

City of Petersburg, Virginia

Municipal Separate Storm Sewer System Program Plan

Reporting Period: November 1, 2023 – October 31, 2028

Permit Number: VAR040013

**In compliance with the General VPDES Permit for Discharges of
Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)**



April 2024



TABLE OF CONTENTS

INTRODUCTION..... 3

MINIMUM CONTROL MEASURES 5

MCM 1 - Public Education and Outreach..... 5

MCM 2 - Public Involvement and Participation..... 8

MCM 4 - Construction Site Stormwater Runoff and Erosion and Sediment Control..... 13

MCM 5 - Post Construction Stormwater Management for New Development and Development on Prior Developed Lands..... 15

MCM 6 - Pollution Prevention and Good Housekeeping for Facilities Owned or Operated by the Permittee Within the MS4 Service Area 18

SPECIAL CONDITIONS..... 20

Chesapeake Bay TMDL and Local TMDLs..... 20

LIST OF TABLES

Table 1 – Referenced Documents 4

Table 2 – Public Education and Outreach Plan..... 6

Table 3 – Public Involvement and Participation..... 9

APPENDICES

- APPENDIX A:** - MS4 Roles and Responsibilities and Contact Information
- General Permit for Discharges of Stormwater from Small MS4 Permit and Approval Letter
- APPENDIX B:** MCM 1 Resources
- Pet Waste Fact Sheets
- Anti-Litter Fact Sheets
- Recycling Fact Sheets
- Private SWM Facility Maintenance Brochure
- APPENDIX C:** MCM 2 Resources
- Recycling Collection Schedules
- Adopt-A-Spot Application
- APPENDIX D:** MCM 3 Resources
- Municipal Separate Storm Sewer Outfall Map
- Municipal Separate Storm Sewer Outfall Database
- APPENDIX E:** MCM 5 Resources
- Stormwater Management Facility Database
- VSMP Approval Letter
- APPENDIX F:** MCM 6 Resources
- SWPPP Implementation Plan
- Nutrient Management Plans Implementation Schedule
- City Contract Procurement Terms for Good Housekeeping



ACRONYMS & ABBREVIATIONS

Bay	Chesapeake Bay
BMP	Best management practice
CITY	City of Petersburg
CWA	Clean Water Act
DEQ	Virginia Department of Environmental Quality
DPU	Petersburg Department of Public Utilities
DPW	Petersburg Department of Public Works
EMA	Easement and Maintenance Agreement
EPA	United States Environmental Protection Agency
GIS	Geographic information systems
HHW	Household Hazardous Wastes
HUC	Hydrologic Unit Code
IDDE	Illicit Discharge Detection and Elimination
MS4	Municipal Separate Storm Sewer System
NMP	Nutrient Management Plan
SWM	Stormwater Management
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
VPDES	Virginia Pollution Discharge & Elimination System Permit
VSMP	Virginia Stormwater Management Program



INTRODUCTION

The City of Petersburg is an independent City located in the central part of the Commonwealth of Virginia and is surrounded by Chesterfield, Prince George, and Dinwiddie Counties and the City of Colonial Heights. Portions of the City are within a US Census-designated urbanized area and thus subject to the *General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4s)*, which became effective November 1, 2023 and will expire on October 31, 2028. A MS4 is “a conveyance or system of conveyances otherwise known as a municipal separate storm sewer system, including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains:

1. Owned or operated by a federal, state, City, town, county, district, association, or other public body, created by or pursuant to state law, having jurisdiction or delegated authority for erosion and sediment control and stormwater management, or a designated and approved management agency under § 208 of the *Clean Water Act (CWA)* that discharges to surface waters;
2. Designed or used for collecting or conveying stormwater;
3. That is not a combined sewer; and
4. That is not part of a publicly owned treatment Utility.

The MS4 permit requires the City to develop a MS4 Program Plan (this document). Modifications to the MS4 Program Plan are expected throughout the life of the permit as part of the iterative process to reduce pollutant loadings and to protect water quality. The Program Plan will be evaluated for appropriateness and updated annually as necessary. Annual reports summarizing the collective efforts and program changes from the previous reporting year will be submitted to the Department of Environmental Quality (DEQ) no later than October 1 of each year.

The objective of this Program Plan is to provide the framework for the City of Petersburg to continually evaluate the effectiveness of the stormwater management program in reducing nonpoint source pollution from MS4 regulated areas during the permit term. The following MS4 Program Plan is a management tool for the City of Petersburg to comply with the six minimum control measures of the general permit, enforceable by the requirements included in the VPDES permit. **Section MCM 1** through **Section MCM 6** describe the City of Petersburg’s plan to comply with the corresponding minimum control measures (MCM) listed below:

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff and Erosion and Sediment Control
5. Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands
6. Pollution Prevention and Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area.

A description of the roles and responsibilities, policies and procedures, measurable goals, and implementation schedules, if applicable, are provided for each MCM in their corresponding



section or in an associated appendix. Note: policies and procedures are internal documents intended to provide program plan implementation guidance to staff. As the VPDES permit requires establishment of policies and procedures for various program components but does not dictate the details of the policies and procedures, the City of Petersburg reserves the right to update and revise any internal policies and procedures at any time and in any manner.

Section SC describes Petersburg’s plan to comply with the Chesapeake Bay Total Maximum Daily Load (TMDL) Special Conditions, as well as any other Local TMDL’s that the City may have.

Documents incorporated by reference as part of this Plan are presented in **Table 1**, below:

Table 1 – Referenced Documents

Document Title	Date	Available Location
Clean Water Act	November 27, 2002	https://www.epa.gov/sites/production/files/2017-08/documents/federal-water-pollution-control-act-508full.pdf
City of Petersburg Code of Ordinances	February 6, 2024, or current version	https://library.municode.com/va/petersburg/codes/code_of_ordinances?nodeId=COPEVI
Illicit Discharge Detection and Elimination Procedures and Checklists	April 2024	Available upon request
VSMP Policies and Procedures Manual	April 2024	Available upon request
Stormwater Management Facility Inspection Procedures	April 2024	Available upon request
Pollution Prevention and Good Housekeeping Standard Operating Procedures	April 2024	Available upon request
Municipal Employee Training Plan and Schedule	April 2024	Available upon request
Local TMDL Action Plan	April 2024	http://www.petersburg-va.org/295/Stormwater-Management .
Chesapeake Bay TMDL Action Plan	April 2024	http://www.petersburg-va.org/295/Stormwater-Management .

Other related links to information about the City’s Stormwater Program can be viewed on the City’s Stormwater Utility webpage: <http://www.petersburg-va.org/295/Stormwater-Management>.



MINIMUM CONTROL MEASURES

MCM 1 - Public Education and Outreach

Permit Requirements (Part I.E.1.f)

The MS4 Program Plan shall include:

1. A list of the high-priority stormwater issues the permittee will communicate to the public as part of the public education and outreach program;
2. The rationale for selection of each high-priority stormwater issue and an explanation of how each education or outreach strategy is intended to have a positive impact on stormwater discharges;
3. Identification of the target audience to receive each high-priority stormwater message;
4. Nontraditional permittees may identify staff, students, members of the general public, and other users of facilities operated by the permittee as the target audience for education and outreach strategies;
5. Traditional permittees may identify staff and students as part of the target audience for education and outreach strategies; however, staff shall not be the majority of the target audience;
6. Staff training required in accordance with Part **I.E.6.d** does not qualify as a strategy for public education and outreach;
7. The strategies from Table 1 of **Part I.E.1.d** to be used to communicate each high-priority stormwater message; and
8. The anticipated time periods the messages will be communicated or made available to the public.

Responsible Parties (Refer to Appendix A)

1. Stormwater Program Manager
2. Public Information Officer

Program Description

The City of Petersburg has developed a public education and outreach program designed to:

- Increase public's knowledge of how to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns;
- Increase public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications, and;
- Implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.

The City has chosen three high-priority stormwater issues to meet the overarching goal of educating the public in accordance with the program priorities stated above, as presented in **Table 2**. When communicating the high-priority issues, the City will strive to clearly identify the high-priority stormwater issues; explain the importance of the high-priority stormwater issues; include measures or actions the public can take to minimize the impact of the high-priority stormwater issues, and provide a contact and telephone number, website, or location where the public can find



out more information. The City will implement the Public Education and Outreach Program and utilize strategies to educate larger audiences each year on each selected high-priority issue.

Table 2 – Public Education and Outreach Plan

High Priority Issue	Bacteria	Litter	Maintenance of private SWM Facilities
Rationale for Selection	Pet waste is a significant contributor of E. coli into the surface waters; a local bacteria TMDL already exists for the Appomattox River. Pet owners need to be aware that pet waste is not fertilizer and pet waste runoff impacts the health of our streams. The goal is to reduce the amount of pet waste runoff to reduce bacteria loads entering the waterways.	Improper trash disposal is evident throughout the MS4 area; litter causes maintenance issues (clogged storm drains) and pollution of surface waters. The goal is to raise awareness of maintenance issues and pollution created by litter to ultimately reduce the amount of litter carried by stormwater.	Very few maintenance agreements exist for private SWM facilities within the City. The goal of the program is to educate private SWM facility owners of their responsibilities and encourage routine maintenance of private stormwater management facilities to ensure proper function.
Identification of Public Audience	Social Media Followers and Pet Owners	Social Media Followers	Private SWM Facility owners
Strategy to Communicate Issue	Signage: pet waste disposal stations; and/or Media Materials: distribution of fact sheets, see Appendix B.	Media Materials: distribution of fact sheets, see Appendix B.	Written Materials: mailings of printed material, see Appendix B.
Anticipated Time Period Message will be Communicated	Pet waste disposal stations will be routinely maintained. Social media posts will be made annually.	Social media posts will be made annually.	Printed materials will be delivered annually.

Measurable Goals

The City’s goal is to educate pet owners on their impact to bacteria loads to receiving streams, educate social media followers on ways to prevent litter from entering local waterways, and educate private SWM Facility owners on proper BMP maintenance procedures. The Stormwater Program Manager will annually evaluate the effectiveness of the City’s Public Education and Outreach efforts at addressing the City’s high priority issues, and will document the following in the Annual Report: number of pet waste fact sheets posts to social media and the number of pet waste stations and signage maintained by City; number of anti-litter posts to social media are made; number of fact sheets on SWM facility maintenance distributed by mail (**Appendix B**).

Related Links

Additional information on the City’s Public Education and Outreach program can be found on the webpages below:



City of Petersburg - <http://www.petersburg-va.org/295/Stormwater-Management>

James River Association - <https://thejamesriver.org/>

James River Pet Waste Coalition - <http://www.mjrt.org/james-river-pet-waste-coalition.html>

CVWMA - <https://cvwma.com/cvwma-locations/petersburg/>

Annual Reporting Requirements

1. A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program;
2. A summary of the public education and outreach activities conducted for the report year, including the strategies used to communicate the identified high-priority issues;
3. A description of any changes in high-priority stormwater issues, including, strategies used to communicate high-priority stormwater issues or target audiences for the public education and outreach plan. The permittee shall provide a rationale for any of these changes; and
4. A description of public education and outreach activities conducted that included education regarding climate change.



MCM 2 - Public Involvement and Participation

Permit Requirements (Part I.E.2.e)

The MS4 Program Plan shall include:

1. The webpage address with mechanisms for the public to report (i) potential illicit discharges, improper disposal, or spills to the MS4, (ii) complaints regarding land disturbing activities, or (iii) other potential stormwater pollution concerns;
2. The webpage address that contains the methods for how the public can provide input on the permittee's MS4 program; and
3. A description of the public involvement activities to be implemented by the permittee, the anticipated time period the activities will occur, and a metric for each activity to determine if the activity is beneficial to water quality. An example of metrics may include the weight of trash collected from a stream cleanup or the number of participants in a hazardous waste collection event.

Responsible Parties (Refer to Appendix A)

1. Stormwater Program Manager
2. DPW/DPU Director
3. DPW Street Operations, General Manager

Program Description

The City maintains a MS4 webpage that hosts the City's effective MS4 permit and coverage letter, the current MS4 Program Plan, previous Annual Reports, the Chesapeake Bay TMDL Action Plan, the Chesapeake Bay TMDL Implementation Annual Status Reports, and the Local TMDL Action Plan: <http://www.petersburg-va.org/295/Stormwater-Management>. Information for how the public can provide input on the permittee's MS4 program are provided on the City's Stormwater webpage.

The City's webpage provides a link to "Report a Concern – Citizen Complaint," a platform where the public can report potential illicit discharges, improper disposal, spills to the MS4, complaints regarding land disturbing activities, or other potential stormwater concerns in the City's Request Tracker (<http://www.petersburgva.gov/729/Request-Tracker>). The City maintains electronic records of all input or complaints received on the MS4 Program, as well as City responses.

The City has participated and will continue to participate in four public involvement activities, as presented in **Table 3**. These activities aim to encourage public involvement with stormwater and environmental activities.



Table 3 – Public Involvement and Participation

Public Involvement Activities	Description	Anticipated Time Periods	Metrics
Household Drop-off Recycling Program (Collection)	The City will continue to provide residents with recycling carts to promote the collection and proper disposal of recyclables.	The City will provide each eligible household with one recycling cart.	The number of households enrolled in the recycling program.
City-wide Cleanups (Restoration)	The City will continue to participate in city-wide cleanups as a sponsor and/or host to reduce the volume of waste in the City.	The City will engage in a city-wide cleanup at least once a year.	The number of participants or amount of waste collected per event will be documented in the annual report.
Watershed Cleanup (Restoration)	The City will continue to implement local watershed cleanups as a sponsor and/or host in order to engage citizens to take action and clean up a local area.	The City will engage in at least one activity, annually.	The number of participants or amount of waste collected per event will be documented in the annual report.
Pollution Prevention	Through the Adopt-A-Street, Adopt-A-Spot programs and Adopt-A-Block, caring citizens take part in preserving and maintaining streets throughout the City. A wide range of community organizations, like civic groups, businesses, schools, and churches, adopt sections of road in or near their communities. Participants remove litter from those segments at least four times a year for a minimum of two years.	The City will offer the program annually.	The number of participating entities will be documented in the annual report.

Measurable Goals

The City’s goal is an effective public involvement and participation program to reduce key pollutants in the MS4 area. The Stormwater Program Manager will annually evaluate the effectiveness of the Public Involvement and Participation activities by analyzing the associated metrics tracked for each activity presented in **Table 3**. Should the City be unable to execute one of the programs specified above, an appropriate substitute program will be identified and completed as an alternative. The recycling schedule for the City and a copy of the Adopt-A-Spot application are included in **Appendix C**.

Related Links

Additional information on the City’s Public Involvement and Participation program can be found on the webpages below:



City of Petersburg - <http://www.petersburg-va.org/295/Stormwater-Management>
City of Petersburg Report a Concern - <http://www.petersburgva.gov/729/Request-Tracker>
Central Virginia Waste Management Authority - <http://cvwma.com/>
James River Association - <https://thejamesriver.org/>
Friends of the Lower Appomattox River - <https://folar-va.org/>

Annual Reporting Requirements

1. A summary of any public comments on the MS4 program received and how the permittee responded;
2. A summary of stormwater pollution complaints received under the procedures established in Part **I.E.2.a** (1), excluding natural flooding complaints, and how the permittee responds;
3. A webpage address to the permittee's MS4 program and stormwater website;
4. Federal and state nontraditional permittees with security policies preventing the MS4 program and stormwater pollution prevention webpage from being publicly accessible utilizing an internal staff accessible website, such as intranet, shall provide evidence of the current internal MS4 program and stormwater pollution prevention webpage;
5. A description of the public involvement activities implemented by the permittee, including any efforts to reach out and engage all economic and ethnic groups;
6. A description of public education and outreach activities conducted that also included education regarding climate change;
7. A report of the metric as defined for each activity and an evaluation as to whether the activity is beneficial to improving water quality; and
8. The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities.



MCM 3 - Illicit Discharge Detection and Elimination

Permit Requirements (Part I.E.3.d)

The MS4 Program Plan shall include:

1. The MS4 map and outfall information table required by **Part I.E.3.a**. The map and outfall information table may be incorporated into the MS4 program plan by reference. The map shall be made available to the department within 14 days upon request;
2. Copies of written notifications of physical interconnections given by the permittee to other MS4s; and
3. The IDDE procedures described in **Part I.E.3.c**.

Responsible Parties (Refer to Appendix A)

1. Stormwater Program Manager
2. DPW Utilities Division, General Manager
3. Fire Marshall

Program Description

The City has developed and maintains an accurate MS4 Map that includes, at a minimum, the permit requirements listed in **Part I.E.3.a.1**. The City has also developed and maintains an outfall information table for each outfall or point of discharge that includes the requirements listed in **Part I.E.3.a.2**. A hard copy print of the map and database are provided in **Appendix D**. Copies of written notifications of new or discovered physical interconnections given to other MS4s will be included as an appendix to the Program Plan, as developed.

The discharge of any unauthorized non-stormwater substances into the City's storm sewer systems is strictly prohibited by the City's [Stormwater Code](#). If there is an illegal discharge to the MS4, the City has Standard Operating Procedures to assess the situation and take the best plan of action. The *Standard Operating Procedure for Detecting and Eliminating Non-Stormwater Discharges to the MS4* and the *Standard Operating Procedure for MS4 Outfall Screening*, are referenced in **Table 1**. The City performs outfall dry weather screening per **Part I.E.6.c.2**. Outfalls are prioritized for field screening by the City in accordance with the Standard Operating Procedures referenced above. Dry weather discharges, if observed, are investigated in accordance with the Standard Operating Procedures. Any detections suspected of being sanitary sewage or significantly contaminated discharges shall take priority. Enforcement actions and legal penalties shall be used for incidents of illicit discharge, when necessary, by the City. Incidents of illicit discharges, as well as the outcome of investigations and any follow up investigations or actions will be tracked in the City's database.

Measurable Goals

The City's goal is to reduce or eliminate non-stormwater discharges. Progress toward reaching the goal is measured by permit compliance, including annual updates to the MS4 Map, annual dry weather screening, and tracking and eliminating prohibited non-stormwater discharges to the MS4. The Stormwater Program Manager will annually evaluate the City's progress, by tracking and reporting on the permit requirements in the Annual Report.



Annual Reporting Requirements

1. A confirmation statement that the MS4 map and outfall information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year;
2. The total number of outfalls and observation points screened during the reporting period as part of the dry weather screening program; and
3. A list of illicit discharges to the MS4, including spills reaching the MS4 with information as follows:
 - a. The location and source of illicit discharge;
 - b. The dates that the discharge was observed, reported, or both;
 - c. Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe);
 - d. How the investigation was resolved;
 - e. A description of any follow-up activities; and
 - f. The date the investigation was closed.



MCM 4 - Construction Site Stormwater Runoff and Erosion and Sediment Control

Permit Requirements (Part I.E.4.b)

The Permittee's MS4 Program Plan shall include:

1. If the permittee implements an erosion and sediment control program for construction site stormwater runoff in accordance with Part **I.E.4.a** (1), the local ordinance citations for the VESCP program;
2. If the permittee is a town that does not implement an erosion and sediment control program for construction site stormwater runoff in accordance with Part **I.E.4.a** (2), the county ordinance citations for the VESCP program the town is subject to;
3. If the permittee implements annual standards and specifications for erosion and sediment control and construction site stormwater runoff in accordance with Part **I.E.4.a** (3):
 - a. The most recently approved standards and specifications or if incorporated by reference, the location where the standards and specifications can be viewed; and
 - b. A copy of the most recent standards and specifications approval letter from the department;
4. A description of the legal authorities utilized to ensure compliance with Part **I.E.4.a** for erosion and sediment control and construction site stormwater runoff control, such as ordinances, permits, orders, specific contract language, policies, and interjurisdictional agreements;
5. For traditional permittees, written inspection procedures to ensure VESCP requirements are maintained in accordance with **9VAC25-840-90 A** and onsite erosion and sediment controls are properly implemented in accordance with **9VAC25-840-60 B**;
6. For nontraditional permittees, erosion and sediment control plans or annual standards and specifications shall be approved by the department in accordance with **§ 62.1-44.15:55** of the Code of Virginia. Compliance with approved erosion and sediment control plans or annual standards and specifications shall be ensured by the permittee with written inspection procedures that at minimum include the following:
 - a. An inspection checklist for documenting onsite erosion and sediment control structures and systems are properly maintained and repaired as needed to ensure continued performance of their intended function; and
 - b. A list of all associated documents utilized for inspections, including checklists, department approved erosion and sediment control plans, or the most recently approved department annual standards and specifications, and any other documents utilized;
7. Traditional permittees shall maintain written procedures for requiring VESCP compliance through corrective action or enforcement action in accordance with **§ 62.1-44.15:58** of the Code of Virginia;
8. Nontraditional permittees shall maintain written procedures for requiring compliance with department approved erosion and sediment control plans and annual standards and specifications through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms; and
9. The roles and responsibilities of each of the permittee's departments, divisions, or subdivisions in implementing erosion and sediment control and construction site stormwater runoff control requirements in **Part I.E.4**.



Responsible Parties (Refer to Appendix A)

1. Stormwater Program Manager

Program Description

The City currently implements a Virginia Erosion and Sediment Control Program (VESCP) to control construction site stormwater runoff consistent with the permit requirements listed in permit requirements. The program is authorized by the City of Petersburg Code: Chapter 50 Article IV. – [Stormwater Management](#) and Article V – [Erosion and Sediment Control](#), Chapter 58 Article II - [Floodplain Management](#), and Chapter 122 Article II – [Chesapeake Bay Preservation Act](#) Areas.

Refer to the City's *VSMP Policies and Procedures Manual* (**available upon request**) for the methods the City utilizes to implement the permit requirements. Additional program information and supporting guidance can be found at the following webpage:

<http://www.petersburg-va.org/295/Stormwater-Management>

Measurable Goals

The City's goal is to operate a compliant Erosion and Sediment Control and Stormwater Management Program. The MS4 Operations Manager will annually evaluate the City's efforts at maintaining permit compliance by reporting on the total number of erosion and sediment control inspections and associated compliance or enforcement actions in the Annual Report.

Annual Reporting Requirements

1. Total number of erosion and sediment control inspections conducted;
2. Total number of each type of compliance action and enforcement action implemented; and
3. For nontraditional permittees:
 - a. A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved annual standards and specifications for erosion and sediment control; and
 - b. If any land disturbing projects were conducted without department approved annual standards and specifications, a list of all land disturbing projects that occurred during the reporting period with erosion and sediment control plan approval dates for each project.



MCM 5 - Post Construction Stormwater Management for New Development and Development on Prior Developed Lands

Permit Requirements (Part I.E.5.h)

The MS4 Program Plan shall include:

1. If the permittee implements a VSMP in accordance with Part **I.E.5.a** (1), (2), or (3):
 - a. A copy of the VSMP approval letter issued by the department;
 - b. Written inspection procedures and all associated documents utilized in the inspection of privately owned stormwater management facilities; and
 - c. Written procedures and compliance and enforcement of inspection and maintenance requirements for privately owned stormwater management facilities;
2. If the permittee implements a post-development stormwater runoff control program in accordance with Part **I.E.4.a** (4):
 - a. The most recently approved standards and specifications or if incorporated by reference, the location where the standards and specifications can be viewed; and
 - b. A copy of the most recent standards and specifications approval letter from the department;
3. A description of the legal authorities utilized to ensure compliance with **Part I.E.5.a** for post-construction stormwater runoff control such as ordinances (provide citation as appropriate), permits, orders, specific contract language, and interjurisdictional agreements.
4. Written inspection and maintenance procedures and other associated template documents utilized during inspection and maintenance of stormwater management facilities owned or operated by the permittee; and
5. The roles and responsibilities of each of the permittee's departments, divisions, or subdivisions in implementing the post-construction stormwater runoff control program.

Responsible Parties (Refer to Appendix A)

1. Stormwater Program Manager
2. Planning & Zoning Department, Director

Program Description

The City currently implements a program to control post-construction site stormwater runoff consistent with the permit requirements. The program is authorized by the City of Petersburg Code Chapter 50, Article IV – *Stormwater Management*. The City's *Policies and Procedures Manual* elaborates on the methods used for inspection and compliance of Stormwater Management Facilities (**Table 1**). A Copy of the City's General Permit for Discharges from Small MS4 and Approval Letter issued by the Department is presented in **Appendix E**.

A copy of the SCM tracking database is presented in **Appendix E**:

- The City will use the *DEQ Construction Stormwater Database* (<https://apps.deq.virginia.gov/swcgp>) or other application as specified by the Department to report each stormwater management facility installed after July 1, 2014, to address the



control of post-construction runoff from land disturbing activities for which the permittee is required to obtain a *General VPDES Permit for Discharges of Stormwater for Construction Activities*.

- No later than October 1 of each year, the City will electronically report the stormwater management facilities and BMPs implemented between July 1 and June 30 of each year using the *DEQ BMP Warehouse* (<http://apps.deq.virginia.gov/BMP>) and associated reporting template for any practices not reported in accordance with **Part I.E.5.f** including stormwater management facilities installed to control post-development stormwater runoff from land disturbing activities less than one acres in accordance with the Chesapeake Bay Preservation Act regulations (9VAC25-830) and for which a *General VPDES permit for Discharges of Stormwater from Construction Activities* was not required.

Additional program information and supporting guidance can be found at the following webpage: <http://www.petersburg-va.org/295/Stormwater-Management>.

Measurable Goals

The City's goal is to require installation of post-construction stormwater control measures (SCM) in accordance with the VSMP, and to effectively track inspection and required maintenance of all SCM in accordance with the requirements of the permit. The Stormwater Program Manager will annually evaluate the City's progress toward post-construction stormwater management goals by reporting on the permit requirements, including the number of SCM inspected.

Annual Reporting Requirements

1. If the traditional permittee implements a VSMP in accordance with Part I.E.5.a (1), (2), or (3):
 - a. The number of privately-owned stormwater management facility inspections conducted; and
 - b. The number of enforcement actions initiated by the permittee to ensure long-term maintenance of privately-owned stormwater management facilities including the type of enforcement action;
2. Total number of inspections conducted on stormwater management facilities owned or operated by the permittee;
3. A description of the significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection;
4. For traditional permittees as specified in Part I.E.5.a (1), a confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part **III.B.1** or a statement that the permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities (9VAC25-880);



5. A confirmation statement that the permittee electronically reported stormwater management facilities using the DEQ BMP Warehouse in accordance with Part **III.B.1 and 2**; and
6. A confirmation statement that the permittee electronically reported stormwater management facilities inspected using the DEQ BMP Warehouse in accordance with Part **III.B.5**.



MCM 6 - Pollution Prevention and Good Housekeeping for Facilities Owned or Operated by the Permittee Within the MS4 Service Area

Permit Requirements (Part I.E.6.p)

The MS4 Program Plan shall include:

1. A list of written good housekeeping procedures for the operations and maintenance activities as required by Part **I.E.6.a and b**;
2. A list of all high-priority facilities owned or operated by the permittee required to maintain a SWPPP in accordance with **Part I.E.6.g** that includes the facility name, facility location, and the location of the SWPPP hardcopy or electronic document being maintained. The SWPPP for each high-priority facility shall be incorporated by reference;
3. A list of locations for which turf and landscape nutrient management plans are required in accordance with **Part I.E.6.n and s**, including the following information:
 - a. The total acreage covered by each nutrient management plan;
 - b. The DCR approval date and expiration date for each nutrient management plan; and
 - c. The location of the nutrient management plan hardcopy or electronic document being maintained;
4. A summary of mechanisms the permittee uses to ensure contractors working on behalf of the permittees implement the necessary good housekeeping and pollution prevention procedures, and stormwater pollution plans as appropriate; and
5. The written training plan as required in **Part I.E.6.d**.

Responsible Parties (Refer to Appendix A)

1. Stormwater Program Manager
2. DPW Street Operations Division, General Manager
3. Engineer Construction Manager
4. DPW Training Specialist
5. DPW Street Operations General Manager
6. DPW Facilities Management Division, General Manager
7. Dogwood Trace, PGA General Manager
8. Petersburg Area Transit Maintenance Operations Manager
9. Coordinator of Facilities & Operations

Program Description

The City has developed and implemented *Pollution Prevention and Good Housekeeping Standard Operating Procedures (Table 1)* designed to minimize or prevent illicit pollutant discharge from daily operation and maintenance activities such as: road, street, sidewalk and parking lot maintenance, anti-icing or deicing agent application, renovation and significant exterior maintenance activities not covered under a separate VSMP general permit, discharging water pumped from construction and maintenance activities, temporary storage of landscaping materials, maintenance of permittee owned or operated vehicles and equipment, and the application of herbicides, pesticides and fertilizer. A list of high-priority facilities that have a high-potential to discharge (reviewed annually) can be found in **Appendix F**, along with a list of lands that require nutrient management plans that was developed in accordance with **Part I.E.6.p through w**. The



City requires contractors to implement pollutant prevention and good housekeeping procedures through contract procurement language in the General Conditions of each contract (**Appendix F**). Section 2.2 Laws, Permits, and Regulations; the contractor must comply with Local, State, and Federal laws, rules, ordinances, and regulations applicable to the contract and any work done. A training plan and schedule developed in accordance with **Part I.E.6.d 1-6** is included in **Appendix F**.

Measurable Goals

The City's goal is to continue implementing Pollution Prevention and Good Housekeeping protocols for staff performing daily operations. The Stormwater Program Manager will annually evaluate progress toward meeting the City's goal by ensuring maintenance of high priority facility SWPPPs, implementation of Nutrient Management Plans as needed, and by ensuring Contractors are held to the same standards as employees. Further, the Stormwater Program Manager will annually evaluate progress toward meeting the City's training goals by tracking the number of employees that attend stormwater training.

Annual Reporting Requirements

1. A summary of any written procedures developed or modified in accordance with Part **I.E.6.a and b** during the reporting period;
2. A confirmation statement that all high-priority facilities were reviewed to determine if SWPPP coverage is needed during the reporting period;
3. A list of any new SWPPPs developed in accordance with Part **I.E.6.i** during the reporting period;
4. A summary of any SWPPPs modified in accordance with Part **I.E.6.j, 6.l, or 6.m**;
5. The rationale of any high-priority facilities delisted in accordance with Part **I.E.6.l or m** during the reporting period;
6. The status of each nutrient management plan as of June 30 of the reporting year (e.g., approved, submitted and pending approval, and expired); and
7. A list of the training activities conducted in accordance with Part **I.E.6.d**, including the following information:
 - a. The completion date for the training activity;
 - b. The number of employees who completed the training activity; and
 - c. The objectives and good housekeeping procedures covered by the training activity.



SPECIAL CONDITIONS

Chesapeake Bay TMDL and Local TMDLs

Program Description

1. Compliance with the Chesapeake Bay TMDL Special Condition is outlined in the City's most recent TMDL Action Plan, which can be found referenced in **Table 1**.
2. Compliance with the City's Local TMDL Special Condition, which is a bacteria TMDL, is outlined in the City's Local TMDL Action Plan, which can be found referenced in **Table 1**.



APPENDIX A

MS4 ROLES AND RESPONSIBILITIES

The City of Petersburg’s Public Works Department coordinates the City’s municipal separate storm sewer system (MS4) program.

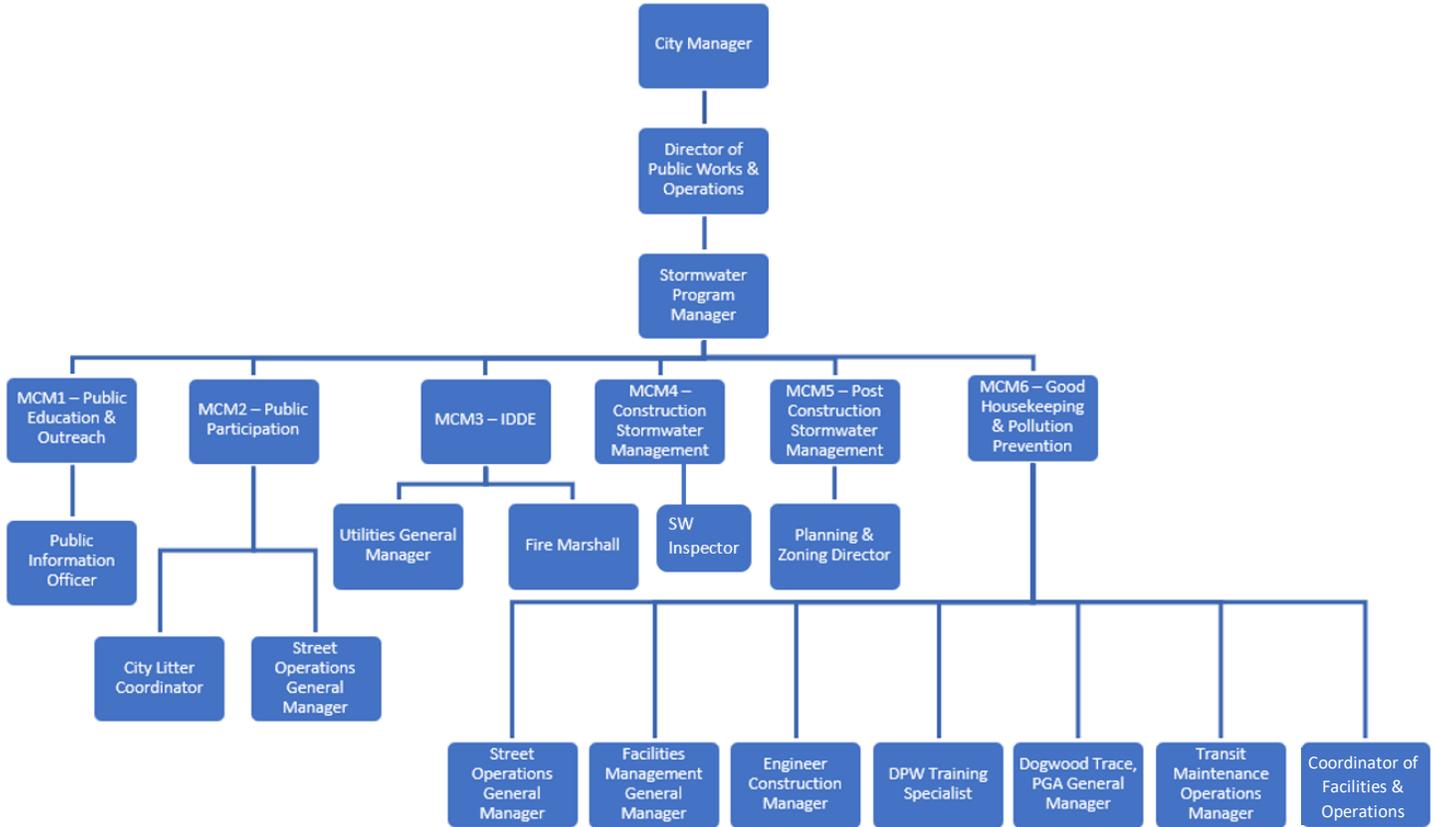


FIGURE 1. STORMWATER UTILITY ORG CHART- MS4 MINIMUM CONTROL MEASURES (MCM)

CONTACT INFORMATION

Program Administration and Oversight

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Email: maltman@petersburg-va.org

Title: Stormwater Program Manager
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Title: Director of Public Works & Utilities
Name: Jerry Byerly
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Email: jbyerly@petersburg-va.org

MS4 Permit-Specific Roles and Responsibilities

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Title: Street Operations General Manager
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Commonwealth of Virginia
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

1111 E. Main Street, Suite 1400, Richmond, Virginia 23219
P.O. Box 1105, Richmond, Virginia 23218
(800) 592-5482

www.deq.virginia.gov

Travis A. Voyles
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director

October 26, 2023

Mr. John M. Altman Jr., City Manager
City of Petersburg
1340 East Washington Street
Petersburg, VA 23803

Transmitted electronically: maltman@petersburg-va.org

Re: General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems General Permit Number VAR040013, City of Petersburg

Dear Mr. Altman:

Department staff has reviewed your Registration Statement and determined that the referenced Municipal Storm Sewer System (MS4) is hereby covered under the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems. The effective date of your coverage under this general permit is November 1, 2023, or the date of this letter, whichever is later. You may obtain a copy of the general permit from <https://law.lis.virginia.gov/admincode/title9/agency25/chapter890/section40/>.

Please submit future permit correspondence and your annual MS4 program reports to Somsiri Youngpattana of the DEQ Piedmont Regional Office at somsiri.youngpattana@deq.virginia.gov. The general permit will expire on October 31, 2028. The conditions of the permit require that you submit a new registration statement on or before August 3, 2028, if you wish to have continued coverage under the general permit.

If you have any questions about this letter or the general permit, please contact Somsiri Youngpattana at 804-659-2706 or somsiri.youngpattana@deq.virginia.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Meghan M. Mayfield'.

Meghan M. Mayfield
Director, Water Permitting



VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

1111 E. Main Street, Suite 1400, Richmond, Virginia 23219

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Matthew J. Strickler
Secretary of Natural Resources

David K. Paylor
Director
(804) 698-4000

October 29, 2023

Aretha R. Ferrell-Benavidas
City Manager
135 North Union Street
Petersburg, VA 23803

Transmitted electronically: Aretha Ferrell-Benavidas via (city.manager@petersburg-va.org)

Re: General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems
General Permit Number VAR040013, City of Petersburg

Dear Permittee:

Department staff has reviewed your Registration Statement and determined that the referenced Municipal Storm Sewer System (MS4) is hereby covered under the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems. The effective date of your coverage under this general permit is November 1, 2023, or the date of this letter, whichever is later. The enclosed copy of the general permit contains the applicable reporting requirements and other conditions of coverage.

Please submit future permit correspondence and your annual MS4 program reports to Mercer Cronemeyer of the DEQ Piedmont Regional Office at mercer.cronemeyer@deq.virginia.gov. The general permit will expire on October 31, 2028. The conditions of the permit require that you submit a new registration statement on or before August 3, 2028 if you wish to have continued coverage under the general permit.

If you have any questions about this letter or the general permit, please contact Mercer Cronemeyer at (804) 527-5024 or mercer.cronemeyer@deq.virginia.gov.

Sincerely,

A handwritten signature in cursive script that reads "Allan Brockenbrough II".

Allan Brockenbrough II, P.E.
Manager, Office of VPDES Permits

Enc. General Permit VAR040013
Cc: Darryl E. Walker, City of Petersburg
Mercer Cronemeyer, DEQ



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

General Permit No.: VAR040013

Effective Date: November 1, 2023

Expiration Date: October 31, 2028

**GENERAL VPDES PERMIT FOR DISCHARGES OF STORMWATER FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS
AUTHORIZATION TO DISCHARGE**

**UNDER THE VIRGINIA STORMWATER MANAGEMENT PROGRAM REGULATIONS, VIRGINIA
POLLUTANT DISCHARGE ELIMINATION SYSTEM REGULATIONS, AND THE VIRGINIA STATE
WATER CONTROL LAW**

In compliance with the provisions of the Clean Water Act, as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, permittees of small municipal separate storm sewer systems are authorized to discharge to surface waters within the boundaries of the Commonwealth of Virginia, except those waters specifically named in State Water Control Board regulations that prohibit such discharges.

The authorized discharge shall be in accordance with the registration statement filed with the department, this cover page, Part I - Discharge Authorization and Special Conditions, Part II - TMDL Special Conditions, Part III - DEQ BMP Warehouse Reporting, and Part IV - Conditions Applicable to All State and VPDES Permits, as set forth in this general permit.

Part I

Discharge Authorization and Special Conditions

- A. Coverage under this state permit. During the period beginning with the date of coverage under this general permit and lasting until the expiration and reissuance of this state permit, the permittee is authorized to discharge stormwater and those authorized nonstormwater discharges described in 9VAC25-890-20 D in accordance with this state permit from the small municipal separate storm sewer system identified in the registration statement into surface waters within the boundaries of the Commonwealth of Virginia and consistent with 9VAC25-890-30.
- B. The permittee shall develop, implement, and enforce an MS4 program designed to reduce the discharge of pollutants from the MS4 to the MEP in accordance with this permit, to protect water quality, and to satisfy the appropriate water quality requirements of the State Water Control Law and its attendant regulations. The permittee shall utilize the legal authority provided by the laws and regulations of the Commonwealth of Virginia to control discharges to and from the MS4. This legal authority may be a combination of statute, ordinance, permit, policy, specific contract language, order, or interjurisdictional agreements. The MS4 program shall include the minimum control measures (MCM) described in Part I E. For the purposes of this permit term, implementation of MCMs in Part I E and the Chesapeake Bay and local TMDL requirements in Part II (as applicable) consistent with the provisions of an iterative MS4 program required pursuant to this general permit constitutes compliance with the standard of reducing pollutants to the MEP, provides adequate progress in meeting water quality standards, and satisfies the appropriate water quality requirements of the State Water Control Law and its attendant regulations. C. The MS4 program plan.
- C. The MS4 program plan.
1. The MS4 program plan shall include, at a minimum, the following written items:
 - a. The roles and responsibilities of each of the permittee's divisions and departments in the implementation of the requirements of the permit tasked with ensuring that the permit requirements are met;
 - b. If the permittee utilizes another entity to implement portions of the MS4 program, a copy of the written agreement. The description of each party's roles and responsibilities, including any written agreements with third parties, shall be updated as necessary;
 - c. For each MCM in Part I E, the following information shall be included:
 - (1) Each specific requirement as listed in Part I E for each MCM;
 - (2) A description of the BMPs or strategies that the permittee anticipates will be implemented to demonstrate compliance with the permit conditions in Part I E;
 - (3) All standard operating procedures or policies necessary to implement the BMPs;
 - (4) The measurable goal by which each BMP or strategy will be evaluated; and
 - (5) The persons, positions, or departments responsible for implementing each BMP or strategy; and

- d. A list of documents incorporated by reference including the version and date of the document being incorporated.
2. If the permittee is receiving initial coverage under this general VPDES permit for the discharge of stormwater, the permittee shall:
 - a. No later than six months following the date of permit coverage, submit to the department a schedule for the development of each component of the MS4 program plan in accordance with Part I C 1 that does not exceed October 31, 2028, unless the department grants a later date; and
 - b. Provide to the department a copy of the MS4 program plan upon completion of development.
 3. If the permittee was previously covered under the General VPDES Permit for Discharges of Stormwater from MS4 effective November 1, 2018, the permittee shall update the MS4 program plan to meet the requirements of this permit no later than six months after the effective date of this permit unless otherwise specified in another permit condition and shall post the most up-to-date version of MS4 program plan on the permittee's website or location where the MS4 program plan can be obtained as required by Part I E 2 within 30 days of updating the MS4 program plan. Until such time that the MS4 program plan is updated in accordance with Part I E, the permittee shall continue to implement the MS4 program plan in effect at the time that coverage is issued under this general permit.
 4. Revisions to the MS4 program plan are expected throughout the life of this permit as part of the iterative process to reduce pollutant loading and protect water quality to the MEP. As such, revisions made in accordance with this permit as a result of the iterative process do not require modification of this permit. The permittee shall summarize revisions to the MS4 program plan as part of the annual report as described in Part I D 3.
 5. The permittee may demonstrate compliance with one or more MCM in Part I E through implementation of separate statutory or regulatory programs provided that the permittee's MS4 program plan identifies and fully describes any program that will be used to satisfy one or more of the minimum control measures of Part I E. If the program that the permittee is using requires the approval of a third party, the program shall be fully approved by the third party, or the permittee shall be working toward getting full approval. Documentation of the program's approval status or the progress toward achieving full approval shall be included in the annual report required by Part I D. The permittee shall remain responsible for compliance with the permit requirements if the other entity fails to implement one or more components of the control measures.
 6. The permittee may rely on another entity to satisfy the permit requirements to implement a minimum control measure if:
 - a. The other entity, in fact, implements the control measure;
 - b. The particular control measure, or component thereof, is at least as stringent as the corresponding permit requirement;
 - c. The other entity agrees to implement the control measure on behalf of the permittee; and

- d. The agreement between the parties is documented in writing and retained by the permittee with the MS4 program plan for as long as the agreement is active.

