radio (564,700 impressions).

The City conducted targeted outreach to promote proper pet waste disposal through week-long displays at nine public libraries and reached about 540 residents. The City conducted targeted outreach to pet owners through the Virginia Beach Animal Care and Adoption Center and other local pet facilities through distribution of educational materials and giveaways about proper pet waste disposal.

Pet Waste Stations: The City distributed seven pet waste stations through a grant program this year. These stations are provided at no cost and maintained by the residents and business managers. There have been 122 pet waste stations installed through this grant program. There are 112 City-maintained pet waste disposal stations at 42 locations, primarily parks and trails.

- Yard Waste Collection Program: The City continued to use virginiabeach.gov and Facebook, to publicize the weekly residential yard waste collection program and provide details on acceptable materials and bagging requirements. This year, the city collected about 15,000 tons of yard waste through curbside collection.

Litter Prevention

The City actively promotes litter prevention by sharing information and resources on both the City website and askHRgreen.org. This year, as part of our outreach efforts, reusable shopping bags were distributed at nine public libraries, reaching 900 residents. The City also implements specialized programs to reduce litter, such as the Cigarette Waste Receptacle and Fishing Line Collection Station initiatives. In this fiscal year, two additional cigarette waste receptacles were installed at local businesses through a grant from HRPDC. Currently, the City maintains 67 cigarette waste receptacles at 19 locations and 29 fishing line collection stations at 21 waterway access sites. As a result of these programs, 270 pounds of monofilament fishing line and 24 pounds of cigarette butts were properly collected and recycled, helping to keep our public spaces and waterways clean.

Residential Car Washing

The City promoted and publicized methods for residential car washing that minimize water quality impacts during outreach events. The City also provides a link to EPA-approved soaps on the City stormwater website, at Get Involved | City of Virginia Beach. Fundraising Carwash Kits are made available for check-out and promoted on the website. School clubs and teams are encouraged to use these kits to divert carwash water away from storm drains.

Pesticides, Herbicides, and Fertilizers

The City conducted educational outreach to promote and publicize nutrient management, soil testing, proper use, application, and disposal of pesticides, herbicides, and fertilizers. The City's Landfill & Resource Recovery Center | City of Virginia Beach is promoted on the website for the disposal of pesticides, herbicides, and fertilizers. Information about the proper use and storage of pesticides, herbicides, and fertilizers is also available on askHRgreen.org - Environmental Resource for Hampton Roads, Virginia.

Voluntary Stormwater Management Techniques and/or Retrofits

The City encourages private property owners to implement voluntary stormwater management practices. Cost share funding for BMP implementation is provided for the Virginia Beach Conservation Assistance Program (VBCAP), Lynnhaven River NOW, and Elizabeth River Project.

The Virginia Beach Extension Master Gardeners Water Stewards continued their Rain Barrel Workshop series held at the City's Farmer's Market Facility. This Extension Master Gardener Program is supported by both the Virginia Cooperative Extension and the City of Virginia Beach.

Groups with Significant Stormwater Impacts

To target strategies toward local groups of commercial, industrial, and institutional entities likely to have significant stormwater impacts, the askHRgreen regional Bay Star Business program was leveraged to outreach to businesses. Educational materials are provided online targeting automotive industries, pet care industries, and landscaping companies. Twenty-two Virginia Beach businesses participate in the Bay Star Business program.

Public Education/Participation Posting Requirements

The MS4 permit, annual reports, and Program Plan are available at Stormwater Regulations | City of Virginia Beach.

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.

A summary of the events and individuals reached is included in Appendix F. The program evaluation is included after the specific reporting requirements in this section.

Each annual report shall provide a summary of voluntary retrofits completed on private property used to demonstrate pollutant reduction requirements.

Voluntary stormwater management practices are not being used to meet pollutant reduction requirements.

Each annual report shall provide a summary of voluntary stormwater management techniques encouraged on private property.

Voluntary stormwater management techniques include both practices installed and techniques implemented to prevent stormwater pollution. A summary of practices is provided below.

Table 13-1. Voluntary stormwater management practices.

Type of Stormwater Management	Practices Installed
Rain Barrels	128
Rain Gardens	7
Conservation Landscaping	5
Dry Well	1
Rainwater Harvesting	2
Living Shoreline	1

Table 13-2. Environmental homes commitments

Environmental Homes Program	New Participants	Total Participants
Bay Star Homes (askHRgreen.org)	10	306
River Star Homes (Elizabeth River Project)	9	400
Pearl Homes (Lynnhaven River NOW)	262	4,207

Program Evaluation

The City has implemented programs in all ten focus areas outlined in the MS4 permit.

1 Illicit Discharge and Improper Disposal: The City provides multiple reporting methods, implements a storm drain marker program, an Adopt-a-Drain program, and campaigns that promote awareness of stormwater pollution.

2 Individual and Group Involvement in Local Water Quality Improvement Initiatives: The City provides many opportunities throughout the year for people to get involved in water quality initiatives on their own, with a group, or as part of an event.

3 Public and Private Golf Courses: The City has confirmed that golf course managers have completed their NMPs and provided a link to additional resources on their website.

4 Used Oil and HHW: The continuing collection of materials and use of the HHW facility by residents indicates that people are aware of the facility and events.

5 Pet Waste and Household Yard Waste: The City continues to implement effective programs related to pet waste and household yard waste. The City implements an enhanced pet waste program and provides weekly pickup of yard waste from residential properties.

6 Litter Prevention: The City continues to implement an effective litter prevention program through its partnerships with Keep America Beautiful and askHRgreen and distributes information about litter prevention.

7 Residential Car Washing: The City's outreach includes in-person and online education of residents about environmentally friendly car washing practices.

8 Pesticides, Herbicides, and Fertilizers: The City continued to implement its outreach program for both in person and online education of residents and businesses about pesticides, herbicides, and fertilizers.

9 Voluntary Stormwater Management Practices: The City implements various cost participation programs to encourage implementation of BMPs on private property.

10 Groups with Significant Stormwater Impacts: The City has identified three groups with significant stormwater impacts including automotive industries, pet care industries, and landscaping companies. By coordinating with askHRgreen.org to target groups with significant stormwater impacts within the region and through the Bay Star Businesses program, the city is effectively leveraging resources to conduct this outreach.

14. Training

This section provides an overview of stormwater training for staff, as outlined in MS4 Permit Section I.B.2.k. Staff members receive the training and certifications necessary to carry out activities, including certifications maintained through relevant state agencies. The City developed stormwater pollution prevention training focused on identifying and reporting illicit discharges and implementing good housekeeping practices. City staff also attend stormwater-related training events hosted by the HRPDC throughout the year.

Training Provided by the City - Internal

The permit requires the City to provide training for appropriate staff to be able to recognize and report illicit discharges and stormwater pollution, and on best management practices for good housekeeping and pollution prevention. These are available through the City's Human Resources Learning Management System for employees and are available on the City's SharePoint system for group or block training.

- *How to Spot and Report Stormwater Pollution:* Recognition and reporting of illicit discharges, defining what qualifies as an illicit discharge, and how to report it.
- *Stormwater Pollution Prevention Good Housekeeping Practices:* Good housekeeping and pollution prevention practices to be employed during road, street, and parking lot maintenance; in and around maintenance and public works facilities; and in and around recreation facilities. This training also includes spill response and waste management procedures.

Training Provided by State Agencies - External

City staff participate in external training required to maintain their certifications, depending on individual staff responsibilities. Training and certifications are tracked within each Department, and records are available upon request.

- Virginia Pesticide Control Act Training/Certification – This training is for employees or contractors who apply pesticides and herbicides. Training in pesticide application is required.
- Emergency Spill Response Training/Certification – This training is for emergency response employees who need training and/or certifications in spill response.
- Erosion and Sediment Control Training/Certification – This training is for plan reviewers, inspectors, program administrators, and construction site operators who are required to have training and/or certification in the Virginia Erosion and Stormwater Management Program.
- Stormwater Management Training – This training is for plan reviewers, inspectors, program administrators, and construction site operators who are required to have training and/or certification in the Virginia Erosion and Stormwater Management Program.

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 training events and the number of individuals attending during the reporting year are provided below, which include both block training events and self-paced learning management system training.

Table 14-1. Training events conducted.

Training Description	Date	Staff Attended
How to Spot and Report Stormwater Pollution (illicit discharge training)	FY 2026 (rolling)	218
Stormwater Pollution Prevention Good Housekeeping Practices	FY 2026 (rolling)	121
SWPPP Training (Parks & Recreation)	6/30/2026	7

Program Evaluation

The City works to ensure that staff obtain and maintain their required training and certifications based on their job responsibilities.

15. VDOT Infrastructure Coordination

This section describes the City's coordination with the Virginia Department of Transportation (VDOT) for MS4 Permit Section I.B.2.m. The City coordinates with VDOT regarding permit requirements related to the physical interconnectivity of the two stormwater systems. The areas of interconnectivity are associated with interstates I-64 and I-264. The City owns all other public roadways and is responsible for their maintenance. MS4 Program elements are coordinated with VDOT to ensure that the program objectives align with the permit requirements.

Coordination Meeting with Virginia Department of Transportation

The City participates in at least one coordination meeting with VDOT each year for purposes of overall coordination on priority issues for the City's MS4 Program Plan and TMDL action planning relevant to MS4 interconnectivity. The annual coordination meeting was held on June 11, 2026. This meeting was part of a regional coordination effort with the Hampton Roads Phase I MS4 Permittees and the HRPDC. The meeting included discussion of all topics required by the permit. A summary of the coordination efforts with VDOT pursuant to the requirements in the permit is provided in the following paragraphs.

Mapping:

- All stormwater mapping is available on Map Center | City of Virginia Beach. As part of the City's open data portal, the stormwater infrastructure data are available for download.
- The City maintains the database of MS4 connection points between the City's system and other adjacent MS4s.
- VDOT BMPs and outfall data are located at Virginia Roads on the open data portal at *Open Roads*.
- VDOT is required to update the MS4 service area annually. The City previously provided VDOT with an MS4 service area for the VDOT service area. The City requested information about whether this boundary was modified within the City limits for coordination between the service areas.

Chesapeake Bay and Local TMDL Action Plans:

The City and VDOT support implementing a joint project; however, no such project has been identified within the Chesapeake Bay watershed. Because VDOT has no MS4 service area in phosphorus TMDL areas, no additional coordination is required. For the City's Local Bacteria TMDL Action Plan, no coordination with VDOT is needed because VDOT has not been assigned a waste load reduction. The City and VDOT continue to monitor the development of the PCB TMDL for the Lower James and Elizabeth Rivers and will coordinate as appropriate.

Credit for TMDL Implementation

The Providence Park Wet Pond project will provide pollutant reductions through treatment of both City and VDOT MS4 service area. A credit agreement was not necessary for this project since VDOT did not provide any resources, and the project is located on city property.

Illicit Discharge Detection and Elimination

Contacts for reporting illicit discharges and identification of high-risk runoff industrial facilities were confirmed. City staff communicate with the local VDOT MS4 coordinator as issues arise related to illegal dumping, illicit discharge, and construction activities.

Water Quality Monitoring

Water quality monitoring is conducted; however, none of the water quality monitoring sites discharge to or receive flow from the VDOT MS4 service area.

Other City Coordination with VDOT

The Hampton Roads Regional Environmental Committee meets monthly and facilitates coordination between VDOT and regional localities on MS4 Program components. The City and VDOT also coordinate routinely on maintenance issues and construction projects. Coordination also occurs with VDOT if a CIP project will impact VDOT's stormwater infrastructure by obtaining a VDOT Land Use Permit. VDOT notifies the City of any offsite staging areas associated with their construction projects that are not included in their CGP coverage. VDOT currently has one active construction project within the City at Laskin Road.

Specific Reporting Requirements

The MS4 permit requires the permittee to annually document coordination efforts with VDOT that occurred during the reporting year which is detailed in this section.

Program Evaluation

The City effectively coordinated with VDOT on all required MS4 permit elements through the annual meeting and through other activities.

16. In-system Wet Weather Monitoring

This section documents the City's actions under MS4 Permit Section I.C.1, which requires the City to develop and implement wet weather monitoring at two sites within the Hampton Roads Stormwater Monitoring Network for the specific parameters listed in MS4 Permit Part I.C.1.a.

The City and the five other southeastern Virginia Phase I MS4 localities, in partnership with the HRPDC, the United States Geological Survey, and HRSD, developed and implemented the Hampton Roads Regional Water Quality Monitoring Program to meet the monitoring requirements of their permits and aid in Chesapeake Bay TMDL compliance. The data from this in-system wet weather monitoring program are used for the following:

- Characterize the stormwater runoff discharged to the stormwater system in the Hampton Roads region.
- Determine the baseline pollutant loading rates associated with various land uses for use in the Chesapeake Bay Watershed Model.
- Update other Coastal Plain model parameters to improve the accuracy of the model.

Storm event samples are collected from a total of 12 monitoring stations, two per each Hampton Roads Phase I MS4 locality. Additional information on the Hampton Roads Regional Water Quality Monitoring Program objectives, monitoring site locations, and collected monitoring data can be viewed at Hampton Roads Regional Water Quality Monitoring Program | U.S. Geological Survey.

The two monitoring stations in the City are located off Lindsley Drive and Ludlow Drive. The data from these stations represent high-density and single-family residential land use, respectively. The monitoring stations are equipped with a continuous flow meter (stage, velocity, and discharge); a continuous water quality meter for measuring real-time water temperature, specific conductance, and turbidity; and an automatic in-stream water sampler that collects water samples for laboratory testing of nutrients and sediments. Water quality monitoring for nutrients and suspended solids is conducted during wet weather events. While the permit requires quarterly monitoring events, the program conducts automated real-time monitoring and tests for the additional parameters of flow, temperature, specific conductance, and turbidity. Recent efforts include watershed-scale mass input balance analyses, additional constituent evaluation, and stable nitrate isotope monitoring to better quantify nutrient sources and transport pathways.

Specific Reporting Requirements

In the second year of the permit cycle, the annual report shall include the results of the USGS GIS mass input analysis of estimate constituent input sources report, to include the interpretation completed by the USGS. This will be the only year these results are reported.

Nitrogen and phosphorus input data collected in 2025 were analyzed to identify the primary sources contributing to watershed nutrient loads. The mass-balance analysis indicated that atmospheric deposition was the largest contributor of nitrogen, accounting for 48 percent of the total nitrogen load. Fertilizer use and pet waste each accounted for 20 percent, while wastewater exfiltration contributed the remaining 12 percent.

