



**TOWN OF BLACKSBURG STORMWATER
MANAGEMENT PROGRAM
VPDES PERMIT NO. VAR 040019
(Effective November 1, 2018)**

**Municipal Separate Storm Sewer System (MS4) Annual
Report for the reporting period:
July 1, 2019 to June 30, 2020**

Date Submitted: October 1, 2020

"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."



Marc Verniel, Town Manager



Date

Blacksburg TOWN OF
VIRGINIA

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Introduction

Regulatory compliance related to stormwater management and the Municipal Separate Storm Sewer System (MS4) program is part of a town wide program. This document serves as the annual report for the reporting period of **July 1, 2019** through **June 30, 2020** for the **Town of Blacksburg** (TOB), General Permit No. **VAR040019** (effective November 1, 2018 – October 31, 2023). In this past permit year each department's roles and responsibilities has been described in the new 2018 TOB Program Plan. All of the policies and procedures referenced in this annual report support the new Program Plan. In the future, minor revisions to BMPs will be described in the body of the annual report based upon evaluations made upon the end of each reporting period.

Annual Report Requirements, General

- 1) Permittee, system name and permit number; **(Coversheet)**
- 2) The reporting period for which the annual report is being submitted; **(Coversheet)**
- 3) Signed Certification as per Part III K; **(Coversheet)**
- 4) Each annual reporting item as specified in the MCMs in Part I E; and **(body)**
- 5) 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. **(body)**

MCM 1: Public Education & Outreach

The goals of the Public Education and Outreach Minimum Control Measure (MCM) are (1) To increase public knowledge of how to reduce pollution with a focus on the specific water quality issues of our local waters, (2) To increase public knowledge of hazards associated with illegal discharges and improper disposal of waste, and (3) To implement a diverse program with strategies that target those groups most likely to have stormwater impacts. Measures described below are intended to meet the public outreach and outreach goals as described in the Program Plan.

List of Minimum Control Measure #1 BMP's:

- A. Storm Drain Marking Program
- B. Illicit Discharge Education for Commercial Businesses
- C. Town Stormwater Webpage and Digital Media
- D. Outreach Targeting School Aged Children and University Students

The high priority stormwater issues listed below are identified in the Town of Blacksburg Program Plan. The public education and outreach best management practices focus on these issues as is described in the section below.

High Priority Stormwater Issues:

- Local TMDLs
- Illicit Discharges from Commercial Sites
- Pet Wastes

Appropriateness of the Minimum Control Measure One BMPs:

These BMPs increase awareness of the Town's local water quality issues by engaging the public in a variety of formats, introducing them to local impairments and ways in which they may be able to have some positive effect on the discharge to the Town's impaired waters. In the chart below, it illustrates how each of our BMPs addresses the specific high-priority water quality issues listed in the Program Plan.

Evaluation of Consistency with High Priority Stormwater Issues			
MINIMUM CONTROL MEASURE ONE BMPs	<i>Local TMDLs</i>	<i>Illicit/Commercial</i>	<i>Pet Wastes</i>
BMP 1.A (Storm Drain Marking Program)	✓	✓	
BMP 1.B (Illicit Discharge Education for Commercial Businesses)	✓	✓	
BMP 1.C (Town Stormwater Webpage and Digital Media)	✓	✓	✓
BMP 1.D (Outreach Targeting School Aged Children and University Students)	✓	✓	✓

Annual Report Required Documentation:

- A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program; **(this page)** and
- A list of the strategies used to communicate each high-priority stormwater issue. **(below)**

Strategies from Table 1							
MCM1 BMPs	Written	Alternative	Signage	Media	Speaking	Curriculum	Training
BMP 1.A (Storm Drain Marking Program)	✓		✓	✓			
BMP 1.B (Illicit Discharge Education for Commercial Businesses)	✓						
BMP 1.C (Town Stormwater Webpage and Digital Media)				✓			
BMP 1.D (Outreach Targeting School Aged Children and University Students)						✓	

A. Storm Drain Marking Program Implementation

The town plans to mark storm drains in high pedestrian areas with information that identifies that the waters go to local streams. This may be done with a stamp or marker, or alternative messages such as art work and other high profile method. The goal is to draw attention to the storm drain network and educate citizens that these waters are not treated prior to discharge to local waters.

Measurable Goals Identified and Achieved:	Years Achieved				
	2018	2019			
Sponsor Local Artists to Paint Storm Drains					
Mark Storm Drains with Metal Marker (<i>alternative</i>)					
Progress Toward Meeting Objectives of Permit					
<p>This activity was continued during the COVID-19 Pandemic due to its ability to be installed safely at a distance. The Town has sponsored local artists to paint three storm drains in the Downtown area. The inlets chosen are in high visibility areas near a local environmental education center, one of the Downtown Municipal Buildings, and the downtown Fire Station. The paintings vary in style, but share the following themes:</p> <ul style="list-style-type: none"> • The Town of Blacksburg’s Freshwater Heritage • The Protection of Stroubles Creek • New River Watershed’s Natural Beauty: local wildlife, healthy habitat & natural beauty <p>The Town did not mark any new storm drains with metal markers this year.</p>					
Proposed Changes to BMP or Measurable Goals					
No changes are proposed for the BMP.					
Next Reporting Period Activities Planned (YEAR 3)					
The town will continue to sponsor storm drain art projects and expand the program to storm drains within close proximity to elementary schools. One of the art installations was unable to be completed due to COVID-19 school cancellations, so this installation is planned for next year. The town will periodically install high visibility metal mark in highly visible areas, primarily in shopping centers and apartment complexes where foot traffic is heavy.					

B. Illicit Discharge Education for Commercial Businesses

The Town continues to research and update the commercial best management practices, alternative treatment and storage options, and proper disposal techniques for non-stormwater discharges to better educate the commercial business community. This information will be sent to businesses annually. Additionally, the Town will continue to send out a survey asking

businesses about non-stormwater discharges specific to their business every five years. Responses to the survey will allow the Town to evaluate the existing program and prioritize potential hazards for the future.

Measurable Goals Identified and Achieved:	Years Achieved				
Send out Non-stormwater discharger survey	2018				
Send Illicit Discharge Educational Info to Businesses and Residents		2019			
Progress Toward Meeting Objectives of Permit					
The Town sent out an Illicit Discharge Flyer to businesses that perform power washing services. This survey got distributed to all power-washing businesses that applied for business permits this reporting period. A copy of the survey is included in the Program Plan. The Town is currently developing new material for the illicit discharge educational flyer.					
Proposed Changes to BMP or Measurable Goals					
None proposed.					
Next Reporting Period Activities Planned (YEAR 3)					
In the next reporting period, the Town's goal is to reach out to all commercial businesses and provide literature regarding illicit discharges and proper waste disposal.					

C. Town Stormwater Page Educational Information and Digital Media

Stormwater related information is available on the Town's website for the general public. The site contains links to DEQ, DCR, and EPA web pages related to stormwater pollution, MS4, and TMDLs. The Town's stormwater management ordinance, MS4 Program plan and annual reports, and local TMDLs are also posted on the website. The Town will continue to provide digital content relating to local stormwater issues.

Measurable Goals Identified and Achieved:	Years Achieved				
Update Stormwater webpage	2018	2019			
Review Alternative Digital Media Sources for Outreach					
Implement Alternative Digital Media Sources for Outreach					
Progress Toward Meeting Objectives of Permit					
This past year the webpage was updated with the most current MS4 Program Plan information. Due to COVID-19, the Town's plans to review alternative media sources for outreach was delayed. This has been planned for reporting period 2020.					
Proposed Changes to BMP or Measurable Goals					
The Town is continuing to look into alternative methods of providing digital media for outreach.					
Next Reporting Period Activities Planned (YEAR 3)					
In the next reporting period, the Town's goal is to find alternative methods for Outreach. These are desirable to continue to have a diverse program to continue to target a diverse audience.					