The permittee shall remain responsible for compliance with requirements of the permit and shall document in the annual reports required in accordance with Part I D that another entity is being relied on to satisfy all or part of the state permit requirements. The permittee shall provide the information required in Part I D.

7. If the permittee relies on another governmental entity regulated under 9VAC25-870-380 to satisfy all of the state permit obligations, including the obligation to file periodic reports required by Part I D, the permittee must note that fact in the registration statement, but is not required to file the periodic reports. The permittee remains responsible for compliance with the state permit requirements if the other entity fails to implement the control measures or components thereof.

D. Annual reporting requirements.

1. The permittee shall submit an annual report to the department no later than October 1 of each year in a method, (i.e., how the permittee must submit) and format (i.e., how the report shall be laid out) as specified by the department; the required content of the annual report is specified in Part I E and Part II B. The report shall cover the previous year from July 1 to June 30.
2. Following notification from the department of the start date for the required electronic submission of annual reports, as provided for in 9VAC25-31-1020, such forms and reports submitted after that date shall be electronically submitted to the department in compliance with this section and 9VAC25-31-1020. There shall be at least a three-month notice provided between the notification from the department and the date after which such forms and reports must be submitted electronically.
3. The annual report shall include the following general information:
 - a. The permittee, system name, and permit number;
 - b. The reporting period for which the annual report is being submitted;
 - c. A signed certification as per Part IV K;
 - d. Each annual reporting item as specified in an MCM in Part I E; and
 - e. An evaluation of the MS4 program implementation, including a review of each MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.
4. For permittees receiving initial coverage under this general VPDES permit for discharge of stormwater, the annual report shall include a status update on each component of the MS4 program plan being developed. Once the MS4 program plan has been updated to include implementation of a specific MCM in Part I E, the permittee shall follow the reporting requirements established in Part I D 3.
5. For those permittees with requirements established under Part II B, the annual report shall include a status report on the implementation of the local TMDL action plans in accordance with Part II B including any revisions to the plan.

6. For the purposes of this permit, the MS4 program plan, annual reports, the Chesapeake Bay TMDL action plan, and Chesapeake Bay TMDL implementation annual status reports shall be maintained as separate documents and submitted to the department as required by this permit as separate documents.

E. Minimum control measures

1. Public education and outreach.

- a. The permittee shall implement a public education and outreach program designed to:
 - (1) Increase the public's knowledge of how to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns;
 - (2) Increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications; and
 - (3) Implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.
- b. The permittee shall identify no fewer than three high-priority stormwater issues to meet the goal of educating the public in accordance with Part I E 1 a. High-priority issues may include the following examples: Chesapeake Bay nutrients, pet wastes, local receiving water impairments, TMDLs, high-quality receiving waters, litter control, BMP maintenance, anti-icing and deicing agent application, planned green infrastructure development, planned ecosystem restoration projects, and illicit discharges from commercial sites.
- c. The high-priority public education and outreach program, as a whole, shall:
 - (1) Clearly identify the high-priority stormwater issues;

Table 1 Strategies for Public Education and Outreach	
Strategies	Examples (provided as examples and are not meant to be all inclusive or limiting)
Traditional written materials	Informational brochures, newsletters, fact sheets, utility bill inserts, or recreational guides for targeted groups of citizens
Alternative materials	Bumper stickers, refrigerator magnets, t-shirts, or drink koozies
Signage	Temporary or permanent signage in public places or facilities, vehicle signage, bill boards, or storm drain stenciling
Media Materials	Information disseminated through electronic media, radio, televisions, movie theater, newspaper, or GIS story maps

Speaking engagements	Presentations to school, church, industry, trade, special interest, or community groups
Curriculum materials	Materials developed for school-aged children, students at local colleges or universities, or extension classes offered to local citizens
Training materials	Materials developed to disseminate during workshops offered to local citizens, trade organization, or industrial officials
Public education activities	Booth at community fair, demonstration of stormwater control projects, presentation of stormwater materials to schools to meet applicable education Standards of Learning or curriculum requirements, or watershed walks
Public meetings	Public meetings on proposed community stormwater management retrofits, green infrastructure redevelopment, ecosystem restoration projects, TMDL development, [climate change's effects on stormwater management], voluntary residential low impact development, or other stormwater issues

(2) Explain the importance of the high-priority stormwater issues;

(3) Include measures or actions the public can take to minimize the impact of the high priority stormwater issues; and

(4) Provide a contact and telephone number, website, or location where the public can find out more information.

- d. The permittee shall use two or more of the strategies listed in Table 1 per year to communicate to the target audience the high-priority stormwater issues identified in accordance with Part I E 1 b, including how to reduce stormwater pollution.
- e. The permittee may coordinate its public education and outreach efforts with other MS4 permittees; however, each permittee shall be individually responsible for meeting all of its state permit requirements.
- f. The MS4 program plan shall include:
- (1) A list of the high-priority stormwater issues the permittee will communicate to the public as part of the public education and outreach program;
 - (2) The rationale for selection of each high-priority stormwater issue and an explanation of how each education or outreach strategy is intended to have a positive impact on stormwater discharges;
 - (3) Identification of the target audience to receive each high-priority stormwater message;
 - (4) Nontraditional permittees may identify staff, students, [members of the general public,] and other users of facilities operated by the permittee as the target audience for education and outreach strategies;

- (5) Traditional permittees may identify staff and students as part of the target audience for education and outreach strategies; however, staff shall not be the majority of the target audience;
 - (6) Staff training required in accordance with Part I E 6 d does not qualify as a strategy for public education and outreach;
 - (7) The strategies from Table 1 of Part I E 1 d to be used to communicate each high-priority stormwater message; and
 - (8) The anticipated time periods the messages will be communicated or made available to the public.
- g. The annual report shall include the following information:
- (1) A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program;
 - (2) A summary of the public education and outreach activities conducted for the report year, including the strategies used to communicate the identified high-priority issues;
 - (3) A description of any changes in high-priority stormwater issues, including, strategies used to communicate high-priority stormwater issues or target audiences for the public education and outreach plan. The permittee shall provide a rationale for any of these changes; and
 - (4) [A description of public education and outreach activities conducted that included education regarding climate change.]
2. Public involvement and participation.
- a. The permittee shall develop and implement procedures for the following:
- (1) The public to report potential illicit discharges, improper disposal, or spills to the MS4, complaints regarding land disturbing activities, or other potential stormwater pollution concerns;
 - (2) The public to provide comments on the permittee's MS4 program plan;
 - (3) Responding to public comments received on the MS4 program plan; and
 - (4) Maintaining documentation of public comments received on the MS4 program and associated MS4 program plan and the permittee's response.
- b. No later than three months after this permit's effective date, the [existing] permittee shall update and maintain the webpage dedicated to the MS4 program and stormwater pollution prevention. The following information shall be posted on this webpage:
- (1) The effective MS4 permit and coverage letter;
 - (2) The most current MS4 program plan or location where the MS4 program plan can be obtained;
 - (3) The annual report for each year of the term covered by this permit no later than 30 days after submittal to the department;

- (4) For permittees whose regulated MS4 is located partially or entirely in the Chesapeake Bay watershed, the most current Chesapeake Bay TMDL action plan or location where the Chesapeake Bay TMDL action plan can be obtained;
 - (5) For permittees whose regulated MS4 is located partially or entirely in the Chesapeake Bay watershed, the Chesapeake Bay TMDL implementation annual status report for each year of the term covered by the permit no later than 30 days after submittal to the department;
 - (6) A mechanism for the public to report potential illicit discharges, improper disposal, or spills to the MS4, complaints regarding land disturbing activities, or other potential stormwater pollution concerns in accordance with Part I E 2 a (1);
 - (7) Methods for how the public can provide comments on the permittee's MS4 program plan in accordance with Part I E 2 a (2) and if applicable, the Chesapeake Bay TMDL action plan in accordance with Part II A 13; and
 - (8) Federal and state nontraditional permittees with security policies preventing an MS4 program and stormwater pollution prevention webpage from being publicly accessible may utilize an internal staff accessible webpage such as an intranet webpage to meet the requirements of Part I E 2 b.
- c. Traditional permittees shall implement no fewer than four activities per year from two or more of the categories listed in Table 2 to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.
 - d. Nontraditional permittees shall implement, promote, participate in, or coordinate on no fewer than four activities per year from two or more of the categories listed in Table 2 to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.

Table 2 Public Involvement Opportunities	
Public involvement opportunities	Examples (provided as example and are not meant to be all inclusive or limiting)
Monitoring	Establish or support citizen monitoring group
Restoration	Stream, watershed, shoreline, beach, or park clean-up day, adopt-a water way program, tree plantings, and riparian buffer plantings

Public education activities	Booth at community fair, demonstration of stormwater control projects, [climate change's effects on stormwater management,] presentation of stormwater materials to schools to meet applicable education Standards of Learning or curriculum requirements, or watershed walks
Public meetings	Public meetings on proposed community stormwater management retrofits, green infrastructure redevelopment, ecosystem restoration projects, TMDL development, voluntary residential low impact development, [climate change's effects on stormwater management,] or other stormwater issues
Disposal or collection events	Household hazardous chemicals collection, vehicle fluids collection
Pollution prevention	Adopt-a-storm drain program, implement a storm drain marking program, promote use of residential stormwater BMPs, implement pet waste stations in public areas, adopt-a-street program.

- e. The permittee may coordinate the public involvement opportunities listed in Table 2 with other MS4 permittees; however, each permittee shall be individually responsible for meeting all of the permit requirements.
- f. The permittee may include staff and students in public participation events; however, the activity cannot solely include or be limited to staff participants with stormwater, groundskeeping, and maintenance duties in order for an event to qualify as a public participation event.
- g. Staff training required in accordance with Part I E 6 d does not qualify as a public participation event unless the training activity solicits participation from target audiences beyond staff or contractors with stormwater, groundskeeping, and maintenance duties.
- h. The MS4 program plan shall include:
- (1) The webpage address where mechanisms for the public to report (i) potential illicit discharges, improper disposal, or spills to the MS4, (ii) complaints regarding land disturbing activities, or (iii) other potential stormwater pollution concerns;
 - (2) The webpage address that contains the methods for how the public can provide input on the permittee's MS4 program; and
 - (3) A description of the public involvement activities to be implemented by the permittee, the anticipated time period the activities will occur, and a metric for each activity to determine if the activity is beneficial to water quality. An example of metrics may include

the weight of trash collected from a stream cleanup or the number of participants in a hazardous waste collection event.

- i. The annual report shall include the following information:
 - (1) A summary of any public comments on the MS4 program received and how the permittee responded;
 - (2) A summary of stormwater pollution complaints received under the procedures established in Part I E 2 a (1), excluding [natural] flooding complaints, and how the permittee responded;
 - (3) A webpage address to the permittee's MS4 program and stormwater website;
 - (4) Federal and state nontraditional permittees with security policies preventing the MS4 program and stormwater pollution prevention webpage from being publicly accessible utilizing an internal staff accessible website, such as intranet, shall provide evidence of the current internal MS4 program and stormwater pollution prevention webpage;
 - (5) A description of the public involvement activities implemented by the permittee, [including any efforts to reach out and engage all economic and ethnic groups];
 - (6) [A description of public education and outreach activities conducted that also included education regarding climate change];
 - (7) A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality; and
 - (8) The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities.
3. Illicit discharge detection and elimination.
 - a. The permittee shall develop and maintain an accurate MS4 map and information table as follows:
 - (1) An updated map of the MS4 owned or operated by the permittee within the [2020] census [urban areas with a population of at least 50,000 and any previous decennial census] urbanized area no later than 24 months after the permit effective date that includes, at a minimum:
 - (a) MS4 outfalls discharging to surface waters, except as follows:
 - (i) In cases where the outfall is located outside of the MS4 permittee's legal responsibility, the permittee may elect to map the known point of discharge location closest to the actual outfall; and
 - (ii) In cases where the MS4 outfall discharges to receiving water channelized underground, the permittee may elect to map the point downstream at which the receiving water emerges above ground as an outfall discharge location. If there are multiple outfalls discharging to an underground channelized receiving water, the map shall identify that an outfall discharge location represents more than one outfall. This is an option a permittee may choose to use and recognizes the

difficulties in accessing outfalls to underground channelized stream conveyances for purposes of mapping, screening, or monitoring;

- (b) A unique identifier for each mapped item required in Part I E 3;
 - (c) The name and location of receiving waters to which the MS4 outfall or point of discharge discharges;
 - (d) MS4 regulated service area; and
 - (e) Stormwater management facilities owned or operated by the permittee.
- (2) The permittee shall maintain an outfall information table associated with the MS4 map that includes the following information for each outfall or point of discharge for those cases in which the permittee elects to map the known point of discharge in accordance with Part I E 3 a (1) (a). The outfall information table may be maintained as a shapefile attribute table. The outfall information table shall contain the following:
- (a) A unique identifier as specified on the MS4 map;
 - (b) The latitude and longitude of the outfall or point of discharge;
 - (c) The estimated regulated acreage draining to the outfall or point of discharge;
 - (d) The name of the receiving water;
 - (e) The 6th Order Hydrologic Unit Code of the receiving water;
 - (f) An indication as to whether the receiving water is listed as impaired in the Virginia 2022 305(b)/303(d) Water Quality Assessment Integrated Report; and
 - (g) The name of any EPA approved TMDLs for which the permittee is assigned a wasteload allocation.
- (3) No later than 24 months after permit issuance, the permittee shall submit to DEQ, a format file geodatabase or two shapefiles that contain at a minimum:
- (a) A point feature class or shapefile for outfalls with an attribute table containing outfall data elements required in accordance with Part I E 3 a (2); and
 - (b) A polygon feature class or shapefile for the MS4 service area as required in accordance with Part I E 3 a (1) (d) with an attribute table containing the following information:
 - (i) MS4 operator name;
 - (ii) MS4 permit number (VAR04); and
 - (iii) MS4 service area total acreage rounded to the nearest hundredth.
- (4) All file geodatabase feature classes or shapefiles shall be submitted in the following data format standards:
- (a) Point data in NAD83 or WGS84 decimal degrees global positional system coordinates;
 - (b) Data projected in Virginia Lambert Conformal Conic format;

- (c) Outfall location accuracy shall be represented in decimal degrees rounded to at least the fifth decimal place for latitude and longitude to ensure point location accuracy (e.g., 37.61741, -78.15279); and
 - (d) Metadata that shall provide a description of each feature class or shapefile dataset, units of measure as applicable, coordinate system, and projection.
- (5) No later than October 1 of each year, the permittee shall update the MS4 map and outfall information table to include any new outfalls constructed or TMDLs approved or both during the immediate preceding reporting period.
- (6) The permittee shall provide written notification to any downstream adjacent MS4 of any known physical interconnection established or discovered after the effective date of this permit.
- b. The permittee shall prohibit, through ordinance, policy, standard operating procedures, or other legal mechanism, to the extent allowable under federal, state, or local law, regulations, or ordinances, unauthorized nonstormwater discharges into the MS4. Nonstormwater discharges or flows identified in 9VAC25-890-20 D 3 shall only be addressed if they are identified by the permittee as a significant contributor of pollutants discharging to the MS4. Flows that have been identified by the department as de minimis discharges are not significant sources of pollutants to surface water.
- c. The permittee shall maintain, implement, and enforce illicit discharge detection and elimination (IDDE) written procedures designed to detect, identify, and address unauthorized nonstormwater discharges, including illegal dumping, to the MS4 to effectively eliminate the unauthorized discharge. Written procedures shall include:
- (1) A description of the legal authorities, policies, standard operating procedures or other legal mechanisms available to the permittee to eliminate identified sources of ongoing illicit discharges, including procedures for using legal enforcement authorities.
 - (2) Dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall include:
 - (a) A prioritized schedule of field screening activities and rationale for prioritization determined by the permittee based on such criteria as age of the infrastructure, land use, historical illegal discharges, dumping, or cross connections;
 - (b) If the total number of MS4 outfalls is equal to or less than 50, a schedule to screen all outfalls annually;
 - (c) If the total number of MS4 outfalls is greater than 50, a schedule to screen a minimum of 50 outfalls annually such that no more than 50% are screened in the previous 12-month period. The 50% criteria is not applicable if all outfalls have been screened in the previous three years;
 - (d) The permittee may adopt a risk-based approach to dry weather screening identifying observation points based upon illicit discharge risks upstream of an outfall. Observation points may include points of interconnection, manholes, points of discharge, conveyances, or inlets suspected to have a high likelihood of receiving illicit discharges;

- (e) Each observation point screened may be counted as one outfall screening activity equivalent and counted towards the requirements of Part I E 3 c (2) (b) or (2) (c); however, at least 50% of the minimum annual screening events must include outfall screening;
- (f) Illicit discharges reported by the public and subsequent investigations may not be counted as screening events; however once the resolution of the investigation and the date the investigation was closed has been documented, an observation point may be established for future screening events; and
- (g) A checklist or mechanism to track the following information for dry weather screening events:
 - (i) The unique identifier for the outfall or observation point;
 - (ii) Time since the last precipitation event;
 - (iii) The estimated quantity of the last precipitation event;
 - (iv) Site descriptions (e.g., conveyance type and dominant watershed land uses);
 - (v) Observed indicators of possible illicit discharge events, such as floatables, deposits, stains, and vegetative conditions (e.g. dying or dead vegetation, excessive vegetation growth);
 - (vi) Whether or not a discharge was observed;
 - (vii) If a discharge was observed, the estimated discharge rate and visual characteristics of the discharge (e.g., odor, color, clarity, and the physical condition of the outfall); and
 - (viii) For observation points, the location, downstream outfall unique identifier, and risk factors or rationale for establishing the observation point.
- (3) A timeframe upon which to conduct an investigation to identify and locate the source of any observed unauthorized nonstormwater discharge. Priority of investigations shall be given to discharges of sanitary sewage and those believed to be a risk to human health and public safety. Discharges authorized under a separate VPDES or state permit require no further action under this permit.
- (4) Methodologies to determine the source of all illicit discharges. If the permittee is unable to identify the source of an illicit discharge within six months of beginning the investigation then the permittee shall document that the source remains unidentified. If the observed discharge is intermittent, the permittee shall document that attempts to observe the discharge flowing were unsuccessful.
- (5) Methodologies for conducting a follow-up investigation for illicit discharges that are continuous or that permittees expect to occur more frequently than a one-time discharge to verify that the discharge has been eliminated except as provided for in Part I E 3 c (4);
- (6) A mechanism to track all illicit discharge investigations to document the following:

- (a) The dates that the illicit discharge was initially observed, reported, or both;
 - (b) The results of the investigation, including the source, if identified;
 - (c) Any follow-up to the investigation;
 - (d) Resolution of the investigation; and
 - (e) The date that the investigation was closed.
- d. The MS4 program plan shall include:
- (1) The MS4 map and outfall information table required by Part I E 3 a. The map and outfall information table may be incorporated into the MS4 program plan by reference. The map shall be made available to the department within 14 days upon request;
 - (2) Copies of written notifications of physical interconnections given by the permittee to other MS4s; and
 - (3) The IDDE procedures described in Part I E 3 c.
- e. The annual report shall include:
- (1) A confirmation statement that the MS4 map and outfall information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year;
 - (2) The total number of outfalls and observation points screened during the reporting period as part of the dry weather screening program; and
 - (3) A list of illicit discharges to the MS4, including spills reaching the MS4 with information as follows:
 - (a) The location and source of illicit discharge;
 - (b) The dates that the discharge was observed, reported, or both;
 - (c) Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe);
 - (d) How the investigation was resolved;
 - (e) A description of any follow-up activities; and
 - (f) The date the investigation was closed.
4. Construction site stormwater runoff and erosion and sediment control.
- a. The permittee shall utilize its legal authority, such as ordinances, permits, orders, specific contract language, and interjurisdictional agreements, to address discharges entering the MS4 from regulated construction site stormwater runoff. The permittee shall control construction site stormwater runoff as follows:
- (1) If the traditional permittee is a city, county, or town that has adopted a Virginia Erosion and Sediment Control Program (VESCP), the permittee shall implement the VESCP consistent with the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq.

- of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840);
- (2) If the traditional permittee is a town that has not adopted a VESCP, implementation of a VESCP consistent with the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq. of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840) by the surrounding county shall constitute compliance with Part I E 4 a; such town shall notify the surrounding county of erosion, sedimentation, or other construction stormwater runoff problems;
 - (3) If the nontraditional permittee is a state agency; public institution of higher education, including community colleges, colleges, and universities; or federal entity and has developed standards and specifications in accordance with the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq. of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840), the permittee shall implement the most recent department approved standards and specifications; or
 - (4) If the nontraditional permittee is a state agency; public institution of higher education, including community colleges, colleges, and universities; or federal entity and has not developed standards and specifications in accordance with the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq. of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840), the permittee shall inspect all land disturbing activities as defined in § 62.1-44.15:51 of the Code of Virginia that result in the disturbance of 10,000 square feet or greater, or 2,500 square feet or greater in accordance with areas designated under the Chesapeake Bay Preservation Act, as follows:
 - (a) During or immediately following initial installation of erosion and sediment controls;
 - (b) At least once per every two-week period;
 - (c) Within 48 hours following any runoff producing storm event; and
 - (d) At the completion of the project prior to the release of any performance bond.
 - (5) If the nontraditional permittee is a school board or other local government body, the permittee shall inspect those projects resulting in a land disturbance as defined in § 62.1-44.15.51 of the Code of Virginia occurring on lands owned or operated by the permittee that result in the disturbance of 10,000 square feet or greater, 2,500 square feet or greater in accordance with areas designated under the Chesapeake Bay Preservation Act, or in accordance with more stringent thresholds established by the local government, as follows:
 - (a) During or immediately following initial installation of erosion and sediment controls;
 - (b) At least once per every two-week period;
 - (c) Within 48 hours following any runoff producing storm event; and
 - (d) At the completion of the project prior to the release of any performance bond.
- b. The permittee shall require implementation of appropriate controls to prevent nonstormwater discharges to the MS4, such as wastewater, concrete washout, fuels and

oils, and other illicit discharges identified during land disturbing activity inspections. The discharge of nonstormwater discharges other than those identified in 9VAC25-890-20 D through the MS4 is not authorized by this state permit.

- c. Employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators shall obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations;
- d. The permittee's MS4 program plan shall include:
 - (1) If the permittee implements an erosion and sediment control program for construction site stormwater runoff in accordance with Part I E 4 a (1), the local ordinance citations for the VESCP program;
 - (2) If the permittee is a town that does not implement an erosion and sediment control program for construction site stormwater runoff in accordance with Part I E 4 a (2), the county ordinance citations for the VESCP program the town is subject to;
 - (3) If the permittee implements annual standards and specifications for erosion and sediment control and construction site stormwater runoff in accordance with Part I E 4 a (3):
 - (a) The most recently approved standards and specifications or if incorporated by reference, the location where the standards and specifications can be viewed; and
 - (b) A copy of the most recent standards and specifications approval letter from the department;
 - (4) A description of the legal authorities utilized to ensure compliance with Part I E 4 a for erosion and sediment control and construction site stormwater runoff control, such as ordinances, permits, orders, specific contract language, policies, and interjurisdictional agreements;
 - (5) For traditional permittees, written inspection procedures to ensure VESCP requirements are maintained in accordance with 9VAC25-840-90 A and onsite erosion and sediment controls are properly implemented in accordance with 9VAC25-840-60 B;
 - (6) For nontraditional permittees, erosion and sediment control plans or annual standards and specifications shall be approved by the department in accordance with § 62.1-44-15:55 of the Code of Virginia. Compliance with approved erosion and sediment control plans or annual standards and specification shall be ensure by the permittee with written inspection procedures that at a minimum include the following:
 - (a) An inspection checklist for documenting onsite erosion and sediment control structures and systems are properly maintained and repaired as needed to ensure continued performance of their intended function; and
 - (b) A list of all associated documents utilized for inspections, including checklists, department approved erosion and sediment control plans, or the most recently department approved annual standards and specifications, and any other documents utilized;

- (7) Traditional permittees shall maintain written procedures for requiring VESCP compliance through corrective action or enforcement action in accordance with § 62.1-44.15:58 of the Code of Virginia;
 - (8) Nontraditional permittees shall maintain written procedures for requiring compliance with department approved erosion and sediment control plans and annual standards and specifications through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms; and
 - (9) The roles and responsibilities of each of the permittee's departments, divisions, or subdivisions in implementing erosion and sediment control and construction site stormwater runoff control requirements in Part I E 4.
- e. The annual report shall include the following:
- (1) Total number of erosion and sediment control inspections conducted;
 - (2) Total number of each type of compliance action and enforcement action implemented; and
 - (3) For nontraditional permittees:
 - (a) A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved annual standards and specifications for erosion and sediment control; and
 - (b) If any land disturbing projects were conducted without department approved annual standards and specifications, a list of all land disturbing projects that occurred during the reporting period with erosion and sediment control plan approval dates for each project.
5. Post-construction stormwater management for new development and development on prior developed lands.
- a. The permittee shall address post-construction stormwater runoff that enters the MS4 from the following land disturbing activities by implementing a post-construction stormwater runoff management program as follows:
- (1) If the traditional permittee is a city, county, or town, with an approved Virginia Stormwater Management Program (VSMP), the permittee shall implement the VSMP consistent with the Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and VSMP Regulations (9VAC25-870) as well as maintain an inspection and maintenance program in accordance with Part I E 5 b and c;
 - (2) If the traditional permittee is a town that has not adopted a VSMP, implementation of a VSMP consistent with the Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and VSMP Regulations (9VAC25-870) by the surrounding county shall constitute compliance with Part I E 5 a; such town shall notify the surrounding county of erosion, sedimentation, or other post-construction stormwater runoff problems and maintain an inspection and maintenance program in accordance with Part I E 5 c and d;

- (3) If the traditional permittee is a city, county, or town receiving initial permit coverage during the permit term and must obtain VSMP approval from the department, the permittee shall implement the VSMP consistent with the Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and VSMP Regulations (9VAC25870) as well as develop an inspection and maintenance program in accordance with Part I E 5 b and c no later than 60 months after receiving permit coverage;
 - (4) If the nontraditional permittee is a state agency; public institution of higher education, including community colleges, colleges, and universities; or federal entity and has not developed standards and specifications in accordance with the Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and VSMP Regulations (9VAC25-870), the permittee shall implement the most recent department approved standards and specifications and maintain an inspection and maintenance program in accordance with Part I E 5 b;
 - (5) If the nontraditional permittee is a state agency; public institution of higher education, including community colleges, colleges, and universities; or federal entity, and has not developed standards and specifications in accordance with the Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and VSMP Regulations (9VAC25-870), the permittee shall implement a post-construction stormwater runoff control program through compliance with 9VAC25-870 and with the implementation of a maintenance and inspection program consistent with Part I E 5 b no later than 60 months after receiving permit coverage; or
 - (6) If the nontraditional permittee is a school board or other local government body, the permittee shall implement a post-construction stormwater runoff control program through compliance with 9VAC25-870 or in accordance with more stringent local requirements, if applicable, and with the implementation of a maintenance and inspection program consistent with Part I E 5 b.
- b. The permittee shall implement an inspection and maintenance program for those stormwater management facilities owned or operated by the permittee as follows:
- (1) Within six months of the permit effective date, the permittee shall develop and maintain written inspection and maintenance procedures in order to ensure adequate long-term operation and maintenance of its stormwater management facilities. The permittee may use inspection and maintenance specifications available from the Virginia Stormwater BMP Clearinghouse or inspection and maintenance plans developed in accordance with the department's Stormwater Local Assistance Fund (SLAF) guidelines;
 - (2) Employees and contractors implementing the stormwater program shall obtain the appropriate certifications as required under the Virginia Stormwater Management Act and its attendant regulations;
 - (3) The permittee shall inspect stormwater management facilities owned or operated by the permittee no less frequently than once per year. The permittee may choose to implement an alternative schedule to inspect these stormwater management facilities based on facility type and expected maintenance needs provided that the alternative

- schedule and rationale is included in the MS4 program plan. The alternative inspection frequency shall be no less often than once per five years; and
- (4) If during the inspection of the stormwater management facility conducted in accordance with Part I E 5 b (2), it is determined that maintenance is required, the permittee shall conduct the maintenance in accordance with the written procedures developed under Part I E 5 b (1).
- c. For traditional permittees described in Part I E 5 a (1), (2), or (3), the permittee shall:
- (1) Implement an inspection and enforcement program for stormwater management facilities not owned by the permittee (i.e., privately owned) that includes:
 - (a) An inspection frequency of no less often than once per five years for all privately owned stormwater management facilities that discharge into the MS4; and
 - (b) Adequate long-term operation and maintenance by the owner of the stormwater management facility by requiring the owner to develop and record a maintenance agreement, including an inspection schedule to the extent allowable under state or local law or other legal mechanism;
 - (2) Utilize its legal authority for enforcement of the maintenance responsibilities in accordance with 9VAC25-870-112 if maintenance is neglected by the owner;
 - (3) The permittee may develop and implement a progressive compliance and enforcement strategy provided that the strategy is included in the MS4 program plan;
 - (4) The permittee may utilize the inspection reports provided by the owner of a stormwater management facility as part of an inspection and enforcement program in accordance with 9VAC25-870-114 C.
- d. The MS4 program plan shall include:
- (1) If the permittee implements a VSMP in accordance with Part I E 5 a (1), (2), or (3):
 - (a) A copy of the VSMP approval letter issued by the department;
 - (b) Written inspection procedures and all associated documents utilized in the inspection of privately owned stormwater management facilities; and
 - (c) Written procedures for compliance and enforcement of inspection and maintenance requirements for privately owned stormwater management facilities;
 - (2) If the permittee implements a post-development stormwater runoff control program in accordance with Part I E 5 a (4):
 - (a) The most recently approved standards and specifications or if incorporated by reference, the location where the standards and specifications can be viewed; and
 - (b) A copy of the most recent standards and specifications approval letter from the department;
 - (3) A description of the legal authorities utilized to ensure compliance with Part I E 5 a for post-construction stormwater runoff control such as ordinances (provide citation as

- appropriate), permits, orders, specific contract language, and interjurisdictional agreements;
- (4) Written inspection and maintenance procedures and other associated template documents utilized during inspection and maintenance of stormwater management facilities owned or operated by the permittee; and
 - (5) The roles and responsibilities of each of the permittee's departments, divisions, or subdivisions in implementing the post-construction stormwater runoff control program.
- e. The annual report shall include the following information:
- (1) If the traditional permittee implements a VSMP in accordance with Part I E 5 a (1), (2), or (3):
 - (a) The number of privately owned stormwater management facility inspections conducted; and
 - (b) The number of enforcement actions initiated by the permittee to ensure long-term maintenance of privately owned stormwater management facilities including the type of enforcement action;
 - (2) Total number of inspections conducted on stormwater management facilities owned or operated by the permittee;
 - (3) A description of the significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection;
 - (4) For nontraditional permittees as specified in Part I E 5 a (1), a confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part III B 1 or a statement that the permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities (9VAC25-880);
 - (5) A confirmation statement that the permittee electronically reported stormwater management facilities using the DEQ BMP Warehouse in accordance with Part III B 1 and 2; and
 - (6) A confirmation statement that the permittee electronically reported stormwater management facilities inspected using the DEQ BMP Warehouse in accordance with Part III B 5.
6. Pollution prevention and good housekeeping for facilities owned or operated by the permittee within the MS4 service area.
- a. The permittee shall maintain and implement written good housekeeping procedures for those activities listed in Part I E 6 b at facilities owned or operated by the permittee designed to meet the following objectives:

- (1) Prevent illicit discharges;
 - (2) Ensure permittee staff or contractors properly dispose of waste materials, including landscape wastes and prevent waste materials from entering the MS4;
 - (3) Prevent the discharge of wastewater or wash water not authorized in accordance with 9VAC25-890-20 D 3 u, into the MS4 without authorization under a separate VPDES permit; and
 - (4) Minimize the pollutants in stormwater runoff.
- b. The permittee shall develop and implement written good housekeeping procedures that meet the objectives established in Part I E 6 a for the following activities:
- (1) Road, street, sidewalk, and parking lot maintenance and cleaning:
 - (a) Within 24 months of permit issuance, permittees that apply anti-icing and deicing agents shall update and implement procedures in accordance with Part I E to include implementation of best management practices for anti-icing and deicing agent application, transport, and storage;
 - (b) Procedures developed in accordance with Part I E shall prohibit the application of any anti-icing or deicing agent containing urea or other forms of nitrogen or phosphorus;
 - (2) Renovation and significant exterior maintenance activities (e.g., painting, roof resealing, and HVAC coil cleaning) not covered under a separate VSMP construction general permit. The permittee shall develop and implement procedures no later than 36 months after permit issuance;
 - (3) Discharging water pumped from construction and maintenance activities [not covered by another permit covering such activities];
 - (4) Temporary storage of landscaping materials;
 - (5) Maintenance of permittee owned or operated vehicles and equipment (i.e., prevent pollutant discharges from leaking permittee vehicles and equipment);
 - (6) Application of materials, including pesticides and herbicides shall not exceed manufacturer's recommendations; and
 - (7) Application of fertilizer shall not exceed maximum application rates established by applicable nutrient management plans. For areas not covered under nutrient management plans where fertilizer is applied, application rates shall not exceed manufacturer's recommendations.
- c. The permittee shall require through the use of contract language, training, written procedures, or other measures within the permittee's legal authority that contractors employed by the permittee and engaging in activities described in Part I E 6 b follow established good housekeeping procedures and use appropriate control measures to minimize the discharge of pollutants to the MS4.

- d. The written procedures established in accordance with Part I E 6 a and b shall be utilized as part of the employee training program, and the permittee shall develop a written training plan for applicable field personnel that ensures the following:
- (1) Applicable field personnel shall receive training in the prevention, recognition, and elimination of illicit discharges no less often than once per 24 months;
 - (2) Employees performing road, street, sidewalk, and parking lot maintenance shall receive training in good housekeeping procedures required under Part I E 6 b (1) no less often than once per 24 months;
 - (3) Employees working in and around facility maintenance, public works, or recreational facilities shall receive training in applicable Part I E 6 a and b good housekeeping procedures required no less often than once per 24 months;
 - (4) Employees working in and around high-priority facilities with a stormwater pollution prevention plan (SWPPP) shall receive training in applicable site specific SWPPP procedures no less often than once per 24 months;
 - (5) Employees whose duties include emergency spill control and response shall be trained in spill control and response. Emergency responders, such as firefighters and law-enforcement officers, trained on the handling of spill control and response as part of a larger emergency response training shall satisfy this training requirement and be documented in the training plan; and
 - (6) Employees and contractors hired by the permittee who apply pesticides and herbicides shall be trained and certified in accordance with the Virginia Pesticide Control Act (§ 3.2-3900 et seq. of the Code of Virginia). Certification by the Virginia Department of Agriculture and Consumer Services (VDACS) Pesticide and Herbicide Applicator program shall constitute compliance with this requirement. Contracts for the application of pesticide and herbicides executed after the effective date of this permit shall require contractor certification.
- e. The permittee shall maintain documentation of each training activity conducted by the permittee to fulfill the requirements of Part I E 6 d for a minimum of three years after training activity completion. The documentation shall include the following information:
- (1) The date when applicable employees have completed the training activity;
 - (2) The number of employees who have completed the training activity; and
 - (3) The training objectives and good housekeeping procedures required under Part I E 6 a covered by training activity.
- f. The permittee may fulfill the training requirements in Part I E 6 d, in total or in part, through regional training programs involving two or more MS4 permittees; however, the permittee shall remain responsible for ensuring compliance with the training requirements.
- g. Within 12 months of permit coverage, the permittee shall identify any new high-priority facilities located in expanded 2020 census urban areas with a population of at least 50,000.

- h. Within 36 months of permit coverage, the permittee shall implement SWPPPs for high-priority facilities meeting the conditions of Part I E 6 i and which are located in expanded 2020 census urban areas with a population of at least 50,000.
- i. The permittee shall maintain and implement a site specific SWPPP for each high-priority facility. As defined in 9VAC25-890-1 that does not have or require separate VPDES permit coverage, and which any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt or runoff:
 - (1) Areas where residuals from using, storing, or cleaning machinery or equipment remain and are exposed to stormwater;
 - (2) Materials or residuals on the ground or in stormwater inlets from spills or leaks;
 - (3) Material handling equipment;
 - (4) Materials or products that would be expected to be mobilized in stormwater runoff during loading or unloading or transporting activities (e.g., rock, salt, fill dirt);
 - (5) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants);
 - (6) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated, or leaking storage drums, barrels, tanks, and similar containers;
 - (7) Waste material except waste in covered, nonleaking containers (e.g., dumpsters);
 - (8) Application or disposal of process wastewater (unless otherwise permitted); or
 - (9) Particulate matter or visible deposits of residuals from roof stacks, vents, or both not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater runoff.
- j. Each SWPPP as required in Part I E 6 g shall include the following:
 - (1) A site description that includes a site map identifying all outfalls, direction of stormwater flows, existing source controls, and receiving water bodies;
 - (2) A description and checklist of the potential pollutants and pollutant sources;
 - (3) A description of all potential nonstormwater discharges;
 - (4) A description of all structural control measures, such as stormwater management facilities and other pollutant source controls, applicable to SWPPP implementation (e.g., permeable pavement or oil-water separators that discharge to sanitary sewer are not applicable to the SWPPP), such as oil-water separators, and inlet protection designed to address potential pollutants and pollutant sources at risk of being discharged to the MS4;
 - (5) A maintenance schedule for all stormwater management facilities and other pollutant source controls applicable to SWPPP implementation described in Part I E 6 h (4);

- (6) Site specific written procedures designed to reduce and prevent pollutant discharge that incorporate by reference applicable good housekeeping procedures required under Part I E 6 a and b;
 - (7) A description of the applicable training as required in Part I E 6 d (4);
 - (8) An inspection frequency of no less often than once per year and maintenance requirements for site specific source controls. The date of each inspection and associated findings and follow-up shall be logged in each SWPPP;
 - (9) A log of each unauthorized discharge, release, or spill incident reported in accordance with Part IV G including the following information:
 - (a) Date of incident;
 - (b) Material discharged, released, or spilled; and
 - (c) Estimated quantity discharged, released or spilled.
 - (10) A log of modifications to the SWPPP made as the result of any unauthorized discharge, release, or spill in accordance Part I E 6 j or changes in facility activities and operation requiring SWPPP modification; and
 - (11) The point of contact for SWPPP implementation.
- k. No later than June 30 of each year, the permittee shall annually review any high-priority facility owned or operated by the permittee for which an SWPPP has not been developed to determine if the facility meets any of the conditions described in Part I E 6 g. If the facility is determined to need an SWPPP, the permittee shall develop an SWPPP meeting the requirements of Part I E 6 h no later than December 31 of that same year. The permittee shall maintain a list of all high-priority facilities owned or operated by the permittee not required to maintain an SWPPP in accordance with Part I E 6 g and this list shall be available upon request.
 - l. The permittee shall review the contents of any site specific SWPPP no later than 30 days after any unauthorized discharge, release, or spill reported in accordance with Part IV G to determine if additional measures are necessary to prevent future unauthorized discharges, releases, or spills. If necessary, the SWPPP shall be updated no later than 90 days after the unauthorized discharge.
 - m. The SWPPP shall be kept at the high-priority facility and utilized as part of employee SWPPP training required in Part I E 6 d (4). The SWPPP and associated documents may be maintained as a hard copy or electronically as long as the documents are available to employees at the applicable site.
 - n. If activities change at a facility such that the facility no longer meets the definition of a high-priority facility, the permittee may remove the facility from the list of high-priority facilities with a high potential to discharge pollutants.
 - o. If activities change at a facility such that the facility no longer meets the criteria requiring SWPPP coverage as described in Part I E 6 g, the permittee may remove the facility from the list of high-priority facilities that require SWPPP coverage.

