City of Staunton, Virginia

MS4 ANNUAL REPORT

For the Virginia Stormwater Management Program General Permit Registration Statement for Small Municipal Separate Storm Sewer Systems (MS4)

General Permit No. VAR040132

Reporting Period: Permit Year 6
July 1, 2018 through June 30, 2019

Certification

CERTIFICATION STATEMENT

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.

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Signature: _____

Date: 9-30-19

Permit Number: VAR040132

MS4 Name: City of Staunton

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INTRODUCTION

Discharges from municipal separate storm sewer systems are regulated under the Virginia Stormwater Management Act, the Virginia Stormwater Management Program (VSMP) Permit regulations and the Clean Water Act as point source discharges. MS4 regulations were developed and implemented in two phases. Implementation of the first phase began in the early 1990s and required that operators of MS4s serving populations of greater than 100,000 people (per the 1990 decennial census) apply for and obtain a permit to discharge stormwater from their outfalls. The second phase of MS4 regulations became effective March 23, 2003, and required that operators of small MS4s in "urbanized areas" (as defined by the latest decennial census) obtain a permit to discharge stormwater from their outfalls.

In August 2013, the City of Staunton received a Notice of Designation as a regulated small MS4. Part of the City's jurisdiction had been identified as being located within an urbanized area according to the 2010 Decennial Census. As a result, the City must apply for and maintain coverage under the General Permit for the Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems. Similar to the Phase I programs, small MS4 programs must be designed and implemented to control the discharge of pollutants from their storm sewer system to the maximum extent practicable in a manner that protects the water quality in nearby streams, rivers, wetlands and bays.

On May 16, 2018, the City of Staunton submitted a Registration Statement outlining the City's MS4 Program to the Department of Environmental Quality (DEQ). On November 1, 2018, the City received notification from DEQ that the City had obtained continuing coverage under the General VPDES Permit for Small MS4s. Coverage under the Virginia General Permit for Discharges from Small Municipal Storm Sewer Systems requires each MS4 locality to submit an annual report by October 1 of each year describing the status of the Program's implementation for the previous permit year, July 1 through June 30.

Stormwater discharges from Phase II (small) MS4s are regulated under the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems. Small MS4s include storm sewer systems operated by cities, counties, towns, federal facilities such as military bases, Veteran's Affairs hospitals and research facilities, Department of Defense facilities and parkways, and state facilities such as VDOT, community colleges and public universities. Under the General Permit, small MS4s must develop, implement and enforce a program that includes the following "six minimum control measures":

- Public education and outreach on stormwater impacts
- Public involvement and participation
- Illicit discharge detection and elimination
- Construction site stormwater runoff control
- Post-construction stormwater management in new development and redevelopment
- Pollution prevention/good housekeeping for municipal operations

Activities within each of the control measures are called Best Management Practices or BMPs.

This document is the City of Staunton's required Annual Report for Permit Year 6. Permit Year 6 is the period starting on July 1, 2018 and ending on June 30, 2019. The annual report includes the statues of the BMPs implemented as part of the City's MS4 Program Plan. The annual report lists the measurable goals and the accomplishments achieved for each BMP. The annual report also includes any changes to the City's MS4 Program Plan.

ABOUT STAUNTON

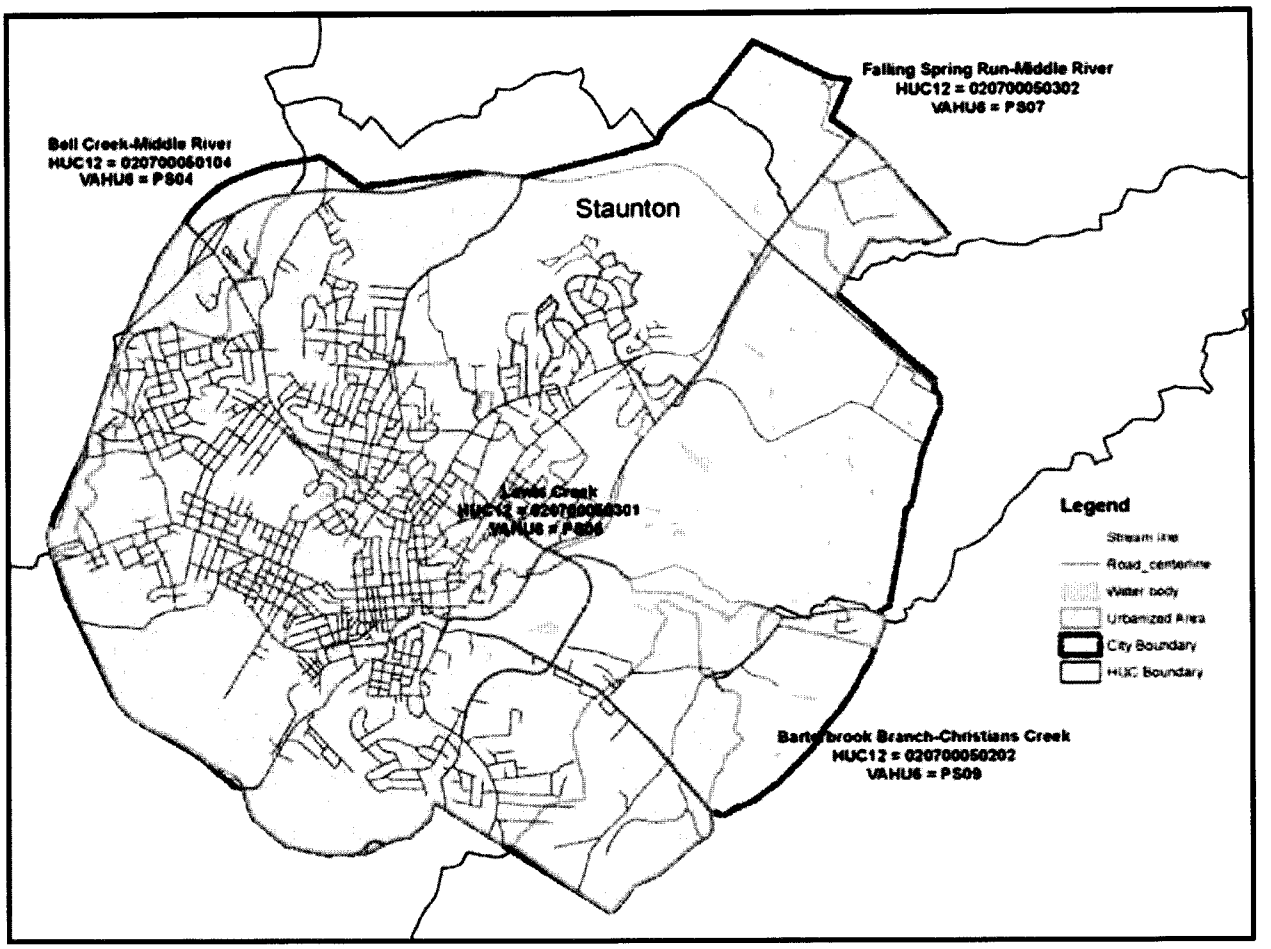
Located in the historic Shenandoah Valley, Staunton was first settled in 1732. The hamlet was named in honor of Lady Staunton, wife of Sir William Gooch who served as lieutenant-governor of Virginia from 1727 to 1749. The Virginia General Assembly established Staunton as a town in 1761.

Staunton, unique among cities for its natural beauty and architectural heritage, provides an excellent quality of life for its unified community by continuing the tradition of citizen leadership, innovation, and perseverance. The best of its history combined with the best new ideas and technology make Staunton an exceptional small City with charm, energy, ambiance, and creativity that others seek to emulate.

Today, Staunton is an independent City with a population of 24,512 as of 2010 census, located within Augusta County. Staunton is approximately 19.7 square miles in size. The urbanized area within the City of Staunton is 13.2 square miles as identified in Figure 1. This urbanized area represents a portion of the Staunton-Waynesboro Metropolitan Statistical Area, as defined by the Office of Management and Budget, which had a population of 118,502 as of the 2010 census.