Phosphorus inputs were dominated by fertilizer applications, representing 51 percent of total phosphorus load. Geologic weathering contributed 32 percent, and pet waste comprised 17 percent.

The analysis also quantified nutrient retention within the watersheds. Retention estimates show substantial differences between nitrogen and phosphorus dynamics. Median nitrogen retention was 52%, indicating that approximately half of the incoming nitrogen is stored or removed through denitrification or microbial uptake within the watershed prior to downstream transport. In contrast, median phosphorus retention was 7%, demonstrating limited phosphorus retention and greater mobility relative to nitrogen.

In the second year of the permit cycle, the annual report shall include the results of the nitrate isotope monitoring and analysis, to include the interpretation completed by the USGS. This will be the only year these results are reported

A total of 144 monthly nitrate isotope samples were collected in 2025 to characterize nitrate sources across the watershed. Isotopic analysis of both nitrogen and oxygen in nitrate was applied using a multi-tracer approach, enabling differentiation among fertilizer, wastewater, soil nitrogen, atmospheric deposition, and animal waste.

Distinct isotopic patterns were observed between baseflow and stormflow conditions. Baseflow samples, representing groundwater-influenced hydrology, generally exhibited signatures indicative of mixed soil nitrogen and fertilizer sources, with smaller and watershed-dependent contributions from wastewater and pet waste. During stormflow, isotopic compositions shifted toward an atmospheric deposition signature, reflecting the rapid mobilization of recent atmospheric inputs and the expected hydrologic and biogeochemical responses to storm events. Additional analyses were used to distinguish dissolved and particulate nutrient and sediment sources. Results show dissolved nitrogen is mostly organic, dissolved phosphorus is largely inorganic, and low VSS-to-TSS ratios indicate suspended sediment is primarily mineral rather than organic.

In the final year of the permit cycle, the annual report shall include the results of the trend analysis to include the interpretation completed by the USGS. This will be the only year these results are reported.

A trend analysis will be completed by the final year of the permit cycle, January 2029, and results will be provided in the 2028-2029 Annual Report.

Each annual report shall include a summary of the monitoring results from each sampling protocol and analyses and an interpretation of that data with respect to either the identification of long-term patterns and trends or the progress made towards the identification of said patterns and trends.

During this reporting period, the Hampton Roads Regional Water Quality Monitoring Program collected 251 wet weather samples for nutrients and sediment analysis. The *FY26 Regional Water Quality Monitoring Program Annual Report* provides a summary of the study results that investigated how pollutant loads, both flow and concentration, vary with precipitation, land use, dry and wet conditions, and seasonality. To ensure consistency and to capture variability between drought and high-flow years, monthly samples were collected at each monitoring station on a fixed schedule regardless of hydrologic condition. This approach improved the characterization of patterns, including groundwater baseflow and long-term concentration. Additionally, the study analyzed spatial differences in annual pollutant loads across the region. For the first time this permit year, nutrient mass-balance and isotope analyses were implemented to better understand nutrient sources and transport pathways. General findings of the study include:

- 2025 was one of the lowest precipitation years on record.
- Most stormwater entering the system is from larger events producing more than 1 inch of rainfall.
- Loads and yields for all constituents were lower compared to previous years. This is primarily due to 2025 being one of the driest years.
- Commercial watersheds with higher amounts of impervious surfaces yielded higher nitrogen, phosphorus, and sediment on average for all years of the study.
- Annual pollutant load variability is driven primarily by rainfall totals, regardless of land-use type. Orthophosphate accounts for a greater proportion of total phosphorus (TP), while organic nitrogen dominates total nitrogen (TN) loads, except in residential watersheds, where nitrate represents a larger share of TN.
- Commercial land uses generate higher loads overall, but residential areas generate more load per unit of runoff due to higher pollutant concentrations.
- Trend analyses for the period of record indicate declining nitrate loads, while organic nitrogen, TP, sediment, and orthophosphate show slight increases.
- Stormflow constitutes most of the annual load across all constituents; however, nitrate includes a substantial baseflow component derived from groundwater, primarily associated with soil nitrogen contributions.
- Nutrient mass-balance and isotope analyses provided additional insight into the sources and movement of nutrients through watersheds. Approximately half of the nitrogen inputs were attributed to atmospheric deposition, with a median watershed retention of 52 percent.
- Fertilizer contributed approximately half of the phosphorus inputs, but the median retention was only 7 percent suggesting that some urban watersheds act as efficient conveyance systems with limited retention capacity.

TMDL Action Plan and Implementation

This section describes the Chesapeake Bay TMDL Action Plan and local TMDL Action Plan development and implementation as required by MS4 Permit Section I.D.

17. Chesapeake Bay Special Condition

The City continues to implement stormwater management practices to meet Chesapeake Bay Total Maximum Daily Load (TMDL) compliance targets. The required 40 percent reduction in pollutant loads was met (TN 7,341 lbs/yr, TP 1,843 lbs/yr); progressing to 100 percent by June 30, 2028. An updated Action Plan with updated project status was made available for public input in July 2026 and submitted to DEQ in August 2026.

Table 17-1. Chesapeake Bay TMDL Reductions Progress

Source of Credit	Count EA	TN lbs/yr	TP lbs/yr
2006–2009 SWMFs	163	1,301	1,089
2014–2017 SWMFs	52	205	53
Wet Pond	1	68	30
Stream Restoration	1	235	80
Manufactured Treatment Devices	5	3.7	28
Septic-to-Sewer Conversion	245	2,293	0
Shoreline Restoration	1	505	31
Oyster Reef Restoration	1	1,407	29
Constructed Wetlands	1	45	12
Nutrient Trading	Annual Credit	1,278	491
Total Reduction Achieved		**7,341**	**1,843**
40% Required Reduction		*7,296*	*1,830*
40% Reduction Target Met		✓	✓
100% Required Reduction		*17,727*	*4,462*

Stormwater Management Facilities Constructed

The Lynnhaven Park Constructed Wetland project was completed this year and is now credited toward the TMDL requirements. Pollutant reduction calculations for the project were submitted to DEQ as part of this annual report. Further details about the project are provided below.

Lynnhaven Park Constructed Wetland

This project, completed in August 2025, is in the Lynnhaven River watershed next to Lynnhaven Middle School. This newly created constructed wetland is designed to improve local water quality by treating runoff from approximately 20 acres of previously developed land. The wetland filters stormwater before it enters Mill Dam Creek, which has already benefited from a prior stream restoration effort. Each year, the project helps remove about 13 pounds of phosphorous, reducing pollution and supporting a healthier environment for residents and wildlife. Photos of the wetland during construction are provided below for reference. The project calculations are included in the *FY26 TMDL Pollutant Reduction Calculations*.





Programs Implemented Not Applied to Reduction Credits

The City continued its citywide street sweeping program, with most operations conducted through contracted services as described in section 4. Roadways. The program aims to sweep all city-maintained roadways at least six times each year, which is the minimum frequency required to qualify for annual nutrient reduction credit reporting under the Chesapeake Bay TMDL. Street sweeping activities were carried out throughout the year by both City staff and contractors. During the permit year, the contractor did not meet the required six passes on most city streets, which prevented the City from reporting nutrient reduction credits for those areas. However, City staff achieved the necessary sweeping frequency in the Town Center and Oceanfront areas. The reductions in these locations amounted to only about one pound of phosphorus removal, so they were not included in Table 17-1. As a result, no credits are reported for this permit year.

The City operates a stormwater pipe cleaning program throughout its public drainage system, using both City staff and contractors. The program aims to proactively clean all public storm pipes to prevent blockages and maintain effective drainage. Efforts are underway to establish a consistent method for measuring the amount of sediment removed and for calculating the related reductions in pollutants. Because these measurement standards are not yet finalized, no pollutant reduction credits are being reported for this permit year.

The City has teamed up with the United States Army Corps of Engineers (USACE) to carry out the Lynnhaven Ecosystem Restoration Project. This important initiative aims to restore a variety of habitats in the Lynnhaven River, including 38 acres of wetlands, 94 acres of submerged aquatic vegetation (SAV), and 31 acres of reef habitat. The project is recognized by both Virginia and the Chesapeake Bay Program as a major component of oyster restoration under the Chesapeake Bay Watershed Agreement, which seeks to improve the health of the Bay and its tributaries.

The project is being completed in several phases, each focusing on different areas of the Lynnhaven River and specific habitat types:

- Phase 1: Construction is finished for the initial restoration sites. This includes 8 acres of reef habitat near Lynnhaven Bay and Keeling Cove, 2 acres of submerged aquatic vegetation next to First Landing State Park, and 5.5 acres of wetlands at Princess Anne High School.
- Phase 2: Work is underway to restore 23.2 acres of reef in Broad Bay and 12.4 acres of wetlands in Great Neck North. The installation of reef substrate is complete, and USACE is actively monitoring the site to track oyster growth and ensure the project goals are being met. The City has acquired the property for the Phase 2 wetland restoration, and the design is almost finished (currently 95% complete).
- Phase 3: Planting 25 acres of SAV is complete. The design process for restoring 6.6 acres of wetlands in Crab Creek is ongoing, which will help achieve the overall wetland restoration target. After each phase is finished, USACE will implement adaptive management at each site to maximize restoration success.

Once USACE completes the adaptive management for each site, the City will take over long-term maintenance. The City will evaluate reef and wetland sites to determine the amount of pollutant reductions achieved based on DEQ guidance. In addition to improving water quality, restoring habitats in the Lynnhaven River will support healthy fish, shellfish, and other aquatic species, enhance recreation opportunities, and help the Bay adapt to the effects of climate change benefiting both residents and the environment for years to come.

Planned Projects

The City is performing design or construction of the following stormwater quality improvement projects in the Chesapeake Bay watershed that will be credited towards future pollutant reductions.

- Bayville Lake Improvements
- Bow Creek Stormwater Park
- Chatham Hall Lake Improvements
- Eastern Branch Elizabeth River Wetland and Floodplain Restoration
- Historic Kempsville Constructed Wetland and Kayak Launch
- Kemps Lake Improvements
- Lynnhaven River Basin Ecosystem Restoration Project
- Oceana Gardens Constructed Wetlands
- Providence Park Wet Pond
- Saw Pen Point Shoreline Improvements
- Seatack Neighborhood Drainage Improvements

Annual Reporting Requirements

Any modifications to the Chesapeake Bay TMDL action plan made during the July 1 to June 30 reporting period.

The City submitted its updated 2025 Chesapeake Bay TMDL Action Plan to Virginia DEQ on January 26, 2025. The updated action plan provides for achieving both the required 40% reductions by June 30, 2026 and the required 100% reductions by June 30, 2028. The action plan can be found at Stormwater Quality | City of Virginia Beach.

Documentation identifying which BMPs were completed within the current annual reporting period. 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 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.

The required documentation for this specific reporting requirement is provided in Appendix B Stormwater Management Project Summary. This project summary includes detailed information about each project including those implemented during the current annual reporting period.

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.

There were no BMPs implemented during the reporting period that were not reported to the Warehouse.

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) or c), a statement that credits were acquired.

The City has acquired nutrient credits through an agreement with HRSD who are implementing the Sustainable Water Initiative for Tomorrow (SWIFT) Program. The City received annual credits of 1,278 lbs/yr of TN and 491 lbs/yr of TP.

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 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.

The City has implemented sufficient control measures and achieved the cumulative 40 percent reduction required by June 30, 2026, as documented through completed projects and nutrient trading with HRSD. To meet the cumulative 100 percent reduction required by June 30, 2028, the City will continue project implementation and utilize nutrient trading with HRSD. No temporary credits or offsets were used to meet compliance targets during this reporting period. Appendix B Stormwater Management Project Summary provides comprehensive details on the stormwater management facilities implemented and the reductions achieved, demonstrating how the required reductions are being met.

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.

The City has not received notification from DEQ regarding a start date for electronic submission of Chesapeake Bay TMDL implementation annual status reports.

18. Phosphorus TMDL Action Plan Implementation

The City's development and implementation of a local phosphorus TMDL action plan, as required by MS4 Permit Section I.D.2, is documented in this section. The City is required to reduce phosphorus from stormwater runoff from the City's MS4 service area within four watersheds with phosphorus TMDLs. The City developed and submitted an updated 2025 Local Phosphorus TMDL Action Plan, that identifies the City's plans for reductions to phosphorus in the identified watersheds. The waterways with phosphorus TMDLs flow south to the Albemarle Sound. The phosphorus impaired waterways include Lower Ashville Bridge Creek, Northwest River, Middle North Landing River, and Pocaty River.

The City is implementing practices to reduce phosphorus from stormwater. The primary means is through constructing stormwater management facilities to reduce phosphorus like the Chesapeake Bay TMDL Action Plan. Other practices being implemented are the State fertilizer law banning phosphorus and Nutrient Management Plans. Additional management practices are being evaluated for implementation including street sweeping, public education and outreach, catch basin and inlet cleaning, and land use changes.

The City will perform an analysis of the proposed future management practices to determine expediency, cost effectiveness, and feasibility. Both existing and future practices described in the action plan will be implemented over multiple permit cycles to achieve the required phosphorus reductions. The Action Plan can be found at: Stormwater Regulations | City of Virginia Beach.

Annual Reporting Requirements

For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan.

Street Sweeping

Street sweeping is performed citywide with the majority provided through contract services. The contractor did not perform the required minimum six sweeping events this year. Data will be analyzed to accurately report lane miles swept and associated reductions for each route within

each phosphorus TMDL watershed boundary. Although operational sweeping, discussed in section 4. Roadways exceeded the permit's coverage requirement, nutrient-credit performance thresholds for the Chesapeake Bay TMDL were not met; therefore, no credit is reported.

Public Education and Outreach

Public education is implemented citywide to educate residents and businesses about activities that contribute to stormwater phosphorus pollution and what they can do to help. These programs are described in more detail in Section 13. Public Education/Participation.

Nutrient Management Planning

The City developed a *Turf and Nutrient Management Plan* to address all City facilities that have fertilizer applied to more than one contiguous acre. There are five City facilities that have been included in the City's NMP and two private golf courses that developed NMPs. During this permit term, three fields at Landstown High School, Salem High School, and Tallwood High School have been converted to turf and no longer use fertilizer.