- p. The permittee shall maintain and implement turf and landscape nutrient management plans that have been developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia on all lands owned or operated by the permittee where nutrients are applied to a contiguous area greater than one acre. If nutrients are being applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's recommendations.
- q. Within 12 months of permit coverage, the permittee shall identify contiguous areas greater than one acre located in expanded 2020 census urban areas with population of at least 50,000 and within the permittee's MS4 service area requiring turf and landscape nutrient management plans.
- r. Within 36 months of permit coverage, the permittee shall implement turf and landscape nutrient management plans on contiguous areas greater than one acre located in expanded 2020 Census urban areas with a population of least 50,000 and within the permittee's MS4 service area.
- s. If nutrients are being applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's recommendations. For newly established turf where nutrients are applied to a contiguous area greater than one acre, the permittee shall implement a nutrient management plan no later than six months after the site achieves final stabilization.
- t. Nutrient management plans developed in accordance with Part I E 6 n shall be submitted to the Department of Conservation and Recreation (DCR) for approval.
- u. Nutrient management plans that are expired as of the effective date of this permit shall be submitted to DCR for renewal within six months after the effective date of this permit. Thereafter, all nutrient management plans shall be submitted to DCR at least 30 days prior to nutrient management plan expiration. Within 36 months of permit coverage, no nutrient management plans maintained by the permittee in accordance with Part I E 6 n shall be expired due to DCR documented noncompliance with 4VAC50-85-130 provided to the permittee.
- v. Nutrient management plans may be maintained as a hard copy or electronically as long as the documents are available to employees at the applicable site.
- w. Nontraditional permittees with lands regulated under § 10.1-104.4 of the Code of Virginia, including state agencies, state colleges and universities, and other state government entities, shall continue to implement turf and landscape nutrient management plans in accordance with this statutory requirement.
- x. The MS4 program plan shall include:
 - (1) A list of written good housekeeping procedures for the operations and maintenance activities as required by Part I E 6 a and b;
 - (2) A list of all high-priority facilities owned or operated by the permittee required to maintain an SWPPP in accordance with Part I E 6 g that includes the facility name, facility location, and the location of the SWPPP hardcopy or electronic document being

- maintained. The SWPPP for each high-priority facility shall be incorporated by reference;
- (3) A list of locations for which turf and landscape nutrient management plans are required in accordance with Part I E 6 n and s, including the following information:
 - (a) The total acreage covered by each nutrient management plan;
 - (b) The DCR approval date and expiration date for each nutrient management plan; and
 - (c) The location of the nutrient management plan hardcopy or electronic document being maintained;
 - (4) A summary of mechanisms the permittee uses to ensure contractors working on behalf of the permittees implement the necessary good housekeeping and pollution prevention procedures, and stormwater pollution plans as appropriate; and
 - (5) The written training plan as required in Part I E 6 d.
- y. The annual report shall include the following:
- (1) A summary of any written procedures developed or modified in accordance with Part I E 6 a and b during the reporting period;
 - (2) A confirmation statement that all high-priority facilities were reviewed to determine if SWPPP coverage is needed during the reporting period;
 - (3) A list of any new SWPPPs developed in accordance with Part I E 6 i during the reporting period;
 - (4) A summary of any SWPPPs modified in accordance with Part I E 6 j, 6 l, or 6 m;
 - (5) The rationale of any high-priority facilities delisted in accordance with Part I E 6 l or m during the reporting period;
 - (6) The status of each nutrient management plan as of June 30 of the reporting year (e.g., approved, submitted and pending approval, and expired);
 - (7) A list of the training activities conducted in accordance with Part I E 6 d, including the following information:
 - (a) The completion date for the training activity;
 - (b) The number of employees who completed the training activity; and
 - (c) The objectives and good housekeeping procedures covered by the training activity.

Part II

TMDL Special Conditions

A. Chesapeake Bay TMDL special condition.

1. The Commonwealth in its Phase I, Phase II, and Phase III Chesapeake Bay TMDL Watershed Implementation Plans (WIPs) committed to a phased approach for MS4s, affording MS4 permittees up to three full five-year permit cycles to implement necessary reductions. This permit is consistent with the Chesapeake Bay TMDL and the Virginia Phase I, Phase II, and Phase III WIPs to meet the Level 2 (L2) scoping run for existing developed lands as it represents an implementation of an additional 60% of L2 as specified in the Phase I, Phase II, and Phase III WIPs. In combination with the 40.0% reduction of L2 that has already been achieved, a total reduction no later than October 31, 2028, of 100% of L2 shall be achieved. Conditions of future permits will be consistent with the TMDL or WIP conditions in place at the time of permit issuance.
2. The following definitions apply to Part II of this state permit for the purpose of the Chesapeake Bay TMDL special condition for discharges in the Chesapeake Bay Watershed:

"Existing sources" means pervious and impervious urban land uses served by the MS4 as of June 30, 2009.

"New sources" means pervious and impervious urban land uses served by the MS4 developed or redeveloped on or after July 1, 2009.

"Pollutants of concern" or "POC" means total nitrogen and total phosphorus.

"Transitional sources" means regulated land disturbing activities that are temporary in nature and discharge through the MS4.
3. Reduction requirements for permittees previously covered under the General VPDES Permit for Discharges of Stormwater from MS4 effective November 1, 2018. No later than October 31, 2028, the permittee shall reduce the load of total nitrogen and total phosphorus from existing developed lands served by the MS4 as of June 30, 2009, within the 2010 Census urbanized areas by at least 100% of the Level 2 (L2) Scoping Run Reductions. The 100% reduction is the sum of (i) the first phase reduction of 5.0% of the L2 Scoping Run Reductions based on the lands located within the 2000 Census urbanized areas required by June 30, 2018; (ii) the second phase reduction of at least 35% of the L2 Scoping Run based on lands within the 2000 Census urbanized areas required by June 30, 2023; (iii) the second phase reduction of at least 40% of the L2 Scoping Run, which shall only apply to the additional lands that were added by the 2010 expanded Census urbanized areas required by June 30, 2023; and (iv) the third phase reduction of at least 60% of the L2 Scoping Run based on lands within the 2000 and 2010 expanded Census urbanized areas required by October 31, 2028. The required reduction shall be calculated using Tables 3a, 3b, 3c, and 3d as applicable:

Table 3a
Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the James River, Lynnhaven, and Little Creek Basins

		A	B	C	D	E	F
Pollutant	Subsource	Loading rate (lbs/ac/yr) ¹	Existing developed lands as of 6/30/09 served by the MS4 within the 2010 CUA (acres) ²	Load(lbs/yr) ³	Percentage of MS4 required Chesapeake Bay total L2 loading reduction	100% cumulative reduction Required by 10/31/2028 (lbs/yr) ⁴	Sum of 100% cumulative reduction (lb/yr) ⁵
Nitrogen	Regulated urban impervious	9.39			9%		
	Regulated urban pervious	6.99			6%		
Phosphorus	Regulated urban impervious	1.76			16%		
	Regulated urban pervious	0.5			7.25%		

¹Edge of stream loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2.

²To determine the existing developed acres required in Column B, permittees should first determine the extent of their regulated service area based on the 2010 Census urbanized area (CUA). Next, permittees will need to delineate the lands within the 2010 CUA served by the MS4 as pervious or impervious as of the baseline date of June 30, 2009. ³Column C = Column A x Column B.

⁴Column E = Column C x Column D.

⁵Column F = The sum of the subsource cumulative reduction required by 10/31/28 (lbs/yr) as calculated in Column E.

Table 3b
Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the Potomac River Basin

		A	B	C	D	E	F
Pollutant	Subsource	Loading rate (lbs/ac/yr) ¹	Existing developed lands as of 6/30/09 served by the MS4 within the 2010 CUA (acres) ²	Load (lbs/yr) ³	Percentage of MS4 required Chesapeake Bay total L2 loading reduction	100% cumulative reduction required by 10/31/2028 (lbs/yr) ⁴	Sum of 100% cumulative reduction (lb/yr) ⁵
Nitrogen	Regulated urban impervious	16.86			9%		
	Regulated urban pervious	10.07			6%		
Phosphorus	Regulated Urban Impervious	1.62			16%		
	Regulated urban pervious	0.41			7.25%		

¹Edge of stream loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2

²To determine the existing developed acres required in Column B, permittees should first determine the extent of their regulated service area based on the 2010 Census urbanized area (CUA). Next, permittees will need to delineate the lands within the 2010 CUA served by the MS4 as pervious or impervious as of the baseline date of June 30, 2009.

³Column C = Column A x Column B.

⁴Column E = Column C x Column D.

⁵Column F = The sum of the subsource cumulative reduction required by 10/31/28 (lbs/yr) as calculated in Column E.

Table 3c

Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the Rappahannock River Basin

		A	B	C	D	E	F
Pollutant	Subsource	Loading rate (lbs/ac/yr) ¹	Existing developed lands as of 6/30/09 served by the MS4 within the 2010 CUA (acres) ²	Load (lbs/yr) ³	Percentage of MS4 required Chesapeake Bay total L2 loading reduction	100% cumulative reduction Required by 10/31/2028 (lbs/yr) ⁴	Sum of 100% cumulative reduction (lb/yr) ⁵
Nitrogen	Regulated urban impervious	9.38			9%		
	Regulated urban pervious	5.34			6%		
Phosphorus	Regulated urban impervious	1.41			16%		
	Regulated urban pervious	0.38			7.25%		

¹Edge of stream loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2.

²To determine the existing developed acres required in Column B, permittees should first determine the extent of their regulated service area based on the 2010 Census urbanized area (CUA). Next, permittees will need to delineate the lands within the 2010 CUA served by the MS4 as pervious or impervious as of the baseline date of June 30, 2009.

³Column C = Column A x Column B.

⁴Column E = Column C x Column D.

⁵Column F = The sum of the subsurface cumulative reduction required by 10/31/28 (lbs/yr) as calculated in Column E.

Table 3d
Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the York River and Poquoson Coastal Basin

		A	B	C	D	F	G
Pollutant	Subsource	Loading rate (lbs/ac/yr) ¹	Existing developed lands as of 6/30/09 served by the MS4 within the 2010 CUA (acres) ²	Load (lbs/yr) ³	Percentage of MS4 required Chesapeake Bay total L2 loading reduction	100% cumulative reduction required by 10/31/2028 (lbs/yr) ⁴	Sum of 100% cumulative reduction (lb/yr) ⁵
Nitrogen	Regulated urban impervious	7.31			9%		
	Regulated urban pervious	7.65			6%		
Phosphorus	Regulated urban impervious	1.51			16%		
	Regulated urban pervious	0.51			7.25%		

¹Edge of stream loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2.

²To determine the existing developed acres required in Column B, permittees should first determine the extent of their regulated service area based on the 2010 Census urbanized area (CUA). Next, permittees will need to delineate the lands within the 2010 CUA served by the MS4 as pervious or impervious as of the baseline date of June 30, 2009.

³Column C = Column A x Column B.

⁴Column E = Column C x Column D.

⁵Column F = The sum of the subsource cumulative reduction required by 10/31/28 (lbs/yr) as calculated in Column E.

4. No later than October 31, 2028, the permittee shall offset 100% of the increased loads from new sources initiating construction between July 1, 2009, and October 31, 2023, and designed in accordance with 9VAC25-870 Part II C (9VAC25-870-93 et seq.) if the following conditions apply: a. The activity disturbed one acre or greater; and
- b. The resulting total phosphorous load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition of 16% impervious cover.

The permittee shall utilize Table 4 of Part II A 5 to develop the equivalent pollutant load for new sources of nitrogen meeting the requirements of this condition.

5. No later than October 31, 2028, the permittee shall offset the increased loads from projects grandfathered in accordance with 9VAC25-870-48 that begin construction after July 1, 2014, if the following conditions apply:
- a. The activity disturbs one acre or greater; and
- b. The resulting total phosphorous load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition of 16% impervious cover.

The permittee shall utilize Table 4 to develop the equivalent pollutant load for grandfathered sources of nitrogen meeting the requirements of this condition.

Ratio of Phosphorus to Other POCs (Based on All Land Uses 2009 Progress Run)	Phosphorus Loading Rate (lbs/acre)	Nitrogen Loading Rate (lbs/acre)
James River Basin, Lynnhaven, and Little Creek Basins	1.0	5.2
Potomac River Basin	1.0	6.9
Rappahannock River Basin	1.0	6.7
York River Basin (including Poquoson Coastal Basin)	1.0	9.5

6. Reductions achieved in accordance with the General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems effective July 1, 2013, and November 1, 2018, shall be applied toward the total reduction requirements to demonstrate compliance with Part II A 3, A 4, and A 5.
7. 40% of L2 reductions for total nitrogen and total phosphorus shall be maintained by the permittee during the permit term.

8. Reductions shall be achieved in each river basin as calculated in Part II A 3 or for reductions in accordance with Part II A 4 and A 5 in the basin in which the new source or grandfathered project occurred.
9. Loading and reduction values greater than or equal to 10 pounds calculated in accordance with Part II A 3, A 4, and A 5 shall be calculated and reported to the nearest pound without regard to mathematical rules of precision. Loading and reduction values of less than 10 pounds reported in accordance with Part II A 3, A 4, and A 5 shall be calculated and reported to two significant digits.
10. Reductions required in Part II A 3, A 4, and A 5 shall be achieved through one or more of the following:
 - a. BMPs approved by the Chesapeake Bay Program;
 - b. BMPs approved by the department; or
 - c. A trading program described in Part II A 10.
11. The permittee may acquire and use total nitrogen and total phosphorus credits in accordance with § 62.1-44.19:21 of the Code of Virginia for purposes of compliance with the required reductions in Table 3a, Table 3b, Table c, and Table 3d of Part II A 3; Part II A 4; and Part II A 5, provided the use of credits has been approved by the department. The exchange of credits is subject to the following requirements:
 - a. The credits are generated and applied to a compliance obligation in the same calendar year;
 - b. The credits are generated and applied to a compliance obligation in the same tributary;
 - c. The credits are acquired no later than June 1 immediately following the calendar year in which the credits are applied;
 - d. No later than June 1 immediately following the calendar year in which the credits are applied, the permittee certifies on an MS4 Nutrient Credit Acquisition Form that the permittee has acquired the credits; and
 - e. Total nitrogen and total phosphorus credits shall be either point source credits generated by point sources covered by the Watershed Permit for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Bay Watershed general permit issued pursuant to § 62.1-44.19:14 of the Code of Virginia, or nonpoint source credits certified pursuant to § 62.1-44.19:20 of the Code of Virginia;
12. Chesapeake Bay TMDL action plan requirements.
 - a. Permittees applying for initial coverage under this general permit shall submit a draft first phase Chesapeake Bay TMDL action plan to the department no later than October 31, 2028, unless the department grants a later date. The required reduction shall be calculated using Tables 3a, 3b, 3c, and 3d as applicable. The first phase action plan shall achieve a minimum reduction of least 40% of the L2 Scoping Run based on lands within the 2000 and 2010 expanded Census urbanized areas no later than October 31, 2033. The action plan shall include the following information:
 - (1) The load and cumulative reduction calculations for each river basin calculated in accordance with Part II A 3, A 4, and A 5;
 - (2) The BMPs to be implemented by the permittee prior to the expiration of this permit to meet the cumulative reductions calculated in Part II A 3, A 4, and A 5, including as applicable:
 - (a) Type of BMP;

- (b) Project name;
 - (c) Location;
 - (d) Percent removal efficiency for each pollutant of concern; and
 - (e) Calculation of the reduction expected to be achieved by the BMP calculated and reported in accordance with the methodologies established in Part II A 9 for each pollutant of concern;
- (3) A preliminary schedule for implementation of the BMPs included in the Chesapeake Bay TMDL action plan; and
- (4) A summary of any comments received as a result of public participation required in Part II A 14, the permittee's response, identification of any public meetings to address public concerns, and any revisions made to Chesapeake Bay TMDL action plan as a result of public participation.
- b. For permittees previously covered under the General VPDES Permit for the Discharge of Stormwater from MS4 effective November 1, 2018, no later than 12 months after the permit effective date, the permittee shall submit a third phase Chesapeake Bay TMDL action plan for the reductions required in Part II A 3, A 4, and A 5 that includes the following information:
- (1) Any new or modified legal authorities, such as ordinances, permits, policy, specific contract language, orders, and interjurisdictional agreements, implemented or needing to be implemented to meet the requirements of Part II A 3, A 4, and A 5.
 - (2) The load and cumulative reduction calculations for each river basin calculated in accordance with Part II A 3, A 4, and A 5.
 - (3) The total reductions achieved as of November 1, 2023, for each pollutant of concern in each river basin.
 - (4) A list of BMPs implemented prior to November 1, 2023, to achieve reductions associated with the Chesapeake Bay TMDL, including:
 - (a) The date of implementation; and
 - (b) The reductions achieved.
 - (5) The BMPs to be implemented by the permittee within 60 months of the effective date of this permit to meet the cumulative reductions calculated in Part II A 3, A 4, and A 5, including as applicable:
 - (a) Type of BMP;
 - (b) Project name;
 - (c) Location;
 - (d) Percent removal efficiency for each pollutant of concern; [and]
 - (e) Calculation of the reduction expected to be achieved by the BMP calculated and reported in accordance with the methodologies established in Part II A 9 for each pollutant of concern; and
 - (f) A preliminary schedule for implementation of the BMPs included in the Chesapeake Bay TMDL action plan.

- (6) A summary of any comments received as a result of public participation required in Part II A 13, the permittee's response, identification of any public meetings to address public concerns, and any revisions made to Chesapeake Bay TMDL action plan as a result of public participation.
13. Prior to submittal of the action plan required in Part II A 12 a and b, permittees shall provide an opportunity for public comment no fewer than 15 days on the additional BMPs proposed in the third phase Chesapeake Bay TMDL action plan.
14. Chesapeake Bay TMDL implementation annual status report.
- a. Permittees previously covered under the General VPDES Permit for Discharges of Stormwater from MS4 effective November 1, 2018, shall submit a Chesapeake Bay TMDL implementation annual status report in a method (i.e., how the permittee must submit) and format (i.e., how the report shall be laid out) as specified by the department no later than October 1 of each year. The report shall cover the previous year from July 1 to June 30.
 - b. 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 9VAC25-31-1020 and this section. There shall be at least a three-month notice provided between the notification from the department and the date after which such forms and reports must be submitted electronically.
 - c. The year two Chesapeake Bay TMDL implementation annual status report shall contain a summary of any public comments on the Chesapeake Bay TMDL action plan received and how the permittee responded.
 - d. Each Chesapeake Bay TMDL implementation annual status report shall include the following information:
 - (1) A list of Chesapeake Bay TMDL action plan BMPs, not including annual practices, implemented prior to the reporting period that includes the following information for reported BMP;
 - (a) The number of BMPs for each BMP type;
 - (b) The estimated reduction of pollutants of concern achieved by each BMP type and reported in pounds of pollutant reduction per year; and
 - (c) A confirmation statement that the permittee electronically reported Chesapeake Bay TMDL action plan BMPs inspected using the DEQ BMP Warehouse in accordance with Part III B 5.
 - (2) A list of newly implemented BMPs including annual practices implemented during the reporting period that includes the following information for each reported BMP or a statement that no BMPs were implemented during the reporting period:
 - (a) The BMP type and a description of the location for each BMP;
 - (b) The estimated reduction of pollutants of concern achieved by each BMP and reported in pounds of pollutant reduction per year; and
 - (c) A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part III B 3.
 - e. If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions in Part II A 3, A 4, or A 5, a statement that credits were acquired.

- f. Pollutant load reductions generated by annual practices, such as street and storm drain cleaning, shall only be applied to the compliance year in which the annual practice was implemented.
 - g. The progress, using the final design efficiency of the BMPs, toward meeting the required cumulative reductions for total nitrogen and total phosphorus.
 - h. Any revisions made to the Chesapeake Bay TMDL action plan.
 - i. A list of BMPs that are planned to be implemented during the next reporting period.
15. Within 60 months after permit issuance, the permittee shall update the Phase III Chesapeake Bay TMDL action plan to offset the increased loads from new sources initiating construction between July 1, 2009, and October 31, 2023, that are located in the expanded 2020 census urban areas with a population of at least 50,000, and within the permittee's MS4 service area, and designed in accordance with 9VAC25-870 Part II C (9VAC25-870-93 et seq.), if the following conditions apply:
- a. The activity disturbed one acre or greater; and
 - b. The resulting total phosphorous load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition of 16% impervious cover.
 - c. The permittee shall utilize Table 4 of Part II A 5 to develop the equivalent nitrogen pollutant load for new sources meeting the requirements of this condition.
16. Within 60 months after permit issuance, the permittee shall update the Phase III Chesapeake Bay TMDL action plan to offset the increased loads from projects grandfathered in accordance with 9VAC25-870-48 that are located in the expanded 2020 Census urban areas with a population of least 50,000, and within the permittee's MS4 service area, and began construction after July 1, 2014, if the following conditions apply:
- a. The activity disturbs one acre or greater; and
 - b. The resulting total phosphorous load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition of 16% impervious cover.
 - c. The permittee shall utilize Table 4 of Part II A 6 to develop the equivalent nitrogen pollutant load for grandfathered sources meeting the requirements of this condition.

B. Local TMDL special condition.

1. Permittees applying for initial coverage under this general permit shall develop a local TMDL action plan designed to reduce loadings for pollutants of concern if the permittee discharges the pollutants of concern to an impaired water for which a TMDL has been approved by the U.S. Environmental Protection Agency (EPA) prior to October 31, 2023, and in which an individual or aggregate waste load has been allocated to the permittee. The permittee shall develop action plans to meet the conditions of Part II B 4, B 5, B 6, B 7, and B 8 as applicable. Each local TMDL action plan shall be provided to the department no later than October 31, 2028, unless the department grants a later date.
2. Permittees previously covered under the General VPDES Permit for Discharges of Stormwater from MS4 effective November 1, 2018, shall develop and maintain a local TMDL action plan designed to reduce loadings for pollutants of concern if the permittee discharges the pollutants of concern to an impaired water for which a TMDL has been approved by the U.S. Environmental Protection Agency (EPA) as described in Part II B 2 a and 2 b:
 - a. For TMDLs approved by EPA prior to July 1, 2018, and in which an individual or aggregate waste load has been allocated to the permittee, the permittee shall develop and initiate or update as

applicable the local TMDL action plans to meet the conditions of Part II B 4, B 6, B 7, and B 8 as applicable, no later than 18 months after the permit effective date and continue implementation of the action plan. Updated action plans shall include:

- (1) An evaluation of the results achieved by the previous action plan; and
 - (2) Any adaptive management strategies incorporated into updated action plans based on action plan evaluation.
- b. For TMDLs approved by EPA on or after July 1, 2018, and prior to October 31, 2023, and in which an individual or aggregate waste load has been allocated to the permittee, the permittee shall develop and initiate implementation of action plans to meet the conditions of Part II B 4, B 5, B 6, B 7, and B 8, as applicable no later than 30 months after the permit effective date.
3. The permittee shall complete implementation of the TMDL action plans as determined by the schedule. TMDL action plans may be implemented in multiple phases over more than one permit cycle using the adaptive iterative approach provided adequate progress is achieved in the implementation of BMPs designed to reduce pollutant discharges in a manner that is consistent with the assumptions and requirements of the applicable TMDL.
4. Each local TMDL action plan developed by the permittee shall include the following:
- a. The TMDL project name;
 - b. The EPA approval date of the TMDL;
 - c. The waste load allocated to the permittee (individually or in aggregate), and the corresponding percent reduction, if applicable;
 - d. Identification of the significant sources of the pollutants of concern discharging to the permittee's MS4 that are not covered under a separate VPDES permit. For the purposes of this requirement, a significant source of pollutants of concern means a discharge where the expected pollutant loading is greater than the average pollutant loading for the land use identified in the TMDL;
 - e. The BMPs designed to reduce the pollutants of concern in accordance with Part II B 5, B 6, B 7, or B 8;
 - f. Any calculations required in accordance with Part II B 5, B 6, B 7, and B 8;
 - g. For action plans developed in accordance with Part II B 5, B 6, and B 8, an outreach strategy to enhance the public's education (including employees) on methods to eliminate and reduce discharges of the pollutants; and
 - h. A schedule of anticipated actions planned for implementation during this permit term.
5. Bacterial TMDLs.
- a. Traditional permittees, the permittee shall select and implement at least three of the strategies listed in Table 5 designed to reduce the load of bacteria to the MS4. Selection of the strategies shall correspond to sources identified in Part II B 4 d.
 - b. Nontraditional permittees, the permittee shall select at least one strategy listed in Table 5 designed to reduce the load of bacteria to the MS4 relevant to sources of bacteria applicable within the MS4 regulated service area. Selection of the strategies shall correspond to sources identified in Part II B 4 d.

Table 5 Strategies for Bacteria Reduction Stormwater Control/Management Strategy	
Source	Strategies (provided as an example and not meant to be all inclusive or limiting)
Domestic pets (dogs and cats)	<p>Provide signage to pick up dog waste, providing pet waste bags and disposal containers.</p> <p>Adopt and enforce pet waste ordinances or policies, or leash laws or policies.</p> <p>Place dog parks away from environmentally sensitive areas.</p> <p>Maintain dog parks by removing disposed of pet waste bags and cleaning up other sources of bacteria.</p> <p>Protect riparian buffers and provide unmanicured vegetative buffers along streams to dissuade stream access.</p>
Urban wildlife	<p>Educate the public on how to reduce food sources accessible to urban wildlife (e.g., manage restaurant dumpsters and grease traps, residential garbage, feed pets indoors).</p> <p>Install storm drain inlet or outlet controls.</p> <p>Clean out storm drains to remove waste from wildlife.</p> <p>Implement and enforce urban trash management practices.</p> <p>Implement rooftop disconnection programs or site designs that minimize connections to reduce bacteria from rooftops</p> <p>Implement a program for removing animal carcasses from roadways and properly disposing of the same (either through proper storage or through transport to a licensed facility).</p>
Illicit connections or illicit discharges to the MS4	<p>Implement an enhanced dry weather screening and illicit discharge, detection, and elimination program beyond the requirements of Part I E 3 to identify and remove illicit connections and identify leaking sanitary sewer lines infiltrating to the MS4 and implement repairs.</p> <p>Implement a program to identify potentially failing septic systems.</p> <p>Educate the public on how to determine whether their septic system is failing.</p> <p>Implement septic tank inspection and maintenance program.</p> <p>Implement an educational program beyond any requirements in Part I E 1 though E 6 to explain to citizens why they should not dump materials into the MS4.</p>

Dry weather urban flows (irrigations, car washing, powerwashing, etc.)	<p>Implement public education programs to reduce dry weather flows from storm sewers related to lawn and park irrigation practices, car washing, powerwashing and other nonstormwater flows.</p> <p>Provide irrigation controller rebates.</p> <p>Implement and enforce ordinances or policies related to outdoor (etc.) water waste.</p> <p>Inspect commercial trash areas, grease traps, washdown practices, and enforce corresponding ordinances or policies.</p>
Birds (Canadian geese, gulls, pigeons, etc.)	<p>Identify areas with high bird populations and evaluate deterrents, population controls, habitat modifications and other measures that may reduce bird-associated bacteria loading.</p> <p>Prohibit feeding of birds.</p>
Other sources	<p>Enhance maintenance of stormwater management facilities owned or operated by the permittee.</p> <p>Enhance requirements for third parties to maintain stormwater management facilities.</p> <p>Develop BMPs for locating, transporting, and maintaining portable toilets used on permittee-owned sites. Educate third parties that use portable toilets on BMPs for use.</p> <p>Provide public education on appropriate recreational vehicle dumping practices.</p>

6. Local sediment, phosphorus, and nitrogen TMDLs.
- a. The permittee shall reduce the loads associated with sediment, phosphorus, or nitrogen through implementation of one or more of the following:
- (1) One or more of the BMPs from the Virginia Stormwater BMP Clearinghouse listed in 9VAC25870-65 or other approved BMPs found on the Virginia Stormwater BMP Clearinghouse website;
 - (2) One or more BMPs approved by the Chesapeake Bay Program. Pollutant load reductions generated by annual practices, such as street and storm drain cleaning, shall only be applied to the compliance year in which the annual practice was implemented; or
 - (3) Land disturbance thresholds lower than Virginia's regulatory requirements for erosion and sediment control and post development stormwater management.
- b. The permittee may meet the local TMDL requirements for sediment, phosphorus, or nitrogen through BMPs implemented or sediment, phosphorus, or nitrogen credits acquired. BMPs implemented and nutrient and sediment credits acquired to meet the requirements of the Chesapeake Bay TMDL in Part II A may also be utilized to meet local TMDL requirements as long as the BMPs are implemented or the credits are generated in the watershed for which local water quality is impaired.

- c. The permittee shall calculate the anticipated load reduction achieved from each BMP and include the calculations in the action plan required in Part II B 4 f.
 - d. No later than 36 months after the effective date of this permit, the permittee shall submit to the department an update on the progress made toward achieving [local TMDL] action plan goals and the anticipated end dates by which the permittee will meet each waste load allocation for sediment, phosphorus, or nitrogen. The proposed end date may be developed in accordance with Part II B 3.
7. Polychlorinated biphenyl (PCB) TMDLs.
- a. For each PCB TMDL action plan, the permittee shall include an inventory of potentially significant sources of PCBs owned or operated by the permittee that drains to the MS4 that includes the following information:
 - (1) Location of the potential source;
 - (2) Whether or not the potential source is from current site activities or activities previously conducted at the site that have been terminated (i.e. legacy activities); and
 - (3) A description of any measures being implemented or to be implemented to prevent exposure to stormwater and the discharge of PCBs from the site.
 - b. If at any time during the term of this permit, the permittee discovers a previously unidentified significant source of PCBs within the permittee's MS4 regulated service area, the permittee shall notify DEQ in writing within 30 days of discovery.
 - c. As part of its annual reporting requirements, the permittee shall submit results of any action plan PCB monitoring or product testing conducted and any adaptive management strategies that have been incorporated into the updated action plan based upon monitoring or product testing results if the permittee has elected to perform monitoring or product testing or both.
8. Chloride TMDLs.
- a. No later than 36 months after the permit effective date, permittees shall develop an anti-icing and deicing agent education and outreach strategy that identifies target audiences for increasing awareness of anti-icing and deicing agent application impacts on receiving waters and encourages implementation of enhanced BMPs for application, handling, and storage of anti-icing and de-icing agents used for snow and ice management.
 - b. Anti-icing and deicing agent education and outreach strategies shall contain a schedule to implement two or more of the strategies listed in Part I E 1 d Table 1 per year to communicate to target audiences the importance of responsible anti-icing and deicing agent application, transport, and storage.
 - c. No later than 36 months after permit issuance, the permittee shall review good housekeeping procedures for anti-icing and deicing agent application, handling, storage, and transport activities required under Part I E 6 b (1) (a) and identify a minimum of two strategies for implementing enhanced BMPs that promote efficient management and application of anti-icing and deicing agents while maintaining public safety.
9. Prior to submittal of the action plan required in Part II B 2, the permittee shall provide an opportunity for public comment for no fewer than 15 days on the proposal to meet the local TMDL action plan requirements.

10. The MS4 program plan as required by Part I B of this permit shall incorporate each local TMDL action plan. Local TMDL action plans may be incorporated by reference into the MS4 program plan provided that the program plan includes the date of the most recent local TMDL action plan and identification of the location where a copy of the local TMDL action plan may be obtained.
11. For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan.

C. Inspection and maintenance of ecosystem restoration projects used for TMDL compliance.

1. Within 36 months of permit issuance the permittee shall develop and maintain written inspection and maintenance procedures in order to ensure adequate long-term operation and maintenance of ecosystem restoration projects as defined in 9VAC25-890-1 and implemented as part of a TMDL action plan developed in accordance with Part II A, B, or both. The permittee may utilize inspection and maintenance protocols developed by the Chesapeake Bay Program or inspection and maintenance plans developed in accordance with the department's Stormwater Local Assistance Fund (SLAF) guidelines.
2. The permittee shall inspect ecosystem restoration projects owned or operated by the permittee and implemented as part of a current TMDL action plan developed in accordance with Part II A or B no less than once every 60 months.

Part III

Conditions Applicable to All State and VPDES Permits

- A. For the purpose of Part III of this permit, "best management practice" or "BMP" means a practice that achieves quantifiable nitrogen, phosphorus, or total suspended solids reductions, including stormwater management facilities, ecosystem restoration projects, annual practices, and other practices approved by the department for reducing nitrogen, phosphorus, and total suspended solids pollutants.
- B. No later than October 1 of each year the permittee shall electronically report BMPs implemented and inspected as applicable between July 1 and June 30 of each year using the DEQ BMP Warehouse.
1. The permittee shall use the associated reporting template for stormwater management facilities not reported in accordance with Part III 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 Area Designation and Management Regulations (9VAC25-830), if applicable, and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required.
 2. The permittee shall use the DEQ BMP Warehouse to report BMPs that were not reported in accordance with Part III 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 II A or B.
 3. The permittee shall use the DEQ BMP Warehouse to report any BMPs that were not reported in accordance with Part III B 1, B 2, or B 3.
 4. The permittee shall use the DEQ BMP Warehouse to report the most recent inspection date for BMPs in accordance with Part I E 5 b or 5 c, or in accordance with Part II C and the most recent associated TMDL action plan.
 5. Traditional permittees specified in Part I E 5 a (1) shall use the DEQ Construction Stormwater Database or other application as specified by the department to report each stormwater management facility installed after July 1, 2014, to address the control of post-construction runoff from land disturbing activities for which the permittee is required to obtain a General VPDES Permit for Discharges of Stormwater from Construction Activities.
- C. The following information for each BMP reported in accordance with Part III B 1, B 2, B 3, or B 4 shall be reported to the DEQ BMP Warehouse as applicable:
1. The BMP type;
 2. The BMP location as decimal degree latitude and longitude;
 3. The acres treated by the BMP, including total acres and impervious acres;
 4. The date the BMP was brought online (MM/YYYY). If the date brought online is not known, the permittee shall use 06/2005;
 5. The 6th Order Hydrologic Unit Code in which the BMP is located;
 6. Whether the BMP is owned or operated by the permittee or privately owned;
 7. Whether or not the BMP is part of the permittee's Chesapeake Bay TMDL action plan required in Part II A or local TMDL action plan required in Part II B, or both;

8. If the BMP is privately owned, whether a maintenance agreement exists;
 9. The date of the permittee's most recent inspection of the BMP; and
 10. Any other information specific to the BMP type required by the DEQ BMP Warehouse (e.g., linear feet of stream restoration).
- D. No later than October 1 of each year the DEQ BMP Warehouse shall be updated if an existing BMP is discovered between July 1 and June 30 that was not previously reported to the DEQ BMP Warehouse.

Part IV

Conditions Applicable to All State and VPDES Permits

NOTE: Discharge monitoring is not required for compliance purposes by this general permit. If the operator chooses to monitor stormwater discharges for informational or screening purposes, the operator does not need to comply with the requirements of Parts IV A, B, or C.

A. Monitoring.

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitoring activity.
2. Monitoring shall be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this state permit. Analyses performed according to test procedures approved under 40 CFR Part 136 shall be performed by an environmental laboratory certified under regulations adopted by the Department of General Services (1VAC30-45 or 1VAC30-46).
3. The operator shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will ensure accuracy of measurements.

B. Records.

1. Monitoring records and reports shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individuals who performed the sampling or measurements;
 - c. The dates and times analyses were performed;
 - d. The individuals who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. The operator shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this state permit, and records of all data used to complete the registration statement for this state permit, for a period of at least three years from the date of the sample, measurement, report, or request for coverage. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the operator, or as requested by the department.

C. Reporting monitoring results.

1. The operator shall submit the results of the monitoring as may be performed in accordance with this state permit with the annual report unless another reporting schedule is specified elsewhere in this state permit.

2. Monitoring results shall be reported on a discharge monitoring report (DMR); on forms provided, approved or specified by the department; or in any format provided that the date, location, parameter, method, and result of the monitoring activity are included. Following notification from the department of the start date for the required electronic submission of monitoring reports, as provided for in 9VAC25-31-1020, such forms and reports submitted after that date shall be electronically submitted to the department in compliance with 9VAC25-31-1020 and this section. There shall be at least a three-month notice provided between the notification from the department and the date after which such forms and reports must be submitted electronically.
 3. If the operator monitors any pollutant specifically addressed by this state permit more frequently than required by this state permit using test procedures approved under 40 CFR Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this state permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the department.
 4. Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this state permit.
- D. Duty to provide information. The operator shall furnish within a reasonable time, any information that the department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this state permit or to determine compliance with this state permit. The department or EPA may require the operator to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from the permittee's discharge on the quality of surface waters, or such other information as may be necessary to accomplish the purposes of the CWA and Virginia Stormwater Management Act. The operator shall also furnish to the department or EPA upon request, copies of records required to be kept by this state permit.
- E. Compliance schedule reports. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this state permit shall be submitted no later than 14 days following each schedule date.
- F. Unauthorized stormwater discharges. Pursuant to § 62.1-44.5 of the Code of Virginia, except in compliance with a state permit issued by the department, it shall be unlawful to cause a stormwater discharge from a MS4.
- G. Reports of unauthorized discharges. Any operator of a MS4 who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance or a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, 40 CFR Part 302, or § 62.1-44.34:19 of the Code of Virginia that occurs during a 24-hour period into or upon surface waters or who discharges or causes or allows a discharge that may reasonably be expected to enter surface waters shall notify the department of the discharge immediately (see Part IV I 4) upon discovery of the discharge, but in no case later than within 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the department within five days of discovery of the discharge. The written report shall contain:
1. A description of the nature and location of the discharge;
 2. The cause of the discharge;
 3. The date on which the discharge occurred;
 4. The length of time that the discharge continued;

5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this state permit.

Discharges reportable to the department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of unusual or extraordinary discharges. If any unusual or extraordinary discharge, including a bypass Part IV U or an upset Part IV V, should occur from a facility and the discharge enters or could be expected to enter surface waters, the operator shall promptly notify (see Part IV I 4), in no case later than within 24 hours, the department after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse effects on aquatic life and the known number of fish killed. The operator shall reduce the report to writing and shall submit it to the department within five days of discovery of the discharge in accordance with Part IV I 2. Unusual and extraordinary discharges include any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the facilities; and
4. Flooding or other acts of nature.

I. Reports of noncompliance.

1. The operator shall report any noncompliance that may adversely affect surface waters or may endanger public health.
 - a. A report to the department shall be provided within 24 hours from the time the operator becomes aware of the circumstances. The following shall be included as information that shall be reported within 24 hours under Part IV I:
 - (1) Any unanticipated bypass; and
 - (2) Any upset that causes a discharge to surface waters.
 - b. A written report shall be submitted within five days and shall contain:
 - (1) A description of the noncompliance and its cause;
 - (2) The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - (3) Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The department may waive the written report on a case-by-case basis for reports of noncompliance under Part IV I if the report has been received within 24 hours and no adverse impact on surface waters has been reported.
2. The operator shall report all instances of noncompliance not reported under Part IV I 1 b, in writing, as part of the annual reports that are submitted. The reports shall contain the information listed in Part IV I 2.

3. The immediate (within 24 hours) reports required in Part IV G, H, and I shall be made to the department. Reports may be made by telephone, email, fax, or online at <https://deq.virginia.gov/our-programs/pollution-response/pollution-data-and-reporting>. For reports outside normal working hours, the online portal shall be used. For emergencies, call the Virginia Department of Emergency Management's Emergency Operations Center (24-hours) at 1-800-468-8892.
4. Where the operator becomes aware of a failure to submit any relevant facts, or submittal of incorrect information in any report, including a registrations statement, to the department, the operator shall promptly submit such facts or correct information.

J. Notice of planned changes.

1. The operator shall give notice to the department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The operator plans an alteration or addition to any building, structure, facility, or installation that may meet one of the criteria for determining whether a facility is a new source in 9VAC25-870-420:
 - b. The operator plans an alteration or addition that would significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this state permit; or
2. The operator shall give advance notice to the department of any planned changes in the permitted facility or activity that may result in noncompliance with state permit requirements.

K. Signatory requirements.

1. Registration statement. All registration statements shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this chapter, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this chapter, a principal executive officer of a public agency includes:
 - (1) The chief executive officer of the agency, or

(2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports and other information. All reports required by state permits, including annual reports, and other information requested by the department shall be signed by a person described in Part IV K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a person described in Part IV K 1;
- b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the operator. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
- c. The signed and dated written authorization is submitted to the department.

3. Changes to authorization. If an authorization under Part IV K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the MS4, a new authorization satisfying the requirements of Part IV K 2 shall be submitted to the department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Part IV K 1 or K 2 shall make the following certification:

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

L. Duty to comply. The operator shall comply with all conditions of this state permit. Any state permit noncompliance constitutes a violation of the Virginia Stormwater Management Act and the Clean Water Act, except that noncompliance with certain provisions of this state permit may constitute a violation of the Virginia Stormwater Management Act but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for state permit termination, revocation and reissuance, or modification; or denial of a state permit renewal application.

The operator shall comply with effluent standards or prohibitions established under § 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this state permit has not yet been modified to incorporate the requirement.

M. Duty to reapply. If the operator wishes to continue an activity regulated by this state permit after the expiration date of this state permit, the operator shall submit a new registration statement at least 90 days before the expiration date of the existing state permit, unless permission for a later date has been granted by the department. The department shall not grant permission for registration statements to be submitted later than the expiration date of the existing state permit.

- N. Effect of a state permit. This state permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.
- O. State law. Nothing in this state permit shall be construed to preclude the institution of any legal action under, or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by § 510 of the Clean Water Act. Except as provided in state permit conditions on bypassing in Part IV U and upset in Part IV V nothing in this state permit shall be construed to relieve the operator from civil and criminal penalties for noncompliance.
- P. Oil and hazardous substance liability. Nothing in this state permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties to which the operator is or may be subject under §§ 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law or § 311 of the Clean Water Act.
- Q. Proper operation and maintenance. The operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), which are installed or used by the operator to achieve compliance with the conditions of this state permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by the operator only when the operation is necessary to achieve compliance with the conditions of this state permit.
- R. Disposal of solids or sludges. Solids, sludges, or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering surface waters and in compliance with all applicable state and federal laws and regulations.
- S. Duty to mitigate. The operator shall take all reasonable steps to minimize or prevent any discharge in violation of this state permit that has a reasonable likelihood of adversely affecting human health or the environment.
- T. Need to halt or reduce activity not a defense. It shall not be a defense for an operator in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this state permit.
- U. Bypass.
1. "Bypass," as defined in 9VAC25-870-10, means the intentional diversion of waste streams from any portion of a treatment facility. The operator may allow any bypass to occur that does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to ensure efficient operation.
These bypasses are not subject to the provisions of Part IV U 2 and U 3.
 2. Notice.
 - a. Anticipated bypass. If the operator knows in advance of the need for a bypass, the operator shall submit prior notice to the department, if possible at least 10 days before the date of the bypass.

b. Unanticipated bypass. The operator shall submit notice of an unanticipated bypass as required in Part IV I.

3. Prohibition of bypass.

a. Except as provided in Part IV U 1, bypass is prohibited, and the department may take enforcement action against an operator for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The operator submitted notices as required under Part IV U 2.

b. The department may approve an anticipated bypass, after considering its adverse effects, if the department determines that it will meet the three conditions listed in Part IV U 3 a.

V. Upset.

1. An "upset," as defined in 9VAC25-870-10, means an exceptional incident in which there is unintentional and temporary noncompliance with technology based state permit effluent limitations because of factors beyond the reasonable control of the operator. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
2. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based state permit effluent limitations if the requirements of Part IV V 4 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
3. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
4. An operator who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the operator can identify the causes of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The operator submitted notice of the upset as required in Part IV I; and
 - d. The operator complied with any remedial measures required under Part IV S.
5. In any enforcement proceeding the operator seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and entry. The operator shall allow the department, EPA, or an authorized representative (including an authorized contractor), upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the operator's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this state permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this state permit;
3. Inspect and photograph at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this state permit; and
4. Sample or monitor at reasonable times, for the purposes of ensuring permit compliance or as otherwise authorized by the Clean Water Act and the Virginia Stormwater Management Act, any substances or parameters at any location.

