George Mason University's

MS4 Program Plan

Permit Number VAR040106

Updated May 2025



Prepared for:

George Mason University
Mason Facilities
4400 University Drive, MSN 2C1
Fairfax, Virginia 22030

Prepared by:

Bowman Consulting Group 13461 Sunrise Valley Drive, Suite 500 Herndon, Virginia 20170



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ACCRONYMS AND ABBREVIATIONS

Abbreviation/ Acronym	Term
AS&S	Annual Standards and Specifications
ВМР	Best Management Practice
CWA	Clean Water Act
CWP	Northern Virginia Clean Waters Partners
DEQ	Virginia Department of Environmental Quality
EHS	Environmental, Health, & Safety
EPA	Environmental Protection Agency
ESC	Erosion and Sediment Control
FM	Facilities Management
GIS	Geographic Information System
GPS	Global Position System
IDDE	Illicit Discharge Detection and Elimination
Mason	George Mason University
Mason LD	George Mason University Land Development
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
ORI	Outfall Reconnaissance Inventory
POC	Pollutants of Concern
SWPPP	Stormwater Pollution Prevention Plan
SWM	Stormwater Management
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
VDOT	Virginia Department of Transportation
VPDES	Virginia Pollutant Discharge Elimination System
VSMP	Virginia Stormwater Management Program

I. BACKROUND

Controlling the quality and quantity of stormwater in urbanized areas has become of greater concern since the passage of the Clean Water Act (CWA). Despite earlier attempts to address water pollution, it was not until 1972 that the Environmental Protection Agency (EPA) was given the authority to develop and implement a stormwater management program, which regulates the number of pollutants being discharged into U.S. water bodies. In response to amendments to the CWA, in 1990 the EPA created an enforcement management mechanism called the National Pollutant Discharge Elimination System (NPDES). With the implementation of the NPDES, it became obligatory for all operators of a Municipal Separate Storm Sewer System (MS4) who intend to discharge stormwater into surface waters to obtain a NPDES permit. Depending on the size of the municipality, the NPDES issued Phases I and Phase II Final Rule. Phase I requires a NPDES permit for medium and large cities or municipalities with populations greater than 100,000, industrial activities, and construction activities that disturb five or more acres. Phase II requires a NPDES permit holder to implement programs and practices to control and minimize polluted runoff for small MS4s and small construction sites. The EPA delegated the regulatory authority and oversight of the NPDES programs to the State governments. As authorized under the State Water Control Law and the federal Clean Water Act, the Virginia Pollutant Discharge Elimination System (VPDES) permitting program regulates point source pollution, which is administrated by Virginia Department of Environmental Quality (DEQ).

II. EXECUTIVE SUMMARY

Stormwater discharges within George Mason University (Mason) are regulated under the terms of Virginia Pollutant Discharge Elimination System, (VPDES) General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer System (MS4) (General Permit No. VAR040106). This MS4 permit is issued to Mason by Virginia Department of Environmental Quality (DEQ), consistent with the provisions of Section 402 of the Clean Water Act and the Virginia Stormwater Management Act, which authorizes the Virginia Stormwater Management Program (VSMP) regulations.

The initial MS4 permit was issued to Mason on July 9, 2008, for permit year 2008-2013. This permit covers both the George Mason University Main Campus in Fairfax County, Virginia and Mason's Science and Technology Campus (SciTech Campus) in Prince William County, Virginia. The second permit was issued on July 2, 2013, for the permit year 2013-2018, and the third permit was issued October 31, 2018, effective November 1, 2018 to October 31, 2023. The fourth and current permit was issued on November 8, 2023, with the effective date of November 1, 2023, and an expiration date of October 31, 2028.

Since the commencement of the permit coverage, Mason has been implementing permit requirements and continues to work on improving existing control measures developed to reduce the discharges of pollutants into the MS4.

To achieve the required water quality goals, the MS4 permit requires Mason to control the discharges of pollutants by addressing the following six minimum control measures (MCM):

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

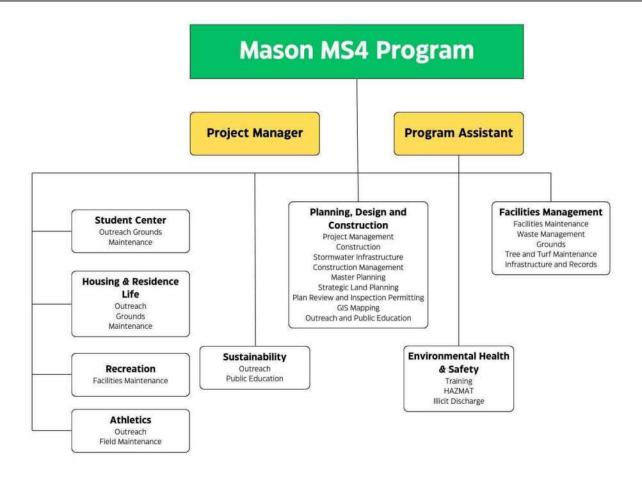
In addition, the MS4 permit includes special conditions to address Chesapeake Bay Total Maximum Daily Load (TMDL). Mason is required to develop and implement a TMDL Action Plan for the Chesapeake Bay TMDL to achieve the approved pollutant reduction goals through implementations of best management practices (BMP).

The MS4 permit also addresses DEQ BMP Warehouse Reporting. Electronic reporting of all best management practices (BMPs) implemented and inspected, as applicable, is required every year. This is a new standard for the 2023-2028 permit.

Therefore, it is the intent of this document to establish and define Mason's MS4 program and demonstrate Mason's plan to meet the permit requirements through October 31, 2028. Due to the extent and scale of the new permit requirements, Mason is required to update the Program Plan no later than six months after the effective date of the permit (November 1, 2023). The Program Plan will be a "living" document, with the major updates corresponding with the annual report submittals.

III. ORGANIZATION OF MASON STORMWATER MANAGEMENT PROGRAM

While stormwater activities and functions are divided among several different departments and divisions, George Mason University's Land Development (Mason LD) has the primary responsibility for overall compliance with the permit. MS4 permit compliance activities are coordinated with the Environmental Health and Safety Office (EHS), Facilities Management (FM) and other Mason units. While Mason LD is the responsible for overall program compliance, including annual report submittal, several other departments and divisions play important roles in implementing the MS4 permit. These departments are shown in the following organization chart.



IV. DESCIRPTION OF MS4 DRAINAGE AREA

Mason's MS4 Permit covers two separate Northern Virginia campuses in Fairfax and Prince William Counties, which are located in the Potomac watershed within the larger Chesapeake Bay watershed.

The Fairfax Campus consists of approximately 585 acres of developed and undeveloped land comprised of academic buildings, research facilities, residential buildings, auxiliary buildings, and athletic facilities. Approximately 220 acres drain to Popes Head Creek. The remaining 365 acres drain to Pohick Creek. The Fairfax Campus is physically interconnected to the MS4's of Fairfax County, City of Fairfax, and the Virginia Department of Transportation (VDOT). The interconnected MS4 map of Fairfax County is shown in Figure 1 under Exhibits.