D. Outreach Targeting School Aged Children and University Students

The Town will continue to develop and implement a public education program specifically targeting school-age children and university students. This plan will cover stream and watershed education, information regarding local TMDLs and impairments and impacts of uncollected pet waste. School-age content will be consistent with the Virginia Science Standards of Learning (SOL) curriculum. University education will be tailored to be relevant to the course and incorporate the high-priority stormwater issues as appropriate.

Measurable Goals Identified and Achieved:	Years Achieved			
Provide Curriculum Materials for 4 th Grade Stream Field Trips	2018	2019		
Provide Curriculum Materials for 6 th Grade Stormwater Day	2018	2019		
Oral Presentation to University Undergraduate Student Classes: CEE 4304 Hydrology, CEE 4274 Land Development, CEE 4254 Municipal Engineering or NR 4444 Practicing Sustainability	2018	Cancelled		
Oral Presentation to University Graduate Classes: CEE 5734 Urban Hydrology, CEE 5324 Advanced Hydrology		Cancelled		
Progress Toward Meeting Objectives of Permit				
<p>This past year curriculum materials were provided for the 4th grade and 6th grade curriculums. Typically the K-12 schools have fall and spring events. The fall events were attended as normal, but there were no spring events, due to the Montgomery County Schools being cancelled as of 3/13/20 because of the COVID-19 pandemic. The Town began evaluating a partnership with the Montgomery-Floyd Regional Library system to implement a program for students to “check-out” educational material and perform independent activities with similar content as the large group school programs such as the Stormwater Day and the Stream Class.</p> <p>All college level scheduled oral presentations were cancelled due to the University spring classes going on break as of 3/7/20 and not returning to in-person classes due to COVID-19.</p>				
Proposed Changes to BMP or Measurable Goals				
The Town is implementing a conversion of some of the oral college level presentations to be converted to online format for more flexibility in the future.				
Next Reporting Period Activities Planned (YEAR 3)				
In the next reporting period, the Town’s goal is to find alternative methods for Outreach. With the continuation of the COVID-19 pandemic into Year 3, the in person events will be transitioned to digital events. These are currently being developed.				

MCM 2: Public Involvement and Participation

The goal of the Public Involvement and Participation measure is to increase public notice, involvement and participation in the Town’s stormwater program by providing diverse avenues for public input and reporting. The general permit requires that the Town have procedures for reporting spills or illicit discharges, providing input on the MS4 Program Plan, receiving complaints and documenting all responses.

Program Plan Goals:

- To provide diverse avenues for public input and reporting
- To provide citizen input on the MS4 Program Plan
- To provide and avenue for receiving complaints and documenting response

Measures described below are intended to meet these goals as described in the Program Plan.

List of Minimum Control Measure #2 BMP’s:

- A. Conduct Stakeholder Meetings for Watershed Management and Stormwater Quality Improvement and Comprehensive Planning
- B. Online Reporting Portal for Public
- C. Stormwater Webpage
- D. Stormwater Activities

Annual Report Required Documentation:

- A summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded; (**Appendix A**)
- A webpage address to the permittee’s MS4 program and stormwater website; (**see BMP 2-C**)
- A description of the public involvement activities implemented by the permittee; (**see BMP 2-D**)
- A description of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality; (**see BMP 2-D**) and
- The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities. (**see BMP 2-D**)

A. Conduct Stakeholder Meetings for Watershed Management, Stormwater Quality Improvement and Comprehensive Planning

Measurable Goals Identified and Achieved:	Years Achieved				
Staff attends community meetings and public hearings for new projects with stormwater concerns & documents citizens’ concerns	2018	2019			
Attend Meetings for Local Stream TMDL Implementation					
Meet w/ Local Stormwater Interest Groups and HOAs					
Update Stormwater Goals in Comprehensive Plan					
Progress Toward Meeting Objectives of Permit					
The Town had 4 community meetings and 6 public hearings in which stormwater issues were discussed. There were no stormwater stakeholders interest groups that met this reporting year. Updates to the Blacksburg Comprehensive Plan are complete. The Town received individual comments/input regarding stormwater at these meetings. All input has been summarized in Appendix A.					

Proposed Changes to BMP or Measurable Goals
None proposed.
Program Plan Goal Addressed by this BMP
To provide diverse avenues for public input and reporting.
Next Reporting Period Activities Planned (YEAR 3)
In the next reporting period, the Town's goal is to continue to attend community meetings and public hearings. While these were paused earlier this year, they have been reinstated with social distancing and mask wearing. There is lower attendance, but they are still being attended. The Town is actively involved in discussions on how to continue the TMDL and stormwater Interest group meetings.

B. Online Reporting Portal for Public

The Town has a system named "At Your Request" which is designed to provide our residents, businesses and visitors access to staff 24-hours a day, 7-days a week. This system allows residents to contact staff via email regarding input, complaints, and reports of illicit discharges or dumping. Each request is sent directly to a designated staff and must be responded to in 5 days. The Town will maintain this system or a comparable system to provide this service. The portal can be found at <http://www.tobweb.org/ayr/>.

Measurable Goals Identified and Achieved:	Years Achieved				
Provide At-Your-Request Portal for 24-7 Reporting	2018	2019			
Progress Toward Meeting Objectives of Permit					
There were 12 issues identified through the "At Your Request" system. These reports were a mixture of illicit discharges, stormwater complaints or general stormwater questions submitted to the system by citizens during this reporting period.					
Proposed Changes to BMP or Measurable Goals					
None proposed.					
Program Plan Goal Addressed by this BMP					
To provide and avenue for receiving complaints and documenting response					

C. Stormwater Webpage

As discussed in MCM1-C, Stormwater related information is available on the Town's website for the general public. In addition to general outreach and educational information, the Town will also provide opportunity for the public to view and comment on all stormwater permit information. The stormwater webpage is located at www.blacksburg.gov/stormwater.

Measurable Goals Identified and Achieved:	Years Achieved				
Post Program Plan Online for comment	2018	2019			
Post Annual Reports Online for comment	2018	2019			
Post MS4 Permit and Coverage Letter	2018	2019			
Provide an email address for comment	2018	2019			
Progress Toward Meeting Objectives of Permit					
There were 21 individual comments/input or complaints submitted via email or phone to the Town of Blacksburg. All input has been summarized in Appendix A.					
Program Plan Goal Addressed by this BMP					
To provide and avenue for receiving complaints and documenting response					
Proposed Changes to BMP or Measurable Goals					
None proposed.					

D. Stormwater Activities

The Town will participate in a minimum of four activities per year to provide an opportunity for public input to improve water quality and support local restoration and clean-up projects.