For purposes of this subsection, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. State permit actions. State permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the operator for a state permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any state permit condition.

Y. Transfer of state permits.

1. State permits are not transferable to any person except after notice to the department. Except as provided in Part IV Y 2, a state permit may be transferred by the operator to a new operator only if the state permit has been modified or revoked and reissued, or a minor modification made, to identify the new operator and incorporate such other requirements as may be necessary under the Virginia Stormwater Management Act and the Clean Water Act.
2. As an alternative to transfers under Part IV Y 1, this state permit may be automatically transferred to a new operator if:
 - a. The current operator notifies the department at least 30 days in advance of the proposed transfer of the title to the facility or property;
 - b. The notice includes a written agreement between the existing and new operators containing a specific date for transfer of state permit responsibility, coverage, and liability between them; and
 - c. The department does not notify the existing operator and the proposed new operator of its intent to modify or revoke and reissue the state permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part IV Y 2 b.

Z. Severability. The provisions of this state permit are severable, and if any provision of this state permit or the application of any provision of this state permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this state permit, shall not be affected thereby.



APPENDIX B



WE ALL SCOOP THE POOP!



The Problem:

The Solution!

1. Animal waste adds harmful nutrients and bacteria to water

2. These nutrients and bacteria trigger algae and weed growth

3. Water becomes green, murky, smelly, and unsafe to swim in

4. People and animals become sick from contact with contaminated water!



Pick up after your pets!
Make use of provided pet waste stations around the City.

Dispose of pet waste in the trash! Compost may not destroy dangerous bacteria.

Don't feed ducks, geese, or swans bread:

1. It's not good for them and can cause long-term health problems.
2. It causes them to concentrate in one area, meaning more waste in the water.



LET'S KEEP IT BEAUTIFUL, PETERSBURG!



**Protect local
wildlife!**

**Prevent the
spread of
disease!**



Put trash in the can, not on the ground!





WHAT CAN I RECYCLE?

TOP 10 IN THE BIN



1. CARDBOARD
2. PAPER
3. FOOD BOXES
4. MAIL
5. BEVERAGE CANS
6. FOOD CANS
7. GLASS BOTTLES
8. JARS (GLASS & PLASTIC)
9. JUGS
10. PLASTIC BOTTLES AND CAPS

ALSO RECYCLABLE BUT NOT IN CURBSIDE BIN

PLASTIC BAGS
AND WRAPS



ELECTRONICS



TEXTILES



Find out about your local recycling options here:
www.iwanttoberecycled.org

DON'T trash CENTRAL VIRGINIA

About Us

The Don't Trash Central Virginia campaign unites localities in Central Virginia in a fight against litter. The goals of the campaign are to increase awareness of litter and its negative impacts in the community, build knowledge about litter prevention strategies, and encourage action through participation in public clean up opportunities. The campaign welcomes businesses and organizations as campaign partners who share the vision of a litter-free Central Virginia.

Join us in an effort to rid our communities of the financial and environmental costs that come with litter.

How can you help?

- Spread the word! Tell others about the campaign.
- Join our social media drive and repost our content!
- Organize, support, or join a nearby litter clean-up!



TOP 20 ITEMS FOUND BY VOLUNTEERS IN VIRGINIA

(Based on 20 years of data)

- Cigarette Filters
- Beverage Bottles (Plastic)
- Bags
- Cups, Plates, Forks, Knives, Spoons
- Food Wrappers - Containers
- Beverage Cans
- Caps & Lids
- Beverage Bottles (Glass)
- Straws, Stirrers
- Building Materials
- Balloons
- Rope
- Clothing, Shoes
- Fishing Line
- Oil/Lube Bottles
- Tires
- Toys
- Fishing Buoys, Pots & Traps
- Cigarette Lighters
- Six-Pack Holders

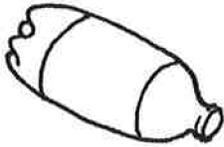
Virginia Coastal Zone Management Program—DEQ

Sometimes items we recycle are made into cool new things!

We recycle these:

and they can be made into these:

Plastic Soda Bottles



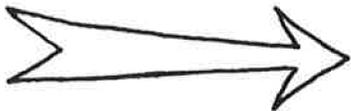
T-Shirts

Cereal Boxes



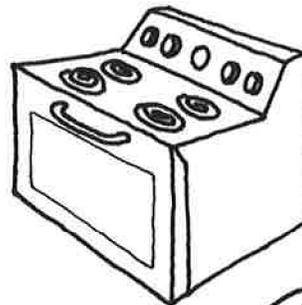
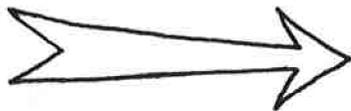
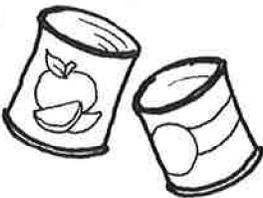
Notebooks

Soda Cans



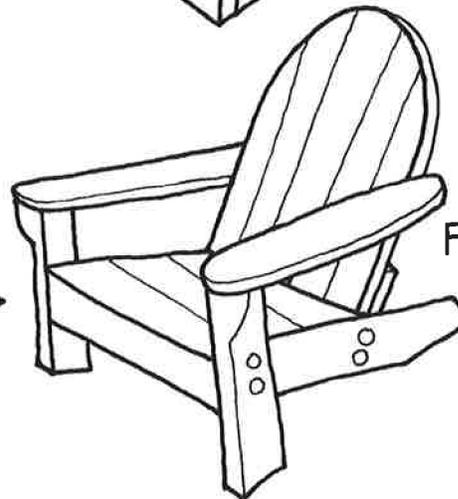
New Cans

Metal Cans



Stove

Plastic Milk Jugs



Plastic Lumber and Furniture

Recycling Word Search

Name _____ Date _____

R R E C Y C L E V B I L M O
 E G P O U I R S L W I U F B
 P P N E N V I R O N M E N T
 A L U I Q E K L E E B W R W
 P A I B G A S C R O T E K N
 S S Z C S A U U T F P S D E
 W T A W Y D K T E A W Q A E
 E I S T E X L C P R B J E W
 N C R R S E U V A E G H C C
 K G F Y S O C G N P Z L N X

BOTTLES
 PACKAGING
 RECYCLE
 WASTE

ENVIRONMENT
 PAPER
 REDUCE

NEWSPAPER
 PLASTIC
 REUSE

How to Maintain Your Stormwater Management Facility

Stormwater Management Facilities, also called BMPs, are designed to capture & treat stormwater using landscaping & structural features to remove pollutants as water heads toward streams, rivers, & the ocean.

Polluted water comes in



These BMPs look natural but still need care and maintenance to remain functional over the course of their lifetime!



Clean water goes out!

BMP Maintenance is required - the City can take enforcement actions if necessary.



Sample Inspection and Maintenance Log

Facility Piece	Inlet Channel / Structure	Outlet Structure	Other
Trash, Debris, Sediment			
Erosion			
Vegetation			
Broken Parts			
Ponding Water			
Odor			
Pests			
Maintenance Actions Taken			

Common

Maintenance Items

1. Trash and Debris
 - a. Remove regularly to prevent clogging and odor.
2. Erosion
 - a. Establish grass in bare areas to keep structures functioning!
3. Structural Deficiencies
 - a. Cracks, rust, dents, & broken components should be repaired and replaced.
4. Vegetation
 - a. Maintain desired vegetation and regularly remove unwanted vegetation.
5. Sediment
 - a. Remove excess sediment to prevent clogging

If you notice:

- Ponding Water
- Mosquitoes
- Pest animals
- Odors
- Excess sediment
- Bare spots

Your BMP needs maintenance!

Inspection Schedule

Inspect your facility regularly – at least **twice a year and after heavy rainfalls** – for any common maintenance items (see left bar). See the table below for recommended seasonal maintenance!

Keep a **log of inspections and maintenance**, noting the date, components inspected, and maintenance performed.

Spring	Fall
Clean out trash/debris	Clean out trash/debris
Clean out weeds and unwanted plants	Remove weeds, plant debris, unwanted plants
Check for erosion (more than 1" soil lost)	Replace dead and dying plants
Check for pests and unusual odors	
Summer	Winter
Clean out trash/debris	Clean out trash/debris
When facility is dry, remove any sediment buildup	Check for ponding water
Make structural repairs	

Adapted from "How to Maintain Stormwater Management Systems at Home" by the James River Association



APPENDIX C

Know Your 2024 Recycling Days

January							February							March							April								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
	1	▶2	▶3	▶4	▶5	▶6					1	2	3						1	2			1	2	3	4	5	6	
7	8	9	10	11	12	13	4	5	6	7	8	9	10	3	4	5	6	7	8	9	7	8	9	10	11	12	13		
14	15	16	17	18	19	20	11	12	13	14	15	16	17	10	11	12	13	14	15	16	14	15	16	17	18	19	20		
21	22	23	24	25	26	27	18	19	20	21	22	23	24	17	18	19	20	21	22	23	21	22	23	24	25	26	27		
28	29	30	31				25	26	27	28	29			24	25	26	27	28	29	30	28	29	30						
May							June							July							August								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
			1	2	3	4						▶1		1	2	3	4	▶5	▶6					1	2	3			
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10		
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17		
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24		
26	27	▶28	▶29	▶30	▶31		23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	31		
September							October							November							December								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
1	2	▶3	▶4	▶5	▶6	▶7				1	2	3	4	5							1	2							
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14		
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21		
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	▶26	▶27	▶28		
29	30						27	28	29	30	31			24	25	26	27	28	▶29	▶30	29	30	31	1	▶2	▶3	▶4		



Check your collection color and day on the other side of this card.

Have your recycling out by 7:00am on collection day.



Make a service request at cvwma.com.

Reduce. Reuse. Recycle.

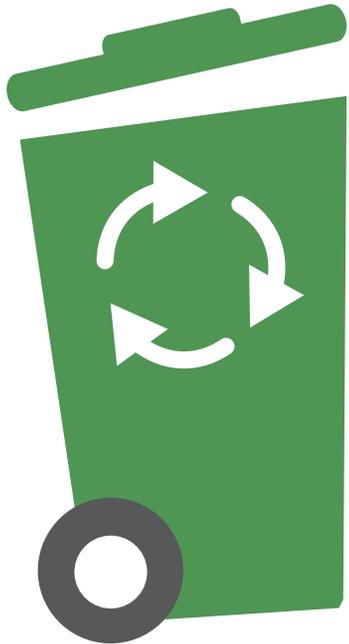


Central Virginia Waste Management Authority
cvwma.com | 804-340-0900

Recycle Right

Fit everything inside your cart.

Place cart with opening toward street. Leave 3 feet of clearance on all sides.



Yes

- Aluminum and steel cans
- Paper and cardboard
- Rinsed and capped plastic containers
- Glass jars and bottles
- Cartons



No

- Plastic bags
- Metal lids
- Shredded paper
- Cords and hoses
- Styrofoam™
- Batteries

Reduce. Reuse. Recycle.



Central Virginia Waste Management Authority
cvwma.com | 804-340-0900



Scan for more recycling info

Central Virginia Waste Management Authority
2100 West Laburnum Avenue, Suite 105
Richmond, VA 23227-4357

Your collection day is shown
with your address below:

PRESORTED
STANDARD
US POSTAGE
PAID
RICHMOND, VA
PERMIT #2249



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Program Information

Background

The Virginia Department of Environmental Quality offers funds for litter prevention and recycling grants to localities under a non-competitive grant program based on population and road miles. These grants have been awarded annually, since 1980, to localities for local litter prevention and recycling program implementation, continuation, and/or expansion. In 2017, \$1,812,330 was disbursed among 190 applicants (representing 309 local government programs). Since 1981, Virginia businesses, who pay into a trust fund, have contributed over \$59M to the fund to support local government litter control and recycling programs.

Initiative

The City of Petersburg, Department of Public Works, applies and receives this grant annually. The Department of Public Works recognizes that our citizens have a desire to contribute to making our City a litter and trash free community. By working together on this initiative, we will be able to reduce litter and the accumulation of trash that continues to be a problem due to the carelessness of those who live, work, and visit our city. This program is intended for organizations that want to take part on a regular basis to monitor and maintain a specific spot, street, or block of the city.



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Supplies

The City offers supplies including trash bags, gloves, and safety vests. Funding for this program is strictly from the grant received. Funding is on a first come, first served basis.

Participants are encouraged to return the supplies or keep them for future clean up events. This effort will aid in making sure that all willing participants can be afforded supplies. Groups are encouraged to adopt as large an area that is manageable based on the number of volunteers in their organization committed to the task.

Recognition

Participating organizations will be recognized for their contribution through the placement of two (2) Adopt-a-Block, Adopt-a-Street, or Adopt-a-Spot signs installed at either end of the street/area the group agrees to “adopt.” The organization will also be publicly recognized annually by the Mayor at a City Council meeting.



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Application Guidelines

A. General

- ❖ All applications submitted **MUST** contain the exact location of the spot, street, or block and meet the requirements below.
- ❖ Participants should **CALL** Street Operations at 804.733.2415 for a current listing of priority streets, spots, and blocks available for adoption.
- ❖ Resources offered below are available to help with identification and location of the desired area. Please highlight the streets or spots.

B. Requirements

- ❖ Standard length of **STREET**: **1** mile or greater
- ❖ Standard **SPOT** requirements: Centrally located in an area of **high visibility**
- ❖ Standard **BLOCK** requirements: A minimum of **1** block (4 streets)

C. Resources

- ❖ City Geographic Information System (GIS)
<https://parcelviewer.geodecisions.com/Petersburg/Account/Logon>



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Adopt-A-Street Application

DATE: _____

In order to enhance the appearance of the roadsides, we request permission to:

A. Adopt-A-Street

STREET NAME: _____

FROM: _____

TO: _____ **TOTALING** _____ **MILES.**

B. Checklist

- Called Street Operations for listing of priority streets
- Attached map and highlighted street
- Street is at least 1 mile
- Have read and agree to Policies & Procedures, Frequently Asked Questions, & Safety Tips

Your Name (Please Print) _____

Signature _____

Title (If Applicable) _____

Address _____

Phone Number (Home) _____ **(Work)** _____

Approved: _____ **Date:** _____
Director of Public Works



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Adopt-A-Spot Application

DATE: _____

In order to enhance the appearance of the roadsides, we request permission to:

A. Adopt-A-Spot

SPOT LOCATION: _____

ADJACENT STREET 1: _____

ADJACENT STREET 2: _____

B. Checklist

- Called Street Operations for listing of priority spots
- Attached map and highlighted spot
- Spot is in a high visibility area
- Have read and agree to Policies & Procedures, Frequently Asked Questions, & Safety Tips

Your Name (Please Print) _____

Signature _____

Title (If Applicable) _____

Address _____

Phone Number (Home) _____ **(Work)** _____

Approved: _____ **Date:** _____
Director of Public Works



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Adopt-A-Block Application

DATE: _____

In order to enhance the appearance of the roadsides, we request permission to:

A. Adopt-A-Block

BLOCK LOCATION: _____

STREET 1: _____

STREET 2: _____

STREET 3: _____

STREET 4: _____

B. Checklist

- Called Street Operations for listing of priority blocks
- Attached map and highlighted spot
- Block includes at least 4 streets
- Have read and agree to Policies & Procedures, Frequently Asked Questions, & Safety Tips

Your Name (Please Print) _____

Signature _____

Title (If Applicable) _____

Address _____

Phone Number (Home) _____ **(Work)** _____

Approved: _____ **Date:** _____

Director of Public Works



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Policies and Procedures

1. The organization shall identify a representative(s) to serve as a primary contact person.
2. The organization will complete the “Application” relating to the specific adoption.
3. The organization will complete two (2) cleanups and submit the “Activity Form” before sign installation.
4. The organization will complete the “Sign Request” form.
5. The organization will provide the City with the dates that litter collections will be held in order to track progress. Although litter collection is normally done away from traffic, advanced notification will allow the City to alert police and other City officials about the activity.
6. The City will supply gloves, bags, and safety vests for participants as funding is available. Since this is an ongoing effort and funded by a grant, the organization is encouraged to reuse gloves and vests as much as possible.
7. The City will identify with the organization specific locations where bagged litter will be placed for the City to promptly collect and dispose of it after each collection event.

Alternatively, the organization may arrange for small amounts of bagged litter to be set out for collection through the City weekly residential trash collection program or at the organization or participant’s place of business.



CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS

8. Participants must follow the guidelines listed on the “Safety Guidelines.” The work of volunteers should be a positive experience, but dealing with trash and litter in public areas has risks. Safety of volunteers is crucial.
9. Reporting volunteer hours and the amount of material collected is a key part of measuring success. Not only does the City track results, but these accomplishments are also reported to the state as part of the requirement for receiving the grant.
10. Participants are required to adopt for a minimum of two (2) years. Litter pick up will be done on both sides of the roadway four (4) times a year, more often if necessary. Participants are encouraged to schedule two (2) of their four (4) pick ups in April and October to coincide with statewide litter control cleanups and recycling month.
11. The City recognizes the time required to volunteer for litter collection can be significant. The primary contact person must notify the City and update the records if there is a leadership change. If the organization desires to discontinue the adoption, the primary contact person should notify the City’s Program Coordinator and the agreement will be terminated.
12. Local community organizations such as civic, social or school groups and businesses will be allowed to adopt, as well as individuals 18 years or older. Groups with members less than 15 years old must be supervised by adults 18 years or older. There must be one (1) adult per eight (8) or fewer members. Each team should stay on one side of the road facing the traffic.



CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS

13. The adopting group, business, or individual shall be responsible for obtaining and paying for the signs, if the City cannot obtain funding. The City will install them and perform routine maintenance, although if a sign is damaged it will be the responsibility of the adopting organization to purchase the replacement material.
14. The City of Petersburg reserves the right to revise these terms as needed and deny adoption. The adopting organization/individual will receive a copy of the completed agreement, the safety tips, program conditions and the activity reporting form upon request.



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Frequently Asked Questions

What are the responsibilities of an adopting organization/individual?

- The organization/individual agrees to maintain the spot/street through litter control.
- The organization agrees to maintain the grass cutting to meet city code requirements.
- The organization/individual may choose to beautify the spot/street by planting trees, shrubs or gardens.
 - The organization must provide a map with the locations of expected planting clearly marked with the name of the plant. The map must be approved before any planting can be performed.
- Coordinate regular cleanups to maintain a litter-free site.
- Participants will be required to adopt for a minimum of two (2) years, with at least four (4) cleanups per year.
- Participants should hold at least two (2) meetings a year to review safety and other guidelines. Meetings should be recorded with written minutes and an attendance sign in sheet. These documents should be forwarded to the Program Coordinator to be kept on file.
- Participants are encouraged to separate and recycle appropriate materials for their benefit.
- After each cleanup, adopting individuals/organizations must file an activity report detailing the number of people involved, number of bags of litter picked up, how many bags of recyclable material were separated out of the litter and debris, and the hours spent



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

on the cleanup activity. Printed forms can be provided by the Program Coordinator.

Activity forms are also available online at:

<http://petersburgva.gov/index.aspx?NID=434>

What are the responsibilities of the City of Petersburg?

- The City will supply the participants with safety information and plastic trash bags. The materials can be picked up from the Street Operations Office located at 800 Arlington St. during normal work hours the week before the scheduled cleanup.
- Provide assistance to remove debris collected at the adopted site.
- Furnish appropriate forms for activity reports.

How the Adopt-A-Street/Adopt-A-Spot agreement can be terminated?

- The participating group or individual interferes with traffic.
- The participating group or individual is considered unsafe.
- There is clear notice of inadequate litter control or is inconsistent with the Adopt-A-Street Program.



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Safety Tips

Do Not:

- Horse around or distract workers.
- Participate in a clean up if using drugs or alcohol.
- Exert yourself.
- Pick up litter on construction sites.
- Pick up hazardous materials. Please contact your local Fire Department or Public Works Department to report the presence of the materials.
- Pick up litter during peak traffic times, if the designated area is a street.
- Use power tools such as lawn mowers, tractors, chain saws, etc.

Do:

- Wear an orange/yellow safety vest if involved in the cleanup.
- Do wear light and bright colored protective clothing, as well as hard-soled shoes and work gloves. Sandals and open toe shoes should not be worn.
- Work only during daylight hours and good weather.
- Provide adult supervision for group member less than 15 years of age.
- Contact the Program Coordinator for any questions or concerns.

PLEASE FOLLOW THESE TIPS TO BE SURE YOUR LITTER PICKUP IS A SAFE ONE.



**CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS**

Activity Form

After Each Cleanup Activity Submit This Form and Return It To:

City of Petersburg
Department of Public Works
1340 E. Washington Street
Petersburg, Virginia 23803
Office: (804) 733-2415 x2523

Completed forms can also be emailed to draigns@petersburg-va.org

Adopting Organization/Individual _____

Adopted Location _____
(Address or Location)

Cleanup Date _____

Number of People Involved _____

Total Number of Hours _____

Total Number of Bags of Litter _____

Recyclable Materials Collected:

(Example): # Of Bags 4 Pounds 20 (if known) Recycled Yes or No

Aluminum:

Of Bags _____ Pounds _____ Recycled _____

Glass:

Of Bags _____ Pounds _____ Recycled _____

Paper:

Of Bags _____ Pounds _____ Recycled _____



CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS

Plastic:

Of Bags _____ Pounds _____ Recycled _____

Other:

Of Bags _____ Pounds _____ Recycled _____

Totals:

Comments:

Signature: _____

Printed Name/Title: _____

Date: _____



CITY OF PETERSBURG
DEPARTMENT OF PUBLIC WORKS

Sign Request Form

A. Checklist

- Submitted two (2) "Activity Forms"

Your Name (Please Print) _____

Signature _____

Address _____

Phone Number (Home) _____ (Work) _____

Name to appear on sign _____

Approved: _____ Date: _____
Grant Coordinator

B. What Happens Next

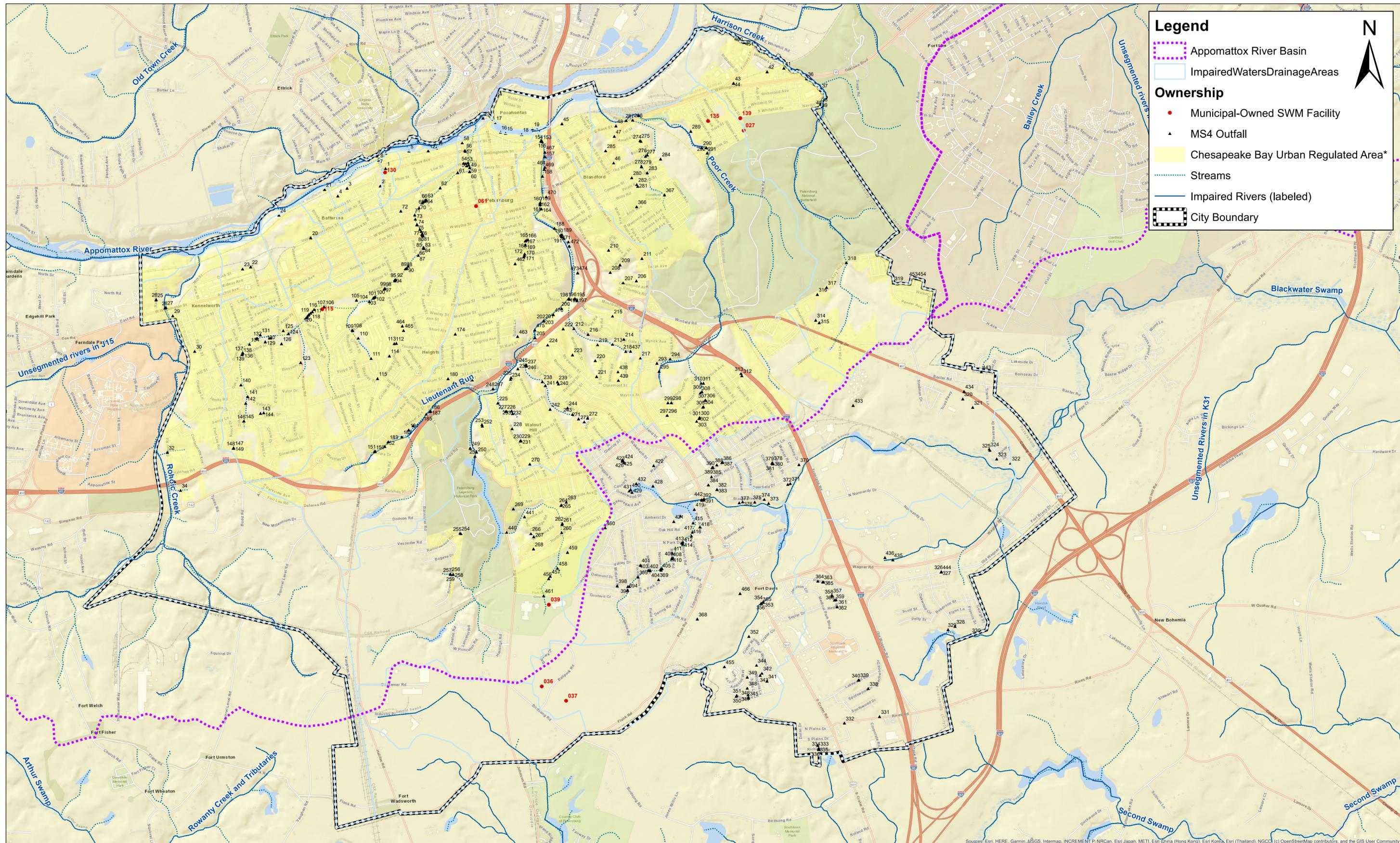
- ❖ Two (2) signs will be placed with the perimeter of the adopted section. One (1) sign will be placed if it relates to an adopted spot.
- ❖ The first sign will be a hinged, diamond shaped sign with the message, "Clean-Up Crew Working." When this sign is folded up, the back will display an anti-litter decal.
 - The participants will be responsible for opening this sign before starting the pickup and closing it after the completion of the pickup.
- ❖ The second sign will display the "Adopt-A-Street, Block, or Spot" message with the name of the adopting group, business, or individual.
- ❖ Only the name of the adopting group, business, or individual will be displayed on this sign.
- ❖ No slogans, logos, advertisements, or phrases will be allowed.
- ❖ These signs will be the only ones used to promote this program.



APPENDIX D

City of Petersburg MS4 Map

April 2024



*Urban area is based on the 2020 Census Urban Area as obtained from TIGER/Line Geodatabases from the United States Census Bureau

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp ction
1	13.3158	-77.41631	37.23125	13.3158	UT Appomattox River	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
2	19.3514	-77.41701	37.22949	19.3514	UT Appomattox River	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
3	3.74237	-77.4212	37.2293	3.74237	UT Appomattox River	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
4	1.23933	-77.42239	37.22854	1.23933	UT Appomattox River	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
5	22.1742	-77.41334	37.23297	22.1742	Appomattox River	20802	Yes	MXD2	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
6	0.082307	-77.41738	37.23251	0.082306	Appomattox River	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
7	0.163438	-77.4172	37.23214	0.163438	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
8	0.842016	-77.41714	37.2321	0.842016	Unsegmented rivers in J15	20802	No	M-2	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
9	0.972803	-77.41628	37.23278	0.972803	Appomattox River	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
11	23.9735	-77.40988	37.23326	23.973499	Appomattox River	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
12	4.38429	-77.41091	37.23296	4.38429	UT Appomattox River	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
13	0.760077	-77.40396	37.23619	0.760077	Appomattox River	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
14	1.58993	-77.4024	37.23814	1.58993	Appomattox River	20802	Yes	R-2	Chesapeake Bay; Lower Appomattox River/Ashton Cre*	20802071001	<Null>
15	24.946	-77.40112	37.23464	24.945999	Appomattox River	20802	Yes	Developed	Chesapeake Bay; Lower Appomattox River/Ashton Cre*	20802071001	<Null>
16	33.4621	-77.40174	37.23475	33.462101	Appomattox River	20802	Yes	Developed	Chesapeake Bay; Lower Appomattox River/Ashton Cre*	20802071001	<Null>
17	0.287502	-77.40246	37.23572	0.287502	Appomattox River	20802	Yes	M-2	Chesapeake Bay; Lower Appomattox River/Ashton Cre*	20802071001	<Null>
18	5.92836	-77.3991	37.2345	5.92836	Appomattox River	20802	Yes	Developed	Chesapeake Bay; Lower Appomattox River/Ashton Cre*	20802071001	<Null>
19	1.82038	-77.39773	37.23505	1.82038	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
20	79.9277	-77.42587	37.22438	79.927696	UT Appomattox River	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
21	17.5854	-77.42405	37.22921	17.5854	Appomattox River	20802	Yes	M-2	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
22	12.3783	-77.43349	37.22154	12.3783	UT Appomattox River	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
23	22.9586	-77.43451	37.22133	22.958599	UT Appomattox River	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
24	1.67044	-77.42986	37.22669	1.67044	UT Appomattox River	20802	No	M-2	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
25	7.43309	-77.44549	37.21831	7.43309	UT Rohoic Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
26	3.2814	-77.44547	37.21836	3.2814	UT Rohoic Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
27	92.5141	-77.44423	37.21753	92.514099	Rohoic Creek	20802	Yes	M-1	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
28	7.32449	-77.44435	37.21749	7.32449	Rohoic Creek	20802	Yes	B-2	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
29	0.738006	-77.4434	37.21671	0.738006	Rohoic Creek	20802	Yes	M-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
30	43.3896	-77.44067	37.21311	43.389599	UT Rohoic Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
32	1.97399	-77.44427	37.20299	1.97399	Rohoic Creek	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
33	16.2577	-77.44386	37.20057	16.2577	Rohoic Creek	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
34	0.516276	-77.44267	37.19916	0.516276	Rohoic Creek	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
35	1.45223	-77.44341	37.20005	1.45223	UT Rohoic Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
36	11.6302	-77.36304	37.23976	11.6302	Harrison Creek	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
37	7.16558	-77.36127	37.23859	7.16558	Harrison Creek	20802	Yes	M-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
38	2.52675	-77.36132	37.23721	2.52675	Harrison Creek	20802	Yes	R-4	Chesapeake Bay; Appomattox River	20802071001	<Null>
39	0.473118	-77.36134	37.23722	0.473118	Harrison Creek	20802	Yes	R-4	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
40	6.64157	-77.36163	37.23689	6.64157	Harrison Creek	20802	Yes	R-4	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
41	0.922431	-77.36591	37.24085	0.922431	Harrison Creek	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
42	0.908638	-77.36803	37.24052	0.908638	UT Harrison Creek	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
43	60.6187	-77.37227	37.2394	60.618698	UT Harrison Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
44	0.448445	-77.37229	37.2394	0.448445	UT Harrison Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
45	24.507	-77.394	37.23553	24.507	UT Blackwater Swamp	30102	No	Developed	Chesapeake Bay; Appomattox River	30102020102	<Null>

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp ction
46	65.4011	-77.38754	37.23153	65.4011	UT Poor Creek	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	<Null>
47	0.379121	-77.38741	37.23421	0.379121	UT Poor Creek	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
48	5.35098	-77.38718	37.23525	5.35098	Poor Creek	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
49	0.473312	-77.40571	37.23125	0.473312	Unsegmented rivers in J15	20802	No	B-3	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
50	0.21521	-77.40582	37.23149	0.21521	Unsegmented rivers in J15	20802	No	B-3	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
51	0.134577	-77.40606	37.23142	0.134577	Unsegmented rivers in J15	20802	No	B-3	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
52	0.864046	-77.4059	37.2317	0.864046	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
53	1.3626	-77.4062	37.23165	1.3626	UT Brickhouse Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
54	0.817803	-77.40643	37.2317	0.817803	UT Brickhouse Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
55	0.239591	-77.40591	37.23175	0.239591	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
56	0.202205	-77.40628	37.23298	0.202205	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
57	3.28079	-77.40625	37.23288	3.28079	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
58	1.82823	-77.40662	37.23373	1.82823	UT Brickhouse Run	20802	No	M-2	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
59	0.309798	-77.40572	37.23085	0.309798	Unsegmented rivers in J15	20802	No	B-3	Chesapeake Bay; Appomattox River	20802071001	<Null>
60	41.1376	-77.40573	37.23082	41.1376	Unsegmented rivers in J15	20802	No	B-3	Chesapeake Bay; Appomattox River	20802071001	<Null>
61	3.9923	-77.40723	37.23075	3.9923	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
62	2.90999	-77.40947	37.22922	2.90999	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
63	3.03437	-77.41125	37.22803	3.03437	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
64	1.73445	-77.41127	37.22805	1.73445	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
65	0.301418	-77.41128	37.228	0.301418	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
66	1.33441	-77.41139	37.22799	1.33441	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
67	0.253273	-77.41139	37.22791	0.253273	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
68	1.93794	-77.41162	37.22784	1.93794	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
69	1.9539	-77.41174	37.22776	1.9539	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
70	5.2951	-77.41216	37.22726	5.2951	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
71	1.83424	-77.41272	37.22655	1.83424	Unsegmented rivers in J15	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	5/3/2023
72	12.1113	-77.41447	37.22696	12.1113	UT Brickhouse Run	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
73	4.5883	-77.41263	37.22612	4.5883	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
74	1.56521	-77.41243	37.22557	1.56521	Unsegmented rivers in J15	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
75	0.451932	-77.41247	37.22556	0.451932	Unsegmented rivers in J15	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
76	0.56113	-77.41207	37.22509	0.56113	Unsegmented rivers in J15	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	<Null>
77	1.20572	-77.41193	37.2249	1.20572	Unsegmented rivers in J15	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	<Null>
78	1.22144	-77.41174	37.22463	1.22144	Unsegmented rivers in J15	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
79	8.8953	-77.41184	37.2246	8.8953	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
80	2.3182	-77.4118	37.22454	2.3182	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
81	4.59339	-77.41177	37.22443	4.59339	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
82	0.512412	-77.41169	37.22445	0.512412	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
83	1.96858	-77.41164	37.2233	1.96858	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
84	5.37366	-77.41167	37.2233	5.37366	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
85	1.86935	-77.41164	37.22319	1.86935	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
86	2.47197	-77.41161	37.22316	2.47197	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
87	6.02514	-77.41233	37.22249	6.02514	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
88	0.626252	-77.41398	37.22115	0.626252	Unsegmented rivers in J15	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	<Null>

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp ction
89	0.673779	-77.41385	37.22116	0.673779	Unsegmented rivers in J15	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	<Null>
90	3.62864	-77.41378	37.22125	3.62864	Unsegmented rivers in J15	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	<Null>
91	2.0998	-77.4136	37.22142	2.0998	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
92	2.7356	-77.41519	37.22008	2.7356	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
94	2.99387	-77.41532	37.21997	2.99387	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
95	12.6676	-77.41531	37.22007	12.6676	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
97	2.66486	-77.41666	37.21915	2.66486	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
98	13.2256	-77.41664	37.21917	13.2256	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
99	1.44907	-77.41658	37.21921	1.44907	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
100	0.124472	-77.41782	37.2184	0.124472	Unsegmented rivers in J15	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
101	0.286313	-77.41798	37.21829	0.286313	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
102	0.150898	-77.41787	37.21833	0.150898	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
103	4.38181	-77.41808	37.21823	4.38181	Unsegmented rivers in J15	20802	No	R-5	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
104	3.69569	-77.41858	37.21792	3.69569	Unsegmented rivers in J15	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
105	7.32722	-77.42019	37.21807	7.32722	Unsegmented rivers in J15	20802	No	R-5	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
106	0.337483	-77.42428	37.21741	0.337483	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
107	0.256625	-77.4243	37.21741	0.256625	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
108	1.16765	-77.42078	37.21505	1.16765	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
109	9.58372	-77.4207	37.215	9.58372	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
110	3.65747	-77.42002	37.21424	3.65747	Unsegmented rivers in J15	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
111	17.6509	-77.41842	37.21218	17.6509	Unsegmented rivers in J15	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
112	0.591926	-77.41547	37.21366	0.591926	UT Brickhouse Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
113	0.069236	-77.41522	37.21369	0.069236	UT Brickhouse Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
114	7.05982	-77.41611	37.21243	7.05982	UT Brickhouse Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
115	1.24089	-77.41764	37.21017	1.24089	UT Brickhouse Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
116	0.845784	-77.42553	37.21716	0.845784	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
117	1.42874	-77.42577	37.21695	1.42874	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
118	0.642006	-77.42599	37.21681	0.642006	Unsegmented rivers in J15	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
119	0.393042	-77.42619	37.21669	0.393042	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
120	5.19486	-77.42628	37.21661	5.19486	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
121	2.55127	-77.42641	37.21648	2.55127	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
122	82.4403	-77.42651	37.21633	82.4403	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/12/2018
123	2.71879	-77.42731	37.21186	2.71879	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
124	4.95498	-77.42883	37.21478	4.95498	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
125	0.927206	-77.42946	37.21508	0.927206	Unsegmented rivers in J15	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
126	20.916	-77.42971	37.21378	20.916	UT Brickhouse Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
127	7.17433	-77.43104	37.21436	7.17433	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
128	6.05207	-77.43119	37.21435	6.05207	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
129	3.6375	-77.43174	37.21398	3.6375	Unsegmented rivers in J15	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
130	5.81427	-77.43176	37.21397	5.81427	Unsegmented rivers in J15	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
131	37.6073	-77.43238	37.21468	37.6073	Unsegmented rivers in J15	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
132	2.44895	-77.43279	37.21436	2.44895	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
133	3.34393	-77.43289	37.21432	3.34393	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019

City of Petersburg, VA
MS4 Outfall Table
August 2023

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134	1.89814	-77.43375	37.21376	1.89814	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
135	1.21587	-77.43462	37.21291	1.21587	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
136	10.4715	-77.43458	37.21288	10.4715	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
137	0.075312	-77.43459	37.21287	0.075312	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
138	1.12397	-77.43472	37.21273	1.12397	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
139	11.622	-77.43466	37.21277	11.622	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
140	7.42063	-77.43488	37.20968	7.42063	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
141	18.2378	-77.43405	37.2085	18.237801	Unsegmented rivers in J15	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
142	10.1538	-77.4343	37.20782	10.1538	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
143	1.85757	-77.43246	37.20681	1.85757	UT Brickhouse Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
144	107.065	-77.43205	37.20687	107.065002	UT Brickhouse Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
145	7.68612	-77.43454	37.20605	7.68612	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
146	2.08381	-77.43459	37.20603	2.08381	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
147	1.44762	-77.4359	37.20338	1.44762	UT Brickhouse Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
148	1.29951	-77.43593	37.20333	1.29951	UT Brickhouse Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
149	4.18584	-77.43587	37.20333	4.18584	UT Brickhouse Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/21/2021
150	2.02578	-77.41813	37.20282	2.02578	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
151	0.637549	-77.41803	37.20285	0.637549	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
152	6.28284	-77.41683	37.20334	6.28284	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
153	22.936	-77.39658	37.23375	22.936001	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
154	4.58564	-77.39651	37.23378	4.58564	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
155	0.155511	-77.39668	37.23383	0.155511	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
156	0.34578	-77.39661	37.23387	0.34578	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
157	7.30491	-77.39619	37.23225	7.30491	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
158	3.36145	-77.39654	37.23029	3.36145	Lieutenant Run	20802	Yes	B-2	Chesapeake Bay; Appomattox River	20802071001	<Null>
159	2.4722	-77.39682	37.22762	2.4722	Lieutenant Run	20802	Yes	B-2	Chesapeake Bay; Appomattox River	20802071001	<Null>
160	16.1638	-77.3969	37.2276	16.163799	Lieutenant Run	20802	Yes	B-2	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
161	0.719677	-77.3969	37.22741	0.719677	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
162	13.497	-77.3969	37.22743	13.497	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
163	1.10522	-77.39683	37.22743	1.10522	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
164	3.53384	-77.39671	37.22701	3.53384	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
165	37.8688	-77.39845	37.22393	37.868801	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
166	1.00207	-77.39861	37.2239	1.00207	UT Lieutenant Run	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
167	0.303971	-77.39878	37.22383	0.303971	UT Lieutenant Run	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	<Null>
168	0.208012	-77.39878	37.2238	0.208012	UT Lieutenant Run	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
169	1.20084	-77.39879	37.22341	1.20084	UT Lieutenant Run	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
170	0.694055	-77.39889	37.22252	0.694055	UT Lieutenant Run	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	<Null>
171	0.27379	-77.39893	37.22234	0.27379	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
172	3.07842	-77.39895	37.22233	3.07842	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
173	0.456608	-77.39902	37.22221	0.456608	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	6/18/2019
174	15.1585	-77.40777	37.21455	15.1585	UT Lieutenant Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	<Null>
175	0.661999	-77.40576	37.20991	0.661999	UT Lieutenant Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
176	4.21778	-77.40569	37.20991	4.21778	UT Lieutenant Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	4/26/2023