The City of Staunton lies within four (4) major watersheds. The hydrologic unit codes (HUC) are the following:

Name	HUC 12	VAHU6
➢ Lewis Creek	020700050301	PS06
➢ Christians Creek/Barterbrook Branch	020700050202	PS09
➢ Middle River/Falling Spring Run	020700050302	PS07
➢ Middle River/Bell Creek	020700050104	PS04


Falling Spring Run-Middle River
HUC12 = 020700050302
VAHU6 = PS07
Bell Creek-Middle River
HUC12 = 020700050104
VAHU6 = PS04
Staunton
Legend
Stream line
Road_centerline
Water body
Urbanized Area
City Boundary
HUC Boundary
Barterbrook Branch-Christians Creek
HUC12 = 020700050202
VAHU6 = PS09
Figure 1

MS4 PROGRAM

Minimum Control Measure 1 – Public Education and Outreach

The public education and outreach (PE&O) BMPs will be a critical component of City's MS4 program. The PE&O program will help the citizens of the community better understand the environmental challenges that they are facing as a community. This new knowledge will encourage the community as a whole to implement changes in their lifestyles that will reduce the negative impacts their daily choices have on the environment. Additionally, this program empowers the citizens to become part of the stormwater solution by developing an understanding of program goals and providing a variety of ways to communicate observed issues to the program administer.

The PE&O BMP will focus on the following high priority areas:

- Waste/Pollution Management was selected due to the immediate impact to the community. The City of Staunton spends significant resources every year to clean streets, maintain BMP's, and to facilitate better water quality for the community.
- Watershed Awareness was selected to bring awareness to the importance of caring for and maintaining the quality of the City's watersheds and how the City's watersheds being located at the headwaters affect downstream watersheds and ultimately the Chesapeake Bay.
- Chesapeake Bay and local waterway nutrient impacts was chosen to increase citizen understanding and support for the City's nutrient reduction efforts. The City will be required to dedicate significant resources on the reduction of nutrients to address TMDL's. Resource allocation will be restricted without significant community support.

Modifications to MCM 1:

Date: August 22, 2019

A copy of the educational brochure, "Staunton's Solutions for Stormwater Pollution, Issue Number IV", has been included in Appendix A.

BMP – 1.1 School Presentations (Category - Speaking Engagements)

The City will continue to develop targeted presentations to school age children in grades 4 through 9. The presentations will be age appropriate with the goal to build on past presentations in future years. Presentations will include interactive tools to help better understand the effects of water pollution and strategies for prevention as they relate to the City's high priority topics.

Objective and Expected Results: By targeting grades 4 through 9, the City will be providing these children with the required information to foster stormwater awareness that will translate into long lasting positive changes toward stormwater issues.

Implementation Schedule: The City will continue to provide the presentations throughout the permit cycle. The City will target 4 to 6 presentations per year. The Engineering Division will be responsible for developing and giving the presentations.

Method to Determine Effectiveness: The measure for this BMP will be based on the total number of presentations per year and the total number of students. The annual report will include these numbers.

Annual Reporting: The audience for Permit Year 6 was based on the number of students in the 6th and 9th grades attending the presentations. After consulting with school officials, 6th and 9th grades present the best opportunity to accommodate stormwater topics within their curriculum.

The Engineering Department also participated in Staunton's Earth Day activities on April 13, 2019. The audience reached total, includes the number of elementary school age children that visited the City's Earth Day presentations.

School Presentations:

Permit Year 6	Number of Presentations	Number of Students
July 1, 2018 - June 30, 2019	9	452

BMP – 1.2 Waste Awareness Brochures (Category - Written Materials)

The City will develop educational brochures to provide information in an easy to read format. The brochures will concentrate on the high priority topics. In keeping the topics open to all high priority areas, the City will have the flexibility to modify the Program from one topic to another as priorities change from one year to the next. Each brochure will include information about the topic, identify desirable changes in behavior and provide contact information for questions and reporting. The educational brochures will be made available through mass mailings and at various City offices and community events.

Objective and Expected Results: By distributing educational brochures to the citizens, the City will be raising the general awareness of stormwater issues as well as providing actions the public can take to help protect water quality and minimize impacts to stormwater runoff.

Implementation Schedule: Waste brochures will continue to be developed and distributed throughout the permit cycle. The Engineering Division will be responsible for the brochure's content and distribution.

Method to Determine Effectiveness: The effectiveness of this BMP will be based on the total number of brochures distributed. The annual report will include this number.

Annual Reporting: The brochure was distributed city-wide by inserting the brochures into the City's water and sewer bills and by placing copies of the brochures at various locations throughout the City. A copy of the brochure has been included in Appendix A.

Waste Awareness Brochures:

Permit Year 6	Number of Brochures Distributed
July 1, 2018 - June 30, 2019	12,247

BMP – 1.3 Watershed Awareness (Category - Electronic Media)

The City has developed internet social media material to provide information in an easy to share format. The material concentrates on the topic of "Watershed Awareness". This topic was chosen in order to bring awareness to the importance of caring for and maintaining the quality of the City's watersheds and how the City's watersheds, located at the headwaters affect downstream watersheds and ultimately the Chesapeake Bay. In keeping the social media format general, it will allow the City to have the flexibility to incorporate multiple types of social media outlets, i.e., Facebook, YouTube, etc. as priorities change and opportunities arise from one year to the next. Each post will include resources and information in regards to Staunton's watersheds and their impact on a local and state environmental well-being, identify desirable changes in behavior and provide contact information for questions and reporting. The material will be made available through social media posts through a public, City-run social media format.

Web link to the City's Facebook page:
https://www.facebook.com/stauntonstormwater

Objective and Expected Results: By using social media to reach citizens, the City will be raising the general awareness of the stormwater issues concerning watersheds, both locally and at the state level. The material will also provide actions the public can take to help protect water quality and minimize impacts to stormwater runoff.

Implementation Schedule: The Watershed Awareness social media material will continue be developed and posted throughout the permit cycle. The Engineering Division will be responsible for the social media material and its distribution.

Method to Determine Effectiveness: The effectiveness of this BMP will be based on the total number of website hits. The annual report will include this number.

Annual Reporting: The estimated target audience reached was calculated using Facebook's publishing tools and using audience details such as City of Staunton, Environmentalism, and based on the total number of hits, likes, and reaches on the Facebook page.

Watershed Awareness Social Media:

Permit Year 6	Number hits/likes/reaches
July 1, 2018 - June 30, 2019	10,264

Minimum Control Measure 2 – Public Involvement / Participation

The public involvement/participation (POP) BMP will promote valuable input and assistance from the community. Providing the public opportunities to play an active role in the program is instrumental in a successful program. By promoting the availability of the program to the community, public participation will increase leading to a reduction in stormwater pollutants and improved water quality.

Web link to the MS4 Program and annual reports
https://www.ci.staunton.va.us/departments/engineering-division/ms4-program

Modifications to MCM 2: None this permit year

BMP – 2.1 Stormwater Webpage

The City has a dedicated stormwater webpage which provides detailed stormwater information to the public. The stormwater webpage can be found on the City website at the address above. Information available on the webpage includes: definitions of common stormwater elements (i.e. stormwater, watershed, Chesapeake Bay, pollution prevention, etc.), details about why stormwater is important, identification of how citizens can help, links to the City's stormwater program elements (Ordinances, erosion & sediment control, policies, design standards, general permit, annual reports, etc.), links to Federal and State stormwater program information and contact information for reporting and questions.