Activities will consist of:

Education Events: Steppin’ Out 2019 on August 2nd and 3rd and the Stormwater Day with Montgomery County 6th grade on October 18, 2019 were held this year successfully. These events were held prior to the onset of the COVID-19 Pandemic:

- Steppin’ Out (August 2&3, 2019) - **380 attendees** (metric)
- Stormwater Day (October 18, 2019) – **300 students** (metric)

Unfortunately, all spring events were cancelled:

- Stormwater Day (April 6th &7th)
- The Big Event (March 14, 2020)
- The New River Home Show (March 14, 2020)

Collaborations:

- Steppin’ Out (August 2&3, 2019) – Virginia Tech (VAR040049)
- Stormwater Day (October 18, 2019) – Virginia Tech (VAR040049), Town of Christiansburg (VAR040025) & Montgomery County (VAR040134)

Disposal or Collection Events: Household Hazardous Waste Days – *These events that used to be held at the Montgomery Regional Solid Waste Authority has now been sourced out to the New River Regional Waste Authority in Dublin, VA due to budgeting challenges. This event will no longer be included in the Town of Blacksburg MS4 Program Plan.*

Measurable Goals Identified and Achieved:	Years Achieved			
Participate in a minimum of four activities	2018	Not Achieved		
Progress Toward Meeting Objectives of Permit				
The Town participated two Education Events: Steppin’ Out (8/2/19) and had a Stream Education Table at the Stormwater Day with Montgomery County 6 th grade (10/18/19). The remaining three event options were cancelled due to the COVID-19 Pandemic. At the Steppin’ out event our booth greeted 380 citizens.				
Proposed Changes to BMP or Measurable Goals				
The Household Hazardous Waste Days that were held once a month have been shifted to Dublin VA and are no longer a MCM that the Town can include in the Program Plan. Additionally, the Town will be monitoring changes to these events in 2020/21 to see how COVID continues to impact these events.				
Program Plan Goal Addressed by this BMP				
To provide diverse avenues for public input and reporting.				

MCM3: Illicit Discharge Detection and Elimination

Develop a comprehensive map of the storm drain system, establish and carry out procedures to identify and remove illicit discharges, establish legal authority for enforcement actions, and encourage public education and involvement in eliminating illicit discharges. Measures described below are intended to meet these goals as defined in the Program Plan.

Program Plan Goals:

- To develop and maintain an accurate MS4 map.
- To provide notification to any downstream MS4 of physical interconnections.
- To enforce illicit discharges.

Measures described below are intended to meet these goals as described in the Program Plan.

Control Measure #3 BMP's:

- A. Storm Drain System Map
- B. Physical Interconnections
- C. Illicit Discharge Ordinance and Procedures

Annual Report Required Documentation:

- A confirmation statement that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year; **(BMP 3-A)**
- The total number of outfalls screened during the reporting period as part of the dry weather screening program; **(BMP 3-A)** and
- A list of illicit discharges to the MS4 including spills reaching the MS4. **(Appendix B)**

A. Storm drain system map

The Town has been working with the Virginia Tech Civil Engineering Department to employ GIS and GPS technology to inventory the complete storm sewer system within the Town, including stormwater management facilities. This map is complete and needs updates as new development is underway. This map includes the following:

- MS4 Outfalls
- A unique identifier for each mapped item
- MS4 Regulated Service Area
- Stormwater Management facilities (operated by the Town & private entities)
- Acreage to Outfall
- Name of Receiving Water
- 6th Order HUC of the Receiving Water
- Impaired status
- Predominant Land Use
- TMDL Name

Measurable Goals Identified and Achieved:	Years Achieved				
Confirmation that MS4 map and information table have been updated to reflect any known changes prior to July 1 of this reporting period.	2018	2019			
Report the number of outfalls screened.	2018	2019			
List of Illicit Discharges	2018	2019			
Progress Toward Meeting Objectives of Permit					
CONFIRMATION STATEMENT: <i>The Town of Blacksburg has updated the MS4 map and information table to reflect all known changes prior to July 1, 2020.</i>					
In this reporting period 60 MS4 outfalls were screened. There were 12 reported illicit discharges during this reporting period. They are included in the Illicit Discharges Table in Appendix B.					
Proposed Changes to BMP or Measurable Goals					
None proposed.					
Program Plan Goal Addressed by this BMP					
To develop and maintain and accurate MS4 map.					

B. Physical Interconnections

The Town will also provide written notification to adjacent MS4s of any known physical interconnections.

Measurable Goals Identified and Achieved:	Years Achieved				
Provide written notification to adjacent MS4s of interconnections	2018	2019			
Progress Toward Meeting Objectives of Permit					
No new physical interconnections were discovered or constructed during this permit cycle.					
Proposed Changes to BMP or Measurable Goals					
None proposed.					
Program Plan Goal Addressed by this BMP					
To provide notification to any downstream MS4 of physical interconnections					

C. Illicit Discharge Ordinance and Procedures

The Town continues to prohibit, through ordinance unauthorized non-stormwater discharges into the storm sewer system. The Town maintains written procedures designed to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping, to the Town's MS4 system.

Measurable Goals Identified and Achieved:	Years Achieved				
Adopt an Illicit Discharge Ordinance	2018	2019			
Maintain written procedures for Illicit Discharge and Detection	2018	2019			
Record all illicit discharges and report in Annual Report	2018	2019			
Progress Toward Meeting Objectives of Permit					
<ul style="list-style-type: none"> The Town adopted an Illicit Discharge Ordinance Section 18-604 of the Town Code. It was last updated in July 1, 2014. A list of illicit discharges that occurred during the last reporting period is included in Appendix B. 					
Proposed Changes to BMP or Measurable Goals					
None proposed.					
Program Plan Goal Addressed by this BMP					
To enforce illicit discharges					

MCM4: Construction Site Runoff Control

In efforts to enforce a program to reduce pollutants in storm water runoff to the MS4 from construction activities that is compliant with the Virginia Erosion and Sediment Control program administered by the Department of Environmental Quality, the Town will provide a consistent program to address these issues. This program will establish the Town’s authority to enforce erosion and sediment control violations and document a pattern of consistent protocol of enforcement.

Program Plan Goals:

- Address sediment discharges entering the MS4 from regulated construction activities.
- Provide appropriate controls to prevent non-stormwater discharges to the MS4, such as wastewater, concrete washout, fuels and oils and other illicit discharges from construction activities.

Measures described below are intended to meet these goals as described in the Program Plan.

Control Measure #4 BMP’s:

- Maintain Enforcement Authority for Runoff Control Through ESC Ordinance
- Stormwater Pollution Prevention Controls during Construction
- Reporting of Inspections and Enforcement Actions

Annual Report Requirements:

- Total number of inspections conducted; (*BMP 4-A*) and
- The total number and type of enforcement actions implemented. (*BMP 4-C*)

A. Maintain Enforcement Authority for Runoff Control through SWM & ESC Ordinance

The Town will utilize the Erosion and Sediment Control and Stormwater ordinances to address discharges entering the MS4 from regulated construction site stormwater runoff. The Stormwater Ordinance is consistent with the state regulations and the VSMP Permit regulations. We are in the process of adopting a Virginia Erosion and Sediment Control Program (VESCP) consistent with State code. Our ESC Programmatical components are consistent with the state VESCP program, but the ESC Ordinance refers to out of date State regulatory codes.

Measurable Goals Identified and Achieved:	Years Achieved				
Adopt a Stormwater Ordinance consistent with State Requirements	2018	2019			
Adopt an Erosion and Sediment Control Ordinance referring to the correct State Code Sections	*Not Achieved	*Not Achieved			
Progress Toward Meeting Objectives of Permit					
The Town has an ESC ordinance that was codified in 2007. It still references the states code from that time. It is our goal to update the ESC Ordinance to be consistent with current state code.					
Proposed Changes to BMP or Measurable Goals					
None proposed.					
Program Plan Goal Addressed by this BMP					
<i>Schedule for Adoption of Erosion and Sediment Control Ordinance: (Revised for COVID-19 Delays that prevented the initiation of the ordinance language work.)</i>					

*Due to the upcoming regulation change due to the ESC/SWM Consolidation bill, we would like to request to implement the update to the ESC ordinance in conjunction with this legal process that is already underway. This would be our tentative schedule for a revised ESC Ordinance:
 We will begin this fall to draft the new ESC/SWM Ordinance based on the draft Consolidation bill language. This should be publicly available and in public comment period until December 2020. As the legislative session begins in March 2021, we will begin our public hearing process, which lasts 4 months, at a minimum. This would allow any changes that could occur in the legislative session to be incorporated into the language of our ordinance. This would put us on a schedule to adopt a new ESC/SWM Consolidated Ordinance on July 1, 2021, at the same time that the State code revision goes into effect. The Town would not request the use of the grace period that will be likely provided for localities, since we are currently out of compliance.*

B. Stormwater Pollution Prevention Controls during Construction

The Town implements controls to prevent non-stormwater discharges to the MS4, such as wastewater, concrete washout, fuels and oils, and other illicit discharges identified during land disturbing activity inspections of the MS4. The discharge of non-stormwater discharges other than those identified in 9VAC25-890-20 D through the MS4 is not authorized by this state permit.