A 10-percent reduction in the phosphorus loading has been credited for the area of managed turf on these facilities, which are considered high risk facilities, as defined by the *Recommendations of the Expert Panel to Define Removal Rates for Urban Nutrient Management*. This 10-percent reduction is in addition to the credits associated with the State phosphorus ban in fertilizer.

The NMP phosphorus reduction credited in North Landing River and Ashville Bridge Creek watersheds are included in the following reduction tables. The calculations are provided with this annual report submittal in the *FY26 TMDL Pollutant Reduction Calculations*. NMPs may be developed in the future for other city-owned land leased for farming or in cooperation with private partners, such as businesses and private farmland owners.

Catch Basin and Inlet Cleaning

The City implements a program for catch basin and inlet cleaning, which reduces total phosphorus to waterways. Methods to accurately track the volume of sediment removed are planned to be developed and reductions from this program will not be reported until the data can be tracked.

Stormwater Management Facilities

Projects are underway in the local phosphorus TMDL watersheds with four projects in design and one in construction. A list of these and potential projects is provided in Appendix B.

Evaluation of Progress for the Phosphorus TMDL Action Plan Implementation

The City will regularly review and update its approach to ensure ongoing progress in reducing phosphorus pollution. The following tables show the results achieved by each of the practices described above. If a practice has not yet resulted in a reduction, the table will display a zero as a placeholder, indicating that any future improvements will be reported when they occur.

Table 18-1. Ashville Bridge Creek Watershed phosphorus reduction

Management Practice	TP Load Reduction (lbs/yr)
Fertilizer Reductions (includes state fertilizer law)	111
SWMFs	10
Nutrient Management Plans	9.2
Total P Reductions Achieved	130
Total P Reduction Goal	31
Progress	>100%

Table 18-2. North Landing River Watershed phosphorus reduction

Management Practice	TP Load Reduction (lbs/yr)
Fertilizer Reductions (includes state fertilizer law)	208
SWMFs	0
Nutrient Management Plans	23
Street Sweeping	0
Catch Basin Cleaning	0
Land Use Changes	0
Total P Reductions Achieved	231
Total P Reduction Goal	775
Progress	30%

Table 18-3. Northwest River Watershed phosphorus reduction

Management Practice	TP Load Reduction (lbs/yr)
Fertilizer Reductions (includes state fertilizer law)	4.3
Street Sweeping	0
Total P Reductions Achieved	4.3
Total P Reduction Goal	5.5
Progress	78%

Table 18-4. Pocaty River Watershed phosphorus reduction

Management Practice	TP Load Reduction (lbs/yr)
Fertilizer Reductions (state fertilizer law)	3.3
Street Sweeping	0
Total P Reductions Achieved	3.3
Total P Reduction Goal	4.2
Progress	79%

19. Bacteria TMDL Action Plan Implementation

The City's development and implementation of local bacteria TMDL action plans, as required by MS4 Permit Section I.D.2, is documented in this section. The City is required to reduce bacteria from stormwater runoff from the City's MS4 service area within the bacteria TMDL watersheds. The City has developed a local Bacteria TMDL Action Plan, which identifies the strategies the City will employ to reduce bacteria loading in stormwater runoff for the affected waterbodies in accordance with assigned wasteload allocations (WLAs). The City continues to implement practices to address bacteria in stormwater runoff. The Bacteria TMDL Action Plan can be found at: Stormwater Regulations | City of Virginia Beach

There are 11 waterways with a bacteria TMDL. Three of these have phosphorus TMDLs. The bacteria impaired waterways include the following:

- Ashville Bridge Creek and Muddy Creek
- Beggars Bridge Creek
- Broad Bay, Long Creek, and Linkhorn Bay
- Eastern Branch of the Elizabeth River
- London Bridge Creek and Canal 2
- Hell Point Creek, Upper and Lower
- Lynnhaven Bay
- North Landing River, Middle
- Pocaty River
- Rudee Inlet
- West Neck Creek, Upper

The City continues to implement all strategies described in the *2025 Local Bacteria TMDL Action Plan*, using both required stormwater programs and additional enhancements that go beyond MS4 permit obligations. These strategies are prioritized to address bacteria sources posing the greatest risk to human health. To maintain compliance with the Action Plan, the City actively conducts a range of activities including public education, pollution prevention training, maintenance of pet waste stations, community engagement, and operational practices such as street sweeping and storm drain cleaning that collectively reduce bacteria in local waterways and prevent pollutants from entering the stormwater system.

Annual Reporting Requirements

For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan.

Several actions are reported through the City's public education and participation programs described in Section 13. Public Education/Participation. These include promoting proper pet

waste disposal, educating the public about litter and illicit discharge prevention, maintaining pet waste stations, and supporting community programs such as Adopt-a-Drain and storm drain marking. Staff training activities that reinforce pollution prevention and illicit discharge recognition are reported in Section 14. Training, supporting proper implementation of permit-required activities.

Field programs described in Sections 6. Illicit Discharges and Improper Disposal, 7. Dry Weather Screening Program, and 8. Spill Prevention and Response work together to identify potential bacteria sources and prevent their discharge to receiving waters. An enhanced dry weather screening program is implemented that includes 88 stations this year to support the Bacteria TMDL Action Plan implementation. Collectively, these efforts help detect contaminated flows, eliminate unauthorized discharges, and prevent spills from reaching waterways. Additional operational activities reported in Sections 4. Roadways and 10. Stormwater Infrastructure Management include street sweeping, cleaning out storm drains, and stormwater management facility maintenance. These practices remove debris and pollutants before they can enter the stormwater system and ensure that stormwater facilities function as designed. Collectively, the City continues to implement all required, enhanced, and above-permit strategies described in the Bacteria TMDL Action Plan, demonstrating consistent compliance and ongoing commitment to protecting water quality.

The activities described below represent additional efforts to reduce bacterial contamination in waterways that are not documented in other sections.

Microbial Source Tracking

The City is working closely with HRSD on a project to track the sources of bacteria in the Thalia Creek watershed, focusing on those that pose greater risks to human health than bacteria from wildlife. Over this year, 43 stormwater outfalls in this area were sampled and tested for HF183, a marker that specifically indicates contamination from human sewage. When HF183 levels are above 1,000 copies per 100 milliliters, it suggests a high level of human sewage contamination. While most samples showed no sign of HF183, four water samples from the creek, near Paul Jones Lane and Constitution Drive, had elevated levels ranging between 1,000 and 6,000 copies per 100 milliliters. Because these samples were collected directly from the waterway, the exact source of contamination is still unknown. The City is actively investigating possible sources, working with HRSD to test these sites and investigate contamination within the public stormwater system. Further details about how the City investigates improper discharges and maintains sanitary sewers can be found in section 6. Illicit Discharges and Improper Disposal.

Education and Outreach for Boaters on Proper Disposal Practices

The City and HRSD promoted the use of the Boater Pump Out Program for proper disposal of boat waste. The Boater Education Pump Out Program conducted 116 pump outs and collected about 1,570 gallons of waste from boats. The City continued to maintain two free boat pump-out stations located at the Owl Creek Boat Launch and Lynnhaven Marina. These stations provide a

means for recreational vehicles to dispose of sanitary waste at no cost in a manner that does not pollute waterways. HRSD performed outreach to promote the use of these free facilities instead of dumping waste into waterways.

Sanitary Sewer Rehabilitation and Improvement Projects

The City continues to implement a sanitary sewer rehabilitation program, which includes repairing and resolving defects in the system that may cause sanitary sewer overflows. The City also has a CIP for replacement and rehabilitation of older sanitary sewer systems. The sanitary sewer rehabilitation and improvement construction that took place this year is listed below by activity performed and the amount completed for each activity.

- Sanitary Force Main Replaced 7,245 LF
- Sanitary Gravity Main Replaced 6,337 LF
- Sanitary Sewer Lined 14,734 LF
- Service Lateral Replacement 277 EA
- Manhole Rehabilitation or Replacement 46 EA
- Pump Station Modification Construction 5 EA

Prohibit Feeding of Waterfowl on Public Lands

The City continues to implement an ordinance prohibiting people from feeding any wildlife on public property. Wildlife includes all species of wild animals, wild birds, freshwater fish, and waterfowl. The City maintained signage at City parks where feeding is problematic such as at Mount Trashmore Park. Park rules posted on the City's website include the prohibition on feeding wildlife on public land.

Stormwater Management Facilities

While the City does not construct facilities for the sole purpose of bacteria reduction, there are existing SWMFs located in bacteria TMDL watersheds that provide stormwater treatment that were constructed to manage stormwater. The number of SWMF's and the MS4 service area that is treated by them in each watershed was included in the City's 2025 Bacteria TMDL Action Plan. SWMFs planned for implementation in support of other TMDLs are used to support progress in achieving the required reductions associated with bacteria TMDLs. The list of projects is provided in Appendix B.

Human Waste Source Investigations and Strategic Risk-Based Monitoring

The City has developed a Human Waste Source Reduction Strategy (HWSI) and Strategic Risk-Based Monitoring framework to better identify and eliminate bacteria sources in local waterways with TMDL's, prioritizing human health risk as outlined in the City's *2025 Bacteria TMDL Action Plan*. A monitoring plan was developed this permit year that prioritizes watershed identified through a catchment prioritization analysis. Strategic risk-based monitoring pairs fecal indicator bacteria (FIB) and HF183 data collection. This strategic risk-based monitoring will guide investigations to identify and isolate potential human sources of bacteria within areas of interest. Where results indicate sources, investigations move upstream into the City's stormwater system collecting sampling to isolate hot spots within the drainage area. The strategy adopts a human-

health risk-based approach to focus on tracking and eliminating sources most likely to cause illness.

Evaluation of Progress in Implementation of the Bacteria TMDL Action Plan

The City has developed an implementation strategy emphasizing a human health risk-based approach that includes monitoring, source tracking, resolution, public education, and other implementation efforts. The strategy identifies the most effective pathway towards attainment of bacteria-related water quality objectives and improved public health. It focuses on the use of human markers, and targeted watershed-specific source control efforts.

Progress is evaluated using and adaptive, iterative approach. Collaboration will continue with Virginia DEQ, Virginia Institute of Marine Science, and the Virginia Department of Health water quality monitoring data to assess the progress made in the City through implementation of the program.

Appendix A
Roles and Responsibilities

The following City Departments, Schools, and agencies support the implementation of the MS4 permit requirements and are further detailed in the following table by permit section.

BMS	Budget and Management Services
CAO	City Attorney Office
CO	Communications Office
CMO	City Manager's Office
CVB	Convention and Visitors Bureau
CVB-CFM	Convention Promotion and Facility Management
ECS	Emergency Communications and Citizen Services
FIR	Fire Department
FIR-FM	Fire-Fire Marshal & Prevention
FIR-OP	Fire-Operations
HNP	Housing and Neighborhood Preservation
HRD	Human Resources Department
HRPDC	Hampton Roads Planning District Commission
IT	Information Technology
IT-CGIS	Information Technology-Center for Geographic Information Systems
OFM	Office of Facilities Management
OFM-FDC	Facilities-Design and Construction
OFM-OPS	Facilities-Operations and Maintenance
OFM-FPD	Facilities-Planning and Development
PLN	Planning and Community Development
PLN-DSC	Planning and Community Development-Development Services Center
PLN-PI	Planning and Community Development-Building Permits and Inspections
PAR	Parks and Recreation Department
PAR-LS	Parks and Recreation-Park and Landscape Services
PAR-PO	Parks and Recreation-Programming and Operations
PAR-PDD	Parks and Recreation-Planning, Design and Development
POL	Police Department

PUD	Public Utilities Department
PUD-ENG	Public Utilities-Engineering
PUD-OPS	Public Utilities-Operations
PWD	Public Works Department
PWD-DBC	Public Works-Director's Office & Business Center
PWD-ENG	Public Works-Engineering
PWD-ENG-CS	Construction & Surveys
PWD-ENG-SWEC	Stormwater Engineering Center
PWD-ENG-SWMR	Surface Water Regulatory Compliance
PWD-ENG-TE	Transportation Engineering
PWD-FM	Public Works-Fleet Management
PWD-FM-OPS	Operations
PWD-FM-SUP	Support
PWD-OPS	Public Works-Operations
PWD-OPS-OM	Operations Management
PWD-OPS-STO	Streets and Traffic Operations
PWD-OPS-SWO	Stormwater Operations
PWD-PM	Public Works-Parking Management
PWD-WM	Public Works-Waste Management
PWD-WM-OPS	Operations
PWD-WM-SUP	Support
SCH	Schools
SCH-FO	Schools-Facility Operations

Permit Section	Description	Responsible Department	Role
I.A.1	Authorized Discharges	PWD-ENG-SWMR	Coordinate with DEQ on any requests for consideration of other non-authorized discharges.
I.A.2	Permittee Responsibilities	PWD-ENG-SWMR	Oversee implementation of MS4 Program Plan (MS4PP), coordinate with other departments and divisions to update roles and responsibilities, maintain agreements with outside agencies, and coordinate with DEQ during any cases of non-compliance.
I.A.3	Legal Authority	PWD-ENG-SWMR	Review and recommend changes to ordinances and coordinate updates with other departments.
I.A.3	Legal Authority	CAO	Maintain ordinances to support the MS4 permit.
I.A.4	MS4 Program Resources	BMS	Maintain the stormwater program budget in the City's annual Budget Plan on the website.
I.A.5	Permit Maintenance Fees	PWD-ENG-SWMR	Coordinate payment processing of MS4 permit maintenance fees.
I.A.6	MS4 Program Plan	PWD-ENG-SWMR	Maintain, implement, and provide oversight of the MS4PP. Document any additions, changes, or modifications. Review MS4PP annually and update as needed. Provide all program documents on the MS4 Program City SharePoint site for staff.
I.A.6	MS4 Program Plan	CAO	Provide support for enforcement of the MS4PP.
I.A.6	MS4 Program Plan	CO	Post MS4PP to website.
I.A.7	MS4 Program Plan Review	PWD-ENG-SWMR	Modify the MS4PP to reflect any program additions and supporting documents. Request program replacements to the MS4PP to DEQ as needed. Report on additions and modifications in the annual report.
I.B.1	Stormwater Management Planning	PWD-ENG-SWMR	Identify and maintain a database of potential stormwater management projects and website data for active projects.
I.B.1	Stormwater Management Planning	CO	Update website data for active projects as requested.