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp ction
177	2.80123	-77.40675	37.20965	2.80123	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
178	0.505597	-77.40801	37.20963	0.505597	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
179	0.295793	-77.40802	37.20959	0.295793	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
180	16.4555	-77.40875	37.21008	16.4555	UT Lieutenant Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
181	3.99203	-77.41377	37.20498	3.99203	Lieutenant Run	20802	Yes	R-2	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
182	3.65921	-77.41466	37.20427	3.65921	Lieutenant Run	20802	Yes	R-2	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
183	12.4444	-77.41637	37.2038	12.4444	Lieutenant Run	20802	Yes	R-2	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
184	4.39934	-77.41321	37.20537	4.39934	Lieutenant Run	20802	Yes	R-2	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
185	14.5689	-77.41156	37.20653	14.5689	Lieutenant Run	20802	Yes	R-2	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
186	6.05123	-77.41107	37.20679	6.05123	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
187	3.38524	-77.41099	37.20683	3.38524	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
188	2.2245	-77.39509	37.22504	2.2245	Lieutenant Run	20802	Yes	R-3	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
189	12.0192	-77.39417	37.22441	12.0192	Lieutenant Run	20802	Yes	R-3	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
190	1.19539	-77.39432	37.22436	1.19539	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
191	1.19781	-77.39423	37.22424	1.19781	Lieutenant Run	20802	Yes	R-3	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
192	0.382287	-77.39393	37.22404	0.382287	Lieutenant Run	20802	Yes	R-3	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
193	6.30528	-77.39413	37.22418	6.30528	Lieutenant Run	20802	Yes	R-3	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
194	0.290514	-77.39418	37.22421	0.290514	Lieutenant Run	20802	Yes	R-3	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
195	0.534356	-77.39258	37.21791	0.534356	UT Lieutenant Run	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
196	0.552853	-77.39264	37.21795	0.552853	Lieutenant Run	20802	Yes	R-3	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
197	14.8938	-77.39235	37.21777	14.8938	UT Lieutenant Run	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
198	0.845931	-77.3933	37.21789	0.845931	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
199	4.66013	-77.39343	37.21794	4.66013	Lieutenant Run	20802	Yes	RB	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
200	2.19903	-77.39433	37.21698	2.19903	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
201	1.05318	-77.39656	37.21576	1.05318	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
202	1.47	-77.39659	37.21574	2.84136	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
203	7.5854	-77.39658	37.21577	7.5854	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
204	12.2783	-77.39661	37.21576	12.2783	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
205	2.34878	-77.39769	37.21406	2.34878	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
206	8.34323	-77.38483	37.21969	8.34323	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
207	5.36875	-77.3865	37.21949	5.36875	UT Lieutenant Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
208	0.43627	-77.38811	37.22055	0.43627	UT Lieutenant Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
209	0.453256	-77.38686	37.2213	0.453256	UT Lieutenant Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
210	12.0398	-77.38829	37.22278	12.0398	UT Lieutenant Run	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
211	13.7191	-77.38409	37.22192	13.7191	UT Lieutenant Run	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
212	4.53691	-77.39278	37.21496	4.53691	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
213	1.63102	-77.38794	37.21333	1.63102	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
214	1.10215	-77.38651	37.21382	1.10215	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
215	5.40454	-77.38789	37.21615	5.40454	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
216	2.15487	-77.39101	37.21436	2.15487	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
217	6.94359	-77.38445	37.21191	6.94359	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
218	4.50935	-77.38627	37.2126	4.50935	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
219	5.47236	-77.38982	37.2133	5.47236	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp ction
220	4.25709	-77.39014	37.2117	4.25709	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
221	4.92329	-77.39	37.21011	4.92329	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	2/19/2018
222	4.57916	-77.39415	37.21493	4.57916	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
223	7.75903	-77.393	37.21232	7.75903	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
224	11.2787	-77.39612	37.21333	11.2787	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
225	5.80362	-77.4025	37.20756	5.80362	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
226	2.23756	-77.40152	37.2067	2.23756	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
227	5.87093	-77.40138	37.20672	5.87093	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
228	4.37025	-77.40073	37.20497	4.37025	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
229	4.05614	-77.3997	37.20376	4.05614	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
230	0.219818	-77.39964	37.20372	0.219818	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
231	2.71348	-77.39962	37.20373	2.71348	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
232	3.32752	-77.40078	37.20675	3.32752	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
233	8.48805	-77.40065	37.2065	8.48805	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
234	1.30809	-77.40087	37.20991	1.30809	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
235	10.1456	-77.40079	37.21011	10.1456	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
236	0.606627	-77.39993	37.21098	0.606627	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
237	0.694223	-77.39884	37.21123	0.694223	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
238	8.82807	-77.39684	37.20965	8.82807	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
239	8.33449	-77.39495	37.20961	8.33449	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
240	17.3795	-77.39482	37.20941	17.379499	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
241	4.12576	-77.39648	37.20925	4.12576	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
242	7.80527	-77.39592	37.20688	7.80527	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
243	1.9167	-77.3931	37.20633	1.9167	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
244	7.43544	-77.39371	37.20699	7.43544	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
245	2.06023	-77.3989	37.21139	2.06023	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
246	2.39328	-77.39884	37.21133	2.39328	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
247	3.03784	-77.40307	37.209	3.03784	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
248	3.88381	-77.40308	37.20899	3.88381	Lieutenant Run	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
249	1.70819	-77.40607	37.20305	1.70819	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
250	5.79903	-77.40526	37.20266	5.79903	Unsegmented rivers in J15	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
251	0.216104	-77.40546	37.20225	0.216104	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
252	8.52126	-77.40449	37.20527	8.52126	UT Lieutenant Run	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
253	1.95877	-77.40454	37.20541	1.95877	UT Lieutenant Run	20802	No	R-4	Chesapeake Bay; Appomattox River	20802071001	<Null>
254	12.0813	-77.40746	37.19453	12.0813	UT Lieutenant Run	20802	No	R-1A	Chesapeake Bay; Appomattox River	20802071001	<Null>
255	19.8989	-77.40733	37.19449	19.898899	UT Lieutenant Run	20802	No	R-1A	Chesapeake Bay; Appomattox River	20802071001	<Null>
256	1.87521	-77.40874	37.19047	1.87521	Unsegmented rivers in J15	20802	No	R-1A	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
257	0.605245	-77.40874	37.1904	0.605245	Unsegmented rivers in J15	20802	No	R-1A	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
258	0.902027	-77.40837	37.19043	0.902027	Unsegmented rivers in J15	20802	No	R-1A	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
259	0.562819	-77.40838	37.19039	0.562819	Unsegmented rivers in J15	20802	No	R-1A	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
260	4.57737	-77.39464	37.19448	4.57737	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
261	9.49396	-77.39457	37.19529	9.49396	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
262	2.2295	-77.39454	37.19539	2.2295	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/27/2021

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp ction
263	64.939	-77.394	37.19754	64.939003	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
264	5.77964	-77.39462	37.19726	5.77964	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
265	2.16118	-77.39468	37.1972	2.16118	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
266	2.30262	-77.39852	37.19441	2.30262	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
267	4.03597	-77.39816	37.1941	4.03597	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
268	8.39503	-77.39821	37.19286	8.39503	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
269	2.11495	-77.4007	37.19692	2.11495	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/27/2021
270	3.32717	-77.39854	37.20139	3.32717	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
271	17.3464	-77.39233	37.20588	17.346399	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
272	52.9926	-77.3912	37.20593	52.992599	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
273	2.28836	-77.39162	37.20558	2.28836	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	4/26/2023
274	1.74638	-77.38405	37.23369	1.74638	UT Poor Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
275	0.751478	-77.38416	37.23375	0.751478	UT Poor Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
276	2.07117	-77.38327	37.2323	2.07117	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
277	0.334716	-77.3835	37.23218	0.334716	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
278	0.058922	-77.38403	37.23117	0.058922	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
279	0.098768	-77.384	37.23111	0.098768	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
280	5.02018	-77.38526	37.23004	5.02018	UT Poor Creek	20802	No	R-3	Chesapeake Bay; Appomattox River	20802071001	<Null>
281	0.127946	-77.38453	37.22915	0.127946	UT Poor Creek	20802	No	Developed	<Null>	20802071001	3/1/2018
282	3.67912	-77.38464	37.22933	3.67912	UT Poor Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
283	0.162662	-77.38331	37.2305	0.162662	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
284	5.68272	-77.3816	37.23188	5.68272	UT Poor Creek	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
285	7.508	-77.38853	37.23276	7.508	UT Poor Creek	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
286	0.804813	-77.38506	37.23582	0.804813	Poor Creek	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
287	0.707948	-77.38588	37.23579	0.707948	Poor Creek	20802	Yes	M-2	Chesapeake Bay; Appomattox River	20802071001	<Null>
288	18.4617	-77.38432	37.23629	18.4617	Poor Creek	20802	Yes	NODATA	Chesapeake Bay; Appomattox River	20802071001	<Null>
289	4.51093	-77.37775	37.23462	4.51093	Poor Creek	20802	Yes	M-1	Chesapeake Bay; Appomattox River	20802071001	3/1/2018
290	1.76858	-77.37638	37.23296	1.76858	Poor Creek	20802	Yes	M-1	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
291	1.77426	-77.3758	37.23296	1.77426	Poor Creek	20802	Yes	R-4	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
292	6.15784	-77.3757	37.23242	6.15784	Poor Creek	20802	Yes	R-4	Chesapeake Bay; Appomattox River	20802071001	6/1/2022
293	8.25252	-77.38237	37.21136	8.25252	Poor Creek	20802	Yes	R-4	Chesapeake Bay; Appomattox River	20802071001	<Null>
294	12.6931	-77.38069	37.21179	12.6931	Poor Creek	20802	Yes	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
295	2.18896	-77.3821	37.21057	2.18896	Poor Creek	20802	Yes	R-4	Chesapeake Bay; Appomattox River	20802071001	<Null>
296	9.27891	-77.38116	37.20613	9.27891	UT Poor Creek	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
297	7.01107	-77.38114	37.20612	7.01107	UT Poor Creek	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
298	4.19396	-77.3806	37.20739	4.19396	UT Poor Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
299	1.7544	-77.38103	37.20739	1.7544	UT Poor Creek	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
300	0.215715	-77.37706	37.20587	0.215715	UT Poor Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
301	8.57969	-77.37704	37.20585	8.57969	UT Poor Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/28/2021
302	2.01608	-77.37714	37.20578	2.01608	UT Poor Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
303	28.0275	-77.37743	37.2055	28.0275	UT Poor Creek	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
304	2.02734	-77.37655	37.20694	2.02734	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
305	2.9917	-77.37664	37.2069	2.9917	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/23/2022

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp ction
306	2.01727	-77.3763	37.20761	2.01727	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/28/2021
307	6.17212	-77.37635	37.20758	6.17212	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
308	1.3383	-77.37693	37.20835	1.3383	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/28/2021
309	0.816582	-77.37672	37.20847	0.816582	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/28/2021
310	5.42799	-77.37652	37.20931	5.42799	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/28/2021
311	2.46168	-77.37682	37.2093	2.46168	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	5/28/2021
312	5.27004	-77.37167	37.21001	5.27004	UT Poor Creek	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	<Null>
313	4.02886	-77.37178	37.21023	4.02886	UT Poor Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
314	0.622546	-77.36227	37.2155	0.622546	UT Harrison Creek	20802	No	M-1	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
315	2.09519	-77.36182	37.21526	2.09519	UT Harrison Creek	20802	No	B-2	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
316	16.9178	-77.36202	37.21809	16.917801	UT Harrison Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
317	10.9688	-77.36085	37.21878	10.9688	UT Harrison Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
318	8.18731	-77.35831	37.22124	8.18731	Harrison Creek	20802	Yes	R-1A	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
319	15.254	-77.35241	37.21915	15.254	UT Harrison Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	5/23/2022
320	0.509374	-77.34383	37.20743	0.509374	UT Blackwater Swamp	30102	No	M-2	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
321	2.03523	-77.34258	37.20655	2.03523	UT Blackwater Swamp	30102	No	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
322	3.69906	-77.33789	37.20091	3.69906	UT Blackwater Swamp	30102	No	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
323	3.9483	-77.33965	37.20134	3.9483	UT Blackwater Swamp	30102	No	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
324	3.99496	-77.34056	37.20235	3.99496	UT Blackwater Swamp	30102	No	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
325	5.3389	-77.34048	37.20222	5.3389	UT Blackwater Swamp	30102	No	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
326	1.98189	-77.3468	37.19006	1.98189	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
327	2.49489	-77.34682	37.19007	2.49489	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
328	12.1278	-77.34515	37.18459	12.1278	UT Blackwater Swamp	30102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
329	2.99132	-77.34603	37.18428	2.99132	Unsegmented Rivers in K31	30102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
330	28.4016	-77.34318	37.1837	28.4016	Unsegmented Rivers in K31	30102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
331	13.3364	-77.3548	37.17563	13.3364	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
332	5.5842	-77.35925	37.17501	5.5842	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020101	5/14/2020
333	2.65485	-77.3625	37.1725	2.65485	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020101	5/14/2020
334	5.16885	-77.36257	37.1725	5.16885	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020101	5/14/2020
335	1.89736	-77.36256	37.17237	1.89736	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020101	5/14/2020
336	2.41045	-77.36249	37.17237	2.41045	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020101	5/14/2020
337	21.2603	-77.36264	37.1728	21.2603	UT Blackwater Swamp	30102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020101	5/14/2020
338	2.04157	-77.3562	37.17844	2.04157	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
339	1.07745	-77.35736	37.17933	1.07745	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
340	3.18112	-77.35743	37.1793	3.18112	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
341	0.623575	-77.36895	37.17933	0.623575	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
342	0.968803	-77.36958	37.18013	0.968803	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
343	5.59863	-77.3698	37.1799	5.59863	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
344	7.24608	-77.37025	37.18092	7.24608	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
345	0.464267	-77.37132	37.17763	0.464267	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
346	0.40522	-77.37133	37.17772	0.40522	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
347	0.48271	-77.37135	37.17797	0.48271	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
348	0.887333	-77.37145	37.17863	0.887333	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp ction
349	0.639141	-77.37143	37.17974	0.639141	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
350	0.315072	-77.37285	37.17783	0.315072	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
351	1.57266	-77.37281	37.17791	1.57266	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
352	3.12431	-77.37116	37.18384	3.12431	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
353	20.8263	-77.36928	37.18723	20.8263	Blackwater Swamp	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
354	1.34075	-77.36932	37.18728	1.34075	Blackwater Swamp	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
355	12.1188	-77.36953	37.1871	12.1188	Blackwater Swamp	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
356	3.2583	-77.36958	37.18716	3.2583	Blackwater Swamp	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
357	0.714775	-77.36064	37.18787	0.714775	UT Blackwater Swamp	30102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
358	0.935638	-77.36063	37.18777	0.935638	UT Blackwater Swamp	30102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
359	2.015	-77.36031	37.18737	2.015	UT Blackwater Swamp	30102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
360	3.20716	-77.36012	37.1874	3.20716	UT Blackwater Swamp	30102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
361	0.125573	-77.36	37.18673	0.125573	UT Blackwater Swamp	30102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
362	0.152798	-77.36	37.1867	0.152798	UT Blackwater Swamp	30102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
363	2.11965	-77.36179	37.18921	2.11965	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
364	8.07224	-77.36238	37.18929	8.07224	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
365	1.1065	-77.36166	37.1892	1.1065	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
366	28.4703	-77.3847	37.22711	28.470301	UT Lieutenant Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	3/6/2018
367	20.531	-77.38116	37.22827	20.531	Unsegmented rivers in J15	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	3/6/2018
368	2.39032	-77.37766	37.18563	2.39032	UT Blackwater Swamp	30102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
369	0.858455	-77.38248	37.18964	0.858455	UT Blackwater Swamp	30102	No	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
370	9.30103	-77.3646	37.20102	9.30103	Blackwater Swamp	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
371	6.9055	-77.36572	37.19913	6.9055	Blackwater Swamp	30102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
372	1.27946	-77.36603	37.19906	1.27946	Blackwater Swamp	30102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
373	1.48531	-77.36848	37.19716	1.48531	Unsegmented Rivers in K31	30102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
374	3.02	-77.36903	37.19757	3.02	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
375	4.76064	-77.37023	37.19732	4.76064	Unsegmented Rivers in K31	30102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
376	8.11448	-77.37176	37.19735	8.11448	Unsegmented Rivers in K31	30102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
377	6.90981	-77.37218	37.19727	6.90981	Unsegmented Rivers in K31	30102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
378	2.8294	-77.36791	37.20124	2.8294	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
379	16.845	-77.36801	37.20121	16.844999	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
380	0.602606	-77.36785	37.20115	0.602606	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
381	3.45581	-77.36792	37.20113	3.45581	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
382	2.51021	-77.37498	37.19863	2.51021	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
383	0.432832	-77.37495	37.19862	0.432832	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
384	5.65486	-77.37605	37.19909	5.65486	UT Blackwater Swamp	30102	No	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
385	0.637942	-77.37565	37.19992	0.637942	UT Blackwater Swamp	30102	No	RB	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
386	6.00097	-77.37433	37.20132	6.00097	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
387	11.9324	-77.37421	37.20135	11.9324	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
388	3.63571	-77.37496	37.20109	3.63571	UT Blackwater Swamp	30102	No	RB	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
389	2.10078	-77.37546	37.20086	2.10078	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
390	5.16211	-77.37556	37.20082	5.16211	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
391	2.97972	-77.37663	37.19757	2.97972	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	<Null>

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp ction
392	9.49664	-77.37694	37.19762	9.49664	Unsegmented Rivers in K31	30102	Yes	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/18/2019
393	2.38412	-77.37688	37.19755	2.38412	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/18/2019
394	0.869217	-77.38639	37.18861	0.869217	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
395	14.1805	-77.38641	37.18861	14.1805	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
396	0.499648	-77.38637	37.18899	0.499648	Unsegmented Rivers in K31	30102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
397	0.357945	-77.38618	37.189	0.357945	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
398	16.3695	-77.38771	37.18907	16.369499	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
399	3.133	-77.38508	37.18992	3.133	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
401	20.743	-77.38476	37.19111	20.743	UT Blackwater Swamp	30102	No	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	<Null>
402	0.806843	-77.38374	37.19059	0.806843	Unsegmented Rivers in K31	30102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
403	0.968768	-77.38354	37.19061	0.968768	Unsegmented Rivers in K31	30102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
404	1.42929	-77.38354	37.19054	1.42929	Unsegmented Rivers in K31	30102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
405	0.663645	-77.38216	37.19058	0.663645	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
406	3.25174	-77.38202	37.19073	3.25174	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	<Null>
407	1.8445	-77.38219	37.1907	1.8445	Unsegmented Rivers in K31	30102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
408	0.319964	-77.38077	37.1917	0.319964	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
409	4.09282	-77.38063	37.19178	4.09282	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
410	4.57157	-77.38077	37.1918	4.57157	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
411	2.14126	-77.3807	37.19228	2.14126	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
412	9.25132	-77.37938	37.19319	9.25132	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/18/2019
413	0.433194	-77.37951	37.19329	0.433194	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/18/2019
414	6.41471	-77.37936	37.19339	6.41471	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/18/2019
415	0.493286	-77.37804	37.1953	0.493286	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/18/2019
416	1.35117	-77.37827	37.19398	1.35117	Unsegmented Rivers in K31	30102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
417	1.38899	-77.37816	37.19435	1.38899	Unsegmented Rivers in K31	30102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/14/2020
418	0.608675	-77.37718	37.19486	0.608675	Unsegmented Rivers in K31	30102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/18/2019
419	8.7478	-77.37787	37.19665	8.7478	UT Blackwater Swamp	30102	No	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
420	1.27018	-77.37962	37.19598	1.27018	UT Blackwater Swamp	30102	No	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/18/2019
421	0.93957	-77.38048	37.19546	0.93957	UT Blackwater Swamp	30102	No	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/18/2019
422	27.92	-77.38292	37.2011	27.92	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
423	1.77073	-77.38664	37.20144	1.77073	UT Blackwater Swamp	30102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
424	2.71811	-77.38675	37.2016	2.71811	UT Blackwater Swamp	30102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
425	2.10162	-77.38686	37.20157	2.10162	UT Blackwater Swamp	30102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	<Null>
426	0.904887	-77.38687	37.20161	0.904887	UT Blackwater Swamp	30102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
427	18.5598	-77.38687	37.20171	18.559799	UT Blackwater Swamp	30102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
428	29.7003	-77.38305	37.19903	29.7003	Unsegmented Rivers in K31	30102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	6/22/2020
429	22.4244	-77.3857	37.19843	22.4244	Unsegmented Rivers in K31	30102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
430	5.53549	-77.38587	37.19872	5.53549	Unsegmented Rivers in K31	30102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
431	23.4215	-77.38605	37.19857	23.421499	Unsegmented Rivers in K31	30102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
432	1.76437	-77.38516	37.1993	1.76437	Unsegmented Rivers in K31	30102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
433	18.1675	-77.35767	37.2069	18.1675	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	<Null>
434	0.287824	-77.34366	37.20818	0.287824	UT Blackwater Swamp	30102	No	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
435	4.55016	-77.3529	37.19135	4.55016	Unsegmented Rivers in K31	30102	Yes	M-2	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	<Null>

City of Petersburg, VA
MS4 Outfall Table
August 2023

Outfall_ID	DA_Acres	Latitude	Longitude	Reg_DA_Acres	Rec_WatName	HUC_6	Impair_201	Land_Use	EPA_AP_TMDLs	HUC_12	Dry_Wea_Insp
											ction
436	1.98827	-77.35387	37.19157	1.98827	Unsegmented Rivers in K31	30102	Yes	M-2	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	<Null>
437	1.60764	-77.38567	37.2126	1.60764	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	3/13/2018
438	2.54474	-77.38729	37.21055	2.54474	UT Lieutenant Run	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	3/13/2018
439	9.82755	-77.38725	37.2097	9.82755	UT Lieutenant Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/13/2018
440	2.02051	-77.40156	37.19457	2.02051	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	3/13/2018
441	2.93717	-77.3993	37.1961	2.93717	Unsegmented rivers in J15	20802	No	R-1	Chesapeake Bay; Appomattox River	20802071001	3/13/2018
442	4.04922	-77.37663	37.19771	4.04922	Unsegmented Rivers in K31	30102	Yes	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
443	2.55558	-77.34145	37.21012	2.55558	Unsegmented Rivers in K31	30102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	5/23/2022
444	7.3598	-77.34678	37.19007	7.3598	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/6/2018
450	2.25791	-77.37083	37.24349	2.25791	Harrison Creek	20802	Yes	M-2	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
451	0.720606	-77.3709	37.24348	0.720606	Harrison Creek	20802	Yes	M-2	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
453	0.307611	-77.3495	37.21956	0.307611	UT Harrison Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
454	2.57263	-77.34949	37.21957	2.57263	UT Harrison Creek	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
455	12.165	-77.37431	37.18081	12.165	UT Blackwater Swamp	30102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/21/2018
456	3.80534	-77.39633	37.18987	3.80534	Unsegmented rivers in J15	20802	No	NODATA	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
457	4.85856	-77.39613	37.19009	4.85856	Unsegmented rivers in J15	20802	No	NODATA	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
458	5.15921	-77.39523	37.1909	5.15921	Unsegmented rivers in J15	20802	No	R-1A	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
459	1.25252	-77.39393	37.19249	1.25252	UT Lieutenant Run	20802	No	R-1A	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
460	1.13786	-77.38914	37.19491	1.13786	UT Blackwater Swamp	30102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/21/2018
461	1.95391	-77.39699	37.18816	1.95391	Unsegmented rivers in J15	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
462	190.729	-77.40011	37.22153	190.729004	UT Lieutenant Run	20802	No	RB	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
463	3.98804	-77.3999	37.21424	3.98804	UT Lieutenant Run	20802	No	R-2	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
464	0.536474	-77.41444	37.2154	0.536474	UT Brickhouse Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
465	4.51223	-77.41429	37.21497	4.51223	UT Brickhouse Run	20802	No	Developed	Chesapeake Bay; Appomattox River	20802071001	3/21/2018
466	2.81245	-77.37222	37.18816	2.81245	UT Blackwater Swamp	30102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp	30102020102	3/21/2018
467	3.15	-77.39619	37.23269	3.15	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
468	1.1	-77.39622	37.23119	1.1	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
469	14.146	-77.39632	37.231	14.146	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
470	1.047	-77.39609	37.22821	1.047	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
471	5.859	-77.39336	37.22366	5.859	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
472	1.068	-77.39325	37.22326	1.068	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
473	11.91	-77.39223	37.22054	11.91	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
474	41.738	-77.39223	37.22055	41.738	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
475	1.533	-77.39771	37.21486	1.533	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>
476	2.859	-77.39536	37.21637	2.859	Lieutenant Run	20802	Yes	Developed	Chesapeake Bay; Appomattox River	20802071001	<Null>



APPENDIX E

OBJECTID * Shape *	BMP_ID *	Latitude	Longitude	Acres_Trea	Pervious_A	Impervious	Online_Dat	Ownership	HUC_6	WithinRegA	WithinChes	Maint_Agr	Rec_InspDate
2 Point		-77.4163	37.1798	13.1008	5.3023	7.79854	4/6/2007	Private	30102	No	No	Yes	6/12/2020
3 Point		-77.3668	37.184	3.05047	1.23294	1.81754	6/3/1996	Private	30102	No	No	No	6/2/2020
4 Point	004B	-77.3654	37.185	10.4406	3.69153	6.74905	6/3/1996	Private	30102	No	No	No	6/12/2020
28 Point		-77.3502	37.1901	1.90715	1.28649	0.62066	#####	Private	30102	No	No	No	5/14/2020
29 Point		-77.3751	37.1905	2.10061	1.58158	0.519022	#####	Private	30102	No	No	No	6/2/2020
34 Point		-77.4205	37.206	1.2411	0.756284	0.48482	5/5/1976	Private	20802	Yes	Yes	No	6/1/2020
72 Point		-77.4135	37.1768	19.2186	14.3246	4.89397	#####	Private	30102	No	No	No	6/2/2020
42 Point		-77.4432	37.2168	0.889128	0.246197	0.642931	#####	Private	20802	Yes	Yes	No	6/1/2020
48 Point		-77.4004	37.2192	0.484828	0.209002	0.275826	#####	Private	20802	Yes	Yes	No	6/1/2020
47 Point	014A	-77.4066	37.2192	0.904976	0.664877	0.2401	#####	Private	20802	Yes	Yes	No	6/1/2020
50 Point	014B	-77.4067	37.2203	1.30107	0.349746	0.951322	#####	Private	20802	Yes	Yes	Yes	6/1/2020
51 Point		-77.414	37.2214	1.00192	0.736071	0.265848	#####	Private	20802	Yes	Yes	No	6/22/2020
58 Point		-77.3949	37.2326	2.58241	0.504822	2.07758	#####	Private	20802	Yes	Yes	Yes	6/22/2020
65 Point		-77.3513	37.2109	0.846431	0.44552	0.400911	6/7/2002	Private	30102	No	No	No	6/12/2020
73 Point		-77.3713	37.1886	2.56992	0.427384	2.14254	#####	Private	30102	No	No	No	6/22/2020
74 Point		-77.3395	37.2017	1.03823	0.395915	0.642314	#####	Private	30102	No	No	No	6/12/2020
62 Point	025A	-77.4112	37.2283	1.58685	0.441678	1.14518	8/1/2011	Private	20802	Yes	Yes	Yes	6/1/2020
75 Point	025B	-77.4104	37.2288	2.16882	1.58471	0.584112	8/1/2011	Private	20802	Yes	Yes	No	6/1/2020
57 Point	025C	-77.4097	37.2289	1.48229	1.3493	0.132991	8/1/2011	Private	20802	Yes	Yes	Yes	6/1/2020
82 Point		-77.369	37.1893	0.362664	0.182515	0.180149	#####	Private	30102	No	No	No	6/25/2019
66 Point		-77.3711	37.2346	0.744565	0.33474	0.409824	6/1/2014	Public	20802	Yes	Yes	NA	5/9/2023
69 Point	028A	-77.3652	37.1793	9.555	3.14122	6.41378	6/2/1993	Private	30102	No	No	No	5/14/2020
71 Point	028B	-77.365	37.1787	2.76064	1.15148	1.60916	6/2/1993	Private	30102	No	No	No	5/14/2020
70 Point		-77.3683	37.1792	6.32614	1.66267	4.66346	6/2/1993	Private	30102	No	No	No	5/14/2020
33 Point		-77.4251	37.2055	4.35299	1.16471	3.18828	#####	Private	20802	Yes	Yes	No	6/1/2020
14 Point		-77.3693	37.1865	4.1709	1.62601	2.54489	9/7/2007	Private	30102	No	No	No	6/2/2020
37 Point		-77.3687	37.1839	13.9645	2.64207	11.3225	#####	Private	30102	No	No	No	6/2/2020
79 Point		-77.3787	37.184	2.66512	1.09619	1.56893	#####	Private	30102	No	No	No	6/2/2020
67 Point		-77.3974	37.1791	49.9236	37.7595	12.1642	#####	Public	30102	No	No	NA	5/9/2023
68 Point		-77.3943	37.1776	69.5888	60.8696	8.71918	#####	Public	30102	No	No	NA	5/9/2023
77 Point		-77.3738	37.2419	11.3614	1.08787	10.2735	#####	Private	20802	No	Yes	No	6/24/2020
15 Point		-77.3964	37.1873	8.46214	3.67024	4.7919	#####	Public	20802	No	Yes	NA	5/9/2023
16 Point		-77.3675	37.1881	24.0228	10.5079	13.5149	#####	Private	30102	No	No	No	6/2/2020

25 Point		44	-77.3642	37.1893	1.52072	1.11263	0.408093	#####	Private	30102	No	No	No	6/2/2020
18 Point	045A		-77.363	37.1887	0.398985	0.39032	0.008664	#####	Private	30102	No	No	No	6/2/2020
23 Point	045B		-77.3624	37.1882	0.251856	0.244384	0.007472	#####	Private	30102	No	No	No	6/2/2020
22 Point	045C		-77.3633	37.1887	0.142926	0.140739	0.002187	#####	Private	30102	No	No	No	6/2/2020
21 Point	045D		-77.3634	37.1887	0.121289	0.108226	0.013063	#####	Private	30102	No	No	No	6/2/2020
19 Point	045E		-77.3634	37.1888	0.152993	0.13993	0.013063	#####	Private	30102	No	No	No	6/2/2020
20 Point	045F		-77.3635	37.1887	0.147401	0.130121	0.01728	#####	Private	30102	No	No	No	6/2/2020
80 Point	045G		-77.364	37.1888	0.180992	0.16222	0.018772	#####	Private	30102	No	No	No	6/2/2020
64 Point		48	-77.4416	37.2181	0.856256	0.667958	0.188298	#####	Private	20802	Yes	Yes	No	6/22/2020
60 Point		49	-77.3677	37.2403	0.996218	0.736519	0.259699	#####	Private	20802	Yes	Yes	No	6/12/2020
52 Point		50	-77.3569	37.2076	10.6053	5.47143	5.13383	#####	Private	30102	No	No	Yes	6/12/2020
5 Point		51	-77.3582	37.1817	25.5129	10.9607	14.5522	#####	Private	30102	No	No	No	5/14/2020
6 Point		52	-77.3609	37.1838	14.2737	7.807	6.46673	#####	Private	30102	No	No	No	5/14/2020
7 Point		55	-77.3612	37.1824	3.06787	1.38435	1.68352	#####	Private	30102	No	No	No	5/14/2020
8 Point		56	-77.3588	37.1833	2.90756	1.77265	1.13491	#####	Private	30102	No	No	No	5/14/2020
9 Point		57	-77.3596	37.1837	4.85271	3.3946	1.45811	#####	Private	30102	No	No	No	5/14/2020
10 Point	058A		-77.3585	37.1836	2.04801	1.03885	1.00916	#####	Private	30102	No	No	No	5/14/2020
11 Point	058B		-77.3578	37.1836	1.36253	0.550683	0.811849	#####	Private	30102	No	No	No	5/14/2020
40 Point		60	-77.4104	37.213	0.30395	0.031098	0.272851	#####	Private	20802	Yes	Yes	Yes	6/1/2020
81 Point		61	-77.4049	37.2274	0.077817	0	0.077817	9/5/1991	Public	20802	Yes	Yes	No	5/9/2023
43 Point	063A		-77.4069	37.2184	0.525583	0.381343	0.14424	#####	Private	20802	Yes	Yes	No	6/22/2020
44 Point	063B		-77.4067	37.2189	0.42418	0.311867	0.112313	#####	Private	20802	Yes	Yes	No	6/1/2020
45 Point	063C		-77.4067	37.2189	0.431638	0.3656	0.066038	#####	Private	20802	Yes	Yes	No	6/1/2020
46 Point	063D		-77.4066	37.2189	1.47905	1.06215	0.416906	#####	Private	20802	Yes	Yes	No	6/1/2020
76 Point		66	-77.3803	37.2403	17.1635	15.9852	1.17831	9/8/2009	Private	20802	No	Yes	No	6/24/2020
63 Point		67	-77.3733	37.2416	2.85559	2.22484	0.630741	9/8/2009	Private	20802	No	Yes	No	6/24/2020
35 Point		70	-77.4416	37.2056	36.7883	31.8177	4.9706	#####	Private	20802	Yes	Yes	No	6/1/2020
31 Point		71	-77.4126	37.2004	17.84	14.2233	3.61669	#####	Private	20802	Yes	Yes	No	6/1/2020
39 Point		73	-77.3867	37.1876	33.112	8.01277	25.0992	#####	Private	30102	No	No	No	6/22/2020
26 Point		76	-77.3707	37.1902	0.710834	0.043749	0.667085	9/9/2013	Private	30102	No	No	Yes	6/2/2020
61 Point		77	-77.416	37.2309	0.133546	0.085327	0.048219	#####	Private	20802	Yes	Yes	Yes	6/12/2020
49 Point		79	-77.4119	37.2203	6.11705	2.5627	3.55435	#####	Private	20802	Yes	Yes	Yes	6/1/2020
13 Point	084A		-77.361	37.1863	15.6947	12.9038	2.79085	#####	Private	30102	No	No	No	6/22/2020
12 Point	084B		-77.3622	37.1835	2.11223	1.49515	0.617077	#####	Private	30102	No	No	No	6/22/2020

41 Point	85	-77.3565	37.2125	0.598282	0.509609	0.088672	#####	Private	20802	Yes	Yes	No	6/12/2020
38 Point	86	-77.3473	37.2096	1.10082	0.690235	0.410586	#####	Private	30102	No	No	Yes	6/12/2020
32 Point	87	-77.4304	37.2017	8.31976	2.2094	6.11036	#####	Private	20802	Yes	Yes	No	6/1/2020
54 Point	089A	-77.4076	37.2276	1.52842	1.37872	0.149703	#####	Private	20802	Yes	Yes	No	6/1/2020
55 Point	089B	-77.4079	37.2284	0.931661	0.84178	0.089882	#####	Private	20802	Yes	Yes	No	6/1/2020
56 Point	089C	-77.4076	37.228	0.615041	0.568505	0.046536	#####	Private	20802	Yes	Yes	No	6/1/2020
24 Point	90	-77.3512	37.1886	13.042	1.86535	11.1766	5/5/2008	Private	30102	No	No	No	6/25/2019
53 Point	91	-77.4124	37.2222	2.31869	1.67566	0.643027	4/5/2006	Private	20802	Yes	Yes	Yes	6/1/2020
27 Point	92	-77.351	37.1898	1.38386	0.543909	0.83995	#####	Private	30102	No	No	No	5/14/2020
17 Point	93	-77.3577	37.1869	1.21024	0.92982	0.280425	#####	Private	30102	No	No	Yes	6/25/2019
83 Point	100	-77.4298	37.21368	12.5181	8.90924	3.60883	#####	Private	20802	Yes	Yes	No	6/22/2020
84 Point	101	-77.3703	37.18031	11.9413	3.95862	7.98269	#####	Private	30102	Yes	No	No	6/25/2019
85 Point	102	-77.3818	37.21456	3.81127	2.03841	1.77287	#####	Private	20802	Yes	Yes	No	6/25/2019
86 Point	103	-77.3596	37.21501	4.792834	1.58743	3.2054	#####	Private	20802	Yes	Yes	No	6/25/2019
87 Point	104	-77.3608	37.21596	2.373272	1.39613	0.97714	#####	Private	20802	Yes	Yes	No	6/25/2019
88 Point	105	-77.4025	37.20074	3.182541	1.55783	1.62471	#####	Private	20802	Yes	Yes	No	6/20/2019
89 Point	106	-77.4046	37.2083	1.600966	0.79208	0.80889	#####	Private	20802	Yes	Yes	No	6/20/2019
90 Point	107	-77.3559	37.21236	3.654387	3.53977	0.11462	#####	Private	20802	Yes	Yes	Yes	6/25/2019
91 Point	108	-77.4127	37.22557	0.164628	0.1646	0	#####	Private	20802	Yes	Yes	No	6/13/2019
92 Point	109	-77.4127	37.22533	1.812765	0.13537	1.6774	#####	Private	20802	Yes	Yes	No	6/13/2019
93 Point	110	-77.3405	37.2023	1.111131	0.35637	0.75475	#####	Private	30102	Yes	No	No	6/25/2019
94 Point	111	-77.4118	37.22492	1.555244	0.22526	1.32998	#####	Private	20802	Yes	Yes	No	6/13/2019
95 Point	112	-77.338	37.20099	1.959284	0.65559	1.30369	#####	Private	30102	Yes	No	No	6/25/2019
96 Point	113	-77.412	37.22356	0.673632	0.47444	0.19919	#####	Private	20802	Yes	Yes	Yes	6/1/2020
97 Point	114	-77.3519	37.17328	34.02095	17.33409	16.68681	#####	Private	30102	Yes	No	No	6/12/2020
98 Point	115	-77.4245	37.21718	3.002727	0.442	2.56073	#####	Public	20802	Yes	Yes	Yes	5/9/2023
99 Point	116	-77.3715	37.18098	9.461967	6.85529	2.60666	#####	Private	30102	Yes	No	No	6/25/2019
100 Point	117	-77.3981	37.22673	1.047553	0.28678	0.76077	#####	Private	20802	Yes	Yes	No	6/13/2019
101 Point	118	-77.362	37.19001	2.352072	0.75807	1.594	#####	Private	30102	Yes	No	No	6/25/2019
102 Point	120	-77.3677	37.1935	6.810707	6.74942	0.06128	#####	Private	30102	Yes	No	Yes	6/2/2020
103 Point	121	-77.3691	37.1906	3.407616	2.44723	0.96038	#####	Private	30102	Yes	No	Yes	6/25/2019
104 Point	122	-77.4222	37.2248	0.854247	0.70962	0.1446	#####	Private	20802	Yes	Yes	Yes	6/20/2019
105 Point	123	-77.4089	37.215	0.828129	0.47881	0.34932	#####	unk	20802	Yes	Yes	Yes	6/1/2020
111 Point	124	-77.3397	37.2037	1.863397	0.4214	1.442	#####	Private	30102	Yes	No	Yes	6/13/2019

106 Point	125	-77.3979	37.2313	2.518787	0.50378	2.015	#####	Private	20802	Yes	Yes	Yes	Yes	6/20/2019
107 Point	126	-77.4257	37.2096	2.20127	1.05402	1.14725	#####	Private	20802	Yes	Yes	Yes	Yes	6/1/2020
108 Point	127	-77.4064	37.2213	0.21689	0.13593	0.08096	#####	Private	20802	Yes	Yes	No	No	6/20/2019
109 Point	128	-77.4259	37.2236	0.108137	0.09952	0.00862	#####	Private	20802	Yes	Yes	Yes	Yes	6/1/2020
110 Point	129	-77.366	37.1925	31.3201	30.24108	1.07902	#####	Private	20802	Yes	No	No	No	6/2/2020
112 Point	130	-77.4164	37.2309	0.277964	0.06474	0.21322	#####	Public	20802	Yes	Yes	No	No	5/9/2023
113 Point	131	-77.3588	37.18849	0.921667	0.0087	0.91296	#####	Private	30102	Yes	No	Yes	Yes	6/25/2019
114 Point	132	-77.3741	37.18047	11.09316	6.05292	5.04023	#####	Private	30102	Yes	No	No	No	6/25/2019
115 Point	133	-77.3694	37.19091	0.858258	0.76238	0.09588	#####	Private	30102	Yes	No	Yes	Yes	6/25/2019
116 Point	134	-77.3707	37.19106	0.481202	0.3548	0.1264	#####	Private	30102	Yes	No	Yes	Yes	6/25/2019
118 Point	135	-77.3756	37.2357	4.689206	2.639206	2.05	5/1/2021	Public	20802	Yes	Yes	No	No	5/9/2023
122 Point	138A	-77.4258	37.2017	0.1	0	0.1	#####	Private	20802	No	Yes	No	No	8/22/2023
123 Point	138B	-77.4258	37.2021	0.164	0	0.164	#####	Private	20802	No	Yes	No	No	8/22/2023
124 Point	138C	-77.4256	37.20243	0.101	0	0.101	#####	Private	20802	No	Yes	No	No	8/22/2023
119 Point	139	-77.3715	37.23587	0.229	0.219	0.01	1/1/2018	Public	20802	Yes	Yes	No	No	8/22/2023