The Science and Technology Campus (SciTech Campus) is located in Prince William County and consists of approximately 135 acres of developed and undeveloped land that includes academic buildings, research facilities, auxiliary buildings, and athletic facilities. All 135 acres are within the Broad Run drainage area. Interconnections between the Science and Technology campus and other MS4s (including Prince William County and VDOT) are

depicted in Figure 2 under Exhibits.

Currently, over 39,500 students attend Mason with approximately 6,000 living on the main campus in Fairfax, Virginia. Mason anticipates continued growth in enrollment in the future.

V. STORM WATER COLLECTION AND CONVEYANCE SYSTEM

All stormwater structural controls and conveyance features are depicted on the campus stormwater maps. The stormwater map including stormwater BMPs is available on the Mason LD website.

The maps are based on construction drawings and survey data collected by Mason personnel for record drawings verification. The stormwater maps are regularly updated as land use changes, or as necessary, based on the information from new projects as-builts (record drawings), as well as field/survey data.

A complete stormwater system is currently mapped and maintained by Facilities Management. The MS4 map, represented Interactive GIS Stormwater System map on the Mason LD website, is periodically reviewed and updated with construction activities. These updates include the removal of the existing stormwater facilities and/or addition of newly constructed stormwater management facilities, piping and outfalls which are added to the existing GIS mapping system.

The stormwater map of the Fairfax Campus encompasses roughly 680 drain inlets and 16 miles of storm sewer pipe. The Fairfax Campus storm sewers discharge into Popes Head Creek and Pohick Creek via approximately 50 internal outfalls.

Drainage from the SciTech Campus is captured by roughly 50 inlets and transported through two miles of storm sewer pipes into a tributary to Cannon Branch via approximately ten outfalls.

VI. SPECIAL CONDITION FOR THE CHESAPEAKE BAY TMDL

The MS4 permit for Mason includes special conditions to address the Chesapeake Bay TMDL. It requires Mason to implement necessary reductions to meet the Level 2 (L2) scoping run for the existing developed lands.

For compliance with the first permit cycle ending June 30, 2018, Mason utilized credit from existing oversized stormwater best management practices (BMPs) and implemented 320 feet of urban stream restoration on the Fairfax Campus. This provided reductions above and beyond the 5% requirement for the Phase 1 TMDL Action Plan. These additional reductions were credited toward the Phase 2 TMDL Action Plan reduction requirements.

For compliance with the second permit cycle, Mason developed the Phase 2 TMDL Action Plan. Based on the reduction credits from the first permit cycle, the focus of the Phase 2 TMDL Action

Plan was on practices that primarily efficiently remove nitrogen. Mason started the stream restoration design in 2021 for the 1,885 linear feet stream restoration project upstream of Mason Pond, which would provide adequate credits to meet both Phase 2 and Phase 3 Chesapeake Bay TMDL requirements. Mason completed the design and permitting and began construction in June 2022, reaching substantial completion in December 2022. Mason has confirmed the POC credits, which achieved and exceeded the reduction goals for both Phase 2 and Phase 3.

As such, Mason has completed the Chesapeake Bay TMDL Special Conditions for a total 100% restoration from the baseline.

The Phase 3 Chesapeake Bay TMDL action plan is available on Mason LD website.

VII. MINIMUN CONTROL MEASURES

The following sections describe the best management practices (BMP) that Mason plans to utilize and implement to meet each of the six minimum control measures.

1. Public Education and Outreach on Stormwater impacts

The MS4 program at Mason seeks to alert students, faculty, staff, and campus visitors to the impacts of stormwater runoff on water quality through free training sessions, workshops, and the distribution of educational materials. The public outreach program at Mason also provides guidance on how the community can help in minimizing adverse impacts of urban runoff in waterways.

Mason utilizes existing programs, organizations, boards, and committees within the community to implement public education activities. The Public Education and Outreach program at Mason uses existing forums and outreach materials established by the EPA and Northern Virginia Clean Water Partners (CWP), in addition to educational brochures and materials developed by Mason staff. These materials are widely distributed by Mason staff members at various events and meetings. As a member of the Northern Virginia Clean Water Partners (CWP), Mason participates in the CWP education campaign through a multi-media approach.

High-priority Water Quality Issues, Target Audience and Relevant Messages

Mason and CWP have determined the high priority regional water quality issues that contribute to the pollution of stormwater runoff at Mason as bacteria, nutrients, and motor oil/chemical contaminants. These high priority water quality issues are listed below along with the rationale for their selection.

Bacteria: Bacteria pollution in stormwater runoff comes from leaking sanitary sewer pipes, wildlife (i.e. heavy Canada geese population on campus), and improper disposal of pet waste. Due to the significant number of pet owners in the community, Mason identifies students,

faculty, staff members and campus visitors as the target audience of their education and outreach messages focused on proper disposal of pet waste.

Nutrients: Nitrogen and phosphorus are two of the three pollutants listed in the MS4 General Permit requiring an action plan for the Chesapeake Bay TMDL. Over-fertilization of lawns provides a direct runoff source of nitrogen and phosphorous to streams. With approximately 134 acres of field area at Mason and over 5,000 residential students/faculty on campus, public awareness of the effects of over-fertilization is important to reducing those pollutants in stormwater.

Motor Oil/Chemical Contaminants: Oils that leaks from vehicles onto roads and parking lots are washed into storm drains and then flow directly to a pond or stream. With 4 million square feet of parking lots and over 26,000 active parking permits, Mason chooses to target students, faculty and staff members with educational messages focused on prevention of fuel spills, illicit discharges, and improper handling of motor oils, anti-freeze, and other hazardous waste.

Regional Coordination

Public education and outreach on stormwater issues is accomplished through both Mason local activities and participation in the Northern Virginia Clean Waters Partners (CWP), which is a collaborative effort representing 19 Northern Virginia local governments, school systems, independent water and sanitary sewer authorities, and local businesses. It is dedicated to help its members to achieve the MS4 permit requirements related to education, outreach, and public participation.

The CWP meets regularly to plan, implement, and review the regional stormwater education campaign, called "Only Rain Down the Drain Campaign." The campaign was initiated in 2003 to enable Northern Virginia jurisdictions to pool outreach funds to achieve common goals regarding stormwater education and outreach and promote consistent messages across the Northern Virginia region. The campaign uses the storm drain markers symbol, the blue and green shad, as its logo. In addition, the campaign uses a multi-media approach to educate the public on stormwater pollutions. Cable television ads, promotional items, websites, print materials, and internet banner ads are used to reach a large audience around the region.

CWP has produced outreach programs that appear to be effective and far-reaching educationally and has benefited from the variety of expertise and resources each partner offers.

Local Focus

In addition to participation in the CWP, Mason LD leads local activities to focus on the education and outreach effort which include:

Traditional written materials: Mason has developed a series of educational pamphlets, bookmarks, postcards, and posters to be distributed at various outreach events/activities.

Alternative materials: Mason has designed various promotional items such as keychains, mini hand sanitizers, pens, and pet waste dispensers with stormwater massages. These promotional items will be distributed at various outreach events/activities.