I.B.2.a	Construction Site Runoff & Post Construction Runoff	OFM-FDC	Implement stormwater management and erosion & sediment control programs in accordance with the regulations by obtaining plan approval from a VESMP Administrator and ensuring that E&S inspections and VESMP authority inspections for projects with CGPs are performed during construction. Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS.
I.B.2.a	Construction Site Runoff & Post Construction Runoff	OFM-FPD	Implement stormwater management and erosion & sediment control programs in accordance with the regulations by obtaining plan approval from a VESMP Administrator and ensuring that E&S inspections and VESMP authority inspections for projects with CGPs are performed during construction. Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS.
I.B.2.a	Construction Site Runoff & Post Construction Runoff	PLN-DSC	Serve as a VESMP Administrator for private development and some public projects and maintain an implementation plan. Implement stormwater management and erosion & sediment control programs in accordance with the regulations. Perform as-built review and acceptance of SWMFs for private and limited public-maintained facilities. Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS.
I.B.2.a	Construction Site Runoff & Post Construction Runoff	PLN-PI	Serve as a VESMP Administrator for private development and some public projects and maintain an implementation plan. Implement stormwater management and erosion & sediment control programs in accordance with the regulations by performing E&S inspections and VESMP authority inspections for projects with CGPs during construction.
I.B.2.a	Construction Site Runoff & Post Construction Runoff	PUD-ENG	Serve as a VESMP Administrator for private development and some public projects and maintain an implementation plan. Implement stormwater management and erosion & sediment control programs in accordance with the regulations by obtaining plan approval from a VESMP Administrator and ensuring that E&S inspections and VESMP authority inspections for projects with CGPs are performed during construction. Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS.

I.B.2.a	Construction Site Runoff & Post Construction Runoff	PWD-ENG-CS	Serve as a VESMP Administrator for private development and some public projects and maintain an implementation plan. Implement stormwater management and erosion & sediment control programs in accordance with the regulations by performing E&S inspections during construction.
I.B.2.a	Construction Site Runoff & Post Construction Runoff	PWD-ENG-SWMR	Implement stormwater management and erosion & sediment control programs in accordance with the regulations by ensuring that E&S inspections and VESMP authority inspections for projects with CGPs are performed during construction. Perform as-built review and acceptance of SWMFs for public maintained facilities.
I.B.2.a	Construction Site Runoff & Post Construction Runoff	PWD-ENG	Maintain the *Public Works Design Standards Manual*.
I.B.2.a	Construction Site Runoff & Post Construction Runoff	PWD-OPS-OM	Implement stormwater management and erosion & sediment control programs in accordance with the regulations by performing E&S inspections and VESMP authority inspections for projects with CGPs during construction.
I.B.2.a	Construction Site Runoff & Post Construction Runoff	PWD-OPS-SWO	Serve as a VESMP Administrator for private development and some public projects and maintain an implementation plan. Implement stormwater management and erosion & sediment control programs in accordance with the regulations. Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS. Perform as-built review and acceptance of SWMFs for public and private maintained facilities.
I.B.2.b	Retrofitting on Prior Developed Lands	PWD-ENG-SWEC	Develop and implement stormwater projects on prior developed lands that incorporate water quality improvements.
I.B.2.b	Retrofitting on Prior Developed Lands	PWD-ENG-SWMR	Develop and implement stormwater quality improvement projects on prior developed lands.
I.B.2.c	Roadways	OFM-OPS	Maintain roadways and parking lots according to written protocols to minimize pollutant discharge described in the *Stormwater Pollution Prevention and Good Housekeeping Manual*, including equipment maintenance, material storage, and snow and ice management.
I.B.2.c	Roadways	PAR-LS	Maintain school roadways and parking lots according to written protocols to minimize pollutant discharge described in the *Stormwater Pollution Prevention and Good*

			Housekeeping Manual, including equipment maintenance, material storage, and snow and ice management.
I.B.2.c	Roadways	PWD-OPS-STO	Maintain roadways and parking lots according to written protocols to minimize pollutant discharge described in the *Stormwater Pollution Prevention and Good Housekeeping Manual*, including equipment maintenance, material storage, and snow and ice management.
I.B.2.c.1	Roadways	PWD-OPS-SWO	Implement street cleaning program to sweep a minimum of 20% of lane miles with curb and gutter per year and 100% by end of permit term, January 2029. Maintain and update roadways database and report miles of roadway treated vs untreated by BMPs and street cleaning metrics.
I.B.2.c.2	Roadways	PWD-OPS-OM	Maintain data on publicly maintained roads and streets, including street names. Evaluate and report lane miles of roadways treated and not treated by SWMFs using GIS data.
I.B.2.c.3-4	Roadways	OFM-OPS	Implement protocols for the maintenance of roads, streets, and parking lots as described in the *Stormwater Pollution Prevention and Good Housekeeping Manual*.
I.B.2.c.3-4	Roadways	PAR-LS	Implement protocols for the maintenance of roads, streets, and parking lots as described in the *Stormwater Pollution Prevention and Good Housekeeping Manual*.
I.B.2.c.3-4	Roadways	PWD-ENG-SWMR	Perform periodic review and update protocols for the maintenance of roads, streets, and parking lots as needed in the *Stormwater Pollution Prevention and Good Housekeeping Manual*.
I.B.2.c.3-4	Roadways	PWD-OPS-STO	Implement protocols for the maintenance of roads, streets, and parking lots as needed in the *Stormwater Pollution Prevention and Good Housekeeping Manual*.
I.B.2.c.5-6	Roadways	OFM-OPS	Store deicing materials indoors or under cover.
I.B.2.c.5-6	Roadways	PAR-LS	Store deicing materials indoors or under cover.
I.B.2.c.5-6	Roadways	PWD-OPS-STO	Store deicing materials indoors or under cover.
I.B.2.d.1	Pesticide, Herbicide, and Fertilizer Application	PAR-LS	Develop and implement turf and landscape nutrient management plans where required.

I.B.2.d.1	Pesticide, Herbicide, and Fertilizer Application	PWD-ENG-SWMR	Track turf and nutrient management plans renewal dates. Report on the locations and acres covered by nutrient management.
I.B.2.d.2	Pesticide, Herbicide, and Fertilizer Application	OFM-OPS	Implement the municipal facility pest control program using good housekeeping measures in the application, storage, transport, and disposal of pesticides.
I.B.2.d.2	Pesticide, Herbicide, and Fertilizer Application	PAR-LS	Implement pesticide, herbicide, fertilizer program using good housekeeping measures in the application, storage, transport, and disposal of pesticides.
I.B.2.d.2	Pesticide, Herbicide, and Fertilizer Application	PWD-OPS-SWO	Implement the mosquito control program using good housekeeping measures in the application, storage, transport, and disposal of pesticides.
I.B.2.d.3	Pesticide, Herbicide, and Fertilizer Application	CAO	Support review and approval of a fertilizer ordinance if requested by a department.
I.B.2.d.4	Pesticide, Herbicide, and Fertilizer Application	PWD-ENG-SWMR	Report on the acreage of lands treated annually by pesticides used for mosquito control.
I.B.2.d.4	Pesticide, Herbicide, and Fertilizer Application	PWD-OPS-SWO	Track the areas pesticides are applied annually for the integrated mosquito management plan.
I.B.2.e	Illicit Discharge and Improper Disposal	CAO	Support the enforcement of ordinances to prohibit dumping and to eliminate illicit discharges.
I.B.2.e.1	Illicit Discharge and Improper Disposal	PWD-ENG-SWMR	Evaluate and impose conditions on any allowable non-stormwater discharges that contribute significant amounts of pollutants into the public stormwater system.
I.B.2.e.2	Illicit Discharge and Improper Disposal	PUD-ENG	Implement a sanitary sewer inspection program. inspect a minimum of 100,000 linear feet of sanitary sewer annually and 730,000 linear feet of sanitary sewer by the end of the permit term.

I.B.2.e.3	Illicit Discharge and Improper Disposal	PAR-LS	Implement floatables reduction program through mowing with litter pickup. Coordinate with PW/SWMR on floatables survey documentation.
I.B.2.e.3	Illicit Discharge and Improper Disposal	PAR-PO	Implement floatables reduction program through managing Adopt-a-program and other litter cleanup efforts. Coordinate with PW/SWMR on floatables survey documentation.
I.B.2.e.3	Illicit Discharge and Improper Disposal	PWD-ENG-SWMR	Oversee implementation of the floatables reduction program and tracking floatables surveys. Implement the pilot inlet screens at Town Center.
I.B.2.e.3	Illicit Discharge and Improper Disposal	PWD-OPS-SWO	Implement floatables reduction program. Conduct stormwater pump station cleanouts and provide documentation for floatables surveys. Manage ditch cleaning, street sweeping, and debris fence cleanout programs.
I.B.2.e.3	Illicit Discharge and Improper Disposal	PWD-WM	Implement floatables reduction program through waste collection efforts, management of recycling centers and public education and outreach.
I.B.2.e.4	Illicit Discharge and Improper Disposal	PWD-ENG-SWMR	Enforce the Storm Sewer Discharge Ordinance to prohibit the dumping or disposal of used motor vehicle fluids, household hazardous waste, sanitary sewage, grass clippings, leaf litter, and animal waste into the public stormwater system and review and recommend revisions.
I.B.2.e.4	Illicit Discharge and Improper Disposal	PWD-OPS-SWO	Enforce the Storm Sewer Discharge Ordinance to prohibit the dumping or disposal of used motor vehicle fluids, household hazardous waste, sanitary sewage, grass clippings, leaf litter, and animal wastes into the public stormwater system.
I.B.2.e.4	Illicit Discharge and Improper Disposal	PWD-WM	Implement programs to collect used motor vehicle fluids and household hazardous waste for recycling, reuse, or proper disposal and promote them to the public at least twice per year.
I.B.2.e.5	Illicit Discharge and Improper Disposal	PUD-ENG	Identify potential illicit discharges associated with the fats, oils and grease program.
I.B.2.e.5	Illicit Discharge and Improper Disposal	PWD-ENG-SWMR	Implement the illicit discharge and dry weather screening programs.
I.B.2.e.5	Illicit Discharge and Improper Disposal	PWD-OPS-SWO	Investigate potential illicit discharges and track and report on investigations and resolutions in the work management system.

I.B.2.e.6	Illicit Discharge and Improper Disposal	PUD-ENG	Investigate any potential illicit discharges associated with the public sewer system and resolve deficiencies within 30 days.
I.B.2.e.6	Illicit Discharge and Improper Disposal	PWD-ENG-SWMR	Ensure elimination of illicit discharges within 30 days of discovery or provide a schedule for removal that minimizes discharge until resolution is achieved. Coordinate with other departments and divisions in tracking actions related to investigation and resolution of illicit discharges in SharePoint. Provide annual reporting of illicit discharges.
I.B.2.e.6	Illicit Discharge and Improper Disposal	PWD-OPS-SWO	Ensure elimination of illicit discharges within 30 days of discovery or provide a schedule for removal that minimizes discharge until resolution is achieved. Track actions related to investigation and resolution of illicit discharges in the work management system.
I.B.2.e.6	Illicit Discharge and Improper Disposal	HNP	Ensure elimination of illicit discharges within 30 days of discovery or provide a schedule for removal that minimizes discharge until resolution is achieved for identified illicit discharges originating from private property.
I.B.2.f	Spill Prevention and Response	FIR-OP	Prevent, contain, and respond to emergency spills and provide required reporting.
I.B.2.f	Spill Prevention and Response	PUD-ENG	Track and report spills of sanitary sewage related to the public system.
I.B.2.f	Spill Prevention and Response	PWD-ENG-SWMR	Coordinate a spill prevention and response program with the Fire Department and other departments and provide annual reporting of spills.
I.B.2.f	Spill Prevention and Response	PWD-OPS-SWO	Prevent, contain, and respond to non-emergency spills and provide support to the Fire Department upon request for emergency spill response. Track and report on spills, not including the public system, in the work management system.
I.B.2.g.1-6	Industrial & High Risk Runoff	PWD-ENG-SWMR	Implement an industrial and/or commercial high-risk runoff program to identify and inspect facilities for identification of sites that contribute a significant pollutant loading to the public stormwater system. Perform inspections of known facilities once every five years. Maintain a list of industrial and/or commercial high-risk discharging facilities.

I.B.2.h	Stormwater Infrastructure Management	OFM-FDC	Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS.
I.B.2.h	Stormwater Infrastructure Management	PAR-PDD	Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS.
I.B.2.h	Stormwater Infrastructure Management	PLN-DSC	Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS.
I.B.2.h	Stormwater Infrastructure Management	PWD-ENG-SWEC	Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS.
I.B.2.h	Stormwater Infrastructure Management	PWD-ENG-SWMR	Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS. Perform research and provide documents and data updates.
I.B.2.h	Stormwater Infrastructure Management	PWD-ENG-TE	Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS.
I.B.2.h	Stormwater Infrastructure Management	PWD-OPS-OM	Implement a program to maintain the public stormwater infrastructure. Actions include adding new or missing assets based on stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs, adding links to Laserfiche records, and revising existing asset data for accuracy. Perform updates to the stormwater system inventory in GIS and Cartegraph to maintain accuracy.
I.B.2.h	Stormwater Infrastructure Management	PWD-OPS-SWO	Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS. Implement a program to maintain the public stormwater infrastructure. Perform updates to the stormwater system inventory in both Cartegraph and Laserfiche to maintain accuracy.
I.B.2.h	Stormwater Infrastructure Management	PUD-ENG	Provide stormwater infrastructure record drawings of the conveyance system and as-builts of SWMFs to PWD-OPS. Maintain the stormwater infrastructure on Public Utilities managed sites.