Objective and Expected Results: The objective of the dedicated website is to provide large amounts of detailed federal, state and local program information, accessible to a large number of citizens. The expected result is to easily be able to search for and find detailed information on stormwater in general as well as information pertaining to the City of Staunton's MS4 Program. The website also provides Citizens with information on how to comment on the City's MS4 program plan, report erosion/sediment control issues, illicit discharges, and stormwater related complaints.

Implementation Schedule: The City has implemented the website and will maintain the website by adding the annual reports and updating the site's content and links. The Engineering Division will be responsible for the page's content and will advise the webmaster of all required changes.

Method to Determine Effectiveness: The effectiveness of this BMP will be based on the total number of website hits that occur each year. The annual report will include this number.

Web links to the City's Stormwater Webpages:

https://www.ci.staunton.va.us/departments/engineering-division

Annual Reporting:

Stormwater Webpage:

Permit Year 6	Number of Website Hits
July 1, 2018 - June 30, 2019	1490

BMP – 2.2 Tree Planting Program (Restoration)

The City currently has a Tree Planting Program where new trees are planted, dead or diseased trees are replaced with new plantings and structural pruning is performed on young existing trees. The City also organizes and participates in an Arbor Day/Earth Day event where seedlings are handed out to participants. The City will continue its tree planting program and its participation in the Arbor Day/Earth Day event. The City will hand out seedlings and educational brochures and discuss the benefits of tree planting on water quality.

Objective and Expected Results: Encourage the community to actively take part in stormwater enhancements. Raise the general awareness of stormwater issues as well as discussing actions, such as tree planting, the public can take to help protect water quality and minimize impacts to stormwater runoff.

Implementation Schedule: The City will continue its Tree Planting Program and participating in the Arbor Day/Earth Day event. Parks and Recreations will continue to be responsible for these programs.

Method to Determine Effectiveness: The effectiveness of this BMP will be based on the total number of trees planted, the number of trees pruned, the number of participants and the number of seedlings handed out at the Arbor Day/Earth Day event. The annual report will include these numbers.

Annual Reporting:

Tree Planting Program

Permit Year 6	Number of trees planted	Number of trees pruned	Number of Arbor Day participants	Number of seedlings distributed
July 1, 2018 - June 30, 2019	53	352	90	200

BMP – 2.3 DEQ/DCR Adopt-A-Stream Program (Restoration)

The City actively participates in the Virginia Adopt-A-Stream program. The Stormwater Webpage includes links to Virginia's program with directions on how to apply. The City will procure and house the needed material for volunteers to use during the clean-up event. Materials will include safety information, trash bags, safety vests and traffic control-warning signs. The City will also coordinate trash pick-up if needed.

Objective and Expected Results: Encourage the community to actively take part in stormwater enhancements while improving stream quality.

Implementation Schedule: The City continues to implement the Adopt-A-Stream program. The Engineering Division is responsible for the website's content and for coordinating supplying volunteers with the available materials.

Method to Determine Effectiveness: The effectiveness of this BMP will be based on the total linear feet of stream adopted. The annual report will include this number.

Annual Reporting: No streams were adopted during Permit Year 6. The City plans to utilize our social media accounts to hopefully gain more interest in this BMP.

The City organized and participated in a Clean the Bay Day event on June 1, 2019. During this event, 23 volunteers walked approximately 0.45 Miles of Asylum Creek and adjoining City Streets and collected approximately 90lbs of debris from our local waterway. The City plans to build on and expand this event in upcoming permit years.

BMP – 2.4 Adopt-A-Street Program (Restoration)

The City currently has an Adopt-A-Street Program that is designed to provide an opportunity for citizens and civic groups to get involved in their community. Individuals, organizations or businesses may participate. These groups agree to adopt a street and to keep the designated area cleared of litter and other debris. In exchange, the program participants are given materials to help them with the cleanup. Signs bearing the name of their organization will be posted at the beginning of their designated cleanup areas. Areas may include City streets,

vacant lots, walkways and public parking lots. The Stormwater Webpage includes links to the City's program.

Objective and Expected Results: Encourage the community to actively take part in stormwater enhancements by decreasing the trash and litter that could possibly reach a waterway.

Implementation Schedule: This program will be ongoing with Public Works continuing to be responsible for its implementation.

Method to Determine Effectiveness: The effectiveness of this BMP will be based on the total miles of street adopted. The annual report will include this number.

Annual Reporting: No streets were adopted during Permit Year 6. The City plans to utilize our social media accounts to hopefully gain more interest in this BMP

Adopt-A-Street Program:

Permit Year 6	Total miles of street adopted
July 1, 2018 - June 30, 2019	0.00

BMP – 2.5 Stormwater Partnerships (Monitoring)

The City has established a partnership with the local environmental advocacy group, the Lewis Creek Watershed Advisory Committee. The partnership will ensure that local impaired waters and pollutants of concern are emphasized in education and outreach efforts.

Objective and Expected Results: To ensure the education, outreach efforts, and volunteer opportunities are enhanced to the maximum extent possible by a coordinated effort.

Implementation Schedule: The Engineering Division will continue to send a representative to committee meetings during the upcoming permit cycle.

Method to Determine Effectiveness: The effectiveness of this BMP will be based on the total number of meetings that were attended. The annual report will include this number.

Annual Reporting:

Stormwater Partnerships

Permit Year 6	Total Number of Meeting Attended
July 1, 2018 - June 30, 2019	11

BMP – 2.6 Hazardous Waste Collection Day (Disposal/Collection Event)

The City will continue to participate in the regional household hazardous waste collection day. The event is held once a year in the fall at the Augusta County Government Center. The following types of waste are accepted; solvents, oil based paints, fuels, used oil, computer equipment, lead-acid batteries, rechargeable batteries, herbicides/pesticides, small electronics, antifreeze, compact fluorescent bulbs, and fluorescent bulbs. Information about the event will be made available on the stormwater website. The City will also continue to promote this BMP by sharing informational flyers prior to the event.

Objective and Expected Results: By actively promoting the hazardous waste collection day, the City will reduce the risk of improper storage, disposal and discharges within the MS4.

Implementation Schedule: The program is ongoing. Public Works will continue to be responsible for coordinating the informational flyer.

Method to Determine Effectiveness: The City will track the total number of City vehicles dropping off hazardous waste. The annual report will include this number.

Annual Reporting:

Hazardous Waste Collection Day

Permit Year 6	Total Number of City Vehicles
July 1, 2018 - June 30, 2019	73

Minimum Control Measure 3 – Illicit Discharge Detection and Elimination

For the purposes of this permit, an illicit discharge is defined as any discharge to a municipal separate storm sewer that is not composed entirely of storm water, with the exceptions for those pursuant to any other VSMP permit. These discharges can have immediate and long lasting impacts to the ecosystem of your local water bodies.

Modifications to MCM 3: None this permit year

BMP – 3.1 IDDE Detection Program

The City will update and maintain the IDDE Program to detect, identify and address unauthorized discharges. The program will use maintained and updated storm sewer mapping with all outfalls identified. The mapping system will be used to screen for illicit discharges. The dry weather screening element of the program includes:

- Prioritized screening schedule
- Perform a minimum 50 field screenings per year
- Methodologies to collect general information such as the date of last rain, quantity of rain, visual observations, etc.
- Defines the time frame to conduct investigations based on priorities
- Methodologies to determine the source of all illicit discharges
- Mechanisms to eliminate illicit discharges, including procedures for legal action
- Methods for follow up
- Mechanisms to track all investigations

The City will prohibit non-stormwater discharges into the storm sewer system through modifications to the ordinance. The stormwater webpage, and stormwater hotline will be used to promote and facilitate public reporting of illicit discharges. A copy of the program has been included in Appendix K.

Objective and Expected Results: The goal of this control measure is to maintain, update, and enforce a program to detect, identify and address illicit discharges into City's regulated MS4 system.

Implementation Schedule: The City will maintain and implement the IDDE program throughout the permit cycle. Engineering is responsible for implementing the program with support from Public Works for investigations. The Engineering Division is responsible for ongoing maintenance of the storm sewer mapping.