WithinUrban	Watershed	Impaired	W	HUC_12	PAR_ID_12	Address_N	Address_St	Owner	Developme	Mail1	Mail2	Mail3	TMDL_Trac	BMPT	Type_'	BMP_Propi	PAR_ID	
No	Second Sw	Second Sw		3.01E+10	96010806	2020	BESSEMER L D J PETER	Bleachtech L D J PETER		19301	SHA CLEVELAND		No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater		3.01E+10	87030802	3333	CRATER RD SOUTH CR	Pinehill Pla SOUTH CR		PO BOX 31			Richmond	No	Extended C	<Null>	<Null>	
Yes	Blackwater	Blackwater		3.01E+10	87030802	3333	CRATER RD SOUTH CR	Pinehill Pla		PO BOX 31			Richmond	No	Extended C	<Null>	<Null>	
Yes	Blackwater	Unsegment		3.01E+10	83010805	<Null>	OLD WAGN	OTBR LLC Wagner Ro	BUCHANAN	595	OLD W PETERSBU		No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater		3.01E+10	81040003	100	FLANK RD	FORT DAVI	Mitchell W FORT DAVI	100	FLANK PETERSBU		No	Extended C	<Null>	<Null>		
Yes	Brickhouse	Appomattc		2.08E+10	51120001	1401	GRANT AV	NEW FIRST NEW FIRST	NEW FIRST	PO BOX 28			Petersburg	No	Bioretentic	<Null>	<Null>	
No	Second Sw	Second Sw		3.01E+10	96010804	1951	BESSEMER REBAR HOL	Triad Meta BOARS HEA	1 VILLAGE I	HORSHAM			No	Wet Ponds	<Null>	<Null>		
Yes	Rohoic Cre	Rohoic Cre		2.08E+10	27090008	2350	WASHINGT	BRANCHJA	What-A-Bu BRANCHJA	6224	COUF CHURCH R		No	Bioretentic	<Null>	<Null>		
Yes	Lieutenant	Lieutenant		2.08E+10	31080007	600	SYCAMORE H L	TOMLIN	OBYGN Clir H L TOMLIN	600	S SYCA PETERSBU		No	Extended C	<Null>	<Null>		
Yes	Lieutenant	Lieutenant		2.08E+10	31030016	<Null>	HALIFAX ST	TABERNAC	Tabernacle TABERNAC	418	HALIFA PETERSBU		No	Extended C	<Null>	<Null>		
Yes	Lieutenant	Lieutenant		2.08E+10	31020022	418	HALIFAX ST	TABERNAC	Little Angel	418	HALIFA PETERSBU		No	Extended C	<Null>	<Null>		
Yes	Brickhouse	Appomattc		2.08E+10	23390016	330	SOUTH ST	UNITY BAP	UNITY BAP	UNITY BAP	330	S SOUT PETERSBU		No	Wet Ponds	<Null>	<Null>	
Yes	Lieutenant	Lieutenant		2.08E+10	12030002	300	CRATER RD	TATUMJER	Leete Tire	TATUMJER	13800	FAIR PETERSBU		No	Bioretentic	<Null>	<Null>	
Yes	Blackwater	Blackwater		3.01E+10	39010022	2587	COUNTY DI	YOOBONG	Bong's Aut	YOOBONG	6287	WAT	PRINCE GE	No	Extended C	<Null>	<Null>	
Yes	Blackwater	Blackwater		3.01E+10	81040011	3140	CRATER RD	GANESH IN	Fas Mart	GANESH IN	1915	COLG RICHMOND		No	Extended C	<Null>	<Null>	
Yes	Blackwater	Blackwater		3.01E+10	59010801	3100	PINETREE C	PINETREE	Pinetree A	PINETREE	901	LEXING NEW YORK		No	Extended C	<Null>	<Null>	
Yes	Brickhouse	Appomattc		2.08E+10	10190017	<Null>	COMMERC	HSL3 LLC	High Street	116	E FRAN RICHMOND		No	Infiltration	<Null>	<Null>		
Yes	Brickhouse	Appomattc		2.08E+10	<Null>	<Null>			High Street				No	Infiltration	<Null>	<Null>		
Yes	Brickhouse	Appomattc		2.08E+10	10190016	400	COMMERC	HIGH STRE	High Street	116	E FRAN RICHMOND		No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater		3.01E+10	81050801	25	WAGNER R	OREILLY AL	O'Reilly Au	OREILLY AL	PO BOX 11		Springfield	No	Extended C	<Null>	<Null>	
Yes	Poor Creek	Harrison Cr		2.08E+10	4190005	51	GIBBONS A	CITY OF PE	Robert E Le	CITY OF PE	NULL	NULL	No	Bioretentic	<Null>	<Null>		
Yes	Blackwater	Unsegment		3.01E+10	87030806	3500	CRATER RD	WAL-MART	WalMart -	WAL-MART	PO BOX 80		Bentonville	No	Extended C	<Null>	<Null>	
No	Blackwater	Unsegment		3.01E+10	87030806	3500	CRATER RD	WAL-MART	Walmart S		PO BOX 80		Bentonville	No	Extended C	<Null>	<Null>	
Yes	Blackwater	Blackwater		3.01E+10	87030806	3500	CRATER RD	WAL-MART	WalMart -	WAL-MART	PO BOX 80		Bentonville	No	Wet Ponds	<Null>	<Null>	
Yes	Brickhouse	Appomattc		2.08E+10	51070004	1601	YOUNGS RI	ZION APOS	Zion Apost	ZION APOS	1601	YOUN PETERSBU		No	Extended C	<Null>	<Null>	
Yes	Blackwater	Blackwater		3.01E+10	88010808	3268	CRATER RD	F & A LLC	Go Cart Vill	F & A LLC	3268-3270		Petersburg	No	Wet Ponds	<Null>	<Null>	
Yes	Blackwater	Blackwater		3.01E+10	88010009	3330	CRATER RD	SOUTH CR	Martin's Fo	SOUTH CR	PO BOX 31		Richmond	No	Extended C	<Null>	<Null>	
Yes	Blackwater	Blackwater		3.01E+10	89050001	590	FLANK RD	IVY RIDGE	Visa Park	IVY RIDGE	26691	RICH BEDFORD	F	No	Wet Ponds	<Null>	<Null>	
No	Lieutenant	Blackwater		3.01E+10	98010001	100	BALLPARK	CITY OF PE	Petersburg	CITY OF PE	NULL	NULL	No	Wet Ponds	<Null>	<Null>		
No	Lieutenant	Blackwater		3.01E+10	98010001	100	BALLPARK	CITY OF PE	Petersburg	CITY OF PE	NULL	NULL	No	Wet Ponds	<Null>	<Null>		
Yes	Harrison Cr	Harrison Cr		2.08E+10	2010001	390	INDUSTRIA	CFS GROUF	Petersburg	WHITTLE R	13140	PAR CHESTER		No	Wet Ponds	<Null>	<Null>	
No	Lieutenant	Unsegment		2.08E+10	79110013	3101	HOMESTE	CITY OF PE	Vernon Joh	CITY OF PE	NULL	NULL	No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater		3.01E+10	81060805	3245	CRATER RD	PATELDAK	People's Ac	PEOPLES A	1400	WALT COLONIAL		No	Constructe	<Null>	<Null>	

Yes	Blackwater Unsegment	3.01E+10	82020802		100 POPLAR DR STARBURY Social Secu STARBURY PO BOX 13 RESEARCH No	Extended C <Null>	<Null>
Yes	Blackwater Unsegment	3.01E+10	82020813		259 MEDICAL P VIRGINIA S Virginia So VIRGINIA S 269 MEDIC PETERSBUF No	Manufactu Filterra Bio <Null>	
Yes	Blackwater Unsegment	3.01E+10	82020813		259 MEDICAL P VIRGINIA S Virginia So 269 MEDIC PETERSBUF No	Manufactu Filterra Bio <Null>	
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Yes	Rohoic Cre Rohoic Cre	2.08E+10	27030800		2275 WASHINGT EVERETT A Dollar Gen EVERETT A 31 BARN H WEST CHA No	Wet Ponds <Null>	<Null>
Yes	Harrison Cr Harrison Cr	2.08E+10	4050800	<Null>	WASHINGT 2131 EAST Dollar Gen 2131 EAST 83 SOUTH MORRISTO No	Extended C <Null>	<Null>
Yes	Blackwater Blackwater	3.01E+10	40030801		1200 HARRISON HARRISON Harrison Cr HARRISON 609 INDEPI CHESAPEA No	Wet Ponds <Null>	<Null>
Yes	Blackwater Unsegment	3.01E+10	87030809		200 MEDICAL P PETERSBUF HealthSout PETERSBUF 14400 MET OVERLAND No	Extended C <Null>	<Null>
Yes	Blackwater Unsegment	3.01E+10	87030809		200 MEDICAL P PETERSBUF HealthSout PETERSBUF 14400 MET OVERLAND No	Extended C <Null>	<Null>
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Yes	Brickhouse Appomattc	2.08E+10	45180005		1021 HALIFAX ST METROPOI Metropolit METROPOI 1021 HALIF PETERSBUF No	Extended C <Null>	<Null>
Yes	Brickhouse Appomattc	2.08E+10	22050802		100 WASHINGT CITY OF PE Petersburg CITY OF PE NULL NULL No	Bioretentic <Null>	<Null>
Yes	Lieutenant Lieutenant	2.08E+10	31030013		518 HALIFAX ST RESTORATI Claiborne S RESTORATI 444 HALIFA PETERSBUF No	Manufactu Filterra Bio <Null>	
Yes	Lieutenant Lieutenant	2.08E+10	31030013		518 HALIFAX ST RESTORATI Claiborne S 444 HALIFA PETERSBUF No	Manufactu Filterra Bio <Null>	
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Yes	Lieutenant Lieutenant	2.08E+10	31030013		518 HALIFAX ST RESTORATI Claiborne S 444 HALIFA PETERSBUF No	Extended C <Null>	<Null>
Yes	Riverfront Appomattc	2.08E+10	2010001		390 INDUSTRIA CFS GROUF CFS GROUF CFS GROUF 13140 PAR CHESTER No	Wet Ponds <Null>	<Null>
Yes	Harrison Cr Harrison Cr	2.08E+10	4010802	<Null>	INDUSTRIA WHITTLE R CFS GROUF CFS GROUF 2903 BOUL COLONIAL No	Extended C <Null>	<Null>
Yes	Rohoic Cre Rohoic Cre	2.08E+10	49020008		2456 DUPUY RD SHORESME Streetwiesl SHORESME 1381 DORS POWHATA No	Wet Ponds <Null>	<Null>
Yes	Lieutenant Lieutenant	2.08E+10	69030800	<Null>	RIDGEWOC KIRKPATRIK Ridgewood KIRKPATRIK 1976 DEFEI PETERSBUF No	Wet Ponds <Null>	<Null>
Yes	Blackwater Unsegment	3.01E+10	31030013	<Null>	RESTORATI West Park 444 HALIFA PETERSBUF No	Wet Ponds <Null>	<Null>
Yes	Blackwater Blackwater	3.01E+10	81050006		3105 CRATER RD PAR 3 DEVI Dollar Gen PAR 3 DEVI 2860-B NC ABERDEEN No	Extended C <Null>	<Null>
Yes	Fleet Stree Appomattc	2.08E+10	10140001		712 GROVE AVI OLD TOWN Hanson Gr OLD TOWN 927 HULL S RICHMONC No	Infiltration <Null>	<Null>
Yes	Brickhouse Appomattc	2.08E+10	30020001		555 SOUTH ST OWENS CO Henry Willi OWENS CO 15825 SHA ROCKVILLE No	Wet Ponds <Null>	<Null>
Yes	Blackwater Unsegment	3.01E+10	87030810		230 MEDICAL P PETERSBUF Medical Pa HHC POPLA 1976 DEFEI PETERSBUF No	Extended C <Null>	<Null>
Yes	Blackwater Unsegment	3.01E+10	87030811		235 MEDICAL P PETERSBUF Medical Pa 1976 DEFEI PETERSBUF No	Extended C <Null>	<Null>

Yes	Harrison Cr	Harrison Cr	2.08E+10	40020004	2455 COUNTY DI ROMA PLA	Richwine S	ROMA PLA	2447 COUN	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater	3.01E+10	39030002	2773 COUNTY DI BMCK LLC	Scott's Apa	BMCK LLC	PO BOX 37	MCKENNEY	No	Constructe	<Null>	<Null>		
Yes	Brickhouse	Appomattc	2.08E+10	50110814	1795 WEST LANE JOHNSONR	South Hills	JOHNSONR	1795 WEST	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Brickhouse	Appomattc	2.08E+10	22010001	201 WASHINGT PPL DEVEL	(Star Tobac	STAR LOFT	PO BOX 88	PETERSBUF	No	Bioretentic	<Null>	<Null>		
Yes	Brickhouse	Appomattc	2.08E+10	22010001	201 WASHINGT PPL DEVEL	(Star Tobac		PO BOX 88	PETERSBUF	No	Grass Chan	<Null>	<Null>		
Yes	Brickhouse	Appomattc	2.08E+10	22010001	201 WASHINGT PPL DEVEL	(Star Tobac		PO BOX 88	PETERSBUF	No	Bioretentic	<Null>	<Null>		
Yes	Blackwater	Unsegment	3.01E+10	83020001	500 OLD WAGN BERKELEY E	Berkeley Es		PO BOX 41	ST STEPHE	No	Wet Ponds	<Null>	<Null>		
Yes	Brickhouse	Appomattc	2.08E+10	23370800	550 FARMER ST THIRD BAP	Third Bapti	THIRD BAP	630 HALIFA	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Blackwater	Unsegment	3.01E+10	83010804	575 OLD WAGN CENTRAL P.	Southside (3029 WRIG	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Blackwater	Unsegment	3.01E+10	82020005	350 POPLAR DR HHC POPLA	Poplar Spri		14400 MET	OVERLAND	No	Bioretentic	<Null>	<Null>		
Yes	Brickhouse	Unsegment	2.08E+10	47150803	<Null>	BRICKHOU	MAGNOLIA	<Null>	ASSOCIATI	(4435 WATE	GLEN ALLEI	No	Wet Ponds	<Null>	<Null>
Yes	Blackwater	Blackwater	3.01E+10	88010816	201 CRATER CIF ADDISON A	Addison Cr.	VIRGINIA H	PO BOX 51.	RICHMONC	No	Extended C	<Null>	<Null>		
Yes	Poor Creek	Poor Creek	2.08E+10	33150814	781 KING AVE	KING AVEN	<Null>	601 SOUTH	COLONIAL	No	Extended C	<Null>	<Null>		
Yes	Harrison Cr	Harrison Cr	2.08E+10	35050001	2301 COUNTY DI ROCK CHUF	Rock Churc	C/O VIRGIN	2301 COUN	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Harrison Cr	Harrison Cr	2.08E+10	35050001	2301 COUNTY DI ROCK CHUF	Rock Churc	C/O VIRGIN	2301 COUN	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Lieutenant	Unsegment	2.08E+10	68150001	1800 JOHNSON F CHURCH O	Church of J	LATTER DA	50 E. NORT	SALT LAKE	No	Extended C	<Null>	<Null>		
Yes	Lieutenant	Unsegment	2.08E+10	53010001	1608 JOHNSON FTILDEN FU	<Null>	<Null>	11200 ROC	ROCKVILLE	No	Wet Ponds	<Null>	<Null>		
Yes	Harrison Cr	Harrison Cr	2.08E+10	39010004	2463 COUNTY DI THE PEPPE	AAAA Self	€	612 JACK R	VIRGINIA B	No	Extended C	<Null>	<Null>		
Yes	Brickhouse	Unsegment	2.08E+10	23170001	512 W WASHIN THE GOVE	Governor's	APPOMATC	512 W WA	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Brickhouse	Unsegment	2.08E+10	23170001	512 W WASHIN THE GOVE	Governor's	APPOMATC	512 W WA	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater	3.01E+10	59010801	3100 PINETREE C	PINETREE A	Pinetree A	<Null>	901 LEXING	NEW YORK	No	Extended C	<Null>	<Null>	
Yes	Brickhouse	Unsegment	2.08E+10	23170001	512 W WASHIN THE GOVE	Governor's	APPOMATC	512 W WA	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater	3.01E+10	59010801	3100 PINETREE C	PINETREE A	Pinetree A	<Null>	901 LEXING	NEW YORK	No	Extended C	<Null>	<Null>	
Yes	Brickhouse	Unsegment	2.08E+10	23300004	123 PINE ST	WAS HOLD	<Null>	<Null>	12103 SHO	RICHMONC	No	UNK	<Null>	<Null>	
Yes	Blackwater	Unsegment	3.01E+10	1.02E+08	3811 CORPORAT P & P ASSO	<Null>	U S GENER	PO BOX 18	PETERSBUF	No	Wet Ponds	<Null>	<Null>		
Yes	Brickhouse	Unsegment	2.08E+10	29170024	309 FAIRGROU I CITY OF PE	<Null>	<Null>	135 N. UNI	PETERSBUF	No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater	3.01E+10	88010816	201 CRATER CIF ADDISON A	Addison Cr.	VIRGINIA H	PO BOX 51.	RICHMONC	No	Extended C	<Null>	<Null>		
Yes	Lieutenant	Lieutenant	2.08E+10	22120800	302 E WYTHE S	WYTHE RO	<Null>	P.R.H.A.	PO BOX 31	PETERSBUF	No	Extended C	<Null>	<Null>	
Yes	Blackwater	Blackwater	3.01E+10	82020804	321 POPLAR DR ROSLYN FA	<Null>		PO BOX 72	COLONIAL	No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater	3.01E+10	81050806	200 CAVALIER C	CAVALIER /	Cavalier 1	<Null>	474 WAND	MT PLEASA	No	Wet Ponds	<Null>	<Null>	
Yes	Blackwater	Blackwater	3.01E+10	81050803	50 CAVALIER C	CAVALIER /	Cavalier 2	<Null>	474 WAND	MT PLEASA	No	Wet Ponds	<Null>	<Null>	
Yes	West Stree	Appomattc	2.08E+10	24150011	1115 COMMERC COMMERC	1115 Comr	<Null>	207 BERKS	RICHMONC	No	Extended C	<Null>	<Null>		
Yes	Brickhouse	Unsegment	2.08E+10	30160009	742 HALIFAX ST OK VENTU	Halifax Rd I		5306 COPP	CHESTERFI	No	Extended C	<Null>	<Null>		
Yes	Blackwater	Blackwater	3.01E+10	59010005	3061 PINETREE C	HEIGHT PR	Liberty Poi		1004 STAPI	GLEN ALLEI	No	UNK	<Null>	<Null>	

Yes	Lieutenant	Lieutenant	2.08E+10	11190012	120 N MADISON	YOUNG MEYMCA	PETG	120 N MAC PETERSBURG	No	Extended C	<Null>	<Null>			
Yes	Brickhouse	Unsegmented	2.08E+10	46030003	1301 YOUNG	RIGREATER F	Greater Fair	EPISCOPAL	1301 YOUNG PETERSBURG	No	Extended C	<Null>	<Null>		
Yes	Lieutenant	Lieutenant	2.08E+10	22330001	330 HALIFAX ST	TABERNACLE	<Null>	418 HALIFAX PETERSBURG	No	Manufacturing	Filtration	Bio <Null>			
Yes	Battersea	Appomattox	2.08E+10	24150021	1243 COMMERC	MCGUIGAN	Velocitel	<Null>	13413 CHESTERFIELD	No	UNK	<Null>	<Null>		
Yes	Blackwater	Blackwater	3.01E+10	82010001	301 WAGNER R	ROSLYN FA	Brassfield F	PO BOX 72	COLONIAL	No	Wet Ponds	<Null>	<Null>		
Yes	Fleet Street	Appomattox	2.08E+10	<Null>	<Null>	GROVE AVENUE	CITY OF PETERSBURG	Canal Street	<Null>	135 N. UNI	PETERSBURG	Yes	Bioretention	<Null>	<Null>
Yes	Blackwater	Blackwater	3.01E+10	82020005	350 POPLAR DR	HHC POPLAR	Poplar Springs	PROPERTY	14400 MET OVERLAND	No	Manufacturing	Filtration	Bio <Null>		
Yes	Blackwater	Blackwater	3.01E+10	88010001	200 Addison W	ADDISON A	Addison Cr.	<Null>	PO BOX 51	RICHMOND	No	Wet Ponds	<Null>	<Null>	
Yes	Blackwater	Blackwater	3.01E+10	64020002	50 CAVALIER I	CAVALIER I	Cavalier 2	<Null>	474 WAND MT PLEASANT	No	Vegetated	<Null>	<Null>		
Yes	Blackwater	Blackwater	3.01E+10	64020002	50 CAVALIER I	CAVALIER I	Cavalier 2	<Null>	474 WAND MT PLEASANT	No	Manufacturing	Filtration	Bio <Null>		
Yes	Poor Creek	Poor Creek	2.08E+10	41100006	104 SLAGLE AV	CITY OF PETERSBURG	James River	<Null>	211 ROCKE	RICHMOND	Yes	Manufacturing	The Cascades	<Null>	
Yes	Lieutenant	Lieutenant	2.08E+10	51070805	1847 Boydton Pl	<Null>	Family Doll	<Null>	<Null>	<Null>	No	Infiltration	<Null>	<Null>	
Yes	Lieutenant	Lieutenant	2.08E+10	51070805	1847 Boydton Pl	<Null>	Family Doll	<Null>	<Null>	<Null>	No	Infiltration	<Null>	<Null>	
Yes	Lieutenant	Lieutenant	2.08E+10	51070805	1847 Boydton Pl	<Null>	Family Doll	<Null>	<Null>	<Null>	No	Infiltration	<Null>	<Null>	
Yes	Poor Creek	Harrison Cr	2.08E+10	41900005	51 GIBBONS A	CITY OF PETERSBURG	Lakemont I	CITY OF PETERSBURG	<Null>	<Null>	No	Permeable	<Null>	<Null>	



APPENDIX F

**Phase II MS4 General Permit
Program Plan Update**

**Stormwater Pollution Prevention
Plan (SWPPP) Implementation**



May 2024

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TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.



Table of Contents

SECTION 1 INTRODUCTION	1
SECTION 2 RESOURCES	1
SECTION 3 METHODOLOGY	2
SECTION 4 POTENTIAL CITY SITES REQUIRING A SWPPP	3
SECTION 5 SITE INVESTIGATIONS	12
SECTION 6 STORMWATER POLLUTION PREVENTION PLAN COMPONENTS.....	12



Section 1 Introduction

Per the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 Permit) requirements, the City of Petersburg is required to update their MS4 Program Plan in accordance with the schedule outlined in Table 1. Updates are required for each of the six (6) minimum control measures including Minimum Control Measure (MCM) 6 – Pollution Prevention/Good House Keeping for Municipal Operations. MCM 6 requires the City to identify City-owned lands requiring stormwater pollution prevention plans and/or nutrient management plans based on the MS4 Permit requirements and implement a schedule for both. MCM 6 also requires the City to write procedures designed to reduce or prevent pollutant discharges, and to develop a training schedule and program for employees.

The scope of this analysis included a review of all City owned property using the City's GIS system, assessor data, and aerial photography to identify all potential high priority facilities with a high potential for pollutant discharge that will require a stormwater pollution prevention plan (SWPPP), as prescribed by the MS4 Permit. An implementation schedule was then developed for each property requiring a SWPPP based on the MS4 Permit requirements.

Section 2 Resources

The majority of the analysis was completed by desktop using resources provided by the City of Petersburg and other publically available data. Below is a compilation of resources used to complete the SWPPP analysis.

1. Data from the City of Petersburg
 - a. "Parcels" Shapefile
 - b. "VPDES_Parcels" Shapefile
 - c. List of facilities (City owned and private) maintaining their own VPDES General Permit
 - d. GIS website, including: property owner information, parcel boundaries, aerial photography, *etc.*
 - e. GIS data layers, including: City VPDES facilities, City owned parcels, outfalls, RPA limits, storm structures, pipes, manholes, and contours.
2. Other data
 - a. Publically available current aerial photography (Bing, Google)
 - b. The General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (VAR04), effective 2023-2028.



Section 3 Methodology

In order to identify properties that will need a SWPPP, high priority facilities with a high potential for pollutant discharge had to be identified. High priority facilities are defined as follows:

- i. composting facilities,
- ii. equipment storage and maintenance facilities,
- iii. materials storage yards,
- iv. pesticide storage facilities,
- v. public works yards,
- vi. recycling facilities,
- vii. salt storage facilities,
- viii. solid waste handling and transfer facilities, and
- ix. vehicle storage and maintenance yards.

Likewise, the municipal facilities with a high potential for pollutant discharge are defined in Part 1.E.6.c as, "those not covered under a separate VPDES permit and which any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt or runoff:

- (a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater;
- (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks;
- (c) Material handling equipment (except adequately maintained vehicles);
- (d) Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt);
- (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants);
- (f) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers;
- (g) Waste material except waste in covered, non-leaking containers (e.g., dumpsters);
- (h) Application or disposal of process wastewater (unless otherwise permitted); or
- (i) Particulate matter or visible deposits of residuals from roof stacks, vents or both not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater runoff."



Using the resources mentioned in Section 2, the following steps were completed to identify all City properties requiring a SWPPP based on the MS4 Permit requirements.

1. A preliminary list of potential City high priority sites was used to begin the analysis. These sites included all City-owned properties.
2. The City website was reviewed to ensure all City properties were included in the analysis.
3. All properties maintaining their own VPDES Permit were extracted and preserved in a separate tab.
4. Each property was then analyzed using City of Petersburg GIS, BING maps, and Google maps. Based on the images from these three sources, high priority facilities (HPF's) were identified. The process was completed for every property with the exception of properties maintaining their own VPDES permits to compile a thorough draft list of properties requiring SWPPPs.
5. After desktop analysis and communication with the City, parcels that were determined not to be high priority facilities were eliminated from the list of properties potentially requiring SWPPPs.
6. Field visits were then conducted for the remaining properties that were identified as potentially requiring SWPPPs.
7. In depth field visits and inspections including photographs were taken for the sites.
8. Following initial site investigation, sites that were determined not to be HPFs after field visits were eliminated from further investigation.
9. Properties that during field visits, were determined to be HPFs, were characterized and inspected thoroughly.
10. SWPPPs were then prepared for all of the HPFs identified and identified as requiring SWPPPs during field investigations.
11. The completed SWPPPs for each facility were then submitted to the City for implementation.

Section 4 Potential City Sites Requiring a SWPPP

Following the process described in Section 3, twenty nine (29) properties were identified as having potential for requiring a SWPPP based on the MS4 Permit requirements. For the majority of these identified properties, the need for a SWPPP was eliminated. **Table 4.1** lists the properties, the potential designation of high priority facility for each property, and the potential activities resulting in a high potential pollutant discharge for each property.



CITY OF PETERSBURG, VIRGINIA
SWPPP IMPLEMENTATION



Table 4.1 – City Properties with Potential for Requiring a SWPPP

Priority	Tax Map Parcel #	Within Regulated MS4 Boundary (Y/N)	Site Name	High Priority Facilities (as defined in Section II B 6.b.(1))	High Potential for Discharge (as defined in Section II B 6.b.(2))	Owner
1	030-220001	Y	800 Arlington St., Street Operations Yard	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities, (v) public works yards, (vii) salt storage facilities, (ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (c) Material handling equipment (except adequately maintained vehicles), (d) Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt), (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants), (f) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers, (g) waste material except waste in covered, non-leaking containers (e.g., dumpsters)	CITY OF PETERSBURG, VIRGINIA
2	012-340006	Y	820 Old Wythe St., Public Schools Operation Command Center	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (c) Material handling equipment (except adequately maintained vehicles), (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants), (f) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers, (g) waste material except waste in covered, non-leaking containers (e.g., dumpsters)	CITY OF PETERSBURG, VIRGINIA



CITY OF PETERSBURG, VIRGINIA
SWPPP IMPLEMENTATION



Priority	Tax Map Parcel #	Within Regulated MS4 Boundary (Y/N)	Site Name	High Priority Facilities (as defined in Section II B 6.b.(1))	High Potential for Discharge (as defined in Section II B 6.b.(2))	Owner
3	029-170024	Y	309 Fairgrounds Rd., Petersburg Transit Maintenance Facility	(ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (c) Material handling equipment (except adequately maintained vehicles), (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants), (g) waste material except waste in covered, non-leaking containers (e.g., dumpsters)	CITY OF PETERSBURG, VIRGINIA
4	023-180010	Y	35 Pine St., City of Petersburg Public Schools Maintenance Facility	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (c) Material handling equipment (except adequately maintained vehicles), (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants), (g) waste material except waste in covered, non-leaking containers (e.g., dumpsters)	CITY OF PETERSBURG, VIRGINIA
5	079-030027	Y	3100 Homestead Dr., Dogwood Trace Golf Course	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities, (ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (d) Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt), (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants), (f) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	CITY OF PETERSBURG, VIRGINIA



CITY OF PETERSBURG, VIRGINIA
SWPPP IMPLEMENTATION



Priority	Tax Map Parcel #	Within Regulated MS4 Boundary (Y/N)	Site Name	High Priority Facilities (as defined in Section II B 6.b.(1))	High Potential for Discharge (as defined in Section II B 6.b.(2))	Owner
6	029-170023	Y	1216 Farmer St., Farmer St. Municipal Pool	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (d) Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt), (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants), (f) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	CITY OF PETERSBURG, VIRGINIA
7	079-030028	N	3108 Homestead Dr., Battlefield Park Swimming Club	(iii) materials storage yards, (ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (c) Material handling equipment (except adequately maintained vehicles), (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants), (f) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	BATTLEFIELD PARK SWIMMING CLUB
8	022-050802	Y	100 W. Washington St., Petersburg Area Transit Station	(ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater	CITY OF PETERSBURG, VIRGINIA
9	098-010001	N	100 Ballpark Rd., Petersburg Sports Complex	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA



CITY OF PETERSBURG, VIRGINIA
SWPPP IMPLEMENTATION



Priority	Tax Map Parcel #	Within Regulated MS4 Boundary (Y/N)	Site Name	High Priority Facilities (as defined in Section II B 6.b.(1))	High Potential for Discharge (as defined in Section II B 6.b.(2))	Owner
10	061-010001	N	1151 Fort Bross Dr., Petersburg Fire Training Center	(ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater,	CITY OF PETERSBURG, VIRGINIA
11	022-290001	Y	Central Park	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
12	032-010022	Y	Jefferson St. Park	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
13	052-130004	Y	Lee Memorial Park	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
14	009-040008	Y	McKenzie St. Park	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
15	029-170013	Y	West End Park	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA



CITY OF PETERSBURG, VIRGINIA
SWPPP IMPLEMENTATION



Priority	Tax Map Parcel #	Within Regulated MS4 Boundary (Y/N)	Site Name	High Priority Facilities (as defined in Section II B 6.b.(1))	High Potential for Discharge (as defined in Section II B 6.b.(2))	Owner
16	091-050001	N	3101 Johnson Rd., Petersburg High School	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
17	079-110013	N	3101 Homestead Rd., Vernon Johns Junior High School	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
18	030-130002	Y	725 Wesley St., Peabody Middle School	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
19	055-220001	Y	300 W. South Blvd., Walnut Hill Elementary School	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
20	046-080026	Y	1100 Patterson St., Westview Early Childhood Education Center	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
21	052-090002	Y	1450 Talley Ave., A.P. Hill Elementary School	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA



CITY OF PETERSBURG, VIRGINIA
SWPPP IMPLEMENTATION



Priority	Tax Map Parcel #	Within Regulated MS4 Boundary (Y/N)	Site Name	High Priority Facilities (as defined in Section II B 6.b.(1))	High Potential for Discharge (as defined in Section II B 6.b.(2))	Owner
22	047-140008	Y	100 Pleasants Ln., J.E.B. Stuart Elementary School	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
23	012-090001	Y	816 E. Bank St., Blandford Academy	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
24	004-190005	Y	51 Gibbons Ave., Lakemont Elementary School	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
25	068-080012	N	1937 Johnson Rd., Parks & Leisure Services Facility	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants)	CITY OF PETERSBURG, VIRGINIA
26	022-040004	Y	50 S. Market St., PFD Station No. 2	(ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater,	CITY OF PETERSBURG, VIRGINIA
27	029-170901	Y	1318 Farmer St., PFD Station No. 3	(ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater,	CITY OF PETERSBURG, VIRGINIA
28	055-190016	Y	1907 Sycamore St., PFD Station No. 4	(ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater,	CITY OF PETERSBURG, VIRGINIA
29	091-050002	N	3321 Johnson Rd., PFD Station No. 5	(ix) vehicle storage and maintenance yards	(a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater,	CITY OF PETERSBURG, VIRGINIA



CITY OF PETERSBURG, VIRGINIA
SWPPP IMPLEMENTATION



Priority	Tax Map Parcel #	Within Regulated MS4 Boundary (Y/N)	Site Name	High Priority Facilities (as defined in Section II B 6.b.(1))	High Potential for Discharge (as defined in Section II B 6.b.(2))	Owner
30	005-090005	Y	1340 E Washington St., City of Petersburg Office of Development and Operations	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (v) public works yards, (vii) salt storage facilities, (viii) solid waste handling and transfer facilities, and (ix) vehicle storage and maintenance yards	(a) Areas where residuals from using storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (c) Material handling equipment (expect adequately maintained vehicles, (d) Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt), (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants), (f) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	CITY OF PETERSBURG, VIRGINIA
31	021-070011	Y	424 St Andrews St., Public Utilities Yard	(ii) equipment storage and maintenance facilities, (iii) materials storage yards, (v) public works yards, (vii) salt storage facilities, (viii) solid waste handling and transfer facilities, and (ix) vehicle storage and maintenance yards	(a) Areas where residuals from using storing or cleaning machinery or equipment remain and are exposed to stormwater, (b) Materials or residuals on the ground or in stormwater inlets from spills or leaks, (c) Material handling equipment (expect adequately maintained vehicles, (d) Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt), (e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants), (f) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	CITY OF PETERSBURG, VIRGINIA



Section 5 Site Investigations

Prior to recommending development of a SWPPP for each of the thirty-one (31) potential properties identified previously in Section 4, the City's Consultant conducted desktop analysis and/or site investigations of each of the potential facilities to confirm or discount the presence of activities and associated high potential for discharge of pollutants. Twenty-five (25) sites were eliminated as a result of the thorough desktop analysis and site investigation. Upon visiting City Parks and school athletic fields and speaking with City staff, it was determined that no materials and equipment are kept at these locations that would dictate the necessity for development of a SWPPP. Similar findings were observed for the Fire Department houses and schools. City staff also indicated that the Public Utility Yard at 424 Saint Andrews St has been retired and no active work occurs at this site. The result of the site investigations and desktop analysis is that the development and implementation of SWPPPs is necessary for six sites: the Street Operations Facility, Public Schools Operations Command Center, the Transit Maintenance Facility, the Public Schools Maintenance Facility, Dogwood Trace Golf Course, and City of Petersburg Office of Development and Operations.

Section 6 Stormwater Pollution Prevention Plan Components

A Stormwater Pollution Prevention Plan (SWPPP) is a document that is prepared in accordance with good engineering practices and that identifies potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges. Per the MS4 Permit, all high priority facilities with a high potential for pollutant discharge require a SWPPP with the exception of facilities covered under a separate VPDES permit. SWPPPs are to be kept at each facility and updated as necessary, including evaluations and modification following discharges, releases, and/or spills. Each SWPPP shall include the following:

- a. A site description that includes a site map identifying all outfalls, direction of flows, existing source controls, and receiving water bodies;
- b. A discussion and checklist of potential pollutants and pollutant sources;
- c. A discussion of all potential non-stormwater discharges;
- d. Written procedures designed to reduce and prevent pollutant discharge;
- e. A description of the applicable training as required in Section II B 6.d;
- f. Procedures to conduct an annual comprehensive site compliance evaluation;
- g. An inspection and maintenance schedule for site specific source controls, including provisions for recording the inspection dates, associated findings, and follow-up actions;
- h. Information for each discharge, release, or spill, including the following information: date of incident; material discharged, released, or spilled; and quantity discharged, released or spilled.

A template SWPPP was prepared for the City of Petersburg to provide consistency in formatting across facilities and departments. Standard Operating Procedures were developed for City-wide daily good housekeeping procedures for incorporation into the template SWPPP. Following development of the template format, individual SWPPPs were prepared for the sites identified previously in Section 5.

**Phase II MS4 General Permit
Program Plan Update**

**Nutrient Management Plan (NMP)
Implementation Schedule**



OCTOBER 2015

Prepared By:
Timmons Group
1001 Boulders Parkway, Suite 300
Richmond, VA 23225



TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.



Table of Contents

SECTION 1 INTRODUCTION.....2

SECTION 2 RESOURCES.....2

SECTION 3 METHODOLOGY2

SECTION 4 POTENTIAL CITY-OWNED PROPERTIES REQUIRING A NMP.....3

SECTION 5 PROPOSED NMP IMPLEMENTATION SCHEDULE.....6



Section 1 Introduction

Per the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 Permit) requirements, minimum control measure (MCM) 6 states that the City of Petersburg is required to identify City property requiring nutrient management plans (NMPs).

The scope of this analysis included a review of all City owned property using the most current City GIS data and aerial photography to identify where nutrients may be applied to one (1) contiguous acre or more of land and will require a nutrient management plan. Parcels that were missing ownership records and areas in the ROW with greater than one contiguous acres of managed turf were also included in this analysis.

Section 2 Resources

The majority of the analysis was completed by desktop using resources provided by the City of Petersburg and other publically available data. Below is a compilation of resources used to complete the SWPPP analysis.

1. Data from the City of Petersburg
 - a. "Parcels" Shapefile
 - b. "Pervious" Shapefile
 - c. GIS website, including: property owner information, parcel boundaries, aerial photography, *etc.*
2. Other data
 - a. Publically available current aerial photography (Bing, Google)
 - b. The General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (VAR04), effective 2013-2018.

Section 3 Methodology

In order to identify properties that will need a nutrient management plan, properties with more than one contiguous acre of managed turf had to be identified. Using the resources identified in Section 2, the following steps were completed to identify all City properties that may require a nutrient management plan based on the MS4 Permit requirements.

1. The City "Parcels" and "Pervious" GIS Shapefiles were imported into ArcGIS.
2. The "Parcels" Shapefile records were sorted by owner and all parcels that were not owned by the City, in the ROW, or missing ownership information were eliminated.
3. An intersection was performed with the "Parcels" and "Pervious" Shapefiles to generate a "City-owned Pervious" Shapefile that included all City-owned, ROW, or unidentified parcels with potentially managed turf.
4. The "City-owned Pervious" Shapefile records were sorted by area (in acres) and all parcels that were less than one acre were eliminated.



5. The remaining parcels were then investigated one-by-one in ArcGIS using the area tool to determine if the pervious sites greater than one acre were contiguous.
6. Any parcels that were determined to have pervious areas that were not contiguous and at least an acre were eliminated.
7. The remaining parcels were then investigated using the most current publically available aerial imagery from Bing and Google to determine if the pervious land cover had changed.
8. The parcels that were identified as City-owned, in the ROW, or missing ownership information with greater than one contiguous acre of pervious were then populated into a draft Excel spreadsheet (Table 4.1).
9. The draft list was then reviewed with the most up to date aerial imagery and sites that were determined to not be mowed or maintained regularly (*i.e.*, areas under transmission lines) were eliminated (Table 4.2).
10. Upon review with the City and once all properties requiring nutrient management plans were identified along with the responsible party/parties, the Excel spreadsheet was finalized and the properties prioritized based upon contiguous acreage (largest contiguous acreage being the highest priority).

Section 4 Potential City-owned Properties Requiring a NMP

Following the process mentioned in Section 3, 80 properties were identified as potentially requiring a nutrient management plan based on the MS4 Permit requirements. The Table 4.1 presented below lists the potential properties identified that may have been required to develop a nutrient management plan.

Table 4.1 – City Properties with More than One Contiguous Acre of Pervious Surface

Confirmed City Parcel	Parcel #	Address	Description	Acreage
Y	97010004	1555 Flank Rd.	Open Space	18.65
Y	96010001	3645 Halifax Rd.	Open Space	14.03
Y	96010001	3645 Halifax Rd.	Forested Strip w/ <1 ac. Managed Turf	1.97
Y	96010001	3645 Halifax Rd.	Open Space Near Industrial Area	27.93
Y	85030002	Bradford Lane	Berkley Manor Park	10.93
Y	79110013	3101 Homestead Rd.	Vernon Johns Junior High School	6.91
Y	91050001	3101 Johnson Rd.	Petersburg High School	29.84
Y	78040003	3000 Homestead Rd.	Dogwood Trace Golf Course	40.42
Y	76030800	2233 Halifax Rd.	Open Space	34.82
Y	61010001	1151 Fort Bross Dr.	Petersburg Fire & Emergency Services	1.84
Y	68120001	1214 Johnson Ave.	Baseball Field East of Wilcox Lake	4.07
Y	65100042	435 Blackwater Dr.	Baseball Field	5.23



CITY OF PETERSBURG, VIRGINIA
NMP IMPLEMENTATION SCHEDULE



Confirmed City Parcel	Parcel #	Address	Description	Acreage
Y	55220001	300 South Blvd. W.	Walnut Hill Elementary School	6.63
Y	52090002	1450 Talley Ave.	AP Hill Elementary School	7.20
Y	45240013	1237 Halifax St.	AP Hill Community Center	2.18
Y	43030001	1511 Monticello St.	Open Space Near Water Tower	3.96
Y	46080026	1100 Patterson St.	Westview Early Childhood Education Center	5.29
Y	47140008	100 Pleasants Ln.	JEB Stuart Elementary School	5.43
Y	44080006	1000 Diamond St.	Virginia Avenue School	2.91
Y	43010001	1017 Sycamore St.	Parking Lot	3.28
Y	30130005	605 Halifax St.	Peabody Middle School	2.48
Y	30130002	725 Wesley St.	Peabody Middle School	5.05
Y	27010010	2351 Washington St. W.	Open Space Under Transmission Lines	1.12
Y	29170023	1216 Farmer St.	Farmer Street Pool	4.62
Y	31050038	115 Jolly Alley	Forested Space	1.06
Y	26010001	Railroad Tracks @ Rohoic Creek	Open Space Under Transmission Lines Adjacent to Appomattox	1.76
Y	28010001	1701 Dock St.	Open Space <1 ac.	1.01
Y	21070011	424 St. Andrew St.	Scattered Parcels <1 ac. Of Contiguous Managed Turf	1.73
Y	21180006	111 Rochelle Ln.	Cemetery	1.08
Y	9040008	951 McKenzie St.	McKenzie Street Park	4.02
Y	20010001	319 Crater Rd. S.	Blandford Cemetery	84.44
Y	10010007	308 Canal St.	Open Space	2.40
Y	12340006	820 Old Wythe St.	School Bus Parking Lot	2.58
Y	10110026	339 Low St.	Open Space <1 ac.	1.05
Y	11010802	Old St. W. @ N. Market St.	Open Space Adjacent to Railroad Tracks	1.26
Y	12090001	816 Bank St. E.	Blandford Academy	2.54
Y	11010002	37 River St.	Open Space Adjacent to Railroad Tracks	2.21
Y	11020006	275 River St.	Open Space South of Railroad Tracks	3.33
Y	11010801	River St. @ 2nd St. Bridge	Open Space Between Railroad Tracks	1.29
Y	12010001	433 River St.	Forested Space Adjacent to I-95	2.04
Y	7080001	150 Spony St.	Open Space Adjacent to Railroad Tracks and Appomattox River	4.79
Y	7020001	301 Rolfe St.	Open Space <1 ac.	1.01
Y	27010012	2120 Dock St.	Open Space <1 ac.	1.55
Y	29170024	1320 Farmer St.	Open Space	5.38
Y	31300002	801 Adams St.	Open Space	10.78
Y	32080001	909 Sycamore St. S.	Cameron Field	9.34
Y	34020002	950 Winfield Rd.	Open Space	1.13



CITY OF PETERSBURG, VIRGINIA
NMP IMPLEMENTATION SCHEDULE



Confirmed City Parcel	Parcel #	Address	Description	Acreage
Y	22290001	243 Sycamore St. S.	Central Park	10.62
Y	21170009	334 Crater Rd. S.	People Memorial Cemetery	8.25
Y	9010005	South St. N. @ Fleet St.	Open Space <1 ac.	2.18
Y	10040003	501 Piamingo Alley	Forested Space Adjacent to Appomattox River	1.42
Y	4190005	51 Gibbons Ave.	Lee Elementary School	10.49
Y	41040001	2140 Anderson St.	Open Space	2.41
Y	52130004	1616 Defense Rd.	Lee Memorial Park	26.91
Y	52130004	1616 Defense Rd.	Forested Space	1.39
Y	98010001	100 Ballpark Rd.	Petersburg Sports Complex	53.39
Y	79030027	3100 Homestead Dr.	Dogwood Trace Golf Course	50.36
Y	52130004	1616 Defense Rd.	Open Space Under Transmission Line	11.23
Y	29170013	522 West St. S.	West End Park	8.27
Y	76030800	2233 Halifax Rd.	Open Space Under Transmission Lines	19.51
Y	76030800	2233 Halifax Rd.	Open Space Between Railroad Tracks and Halifax Rd.	2.75
N	N/A	N/A	Under Transmission Lines SE of Brenwood Rd.	3.07
N	N/A	N/A	Open Space West of Halifax Rd. @ I-85	16.55
N	N/A	N/A	Open Space N/ of Petersburg Country Club, Adjacent to Flank Rd.	2.31
N	N/A	N/A	Open Space E. of Railroad @ Intersection of Flank Rd. and Halifax Rd.	6.04
N	N/A	N/A	NW of Intersection of Flank Rd. and Johnson Rd.	25.58
N	N/A	N/A	Under Transmission Lines Between Squirrel Level Rd. and Vaughn Rd.	8.55
N	N/A	N/A	Under Transmission Lines E. of Rohoic Creek, N. of Boydton Plank Rd.	1.94
N	N/A	N/A	Transmission Station at Western Limit of City Adjacent to Appomattox River	19.64
N	N/A	N/A	Open Space Between Budd Rd. and Tynes Rd.	9.39
N	N/A	N/A	Under Transmission Lines @ Intersection of Boydton Plank Rd. and Tynes Rd.	8.95
N	N/A	N/A	Open Space W. of Flank Rd. and Johnson Rd.	22.37
N	N/A	N/A	Open Space Between N. Dunlop St. and N. West St. along Upper Appomattox St.	1.84
N	N/A	N/A	Open Space, The Crater @ 460 and Siege Rd.	138.52
N	N/A	N/A	Unnamed Dogwood Trace Golf Course Parcel	15.27
N	N/A	N/A	Under Transmission Lines N. of Dogwood Trace Golf Course W. of Johnson Rd.	1.52
N	N/A	N/A	Open Spaces Within City of Petersburg ROW	1848.67
N	N/A	N/A	Open Space Along Fort Bross Dr. E. of Railroad Tracks	5.93
N	N/A	N/A	Under Transmission Lines Along N. Normandy Dr., N. of Wagner Rd.	10.49



CITY OF PETERSBURG, VIRGINIA
NMP IMPLEMENTATION SCHEDULE



Confirmed City Parcel	Parcel #	Address	Description	Acreage
N	N/A	N/A	Under Transmission Lines Along Quality Dr. Adjacent to Transmission Station	1.16

Following development of Table 4.1, the draft list was then thoroughly reviewed using desktop analysis and review of aerial imagery and sites that were determined to be not mowed or maintained regularly were eliminated as presented in Table 4.2.