I.B.2.h.1	Stormwater Infrastructure Management	OFM-OPS	Identify and report needed maintenance of the stormwater system at municipal facilities to PWD-OPS.
I.B.2.h.1	Stormwater Infrastructure Management	PAR-LS	Perform maintenance of publicly owned and/or maintained SWMFs and stormwater infrastructure with in-house staff or through contract services at Schools, Parks, and Recreation Center properties.
I.B.2.h.1	Stormwater Infrastructure Management	PUD-ENG	Maintain asset inventory, perform inspection and necessary maintenance of SWMFs at Public Utilities sites and provide reporting.
I.B.2.h.1	Stormwater Infrastructure Management	PWD-ENG-SWMR	Maintain the written procedures for inspection and maintenance of SWMFs. Perform inspection of SWMFs and report data to PWD-OPS-OM for inclusion in Cartegraph records.
I.B.2.h.1	Stormwater Infrastructure Management	PWD-OPS-OM	Track and report total infrastructure asset count and inspections and maintenance of the public stormwater infrastructure.
I.B.2.h.1	Stormwater Infrastructure Management	PWD-OPS-SWO	Perform inspections of 15% of the public stormwater infrastructure system on City and school properties and within the right-of-way annually, perform identified maintenance, and obtain any permits required for maintenance work. Inspect 80% of the system during the permit term. Perform annual inspections and identify necessary maintenance of publicly owned and/or maintained SWMFs. Perform the necessary maintenance of publicly owned and/or maintained SWMFs.
I.B.2.h.1	Stormwater Infrastructure Management	SCH	Ensure adequate funding is provided to perform identified maintenance of the stormwater system including SWMFs.
I.B.2.h.2.a.1	Stormwater Infrastructure Management	PWD-ENG-SWMR	Develop asset data for new single family residential SWMFs and report to PWD-OPS-OM for inclusion in the inventory. Implement a strategy to promote the long-term maintenance of SWM facilities that treat runoff solely from the individual residential lot.

I.B.2.h.2.a.2-3	Stormwater Infrastructure Management	PWD-ENG-SWMR	Implement a program to ensure maintenance of private SWMFs with maintenance agreements and implement a strategy for private maintenance of non-residential property SWMFs without maintenance agreements in coordination with PW/IESR through a referral process. Coordinate with the CA on enforcement actions. Maintain the *SWMF Inspection and Maintenance Manual*.
I.B.2.h.2.a.2-3	Stormwater Infrastructure Management	PWD-OPS-SWO	Perform inspections once every five years for private SWMFs with maintenance agreements and follow up to ensure that maintenance was performed. Perform inspections of 5% of private non-residential SWMFs without maintenance agreements per year and follow up to ensure that maintenance was performed.
I.B.2.h.2.a.2-3	Stormwater Infrastructure Management	CAO	Provide legal support and enforcement to ensure maintenance of private non-residential SWMFs with maintenance agreements.
I.B.2.h.3.a-g	Stormwater Infrastructure Management	PWD-ENG-SWMR	Maintain MS4 service area delineation and support updates to MS4 outfall and tributary area data. Provide reporting of acres served by the MS4.
I.B.2.h.3.a-g	Stormwater Infrastructure Management	PWD-OPS-OM	Maintain MS4 outfall data. Maintain the required GIS data for the stormwater system permit requirements.
I.B.2.i.1-2	City Facilities	PWD-ENG-SWMR	Maintain the *Stormwater Pollution Prevention Good Housekeeping Manual*. Identify city and school facilities that require storm drain markers, install, and replace markers as needed.
I.B.2.i.3.a	City Facilities	PWD-ENG-SWMR	Maintain a database of high-priority municipal facilities and identify which of those sites have a high potential of discharging pollutants.
I.B.2.i.3.b	City Facilities	OFM-OPS	Perform maintenance of source controls consistent with the SWPPP for a portion of the Public Works Operations Management and Parks and Recreation Landscape Management Beach Operations Yard.
I.B.2.i.3.b	City Facilities	PAR-LS	Perform maintenance of source controls and inspections consistent with the SWPPP for the Parks and Recreation Landscape Management Yard and portions of the Public Works Operations Management and Parks and Recreation Landscape Management Beach Operations Yard and Public Works Operations Management and Parks and

			Recreation Landscape Management Euclid Yard. Manage the Dam Neck Yard vehicle wash area in accordance with the VPDES permit.
I.B.2.i.3.b	City Facilities	PUD-OPS	Perform maintenance of source controls and inspections consistent with the SWPPP for the DPU Dam Neck Yard. Operate and maintain the vehicle wash area at the Dam Neck facility.
I.B.2.i.3.b	City Facilities	PWD-ENG-SWMR	Develop SWPPPs for any newly identified facilities, oversee implementation of the SWPPPs at each facility through annual inspections and perform updates as needed.
I.B.2.i.3.b	City Facilities	PWD-FM-OPS	Perform maintenance of source controls and inspections consistent with the SWPPP for the Leroy Road Yard, and the Fleet Management facilities at the Dam Neck Yard and Waste Management Holland Road Yards. Operate and maintain the vehicle wash area at the Holland Road facility.
I.B.2.i.3.b	City Facilities	PWD-OPS-STO	Perform maintenance of source controls and inspections consistent with the SWPPP for a portion of the Pungo Yard and the 14th Street Yard.
I.B.2.i.3.b	City Facilities	PWD-OPS-SWO	Perform maintenance of source controls and inspections consistent with the SWPPP for the DPW Dam Neck Yard, Oceana Yard, portions of the Euclid Yard, 14th Street Yard and Pungo Yard. Operate and maintain the vehicle wash areas at the Dam Neck Yard, 14th Street Yard and Pungo Yard.
I.B.2.i.3.b	City Facilities	PWD-WM-OPS	Perform maintenance of source controls and inspections consistent with the SWPPP for the Waste Management Yard at Holland Road and the City Landfill.
I.B.2.j.1.a.c.g.i.j	Public Education / Participation	IT-CGIS	Manage the Adopt-a-Drain and Storm Drain Marker GIS databases and perform updates as requested.
I.B.2.j.1.a.c.g.i.j	Public Education / Participation	PWD-ENG-SWMR	Implement a public education program with City departments, Schools, HRPDC, and non-governmental organizations.
I.B.2.j.1.a.c.g.i.j	Public Education / Participation	CO	Support the public education program through promotions on social media and webpage updates.
I.B.2.j.1.a.c.g.i.j	Public Education / Participation	HRPDC	Implement a public education program through askHRgreen.

I.B.2.j.1.b, e, h	Public Education / Participation	PAR-PO	Implement the Adopt-a-Program, student education projects, maintain pet waste stations, and volunteer planting and cleanup project efforts.
I.B.2.j.1.b, e, h	Public Education / Participation	PWD-ENG-SWMR	Implement the enhanced pet waste management program
I.B.2.j.1.b, e, h	Public Education / Participation	PWD-WM-SUP	Promote clean-up activities and disposal of vehicle fluids and household hazardous waste. Promote and publicize proper disposal of household yard waste. Promote the use of the litter prevention program.
I.B.2.j.1.b, e, h	Public Education / Participation	HRPDC	Implement a public education program through askHRgreen.
I.B.2.j.1.d, f	Public Education / Participation	PWD-WM-SUP	Promote the City's Resource Recovery Center for household hazardous waste collection and other collection events throughout the year. Litter prevention is promoted in participation with Keep America Beautiful and through askHRgreen. The City conducts outreach and distributes litter prevention materials including pamphlets and giveaways at events.
I.B.2.j.1.d, f	Public Education / Participation	HRPDC	Implement a public education program through askHRgreen.
I.B.2.j.2-4	Public Education / Participation	PWD-ENG-SWMR	Ensure that annual reports, the permit, and the MS4 Program Plan are on the city website.
I.B.2.j.2-4	Public Education / Participation	CO	Post annual reports, the permit, and the MS4 Program Plan on the city website.
I.B.2.k	Training	PWD-ENG-SWMR	Maintain and implement MS4 Permit Training Procedures. Develop and update internal stormwater awareness trainings for illicit discharge recognition and reporting training and good housekeeping and identify position titles required to complete these trainings.
I.B.2.k.1	Training	CVB	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years.
I.B.2.k.1	Training	ECS	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years.

I.B.2.k.1	Training	FIR	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years. Track and provide records for training completed outside of Taleo Learn.
I.B.2.k.1	Training	HNP	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years.
I.B.2.k.1	Training	HRD	Support documentation of training records in Taleo Learn and provide reporting data.
I.B.2.k.1	Training	OFM	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years.
I.B.2.k.1	Training	PAR	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years.
I.B.2.k.1	Training	PLN	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years.
I.B.2.k.1	Training	POL	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years. Track and provide records for training completed outside of Taleo Learn.
I.B.2.k.1	Training	PWD	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years.
I.B.2.k.1	Training	SCH	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years. Track and provide records for training completed outside of Taleo Learn.
I.B.2.k.1	Training	PUD	Ensure identified staff positions complete How to Spot and Report Stormwater Pollution stormwater awareness training once every two years.
I.B.2.k.10	Training	FIR	Maintain documentation for spill response training and records of attendance for a minimum of three years and provide reporting.
I.B.2.k.10	Training	HRD	Maintain internal training on Taleo Learn. Provide a list of staff in position titles for required internal training. Maintain and provide records of attendance for a minimum of three years in the City's Learning Management System, Taleo Learn.

I.B.2.k.10	Training	POL	Maintain documentation for How to Spot and Report Stormwater Pollution and Stormwater Pollution Prevention Good Housekeeping Practices and records of attendance for a minimum of three years and providing reporting.
I.B.2.k.10	Training	SCH	Maintain documentation for How to Spot and Report Stormwater Pollution and Stormwater Pollution Prevention Good Housekeeping Practices and records of attendance for a minimum of three years and providing reporting.
I.B.2.k.2, 4, 8	Training	CVB	Ensure identified staff positions complete Stormwater Pollution Prevention Good Housekeeping Practices training once every two years.
I.B.2.k.2, 4, 8	Training	OFM	Ensure identified staff positions complete Stormwater Pollution Prevention Good Housekeeping Practices training once every two years.
I.B.2.k.2, 4, 8	Training	PAR	Ensure identified staff positions complete Stormwater Pollution Prevention Good Housekeeping Practices training once every two years.
I.B.2.k.2, 4, 8	Training	PWD	Ensure identified staff positions complete Stormwater Pollution Prevention Good Housekeeping Practices training once every two years.
I.B.2.k.2, 4, 8	Training	SCH	Ensure identified staff positions complete Stormwater Pollution Prevention Good Housekeeping Practices training once every two years. Track and provide records for training completed outside of Taleo Learn.
I.B.2.k.2, 4, 8	Training	PUD	Ensure identified staff positions complete Stormwater Pollution Prevention Good Housekeeping Practices training once every two years.
I.B.2.k.3	Training	PWD-ENG-SWMR	Maintain the Stormwater Pollution Prevention Good Housekeeping Manual and update the training as needed.
I.B.2.k.5	Training	OFM-OPS	Ensure, track and report that appropriate personnel and contractors have pesticide training and certifications. Provide records upon request.
I.B.2.k.5	Training	PAR-LS	Ensure, track and report that appropriate personnel and contractors have pesticide training and certifications. Provide records upon request.
I.B.2.k.5	Training	PWD-OPS-SWO	Ensure, track and report that appropriate personnel have pesticide training and certifications and provide records upon request. Ensure that contractors who apply herbicides are trained or certified.

I.B.2.k.6 and 7	Training	OFM-FDC	Ensure that appropriate personnel in the Office of Facilities Management have E&S and SWM training and certifications and provide records upon request.
I.B.2.k.6 and 7	Training	PLN-DSC	Ensure that appropriate personnel in the Planning Department have E&S and SWM training and certifications and provide records upon request.
I.B.2.k.6 and 7	Training	PLN-PI	Ensure that appropriate personnel in the Planning Department have E&S and SWM training and certifications and provide records upon request.
I.B.2.k.6 and 7	Training	PUD-ENG	Ensure that appropriate personnel have E&S and SWM training and certifications and provide records upon request.
I.B.2.k.6 and 7	Training	PWD-ENG-CS	Ensure that appropriate personnel have E&S and SWM training and certifications and provide records upon request.
I.B.2.k.6 and 7	Training	PWD-ENG-SWMR	Ensure that appropriate personnel in PW Engineering have Erosion & Sediment (E&S) and SWM training and certifications and provide records upon request.
I.B.2.k.6 and 7	Training	PWD-OPS-OM	Ensure that appropriate personnel in PW Operations Division have E&S and SWM training and certifications and provide records upon request.
I.B.2.k.6 and 7	Training	PWD-OPS-SWO	Ensure that appropriate personnel in PW Operations Division have E&S and SWM training and certifications and provide records upon request.
I.B.2.k.9	Training	FIR-OP	Ensure appropriate personnel have spill response training and report on the training program.
I.B.2.l	Dry Weather Screening Program	PWD-ENG-SWMR	Implement a dry weather screening program.
I.B.2.l	Dry Weather Screening Program	PWD-OPS-OM	Provide reporting of maintenance and/or repairs of infrastructure outfalls.
I.B.2.m	Infrastructure Coordination	PWD-ENG-SWMR	Coordinate with VDOT annually on the MS4 program.
I.C.1	In-System/Wet Weather Monitoring	PWD-ENG-SWMR	Support HRSD in performing requested maintenance of the stormwater system to support the regional monitoring program. Review data and provide annual reporting.

I.C.1	In-System/Wet Weather Monitoring	HRPDC	Implement the regional monitoring program with USGS and HRSD.
I.D.1	TMDL Action Plan and Implementation	PWD-ENG-SWEC	Implement projects that reduce nutrients to the Chesapeake Bay.
I.D.1	TMDL Action Plan and Implementation	PWD-ENG-SWMR	Develop and implement the Chesapeake Bay Action Plans including submittal of data required annually. Implement projects that reduce nutrients to the Chesapeake Bay.
I.D.2	TMDL Action Plan and Implementation	PUD-ENG	Track sanitary sewer system repairs and replacement in support of the Local Bacteria TMDL Action Plan implementation.
I.D.2	TMDL Action Plan and Implementation	PWD-ENG-SWMR	Develop and implement local action plans for TMDLs and submit required data annually. Implement projects that reduce nutrients in support of the Local Phosphorus TMDL Action Plan implementation.
I.E.	Annual Reporting	PWD-ENG-SWMR	Prepare and submit MS4 annual reports.
II	DEQ BMP Warehouse Reporting	PWD-ENG-SWMR	Oversee SWMF database and tracking activities. Report to BMP Warehouse annually.
II	DEQ BMP Warehouse Reporting	PWD-OPS-OM	Maintains SWMF database and tracking activities.
III.A, B, and C	Monitoring, Records, and Reporting Monitoring Results	PWD-ENG-SWMR	Maintains records, submits DMRs to DEQ, implements monitoring with HRPDC, USGS, and HRSD.
III.A, B, and C	Monitoring, Records, and Reporting Monitoring Results	HRPDC	Implement monitoring with USGS and HRSD
III.E	Compliance Schedule Reports	PWD-ENG-SWMR	Submits reports no later than 14 days following each schedule date as requested.
III.G	Reports of Unauthorized Discharges	PUD-ENG	Report spills through the Hampton Roads Regional Spill Reporting database.