The illicit discharge ordinance, City of Staunton City Code, Title 13, Division IV, Illicit Discharge and Connections, can be found at: http://www.codepublishing.com/VA/staunton.html

Physical interconnection letters have been sent to VDOT and Augusta County during Permit Cycle 1, Year 2.

Method to Determine Effectiveness: The City will track the number of illicit discharges detected and enforcement actions. The annual report will include these numbers.

Annual Reporting: During Permit Year 6, 53 MS4 regulated outfalls were screened. No active illicit discharges were observed or required follow-up. Further documentation of the outfall screenings and reports of illicit discharges are available upon request. A summary of all illicit discharge reports and investigations has been included in Appendix B.

Mapping updates continued during Permit Year 6 to add/delete regulated outfalls as necessary, and currently there are 353 regulated outfalls. An outfall/points of discharge map has been included in Appendix C. Further documentation of the outfalls and points of discharge is available upon request.

BMP – 3.2 Mapping of Stormwater Network

The City will continue to maintain an accurate storm sewer system mapping and information table for City owned stormwater facilities using GIS and GPS locating technologies. Information to be collected and maintained includes:

- Outfalls
- Natural Streams
- Structural stormwater BMPs type and location
- Storm sewer type and size

The storm sewer map will include at least the following:

- Location of all MS4 outfalls
- A unique identifier for each outfall
- The name of location of all waters receiving discharges from MS4 outfalls and the associated HUC (6^{th} order)

The associated information table for each outfall will include at least the following:

- A unique identifier
- The estimated MS4 acreage served
- The name of the receiving water and indication if the receiving water is impaired
- The name of any applicable TMDL(s)

Objective and Expected Results: The storm sewer mapping will be a critical element of the IDDE (BMP 3.1) and structural BMP maintenance (BMP 5.2) programs. Accurate and up-to-date mapping will be necessary for these programs to succeed.

Implementation Schedule: The City will continue to maintain the storm sewer mapping throughout the duration of the permit cycle. Engineering will be responsible for developing and maintaining the sewer mapping using GIS/CAD.

Method to Determine Effectiveness: The City will track the number of storm structures mapped. The annual report will include these numbers.

Annual Reporting:

Mapping of Stormwater Network

Permit Year 6	Total number of storm sewer structures	Total number of storm sewer outfalls
July 1, 2018 - June 30, 2019	2747	749

BMP – 3.3 SPCC Training

The City will continue to provide personnel with spill prevention control and counter measure training. The plan specifies material handling procedures and storage requirements and identifies spill cleanup procedures for areas and processes in which spills may potentially occur.

Objective and Expected Results: The SPCC training attempts to standardize operating procedures and employee training toward the goal of minimizing accidental pollutant release that could contaminate storm water runoff.

Implementation Schedule: The SPCC training is a current policy that will continue to be implemented throughout the permit cycle. Each department, Engineering, Public Works, Parks & Recreation and Fire Department will continue to be responsible for their departmental SPCC training.

Method to Determine Effectiveness: The City will track the number of personnel trained. The annual report will include this number.

Annual Reporting:

SPCC Training

Permit Year 6	Total number of City personnel trained	Department	Training Date
July 1, 2018 - June 30, 2019	10	Public Works	8/16/2018
	10	Public Works	10/18/2018
	9	Public Works	12/13/2018
	9	Public Works	2/18/2019
	12	Parks & Rec	7/23/2018
	54	Fire Department	8/6/2018 thru 8/8/2018

Minimum Control Measure 4 – Construction Site Runoff Control

Uncontrolled stormwater runoff from construction sites can significantly impact rivers, lakes and estuaries. Sediment is the main pollutant of concern leaving a construction site. However, there are also other pollutants that commonly discharge from construction sites, including fertilizer, pesticides, oil and grease, concrete truck washout and construction debris. The construction site stormwater runoff control (CSSRC) BMP will be developed to significantly reduce or eliminate construction site pollutants from entering the local water bodies.

Modifications to MCM 4: None this permit year

BMP – 4.1 Erosion and Sediment Control Program (VESCP)

The City administers an existing program that applies to large sites as well as single family home construction. The Engineering Division reviews site plans and performs site inspections. Any commercial site and any disturbance over 10,000 square feet require an erosion and sediment control plan to be submitted and approved. The City issues a land-disturbance permit prior to any land-disturbance taking place. A pre-construction meeting is held to discuss VESCP controls and to review the plan. A City VESCP inspector also makes site visits and approves the initial controls installed. The program is enforceable through the City Code (Chapter 13). The City has 1 certified VESCP Program Administrator, 2 certified VESCP inspectors and 2 VESCP certified plan reviewers.

The legal authorities utilized by the City to ensure compliance with our VESCP and VSMP Programs include the following:

- Staunton City Code - Title 13
- City's Subdivision and Zoning Ordinance
- Virginia Erosion and Sediment Control Law and Regulations
- Virginia Stormwater Management Act and Regulations

Additional information concerning the City's Erosion and Sediment Control Program (VESCP) can be found at: https://www.ci.staunton.va.us/departments/engineering-division/erosion-and-sediment-control-program

Written procedures and policies for plan review, inspection and enforcement can be found at: http://www.codepublishing.com/VA/staunton.html and https://www.ci.staunton.va.us/government/permits

Objective and Expected Results: The City's VESCP is in place to prevent adverse impacts from erosion and sedimentation from all construction sites.

Implementation Schedule: The VESCP is an existing program and will continue to be implemented throughout the permit cycle. Engineering will continue to be responsible for the VESCP.

Method to Determine Effectiveness: A number of parameters will be tracked pertaining to the VESCP including; number of land disturbing activities, acres of land disturbed, number of inspections, and enforcement actions. The annual report will include these values.

Annual Reporting:

Erosion and Sediment Control Program (VESCP)

Permit Year 6	Permits	Total	Commercial sites	Single-family sites
July 1, 2018 - June 30, 2019	Total number of regulated land-disturbing activities	102	16	86
	Total number of acres disturbed	102.88	82.94	19.95
	Total number of inspections conducted	1277	223	1054

	Enforcement	Total	Notices to Comply	Stop Work Orders
	Total number of enforcement actions taken	473	317	156

Minimum Control Measure 5 – Post Construction Runoff Control

Post-construction stormwater impacts are increases in the type and quantity of pollutants entering the receiving streams. An increase in the quantity of runoff can cause stream bank scouring and downstream flooding. Implementing a combination of structural and non-structural BMPs can reduce the water quality effects of increased impervious areas and are crucial elements of MS4 programs. Procedures need to be developed and implemented to inspect and maintain all permanent structural BMPs for both City and privately maintained facilities.

Modifications to MCM 5: None this permit year

BMP – 5.1 Require VSMP Permits

The City became a VSMP Authority on July 1, 2014, responsible for administration of our local VSMP Program in accordance with Commonwealth of Virginia regulations. The City will require a VSMP permit for land disturbances of 1 acre or greater and land disturbances less than 1 acre but part of a common plan of development 1 acre or greater. Evidence of permit coverage from DEQ will be required prior to any land-disturbance taking place. The City Engineering Division is responsible for BMP 5.1 and employs 1 certified VSMP Program Administrator, 2 certified VSMP inspectors and 1 VSMP certified plan reviewers. Written procedures for inspection and enforcement are located in the engineering offices at 116 W Beverley Street. A copy of the VSMP approval letting is in Appendix Q.

See BMP 4.1 for a description of the legal authorities and written procedures utilized by the City to ensure compliance with our VESCP and VSMP Programs.

Objective and Expected Results: The City will adhere to current Commonwealth of Virginia regulations with regard to the VSMP permitting to prevent adverse impacts of urban stormwater runoff.