Table 4.2 –City Properties with More than One Acre of Contiguous Pervious Surface that May be Maintained as Managed Turf

Permit Year	Parcel #	Address	Description	Acreage
2015	21180006	111 Rochelle Ln.	Cemetery	1.08
2015	21170009	334 Crater Rd. S.	People Memorial Cemetery	8.25
2015	79110013	3101 Homestead Rd.	Vernon Johns Junior High School	6.91
2015	91050001	3101 Johnson Rd.	Petersburg High School	29.84
2015	55220001	300 South Blvd. W.	Walnut Hill Elementary School	6.63
2015	52090002	1450 Talley Ave.	AP Hill Elementary School	7.20
2015	46080026	1100 Patterson St.	Westview Early Childhood Education Center	5.29
2015	47140008	100 Pleasants Ln.	JEB Stuart Elementary School	5.43
2015	44080006	1000 Diamond St.	Virginia Avenue School	2.91
2015	30130005	605 Halifax St.	Peabody Middle School	2.48
2015	30130002	725 Wesley St.	Peabody Middle School	5.05
2015	12090001	816 Bank St. E.	Blandford Academy	2.54
2015	4190005	51 Gibbons Ave.	Lee Elementary School	10.49
2015	85030002	Bradford Lane	Berkley Manor Park	10.93
2015	68120001	1214 Johnson Ave.	Baseball Field East of Wilcox Lake	4.07
2015	65100042	435 Blackwater Dr.	Baseball Field	5.23
2015	9040008	951 McKenzie St.	McKenzie Street Park	4.02
2015	32080001	909 Sycamore St. S.	Cameron Field	9.34
2015	22290001	243 Sycamore St. S.	Central Park	10.62
2015	52130004	1616 Defense Rd.	Lee Memorial Park	26.91
2015	29170013	522 West St. S.	West End Park	8.27
2016	97010004	1555 Flank Rd.	Open Space	18.65
2016	78040003	3000 Homestead Rd.	Dogwood Trace Golf Course	40.42
2016	76030800	2233 Halifax Rd.	Open Space	34.82
2016	61010001	1151 Fort Bross Dr.	Petersburg Fire & Emergency Services	1.84
2017	45240013	1237 Halifax St.	AP Hill Community Center	2.18
2017	43030001	1511 Monticello St.	Open Space Near Water Tower	3.96
2017	29170023	1216 Farmer St.	Farmer Street Pool	4.62



Permit Year	Parcel #	Address	Description	Acreage
2017	10110026	339 Low St.	Open Space <1 ac.	1.05
2017	7020001	301 Rolfe St.	Open Space <1 ac.	1.01
2017	29170024	1320 Farmer St.	Open Space	5.38
2017	98010001	100 Ballpark Rd.	Petersburg Sports Complex	53.39
2017	79030027	3100 Homestead Dr.	Dogwood Trace Golf Course	50.36
2017	N/A	N/A	Open Space, The Crater @ 460 and Siege Rd.	138.52
2018	N/A	N/A	Unnamed Dogwood Trace Golf Course Parcel	15.27
2018	N/A	N/A	Open Space Along Fort Bross Dr. E. of Railroad Tracks	5.93
2018	N/A	N/A	Open Space West of Halifax Rd. @ I-85	16.55
2018	N/A	N/A	Open Space N/ of Petersburg Country Club, Adjacent to Flank Rd.	2.31
2018	N/A	N/A	NW of Intersection of Flank Rd. and Johnson Rd.	25.58
2018	N/A	N/A	Open Space Between Budd Rd. and Tynes Rd.	9.39
2018	N/A	N/A	Open Space W. of Flank Rd. and Johnson Rd.	22.37

Table 4.2 was then presented to the City for review. Fertilizer application on City property is managed by the Streets Operations Division of Public Works with the exception of Dogwood Trace Golf Course, which already has a nutrient management plan in place. No fertilizer was applied to the remainder of City properties in 2014. If application is necessary, it is only used on targeted areas with problems.

Section 5 Proposed NMP Implementation Schedule

Per the MS4 Permit requirements, the City must implement the nutrient management plans within 60 months of permit coverage. As stated in the MS4 Permit, the nutrient management plans need to be developed and implemented based on the following measurable outcomes:

- a. Within 24 months of permit coverage, not less than 15% of all identified acres will be covered by turf and landscape nutrient management plans;
- b. Within 36 months of permit coverage, not less than 40% of all identified acres will be covered by turf and landscape nutrient management plans;
- c. Within 48 months of permit coverage, not less than 75% of all identified acres will be covered by turf and landscape nutrient management plans.

The City is only responsible for a nutrient management plan for Dogwood Trace Golf Course which already exists, thus the City has met its nutrient management plan requirement.

TABLE OF CONTENTS FOR IFB #20-0011

	PAGE
<u>INVITATION FOR BID COVER SHEET</u>	1
<u>TABLE OF CONTENTS</u>	2
<u>GENERAL CONDITIONS OF THE CONTRACT</u>	3
<u>CONTRACT (SAMPLE)</u>	30
<u>STANDARD PERRFORMANCE BOND (SAMPLE)</u>	31
<u>STANDARD LABOR AND MATERIAL BOND (SAMPLE)</u>	33
<u>SCOPE OF WORK</u>	36
<u>BID RESPONSE FORM- MANDATORY FORM</u>	43
<u>PRE-BID CONFERENCE</u>	45
<u>CONTRACTOR REGISTRATION FORM-MANDATORY FORM</u>	49
<u>STANDARD BID BOND-MANDATORY FORM</u>	50
<u>REFERENCES-MANDATORY FORM</u>	52
<u>MINORITY BUSINESS REPORT FORM</u>	53
<u>SMALL PURCHASE CARD-MANDATORY FORM</u>	54
<u>SPECIFICATIONS</u>	
<u>DAVIS BACON WAGE DETERMINATION</u>	
<u>FEDERAL HUD PROVISIONS</u>	

GENERAL CONDITIONS OF THE CONTRACT

SECTION 1 - DEFINITIONS

When used in these provisions or elsewhere in the contract, the following terms, or pronouns used in place of them, shall have the meaning ascribed to them in the section, unless it is apparent from the context that a different meaning is intended:

1.1 **OWNER**. The City of Petersburg, Virginia and its authorized agent or representatives.

1.2 **CONTRACT**. The written agreement covering the construction of the project by the Contractor, including the furnishing of labor, materials and equipment in connection therewith. It shall include these General Conditions, the Invitation for Bid, the Bid, Special Provisions, Plans, Specifications, Standard Performance Bond, Certificate of Insurance, any addenda, and all amendments made after execution of the Contract Documents.

1.3 **CONTRACTOR**. The person or organization identified in the Contract and referred to throughout the Contract Document as if singular in number and masculine in gender. The term Contractor means the General Contractor.

1.3.1 **SUBCONTRACTOR**. A Sub-contractor is a person or organization, not the Contractor, who has a direct contract with the Contractor to perform any of the work at the site but who has no contractual relationship with the City of Petersburg.

1.4 **ARCHITECT OR ENGINEER**. An individual, firm, association, or properly qualified person designated by the City of Petersburg, experienced in and legally qualified to practice the profession involved. The term Architect or Engineer means the Architect or Engineer or their legally authorized representative.

1.5 **RESIDENT PROJECT REPRESENTATIVE OR RESIDENT ARCHITECT**. The resident project representative or resident architect shall mean one or more individuals employed by the Architect or Engineer to make inspections on the job site during construction of the project. The City of Petersburg may elect to have a representative on the project as the City of Petersburg's Coordinator. However, all instructions to the Contractor shall be by the Architect or Engineer. The Contractor shall be notified in writing of the appointed representatives prior to actual commencement of construction.

1.6 **NOTICE**. Shall include all written notices, demands, instructions, claims, approvals, and disapprovals required to obtain compliance with the Contract requirements. Any written notice by either party to the Contract shall be sufficiently given if delivered to or at the last known business address of the person, firm or corporation constituting the party to the Contract, or to his, their, or its authorized agent, representative or officer, or when enclosed in a postage prepaid envelope addressed to such last known address and deposited in a United States mail box.

1.7 **MISTAKE**. The term "mistake" as used in these General Conditions shall include every type of mistake, clerical or otherwise.

1.8 **CITY OF PETERSBURG'S COORDINATOR**. Shall mean an individual or his duly designated representative employed by the City of Petersburg to act as City of Petersburg's liaison with the Architect or Engineer in the preparation of drawings, specifications, interpretation of the project criteria, and to act as City of Petersburg's construction observer.

1.9 **SUBSTANTIAL COMPLETION**. Shall mean that the work has progressed to the state where the entire project, including mechanical, electrical, and equipment installations can be occupied or used by the City of Petersburg for its intended purpose, and when any remaining work can be done without interfering with the City of Petersburg's use, provided however that the determination as to "Substantial Completion" shall rest with the Architect or Engineer.

1.10 **CALENDAR DAY**. Shall mean each day shown on the calendar beginning at midnight, including Saturdays, Sundays and Holidays.

SECTION 2 - BIDDING INSTRUCTIONS

2.1 **REGULATIONS GOVERNING CONTRACTORS**. Contractors are required under Title 54, Chapter 7, Code of Virginia, to show evidence of certificate or registration before bid may be received and considered.

2.2 **LAWS, PERMITS AND REGULATIONS**. The contractor must comply with all Local, State and Federal laws, rules, ordinances, and regulations applicable to the Contract and to the work done hereunder, and must obtain, at his own expenses, all permits, licenses, or other authorization necessary for the prosecution of the work. If the Contractor ascertains at any time that any provisions of the Contract are not in compliance with applicable laws, rules, ordinances or regulations, he shall promptly notify the Architect or Engineer in writing. All contractors who perform any construction work for the City are subject to the provisions of the Virginia Code, Title 54.1, Chapter 11, and are required to be licensed as required therein. Each bidder shall, as a part of its bid, provide the City with the following information: (i) whether the bidder is a resident or non-resident of the Commonwealth of Virginia; (ii) whether the bidder possess all required licenses and certificates required by law for the work to be performed; and (iii) documentation of proper license or certification under the provisions of Title 54.1, Chapter 11 of the Virginia Code.

2.2.1 **APPLICABLE LAW AND COURTS**. The solicitation and any resulting contract shall be governed in all respects by the laws of the Commonwealth of Virginia and any litigation with respect thereto shall be brought in the courts of the City of Petersburg. The Contractor shall comply with applicable federal, state, and local laws, and regulations.

2.2.2 **ANTI-DISCRIMINATION**. By submitting their (bids/proposals), (bidders/offerors) certify to the City that they will conform to the provisions of the Federal Civil Rights Act of 1964, as amended, as well as the Virginia Fair Employment Contracting Act of 1975, as amended, where applicable, the Virginians With Disabilities Act, the Americans With Disabilities Act and § 2.2-4311 of the *Virginia Public Procurement Act (VPPA)*. If the award is made to a faith-based organization, the organization shall not discriminate against any recipient of goods, services, or disbursements made pursuant to the contract on the basis of the recipient's religion, religious belief, refusal to participate in a religious practice, or on the basis of race, age, color, gender or national origin and shall be subject to the same rules as other organizations that contract with public bodies to account for the use of the funds provided; however, if the faith-based organization

segregates public funds into separate accounts, only the accounts and programs funded with public funds shall be subject to audit by the public body. (*Code of Virginia of 1950, as amended, § 2.2-4343.1E*).

In every contract over \$10,000 the provisions in 1. and 2. below apply:

1. During the performance of this contract, the contractor agrees as follows:
 - a. The contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
 - b. The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer.
 - c. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting these requirements.
2. The contractor will include the provisions of 1. above in every subcontract or purchase order over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

2.2.3 ETHICS IN PUBLIC CONTRACTING. By submitting their bids or proposals, Bidders or Offerors certify that their bids or proposals are made without collusion or fraud and that they have not offered or received any kickbacks or inducements from any other Bidder/Offeror, supplier, manufacturer or subcontractor in connection with their bid or proposal, and that they have not conferred on any public employee having official responsibility for this procurement transaction and payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised unless consideration of substantially equal or greater value was exchanged.

2.2.4 IMMIGRATION REFORM AND CONTROL ACT OF 1986. By submitting their bids or proposals, the Bidders or Offerors certify that they do not and will not during the performance of this contract employ illegal alien workers or otherwise violate the provisions of the federal Immigration Reform and Control Act of 1986.

2.2.5 DEBARMENT STATUS. By submitting their bids or proposals, Bidders or Offerors certify that they are not currently debarred from submitting bids or proposals on contracts for the type of goods and/or services covered by this solicitation, nor are they an agent of any person or entity that is currently so debarred.

2.2.6 ANTITRUST. By entering into a contract, the Contractor conveys, sells, assigns, and transfers to the City of Petersburg all rights, title and interest in and to all causes of the action it may now have or hereafter acquire under the antitrust laws of the United States and the Commonwealth of Virginia, relating to the particular goods and services purchased or acquired by the City of Petersburg under said contract.

2.3 EXAMINATION OF PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS AND SITE. Each bidder shall visit the site of the proposed work and shall fully acquaint himself with conditions relating to the proposed construction. Bidders shall thoroughly examine and be familiar with the Contract Documents. The failure or omission of any bidder to review or examine any form, instrument, addendum or other document or to visit the site and acquaint himself with existing conditions shall not relieve the bidder from any or all obligations with respect to his bid or to the contract. The submission of a bid shall be taken as a prima facie evidence of compliance with this paragraph and no plea of ignorance or misunderstanding as to what is anticipated under the terms of the bid or the contract shall be available as defense for failure to perform.

2.3.1. Special Conditions, applicable specifically to the project, may be used to supplement or clarify these General Conditions, but no item of the General Conditions may be amended nor deleted, or its intent changed without prior written approval of the Purchasing Agent.

2.4 EXPLANATIONS TO BIDDER. No oral explanation in regard to the meaning of drawings and specifications will be made, and no oral instructions will be given before the award of the contract. Discrepancies, omissions or doubts as to the meaning of drawings and specifications shall be communicated in writing to the Architect or Engineer for interpretation. Bidders shall act promptly and allow sufficient time for a reply to reach them before the submission of their bids. Any interpretation made will be in the form of an addendum to the specifications and/or drawings which will be forwarded to all bidders and its receipt by the bidder shall be acknowledged on Bid Forms. The Architect or Engineer shall make his interpretation and notify the City of Petersburg and all bidders no more than five (5) days from the time of his receipt for interpretation.

2.5 TRADE NAMES AND ALTERNATIVE. When the drawings or specifications specify one or more manufacturers' brand names or makes of materials, devices or equipment as indicating a quality, style, appearance or performance, the bidder shall base his bid on either one of the specified brands or an alternate brand which he intends to substitute. Use of an alternate shall not be permitted unless it has been found to be equal or better by the Architect or Engineer and at no additional cost to the City of Petersburg.

2.5.1 The burden of proof as to the comparative quality and suitability of alternative equipment, articles or materials shall be upon the bidder and he shall furnish at his own expense, such information relating thereto as may be required by the Architect or Engineer. The Architect or Engineer shall be the sole judge as to the comparative quality and suitability of alternative equipment; articles or materials and his decisions shall be final. Any other brand, make of material, device or equipment which, in the opinion of the Architect or Engineer is recognized the equal of that specified, considering quality, workmanship and economy of operation and is suitable for the purpose intended, must be accepted.

2.5.2 Substitution of equipment, articles or materials for specified items or approved alternates after bid opening may not be made without the prior written approval of the Architect or Engineer.

1.6 INSURANCE

1. The Contractor shall purchase and maintain in force, at his own expense, such insurance as will protect him and the City from claims which may arise out of or result from the Contractor's activities, whether such be by himself, his employees, agents, subcontractors, or by anyone for whose acts any of them may be liable.

All insurance coverages will be provided by insurance companies authorized to sell insurance in Virginia by the Virginia State Corporation Commission. The Contractor shall furnish as a minimum the hereinafter coverages and limits, and on forms and of companies which are acceptable to the City Attorney and/or Risk Management and shall require and show evidence of insurance coverages on behalf of any subcontractors (if applicable), before entering into any agreement to sublet any part of the work to be done under this Contract.

MINIMUM INSURANCE COVERAGES AND LIMITS REQUIRED:

- a. Workers' Compensation - Statutory requirements and benefits. Coverage is compulsory for employers of three or more employees, to include the employer. Contractors who fail to notify the City of increases in the number of employees that change their workers' compensation requirements under the *Code of Virginia of 1950*, as amended, during the course of the contract shall be in noncompliance with the contract.
- b. Employer's Liability - \$100,000.
- c. Commercial General Liability - \$1,000,000 per occurrence, \$2,000,000 aggregate. Commercial General Liability is to include bodily injury and property damage, personal injury and advertising injury, products and completed operations coverage, and pesticide/herbicide applicator coverage. The City of Petersburg must be named as an additional insured and so endorsed on the policy.
- d. Automobile Liability - \$1,000,000 per occurrence, \$2,000,000 aggregate.

2. Instructions Regarding Insurance Certificates: The Contractor and his insurance company should carefully review the insurance requirements applicable to this contract. All requirements must be met before the City will execute the contract. In particular, we would call your attention to the following:

- a. Please note that the Insurance Certificate must state that the Commercial General Liability policy and the Umbrella Liability Insurance Policy where required, shall name the "City of Petersburg" as additional insured. This requirement may be met by placing the following language on the Certificate. Many Certificates have a space headed "Description" where the language may be inserted as follows: the "City of Petersburg is additional insured" *or that* the "City of Petersburg is additional insured with respects to General Liability; and/or Umbrella Liability policies".
- b. The Insurance Certificate must also contain the required statement concerning notice of cancellation or other change in coverage. The statement used on some Certificate forms is not acceptable. The statement which is required by the contract documents reads as follows: "Such certificate shall provide that in the event of the cancellation of the policy or policies listed on such certificate, not less than 30 days' notice in writing shall be given to the City." NOTE: This requirement may be achieved through modifications to the cancellation clause by striking the words "endeavor to" in the second line and by striking the clause reading "but failure to mail such notice shall impose no obligation or liability of any kind upon the insurer, its agents or representatives." OR In lieu of modifying the cancellation clause, the City of Petersburg may be listed an additional insured by an endorsement to the policy or by endorsement to the policy the insurer will provide 30 day cancellation notice to the City of Petersburg. The endorsement should be on a separate form and attached to the certificate.

c. The Certificate Holder should be listed as:

The City of Petersburg
c/o Budget and Procurement Office
100 W. Washington Street, 2nd Floor
Petersburg VA 23803
Contract No.

d. Certificate of Insurance must be signed.

2.6.3 BLASTING INSURANCE. Should any blasting become necessary to perform the Contract, liability insurance shall be provided by the Contractor in the amount of at least \$1,000,000 per occurrence, directly or indirectly arising from or during the time blasting is done. Such insurance may be provided either under a separate blasting insurance contract, by endorsement of the public liability and property damage insurance contract, or by any other insurance contract. Such insurance shall cover the General Contractor and shall extend to provide coverage of any sub-contractor doing blasting. No blasting shall be done until the insurance covering blasting is provided as required by this sub-section or in greater amounts if so required by the City of Petersburg, provided, however that in the event blasting is solely and exclusively to be carried out by and under the supervision and direction of a sub-contractor, then the City of Petersburg may permit such sub-contractor to show evidence of insurance as aforesaid and in at least like amounts, and the City of Petersburg may accept such evidence of insurance in lieu of the General Contractor's furnishing such insurance provided the Contractor is included as an insured on such sub-contractor's policy. If greater amounts of Insurance are required by the City of Petersburg, notice of such requirements shall be given to all Bidders not less than fifteen (15) days prior to the Bid Opening.

2.6.4 The Contractor shall also cover automobiles and trucks used for the work with Public Liability and Property Damage insurance. Such coverage shall include vehicles owned, hired or rented by the Contractor. All of the Contractor's insurance shall be made contingent to protect him from operations of his sub-contractors and by anyone for whose acts any of them may be liable, as required under paragraph 2.6. The limits of liability shall be in the amounts of \$300,000/\$500,000 public liability and \$100,000 property damage unless greater amounts are specified pursuant to sub-section 2.6 of these General Conditions.

2.7 TAXES. The Contractor shall pay all taxes required by law resulting from the work or traceable thereto except taxes and assessments on real property comprising the site of the project.

2.8 BID SECURITY. Bids shall be accompanied by a bid guarantee with not less than five percent (5%) of the amount of the bid, and may be certified check or a cashier's check or a Bid Bond made payable to the City of Petersburg. Such Bid Bond or check shall be submitted with the understanding that it shall guarantee that the bidder will not withdraw his bid during the period of sixty (60) days following the two hours subsequent to the opening of bids, and subject to the terms and conditions of Paragraph 2.10, that if the bid is accepted he will enter into formal contract with the City of Petersburg in accordance with the form of agreement included as a part of the Contract Documents, and that the Standard Performance Bond and Certificate of Insurance will be given; and that in the event of the failure to enter into said contract and give said Bond and Certificate of Insurance within ten (10) days after he has received notice of acceptance of his bid, the bidder shall be liable to the City of Petersburg for the full amount of the bid guarantee as representing the damage to

the City of Petersburg of the default of the bidder in any particular thereof. The Bid Bonds and checks shall be returned to all except the three lowest bidders after the formal opening of bids. The remaining Bid Bonds and checks will be returned to the three lowest bidders after the City of Petersburg and the accepted bidder have executed the Contract, and Standard Performance Bond and Certificate of Insurance have been approved by the City of Petersburg. If the required contract has not been executed within sixty (60) days after the date of the opening of bids, or any extension agreed to in writing by both parties, then bond or check of any bidder will be returned upon request, provided he has not been notified of the acceptance of his bid prior to the date of such request. No plea of mistake in the bid shall be available to the bidder for the recovering of his bid security or as a defense to any action based upon the neglect or refusal to execute a contract except as provided in Paragraph 2.10.

2.8.1 A Bid Bond will be accepted only if executed on the official form furnished by the City of Petersburg. Any bid accompanied by a bond executed on a copy, duplicate or facsimile will be rejected.

2.9 PREPARATION AND SUBMISSION OF BIDS.

A. Bids shall be submitted on the forms furnished, or copies thereof, and shall be signed in ink. Erasures or other changes in a bid must be explained or noted over the signature of the bidder. Bids containing any conditions, omissions unexplained erasures or alterations or items not called for in the bid form, or irregularities of any kind may be rejected by City of Petersburg as being incomplete. Bidders shall bid on all items as shown on the bid form, if required by the City of Petersburg. Bids submitted in lead pencil may be cause for rejection.

B. Each bid must give the full business address of the bidder and be signed by him with his usual signature. Bids by partnerships must furnish the full name of all partners and must be signed in the partnership name by one of the members of the partnership. Bids by corporation must be signed with the legal name of the corporation followed by the name of the State in which they are incorporated and by the signature and designation of the president, secretary, or other person authorized to bind it in the matter. The name of each person signing shall also be typed or printed below the signature. A bid by a person who affixes to his signature the word "President", "Secretary", "Agent", or other designation, without disclosing his principal, may be held to be the bid of the individual signing. Satisfactory evidence of the authority of the officer signing in behalf of the corporation shall be furnished if signed by other than the President.

2.10 WITHDRAWAL OR MODIFICATION OF BIDS. Prior to the time designated for receipt of bids, bids may be either withdrawn or modified by written and signed notice, provided however, that no bid may be withdrawn after the time set forth on the first page of the Invitation for Bid for the opening of the bids. Mistake on the part of the bidder in preparing his bid confers no right upon the bidder to withdraw the bid after the time designated for receipt of bids. However, Section 2.2-4330, concerning withdrawal of bids due to error will be handled as follows:

1950 Code of Virginia of 1950, as amended,

Section 2.2-4330 of the Code of Virginia: Withdrawal of bid due to error. (A). A bidder for a public construction contract other than a contract for construction or maintenance of public highways, may withdraw his bid from consideration if the price bid was substantially lower than the other bids due solely to a mistake therein, provided the bid was submitted in good faith, and the mistake was a clerical mistake as opposed to a

judgment mistake, and was actually due to an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a bid, which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the bid sought to be withdrawn. The bidder shall submit to the public body or designated official his original work papers, documents and materials used in the preparation of the bid within one day after the date fixed for submission of bids. (B). the work papers shall be delivered by the bidder in person or by registered mail at or prior to the time fixed for the opening of bids. The bids shall be opened one day following the time fixed by the public body for the submission of bids. Thereafter, the bidder shall have two hours after opening of bids within which to claim in writing any mistake as defined herein and withdraw his bid. The contract shall not be awarded by the public body until the two-hour period has elapsed. Such mistake shall be proved only from the original work papers, documents and materials delivered as required herein. (C). No bid may be withdrawn under this section when the result would be the awarding of the contract on another bid of the same bidder or another bidder in which the ownership of the withdrawing bidder is more than five percent. (D). If a bid is withdrawn under the authority of this section, the lowest remaining bid shall be deemed to be the low bid. (E). No bidder who is permitted to withdraw a bid shall, for compensation, supply any material or labor to or perform any subcontract or other work agreement for the person or firm to whom the contract is awarded or otherwise benefit, directly or indirectly, from the performance of the project for which the withdrawn bid was submitted. (F). If the public body denies the withdrawal of a bid under the provisions of this section, it shall notify the bidder in writing stating the reasons for its decision.

2.12 **REJECTION OF BIDS.** The City of Petersburg reserves the right to waive informalities and to reject any or all bids.

SECTION 3 - AWARD AND EXECUTION OF CONTRACT

3.1 **AWARD OF CONTRACT.** The contract will be awarded or the bids rejected as soon as reasonably possible, but no later than sixty (60) days after the date of opening of bids, unless period of acceptance is otherwise extended at request of City of Petersburg and agreed to in writing by the bidder, or bidders. The contract will be awarded to the lowest responsive, responsible bidder, who shall be determined by the Purchasing Agent in accordance with the provisions of the City Charter, the City Code, City Council and the laws of the Commonwealth of Virginia.

3.2 **ENTERING CONTRACT.** Upon award of the contract to a bidder, such bidder shall enter into a contract by signing and by furnishing the Bond for faithful performance as prescribed in paragraph 3.3 and the Certificate of Insurance as prescribed in paragraph 2.6 which are required to be procured by the Contractor within such further time as the City of Petersburg may allow. All documents referred to are attached hereto.

3.2.1 No contract shall result from the submission of any bid and no liability shall occur with respect thereto until a written contract and accompanying documents have been fully and completely executed on the part of the successful bidder and the City of Petersburg. However, failure by the successful bidder to enter into a written contract shall cause the successful bidder to forfeit the full amount of the bid guarantee to the City of Petersburg. This provision is subject to the terms and conditions of paragraph 2.10 of this document.

3.2.2 Execution of Documents - All documents which the bidder is required to execute under these General Conditions shall carry the signature of the president of the corporation, the corporate seal and shall be attested

by the secretary of the corporation provided, however, if the board of directors of a corporation authorized another officer to act for the corporation, then a sealed and attested copy of such authorization shall accompany the signature of such other officer. In the case of an individual or partnership, the individual to be bound shall sign, and each partner to be bound shall sign the document or documents.

3.3 STANDARD PERFORMANCE BOND AND LABOR AND MATEERIAL PAYMENT BOND.

A. In case of a construction contract exceeding \$50,000 awarded to any prime contractor, such contractor shall furnish to the City of Petersburg the following bonds:

1. A standard performance bond in the sum of the contact amount conditioned upon the faithful performance of the contract in strict conformity the plans, specifications and conditions of the contract.

2. A standard labor and material payment bond in the sum of the contract amount. Such bond shall be for the protection of claimants who have and fulfill contracts to supply labor or materials to the prime contractor to whom the contract was awarded, or to any subcontractor in the prosecution of the work provided for in such contract, and shall be conditioned upon the prompt payment for all such materials furnished or labor supplies or performed in the prosecution of the work. "Labor or Materials" shall include public utility services and reasonable rentals of equipment but only for periods when the equipment rented is actually used at the site.

B. Each of such bonds shall be executed by one or more surety companies selected by the contractor which are legally authorized to do business in Virginia.

C. Bonds shall be made payable to the City of Petersburg.

D. Each of the bonds shall be filed with the Purchasing Agent.

E. Nothing in this section shall prelude such contractor from requiring each sub-contractor to furnish a payment bond with surety thereon in the sum of the full amount of the contract with such sub-contractor conditioned upon the payment to all persons who have and fulfill contracts which are directly with the sub-contractor for performing labor and furnishing materials in the prosecution of the work provided for in the sub-contract.

3.4 SUB-CONTRACTS. Before making any sub-contract, the Contractor must submit a written statement to the Architect or Engineer, and the Director of the Department of Public Works, with copy to the Purchasing Agent giving the name and address of the proposed sub-contractor, the portion of the work and materials which he is to perform and furnish and a statement in writing from such sub-contractor that he waived all rights to assert any claims, actual and/or consequential against the City of Petersburg allegedly arising from or growing out of any delays in the work schedule or any failure of the contractor to pay such sub-contractor any sums owed by the contractor to such sub-contractor.

3.4.1 If the Director of the Department of Public Works and the Architect or Engineer find that the proposed subcontractor is qualified, they will so advise the Purchasing Agent, who will notify the Contractor in writing. The Director and Architect or Engineer may revoke approval of any subcontractor only for good cause. Notice of such revocation of approval will be given in writing to the Contractor by the Purchasing Agent.

3.5 **SEPARATE CONTRACTS.** The City of Petersburg reserves the right to let other contracts in connection with project, the work under which will proceed simultaneously with the execution of this Contract. The Contractor shall afford other separate contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work and the Contractor shall take all reasonable action to coordinate his work with theirs. If the work performed by the separate contractor is defective or so performed as to prevent the General Contractor from carrying out his work according to the plans and specifications, the Contractor shall immediately notify the Architect or Engineer upon discovering such conditions. Upon receiving notification, the Architect or Engineer shall take such appropriate steps as are necessary to allow the Contractor to carry out his work under this Contract, and appropriate extensions of time and change orders shall be given to the Contractor pursuant to Paragraph 4.2 and 5.12 for any delays and extra costs caused by the separate contractor's failure of proper performance.

3.6 **INDEMNITY.** The Contractor shall, during the performance of the entire Contract and for year from the date after the substantial completion of the work, indemnify, reimburse and keep and hold the City of Petersburg and its employees, free and harmless from liability on account of injury or damage to persons, including the Contractor's employees and employees of each subcontractor, firms and corporations, including subcontractors, and property, growing out of or directly or indirectly resulting from the performance of the contract or any subcontract and the failure, refusal or neglect to comply with the provisions of the Contract; and in the event that any suit or proceeding is brought against the City of Petersburg, at law or in equity, either independently or jointly with the Contractor or a Subcontractor on account thereof, the Contractor shall defend the City of Petersburg in any such suit or proceeding at the cost of the Contractor; and in the event of a final judgment or decree being obtained against the City of Petersburg, either independently or jointly with the Contractor or Subcontractor, then the Contractor shall pay such judgment or comply with such decree with all costs and expense of whatever nature and hold the City of Petersburg harmless therefrom. The Contractor shall insure the liability assumed by him under this contract and have evidence of such insurance certified to the City of Petersburg on forms provided by the City of Petersburg, where such insurance is available. Nothing in the Section shall be deemed to be in conflict with the Code of Virginia (1950), as amended.

SECTION 4 - PERFORMANCE OF CONTRACT

4.1 **TIME.** The Contractor must commence work as set forth in Paragraph 4 of the Invitation for Bid. Time being the essence of this Contract, the Contractor shall prosecute the work diligently, using such means and methods of construction as will secure its full completion in accordance with the requirements of the Contract Documents not later than the date specified therefore or on the date to which the time for completion may be extended.

4.1.1 Unless the date of completion is extended pursuant to the provisions of paragraph 4.2 hereof, the Contractor must complete the work covered by this Contract not later than the date specified.

4.1.2 The Architect or Engineer, with concurrence by the City of Petersburg, shall solely judge whether the work hereunder has been completed within the time stipulated.

4.1.3 It is mutually agreed between the parties that there will be on the part of the City of Petersburg substantial monetary damage in the event the Contractor should fail to complete the work within the time fixed for completion in the contract or within the time to which such completion may have been extended.

4.1.4 The amount per day set forth in the Invitation for Bid is hereby agreed upon as the liquidated damages for each and every calendar day that the time consumed for substantial completion of the work exceeds the time allowed therefore, (See Paragraph 1.9 for definition of substantial completion). The Contractor further agrees that time is of the essence to the City of Petersburg. This amount of liquidated damages shall, in no event, be considered as a penalty or otherwise than as liquidated and adjusted damages to the City of Petersburg because of the said delay and the Contractor and his surety agree that the said sum per day for each such day shall be deducted and retained out of the monies which may become due hereunder, and, if not so deductible, the Contractor and his surety shall be liable therefor.

4.2 **EXTENSION OF TIME.** It is mutually agreed that no extension beyond the date of completion fixed by the terms of the Contract shall be effective unless granted in writing by the Purchasing Agent. An application by the Contractor for extension of time must be in writing; must set forth in detail the reasons and causes of delay and must be submitted to the Architect or Engineer within thirty (30) days following the last occurrence of the delay. The Architect or Engineer shall respond to Contractor's Application for an Extension of Time in writing within ten (10) days following the receipt by him of the application, and such reply must set forth in detail the Architect's or Engineer's findings and the reasons therefore.

4.2.1 If such an application is made, the Contractor shall be entitled to an extension of time for delay in completion of the work should the Contractor be obstructed or delayed in the commencement, prosecution or completion of any part of said work by any act or delay of the City of Petersburg, or by acts of omission of other persons on this project, other than Contractors, subcontractors or sub-contractors, or by a riot, insurrection, war, pestilence, acts of public authorities, fire, lightning, hurricanes, earthquakes, tornadoes, floods, extremely abnormal and excessive inclement weather as indicated by the records of the local weather bureau for a five-year period preceding the date of the Contract, or by strikes, or other causes, which causes a delay, in the opinion of the Architect or Engineer, are entirely beyond the expectation and control of the Contractor, and concurred in by the City of Petersburg.

4.2.2 The Contractor shall be entitled to an extension of time for such causes as set out in 4.2.1 above only for the number of days of delay which are due solely to such causes and then only upon the approval of the City of Petersburg following a determination by the Architect or Engineer that the delays took place due solely to one or more of such causes and that the conditions actually delayed the completion of the project. It is hereby understood that the direction by the Architect or Engineer of the order and sequence of the work shall not in itself constitute a basis for extension of time.

4.2.3 No application for extension of time shall be approved unless it can be demonstrated that the Contractor reasonable endeavored to carry out other phases of the work which were not affected by one or more of the conditions as set out herein before and for which an extension application has been filed.

4.2.4 The determination made by the City of Petersburg on an application for an extension of time shall be binding provided however, that the conditions set forth in Paragraph 9.1 shall apply to disputes in arriving on extensions of time.

4.2.5 The Contractor agrees to make no claim for consequential damages for delay in the performance of this Contract occasioned by any act or omission to act of the City of Petersburg or any of its representatives or because of any injunction which may be brought against the City of Petersburg or its representatives and the City of Petersburg agrees that the Contractor shall be fully compensated for direct expenses incurred,

including job site overhead expenses, insurance and taxes related to expenses, and profit applied to the total reimbursable expenses, provided, however, that this section shall not apply to changes in the work as set forth in Paragraphs 5.12 and 5.12.1 of these General Conditions. Otherwise, the Contractor agrees to make no claim for damages, direct or consequential, for delay in the performance of this contract occasioned by any other reason whatsoever and further agrees that any such claim shall be fully compensated for by an extension of time and waives every right to bring an action for any latter damages.

4.3 PROGRESS SCHEDULE. To enable the work to be laid out and prosecuted in an orderly and expeditious manner, the Contractor, within fourteen (14) days after the authorization to proceed as set forth in Paragraph 3 of the Invitation for Bid, unless otherwise directed by the Architect or Engineer, shall submit to him a proposed progress schedule, showing the anticipated time of commencement and completion of each of the various operations to be performed under this Contract, together with all necessary and appropriate information regarding sequence and correlation of work and estimated time required for delivery of all materials and equipment required for the work, including a schedule of submission of shop drawings and samples. The proposed schedule shall be revised as directed by the Architect or Engineer until finally approved by him, and, after such approval, shall be strictly adhered to by the Contractor, unless, upon written permission of the Architect or Engineer, it is changed, provided such change is agreed to by the City of Petersburg.

4.3.1 If the Contractor shall fail to adhere to the approved progress schedule or to the schedule as revised, he must promptly adopt such other or additional means and methods of construction as will make up for the time lost and will assure completion in accordance with such schedule.

4.3.2 If the Contractor's progress is more than 10% behind his projected schedule, partial payments may be withheld until such time as the work is at least within 90% of the projected schedule and is so maintained for 30 days thereafter.

4.4 ARCHITECT'S OR ENGINEER'S STATUS. All work shall be done under the general observation of the Architect or Engineer. The Contractor shall carry out the work in accordance with the Contract Documents. The construction means, methods, techniques, sequences or procedures or safety precautions and programs in connection with the work shall be at the direction and the responsibility of the Contractor. However, the Architect shall have authority to and shall reject any and all work whenever it is necessary to do so in order to insure the proper execution of the work in accordance with the Contract Documents. All orders from the City of Petersburg shall be transmitted through him. He shall be the final interpreter of the Contract Documents and Change Orders and he shall finally determine all other questions in connection with the Contract Documents, Change Orders and all other phases of the drawings and specifications. The Architect or Engineer shall have no authority to approve or order changes in the work which alter the terms or conditions of the Contract. The Architect or Engineer shall confirm in writing within fourteen (14) days any oral order, direction, requirement or determination.

4.4.1 As the Architect or Engineer is the interpreter of the Contract and the judge of its performance, he shall use his powers under the Contract to enforce faithful performance by the Contractor. It shall be the Architect's responsibility to verify that the Contractor's schedule is adhered to strictly. Should the Contractor's progress fall behind the schedule established by the Contractor and approved jointly by the City of Petersburg and the Architect, the Architect shall promptly notify the Contractor that the work must get back on schedule and

further advise the City of Petersburg of the steps which the Contractor has taken to put the project back on schedule and maintain the schedule.

4.4.2 In case of the termination of the employment of the Architect or Engineer, the City of Petersburg shall appoint a capable and reputable Architect or Engineer. The status under the Contract of the Architect or Engineer so appointed shall be that of the former Architect or Engineer.

4.5 **MATERIAL SERVICES AND FACILITIES.** Unless otherwise noted, the Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, sanitary facilities and other services necessary for the proper execution and completion of the work.

4.6 **DRAWINGS AND SPECIFICATIONS.** The general character and scope of the work are illustrated by the drawings and specifications. Any additional detail and other information deemed necessary by the Architect or Engineer will be furnished to the Contractor when and as required by the work.

4.6.1 In case of difference between small and large scale drawings, the large scale drawings shall govern.

4.6.2 Where on any of the drawings a portion of the work is drawn out and the remainder is indicated in outline, the parts drawn out shall apply also to all other like portions of the work.

4.6.3 Where the work "similar" appears on the drawings, it shall be interpreted in its general sense and not as meaning identical and all details shall be worked out in relation to their location and their connection with other parts of the work, and it shall be equal in quality and performance.

4.6.4 The specifications are divided into several parts for convenience only, since the entire specifications must be considered as a whole. The division of the specifications is not intended to limit the work performed by any trade. The Contractor shall be responsible for the coordination of the trades, subcontractors and vendors engaged by the Contractor to perform this work.

4.6.5 Measurements or dimensions shown on the drawings shall be verified at the site by the Contractor. Scale measurements or dimensions for the drawings shall not be scaled. Where there are discrepancies, the Architect or Engineer shall be notified immediately for clarification.

4.6.6 The Contractor shall keep on the work a record set of drawings and specifications on which all changes or as-built conditions shall be noted, and shall at all times give the City of Petersburg, Architect or Engineer and their authorized representatives access thereto. The Architect or his duly authorized representatives shall inspect the record set of drawings and specifications on a monthly basis prior to preparation of the monthly progress payment. In the event said drawings and specifications are not up to date, the monthly progress payment may be withheld until the record set of drawings and specifications are brought up to date.

4.6.7 All drawings, specifications and copies thereof furnished the Contractor for this project are to be turned over to the City of Petersburg at the completion of the work.

4.7 DETAIL DRAWINGS AND INSTRUCTIONS. The Contractor will be furnished additional instructions and detail drawings as may be necessary to carry out work included in the Contract. The additional drawings and instructions, thus supplied to the Contractor, shall be consistent with Contract Documents, true developments thereof and shall be so prepared that they can be reasonably interpreted as a part thereof. The Contractor shall carry out work in accordance with the additional detail drawings and instructions.

4.7.1 The Contractor shall prepare and submit to the Architect for review:

1. A schedule fixing the dates at which special detail drawings will be required; and
2. A schedule fixing the respective dates for the submission of shop or setting drawings, the beginning of manufacture, testing and installation of materials, supplies and equipment and the completion of the various parts of the work, each such schedule to be subject to change from time to time in accordance with the progress of the work.