III.G	Reports of Unauthorized Discharges	PWD-ENG-SWMR	Notify DEQ by verbal or on-line notification within 24 hours of knowledge of reportable spills, and written notification within five days of the initial notification and maintain reports.
III.G	Reports of Unauthorized Discharges	PWD-OPS-OM	Notify DEQ by verbal or on-line notification within 24 hours of knowledge of reportable spills, and written notification within five days of the initial notification. Maintain report data.
III.G	Reports of Unauthorized Discharges	FIR	Notify DEQ by verbal or on-line notification within 24 hours of knowledge of reportable spills, and written notification within five days of the initial notification. Maintain report data.
III.H	Reports of Unusual or Extraordinary Discharges	PUD-ENG	Provide notification of any unusual or extraordinary discharges because of flooding or other acts of nature.
III.H	Reports of Unusual or Extraordinary Discharges	PWD-ENG-SWMR	Provide notification of any unusual or extraordinary discharges because of flooding or other acts of nature.
III.H	Reports of Unusual or Extraordinary Discharges	PWD-OPS-OM	Provide notification of any unusual or extraordinary discharges because of flooding or other acts of nature.
III.H	Reports of Unusual or Extraordinary Discharges	FIR	Provide notification of any unusual or extraordinary discharges because of flooding or other acts of nature.
III.I	Reports of Noncompliance	PUD-ENG	Notify DEQ by verbal or on-line notification within 24 hours of knowledge of reportable spills, and written notification within five days of the initial notification. Maintain report data.
III.I	Reports of Noncompliance	PWD-ENG-SWMR	Notify DEQ by verbal or on-line notification within 24 hours of knowledge of reportable spills, and written notification within five days of the initial notification. Maintain report data.

III.I	Reports of Noncompliance	PWD-OPS-OM	Notify DEQ by verbal or on-line notification within 24 hours of knowledge of reportable spills, and written notification within five days of the initial notification. Maintain report data.
III.I	Reports of Noncompliance	FIR	Notify DEQ by verbal or on-line notification within 24 hours of knowledge of reportable spills, and written notification within five days of the initial notification. Maintain report data.
III.K	Signatory Requirements	PWD-ENG-SWMR	Ensure that documents submitted to DEQ meet the signatory requirements of this section. Provide updated written authorization for delegation to DEQ as needed.
III.K	Signatory Requirements	CMO	Provide updated written authorization for delegation of authorization as needed.
III.M	Duty to Reapply	PWD-ENG-SWMR	Submit the required information for reapplication at least 180 days prior to permit expiration.
III.M	Proper Operation and Maintenance	PWD-OPS-SWO	Properly operate and maintain all stormwater treatment and control facilities that achieve compliance with this permit.
III.R	Disposal of Solids or Sludges	PWD-ENG	Properly disposes of solids removed from stormwater systems to prevent reentry into surface waters.
III.R	Disposal of Solids or Sludges	PWD-OPS-SWO	Properly disposes of solids removed from stormwater systems to prevent reentry into surface waters.

Appendix B
Stormwater Management Project Summary

New BMPs used to meet Chesapeake Bay TMDL requirements

Project Name	Implementation Status	Final Completion Date	Unique Asset ID	HUC 6	Type of SWMF	Treated Impervious Acres	Treated Pervious Acres	Total Treated Acres	Estimated TP Reduction Efficiency	Estimated TP Reduction (lbs/yr)	Estimated TN Reduction Efficiency	Estimated TN Reduction (lbs/yr)
Mill Dam Creek MTD	Construction Completed	Mar-17	SU2408442880B	CB25	MTD - Filtering	0.35	0.00	0.35	20%	0.20	0%	3.7
Drake Court	Construction Completed	Mar-18	SU1496170000	CB25	MTD - Hydrodynamic	6.0	9.4	15	20%	3.1	0%	N/A
Southern Boulevard Pond	Construction Completed	Jun-20	SU1467932176	JL54	Wet Pond	33	26	59	45%	30	20%	68
Aragona Drainage Improvements	Construction Completed	Jul-20	SU1478220970	CB25	MTD – Hydrodynamic	67	147	214	20%	10	0%	N/A
Laurel Cove Park	Construction Completed	Apr-24	SU2408171123 A1 & A2	CB25	MTD – Hydrodynamic	15	22	37	20%	8.9	0%	N/A
Kemps River Crossing	Construction Completed	Jul-24	SU1465381743	JL54	MTD – Hydrodynamic	11	2.8	14	20%	5.0	0%	N/A
Lynnhaven Park Constructed Wetland	Construction Completed	Aug-25	SU2408442880	CB25	Constructed Wetland	9.4	11	20	50%	13	25%	45
Historic Kempsville Constructed Wetland and Kayak Launch	Construction Ongoing	Oct-26	TBD	JL54	Constructed Wetland & MTD	9.8	3.4	13	59%	10	25%	22
Seatack Neighborhood Drainage Improvements	Construction Ongoing	Oct-26	TBD	CB25	MTD - Hydrodynamic	6.1	9.2	15	20%	3.7	0%	N/A
Oceana Gardens Constructed Wetland	Construction Ongoing	Jan-27	TBD	CB25	Constructed Wetland	14	7.0	21	51%	13	32%	52
Providence Park Wet Pond	Design Ongoing	Feb-32	TBD	JL54	Level I Wet Pond	39	91	130	58%	50	37%	240
All Saints Episcopal Bioretention	Potential Projects	Dec-29	TBD	CB25	Level 1 Bioretention	0.8	0.5	1.3	74%	1.2	63%	7
Diamond Springs Gardenwood Park Wet Pond	Potential Projects	TBD	TBD	CB26	Wet Pond	16	23	39	65%	28	30%	93

Retrofit BMPs used to meet Chesapeake Bay TMDL requirements

Project Name	Implementation Status	Final Completion Date	Unique Asset ID	HUC 6	Existing Type of SWMF or Land	Retrofit Type of SWMF	Treated Impervious Acres	Treated Pervious Acres	Total Treated Acres	Estimated TP Reduction (lbs/yr)	Estimated TN Reduction (lbs/yr)
Mill Dam Creek Stream Restoration	Construction Completed	Mar-17	SU2408442880C	CB25	Eroded Stream	Stream Restoration [3]	59	45	104	80	235
Lynnhaven River: Phase 1 Wetlands Restoration	Construction Completed	Feb-24	SU1477769448B	CB25	Eroded Shoreline	Shoreline Management [4]	0	5.5	5.5	31	505
Lynnhaven River: Phase 1 Oyster Reef Restoration	Construction Completed	Jun-25	SU1489710000	CB25	Bare Bottom Waters	Oyster Reef Restoration [5]	N/A	N/A	8.0	29	1,407
Lynnhaven River: Phase 2 Oyster Reef Restoration	Construction Ongoing	Jan-28	TBD	CB25	Bare Bottom Waters	Oyster Reef Restoration [5]	N/A	N/A	23	3.6	2,262
Kemps Lake Improvements	Construction Ongoing	Sep-26	TBD	JL54	Volume Control Wet Pond [1]	Water Quality Wet Pond [2]	564	312	876	236	911
Bow Creek Stormwater Park Section 1	Construction Ongoing	Feb-27	TBD	CB25	Eroded Shoreline	Shoreline Management [4]	0	12	12	67	1,098
Eastern Branch Elizabeth River Wetland and Floodplain Restoration	Construction Ongoing	Dec-26	TBD	JL54	Eroded Shoreline	Shoreline Management [4]	0	2.5	2.5	54	344
Bayville Park Lake Improvements	Construction Ongoing	May-27	TBD	CB25	Volume Control Wet Pond [1]	Water Quality Wet Pond [2]	39	116	155	29	198
Lynnhaven River: Phase 2 Wetlands Restoration	Design Ongoing	Mar-28	TBD	CB25	Eroded Shoreline	Shoreline Management [4]	0	12	12	69	1,139
Bow Creek Stormwater Park Section 2	Design Ongoing	May-30	TBD	CB25	Eroded Shoreline	Shoreline Management [4]	0	13	13	75	1,237
Chatham Hall Lake Improvements	Design Ongoing	Aug-30	TBD	JL54	Volume Control Wet Pond [1]	Water Quality Wet Pond [2]	118	135	253	81	292
Saw Pen Point Shoreline Improvements	Design Ongoing	Oct-33	TBD	CB25	Eroded Shoreline	Shoreline Management [4]	0	0.31	0.31	11	60
Lynnhaven River: Phase 3 Wetlands Restoration	Design Ongoing	TBD	TBD	CB25	Eroded Shoreline	Shoreline Management [4]	N/A	N/A	6.6	37	606
Lake Edward Improvements	Potential Projects	Sep-32	TBD	JL54	Volume Control Wet Pond [1]	Water Quality Wet Pond [2]	133	60	193	92	319

[1] Existing Volume Control Wet Ponds have a pre-retrofit removal efficiency of 36% for TP and 16% for TN based on downward modifications for missing forebays and aquatic bench features.
[2] Water Quality Wet Ponds have a post-retrofit removal efficiency of 65% for TP and 30% for TN based on the level 2 wet pond specification in the Stormwater Management Handbook (2025).
[3] Stream Restoration Practices have a post-retrofit removal estimated using the protocols in the Expert Panel reports for Stream Restoration Projects (2014, 2019, 2020).
[4] Shoreline Management Practices have a post-retrofit removal estimated using the protocols in the Expert Panel Report for Shoreline Management Projects (2019).
[5] Oyster Reef Restoration Practices have a post-retrofit removal estimated using the protocols in the Oyster BMP Expert Panel Report for Assimilation and Denitrification (2023).

BMPs used to meet Local Phosphorus TMDL requirements

Project Name	Implementation Status	Final Completion Date	Unique Asset ID #	HUC 6	Type of SWMF	Treated Impervious Acres	Treated Pervious Acres	Total Treated Acres	Estimated TP Reduction Efficiency	Estimated TP Reduction (lbs/yr)
Ashville Park Wet Pond	Construction Completed	Apr-25	SU2413167885A2	AS18	Wet Pond	95	207	302	45%	10
Salem Village Park	Construction Ongoing	Oct-26	TBD	AS13	MTD - Filtering	7.5	10.1	18	65%	12
Brigadoon Park Wet Pond Improvements	Design Ongoing	Jul-29	TBD	AS12	Wet Pond	46	58	104	55%	36
Princess Anne Athletic Complex Wet Swales	Design Ongoing	Oct-29	TBD	AS13	Wet Swales	6.9	7.0	14	39%	6.0
Bellamy Woods Park	Design Ongoing	Jan-30	TBD	AS13	MTD - Filtering & Hydrodynamic	8.6	8.1	17	72%	14
Sunstream Park Pond Improvements	Design Ongoing	Apr-35	TBD	AS13	Wet Pond	62	76	138	29%	31
Alexandria #3	Potential Projects	TBD	TBD	AS12	Wet Pond	64	75	139	29%	43
Brannon Drive	Potential Projects	TBD	TBD	AS13	MTD- Hydrodynamic	28	42	70	20%	14
Charlestown Lakes South Wet Pond Retrofit	Potential Projects	TBD	TBD	AS12	Wet Pond	72	86	158	29%	76
Courthouse Estates #8	Potential Projects	TBD	TBD	AS13	Wet Pond	25	26	51	29%	16
Emmerton Court	Potential Projects	TBD	TBD	AS13	MTD- Hydrodynamic	26	36	62	20%	12
Glenwood Lake #7	Potential Projects	TBD	TBD	AS13	Wet Pond	104	137	241	29%	72
Glenwood Wet Pond Retrofit	Potential Projects	TBD	TBD	AS13	Wet Pond	62	81	143	5%	7.0
Hillcrest Lakes	Potential Projects	TBD	TBD	AS13	Wet Pond	14	28	42	29%	11
Indian Lakes Boulevard Pond Improvements	Potential Projects	TBD	TBD	AS13	Wet Pond	61	44	105	5%	6.0
Indian Lakes East Wet Pond Improvements	Potential Projects	TBD	TBD	AS13	Wet Pond	113	233	346	11%	34
Indian Lakes West Pond Improvement	Potential Projects	TBD	TBD	AS12	Wet Pond	63	139	202	29%	52
Naxera Circle/Firehouse 19	Potential Projects	TBD	TBD	AS12	MTD- Hydrodynamic	32	30	62	20%	14
Old Princess Anne	Potential Projects	TBD	TBD	AS13	MTD- Hydrodynamic	51	27	108	20%	22
Rock Creek Lake Improvements	Potential Projects	TBD	TBD	AS13	Wet Pond	49	52	101	29%	32
Rosemont Forest #2	Potential Projects	TBD	TBD	AS12	Wet Pond	109	110	219	29%	71
Salem Woods Park Lake	Potential Projects	TBD	TBD	AS13	Wet Pond	57	25	82	31%	36
Salem-Ferrell Constructed Wetland	Potential Projects	TBD	TBD	AS13	Constructed Wetland	10	12	22	58%	15
Woodbridge Pointe #4	Potential Projects	TBD	TBD	AS12	Wet Pond	35	34	69	29%	23

Appendix C
List of Illicit Discharges Identified

Description and Status of Illicit Discharges Identified

Date Identified: 8/13/2025 **Location/Address:** 3412 Petunia Crescent **HUC 6:** CB25 **Description and Source:** Washing machine discharge **Date Eliminated or Resolved:** 8/18/2025 **Status:** Resolved	**Summary and Follow-Up** A report was received of a discharge of grey water from the location. About 25 gallons of wash water from a washing machine was discharged through a hose running down the driveway. Notices of violation were issued and the homeowner stopped using the washing machine until repairs were completed. Staff confirmed that repairs were completed, and no further discharge was observed.
Date Identified: 9/18/2025 **Location/Address:** 3556 Dam Neck Road **HUC 6:** AS14 **Description and Source:** Vehicle Wash Water **Date Eliminated or Resolved:** 9/18/2025 **Status:** Resolved	**Summary and Follow-Up** About 300 gallons of vehicle wash water entered the stormwater system from improper placement of a large vehicle at a City owned wash rack designed to discharge to the sanitary sewer system. The wash water discharge was treated by a wet pond prior to being discharged to surface waters. Improvements were made to the wash rack to contain wash water from large vehicles.
Date Identified: 10/27/2025 **Location/Address:** 6016 Wesleyan Drive **HUC 6:** JL54 **Description and Source:** Plaster **Date Eliminated or Resolved:** 10/27/2025 **Status:** Resolved	**Summary and Follow-Up** A report was received regarding a home maintenance contractor who disposed of waste into a storm drain. Specifically, less than one gallon of plaster wash water, resulting from rinsing a bucket after plaster work, was dumped into the storm drain. Upon inspection, the plaster had already dried inside the drain, which prevented cleanup from being performed. Educational materials about proper disposal practices were provided to the contractor responsible for the incident.