Stormwater BMP signage: Mason has implemented a design standard to develop permanent signage to identify surface structural stormwater BMPs. The signage is anticipated to be a highly effective platform for outreach and education of students/faculty/staff/visitors who may not otherwise be aware of such requirements and opportunities. Mason will install the signage when a new stormwater BMP is implemented.

Storm sewer inlet markings: Mason has installed markers on existing storm drain inlets. The storm sewer inlet marking reduces dumping by providing a visual way of alerting students/faculty/visitors that storm drains empty into local streams and eventually the Chesapeake Bay. In addition, Mason requires new development and redevelopment projects to mark storm sewer inlets covers. Mason will also install drain markers when new stormwater facilities are constructed.

Media Materials: Mason LD has created a series of outreach messages which have been distributed on a regular basis on the Mason website and various social media outlets.

<u>Adjusting Target Audience and Messages</u>

As necessary, Mason will adjust their target audience and messages to address any observed weaknesses or shortcoming in the public education and outreach program.

<u>Anticipated Time Periods of Message Communication</u>

Mason distributes written materials and alternative materials throughout the academic year in highly visible locations on campus to engage students, faculty, and staff. Media ad placement from partner agencies that reach the Mason population occur throughout the year. The timing and content of these media pieces are controlled by CWP. Stormwater BMPs and facilities are labeled at the time of their installation which occurs periodically as campus infrastructure is installed, rehabilitated and/or replaced.

Information on public outreach and education is available online at the Mason LD website.

2. Public Involvement and Participation

Mason provides opportunities and encourages residents and students to participate in volunteer programs hosted on campus for conservation and improvement of water resources. Projects such as the Patriot Pack Out and the Campus Stream Cleanups are conducted every year with the purpose of getting the community involved in Mason's efforts

in reducing the amount of pollutant loads in stormwater. Educational workshops and materials, offered by Mason, also provide information to the public about stormwater management practices implemented on campus and different sustainable practices that can help restore and protect surface waters.

Public involvement is greatly encouraged, as the community can provide valuable input and assistance to Mason on improving the MS4 program. In many cases public input helps identify problems promptly, and therefore, solutions can be accomplished in a shorter time. Volunteer work may also offer a broader base of expertise to supplement the limited resources of Mason LD, while shortening the time of program implementation as well, due to the greater number of participants.

MS4 Website

Mason LD has developed a website dedicated to water quality and stormwater management. The site provides information on Mason's MS4 program, serves as a forum to distribute educational materials, and includes information on where to report potential illicit discharges. It serves as a tool to provide water quality and pollution prevention information to the general public in an easily accessible format. It also provides public access to documents, such as the MS4 program plan, annual reports, and TMDL action plan. Public comments regarding MS4 Program plan, annual reports, TMDL action plan, and any stormwater concerns received via all media will be investigated and responded in a timely manner. Mason LD will retain such information for the permit cycle.

Mason Stream Clean-up Events

Mason LD hosts stream clean-up events every year. Many students/faculty/staff/visitors participate in these events to help keep the streams free of trash and debris. The events provide a hands-on opportunity to learn about ways to protect the streams and environment. Mason LD keeps records on the number of participants and the weight of trash collected (recyclable and non-recyclable) at each event.

Mason Classroom Outreach

Mason LD visits multiple classrooms throughout the academic year to promote conservation and improvement of water resources while supporting the classroom curriculum. Mason LD presents MS4 program and relevant elements/activities to the students and faculty, provides stormwater brochures, and discusses stormwater related subjects. Mason LD keeps records on the number of participants at each classroom outreach.

Educational events

Mason LD presents stormwater materials and relevant projects at various community events, such as EcoFest, Connect Fair, and Health and Wellness Expo. During these events, Mason LD engages participants in discussion on stormwater and water quality and distributes brochures and promotional items. Mason LD keeps records on the number of engagements.

Information on public involvement and participation is available online at the Mason LD website.

3. Illicit Discharge Detection and Elimination

In order to detect and eliminate both direct and indirect illicit discharges, Mason has developed an Illicit Discharge Detection and Elimination Program (IDDE), which relies on Mason's *Illicit Discharge Detection and Elimination Policy* to prohibit any non-stormwater discharges into the sewer system or any receiving waterway. The policy is enforced by both Mason LD and EHS, who rely strongly on regular inspections and public notification. Mason encourages the community's contribution in discovering and reporting possible polluted runoff and maintains appropriate staffing to address such reported concerns.

MS4 Mapping

Mason publishes interactive stormwater maps using online GIS. The maps can be found on the <u>Mason LD website</u>. The complete MS4 map with outfall information table are available upon request.

Outfall Reconnaissance Inventory

Outfall Reconnaissance Inventory (ORI) is another important component of the IDDE program at Mason. The ORI is performed annually in order to identify possible illicit connections and discharges, as well as to keep track of all existing stormwater management facilities and structures within the MS4. During the ORI, outfalls are also evaluated for structural damages or uncommon conditions that might indicate the present of pollutants. Outfalls are also inspected for possible maintenance necessary to avoid detrimental conditions on stream banks and beds. *Appendix A* provides the procedures on outfall reconnaissance.

Interconnection

Mason has interconnections with the stormwater systems operated by Fairfax County, City of Fairfax, Prince William County and the Virginia Department of Transportation (VDOT). The sample of written notification is included in <u>Appendix C</u>.

4. Construction Site Storm Water Runoff Control and Erosion and Sediment Control

Under its VSMP permit, Mason is required to develop, implement, and enforce a program to reduce the discharge of pollutants associated with construction activity into the MS4.

Mason's Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management (AS&S) is an integral component of all design, construction, maintenance, and management of the University's facilities and campuses. It is enforced during the planning, permitting and construction phases by Mason LD staff. Mason personnel receive training by DEQ on ESC and SWM, in order to enforce such programs. Certified Mason staff is responsible for reviewing plans during the permitting process and conducting regular inspections of sites during construction. Inspections and Plan review procedure are implemented in accordance with state laws and regulations and Mason's AS&S. A copy of Mason's AS&S is available at the Mason LD website and/or provided upon request.

Public concern associated with runoff from construction activity is received via email at MasonLD@gmu.edu. Instructions on how to report concerns or potential illicit discharges are available online at the Mason LD website.

After public comment is received, Mason EHS is responsible for investigating the incident and contacting the appropriate spill response coordinator in accordance to Integrated Contingency Plan.

Post-Construction Storm Water Management in New Development and Redevelopment

As a non-traditional small MS4, Mason has direct control over planning, design, construction, and post-construction of stormwater management facilities, also called best management practices or BMPs. The MS4 program at Mason consists of minimizing the impacts of runoff associated with land disturbance such as flooding, erosion, and water pollution. Due to its current developmental expansion, Mason's goal is to implement cost-effective measures that provide water quantity and quality control while complying with laws and regulations. Current practices implemented by Mason in managing and controlling stormwater focus on promoting natural hydrologic processes as well as minimizing contact of pollutants with rainwater. As land disturbing activities take place, Mason incorporates measures that protect and/or improve natural areas during and after construction. In addition to the ongoing efforts to preserve the natural landscape, Mason strives to reduce impervious areas as much as possible and create more vegetated regions.