Measurable Goals Identified and Achieved:	Years Achieved				
Perform SWPPP Inspections in compliance with the Pollution Prevention Plan Protocol	2018	2019			
Progress Toward Meeting Objectives of Permit					
The Pollution Prevention Plan Enforcement Protocol was completed in the last permit cycle. This protocol requires the implementation of controls to prevent non-stormwater discharges to the MS4 such as wastewater, concrete washout, fuels and oils or other illicit discharges. As part of this protocol, the Town has created several guidance documents regarding spill prevention kits and concrete washout areas that are required to be included in every approved SWPPP document. Inspections and results from the program are documented in the Town of Blacksburg MS4 Program Plan.					
The Town also performs SWPPP Inspections to confirm that construction sites are in conformance with their SWPPP and Town protocols. The Town completed 232 SWPPP inspections during this permit cycle.					
Proposed Changes to BMP or Measurable Goals					
None proposed.					
Program Plan Goal Addressed by this BMP					
Provide appropriate controls to prevent non-stormwater discharges to the MS4, such as wastewater, concrete washout, fuels and oils and other illicit discharges from construction activities					

C. Reporting of Inspections and Enforcement Actions

The Town will include in the Annual Report a summary of the total number of inspections conducted and the total number and type of enforcement actions implemented and the type. This reporting shows that the Town of Blacksburg is utilizing a consistent protocol of enforcement.

Measurable Goals Identified and Achieved:	Years Achieved				
Total ESC Inspections	2018	2019			
Enforcement Actions	2018	2019			
Stop Work Orders	2018	2019			
Progress Toward Meeting Objectives of Permit					

In the past reporting period, the Town has performed 1048 inspections, 161 Notices to Comply, 45 Letters of Violation and 0 Stop Work Orders.
Proposed Changes to BMP or Measurable Goals
None proposed.
Program Plan Goal Addressed by this BMP
Address sediment discharges entering the MS4 from regulated construction activities.

MCM5: Post Construction Stormwater Management

The Town of Blacksburg has an approved Virginia Stormwater Management Program (VSMP) program in accordance with Part I E 5 a (1) and (2). The Town will continue to address post-construction stormwater runoff that enters the MS4 from the following land disturbing activities by implementing a post-construction stormwater runoff management program 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 continue our inspection and maintenance program in accordance with Parts I E 5 b and c.

Program Plan Goals:

- To maintain written inspection and maintenance procedures in order to ensure adequate long-term operation and maintenance of stormwater facilities;
- To inspect facilities owned by private operators every five years, at a minimum.
- To inspect facilities owned/operated by the Town, once a year.
- To provide necessary maintenance for facilities owned by the Town, when needed.

Measures described below are intended to meet these goals as described in the Program Plan.

Control Measure #5 BMP's:

- A. Stormwater Facility Inspection Program
- B. Stormwater Facility Database

Annual Report Requirements:

- The number of privately owned stormwater management facility inspections conducted; **(BMP 5-A)**
- 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; **(BMP 5-A)**
- Total number of inspections conducted on stormwater management facilities owned or operated by the Town of Blacksburg; **(BMP 5-A)**
- A description of the significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee; **(Appendix C)**
- A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database; **(BMP 5-B)** and
- A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse. **(BMP 5-B)**

A. Stormwater Program

The Town of Blacksburg relies on its Stormwater Management Program as regulated under the Virginia Stormwater Management Regulations and attendant regulations. The Storm Water Management Program has procedures for plan review, inspection, enforcement, and penalties. The Town has filled a full time Stormwater Engineer position that is responsible for administering the Storm Water Management Program.

Measurable Goals Identified and Achieved:	Years Achieved				
Report number of privately owned stormwater facility inspections completed	2018	2019			
Report number of enforcement actions initiated to ensure long-term maintenance of privately owned facilities	2018	2019			
Report number of inspections conducted on facilities owned by the Town	2018	2019			
Description of maintenance, repair & retrofit of publicly owned facilities	2018	2019			
Confirmation of Construction General Permit and BMP Warehouse reporting	2018	2019			
Progress Toward Meeting Objectives of Permit					
<ul style="list-style-type: none"> • A total of 87 privately owned facilities were inspected this permit year. • There were no enforcement actions initiated to ensure long-term maintenance of private facilities, all inspections that resulted in a maintenance action was completed or a schedule for completion was provided. All facility maintenance is proceeding in compliance with our program. • Thirty-six (36) of the sixty (60) Town owned facilities were inspected this reporting year. • Twenty-seven (4) of the 36 town facilities needed non-routine maintenance upon inspection. These maintenance activities included plant replacement, erosion and rut repair, sediment and debris removal, rodent removal, tree removal, outfall repair, pipe replacement and stormwater facility retrofit. A full detail on the maintenance performed for each facility is located in Appendix C. 					
Proposed Changes to BMP or Measurable Goals					
No changes are proposed.					
Program Plan Goal(s) Addressed by this BMP					
<ul style="list-style-type: none"> • To inspect facilities owned by private operators every five years, at a minimum. • To inspect facilities owned/operated by the Town, once a year. • To provide necessary maintenance for facilities owned by the Town, when needed. 					

B. Stormwater Facility Databases

The Town of Blacksburg commits to using the DEQ Construction Stormwater Database to report each stormwater facility installed after July 1, 2014 to address the control of post-construction runoff from land disturbances for which the Town is required to obtain a stormwater general permit.

Measurable Goals Identified and Achieved:	Years Achieved				
Confirmation of Construction General Permit and BMP Warehouse reporting	2018	2019			
Progress Toward Meeting Objectives of Permit					
<ul style="list-style-type: none"> • The Town of Blacksburg confirms that for all projects that submitted a Termination form, all stormwater management facility information has been submitted to DEQ through the Virginia Construction Stormwater General Permit database. • The Town of Blacksburg confirms that we have electronically reported BMPs to the DEQ BMP Warehouse in accordance with Part I E 5 g on September 30, 2019. 					
Proposed Changes to BMP or Measurable Goals					
No changes are proposed.					

Program Plan Goal(s) Addressed by this BMP

- To inspect facilities owned by private operators every five years, at a minimum.
- To inspect facilities owned/operated by the Town, once a year.
- To provide necessary maintenance for facilities owned by the Town, when needed.

MCM6: Pollution Prevention and Good Housekeeping for Facilities Operated by the Permittee within the MS4 Service Area

The Town of Blacksburg will maintain and implement written procedures for all activities performed, such as road, street, and parking lot maintenance; equipment maintenance, and the application, storage, transport and disposal of pesticides, herbicides, and fertilizers so that the Town can do the following:

Program Plan Goals:

- Prevent illicit discharges,
- Ensure the proper disposal of waste materials, including landscape wastes,
- Prevent the discharge of wastewater or permittee vehicle wash water or both into the MS4 without authorization under a separate VPDES permit,
- Require implementation of best management practices when discharging water pumped from utility construction and maintenance activities,
- Minimize the pollutants in stormwater runoff from bulk storage areas (e.g., salt storage, topsoil stockpiles) through the use of best management practices,
- Prevent pollutant discharge into the MS4 from leaking municipal automobiles and equipment; and
- Ensure that the application of materials, including fertilizers and pesticides, is conducted in accordance with the manufacturer's recommendations.