Implementation Schedule: The City of Staunton will implement our local VSMP administration in accordance with Commonwealth of Virginia Regulations and will continue to require applicable VSMP requirements be instituted throughout the permit cycle. The City will implement changes to their local ordinances to comply with modifications to the VSMP permitting regulations. Engineering will be responsible for verifying VSMP permit compliance.

Method to Determine Effectiveness: The total number of permits, inspections, enforcement actions, exemptions applied for and exemptions granted will be tracked. The annual report will include these values.

Annual Reporting:

Stormwater Management Program

Permit Year 6	Permits	Total	Commercial sites	Single-family sites
July 1, 2018 - June 30, 2019	Total number of regulated land-disturbing activities	76	12	64
	Total number of exemptions applied for	1	1	0
	Total number of inspections conducted	935	173	762

	Enforcement	Total	Notices to Comply	Stop Work Orders
	Total number of enforcement actions taken	440	288	152

BMP – 5.2 Structural BMP Maintenance

The City has a program to ensure proper maintenance of all City owned structural BMPs. The City will continue to require a maintenance agreement for any new privately owned structural BMP. The City will continue to encourage owners of private structural BMPs without agreements to acquire the maintenance agreement. The City's engineering division maintains a database of stormwater management facilities. This database is located at the engineering offices at 116 W Beverley Street.

Objective and Expected Results: By continuing the BMP maintenance program the City will ensure BMPs are performing optimally and are minimizing adverse impacts to state waters.

Implementation Schedule: The BMP maintenance program will be an ongoing effort throughout the permit cycle. The development of the program will be a joint effort between Engineering and Public Works. Public Works will be responsible for the actual maintenance of all City owned structural BMPs. Engineering will be responsible for documenting new privately owned BMP agreements.

Method to Determine Effectiveness: The City will track to the total number of new BMP agreements. The annual report will include this number.

Annual Reporting:

Structural BMP Maintenance

Permit Year 6	Total Number of BMP Maintenance Agreements	Number of SWM Agreements		Number of SWM Facilities	
		New BMPs	Existing BMPs	New BMPs	Existing BMPs
July 1, 2017 - June 30, 2018	12	4	8	4	0

BMP – 5.3 Structural BMP Inspection

The City operates a program to inspect structural BMPS within the City. The existing maintenance agreements require property owners of private BMPs to inspect maintain and submit a report to the City upon request. The standardized report is available on the stormwater webpage. The City will also inspect private BMPs once every five years. City owned BMPs will be inspected annually per the program described in BMP 5.2.

Objective and Expected Results: By continuing the BMP inspection program the City will ensure BMPs are performing optimally and achieving design pollutant reduction.

Implementation Schedule: The BMP inspection program will be ongoing throughout the permit cycle. Engineering will be responsible for implementing the programs and performing the inspections.

Method to Determine Effectiveness: The City will track the total number of BMP inspections performed by private owners and completed by City personnel. The annual report will include these numbers.

Annual Reporting:

Structural BMP Inspection

Permit Year 6	Total number of inspections	
	Public BMPs	Private BMPs
July 1, 2018 - June 30, 2019	19	48

BMP – 5.4 Structural BMP Database

The maintenance of the structural BMP database will be instrumental in implementing BMP 5.2 and BMP 5.3. The BMP database includes the type of BMP, ownership, location, date brought online, HUC code, receiving waters, if receiving waterway is impaired, if maintenance agreement exists, number of acres treated and most recent inspection.

Objective and Expected Results: The database will be used to track BMP inspections and maintenance to ensure that all BMPs are functioning properly and as designed.

Implementation Schedule: The BMP database will be maintained throughout the permit cycle. Engineering will be responsible for compiling and maintaining the database.

Method to Determine Effectiveness: The City will include the updates to the BMP database in the annual report.

Annual Reporting: The BMP database for BMPs brought online during **Permit Year 6** has been included in Appendix D.

Minimum Control Measure 6 – Pollution / Good Housekeeping

The Pollution Prevention/Good Housekeeping BMPs allow the City to examine and alter their own actions in an effort to reduce the amount of pollutant that collects on streets, parking lots, and open spaces as a result of runoff from vehicle maintenance areas and poor stormwater maintenance.

Modifications to MCM 6:
Date: August 22, 2019
List of SWPPP sites changed due to recycling center no longer existing and added additional equipment washing facility located at Parks and Recreation maintenance shop

BMP – 6.1 Street Sweeping
The City will continue its program of regular street sweeping.

Objective and Expected Results: The street sweeping program will reduce the adverse effects that pollutants found on public roads have on receiving waters.

Implementation Schedule: Public works will continue this ongoing program through the permit cycle.

Method to Determine Effectiveness: The City will track the number of road miles swept and tons of debris collected. The annual report will include these numbers.

Annual Reporting:

Street Sweeping

Permit Year 6	Total number of road miles swept	Total number of tons collected
July 1, 2018 - June 30, 2019	5,890	1,198

BMP – 6.2 Pollution Prevention Training
City departments, Public Works, Parks & Recreation and Fire Department, will continue its pollution prevention training to its employees. Bi-monthly safety committee meetings will incorporate environmental protection into the agenda as part of Public Works' environmental management systems program.

Objective and Expected Results: The pollution prevention training empowers employees with the knowledge and operating procedures to minimize accidental pollutant release that could contaminate storm water runoff. Through this training, employees realize environmental stewardship has many far reaching benefits.

Implementation Schedule: The pollution prevention training is a current policy that will continue to be implemented throughout the permit cycle. Each department, Public Works, Parks & Recreation and Fire Department will continue to be responsible for their departmental pollution prevention training.

Method to Determine Effectiveness: The City will track the number of personnel trained. The annual report will include this number.

Annual Reporting:

Pollution Prevention Training

Permit Year 6	Total number of City personnel trained	Department	Training Date
July 1, 2018 - June 30, 2019	14	Public Works	9/25/2018
	18	Public Works	6/27/2019
	12	Parks & Rec	7/23/18
	54	Fire Department	8/6/2018 thru 8/8/2018

BMP – 6.3 Yard Debris Collection Program

The City will continue its yard debris collection program. Residents are asked to rake leaves to the curb each fall where Public Works crews vacuum them up for composting. Usually each area of the City will have two specific periods for leaf collection. Leaves may be bagged and, in limited numbers, put out with regular refuse.

Objective and Expected Results: By collecting and composting yard waste the City is reducing the amount of gross discards that would otherwise end up in streams.

Implementation Schedule: This is an ongoing program that Public Works will continue throughout the permit cycle.

Method to Determine Effectiveness: The City will track the total number of cubic yards and loads of debris collected. The annual report will include these numbers.

Annual Reporting:

Yard Debris Collection Program

Permit Year 6	Total number of cubic yards collected	Total number of loads collected
July 1, 2018 - June 30, 2019	4122	296

BMP – 6.4 Dedicated Vehicle Wash Facility

The City currently operates and maintains 2 dedicated vehicle/equipment wash facilities, one at our equipment maintenance shop and one at our parks & rec maintenance shop.

Objective and Expected Results: This program eliminates the many pollutants that would otherwise enter into the stormwater system in a dedicated vehicle wash facility did not exist.

Implementation Schedule: This is an ongoing program that Public Works will continue throughout the permit cycle.

Method to Determine Effectiveness: The City will track the total number of vehicles washed. The annual report will include this number.

Annual Reporting:

Dedicated Vehicle Wash Facilities

Permit Year 6	Total number of vehicles washed
July 1, 2018 - June 30, 2019	1,035

BMP – 6.5 Storm Sewer Inspection and Maintenance

The City has developed a programmatic storm sewer inspection and maintenance program. The program includes expected routine maintenance and non-routine (repair) maintenance.

Objective and Expected Results: The storm sewer inspection and maintenance program will ensure the storm sewer system is in good working order.

Implementation Schedule: The ongoing program will continue throughout the permit cycle. Engineering and Public works will be responsible for developing and implementing the program.