Inspections on Mason-owned stormwater management facilities are performed in accordance with state laws and regulations and Mason's AS&S, which is available at the <u>Mason LD website</u> and/or provided upon request.

6. Pollution Prevention and Good Housekeeping for Facilities Owned or Operated by Mason within the MS4 Service Area

Under the MS4 permit, Mason is required to develop and implement an operation and maintenance program designated to reduce and prevent the discharges of pollutants into the MS4. The operation and maintenance program for Mason includes activities, schedules, and inspection procedures, as well as corrective actions to ensure proper performance of each facility. Maintenance activities are managed by Facilities Management on a schedule basis via Asset Essentials, where work orders are placed by staff member and received by Facilities Management. Facilities Management uses a programmed "work order" to perform maintenance on each stormwater management facilities in accordance with frequency parameters established in the *Stormwater Management Maintenance Guide (Appendix B)*.

Mason has identified three high priority facilities that have a high potential of discharging pollutants. They are the maintenance storage yard and the west campus yard at the Fairfax Campus, and the facilities management site at the Science and Technology campus. Mason has developed site specific stormwater pollution prevention plans (SWPPP) for each facility and will

implement them in accordance with the plans. Through contract language, standard operation procedures or other appropriate measures, Mason will ensure contractors working on behalf of Mason to implement the necessary good housekeeping and pollution prevention procedures, and stormwater pollution plans.

The operation and maintenance program also incorporates a training component focusing on groups and/or departments that are likely to have significant stormwater impacts. The EHS office is responsible for training Mason personnel involved in hazardous materials and petroleum product handling activities. Major Training elements of the Mason MS4 Program can be found in *Appendix D*.

Mason has developed nutrient management plans for turf/landscape areas and athletic fields. The plans encompass approximately 360 acres containing turfgrass on the Fairfax Campus and 40 acres of turf areas on the SciTech Campus. The current nutrient management plans were approved by DCR on Aug 20, 2024 and are valid through August 14, 2027. The plans are maintained by Mason LD office and available upon request.

VIII. DEQ BMP WAREHOUSE REPORTING

Under Part III of the MS4 permit, Mason will electronically report new best management practices (BMPs) implemented and inspected, as applicable, every year. Each new BMP will be reported, listing the BMP type, location, total acres and impervious acres, date brought online, the 6th order hydrologic unit code, whether the BMP is part of the Chesapeake Bay TMDL action plan, and date of last inspection (if applicable).

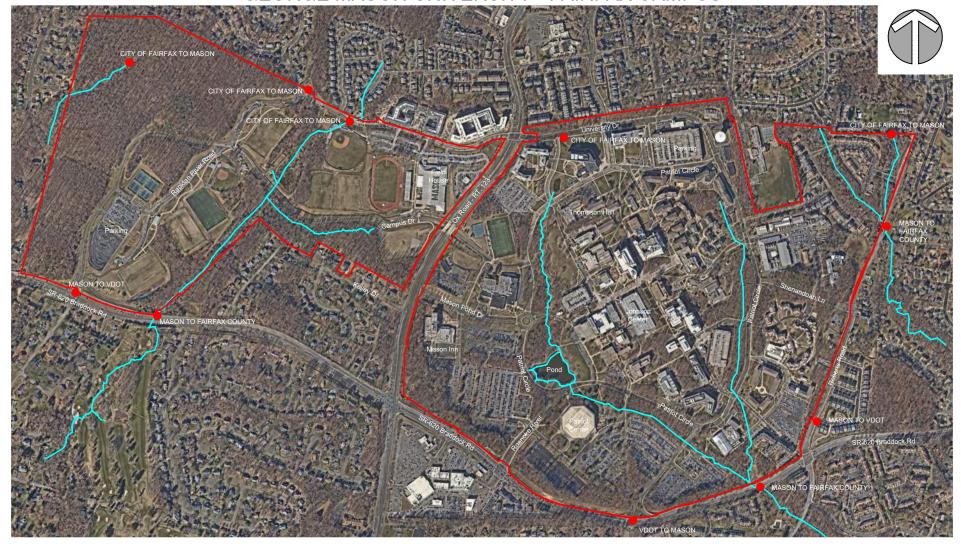
IX. ANNUAL REPORT AND PROGRAM EVALUATION

This program is to be evaluated annually by Mason LD personnel to ensure compliance with all provisions of the MS4 permit. Program plan modifications will take place as necessary or as required by DEQ.

An annual report is to be submitted for review to DEQ on MS4 Program Plan updates. The annual MS4 report is to be submitted by October $\mathbf{1}^{\text{st}}$ of each year. Copies of previously submitted Annual Reports can be reviewed on the <u>Mason website</u>.

Figures

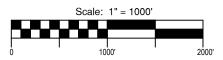
MAP OF MS4 INTERCONNECTIVITY GEORGE MASON UNIVERSITY - FAIRFAX CAMPUS





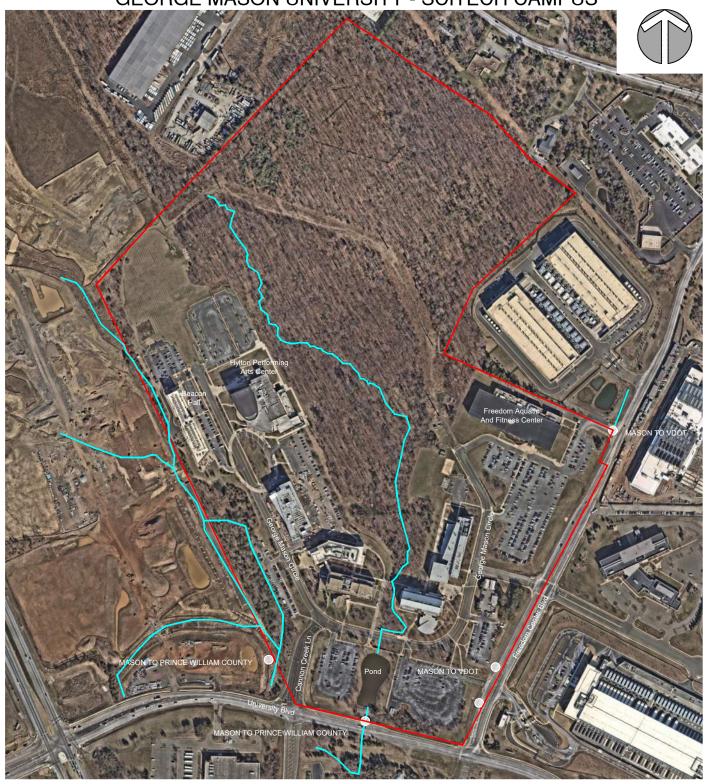
LEGEND

GEORGE MASON UNIVERSITY
VIRGINIA DEPARTMENT OF TRANSPORTATION
MASON BOUNDARY
STREAMS





MAP OF MS4 INTERCONNECTIVITY GEORGE MASON UNIVERSITY - SCITECH CAMPUS



LEGEND

MASON GEORGE MASON UNIVERSITY

PWC PRINCE WILLIAM COUNTY

VDOT VIRGINIA DEPARTMENT OF TRANSPORTATION

MASON BOUNDARY

STREAMS





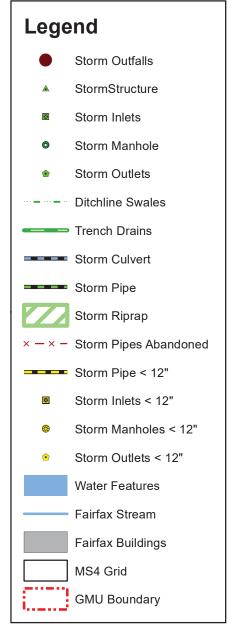
Appendix A:

Outfall Reconnaissance Procedures and Guidelines



GMU Fairfax Campus Stormwater Sewer System

Revised: 03/2019





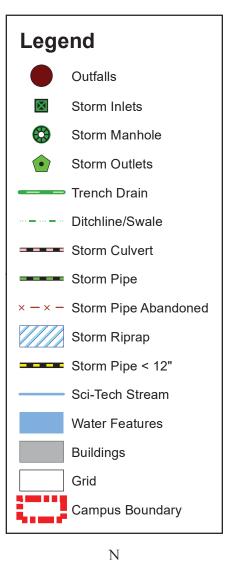
800

1,600 Feet



GMU Prince William Campus Stormwater Sewer System

Revised: 03/2019





490

980 Feet



OUTFALL RECONNAISSANCE INVENTORY

Entry Date: Form Completed	Investig	ator:						
Outfall ID: Stream:	Section 1: General Information Outfall ID: Stream: Origin of Discharge:				Yes			
	Outfall Photograph				Location	Мар		
Section 2: Outfa	-	I a						
Type Closed Pipe	RCP	Circular Eliptical Box Other:	Single Double Triple	Height (in) Width (in)			In wate	
Open Drainage	Concrete Earthen Rip-rap Other:	Trapezoid Parabolic V-shaped Other:		Top width	 (ft): dth (ft):	Heigh	nt from t to stre	(ft): am
Outfall Protection	Length =	Width = _		Size o	f Rip Rap =			
Invert Elevation: Was there dry weather flow during the last inspection?								
Was there an investigation as to the source of the flow?				Yes	O No	□ N/A		
If yes, describe th	ne investigation:							
The informaition p	The informaition provided has been field verified by the investigator to the best of his/her knowledge and judgement.							
Investigator's Sig	nature:							
Note: First Inspection:								



OUTFALL INSPECTION

Section 1: 6	General Data							
Outfall ID:_				_GPS Location: (N)_		(E)		
				Rainfall (in): Last 24 hoursLast 48 hours				
Inspector:				_Time of last Rain:	< 24 hrs	< 48 hrs	< 72 hrs > 72 hrs	
				_	_	_		
	Outfa	ıll Photograph			Lo	cation Map		
Section 2: O	utfall Descri	ption						
Pipe Flow:	None	< 1/4 Pipe	< 1/2 Pipe	☐ < 3/4 Pipe	F	ull	Trickle	
Pipe Subme		None	< 1/4 Pipe	☐ < 1/2 Pipe	_ <	3/4 Pipe	☐ Full	
Comments:								

Section 3: Physical Conditions/ Indicators

Indicator	Check if present	Decription	comments
Outfall Damage		Spalling,Cracking or Chipping Peeling Paint Corrosion	
Deposits/ Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor Pool Quality		Odors Colors Floatables Suds Oil Sheen Excessive Algae Other	
Pipe Benthic Growth		☐ Brown ☐ Orange ☐ Green ☐ Other	
Sediment		□ No □ Partially □ Full	
Rip-rap/ Energy Dissipation		☐ Good ☐ Fair ☐ Poor ☐ N/A	
Other Observations:			

Skip sections 4 and 6 if no flow is present.

Section 4: Quantitative Characterization for flowing outfalls ONLY

Section 4:	Quantitative Characterization			
	El 114 El		FLOWING OUTFALLS	
		at and Shallow Flow	Flow #2 = Flow of larger discharges	
	Parameter	Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
FIOW # I	Time to Fill		Sec	
	Discharge Rate			
	(Volume x Time)		Cubic Feet/ Sec	
	Flow Depth		Ft	Tape Measure
Flow #2	Flow Width		Ft	Tape Measure
☐ Flow #2	Cross-sectional Area			
	(Flow Depth x Flow			
	Width)		Square Ft	
	Measured Length _	l II	Ft, in	Tape Measure
	Time of Travel	I II	Sec	Stop Watch
	Flow Velocity (Length			
	x Time)		Ft/Sec	
	Discharge Rate (Cross- sectional Area x Flow			
	Velocity)		Cubic Feet/ Sec	
Temp	perature (Optional)		°F	Thermometer
	pH (Optional)		pH Units	Test strip/ Probe
Am	monia (Optional)		mg/L	Test strip

Section 5: Physical Characteristics/ Indicators for flowing outfalls ONLY

Indicator	Check if present	Decription	Relative Severity Index (1-3)
Odor		Sewage Rancid/Sour Sulfide Petroleum/ gas Other	☐ 1-Faint ☐ 2-Easily Detected ☐ 3-Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other	☐ Faint Colors in Sample Bottle ☐ Clearly Visible in Sample Bottle ☐ Clearly Visible in Outfall
Turbidity		Severity	1- Slight Cloudiness 2- Cloudy 3- Opaque
Floatables - Do not Include Trash		Sewage (Toilet Paper, etc) Suds Petroleum (Oil Sheen) Other	1- Few/ Slight 2- Some 3- Some; Origin Clear
Comment:			
Section 6: Data Collection Sample Collected: Sample for Lab: Section 7: Overall Outfa Overall Conditions:	☐ Yes ☐ 1 ☐ Yes ☐ 1	No Sample ID:	Pool
¹ Fair: Presence of two or		or: One or more indicators with a severity of 3	
Section 8: Recommenda Investigate Illicit Discharg Infrastructure Repairs Nee Debris Removal Needed	ations ge eded	Corrective Action: Corrective Action: Corrective Action:	Priority: ☐ 1 ☐ 2 ☐ 3 Priority: ☐ 1 ☐ 2 ☐ 3 Priority: ☐ 1 ☐ 2 ☐ 3
Priority 1: Inmediate action	on is required P	Priority 2: Needs attention Prio	ority 3: Regular Maintenance
Comments:			

Appendix B:

Facility:	Detention (Dry) Pond							
Feature	Potential Problem	Maintenance Needed	Desired Outcome	Notes/ Maintenance Suggested Frequency				
	Sediment	Once every 5 years or if sediment accomulation exceeds 10% of the design pond depth. If less than treshold, sediment to be removed as part of next schedule maintenance.	Sediment clear from the site	Check sediment levels inside the forebay and main pool, record the depth at the same time each year. Conduct bathymetric survey annually.				
	Trash and Debris	There should be no visual evidence of dumping.	Trash clear from the site.	Regular Inspection (once a month) is required to control presence of trash and floatables.				
	Poisonous Vegetation and Noxious Weeds.	Presence of vegetation which may constitute to a hazard to maintenance personnel or the public	No danger of poisonous vegetation where maintenance personnel and public might be present.	Compliance with State or local policies for eradication and use of herbicides required.				
General	Contaminants and Pollution.	Any evidence of oil, gasoline, contaminants or other pollutants.	No contaminants or pollutants present	All outfalls are to be examined for the presence of non-stormwater discharges every 3 months. Coordinate removal/cleanups as necessary.				
	Animal and Pest Control (Beaver and Rodents)	Presence of animal holes or evidence of water piping through dam or berm due to animal rodent holes. Any changes or funtion of the facility.	Rodents Exterminated and damages in structure repaired.	Regular inspection required				
	Tree Growth and Hazard Trees	Tree growth that does not allow maintenance access or interferes with maintenance activity. If dead, diseased or dying trees are identified.	Accessible site for maintenance and inpection.	Do not remove vegetation that does not interfere with access or maintenance.				
Side Slopes	Erosion	Any erosion observed on side slopes.	Stabilized slopes using appropiate control measures (see GMU-ESC manual)- Rock, planting of grass, etc.	Regular inspection required. Reseed as needed.				

Storage Area	Sediment	Once every 5 years or if sediment accomulation exceeds 1 foot of depth or 10% of the design pond depth. If less than treshold, sediment to be removed as part of next schedule maintenance.	Sediment clear from the site	Check sediment levels inside the forebay and main pool, record the depth at the same time each year.
Pond Berms	Settlements	Any part of the berm that has settled.	Berms are repaired and set to designed elevation.	Measure amount of settlement regularly. Settlement can be an indicator of more severe problems, source of settlement should be determined.
	Piping	Noticible water flow through the berm of the pond. Erosive conditions.	Piping eliminated. Potential erosion problem resolved.	Regular inspection required
Emergency Overflow/ spillway and berms over 4 ft in	Tree Growth	Tree growth on emergency spillways creates blockage problems and may cause failure of the berm due to uncotrolled overtopping. Tree growth on berms over 4 ft in height may lead to piping through the berm which could lead to berm failure.	Trees removed. Roots should be removed when base is greater that 4 inches.	Regular inspection required. Restore berm as necessary.
height	Piping	Noticible water flow through the berm of the pond. Erosive conditions.	Piping eliminated. Potential erosion problem resolved.	Regular inspection required
Emergency overflow/	Armoring Missing	Any exposure of soil at the top of outflow path of spillway.	Rock and pad depth are restored to design standards.	Regular inspection required
spillway	Erosion	Any erosion observed on side slopes.	Stabilized slopes using appropiate control measures (see GMU-ESC manual)- Rock, planting of grass, etc.	Regular inspection required.

Facility:	Retention (Wet) Pond							
Feature	Potential Problem	Maintenance Needed	Desired Outcome	Notes/ Maintenance Suggested Frequency				
	Sediment	Once every 5 years or if sediment accomulation exceeds 1 foot of depth or 10% of the design pond depth. If less than treshold, sediment to be removed as part of next schedule maintenance.	Sediment clear from the site	Check sediment levels inside the forebay and main pool, record the depth at the same time each year. Conduct bathymetric survey annually.				
	Floating Trash	There should be no visual evidence of dumping.	Trash clear from the site.	Regular Inspection (once a month) is required to control presence of trash and floatables.				
General	Oil Sheen on Water	Prevalent or visible oil sheen.	Oil removed from water and source of oil located	Oil removal using Oil absorbent pads or vactor truck. If chronic low levels of oil persist, plant wetland plants such as Juncus effusus (soft rush) which can uptake small concentrations of oil.				
	Poisonous Vegetation and Noxious Weeds.	Presence of vegetation which may constitute to a hazard to maintenance personnel or the public.	No danger of poisonous vegetation where maintenance personnel and public might be present.	Compliance with State or local policies for eradication and use of herbicides required.				

Facility:	Extended Dete	ention Pond		
Feature	Potential Problem	Maintenance Needed	Desired Outcome	Notes/ Maintenance Suggested Frequency
	Sediment	Once every 5 years or if sediment accomulation exceeds 1 foot of depth or 10% of the design pond depth. If less than treshold, sediment to be removed as part of next schedule maintenance.	Sediment clear from the site	Check sediment levels inside the forebay and main pool, record the depth at the same time each year. Conduct bathymetric survey annually.
General	Trash and Debris	There should be no visual evidence of dumping.	Trash clear from the site.	Regular Inspection (once a month) is required to control presence of trash and floatables.
	Poisonous Vegetation and Noxious Weeds.	Presence of vegetation which may constitute to a hazard to maintenance personnel or the public	No danger of poisonous vegetation where maintenance personnel and public might be present.	Compliance with State or local policies for eradication and use of herbicides required.
	Contaminants and Pollution.	Any evidence of oil, gasoline, contaminants or other pollutants	No contaminants or pollutants present	All outfalls are to be examined for the presence of non-stormwater discharges every 3 months. Coordinate removal/cleanups yearly.

Facility:	Biofiltration Swale							
Feature	Potential Problem	Maintenance Needed	Desired Outcome	Notes/ Maintenance Suggested Frequency				
	Sediment Accumulation on Grass	Sediment depth that exceeds 2 inches in depth. Areas of standing water when no inflow is present.	Sediment clear from grass treatment area of the bio-swale, Swale should be leveled from side to side and drain freely towards the outlet.	Check sediment regularly. Reseed as necessary.				
General	Standing Water	Areas of standing water in the swale between storms and does not drain freely and is still present 72 hours after hydrologic event.	Biofiltration swale should be clear from sediment and debris or any other blockage that does not allow water to drain freely.	Any of the following may apply: remove sediment or trash blockages, improve grade from head to foot of swale, remove clogged check dams, add underdrains orconvert to a wet biofiltration swale. Regular inspection is required.				
	Trash	There should be no visual evidence of dumping.	Trash clear from the site.	Regular Inspection (once a month) is required to control presence of trash.				
	Flow Spreader (if applicable)	Flow spreader uneven or clogged. Flow that is not uniformly distributed through entire swale width.	Clean and level spreader. Flows are spread evenly over entire swale width.	Regular inspection required.				

Stormwater Management I	Maintenance Guide
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Facility:	Rain Gardens			
Feature	Potential Problem	Maintenance Needed	Desired Outcome	Notes/ Maintenance Suggested Frequency
General	Dead Plant Material	Presence of dead plant material	Rain garden should be clear from dead plant material	Cut off dead plant material every spring. Plant new vegetation as necessary.
	Trash	There should be no visual evidence of dumping.	Trash clear from the site.	Regular Inspection (once a month) is required to control presence of trash.
	Vegetation Coverage	When grass is sparse or bare or eroded patches occur at various places. When poisonous or nuisance vegetation exists.	Continuous vegetation growth. No danger of poisonous vegetation.	Re-seed and/or mow as necessary. Regular inspecition required.
	Invasive Species	Presence of noxious weeds as defined by State and local regulations.	Eradication of noxious weeds.	Compliance with State or local eradication policies required.