Measures described below are intended to meet these goals as described in the Program Plan.

Control Measure #6 BMP's:

- A. Standard Operating Procedures for Town Operations
- B. SWPPPs for Town Facilities
- C. Nutrient Management Plans for Town Sites
- D. Town Contractor Pollution Prevention Methods
- E. Training Plan for Town Staff

Annual Report Requirements:

- A summary of any operational procedures developed during the reporting period; **(BMP 6-A)**
- A summary of any new SWPPPs developed during the reporting period; **(BMP 6-B)**
- A summary of any SWPPPs modified during the reporting period; **(BMP 6-B)**
- A summary of any new turf and landscape nutrient management plans developed; **(BMP 6-C)** and
- A list of the training events conducted in accordance with Part I E 6 m. **(BMP 6-E)**

A. Standard Operating Procedures for Town Operations

Measurable Goals Identified and Achieved:	Years Achieved				
Prepare operational procedures for Town Practices	2018	2019			
Update operational procedures to reflect better practices					
Progress Toward Meeting Objectives of Permit					
<p>The Town has prepared Standard Operating Procedures for the following activities:</p> <ul style="list-style-type: none"> • Stormwater Collection and Conveyance System Maintenance, • De-icing and Snow Removal, • Storage, washing and maintenance of vehicle fleets and fueling facilities, • External building maintenance, including cleaning and painting. • Proper application of fertilizer, pesticides and herbicides on municipal land as well as sediment and erosion control, landscape maintenance and vegetation disposal, and trash management for those areas. • Stormwater protection at material storage areas, heavy equipment storage areas and maintenance areas not covered under other permits. • Any other facilities that would reasonably be expected to discharge contaminated runoff. <p>This Operating Procedures Plan was approved in 2015. It was updated in 2017 and it applies to all Town employees, interns, contractors and subcontractors providing service and support for the Town's municipal operations. This plan is periodically reviewed for effectiveness, appropriateness and updated as new practices become available.</p>					
Proposed Changes to BMP or Measurable Goals					
No changes are proposed.					
Program Plan Goal Addressed by this BMP					
All goals addressed by this BMP.					

B. SWPPPs for Town Facilities

Measurable Goals Identified and Achieved:	Years Achieved				
Maintain SWPPPs for all areas developed in accordance with Part I E 6 c.	2018	2019			
Review Town owned & operated sites for changes that would require new SWPPPs	2018	2019			
Progress Toward Meeting Objectives of Permit					
<p>The Town requires a SWPPP at the Public Works Facility in accordance with Part I E 6 c. This SWPPP was developed in 2017 and is maintained on site. No changes to other Town owned and operated sites has triggered the need for additional site SWPPPs.</p>					
Proposed Changes to BMP or Measurable Goals					
No changes are proposed.					
Program Plan Goal Addressed by this BMP					
All goals addressed by this BMP.					

C. Nutrient Management Plans (NMPs) for Town Sites

Measurable Goals Identified and Achieved:	Years Achieved				
Maintain DCR-approved NMPs for all Town lands developed.	2018				
Review Town owned & operated lands for changes that would require new NMPs	2018				
Progress Toward Meeting Objectives of Permit					
<p>The Town has approved Nutrient Management Plans that were updated on January 1, 2020 for the following sites:</p> <ul style="list-style-type: none"> • Blacksburg Municipal Golf Course • Municipal Park Complex • Seneca Drive Park • Winfrey Fields 					

<ul style="list-style-type: none"> • Primrose park • Toms Creek Park <p>There are no changes to Town owned and operated lands that would require new Nutrient Management Plans. The Town has acquired two new parks, the Municipal Bike park and the Meadows park. Neither of these parks has nutrients applied; therefore they do not require NMPs.</p>
Proposed Changes to BMP or Measurable Goals
No changes are proposed.
Program Plan Goal Addressed by this BMP
Ensure that the application of materials, including fertilizers and pesticides, is conducted in accordance with the manufacturer's recommendations.

D. Town Contractor Pollution Prevention Methods

Measurable Goals Identified and Achieved:	Years Achieved			
Provide a summary of mechanisms the Town uses to ensure contractors working on behalf of the permittees implement the necessary good housekeeping and pollution prevention.	*Not Achieved	*Not Achieved		
Progress Toward Meeting Objectives of Permit				
The Town is currently working on additional legal and programmatic mechanisms that would ensure contractors working on behalf of the Town that necessary good housekeeping and pollution preventions are being followed. Currently this is being conveyed to them verbally, but the legal mechanisms have not been put in place.				
Proposed Changes to BMP or Measurable Goals				
No changes are proposed.				
Program Plan Goal Addressed by this BMP				
All goals addressed by this BMP.				

E. Training Plan for Town Staff

Measurable Goals Identified and Achieved:	Years Achieved	
Report a list of training events including the following: <ul style="list-style-type: none"> • The date of the training event; • The number of employees who attended the training event; and • The objective of the training event. 	2018	2019
Progress Toward Meeting Objectives of Permit		
The Training plan for Town Staff is included in Appendix D. New training protocols are being created for Public Works, Parks and Recreation and Emergency Services staffs. The Engineering Department and Landscaping staff have continued with their current training programs.		
Proposed Changes to BMP or Measurable Goals		
No changes are proposed.		
Program Plan Goal Addressed by this BMP		
All goals addressed by this BMP.		

TMDL Special Conditions

TMDLs for both the Stroubles Creek and Upper Roanoke River watersheds were approved prior to the July 1, 2013 effective date of the prior General Permit. No new TMDLs have been approved between 2013 and 2018. The TOB currently has the following WLAs associated with a TMDL:

- 211 tons/year sediment to Stroubles Creek (aggregate WLA)
- 102 tons/year sediment to Upper Roanoke River watershed
- 3.15E+09 cfu/year bacteria (E coli) to Wilson Creek/ Upper Roanoke River watershed
- 7.8 mg/yr of polychlorinated biphenyl to the Roanoke River watershed

The Town of Blacksburg has implemented a local TMDL Action Plan designed to reduce loadings for the specific pollutants of concern listed in each impaired watershed.

Program Plan Goals:

- Maintain a local TMDL Action Plan for waters with approved TMDLs prior to June 30, 2018.
- Complete implementation of the TMDL Action Plans.

Measures described below are intended to meet these goals as described in the Program Plan.

BMPs for TMDL Special Conditions:

A. TMDL Action Plan Actions

Annual Report Required Items:

- Summary of actions conducted to implement the local TMDL Action Plan. **(BMP TMDL-A)**

A. TMDL Action Plan Actions

Measurable Goals Identified and Achieved:	Years Achieved	
Provide a summary of actions completed as part of the TMDL Action Plan.	2018	2019
Progress Toward Meeting Objectives of Permit		
The following activities were completed as part of the TMDL Action Plan:		
<ul style="list-style-type: none"> • MS4 Program Plan Implementation • Storm Drain Painting Contest (3 High-visibility Storm Drains were painted). • Stormwater facility retrofit (1 Stormwater Facility was retrofit to include water quality measures.) • Confirmed funding for a Stream Restoration Project. The design will occur in reporting year 2020. • Street Sweeping (Street sweeper AS-606 ran 1,560 miles). • Incorporated additional controls for hydraulic fluid containment on active construction sites. • Identified areas with historic railyard use as a source of PCB contamination. 		
Proposed Changes to BMP or Measurable Goals		
No changes are proposed.		
Program Plan Goal Addressed by this BMP		
Complete implementation of the TMDL Action Plans.		