Method to Determine Effectiveness: The City will document the number of storm structures and linear feet of storm sewer inspected. The annual report will include these numbers.

Annual Reporting:

Storm Sewer Inspection

Permit Year 6	Total number of Storm Structures Inspected	Total Linear Feet of Storm drain Inspected
July 1, 2018 - June 30, 2019	210	2,900

BMP – 6.6 Develop/Maintain SWPPPs for Required City Facility

The City has identified four high priority City facilities that it operates. They are:

Municipal High-Priority Facilities with A High Potential for Pollutant Discharge			
Name of facility	**Facility Address**	**Operator**	**Location of SWPPP**
Public Works Operations Facility	1911 Craigmont Road	Public Works	1911 Craigmont Road
Parks and Recreation Maintenance Facilities	330 Park Boulevard	Parks and Recreation	330 Park Boulevard
Middlebrook Avenue Salt Storage Facility	866 Middlebrook Avenue	Public Works	1911 Craigmont Road
Parks and Recreation Pools	600 Churchville Avenue / 1000 Montgomery Avenue	Parks and Recreation	1000 Montgomery Avenue

The City will maintain the Stormwater Pollution Prevention Plans (SWPPPs) for each high priority facility. The SWPPS will be maintained by the facilities operators, which includes Public Works and Parks and Recreation staff. Each SWPPP is located on site at the facility and is available upon request.

Objective and Expected Results: These documents will provide guidance to prevent and reduce pollutant runoff from municipal operations.

Implementation Schedule: The City will maintain the SWPPPs for each high priority facilities throughout the permit cycle.

Method to Determine Effectiveness: The annual report will include the total number of SWPPP inspections completed.

Annual Reporting:

SWPPP Inspections Performed

Name of facility	Facility Address	Number of Inspections Performed
Public Works Operations Facility	1911 Craigmont Road	54
Parks and Recreation Maintenance Facilities	330 Park Boulevard	108
Middlebrook Avenue Salt Storage Facility	866 Middlebrook Avenue	9
Parks and Recreation Pools	600 Churchville Avenue / 1000 Montgomery Avenue	81

BMP – 6.7 Develop/Maintain Nutrient Management Plans for Required City Sites

The City has identified six sites, over one acre that require a Nutrient Management Plan (NMP). Those sites are:

Municipal Facilities Requiring Nutrient Management Plans			
Name of facility	**Facility Address**	**Planner**	**Acres Covered Under NMP**
Gypsy Hill Golf Course	300 Park Boulevard	Parks and Recreation	1.90
Braves Baseball	600 Churchville Avenue	Parks and Recreation	2.5
Gypsy Hill Baseball Fields	600 Churchville Avenue	Parks and Recreation	2.5
Montgomery Hall Baseball/Softball Fields	1000 Montgomery Avenue	Parks and Recreation	5.4

Montgomery Hall Soccer Fields	1000 Montgomery Avenue	Parks and Recreation	4
Staunton Football Complex	600 Churchville Avenue	Parks and Recreation	2.25

The City maintains a Nutrient Management Plan for each of these sites. The plans are located at each of the facilities and are available for review upon request.

Objective and Expected Results: The developed NMP will define the amount, source, placement, form and timing of the application of nutrients and soil amendments to ensure optimal management.

Implementation Schedule: The City will continue to implement the NMP through this permit cycle.

Method to Determine Effectiveness: The annual report will include the total amount of nutrients applied to the acreage of each site.

Annual Reporting:

Municipal Facilities Requiring Nutrient Management Plans			
Name of facility	**Facility Address**	**Acres Covered Under NMP**	**Total Amount of Nutrients Applied (lbs./acre)**
Gypsy Hill Golf Course	300 Park Boulevard	1.90	Nitrogen: 84.07 Phosphorus:2.61 Potassium: 63.6
Braves Baseball	600 Churchville Avenue	2.5	Nitrogen: 43.99 Potassium: 7.84
Gypsy Hill Baseball Fields	600 Churchville Avenue	2.5	Nitrogen: 43.99 Potassium: 7.84
Montgomery Hall Baseball/Softball Fields	1000 Montgomery Avenue	5.4	Nitrogen: 43.99 Potassium: 7.84

Montgomery Hall Soccer Fields	1000 Montgomery Avenue	4	Nitrogen: 43.99 Potassium: 7.84
Staunton Football Complex	600 Churchville Avenue	2.25	Nitrogen: 135.03 Potassium: 9.58

Chesapeake Bay TMDL

In December of 2010, the United States Environmental Protection Agency established a total maximum daily load (TMDL), or "Pollution Diet", to limit the amount of phosphorus, nitrogen, and sediments that can be released into the streams, creeks, and rivers that feed the Chesapeake Bay. These measures were established as an effort to improve the water quality of the Bay and to return it to a swimmable and fishable state. The Bay TMDL limits were divided into smaller TMDLs that were assigned to drainage basins across six (6) states including Virginia. To respond to the TMDL the Commonwealth of Virginia committed to a phased approach to implementation for MS4 programs. The phased approach for MS4 communities includes a requirement to meet a reduction goal of 40% during the 2018 - 2023 MS4 Permit Cycle. The City of Staunton has developed a draft TMDL action plan based on the 2013 – 2018 permit cycle guidance document. The Virginia Department of Environmental Quality has indicated that a new guidance document will be provided for the final development of the phase II TMDL action plans. Once the guidance is provided, the City will finalize the action plan. The City of Staunton will then employ appropriate actions to meet the planning document during the 2018 – 2023 to the maximum extent practical.

Objective and Expected Results: The development of a Chesapeake Bay TMDL Action Plan that will provide implementation guidelines and a program of management practices that will facilitate compliance with the condition of future permits.

Implementation Schedule: The City will submit the TMDL Action Plan for the second permit cycle (July 1, 2018- June 30, 2023) within 12 months of the permit issuance date (November 2019).

Local TMDL

The City of Staunton is located within the South River and Middle River watersheds in Augusta County Va. This waterway was listed as high priority impairment list for fecal coliform and general benthic in 1996. As a result, a TMDL was developed and approved in April of 2004. The City was not specifically allocated a waste load as part of the TMDL planning process. The final TMDL instead provided allocations to the major sub-watersheds including Lewis Creek. As a permit holder within the Lewis Creek watershed the City of Staunton will develop a TMDL action plan for the Middle River and Upper South River TMDL within 18 months of permit coverage (May 2020).

Objective and Expected Results: The development of a Local TMDL Action Plan that will provide implementation guidelines and a program of management practices that will facilitate compliance with the condition of future permits.

Implementation Schedule: The City will submit the TMDL Action Plan within 18 months of the permit issuance date.

Responsible Parties

The departments of responsibility for implementation of MS4 program elements are included in BMP descriptions above. Contact information for each responsible party is located below:

Executive Officer
Title: City Manager
Name: Steven L. Rosenberg
Address: P.O. Box 58
Staunton, VA 24402
Phone: 540-332-3812
Email: Rosenbergsl@ci.staunton.va.us

Program Management

Engineering Division
Title: City Engineer
Name: Nickie D. Mills
Address: P.O. Box 58
Staunton, VA 24402
Phone: 540-332-3858
Email: millsnd@ci.staunton.va.us

Department of Public Works
Title: Director
Name: Thomas C. Sliwoski
Address: P.O. Box 58
Staunton, VA 24402
Phone: 540-332-3892
Email: sliwoskitc@ci.staunton.va.us

Department of Parks and Recreation
Title: Director
Name: Christopher Tuttle
Address: P.O. Box 58
Staunton, VA 24402
Phone: 540-332-3945
Email: tuttlecj@ci.staunton.va.us

Staunton Fire Department
Title: Fire Chief
Name: R. Scott Garber
Address: 500 N. Augusta Street
Staunton, VA 24401
Phone: 540-332-3884
Email: garberrs@ci.staunton.va.us

APPENDICES

APPENDIX A

STAUNTON'S SOLUTION FOR STORMWATER POLLUTION, ISSUE NUMBER IV

Construction Site Requirements

There are many different types of control measures that help to control, total suspended solids. However, these are a few of the most common practices used.