4.8 SHOP DRAWINGS. Shop drawings are drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are prepared by the Contractor or any subcontractor, manufacturer, supplier or distributor, and which illustrate some portion of the work.

4.8.1 The Contractor shall review, stamp with his approval and submit for approval of the Architect or Engineer shop and setting drawings and schedule required by the specifications or that may be requested by the Architect or Engineer and no work shall be fabricated by the Contractor, save at his own risk, until such approval has been given.

4.8.2 Drawings and schedules shall be submitted in quadruplicate (unless otherwise specified) accompanied by letter of transmittal which shall give a list of the numbers and dates of the drawings submitted. Drawings shall be complete in every respect and bound in sets.

4.8.3 The Contractor shall submit all drawings and schedules sufficiently in advance of construction requirements to allow ample time for checking, correcting, re-submitting and checking; the Architect or Engineer shall, within fourteen (14) days after receipt, return such drawings and schedules to the Contractor indicating his approval or disapproval.

4.8.4 If a drawing, as submitted, indicates a departure from the Contract requirements which the Architect or Engineer finds to be in the interest of the City of Petersburg and to be so minor as not to involve a change in the Contract price or time for performance, he may approve the drawing and confirm, in writing, the changes.

4.8.5 The approval of shop and setting drawings will be general and, except as otherwise provided in paragraph 4.6, shall not be construed:

1. As permitting any departure from the contract requirements;
2. As relieving the Contractor of the responsibility for any error in details, dimensions or otherwise that may exist; and

3. As approving departures from additional details or instructions previously furnished by the Architect or Engineer.

4.8.6 The Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submittal and the Architect has given written approval to the specific deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof.

4.8.7 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Architect on previous submittals.

4.9 **OMISSIONS, ERRORS, DISCREPANCIES.** Work reasonably anticipated and usually incidental to the Contract although not specifically referred to in the Contract shall be furnished and performed by the Contractor. Labor, materials and equipment directly or indirectly necessary to complete the construction of the project, whether or not the same may have been expressly provided for in the Contract, shall be furnished and performed by the Contractor at no additional cost to the City of Petersburg provided that such labor, materials and equipment are reasonably anticipated and usually incidental to the Contract.

4.9.1 The Contractor shall notify the Architect or Engineer, in writing, immediately upon discovery of any error or omission in the reference point or instructions furnished by the Architect or Engineer in the layout, or any discrepancy within the Contract Documents as furnished by the Architect or Engineer, or past thereof or between the drawings as furnished by the Architect or Engineer and the conditions on the site.

4.9.2 After such discovery, the Contractor shall proceed with the performance of the Contract only after receiving written instructions from the Architect or Engineer.

SECTION 5 - CONTROL OF THE CONTRACT

5.1 **MATERIALS AND WORKMANSHIP.** The General Contractor shall supervise all workmanship, including that of sub-contractors, to insure that it be of the highest grade and according to best standard practice. All work shall be performed by skilled artisans where necessary.

5.1.1 For every trade and for every product, the installation and application techniques shall be in strict accordance with the highest quality prescribed by the applicable trade standards and by such specific recommendations as are called for by the Manufacturer.

5.2 **ACCESS TO THE PROJECT.** The Architect or Engineer and the City of Petersburg shall have access at all times to the work for inspection wherever it is in preparation or progress and the Contractor shall provide proper facilities for such access and inspection. Other Contractors of the City of Petersburg shall be permitted access to the site of the project when it is required for performance of their respective contracts.

5.3 **INSPECTION.** All material and workmanship, if not otherwise designated by the specifications, shall be subject to inspection, examination and test by the Architect or Engineer at any and all times during

manufacture and/or construction. The Architect or Engineer shall have the right to reject defective material and workmanship or require their correction. Rejected workmanship shall be satisfactorily corrected and rejected material shall be satisfactorily replaced with proper material without charge therefor and the Contractor shall promptly segregate and remove the rejected material from the premises. If the Contractor fails to proceed at once with replacement of rejected material and/or the correction of defective workmanship, the City of Petersburg may, by contract or otherwise, replace such material and/or correct such workmanship and charge the cost to the Contractor, or may terminate the right of the Contractor to proceed as provided in paragraph 7.1, the Contractor and surety being liable for any damage to the same extent as provided in paragraph 7.1 for termination thereunder. The Architect or Engineer may order that the Contractor shall at no expense to the City of Petersburg correct any defective materials or workmanship which does not conform with the terms of the Contract Documents. The Architect or Engineer shall have the authority to approve materials and/or workmanship which are determined by him not to be in strict accordance with the terms and conditions as set forth in the Contract Documents; provided, however, that the Architect or Engineer determines that such materials and/or workmanship are workable and will cause no significant harm either functionally, structurally or aesthetically to the project. The City of Petersburg shall be entitled to a credit based upon the Architect's or Engineer's determination as to the diminished value of the project. The Architect or Engineer shall immediately notify the City of Petersburg and the Contractor following his decision that a credit as to the diminished value is due.

5.3.1 The Contractor shall furnish promptly, without additional charge, all reasonable facilities, labor, and materials necessary and convenient for making such tests as may be designated in the Contract Documents.

5.3.2 If any work has been covered or concealed which the Architect or Engineer has not specifically requested to observe prior to being covered or concealed, the Architect or Engineer may request to see such work and it shall be exposed by the Contractor. If such work is found to be in accordance with the Contract Documents, payment of the cost of opening or uncovering and replacement shall be handled in accordance with the provision as set forth in the Contract Documents for Changes in the Work, and Extras. If such work is found to be not in accordance with the Contract Documents, the Contractor shall pay the cost of opening or uncovering and replacement and shall in addition, at no cost to the City of Petersburg, make the necessary corrections to bring the work into accord with the Contract Documents.

5.4 **SAMPLES AND TEST SPECIMENS.** The Contractor shall furnish sufficient material for the testing of samples taken by the Architect or Engineer at no cost to the City of Petersburg. All work shall be performed using material represented by the approved samples.

5.5 **SUPERINTENDENCE BY CONTRACTOR.**

A. The Contractor shall give his personal superintendence to the work or have a competent foreman or superintendent, satisfactory to the Architect or Engineer and City of Petersburg, on the work at all times during progress of the work.

B. The Contractor shall, at all times, enforce strict discipline and order among the workers on the project, and shall not employ on the work any unfit person or anyone not skilled in the work assigned to him.

C. Upon notification by the Architect or Engineer, the City of Petersburg reserves the right to suspend the work until such time as a competent foreman or supervisor satisfactory to the City of Petersburg is assigned

to the project. Contract time shall not be extended for such suspension nor shall the Contractor be entitled to any additional payment of any kind whatsoever as a result of such suspended work.

5.6 **SURVEYS AND LAYOUTS.** The Architect or Engineer shall furnish all necessary drawings showing all pertinent data required for completion of work. The Contractor shall provide competent engineering service to execute the work in accordance with the Contract Documents and shall be responsible for the accuracy of his work.

5.6.1 The City of Petersburg has established or will establish such general reference points and bench marks on the project site as will enable the Contractor to proceed with the work. If the Contractor finds that any previously established reference points have been destroyed or misplaced through his fault, he shall promptly notify the City of Petersburg, who may replace such general reference points and bench marks at the Contractor's expense.

5.6.2 The Contractor shall protect and preserve the established bench marks and monuments and shall make no changes in locations without the written approval of the City of Petersburg. Any of these which may be lost or destroyed through fault of the Contractor or which require shifting because of necessary changes in grades or locations shall, subject to prior approval of the City of Petersburg, be replaced and accurately located by the Contractor, at no expense to City of Petersburg.

5.7 **PROTECTION OF TRAFFIC.** All traffic control shall conform to the requirements of the City Traffic Engineer. The Contractor shall employ such methods in the performance of the Contract and provide such barriers, guards, temporary bridges, detours, notices, lights, warning and other safe-guards as may be necessary to prevent injury to persons and property. The Contractor shall define the line of safe passage with suitable lights, wherever the public may have access to the site of the project, during the hours from one-half hour before sunset to one-half hour after sunrise.

5.7.1 The Contractor shall be fully responsible for knowledge of and shall abide by each and every law, rule or regulation of the City of Petersburg and/or the Commonwealth of Virginia covering such project and in force at the time of the Contract. He shall not be entitled to claim any damages for delay occasioned by compliance with such laws. Where such laws are changed during the course of the Contract, and where such changes create additional costs to the Contract or affect the time of the Contract, such changes shall be made effective through Change Order prepared in accordance with Paragraph 5.12 and extension of time of the Contract in accordance with Paragraph 4.2.

5.8 **ACCIDENT PREVENTION.** Precaution shall be exercised at all times for the protection of persons, including employees, and property. The safety provisions of applicable laws and building construction codes shall be observed, and all work done under this contract shall be in accordance with the provisions of all federal, state and local regulations.

5.9 **PROTECTION OF WORK AND PROPERTY.** The Contractor shall continuously maintain adequate protection of all his work from damage and shall protect the City of Petersburg's property from injury or loss arising in connection with this Contract. He shall make good any such damage, injury or loss, except such as may be directly caused by agents or employees of the City of Petersburg, Acts of God, or any other damages, injury or loss caused by others than Contractor, provided the Contractor exercises reasonable and ordinary care to protect the work and property. He shall adequately protect adjacent property as provided by

law and the Contract Documents. He shall notify the City of Petersburg promptly, in writing, when any damage, injury or loss is experienced on the project.

5.9.1 In an emergency affecting the safety of life or of the work or of adjoining property the Contractor, without special instructions or authorization from the Architect, Engineer or City of Petersburg, is hereby permitted to act, at his discretion, to prevent such threatened loss or injury. Any compensation, claimed by the Contractor on account of emergency work, shall be determined by the Architect or Engineer, with concurrence by the City of Petersburg.

5.9.2 When necessary for the proper protection of the work, temporary heating of a type approved by the Architect or Engineer must be provided unless otherwise specified. See subsection 4.5.

5.9.3 The Contractor shall take the necessary steps to prevent damage to any work that may be subject to damage by climatic conditions. An incurred delay may be acceptable cause for extension of time in accordance with Paragraph 4.2.

5.10 **SIGNS.** The Contractor shall maintain a sign or signs, at his cost, on the site giving the name of his company and his emergency telephone number. No signs shall be erected without prior approval of the City of Petersburg as to design or location.

5.11 **USE OF PREMISES AND REMOVAL OF DEBRIS.** The Contractor shall maintain the site of the project in an orderly and clean condition, and shall at suitable intervals remove accumulations of rubbish or refuse materials, surplus concrete, mortar and excavated materials not required or suitable for backfill. Washings from concrete mixers or mixing boxes shall not be deposited directly or indirectly in the drainage or sewer system of the City of Petersburg or on paved streets. The Contractor shall keep the site, inclusive of vehicular and pedestrian traffic routes through the site, free of dirt and dust by periodic blading, power sweeping, watering or other approved means.

5.11.1 Upon completion and before final acceptance of the work performed under the Contract the Contractor shall remove all rubbish, surplus or discarded materials, false work, forms, temporary structures, field offices, project signs, signs not a part of the project, his equipment and machinery, and shall leave the site and ground occupied by him in connection with the performance of the Contract in an orderly and clean condition satisfactory to the City of Petersburg. Buildings constructed, altered, or worked in by the Contractor in the performance of the Contract shall be left "broom Clean", and stains and other blemishes resulting from his operations, such as dropped or splattered concrete or mortar and paint, shall be removed from floors, walls, ceiling, windows and all other exposed surfaces.

5.12 **CHANGES IN THE WORK, AND EXTRAS.** The Contractor shall perform at the request of the Architect or Engineer any related work, not covered by plans, specifications or unit prices, which may arise during construction on the basis of a lump sum negotiated between the Contractor and Architect or Engineer and approved by the City of Petersburg for said extra work, or compensation for actual labor, materials, and equipment rental involved in said work plus the percentage stipulated in the Bid. This percentage shall be sufficient to include all insurance costs, all taxes (including payroll taxes), Social Security, Workmen's Compensation, Old Age Benefits, bonuses, all other overhead cost, and reasonable profit for the General Contractor and any subcontractors involved. The provisions of Paragraph 4.2.5 of the General Conditions shall not be applicable to Paragraph 5.12 and 5.12.1 of the General Conditions.

5.12.1 Whenever changes, alterations, additions, omissions, or revisions are called for by the City of Petersburg through the Architect or Engineer for which the necessary drawings and details have been complete and submitted to the Contractor, or when changes, alterations, additions or omissions are clearly given in writing to the Contractor, he is to submit the proper extra or credit as the case may be and in addition, an itemized statement of quantities and prices incidental to such revisions, changes, additions and omissions to facilitate the checking of the quantities involved.

5.13 **FINAL INSPECTION.** When the work is substantially complete, the Contractor shall notify the City of Petersburg and the Architect or Engineer in writing that the work will be ready for final inspection and test on a definite date which shall be stated in such notice and which shall be at least ten (10) days after such notice. Such notice shall be forwarded through the Architect or Engineer.

5.13.1 If the work is found to be completed in accordance with the requirements of the Contract, the date of completion will be fixed as the date of final inspection rather than the date of receipt of the written request for the final inspection.

5.13.2 If such inspection reveals work not performed in accordance with the requirements of the Contract Documents, or uncompleted work, the Contractor shall be notified in writing and he shall promptly perform the work required. He shall then request a re-inspection which will be made within ten (10) days after receipt of such request. When it has been determined by any re-inspection that the work is complete in accordance with the requirements of the Contract Documents, the date of completion will be fixed as the last day of such re-inspection.

5.14 **GUARANTEE.** The Contractor shall guarantee all the work furnished under this Contract against any defects in workmanship and materials for a period of one year following the date of final acceptance of the work by the City of Petersburg. Under this guarantee, the Contractor hereby agrees to make good without delay, at his own expense, any failure of any part of the work due to faulty materials, construction, or installation, or the failure of any equipment to perform satisfactorily all the work put upon it within the limits of the Contract Documents, and further shall make good any damage to any part of the work caused by such failure. Guarantee period for each feature of the work will begin only after acceptance of the particular feature of the work by the City of Petersburg. Upon failure of the Contractor to do so, such repairs may be made and such defective work replaced by the City of Petersburg at the cost of the Contractor, who hereby contracts to pay the same. It is hereby agreed that the Standard Performance Bond shall fully cover all guarantees contained in this paragraph.

5.14.1 The obligations of the Contractor under this paragraph shall be, in addition to and not in limitation, of any obligations imposed upon him by special guarantees required by the Contract Documents or otherwise prescribed by law.

5.14.2 Prior to the expiration date of Contractor's one-year guarantee period, but not before nine months of this period have lapsed, the using agency, representative of the Department of Public Works and Architect or Engineer will make an inspection of the project to determine whether any defects in materials or workmanship have developed. The Director of the Department of Public Works with copy to the Purchasing Agent will provide the Contractor with written notice of such defects and will notify the Architect or Engineer with advice in the correction of defects. These actions shall be coordinated with the Purchasing Agent.

SECTION 6-PAYMENTS

6.1 **MONTHLY PARTIAL PAYMENTS.** Unless otherwise provided or amended in these General Conditions or Special Provisions, the City of Petersburg will make monthly partial payments to the Contractor for the work performed during the preceding month as determined and approved by the Architect or Engineer.

6.2 **RETAINAGE.** In making partial payments, there shall be retained five percent (5%) on the estimated amount of each until completion and acceptance of all work covered by the Contract.

6.3 **EFFECT OF PARTIAL PAYMENTS.** All materials and work covered by partial payments made shall thereupon become the sole property of the City of Petersburg, but this provision shall not be constructed as relieving the Contractor from the sole responsibility for the safety and protection of all materials and work upon which payments have been made or the restoration or replacement of any damaged or stolen work property, or as a waiver of the right of the City of Petersburg to require the fulfillment of all the terms of the Contract Documents.

6.4 **FINAL PAYMENT.** Neither the final payment nor any part of the retained percentage shall become due until the Contractor delivers to the City of Petersburg through the Architect or Engineer a record set of as-built drawings and specifications and an affidavit of Payment of Claims that all subcontractors and supplies of either labor or materials have been paid any sums due them for work performed or materials furnished in connection with this contract or evidence that satisfactory arrangements have been made by the Contractor with such subcontractors and supplies with respect to the payment of such sums as may be due them by the Contractor.

6.5 **ACCEPTANCE OF FINAL PAYMENT CONSTITUTES RELEASE.** The acceptance by the Contractor of the final payment shall be and operate as a release to the City of Petersburg of all claims of and all liability to the Contractor for all things done or furnished in connection with this work excepting the Contractor's claim for interest upon Final Payment, if this payment be improperly delayed. No certificate for payment issued by the Architect or Engineer and no payment, final or otherwise, or partial or entire use or occupancy of the work by the City of Petersburg, shall be an acceptance of any work or materials not in accordance with the Contract Documents, nor shall the same relieve the Contractor of responsibility for faulty materials or workmanship or operate to release the Contractor or his surety from any obligation under the Contract or the Standard Performance and Payment Bond.

6.6 **ASSIGNMENTS.** Neither party to the Contract shall assign the whole or any parts of the Contract without the written consent of the other, nor shall Contractor assign any monies due or to become due to him hereunder, without the previous written consent of the City of Petersburg.

6.7 **LIENS.** Neither the final payment nor any part of the retained percentage shall become due until the Contractor shall deliver to the City of Petersburg a complete release of all liens arising out of this Contract, or receipts in full, in lieu thereof and, if required in either case, a notarized Lien Affidavit that, so far as he has knowledge or information, the releases and receipts include all the labor and material for which a lien could be filed. The Contractor may, if any subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the Architect or Engineer, for delivery to the City of Petersburg, to indemnify the City of Petersburg against any lien and subject to the approval of the City of Petersburg. If any lien remains unsatisfied after all payments are made, the Contractor shall refund to the City of Petersburg all monies that

the latter may be compelled to pay in discharging such a lien, including all costs and reasonable attorney's fees.

SECTION 7-REMEDIES

7.1 TERMINATION OF CONTRACT BY CITY OF PETERSBURG. If the Contractor is adjudged bankrupt; or if he makes a general assignment of the benefit of his creditors; or if a receiver is appointed on account of his insolvency; or if he refuses or fails to supply enough properly skilled workmen or proper materials; or if he fails to make prompt payment to subcontractors or for materials or labor; or disregards laws, ordinances, rules, regulations or orders of any public authority having jurisdiction; or otherwise is guilty of a substantial violation of any provision of the Contract Documents; then the City of Petersburg, upon certification by the Architect or Engineer as to the facts, may, without prejudice to any right or remedy and after giving the Contractor and his surety, if any, a seven day written notice, terminate the employment of the Contractor and take possession of the site and of all materials, and may finish the work by whatever method he may deem expedient. In such case, the Contractor shall not be entitled to receive any further payment until the work is finished.

7.1.1 If the unpaid balance of the Contract Sum exceeds the costs of finishing the work, including compensation for the Architect's or Engineer's additional services and any and all expenses incurred by the City of Petersburg, such excess shall be paid to the Contractor. If such costs exceed such unpaid balance, the Contractor, or his surety shall pay the difference to the City of Petersburg. The costs incurred by the City of Petersburg as therein provided shall be certified by the Architect or Engineer.

7.1.2 TERMINATION OF CONTRACT BY CONTRACTOR. If the work is stopped for a period of sixty days under an order of any court or other public authority having jurisdiction or as a result of an act of government, such as a declaration of a national emergency making materials unavailable, through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing any of the work under a Contract with the Contractor, or if the work should be stopped for a period of sixty days by the Contractor for the City of Petersburg's failure to make payment thereon as provided in Paragraph 6.2, excepting therefrom only the provisions of Paragraph 4.3.2 and 4.6.6, then the rights of the parties shall be governed by these General Conditions and by the general laws of the Commonwealth of Virginia.

7.2 ROYALTIES AND PATENTS. It is mutually understood and agreed that Contract prices are to include all royalties and costs arising from patents, trademarks, and copyrights in any way involved in the work. Whenever the Contractor is required or desires to use any design, device, material or process covered by letters, patent or copyright, the Contractor shall indemnify and save harmless the City of Petersburg, its officers, agents, and employees from any and all claims for infringement by reason of the use of any such patented design, tool, material, equipment or process to be performed under the Contract, and shall indemnify the said City of Petersburg, its officers, agents, and employees for any cost, expenses and damages which it may be obliged to pay, by reason of any infringement, at any time during the prosecution or after the completion of work.

7.3 LIQUIDATED DAMAGES. Liquidated damages in the amount as set out in the Invitation for Bid and under the provisions contained in these General Conditions shall be withheld by the City of Petersburg and any payment to the Contractor shall be reduced by the full amount of such liquidated damages.

7.4 **PAYMENTS WITHHELD.** The Architect or Engineer may decline to approve or, because of subsequent discovered evidence, nullify the whole or part of any Certificate of Payment to such extent as may be necessary to protect the City of Petersburg from loss on account of:

1. Defective work not remedied.
2. Claims filed or reasonable evidence indicating probable filing of claims against the Contractor.
3. Failure of the Contractor to make payments properly to subcontractors for materials or labor.
4. A reasonable doubt that the Contract can be completed for the balance then unpaid.
5. Damage to another contractor.
6. Failure to provide the Architect as-built drawings and specifications within thirty calendar (30) days from the date of the Certificate of Completion.

7.4.1 When the above grounds are removed to the satisfaction of the Architect or Engineer and the City Attorney of the City of Petersburg, payment shall be made for amount withheld because of them.

SECTION 8-UNIT PRICE (AND/OR LUMP SUM CONTRACTS)

8.1 CONTRACTS FOR STREET WORK, SEWERS, AND WATER MAINS, ETC.

Each Bid shall be submitted upon the prescribed form. All blank spaces for Bid prices must be filled in, in ink, in both words and figures, with the unit or total sum or both for which the Bid is made. In case of any discrepancy in the unit price or amount bid for any item in the Bid, the unit price as expressed in written words will govern.

8.1.1 The unit prices bid will be carefully examined and compared with current values before recommending the award of the Contract. If, in the opinion of the Director of either the department for which work is to be performed or the Purchasing Agent, the unit prices submitted are substantially over or under accepted current values, it will be deemed sufficient reason to recommend rejection of the Bid and further to recommend the award of the Contract to another responsible bidder.

8.2 **QUANTITIES ESTIMATED ONLY.** The bidder's attention is called to the fact that the estimate of quantities of work to be done and materials to be furnished under the specifications, as shown on the drawings or accompanying Bid, is approximate and is given only as a basis of calculation for comparing bids and awarding contracts. The City of Petersburg does not assume any responsibility that the quantities given will obtain in the construction, and reserves the right to increase or diminish the quantities shown or to omit any of them, as it deems necessary. However, after bids are opened and Contract awarded, the City of Petersburg reserves the right to increase or diminish the Contractor's part, not to exceed 25% of the total value of the Contract. If the Contract is increased or diminished, appropriate adjustment will be made in the Contract price.

8.3 **COMPARISON OF BIDS.** Bids will be compared on the basis of a total computed price arrived at by taking the sum of the estimated quantities of each item, multiplied by the corresponding unit prices and including any lump sum bids on individual items in accordance with the estimate of quantities set forth in the Bid Form. Except as noted in this section all other requirements of the General Conditions shall prevail, where applicable.

8.4 CHANGES IN THE WORK AND EXTRAS. The Contractor shall perform at the request of the Architect or Engineer any related work not covered by plans, specifications or unit prices, which may arise during construction on the basis of a lump sum price as negotiated between the Contractor and Architect or Engineer and approved by the City of Petersburg for said extra work.

8.5 EXPLANATIONS TO BIDDERS. No oral explanation in regard to the meaning of drawings and specifications will be made, and no oral instructions will be given before the award of contract. Discrepancies, omissions or doubts as to the meaning of drawings and specifications shall be communicated in writing to the Architect or Engineer for interpretation. Bidders should act promptly and allow sufficient time for a reply to reach them before the submission of their bids. Any interpretation made will be in the form of an addendum to the specifications which will be forwarded to all bidders and its receipt by the bidder shall be acknowledged on Bid Forms. The Architect or Engineer shall make his interpretation and notify the City of Petersburg and all bidders no more than five (5) days from the time of his receipt of a request for interpretation. If this project has been designed by a consultant, architect or engineer, the consultant will be responsible for explanations to bidders. Otherwise, the City of Petersburg will furnish necessary explanations.

8.6 UNCOVERING WORK FOR INSPECTION. If any work has been covered which the Architect or Engineer has not specifically requested to observe prior to being covered, the Architect or Engineer may request to see such work and it shall be uncovered by the Contractor. If such work be found in accordance with the Contract Documents, the cost of uncovering and replacement shall, by appropriate Change Order, be charged to the City of Petersburg. If such work be found not in accordance with the Contract Documents, the Contractor shall pay such costs unless it be found that this condition was caused by separate contractor; and in that event, the City of Petersburg shall pay the Contractor such costs and shall be entitled to recovery of such payment from the separate contractor whose work was found to be not in accordance with the Contract Documents, the actual cost of labor and material necessarily involved in the examination and replacement shall be allowed the Contractor and he shall, in addition, if completion of the work has been delayed thereby, be granted a suitable extension of time on account of the additional work involved. If any work has been covered that the Architect or Engineer has specifically requested to observe prior to it's being covered, the Contractor shall uncover the same and replace it entirely at his expense.

SECTION 9-ARBITRATION AND PAYMENTS

9.1 ARBITRATION.

A. If any dispute, claim, or question arises under the Contract which cannot be settled by the City of Petersburg and the Contractor, the parties will in an effort to arrive at an amicable solution submit the matter to a board of three Arbitrators. One Arbitrator is to be selected by the City of Petersburg and one Arbitrator is to be selected by the Contractor. The two Arbitrators so selected shall select the third Arbitrator.

B. The Contractor shall not cause a delay in the work during the arbitration proceedings, except by agreement with the City of Petersburg.

C. The costs of the arbitration shall be borne equally by the City of Petersburg and the Contractor.

D. Any decision rendered by the Board of Arbitrators shall be advisory only and not binding upon the parties.

9.2 **PAYMENTS BY CONTRACTORS.** Except in cases of bona fide disputes, or where the Contractor has some other justifiable reason for delay, the Contractor shall pay:

- A. For all transportation and utility services not later than the end of the calendar month following that in which the services are rendered;
- B. For all materials, tools and other expendable equipment to the extent of 90% of the cost thereof not later than the end of the calendar month following that in which such materials, tools and equipment are delivered at the site of the project; and
- C. To each of his subcontractors, not later than the end of the calendar month in each payment is made to the Contractor, the representative amount allowed the Contractor on account of the work performed by his subcontractors, to the extent of each subcontractor's interest therein.

9.3 **RIGHTS OF SUBCONTRACTORS AND/OR MATERIAL SUPPLIERS.**

Notwithstanding any other provision of the General Conditions, it is understood and agreed by each and every subcontractor and/or material supplier that no right of any kind whatsoever shall exist to subcontractor and/or material supplier against the City of Petersburg in the event the City of Petersburg fails to pay the contractor for any reason and/or the Contractor fails to pay the subcontractor and/or material supplier for any reason.

SECTION 10-ASBESTOS

10.1 **APPLICATION.** This subsection applies to projects involving existing buildings where asbestos abatement is not a part of the Work. If the Contractor discovers or inadvertently disturbs any material that may contain asbestos that has not been previously identified, that was overlooked during the removal, or which was deemed not to be friable or which was encapsulated, the Contractor shall stop work in the area containing the asbestos, secure the area, and notify the City of Petersburg immediately by telephone or in person with written notice as soon as possible. The City of Petersburg will have the suspect material sampled.

If the sample is positive and must be disturbed in the course of the Work, the City of Petersburg will have the material repaired or removed and will pay for the bulk sample analysis.

If the material disturbed is not within the Contractor's authorized Work and/or Work area or under this Contract, the Contractor will pay for all associated sampling and abatement costs.

10.2 **LICENSED ABATEMENT.** If asbestos abatement is included as a part of Work, the Contractor shall assure that the asbestos abatement work is accomplished by those duly licensed in accordance with the specific requirements of the Contract Documents.

10.3 **INSURANCE.** If asbestos abatement is included as part of the Work, the licensed asbestos Subcontractor shall, in the insurance required, name the City of Petersburg and the Contractor as additional insured.

SECTION 11-TRAINING, OPERATION AND MAINTENANCE OF EQUIPMENT

11.1 **TRAINING OF PERSONNEL**. The Contractor, in conjunction with his Subcontractors and Suppliers, shall provide the City of Petersburg's operations and maintenance personnel with instruction and training in the proper operation and maintenance of the equipment and related controls provided or altered in the Work.

11.2 **MANUALS**. The Contractor shall provide the City of Petersburg with a minimum of two (2) copies of operating, maintenance and parts manuals for all equipment provided in the project. Further specific requirements may be indicated in the specifications.

SECTION 12-DRUG FREE WORKPLACE

During the performance of this contract, the contractor agrees to:

1. Provide a drug-free workplace for the contractor's employees;
2. Post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition;
3. State in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace; and
4. Include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this section, "drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor in accordance with this solicitation, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

SECTION 13-MISCELLANEOUS

13.1 **RESULTING PATENTS AND COPYRIGHTS**. Any patentable discovery, invention, object, system, procedure, or copyright developed in the course of or under this contract shall be the sole property of the City of Petersburg, Virginia.

13.2 **RECORD RETENTION/AUDIT**. The Contractor shall retain, during the performance of the contract, and for a period of three years from the completion of the contract, all records pertaining to the Contractor's proposal and any contract awarded pursuant to the proposal. Such records shall include but not be limited to all paid vouchers including those for out-of-pocket expenses; other reimbursement supported by invoices, including Contractor's copies of periodic estimates for partial payment; ledgers, cancelled checks; deposit slips; bank statements; journals; contract amendments and change orders; insurance documents; payroll documents; timesheets; memoranda; and correspondence. Such records shall be available to the City on demand and without advance notice during the Contractor's normal working hours. City personnel may perform in-progress and post-audits of Contractor's records

13.3 MINORITY and WOMEN-OWNED BUSINESSES. It is the intent of the City of Petersburg to facilitate the establishment, preservation, and small businesses and businesses by women and minorities and to encourage their participation in the City's procurement activities. Toward that end, the City of Petersburg encourages these firms to compete and encourages non-minority firms to provide for participation of small businesses and businesses owned by women and minorities through partnerships, joint ventures, subcontracts, and other contractual opportunities. Bidder(s) are requested to include a statement indicating the planned use of such businesses in fulfilling this contract. If not already on the City's Bidder's Mailing List, you may request application for inclusion on the list. Please contact the Budget and Procurement Office at (804) 733-2345 and request an application, or download one from the City's website www.petersburg-va.org.

13.4 NO DISCRIMINATION AGAINST FAITH-BASED ORGANIZATIONS. The City of Petersburg does not discriminate against faith-based organizations as that term is defined in Section 2.2-4343.1 of the *Code of Virginia of 1950*, as amended.

SECTION 14 – PROTEST PROCEDURES

PROTEST OF AWARD OR DECISION TO AWARD. Any bidder or offeror may protest the award or decision to award a contract by submitting such protest in writing to the Purchasing Agent no later than ten days after public notice of the award or the announcement of the decision to award, whichever occurs first. Public notice of the award or the announcement of the decision to award shall be given by the public body in the manner prescribed in the terms or conditions of the IFB or RFP. Any bidder, offeror, or contractor, or a potential bidder or offeror on a contract negotiated on a sole source or emergency basis who desires to protest the award or decision to award such contract shall submit such protest in the same manner no later than ten (10) days after posting or publication of the notice of such contract as provided. The written protest must be received in the Budget and Procurement Office no later than 5:00 p.m. on tenth day. If the tenth day falls on a weekend or an official holiday, the ten-day period expires at 5:00 p.m. on the next regular workday. However, if the protest of any actual or potential bidder or offeror depends in whole or in part upon information contained in public records pertaining to the procurement transaction, then the time within which the protest must be submitted shall expire ten (10) days after those records are available for inspection by such bidder or offeror, or at such later time as provided in this section. No protest shall lie for a claim that the selected bidder or offeror is not a responsible bidder or offeror. The written protest shall include the basis for the protest and the relief sought. The procuring agency or an official designated by that agency shall issue a decision in writing in ten (10) days stating the reasons for the action taken. This decision shall be final unless the bidder or offeror appeals within ten (10) days of receipt of a written decision by invoking administrative procedures under § 2.2-4365 of the Code of Virginia, if available, or in the alternative by instituting legal action under § 2.2-4364 of the Code of Virginia. Nothing in this subsection (§ 2.2-4364) shall be construed to permit a bidder to challenge the validity of the terms and conditions of the Invitation for Bids or Request for proposals.

If prior to an award it is determined that the decision to award is arbitrary or capricious, then the sole relief shall be a finding to that effect. The agency shall cancel the proposed award or revise it to comply with the law. If, after an award, it is determined that an award of a contract was arbitrary or capricious, then the sole relief shall be as hereinafter provided. Where the award has been made and performance has begun, the agency may declare the contract void upon a finding that this action is in the best interest of the public. Where

a contract is declared void, the performing contractor shall be compensated for the cost of performance up to the time of such declaration. In no event shall the performing contractor be entitled to lost profits (Code of Virginia, § 2.2-4360).

When an agency, an official designated by that agency, or an appeals board determines, after a hearing held following reasonable notice to all bidders, that there is probable cause to believe that a decision to award was based on fraud or corruption the agency-designated official or appeals board may enjoin the award of the contract to a particular bidder (Code of Virginia, § 2.2-4361).

CITY OF PETERSBURG
SCHEDULE OF LIQUIDATED DAMAGES

Original Contract Amount

FROM MORE THAN	TO AND INCLUDING	DAILY CHARGE
\$ 0	\$ 25,000	\$ 50
\$ 25,000	\$ 50,000	\$ 75
\$ 50,000	\$ 100,000	\$ 100
\$ 100,000	\$ 500,000	\$ 150
\$ 500,000	\$ 1,000,000	\$ 200
\$ 1,000,000	\$ 2,000,000	\$ 300
\$ 2,000,000	\$ 4,000,000	\$ 600
\$ 4,000,000	ABOVE	\$ 1000

CONTRACT

This contract, made this _____ day of _____ 20____ between the City of Petersburg, Virginia hereinafter referred to and designated as "City", and

Or his, its or their successor, executors, administrators and assigns, hereinafter referred to and designated as "Contractor";

WITNESSETH: That the said Contractor agrees with the said City, for the Consideration herein mentioned, and at his, it's or their own proper cost and expense to do all the work and furnish all the materials, equipment and labor necessary to carry out this agreement in the manner and to the full extent as set forth in the Invitation For Bid, specifications, general and special provisions, proposal, plans and drawings, and all documents referred to, and under security as set forth in the attached contract bond, which are hereby adopted and made part of this agreement as completely as if incorporated herein, and to the satisfaction of the City of Petersburg, who shall have at all times full opportunity to inspect the materials to be furnished and the work to be done under this agreement.

It is agreed that the work to be done under this contract is to _____

in accordance with the Invitation For Bid, specifications, general and special provisions and conditions, proposals, plans and drawings and all documents referred to.

In consideration of the foregoing premises, the City agrees to pay the Contractor for all items of work performed and materials furnished at the unit prices and/or lump sum bid and under the conditions set forth in accompanying Invitation For Bid.

Contractor's Signature:	City of Petersburg:
BY: _____	BY: _____
Signature	Signature
_____ Printed Name	_____ Printed Name
_____ Date	_____ Date

Approval Recommended:

Director of Budget and Procurement
f/Purchasing Agent

Approved As to Form:

City Attorney

CITY OF PETERSBURG, VIRGINIA
STANDARD PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That _____, the Contractor ("Principal") and _____ ("Surety") whose address for delivery of Notices is located at _____, are held and firmly bound unto the City of Petersburg, Owner ("Obligee") in the amount of _____ Dollars (\$ _____) for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated _____, _____ entered into a contract ("Contract") with Obligee for certain work ("Work") on a project known as _____, which contract is by reference expressly made a part hereof;

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the Principal shall promptly and faithfully perform said contract in strict conformity with the plans, specifications and conditions of the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

Provided, that any alterations which may be made in the terms of the Contract, or the Work to be done under it, or the giving by the Obligee of any extension of time for the performance of the Contract, or any other alterations, extensions or forbearance on the part of either or both of the Obligee or the Principal to the other shall not in any way release the Principal and the Surety, or either of them, their heirs, executors, administrators, successors or assigns from their liability hereunder, notice to the Surety of any such alterations, extensions, or forbearance being hereby waived.

No action shall be brought on this bond unless brought within one (1) year after: (a) completion of the Contract and all Work there under, including expiration of all warranties and guarantees, or (b) discovery of the defect or breach of warranty or guarantee if the action be for such.

The Surety represents to the Principal and to the Obligee that it is legally authorized to do business in the Commonwealth of Virginia.

Signed and sealed this _____ day of _____, 20_____.

Witness

Contractor / Principal (SEAL)

By: _____
Typed name: _____
Title: _____

Surety (SEAL)

By _____
Attorney-in-Fact
Typed name: _____

Approved as to form:

City Attorney

AFFIDAVIT AND ACKNOWLEDGMENT OF ATTORNEY-IN-FACT

COMMONWEALTH OF VIRGINIA
CITY or COUNTY of _____

I, the undersigned Notary Public, do certify that _____, whose name is signed to the foregoing standard performance bond and which names the City of Petersburg, as Obligee, personally appeared before me today in the above jurisdiction and made oath that he/she is the attorney-in-fact of _____, a corporation which is the Surety in the foregoing bond, that he/she is duly authorized to execute on the above Surety's behalf the foregoing bond pursuant to the Power of Attorney noted above and attached hereto, and on behalf of the surety, he/she acknowledged the foregoing bond before me as the above Surety's act and deed.

He/she has further certified that his/her Power of Attorney has not been revoked.

Given under my hand this _____ day of _____.

Notary Public
Registration Number: _____
My Commission Expires: _____

Attach the POWER OF ATTORNEY

NOTE: Date of Bond must not be prior to date of Contract. Use legal name of Contractor, being an individual, partnership, or corporation, as the case may be. If the Contractor is a Partnership, all partners shall execute the Bond.

CITY OF PETERSBURG, VIRGINIA
STANDARD LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

That, _____ the Contractor ("Principal") and _____ ("Surety") are held and firmly bound unto the City of Petersburg, Virginia, the Owner ("Obligee") in the amount of _____ Dollars (\$ _____) for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated _____, _____ entered into a Construction Agreement with Obligee for certain work ("Work") on a project known as _____, which contract ("Contract") is by reference expressly made a part hereof;

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the Principal shall promptly make payment to all claimants as hereinafter defined, for labor performed and material furnished in the prosecution of the Work provided for in the Contract and its Contract documents, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions.

The Principal and Surety, jointly and severally, hereby agree with Obligee as follows:

1. A claimant is defined as one having a direct contract with the Principal or with a subcontractor of the Principal for labor, material, or both for use in the performance of the Contract. A "subcontractor" of the Principal, for the purposes of this bond only, includes not only those subcontractors having a direct contractual relationship with the Principal, but also any other contractor who undertakes to participate in the Work which the Principal is to perform under the aforesaid Contract, whether there are one or more intervening subcontractors contractually positioned between it and the Principal (for example, a subcontractor). "Labor" and "material" shall include, but not be limited to, public utility services and reasonable rentals of equipment, but only for periods when the equipment rented is actually used at the Work site.
2. Subject to the provisions of paragraph 3, any claimant who has performed labor or furnished material in accordance with the Contract documents in the prosecution of the Work provided in the Contract, who has not been paid in full therefore before the expiration of ninety (90) days after the day on which such claimant performed the last of such labor or furnished the last of such materials for which he claims payment, may bring an action on this bond to recover any amount due him for such labor or material, and may prosecute such action to final judgment and have execution on the judgment. The Obligee need not be a party to such action and shall not be liable for the payment of any costs, fees or expenses of any such suit.
3. Any claimant who has a direct contractual relationship with any subcontractor of the Principal from whom the Principal has not required a subcontractor payment bond, but who has no contractual relationship, express or implied, with the Principal, may bring an action on this bond only if he has given written notice to the Principal within one hundred eighty (180) days from the day on which the claimant performed the last of the labor or furnished the last of the materials for which he claims payment, stating with substantial accuracy the amount claimed and the name of the person for whom the work was performed or to whom the material was furnished. Notice to the Principal shall be served by registered or certified mail, postage prepaid, in an envelope addressed to the Principal at any place where his office is regularly maintained for the transaction of business. Claims for sums withheld as retainages with respect to labor performed or materials furnished shall not be subject to the time limitations stated in this paragraph 3.
4. No suit or action shall be commenced hereunder by any claimant, unless brought (a) within one year after the day on which the person bringing such action last performed labor or last furnished or supplied materials, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof, the limitation embodied within this bond shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law, and (b) in other than in a Virginia court of competent jurisdiction, with venue as provided by statute, or in the United States District Court for the district in which the project, or any part thereof is situated.
5. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith

hereunder.

6. This bond is intended to comply with the requirements and to afford all the benefits of a payment bond consistent with the requirements of *Virginia Code of 1950*, as amended § 2.2-4337 and § 2.2-4341. To the extent that those sections as they are in effect as of the date of issuance of this bond confer any requirements on Principal or Surety, or confer any additional benefits on any claimant (as the term "claimant" is used within either the meaning of those sections or this bond), those requirements and benefits shall be deemed to be incorporated into and be part of this bond.

Signed and sealed this _____ day of _____, 20_____.

Contractor / Principal (SEAL)

By: _____
Typed name: _____
Title: _____

Witness

Surety (SEAL)

Approved as to form:

By:

City Attorney

Attorney-in-Fact
Typed name: _____

AFFIDAVIT AND ACKNOWLEDGMENT OF ATTORNEY-IN-FACT

COMMONWEALTH OF VIRGINIA

CITY or COUNTY of _____

I, the undersigned Notary Public, do certify that _____, whose name is signed to the foregoing standard labor and material payment bond and which names the City of Petersburg, as Obligee, personally appeared before me today in the above jurisdiction and made oath that he/she is the attorney-in-fact of _____, a corporation which is the Surety in the foregoing bond, that he/she is duly authorized to execute on the above Surety's behalf the foregoing bond pursuant to the Power of Attorney noted above and attached hereto, and on behalf of the surety, he/she acknowledged the foregoing bond before me as the above Surety's act and deed.

He/she has further certified that his/her Power of Attorney has not been revoked.

Given under my hand this _____ day of _____.

Notary Public
Registration Number: _____
My Commission Expires: _____

Attach the POWER OF ATTORNEY