Appendix A: Summary of Stormwater Complaints & Other Public Input (2019-20)

#	Contact Date	Name	Address	Street Name	Phone #	Email	Summary of Concern	Staff	Resolution	Resolution Date
1	02-Jul-19	Javad Torabinejad	1600	Winslow Dr.	540-200-9282	jtorzbinejad@yahoo.com	Dear Kafi, Today, during the TC work session, Ms. O'Shea mentioned that a stormwater concept plan had been approved for the OBHS development. I appreciate it if you please provide me with a copy as there is none posted so far online. Regards, Javad	Randy Formica	Javad, Thank you for letting us know that the OBHS stormwater concept plan was not posted online. It is not available on the Town's website with the OBHS rezoning documents. Randy Formica, PE, ENV SP, Director Engineering and GIS Department http://www.b	05-Jul-19
2	08-Jul-19	Douglas White	760	Triangle Cir		dawdesigns@gmail.com	Hello Susan, Below I have attached 520 Patrick Henry Dr Staff Report to help me illustrate why opening Sewage and Stormwater Manholes along the route between downtown and OBHS is important to Citizens. The specific pages of concern are as follows. Page 1	Kafi Howard	Reached out to citizen via email to discuss these issues. The perceived flooding at Owens Park is due to the fact that the site is also used as a regional stormwater facility during storm events. Therefore it is designed to flood. Public works has perf	09-Jul-19
3	14-Aug-19	Kyle White	106	Oak Meadow Ln.	(540) 739-5098	kwwhite@vt.edu	Kafi, I believe you and Claire have previously corresponded about the ongoing water line construction behind our property at 106 Oak Meadow Lane. I had the opportunity to speak with Jim Lucas yesterday regarding remaining construction activities. I unders	Kafi Howard	Developer was required to install the stormwater conveyance channel per the design.	26-Aug-19
4	14-Aug-19	Javad Torabinejad	1600	Winslow Dr.	(540) 200-9282	jtorabinejad@yahoo.com	Please let me know the legal reference that the Town uses for "predevelopment".	Kafi Howard	Page 41 of the DEQ Stormwater Management Program Regulations were sent via email.	14-Aug-19
5	03-Oct-19	Chris Scaggs	2700	Prosperity Dr	540-443-1206	cscaggs@blacksburg.gov	Clay Corner Inn is discharging their pool water.	Kafi Howard	Staff performed a site visit (10/3/19) and spoke to the Clay Corner manager. He has let the pool sit vacant w/o chemicals for three weeks and has tested the chlorine. Reading are at zero. Draining the pool for seasonal end.	03-Oct-19
6	03-Oct-19	Joe Parrish	400	Airport Rd.	540-239-8508	joe.cqs@gmail.com	I'd be interested in following up on the stormwater issue at the corners of Dunton/Airport. A field visit might be the next step and (taking advantage of Fall pick-up this week) I've been beating back the bambo, so we might actually be able to get to whe	Kafi Howard	Site visit was organized.	07-Oct-19
7	07-Oct-19	Lauren Burton	321	Edge Way	540-552-3343	lburton@cmgleasing.com	At the Corner of Webb St and Meadow Drive, the creek is stopped up with a large tree limb. It is blocking the box culvert.	Kafi Howard	Referred to PW for branch removal.	

8	17-Oct-19	Javad Torabinejad	722	Church St.	540-200-9282	jtorabinejad@yahoo.com	Dear Kafi, Please find attached images taken yesterday from surrounding areas of the Habitat for humanity development indicating issues with sediment control measures. Regards, Javad	Kafi Howard	Forwarded to D. Shaver & D. Davis (ESC Inspectors) All ESC measures have been corrected.	23-Oct-19
9	23-Oct-19	Javad Torabinejad	1304	Mary Jane Circle	540-200-9282	jtorabinejad@yahoo.com	Dear Kafi, It seems there are no sediment control measures in place for the construction activity next to the Moog Family Health Center; in fact, this has been the case from the beginning of that project! Thus, much sediment has ended up in the Stroubles	Kafi Howard	Forwarded email to C. Scaggs (Public Works/Utilities) - he requested that John Boyer (Pulic Works/Drainage) provide some additional ESC measures.	23-Oct-19
10	23-Oct-19	Javad Torabinejad	1600	Fiddlers Green (no address provided)	540-200-9282	jtorabinejad@yahoo.com	Dear Kafi, Good morning. There are several construction sites around Fiddler's Green whose stormwater sediment control practices need improvement and checked especially prior to the upcoming weekend's rainstorm. Regards, Javad	Kafi Howard	Referred this to D. Shaver & D. Davis - waiting on inspection results	
11	04-Nov-19	Javad Torabinejad	1600	Winslow Dr	5402009282	jtorabinejad@yahoo.com	Dear Kafi, Good morning. Please find attached a couple of pictures showing muddy water leaving the the Midtown development site during the recent rain event onto Clay St (Image 1) and the corner of Penn St and Washington St (Image 2). Obviously, I had n	Kafi Howard	Staff was aware of this issue and had met with the adjacent property owner and performed a site visit. An unknown remnant pipe was preventing site water from filtering through the sediment trap. This pipe has been removed.	08-Nov-19
12	11-Nov-19	Javad Torabinejad	1600	Winslow Dr	5402009282	jtorabinejad@yahoo.com	Good morning Kafi, Please find attached a few pictures recently taken from Ms. Lambert's pond showing sediment buildup. As I mentioned in my phone message in certain areas of the pond the sediments are several feet deep! You may use these pictures for t	Kafi Howard	Town has stated some interest in reviewing this location for a grant project, but the deadline for SLAF FY20 applications is 11/29 and staff has communicated with Mr. Torabinejad that there is not enough time to review and submit prior to this deadline wi	28-Nov-19
13	12-Nov-19	Javad Torabinejad	1600	Winslow Dr	5402009282	jtorabinejad@yahoo.com	Dear Kafi, Under what conditions stormwater fees are waived? Please include types of developments and organizations (i.e. non-profit etc). Thanks. Regards, Javad	Kafi Howard	Staff and Attorneys office provided the legal terms for waiving a stormwater fee. Turns out that there had been an article in the newspaper stating that a local non-profit had its stormwater fee waived, and that was not correct. The local non-profit was	14-Nov-19