The control measure that you will see most often is silt fence. Silt fence is a woven geotextile fabric that is a temporary barrier used during construction. Silt fence catches sediment before it leaves the site but allows water to filter through it.

Like silt fence, sediment basins and sediment traps retain/filter water to allow the sediment to settle out and the water to be released. Sediment basins and traps are designed to accommodate a portion of the run off from a site.

Inlet protection is another important measure to control total suspended solids. Inlet protection can come in many different variations but the key is, the material (stone, fabric/mulch. Etc.) in front of the inlet filters the sediment from the water.

Staunton's Solutions for Stormwater Pollution

This brochure is the fourth of an annual publication to inspire the citizens of Staunton to be more proactive to help prevent the stormwater runoff pollution of our local streams and watersheds.

To report stormwater pollution or if you have a question concerning stormwater, please call the City's Stormwater Hotline at **540-213-6517** or send an email to **StauntonStormwater@ci.staunton.va.us.**

For more information on the City's ongoing efforts to reduce stormwater pollution, please find us on Facebook at: **facebook.com/stauntonstormwater**

GET INVOLVED!

There are many opportunities in Staunton offering public participation:

- Adopt-a-Street Program
- Adopt-a-Stream Program
- Regional Household Hazardous Waste Collection Day

Community Development Department
Engineering Division
116 West Beverley Street
3rd Floor
Staunton, VA 24401
Phone: (540) 332-3858
www.staunton.va.us

Find us on Facebook
"City of Staunton – Watershed Awareness"

Staunton's Solutions for Stormwater Pollution

Issue Number IV

STAUNTON

January 2019

Stormwater & Construction

Stormwater can be challenging to manage during times of construction. Typically everyone thinks that the only stormwater pollutant that comes from construction is the sediment that could potentially leave the site. While sediment is the most obvious concern; construction can lead to many stormwater pollution issues.

Construction sites are regulated and inspected by the City. City inspectors make site visits twice a month and following rainfall events to ensure that construction sites are following all appropriate laws and regulations. This helps to ensure that all potential construction discharges into our local waterways are clean.

Construction Waste

The most common construction wastes include:

- Chemicals
  - Concrete washout water
  - Paints & Cleaners
- Litter/Debris
  - Excess building material
  - Common litter (trash)
- Total Suspended Solids (TSS)
  - Sediment, Gravel, Etc

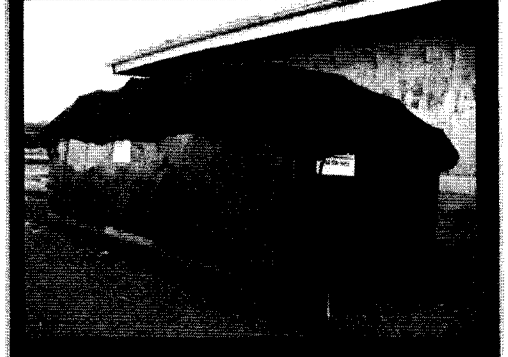
Concrete has the most potential to become a major construction waste pollutant. Once the concrete has been poured, the concrete truck needs to spray down the truck to remove the left over residuals. This concrete washout water contains toxic chemicals and caustic properties. If this washout water gets into our streams, it could cause damage to the aquatic life. This is why construction sites are required to have concrete washout stations: a leak proof container (or pit). Once the concrete washout water has evaporated or been discarded in the appropriate manner, the solids left behind can be properly disposed of.

Paint as a pollutant should be handled similar to concrete washout water. Any containers that are left over after painting should be disposed of properly. Any paint brush washing should be directed to a leak proof container.

Construction Waste (cont.).

As you can imagine there are a lot of construction sites that have left over building materials. Many times this waste is considered solid waste material (wood, dry wall, insulation, carpet, cardboard etc.) that if improperly disposed of could impact our storm drain system and waterways. Common litter (trash, bottle, bags, etc.) are also present throughout construction sites. These items should also be gathered and placed into an appropriate container.

If this material were to get washed off the construction site, it could potentially clog our storm drains and cause localized flooding.



When there is a storm event, it is required that construction dumpster are covered. Many dumpsters are actually not watertight and the water can mix with the waste and carry pollutants/solids with it into our storm drains and waterways.

APPENDIX B

ILLICIT DISCHARGE DETECTION & ELIMINATION PROGRAM DATABASE

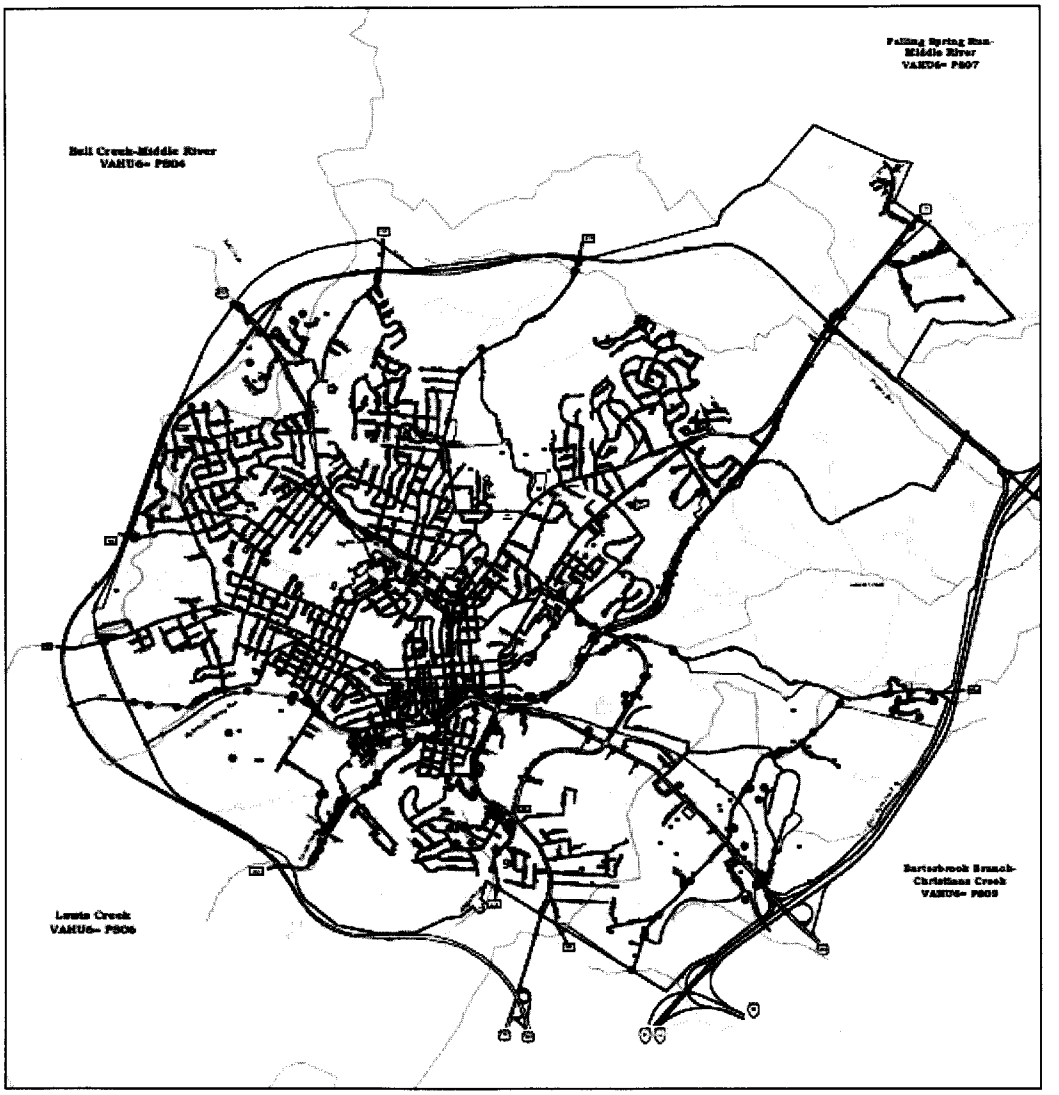
Illicit Discharge Detection and Elimination (IDDE) Database - FY19 — July 1, 2018 thru June 30, 2019