Description and Status of Illicit Discharges Identified

Date Identified: 3/6/2026

Location/Address: 4113 Rainbow Drive

HUC 6: AS13

Description and Source: Vehicle paint

Date Eliminated or Resolved: 3/10/2026

Status: Resolved

Summary and Follow-Up

A report was received regarding an incident where vehicle paint was poured into a storm drain by an unidentified individual. Upon inspection, it was determined that less than one gallon of paint had entered the storm drain. The paint was found to be dry and could not be removed. To promote environmental awareness, educational door hangers were distributed in the surrounding area to inform residents about proper disposal practices and the importance of protecting stormwater systems.

Date Identified: 3/24/2026

Location/Address: 2021 Winding Wood Court

HUC 6: AS13

Description and Source: DE filter/water softener backwash

Date Eliminated or Resolved: 4/6/2026

Status: Resolved

Summary and Follow-Up

A report was received regarding the discharge of discolored water, which left a visible residue in the gutter. The property owner confirmed that backwash water from a diatomaceous earth water softener was released onto the curb and gutter. This discharge entered the stormwater system and ultimately reached a downstream waterway. In response to the incident, a notice of violation was issued to the property owner.

Appendix D
List of Reportable Spills

Spill Information		Summary and Follow-up Activities
Date: **Location:** **Description:** **Source:**	7/10/2025 Da Vinci Drive Sewage Force Main Break	A force main break in a City sanitary sewer line caused a spill of 500 gallons of sewage. 300 gallons were recovered and 200 gallons reached nearby Scopus Marshall Canal. A repair clamp was placed on the force main break. The sewage was removed by vactor trucks, and the area was disinfected and washed.
Date: **Location:** **Description:** **Source:**	7/21/2025 5616 Lawson Hall Drive Heating Oil Spill	A home heating oil tank spilled approximately 200 gallons of home heating oil in the backyard of a residence. The spill did not enter the public stormwater system or local waterways. The Fire Department responded and assisted with cleanup.
Date: **Location:** **Description:** **Source:**	7/28/2025 512 Croatan Road Sewage Force Main Break	A force main break in a City sanitary sewer line caused a spill of 1500 gallons of sewage. 1000 gallons were recovered and 500 gallons reached nearby Lake Wesley. The broken section of the force main was removed and a new section was sleeved in. The sewage was removed by vactor trucks, and the area was washed and disinfected.
Date: **Location:** **Description:** **Source:**	9/16/2025 4221 Indian River Road Heating Oil Spill	A heating oil tank was found to be leaking in the crawl space of a residence and spilled over 100 gallons of heating oil. The spill did not enter the public stormwater system or local waterways. The Fire Department applied absorbents and DEQ coordinated with the homeowner to achieve permanent tank closure and remediation.
Date: **Location:** **Description:** **Source:**	10/12/2025 2957 Marlin Bay Drive Diesel Fuel Spill	During a severe rain event, a 50-gallon drum of diesel fuel fell over at a City construction site spilling approximately 50 gallons of diesel to the Lynnhaven River. The Fire Department and Maritime Police recovered the diesel drum and assisted with the cleanup of the spilled diesel fuel.
Date: **Location:** **Description:** **Source:**	10/14/2025 3211 Lynnhaven Drive Diesel Fuel Spill	A report was received of a diesel fuel discharge at a marina after a sheen was observed on the water surface. The sheen, covering approximately 300 square feet, was believed to have originated from a spill of less than 1 gallon from a vessel in the marina. A containment boom was deployed, and the sheen dissipated naturally.

Spill Information		Summary and Follow-up Activities
Date: **Location:** **Description:** **Source:**	10/18/2025 524 Fishermans Bend Diesel Fuel Spill	A report was received of a diesel fuel discharge from a sunken privately owned vessel at Rudee Inlet. Less than 1 gallon of diesel fuel was discharged to surface waters. A boom was placed in the water to contain and remove the diesel fuel from the waterway.
Date: **Location:** **Description:** **Source:**	11/2/2025 100 Constitution Drive Sewage Force Main Break	A force main break in a City sanitary sewer line caused a spill of 1500 gallons of sewage. 1000 gallons were recovered and 500 gallons reached nearby Thalia Creek. The storm drain was blocked with a filter sock to prevent more sewage from entering the storm drain. The force main was repaired. The sewage was removed by vactor trucks, and the area was cleaned and sanitized.
Date: **Location:** **Description:** **Source:**	11/9/2025 2639 Broad Bay Road Sewage Broken Hookup Hose	A broken hookup hose in a City sanitary sewer line caused spill of 1000 gallons of sewage. 125 gallons were recovered and 875 gallons reached nearby Broad Bay. An emergency shellfish closure was put into place for the entire downstream waterbody. The force main was repaired. The sewage was removed by vactor trucks, and the area was cleaned and sanitized.
Date: **Location:** **Description:** **Source:**	11/21/2025 1389 Fordham Drive Sewage Pump Discharge Fitting Blow-Out	A pump discharge fitting blew in a City sanitary pump station resulting in a spill of 1500 gallons of sewage. 500 gallons were recovered and 1000 gallons reached nearby Lake James. The pump discharge fitting was repaired. The sewage was removed by vactor trucks, and the area was cleaned and sanitized.
Date: **Location:** **Description:** **Source:**	12/24/2025 3436 Bow Creek Boulevard Sewage Force Main Break	A force main break in a City sanitary sewer line caused a spill of 800 gallons of sewage. 400 gallons were recovered and 400 gallons reached nearby Bow Creek. A repair clamp was placed on the force main. The sewage was removed by vactor trucks, and the area was cleaned and sanitized.
Date: **Location:** **Description:** **Source:**	1/1/2026 581 Water Oak Road Sewage Force Main Break	A force main break in a City sanitary sewer line caused a spill of 800 gallons of sewage. 400 gallons were recovered and 400 gallons reached nearby Thalia Creek. A repair clamp was placed on the force main. The sewage was removed by vactor trucks, and the area was cleaned and sanitized.

Spill Information		Summary and Follow-up Activities
Date: **Location:** **Description:** **Source:**	1/7/2026 3330 Virginia Beach Boulevard Gasoline Vehicle accident	Firefighters responded to a private vehicle accident in which a vehicle drove into a stormwater retention pond. Approximately 10-15 gallons of gasoline were spilled into a retention pond. Booms were used to isolate the gasoline in the water, and a contractor removed the gasoline from the pond. No gasoline entered the downstream waterway.
Date: **Location:** **Description:** **Source:**	1/7/2026 Kings Grant Road Sewage Bypass Hose Cracked	A bypass hose cracked due to pressure from a closed valve causing a spill of 100 gallons of sewage. 70 gallons were recovered and 30 gallons made it to nearby Lynnhaven River. The bypass hose was replaced, and the area was cleaned and sanitized.
Date: **Location:** **Description:** **Source:**	1/20/2026 1105 Rollingwood Arch Sewage Dumping	An employee from a construction company was observed dumping an unknown quantity of construction residue into the storm drain. It was confirmed with the company that the residue was related to a private sewer line repair. A notice of violation was issued to the business. The residue was gone and not able to be recovered.
Date: **Location:** **Description:** **Source:**	1/26/2026 104-212 42nd Street Diesel Fuel and Motor Oil Flooding and Spill	A sump pump in the pump station control room of the 42nd Street stormwater pump station malfunctioned. This resulted in the buildup of standing water in the control room, causing the generator to release 200-300 gallons of diesel fuel and 15 gallons of motor oil in the standing water. None of the standing water entered the wet well or the public stormwater system. A bypass operation was set up for stormwater pumping while the standing water in the control room was removed.
Date: **Location:** **Description:** **Source:**	2/24/2026 1053 Virginia Beach Boulevard Sewage Force Main Spill	The force main air vent was hit by a contractor causing a spill of 600 gallons of sewage. 300 gallons were recovered and 300 gallons reached a nearby branch of the Lynnhaven River. The sewage was removed by vactor trucks, and the area was cleaned and sanitized.

Spill Information		Summary and Follow-up Activities
Date:	3/6/2026	A force main break in a City sanitary sewer line caused a spill of 350 gallons of sewage. 300 gallons were recovered and 50 gallons reached nearby West Neck Creek. The force main was abandoned, and a temporary bypass was installed to the new pump station nearing completion. The sewage was removed by vactor trucks, and the area was cleaned and sanitized.
Location:	1304 Old Clubhouse Road	
Description:	Sewage	
Source:	Force Main Break	
Date:	4/22/2026	A bypass pump hose blew resulting in a spill of 2000 gallons of sewage. 1750 gallons were recovered and 250 gallons reached nearby London Bridge Creek. The sewage was removed by vactor trucks, and the area was cleaned and sanitized.
Location:	764 Chimney Hill Parkway	
Description:	Sewage	
Source:	Bypass Hose Leak	
Date:	4/27/2026	During construction of a City pump station, concrete flowable fill was being pumped into an abandoned sanitary sewer line. The line had not been capped properly, resulting in an unknown quantity of flowable fill spilling into nearby Bow Creek. Turbidity curtains were used for containment, and a contractor removed the concrete from the waterway using vactor trucks and completed remediation efforts.
Location:	3336 Bow Creek Boulevard	
	Concrete	
Description:	Flowable Fill Concrete	
Source:		
Date:	5/22/2026	A report was received of a diesel fuel discharge from an unsecured private vessel in a Broad Bay inlet. Less than one gallon of diesel fuel was discharged to surface waters. A boom was placed in the water by the Fire Department to clean up the diesel fuel.
Location:	2512 Queens Elm Court	
Description:	Diesel Fuel	
Source:	Spill	
Date:	6/16/2026	A City contractor had an excavator with a damaged hydraulic line discharge approximately 2-3 gallons of hydraulic oil to a stormwater pond. Turbidity curtains were used to contain the spill, and the oil was cleaned up.
Location:	Landstown Centre Way	
Description:	Hydraulic Oil	
Source:	Spill	
Date:	6/24/2026	Three separate private sewer manholes backed up and caused a spill of 500 gallons of sewage. The sewage flowed into a storm drain. 300 gallons were recovered and 200 gallons reached nearby Lake Holly. City staff cleaned out the private manholes and adjacent storm drop inlet using vactor trucks. Downstream public sanitary sewer mains were also cleaned as a precaution. The area was cleaned and sanitized.
Location:	105 15th Street	
Description:	Sewage	
Source:	Sanitary Sewer Backups	

Appendix E
List of Industrial High Risk Runoff Facilities

Permit # or Address	Industrial or Commercial Facility Name	Date of Last Inspection
VAR052090	KW1 LLC	2/16/2023
VAR050320	Lynnhaven Marine - Boatel	2/16/2023
VAR051266	Pick-N-Pull Auto Dismantlers, Virginia Beach LLC	3/28/2023
VAG750279	City of Virginia Beach Park and Landscape Services	4/03/2023
VAG110033	Titan Virginia Ready Mix - Oceana	4/18/2023
VAR052318	Virginia Beach Landfill No. 2	12/5/2023

Appendix F
Public Outreach Activities

Public Outreach Activity	Date	Estimated # of Individuals Reached or Participated
Lake Lawson & Lake Smith Cleanup	7/12/2025	54
Green Run Night Out Community Event	8/5/2025	60
Hunts Point Cleanup	8/8/2025	27
Beach Garden Park Cleanup	8/12/2025	10
Cypress Point Civic League	8/14/2025	30
Oceanfront Enhancement Committee Meeting	8/28/2025	40
Resort Advisory Commission Meeting	9/4/2025	15
Endless Summer Event at Bow Creek	9/6/2025	200
Birchwood Civic League Meeting	9/9/2025	40
Scarborough Square Cleanup	9/13/2025	78
International Coastal Cleanup	9/20/2025	165
Westminster Canterbury Community Event	9/22/2025	250
Lynnhaven River Basin Ecosystem Restoration Project Phase 3 Wetland Public Meeting	9/24/2025	12
Family Fishing Clinic	9/27/2025	56
Catch the King Training	10/1/2025	7
Central Resort District Drainage Improvements Public Information Meeting	10/2/2025	31
Master Gardener Fall Festival	10/4/2025	1,095
Virginia Beach Child Protective Services Tide - The Power of We	10/4/2025	250
Virginia Beach Master Gardeners Fall Gardening Festival	10/4/2025	1,200
Pine Ridge Fall Festival	10/5/2025	250
Lakeview Park Civic League	10/6/2025	12
Bellamy Woods Manor Civic League Meeting	10/9/2025	17
Fall Gardening Festival	10/11/2025	1,000
Virginia Beach Parks & Recreation Commission Meeting	10/15/2025	20
Youth Volunteer Corps Hampton Roads Cleanup	10/18/2025	8
First Landing Fall Festival	10/18/2025	547
Tidewater Community College Fair	10/21/2025	100
Pleasure House Point Wetlands Celebration	10/25/2025	126
Zero Waste Wardrobe Event (Fall)	11/1/2025	60
Eco-Market Event	11/2/2025	200
Reusable Bag Sewing Workshop	11/8/2025	24
Virginia Beach Public Utilities Water Tower Building Event	11/8/2025	80