14	22-Nov-19	Javad Torabinejad	1600	Winslow Dr	5402009282	jtorabinejad@yahoo.com	Dear Kafi, There exists a chance of sediment release at the 1222 Patrick Henry Dr development site during the Saturday storm. That happened to some extent during last rainstorm. The current construction situation further increases the possibility. Alth	Kafi Howard	A request for inspection was sent out on 11/22 to ESC inspectors. An inspection was performed on 11/25/19 and site was in compliance.	25-Nov-19
15	01-Dec-19	Javad Torabinejad	1600	Winslow Dr	5402009282	jtorabinejad@yahoo.com	Dear Kafi, As predicated, the sediment release from the Midtown development continues. Please find attached a couple of pictures taken earlier today. The first one shows the flow out of the property and the second one shows the flow affecting water qual	Kafi Howard	Javad, I wanted to follow up with you regarding your email from Sunday. Our staff has performed a follow-up inspection of the Midtown mass grading site (aka OBMS). All measures are designed per the state standards and appear to be constructed according	
16	13-Jan-20	Javad Torabinejad	1222	Patrick Henry Dr	5402009282	jtorabinejad@yahoo.com	Dear Kafi, Yesterday, I checked the pond below the 1222 Patrick Henry Dr. development and saw muddy water in the pond (attached image). I could see the same the night before in the Webb St. channel. I appreciate it if you please check the silt fences an	Kafi Howard	Our inspector has visited the site on Patrick Henry (Park-37) and has directed them to fix their silt fence. They should be working on it shortly.	14-Jan-20
17	14-Jan-20	Javad Torabinejad	880	University City Blvd (among others)	5402009282	jtorabinejad@yahoo.com	Dear Kafi, Hello. I have the following questions: 1) There is a construction site right in front of the Starbucks store on University City Blvd. Do you know who is doing the work? Are they exempt from providing silt control measures? 2) Recently I atte	Kafi Howard	Javad, I wanted to respond to your email from last week, sorry for the late response. The project along University City Boulevard is being provided by DCI Shires. They are replacing road signal for the Town. The bulk of the disturbance is the rebuildi	22-Jan-20
18	17-Jan-20	Javad Torabinejad	1600	Winslow Dr	5402009282	jtorabinejad@yahoo.com	Dear Kafi, I appreciated if you please let me know what the "Toms Creek Stream Restoration Design", as stated on page 150 in the proposed CIP, entails. Is that the only expenditure for that watershed? If not what other projects are proposed and how much	Kafi Howard	Javad, The Toms Creek Stream Restoration Design is intended to address erosion along the entire Toms Creek Corridor, primarily in the channel between the Toms Creek Road crossing at the ballfield and the Eyre pond. The money set aside in the budget is f	29-Jan-20
19	04-Feb-20	Javad Torabinejad	1600	Winslow Dr.	(540) 200-9282	jtorabinejad@21.com	Hello Kafi, There exists a sediment release problem/potential at a new construction site located at the intersection of Devon Ln and Artis Ct. Regards, Javad	Kafi Howard	Javad, I have notified our inspectors and they will be out to look at the site this morning. Thanks Kafi	05-Feb-20

20	06-Feb-20	Javad Torabinejad	1600	Winslow Dr.	(540) 200-9282	jtorabinejad@yahoo.com	Dear Kafi, Early this morning, I noticed sediment release from the Terrace View and 1222 Patrick Henry Dr. construction sites. As a result the creek on Webb St is running muddy. Regards, Javad	Kafi Howard	Added to the days ESC Inspection list. Inspector followed up.	06-Feb-20
21	17-Jun-20	Javad Torabinejad	1600	Winslow Dr.	(540) 200-9282	jtorabinejad@yahoo.com	ESC complaint. Only a picture was sent.	Kafi Howard	Added to the inspection list 6/18/2020.	18-Jun-20

Appendix B: List of Illicit Discharges

Illicit Discharges for 2019-20 Permit Year

The Town has established an ordinance to prohibit illicit discharges that was adopted by Town Council in spring of 2008 and again in 2014 as part of a Comprehensive Stormwater Ordinance. The Town will track and enforce all known instances of illegal dumping and illicit discharges in a GIS database. The GIS database will be used to detect trends and identify repeat offenders.

Last reporting period, the Town had **17** confirmed illicit discharges and 1 unconfirmed discharge. The standardization of the illicit discharge protocol has established a guideline for scheduling, identifying and eliminating illicit discharges. All actions have been in conformance with this protocol.

Date	Type	Severity	Notification	Contact List	Response	Enforcement	Actions	Status	Site Name
8/7/2019	SSO	Minor - no impact to MS4	Reported to TOB PW	TOB Public Works	Site visit; clean-up	Site visit; clean-up	Clean-up. Area sanitized.	Closed 8/7/2019	705 Ellett Rd.
9/3/2019	Grease Discharge	Minor - no impact to MS4	Reported to TOB Building Dept	Building Dept. & Property Owner	Site visit; clean-up	Letter of Violation	Clean-up. Owner education.	Closed 10/22/19	Cabo Fish Taco 117 S Main St
9/18/2019	SSO	Major - surface waters impacted	Reported to TOB PW	TOB Public Works	Force main cut by contractor. Site visit; clean-up	None	Clean-up. Detention pond area sanitized.	Closed 9/18/2019	1222 Patrick Henry Dr.
10/3/2019	Surface Oil Spill (Fuel Oil #2)	Minor - no impact to MS4	Reported to DEQ website	DEQ	Remediation under PC 2020-2180.	None	Unknown	Closed Unknown date (DEQ)	303 Apartment Heights Dr.
10/31/2019	SSO	Major - surface waters impacted	Reported to TOB PW	TOB Public Works	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 10/31/2019	Owens Park & Detention Pond
1/6/2020	SSO	Major - surface waters (likely) impacted	Reported to TOB PW	TOB Public Works	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 1/6/2020	Marlington St & Emerald St
1/14/2020	SSO	Unverified	Reported to TOB PW	TOB Public Works	Site visit	None	No evidence of overflow. No actions.	Closed Discharge never confirmed.	Owens Park & Detention Pond
1/17/2020	Heavy Oil Residue	Minor - no impact to MS4	Reported to TOB Engineering	Engineering, Property Owner	Site visit; Sent an	Letter of Violation	Owner cleaned up area.	Eliminated 2/15/2020	University Crossroads Dumpster Areaa

					enforcement letter.				
1/24/2020	SSO	Minor - no impact to MS4	Reported to TOB PW	TOB Public Works	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 1/24/2020	500 S Main St.
1/28/2020	SSO	Minor - no impact to MS4	Reported to TOB PW	TOB Public Works	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 1/28/2020	516 Sunridge Dr.
2/7/2020	SSO	Major - surface waters impacted	Reported to TOB PW	DEQ	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 2/7/2020	309 Apartment Heights Dr.
2/7/2020	SSO	Major - surface waters impacted	Reported to TOB PW	DEQ	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 2/7/2020	1508 Bradley – Murphy Pump Station
3/12/2020	SSO	Minor - no impact to MS4	Reported to TOB PW	TOB Public Works	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 3/12/2020	2306 San Marcos St
4/14/2020	SSO	Major - surface waters impacted	Reported to TOB PW	DEQ	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 4/14/2020	201 McDonald St.
4/18/2020	SSO	Minor - no impact to MS4	Reported to TOB PW	DEQ	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 4/18/2020	1500 Hounds Chase Ln.
5/8/2020	Gasoline Leak	Moderate - Reached MS4 System	Reported to TOB Engineering	TOB Engineering Works	Site visit. Visually confirmed several areas of oil sheen in multiple locations within the parking lot. Unable to identify what vehicle was leaking. Employees	None	None.	Closed. 7/30/2020	Gables Shopping Center – S. Main St.

					stated that truck had exited the parking lot.				
5/19/2020	SSO	Minor - no impact to MS4	Reported to TOB PW	DEQ	Site visit; clean-up	None	Clean-up. Area sanitized.	Closed 5/19/2020	409 Seminole Dr.
6/29/2020	Discolored water, blue water	Major - surface waters impacted	Reported to TOB Engineering	Engineering, DEQ	Site visits on 6/29, 7/14, and 7/28	None.	Never identified source of blue tint. Possible an algaecide upstream discharging into the creek during storm events.	Closed 8/1/2020.	Tributary of Toms Creek at Deerfield Subdivision