NUMBER	NOTIFICATION TYPE	DATE POTENTIAL ILLICIT DISCHARGE OBSERVED	DATE POTENTIAL ILLICIT DISCHARGE REPORTED	DID DISCHARGE REACH LOCAL WATERWAY	WAS DISCHARGE TO IMPAIRED WATERS	DESCRIPTION OF THE INVESTIGATION INCLUDING ANY FOLLOW-UP	RESOLUTION OF THE INVESTIGATION	DATE CLOSED
4	Call from Public Works	8/21/2018	8/21/2018	NO	NO	Public Works responded to a call noting a potential water leak, upon arrival, it was determined that the resident at 516 B St was draining a pool.	Stormwater technician delivered a copy of the City's pool draining guidelines to the residence	8/23/2018
5	Citizen verbal complaint/email	Unknown	8/28/2018	YES	YES	Citizen noted a "milky" substance being discharged into the creek behind 6 East Johnson St. during a dry day. City stormwater technician made a site visit and could not determine a location where the discharge originated from.	The discharge appears to have been a one time occurrence and not a recurring discharge coming from the parking lot above the creek. Due to receiving the complaint well after the discharge no action could be taken, but the City will make periodic visits to the site to ensure no discharges are occurring.	8/31/2018
6	Call from Public Works	8/30/2018	8/30/2018	YES	NO	Public works noticed a construction crew washing concrete dust from sawing activities down an adjacent drop inlet at 2231 West Beverley. City stormwater technician made a site visit and informed the contractors of our IDDE program.	The contractors swept up any remaining portion or concrete dust and cleaned out the drop inlet.	8/31/2018
7	Call from Fire Dept.	10/1/2018	10/1/2018	YES	NO	The Fire Dept. received a call regarding liquid seeping from the ground behind the front buildings at 1440 Commerce Rd (Sam's Hot Dogs), during the site visit a buried fuel oil tank was discovered. It was determined that heavy rains this year had leech into the tank causing it to overflow and enter an adjacent pipe inlet.	DEQ was notified and contacted the property owner which had a contractor remove all fluid from the tank and schedule removal of contaminated material adjacent to the tank.	
8	Call from Fire Dept.	10/3/2018	10/3/2018	NO	NO	Deputy Fire Chief noticed an individual pouring/spilling what appeared to be antifreeze from his box truck located behind Walmart on Richmond Ave	Deputy Fire Chief notified the individual of the City's IDDE ordinance and instructed him to immediately cease and clean up any spilled liquid	10/3/2018
9	Call from Police Dept.	2/3/2019	2/3/2019	YES	YES	A single car accident happened at the intersection of Hampton St and Middlebrook Ave. The vehicle flipped upside down into the creek along Middlebrook Ave., releasing approximately 10 gallons of	Fire Dept. followed their normal procedures, contained the fuel spill and notified hazmat and DEQ	2/3/2019
10	Call from WTP	2/23/2019	2/23/2019	NO	NO	Citizen at 934 Trout St called in and noted that a visible "sheen" was running down the road with runoff during a rainfall event. The "sheen did not have an apparent origin	Stormwater technician made a site visit and could not identify any evidence of an illicit discharge.	2/25/2019
11	Email from Public Works	3/29/2019	3/29/2019	NO	NO	Utility Field Engineer responded to a possible water main break at 1110 N Coalter St, after visiting the site it was determined that the resident was draining water from a swimming pool into the street	Stormwater technician delivered a copy of the City's pool draining guidelines to the residence	3/29/2019
12	Videos brought in by citizen	7/1/2018	4/17/2019	YES	NO	A citizen walking her dog in the park noticed a "milky" substance being discharged from a pipe adjacent to the City pool in Gypsy Hill Park	Parks and Recreation was notified and informed of the discharge. The discharge was stated to be caused from "backwashing" pool filters. Proper training will occur with seasonal staff to ensure that staff is aware of proper procedures.	4/23/2019
13	Email from DEQ	4/29/2019	4/30/2019	NO	NO	Dominion Power responded to a power outage at 1 East Johnson St, During their investigation they noticed mineral oil leaking from a transformer	Dominion Power contacted WEL for clean up operations and notified DEQ of the issue	4/30/2019

APPENDIX C

OUTFALL AND POINTS OF DISCHARGE MAP

City of Staunton Outfall Map



APPENDIX D

BMP DATABASE ADDITIONS

BMP DATABASE
PRIVATELY OWNED BMPs BROUGHT ONLINE
FROM July 1, 2018 thru June 30, 2019

BMP NO.	SITE NAME	SITE ADDRESS	OWNER	SITE LOCATION		FACILITY TYPE	ACRES TREATED			ONLINE DATE		VA HU6	RECEIVING WATERS	IMPAIRED WATERS	SWM AGREEMENT
				LATITUDE	LONGITUDE		TOTAL	PERVIOUS	IMPERVIOUS	MONTH	YEAR				
BLS65	Forest Ridge	229 Forest Ridge Rd	Forest Ridge Townhomes, HOA	38.1608238	-79.0592657	Bioretention Filter	0.39	0.12	0.27	8	2018	PS06	Lewis Creek	Yes	9/7/2018
BLC66	Forest Ridge	234 Forest Ridge Rd	Forest Ridge Townhomes, HOA	38.1609245	-79.0594796	Bioretention Filter	0.35	0.12	0.23	8	2018	PS06	Lewis Creek	Yes	9/7/2018
BCN9	Fairfield Inn	114 Crossing Way	Staunton Suites LLC	38.13062	-79.03203	Underground hdpe pipes	1.84	0.43	1.41	10	2018	PS09	Christian Creek Trib (N)	No	9/27/2018
BCN11	Tru Hotel	120 Crossing Way	Eastside LLC	38.130782	-79.037603	Underground hdpe pipes	2.14	0.95	1.19	10	2018	PS09	Christian Creek Trib (N)	No	9/27/2019
BCN8	Fairfield Inn	114 Crossing Way	Staunton Suites LLC	38.1318	-79.0382	Underground hdpe pipes	0.59	0.33	0.26	10	2018	PS09	Christian Creek Trib (N)	No	9/27/2019
BCN10	Fairfield Inn	114 Crossing Way	Staunton Suites LLC	38.1307	-79.0374	Filtera	0.33	0.00	0.33	9	2018	PS09	Christian Creek Trib (N)	No	9/27/2019
BCN12	Tru Hotel	120 Crossing Way	Eastside LLC	38.1306	-79.0371	Filtera	0.24	0.00	0.24	9	2018	PS09	Christian Creek Trib (N)	No	9/27/2019
BPC32	Springhill Village Apartments	1701 Springhill Road	Springhill United Methodist Housing LP	38.170778	-79.074698	Underground CMP pipes	0.50	0.14	0.36	10	2018	PS06	Peyton Creek	No	11/27/2019

APPENDIX E

Assessment of the Appropriateness of Identified BMPs

The City of Staunton has determined that the best management practices included in the MS4 Program Plans that the City already had in place during Permit Year 1-6 represent an appropriate selection and implementation of a stormwater management program as defined by the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems.

No deficiencies have been found within the existing bmps or within the new bmps currently being developed for the Program.