Public Outreach Activity	Date	Estimated # of Individuals Reached or Participated
Virginia Beach Public Works Annual Picnic	11/13/2025	633
Youth Volunteer Corps Hampton Roads Cleanup	11/15/2025	13
Cleaveland Street Phase 4 Public Hearing	11/19/2025	29
Community Impact Day at the Sandler Campus	11/23/2025	230
Landstown Community Cleanup	11/24/2025	52
Native Wreath Workshop	12/6/2025	25
Environmental Sustainability Workshop	12/9/2025	50
Glenwood Elementary Event	12/11/2025	30
Francis Land Park Cleanup	1/10/2026	42
Youth Volunteer Corps Hampton Roads Cleanup	1/10/2026	15
Winter Wildlife Festival Movie Night	1/10/2026	76
Virginia Aquarium E-Cycling Event	1/10/2026	720
Reusable Bag Sewing Workshop	1/15/2026	21
Pembroke Meadows Civic League Meeting	1/15/2026	30
Mid-Atlantic Home & Outdoor Living Event	1/18/2026	2,573
Chesopeian Colony Civic League Meeting	1/20/2026	60
Virginia Beach Winter Wildlife Festival	1/24/2026	1,500
Sunstream Park Water Quality Project Public Meeting	1/26/2026	3
Coastal Storm Risk Management Public Meeting	1/26, 28-29/2026	49
Winter Wildlife Festival Birding Workshop	1/26/2026	11
Historic Kempsville Citizens Advisory Committee	1/26/2026	40
Old Donation School Eco Club Bag Sewing Workshop	2/16/2026	14
Nature Journaling Workshop	2/18/2026	10
Kings Grant Neighborhood Civic League meeting	2/19/2026	40
Nimmo Parkway Phase 7B Public Meeting	2/19/2026	200
Conservation Biology Class Guest Speaker	2/19/2026	20
Climate Resilient Gardening	2/19/2026	30
Fairfield Forest Civic League Meeting	2/25/2026	30
Black History Month Event	2/28/2026	300
Girl Scout Troop 112 Cleanup	3/1/2026	11
Kempsville Lions Club Meeting	3/3/2026	40
Alanton Garden Club Meeting	3/18/2026	38
Living Shorelines Workshop	3/21/2026	28
Christopher Farms Elementary - Career Day	3/26/2026	400
Native Plant Class for the Institute for Learning in Retirement	4/1/2026	14
Kellam High School - Recycling Education	4/1/2026	20

Public Outreach Activity	Date	Estimated # of Individuals Reached or Participated
First Colonial High School Conservation Club Meeting	4/2/2026	24
Little League trash talks and swamp cleanup	4/9/2026	15
Trashmore Fishing Inlet Cleanup	4/11/2026	69
Native Spring Fling Plant Swap	4/11/2026	112
Chesopeian Garden Club Meeting	4/15/2026	14
Kellam High School - Surfrider Club	4/15/2026	30
Notable Tree & Tree Care Workshop	4/18/2026	16
Old Donation School Eco Fair	4/18/2026	117
Zero Waste Wardrobe Event	4/18/2026	4,000
Williams Farm Park Cleanup	4/18/2026	30
Earth Week | Wonder Walkers Story Walk	4/18-23 & 25/2026	40
Earth Week | Trash Tours at Mount Trashmore	4/19-23/2026	44
Tidewater Chapter of Virginia Master Naturalists speaking engagement	4/20/2026	30
Sandbridge Earth Day Cleanup	4/22/2026	18
Earth Day Recycle Zone	4/25/2026	408
First Landing State Park Nature Party	4/26/2026	205
Charlestown Garden Club Meeting	4/27/2026	30
First Colonial High School Conservation Club Meeting	4/30/2026	11
Clean the Bay Day	5/2/2026	476
Mid-Atlantic Ocean Forum Conference	5/4/2026	50
Larkspur Middle Trash talk and site cleanup	5/11/2026	38
Virginia Native Plant Society of South Hampton Roads speaking engagement	5/14/2026	20
Rising Sun Powwow Event	5/16/2026	1,000
Pinewood Gardens Cleanup	5/16/2026	6
Virginia Beach Comicon	5/17/2026	20,000
Virginia Beach Public Libraries-Welcome to Virginia Beach Event	5/17/2026	160
Thalia Elementary Stormwater Classroom Presentation	6/2/2026	40
Pollinator Habitat Workshop at the Brock Center	6/6/2026	20
Osprey Walk at First Landing State Park	6/12/2026	18
Thalia Greenway Cleanup	6/13/2026	53
Tidewater Appalachian Trail Club	7/26/2026	31
Virginia Beach Travel & Tourism Foundation Golf Tournament	11/8/2026	75
Pleasure House Point Bird and Plant Walks	Various	71

Public Outreach Activity	Date	Estimated # of Individuals Reached or Participated
Litter Prevention Library Campaign	Various	875
Pet Waste Library Campaign	Various	540
Rain Barrel Workshops at the Farmers Market	Various	120
Animal Care and Adoption Center Campaign	Various	222
Cape Henry Collegiate Stream Team Water Quality Testing and cleanups	Various	130

Appendix G
Results of Stations Screened

Site ID	Intersection	Flow Observed
01000-118	Haden Road and King William Road	Yes
01000-240	Forest View Drive and Sunrise Drive	No
01030-18201	Bayside Road and Miller Store Road	No
01060-158	Five Forks Road and Priscilla Lane	No
01230-001	Adams Road and Baker Road	Yes
01240-410	Duncan Lane and Shell Road	No
03180-434	Prince William Court and Sir Wilfred Place	No
03220-026	Bishop Drive and Cambria Court	No
03220-044	Abbey Arch and Bishop Drive	No
04140-406	East Coral Key and Coral Key	No
06000-388	North Lynnhaven Road and Swain Hill Court	No
06100-1322	Dalebrook Drive and Potters Road	No
06100-508	Lynnhaven Parkway and Virginia Beach Boulevard	No
06105-130	Cheltenham Drive and Elon Drive	No
06140-626	International Parkway and Voyager Court	No
06140-654	International Parkway and Reliance Drive	No
06170-818	Avenger Drive and Viking Drive	No
06200-096	Golden Oak Court and South Lynnhaven Road	No
06240-016	Lee Highlands Boulevard and South Lynnhaven Road	No
0630-GR-256	Sierra Drive and Sierra Arch	Yes
06310-720	Bunyan Court and Bunyan Road	No
063350-376	Bamberg Place and Magic Hollow Boulevard	No
06370-098	Lynnhaven Parkway and Riverbend Road	No
06400-GR-200	Colorado Circle and Lake Tahoe Trail	Yes
06400-GR-700	Lombard Court and Nesbitt Drive	Yes
06400-GR-868	Dahlia Drive and Ohare Drive	Yes
07060-114	Glenfield Court and Wolfsnare Road	No
07060-441	Mountain Laurel Trail and Wolfsnare Road	No
07080-098	Sedgewick Drive and Windom Place	No
07100-1048	First Colonial Road and I-264	No
08100-002	Dukes Lane and Virginia Beach Boulevard	No
08100-156	Dozier Lane and Virginia Beach Boulevard	No
10130-298	Seaboard Road and Smokehouse Road	No
10140-015	Crossroad Trail and Mill Wheel Court	Yes
10140-1171	Grapevine Circle and Jonquil Court	Yes
10160-006	Pine View Avenue and Windy Pines Bend	Yes
10160-348	Broomsedge Trail and Glenmore Hunt Trail	No
10160-862	Wandsworth Drive and Weybridge Drive	No
10160-898	Bromley Court and Finsbury Lane	No
10220-208	1st Settlers Avenue and Holland Road	Yes

Site ID	Intersection	Flow Observed
10240-013	Courthouse Drive and North Landing Road	No
10240-142	George Mason Drive and Mattaponi Road	Yes
10240-220	Courthouse Drive and James Madison Boulevard	Yes
10240-858	North Landing Road and Magnolia Green Loop	No
10260-1002	Creekstone Court and Holland Road	No
10260-1161	Courthouse Drive and Nimmo Parkway	No
10300-086	Chestwood Drive and Rose Petal Drive	Yes
10300-200	Chestwood Bend and Chestwood Drive	Yes
10320-194	Chicory Street and Winterberry Lane	Yes
10320-384	Glastonbury Drive and Monet Drive	Yes
10340-002	Abbotsbury Way and Wakehurst Court	Yes
10360-1082	Dam Neck Road and Rosemont Road	No
10360-1104	Dam Neck Road and Rosemont Road	No
10360-1106	Dam Neck Road and Rosemont Road	No
10360-1234	Concert Drive and South Rosemont Road	Yes
10360-1266	Concert Drive and South Rosemont Road	No
10360-1444	Dam Neck Road and Holland Road	No
10360-1452	Dam Neck Road and Holland Road	Yes
10360-1506	Dam Neck Road and Holland Road	No
10360-1637	Holland Road and Shipps Corner Road	Yes
10360-1724	Holland Road and Laurel Oak Lane	No
10360-2006	Concert Drive and University Drive	Yes
10360-2048	Concert Drive and University Drive	No
10360-2198	Dam Neck Road and Landstown Court	No
10360-2280	Dam Neck Road and Vinedresser Way	No
10360-416	Purebred Drive and Stewards Way	No
10360-512	Buckner Boulevard and Crofts Pride Drive	No
10360-558	Pasture Lane and Stirrup Way	No
10360-922	Dam Neck Road and Rosemont Road	No
10360-928	Dam Neck Road and Rosemont Road	No
10360-940	Dam Neck Road and Rosemont Road	Yes
10360-966	Dam Neck Road and Rosemont Road	No
10380-040	Mayfield Drive and Slalom Drive	Yes
10380-092	Olympic Drive and Slalom Drive	No
10380-116	Placid Place and Sentinel Court	No
10380-142	Olympic Court and Olympic Drive	No
10380-172	Mirror Lake Drive and Olympic Drive	No
10380-293	Decathlon Drive and Killey Court	No
10380-368A	Mirror Lake Court and Mirror Lake Drive	Yes
10380-476	Mirror Lake Drive and Winter Park Court	No
10400-064	Springhaven Drive and Windy Pines Bend	No

Site ID	Intersection	Flow Observed
10400-342	Seven Kings Road and Tower Bridge Loop	No
10430-000	Harpers Road and Nimitz Drive	No
10480-082	Aviator Drive and Taylor Farm Road	No
10500-052	Dam Neck Road and Drakesmile Road	Yes
10530-032	Performance Court and Taylor Farm Road	No
10530-102	Aviator Drive and Taylor Farm Road	No
10530-130	Mulch Landing Road and Taylor Farm Road	No
10700-000	Dam Neck Road and Rosemont Road	No
10830-010	Saint Regis Circle and Saint Regis Lane	Yes
12260-414	Blue Knob Road and Old Ridge Road	No
13050-172	Brannon Drive and Pons Drive	No
13070-150	Grey Friars Chase and Lynnhaven Parkway	No
17100-030	Rosaer Lane and Rosaer Place	Yes
18090-210	Auburn Drive and South Military Highway	No
21020-114	Capot Road and Challedon Drive	Yes
21070-326	Little Drive and Rouse Drive	No
29120-000	General Booth Boulevard and Headquarters Road	No
29140-100	Long Hill Drive and North Lynnhaven Road	No
30010-3051	West Great Neck Road and Lynnhaven Drive	No
30010-5430	Destination Lane and First Colonial Road	Yes
30010-5444	Destination Lane and First Colonial Road	Yes
30500-160	Dey Cove Drive and Tether Keep	No
31550-012	South Oliver Drive and Sheldon Drive	No
H10615-A1	Brigands Way and Schooner Strait Court	No
J11604-200	Mansion Cross Lane and Strawbridge Road	Yes
J11604-3	Mayberry Drive and Mount Airy Court	No
P-461	Bow Creek Boulevard and Lamplight Lane	No

Appendix H
Results and Follow-Up Actions for Dry Weather Screening

Summary of Dry Weather Screening Follow-Up Actions

Station Asset ID: 06400-GR-868 Location/Address: Near the intersection of Dahlia Drive and Ohare Drive Date Observed: 10/21/2025 Date Resolved/Closed: 3/26/2026	**Investigation, Follow-Up, and Resolution** Inspectors observed moderate flow at a structure upstream of the station. Water sampling showed a water quality exceedance for copper. The source of flow was suspected to be groundwater infiltration. Additional bacteria testing was performed and a follow up investigation in the spring during low tide confirmed the source was groundwater. This investigation was resolved.
Station Asset ID: 07060-441 Location/Address: Near the intersection of Mountain Laurel Trail and Wolfsnare Road Date Observed: 11/7/2025 Date Resolved/Closed: 3/20/2026	**Investigation, Follow-Up, and Resolution** Inspectors observed moderate flow at the station along with orange benthic growth. Water sampling showed a water quality exceedance for copper. The source of flow was suspected to be groundwater infiltration. Additional bacteria testing was performed and a follow up investigation in the spring during low tide confirmed the source was groundwater. This investigation was resolved.
Station Asset ID: 10320-194 Location/Address: Near the intersection of Chicory Street and Winterberry Lane Date Observed: 3/26/2026 Date Resolved/Closed:4/15/2026	**Investigation, Follow-Up, and Resolution** Inspectors observed moderate flow at a structure upstream of the station. Water sampling showed a water quality exceedance for copper, fluoride, and turbidity. The source of flow was determined to be groundwater infiltration. This investigation was resolved.
Station Asset ID: 10320-384 Location/Address: Near the intersection of Glastonbury Drive and Monet Drive Date Observed: 3/26/2026 Date Resolved/Closed: 4/15/2026	**Investigation, Follow-Up, and Resolution** Inspectors observed moderate flow at three structures upstream of the station. Water sampling showed a water quality exceedance for fluoride, copper, and turbidity. The source of the flow was determined to be groundwater infiltration This investigation was resolved.

Summary of Dry Weather Screening Follow-Up Actions

Station Asset ID: 10380-036 Location/Address: Near the intersection of Mayfield Drive and Slalom Drive Date Observed: 3/31/2026 Date Resolved/Closed: 4/15/2026	**Investigation, Follow-Up, and Resolution** Inspectors observed moderate flow at a structure upstream of the station. Water sampling showed a water quality exceedance for copper. Follow up investigations found no exceedances. The source of flow was determined to be groundwater infiltration with an intermittent copper source that is no longer present. This investigation was resolved.
Station Asset ID: 21020-114 Location/Address: Near the intersection of Capot Road and Challedon Drive Date Observed: 1/14/2026 Date Resolved/Closed: 5/6/2026	**Investigation, Follow-Up, and Resolution** Inspectors observed moderate flow at a structure upstream of the station. Water sampling showed an elevated level of bacteria. Follow-up investigations found no exceedance and bacteria levels were below detectable limits. The source of flow was determined to be an intermittent source that is no longer present. This investigation was resolved.
Station Asset ID: 29120-000 Location/Address: Near the intersection of General Booth Boulevard and Headquarters Road Date Observed: 11/7/2025 Date Resolved/Closed: 3/20/2026	**Investigation, Follow-Up, and Resolution** Inspectors observed moderate flow at a structure upstream of the station. Water sampling showed a water quality exceedance for fluoride. The source of flow was determined to be groundwater infiltration. This investigation was resolved.