Appendix C: Maintenance Performed on Town-Owned/Operated Stormwater Facilities

#	Type	Owner	Location	Inspected	Maintenance Needed
6	Dry Detention Pond	Town of Blacksburg	Maple Ridge Phase 3	1/30/2020	Erosion Repair, Vegetation off the embankment removed
12	Dry Detention Pond	Town of Blacksburg	Northside (undeveloped park)	8/12/2019	Routine
15	Dry Detention Pond	Town of Blacksburg	Shenandoah	12/1/2019	Erosion Repair
16	Dry Detention Pond	Town of Blacksburg	Shenandoah	1/30/2020	Erosion Repair
21	Dry Detention Pond	Town of Blacksburg	Collegiate Suites	1/15/2020	None
22	Dry Detention Pond	Town of Blacksburg	Owens Street Park	1/31/2020	Debris Removal
24	Dry Detention Pond	Town of Blacksburg	Francis Lane Lower	12/15/2019	Routine
24	Dry Detention Pond	Town of Blacksburg	Francis Lane Upper	12/15/2019	Routine
32	Dry Detention Pond	Town of Blacksburg	Golf Course (graves ave)	12/10/2019	Rock Removal - Routine
37	Dry Detention Pond	Town of Blacksburg	Village at Toms Creek No. 2	1/12/2020	Routine
144	Extended Detention Basin	Town of Blacksburg	Blacksburg UCB Improvements and SWM retrofit	9/23/2019	Debris Removal
49	Dry Detention Pond	Town of Blacksburg	Trillium Place No. 1	1/30/2020	Invasives Removed
49	Dry Detention Pond	Town of Blacksburg	Trillium Place No. 2	1/30/2020	Invasives Removed
153	Dry Detention Pond	Town of Blacksburg	Karr Heights Pump Station	2/3/2020	Tree Removal
127	Dry Detention Pond	Town of Blacksburg	Interchange 3A - 21D-1	8/15/2019	Routine

#	Type	Owner	Location	Inspected	Maintenance Needed
79	Dry Detention Pond	Town of Blacksburg	Blacksburg Transit	1/30/2020	Routine
159	Dry Detention Pond	Town of Blacksburg	Blacksburg Stadium	2/3/2020	Routine
108	Bioretention	Town of Blacksburg	Community Center Patrick Henry Drive	4/14/2020	Routine
108	Bioretention	Town of Blacksburg	Community Center Patrick Henry Drive	4/14/2020	Mulch Layer Removed and Ponding Area Regenerated
108	Dry Detention Pond	Town of Blacksburg	Community Center Patrick Henry Drive	1/31/2020	Routine
143	Bioretention	Town of Blacksburg	407 Hubbard St - Fire Station South	4/14/2020	Plant Replacement
141	Underground Detention	Town of Blacksburg	Floyd - Montgomery Regional Library	8/16/2019	None
140	Extended Detention	Town of Blacksburg	Progress/Givens Extension Project	6/22/2020	Routine
140	Wet Pond	Town of Blacksburg	Progress/Givens Extension Project	6/22/2020	Routine
174	Dry Detention Pond	Town of Blacksburg	Community Center Patrick Henry Drive	1/31/2020	Routine
174	Bioretention	Town of Blacksburg	Community Center - Kaboose Park Entrance Road	4/14/2020	Routine
214	Water Quality Swale	Town of Blacksburg	Blacksburg Rescue Squad Building	4/14/2020	Erosion Channels, Repair Weir, New Mulch
218	Bioswale	Town of Blacksburg	Progress Street Parking Lot	4/14/2020	Routine
41	Bioretention	Town of Blacksburg	Wilson Ave.	4/14/2020	Plant Replacement
41	Infiltration Practices	Town of Blacksburg	Wong Park - Wilson Avenue	4/14/2020	Routine
214	Permeable Pavement	Town of Blacksburg	Blacksburg Rescue Squad Station	4/14/2020	Routine
214	Pervious Pavement	Town of Blacksburg	Blacksburg Rescue Squad Building	4/14/2020	Routine

#	Type	Owner	Location	Inspected	Maintenance Needed
109	Dry Detention Pond	Town of Blacksburg	Public Works Inert Debris Site	8/15/2019	Routine
257	Compost Amended Soils	Town of Blacksburg	Huckleberry Trail - Linwood	1/17/2020	Routine
260	Dry Detention Pond	Town of Blacksburg	Airport Acres Park	8/27/2019	Routine
6	Dry Detention Pond	Town of Blacksburg	Maple Ridge Phase 3	1/30/2020	Erosion Repair, Vegetation off the embankment removed
12	Dry Detention Pond	Town of Blacksburg	Northside (undeveloped park)	8/12/2019	Routine
15	Dry Detention Pond	Town of Blacksburg	Shenandoah	12/1/2019	Erosion Repair
16	Dry Detention Pond	Town of Blacksburg	Shenandoah	1/30/2020	Erosion Repair
21	Dry Detention Pond	Town of Blacksburg	Collegiate Suites	1/15/2020	None
22	Dry Detention Pond	Town of Blacksburg	Owens Street Park	1/31/2020	Debris Removal
24	Dry Detention Pond	Town of Blacksburg	Francis Lane Lower	12/15/2019	Routine
24	Dry Detention Pond	Town of Blacksburg	Francis Lane Upper	12/15/2019	Routine
32	Dry Detention Pond	Town of Blacksburg	Golf Course (graves ave)	12/10/2019	Rock Removal - Routine
37	Dry Detention Pond	Town of Blacksburg	Village at Toms Creek No. 2	1/12/2020	Routine
144	Extended Detention Basin	Town of Blacksburg	Blacksburg UCB Improvements and SWM retrofit	9/23/2019	Debris Removal

Appendix D: Schedule of Staff Training

Appendix E: Schedule of Training for 2019-20			
Applicable Staff	Certifications (date)	Training Classes	Attendees
Engineering Staff - Engineer – Stormwater (1) Engineer – Construction (1) Inspector - Utility and ESC (1) Inspector – ESC (1)	Dual ESC/SWM Combined Administrator PE (ESC Plan Reviewer) Dual ESC/SWM Inspector ESC Inspector	ESC/SWM Training	
		EPA Region 3 MS4 Forum (10/21/19 -10/23/19) Richmond	1
		Is Soil Compaction Really That Bad? (webinar (11/14/2019)	3
		VWEA Stormwater Lunch&Learn (12/12/19) Inspecting Non-Std Practices: 4/18/19	2 1
Emergency Services Staff - Fire - 2 employees (50 volunteers) Rescue – no employees (volunteer only) Police Captains (2) Alfa, Bravo, Charlie, Delta Shift(s) – (16) Investigations (8) Community Services (7)	Hazmat Awareness and Operations (online) Hazmat Awareness and Operations (online)	Spill Response for Emergency Services Currently 75% of Emergency Services staff currently has had this training.	38
		Scheduled Training for 2020-21 The additional 25%(12) is scheduled to complete the training. (online)	12
Horticulturist (1) Horticulture Crew (3)	Certified Fertilizer Applicator (CFA) Training	Fertilizers, Pesticides and Landscaping Material Waste (online training)	4
Parks Staff – Director & Assistant Director of Parks and Recreation (2) Golf Course Supervisor and staff (4) Outdoor Programs Supervisor (1) Athletic Supervisor (1) Community Programs/Special Events Supervisor (1)		Illicit Discharge Prevention Golf Course/Cemetery Maintenance	
Public Works Staff – Sustainability Manager (1) Water & Wastewater Crews (10) Field Operations Crews (24) Fleet Operations Staff (3) Blacksburg Transit Management (8)		Operations and Maintenance Trainings	
		Illicit Discharge Prevention	7
		Wastewater Prevention	2
		Municipal Wash Water	5
		Utility, Construction & Maintenance	
		Bulk Storage Area Discharge Prevention	
		Municipal Automobiles & Equipment Discharge Prevention	3