Facility:	Infiltration Trenches and Trench Drains				
Feature	Potential Problem	Maintenance Needed	Desired Outcome	Notes/ Maintenance Suggested Frequency	
General	Contaminants and Pollution.	Any evidence of oil, gasoline, contaminants or other pollutants.	No contaminants or pollutants present.	Identify and remove source, Report to Mason LD's Illicit Discharge Detection and Elimination Program.	
	Slow Drainage	Decrease capacity that indicates slow drainage.	Facility's drainage rate as designed.	Verify facilities design rate. Clean perforated drain pipe.	
	Trash and Debris	There should be no visual evidence of dumping.	Trash clear from the site.	Regular Inspection (once a month) is required. Remoe trash, debris, and other large vegetation from trench perimenter and dispose properly.	
	Excessive Vegetation	Woody vegetation present.	Trench clear from woody vegetation.	Mow and trim vegetation as needed (annually) to prevent establishment of woody vegetation.	

Appendix C:

MS4 Interconnection Notifications



Facilities and Campus Operations 4400 University Drive - MSN 1E4 Fairfax, VA 22030-4444 (703) 993-2542 Fax: (703) 993-2539 e-mail: fstrike@gmu.edu

Department of Transportation Location and Design Division 1401 East Broad Street Richmond, VA 23219-2000

June 2024

Subject: MS4 Permit; Notice of Potential Interconnected Stormwater System

George Mason University (Mason) is a Phase II small MS4 and is covered under the Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (Permit Number VAR040106).

The purpose of this letter is to notify you of the potential for interconnections between the stormwater system operated by Mason and the stormwater systems that you operate. The MS4 permit requires Mason notify in writing, any downstream regulated MS4 to which Mason is physically interconnected. We have identified several points where Mason discharges stormwater into your regulated MS4 stormwater system. Please see attached Figure 1 and 2: Map of MS4 Interconnectivity. There is no action required on your part at this time, as this letter is for notification purposes only. Please keep this for your records.

If you have any questions or desire additional information related to this subject, please contact me or

Zhongyan Xu Manager, Land Development (703) 993-4051 Email: zxu8@gmu.edu

Sincerely,

Vice President, Facilities & Campus Operations

Phone: (703) 993-2542 Email: fstrike@GMU.EDU

Attachment(s):

Figure 1: Map of MS4 Interconnectivity - Fairfax Campus

Figure 2: Map of MS4 Interconnectivity – Science and Technology Campus

Copy to:

O Zhongyan Xu, Mason, Land Development



Facilities and Campus Operations 4400 University Drive - MSN 1E4 Fairfax, VA 22030-4444 (703) 993-2542 Fax: (703) 993-2539 e-mail: fstrike@gmu.edu

Fairfax County
DPWES Stormwater Planning Division
12055 Government Center Pkwy
Fairfax, VA 22035

June 2024

Subject: MS4 Permit; Notice of Potential Interconnected Stormwater System

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Sincerely,

Frank Strike

Vice President, Facilities & Campus Operations

Phone: (703) 993-2542 Email: fstrike@GMU.EDU

Attachment(s):

Figure 1: Map of MS4 Interconnectivity

Copy to:

O Zhongyan Xu, Mason, Land Development



Facilities and Campus Operations 4400 University Drive - MSN 1E4 Fairfax, VA 22030-4444 (703) 993-2542 Fax: (703) 993-2539 e-mail: fstrike@gmu.edu

Prince William County Watershed Management Branch 5 County Complex Suite 170 Prince William, VA 22192

June 2024

Subject: MS4 Permit; Notice of Potential Interconnected Stormwater System

George Mason University (Mason) is a Phase II small MS4 and is covered under the Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (Permit Number VAR040106).

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Sincerely.

Frank Strike

Vice President, Facilities & Campus Operations

Phone: (703) 993-2542 Email: fstrike@GMU.EDU

Attachment(s):

Figure 1: Map of MS4 Interconnectivity

Copy to:

O Zhongyan Xu, Mason, Land Development



Facilities and Campus Operations 4400 University Drive - MSN 1E4 Fairfax, VA 22030-4444 (703) 993-2542 Fax: (703) 993-2539 e-mail: <u>fstrike@gmu.edu</u>

City of Fairfax 10455 Armstrong Street Fairfax, VA 22030

Subject: MS4 Permit; Notice of Potential Interconnected Stormwater System

George Mason University (Mason) is a Phase II small MS4 and is covered under the Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (Permit Number VAR040106).

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Sincerely,

Frank Strike

Vice President, Facilities & Campus Operations

Phone: (703) 993-2542 Email: <u>fstrike@GMU.EDU</u>

Attachment(s):

Figure 1: Map of MS4 Interconnectivity

Copy to:

O Zhongyan Xu, Mason, Land Development

Appendix D:

Mason MS4 Training Plan

George Mason University MS4 Training Matrix						
Permit Requirement	Facilities Administration	Facilities Management	Environmental Health and Safety	Department of Police and Public Safety	Office of Athletics	Resources
Illicit Discharge Detention(IDDE) MCM6.m.1	х	х	х	х	х	Biennial EHS Training Courses: -General Safety Training -Hazard Communication Training -Hazardous & Universal Waste Handling and Storage Training -Lab Safety Training https://ehs.gmu.edu/training EPA Illicit Discharge Detection and Elimination webinars https://www.epa.gov/npdes/npdes-stormwater-webcasts
Good Housekeeping and Pollution Prevention (GHPP) MCM6.m.2-3		Х			х	Biennial EPA Pollution Prevention/Good Housekeeping webinars https://www.epa.gov/npdes/npdes-stormwater-webcasts Stormwater Pollution Prevention Training Series (DVD available in Land Development office)
Certified Pesticide Applicator (PA) MCM6.m.4		Х				VDACS Training Courses: http://www.vdacs.virginia.gov/pesticide-applicator-training.shtml
Certified Erosion and Sediment Control Inspector/Plan Reviewer (ESC) MCM6.m.5	х					DEQ Training Courses: https://www.deq.virginia.gov/ConnectWithDEQ/TrainingCertification.aspx
Certified Stormwater Management Inspector/Plan Reviewer (SWM) MCM6.m.6	х					DEQ Training Courses: https://www.deq.virginia.gov/ConnectWithDEQ/TrainingCertification.aspx
Spill Response (SR) MCM6.m.7		х	Х	х		EHS Training Courses: -40-hour Hazardous Waste Operations (HAZWOPER) -HAZWOPER First Responder -8-hour annual HAZWOPER refresher, etc. https://ehs.gmu.edu/training

Appendix E:

Minimum Control Measures

MCM #1 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
а	The permittee shall implement a public education and outreach program designed to:		
a.1		Mason shall implement a public education and outreach program designed to increase the public's knowledge of how to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns	Mason has implemented a public education and outreach program designed to increase the public's knowledge of how to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns
a.2	Increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications; and	Mason shall implement a public education and outreach program designed to increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications.	Mason has implemented a public education and outreach program designed to increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications.
a.3	Implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.	Mason shall implement a public education and outreach program designed to implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.	Mason has implemented a public education and outreach program designed to implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.
b	The permittee shall identify no less than three high-priority stormwater issues to meet the goal of educating the public in accordance with Part I E 1 a. High-priority issues may include the following examples: Chesapeake Bay nutrients, pet wastes, local receiving water impairments, TMDLs, high-quality receiving waters, and illicit discharges from commercial sites.	The permittee shall identify no less than three high-priority stormwater issues to meet the goal of educating the public in accordance with Part I E 1 a.	Mason has identified no less than three high-priority stormwater issues to meet the goal of educating the public in accordance with Part I E 1 a.
С	The high-priority public education and outreach program, as a whole, shall:		
c.1	Clearly identify the high-priority stormwater issues.	The public education and outreach program, as a whole, will clearly identify the high-priority stormwater issues in the MS4 Program Plan.	MS4 Program Plan includes the public education and outreach program, as a whole, clearly identifies the high-priority stormwater issues shall be available.
c.2	Explain the importance of the high-priority stormwater issues.	The public education and outreach program, as a whole, will explain the importance of the high-priority stormwater issues in the MS4 Program Plan.	MS4 Program Plan includes the public education and outreach program, as a whole, clearly explains the importance of the high-priority stormwater issues shall be available.
c.3	Include measures or actions the public can take to minimize the impact of the high priority stormwater issues.	The public education and outreach program, as a whole, will include measures or actions the public can take to minimize the impact of the high priority stormwater issues in the MS4 Program Plan.	MS4 Program Plan includes the public education and outreach program, as a whole, clearly includes measures or actions the public can take to minimize the impact of the high priority stormwater issues shall be available.
c.4	Provide a contact and telephone number, website, or location where the public can find out more information.	The public education and outreach program, as a whole, will provide a contact and telephone number, website, or location where the public can find out more information.	MS4 Program Plan includes the public education and outreach program, as a whole, provides the website location where the public can find out more information
d	The permittee shall use two or more of the strategies listed in Table 1 per year to communicate to the public the high-priority stormwater issues identified in accordance with Part I E 1 b including how to reduce stormwater pollution.	Mason will use two or more of the strategies listed in Table 1 per year to communicate to the public the high-priority stormwater issues identified in accordance with Part I E 1 b including how to reduce stormwater pollution.	Mason uses two or more of the strategies listed in Table 1 per year to communicate to the public the high-priority stormwater issues identified in accordance with Part I E 1 b including how to reduce stormwater pollution shall be provided.
е	The permittee may coordinate its public education and outreach efforts with other MS4 permittees; however, each permittee shall be individually responsible for meeting all of its state permit requirements.	Mason coordinates its public education and outreach efforts with CWP to meet permit requirements.	Mason coordinates its public education and outreach efforts with CWP, however Mason will provide documentation of independent strategies implemented by the school to meet all of its state permit requirements.

MCM #1 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
f	The MS4 Program shall include:		
f.1	A list of the high-priority stormwater issues the permittee will communicate to the public as part of the public education and outreach program	stormwater issues Mason will communicate to the public as part of the public education and outreach program.	of the public education and outreach program.
f.2	The rationale for selection of each high-priority stormwater issue and an explanation of how each education or outreach strategy is intended to have a positive impact on stormwater discharges.	The MS4 program plan shall include the rationale for selection of each high-priority stormwater issue and an explanation of how each education or outreach strategy is intended to have a positive impact on stormwater discharges.	The MS4 program plan documents the rationale for selection of each high-priority stormwater issue and an explanation of how each education or outreach strategy is intended to have a positive impact on stormwater discharges.
f.3	The identification of the public audience to receive each high- priority stormwater message	N/A	N/A
f.4	Nontraditional permitees may identify staff, students, members of the general public, and other users of facilities operated by the permittee as the target audience for education and outreach strategies	, ,	The MS4 program plan documents the identification of the public audience to receive each high-priority stormwater message.
f.5	Traditional permittees may identify staff and students as part of the target audience for education and outreach strategies	, , , , , , , , , , , , , , , , , , , ,	The public education and outreach program, will include all persons in attendance - whether they are staff or part of the community.
f.6	Staff training required in accordance with Part I E 6 d does not qualify as a strategy for public education and outreach	outreach	Mason will not include staff training as public education and outreach
f.7	The strategies from Table 1 of Part I E 1 d to be used to communicate each high-priority stormwater message		The MS4 program plan documents the strategies from Table 1 of Part I E 1 d to be used to communicate each high-priority stormwater message.
f.8	The anticipated time periods the messages will be communicated or made available to the public.		The MS4 program plan documents the anticipated time periods the messages will be communicated or made available to the public.
g	The annual report shall include the following information:		
g.1	A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program; and	The annual report shall include a list of the high-priority stormwater issues the permittee addressed in the public education and outreach program.	The annual report documents the high-priority stormwater issues the permittee addressed in the public education and outreach program.
g.2	A summary of the public education and outreach activities conducted for the report year, including the strategies used to communicate each high-priority stormwater issue.	The annual report shall include a list of the strategies used to communicate each high-priority stormwater issue.	The annual report documents the strategies used to communicate each high-priority stormwater issue.
g.3	A description of any changes in high-priority stormwater issues, including, strategies used to communicate high-priority stormwater issues or target audiences for the public education and outreach plan. The permittee shall provide a rationale for these changes	The public education and outreach program, as a whole, will clearly identify the high-priority stormwater issues.	MS4 Program Plan includes the public education and outreach program, as a whole, clearly identifies the high-priority stormwater issues shall be available in the MS4 Program Plan.
g.4	A description of public education and outreach activities conducted that included education regarding climate change.	The annual report shall include a list of the strategies used to communicate each high-priority stormwater issue.	The annual report documents the strategies used to communicate each high-priority stormwater issue.

MCM #2 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
а	The permittee shall develop and implement procedures for the following:		
a.1	The public to report (1) potential illicit discharges, improper disposal, or spills to the MS4, (2) complaints regarding land disturbing activities, or (3) other potential stormwater pollution concerns.		MS4 Program includes the procedures for the public to report (1) potential illicit discharges, improper disposal, or spills to the MS4, (2) complaints regarding land disturbing activities, or (3) other potential stormwater pollution concerns.
a.2	The permittee shall develop and implement procedures for the public to provide input on the permittee's MS4 program plan.	Mason shall develop and implement procedures for the public to provide input on the permittee's MS4 program plan.	MS4 program documents the procedures for the public to provide input on the Mason's MS4 program plan.
a.3	The permittee shall develop and implement procedures for responding to public input received on the MS4 program plan or complaints.	Mason shall develop and implement procedures for responding to public input received on the MS4 program plan or complaints.	MS4 Program documents procedures for responding to public input received on the MS4 program plan or complaints.
a.4	The permittee shall develop and implement procedures for maintaining documentation of public input received on the MS4 program and associated MS4 program plan and the permittee's response.	Mason shall develop and implement procedures for maintaining documentation of public input received on the MS4 program and associated MS4 program plan and the permittee's response.	MS4 program documents procedures for maintaining documentation of public input received on the MS4 program and associated MS4 program plan and the permittee's response.
b	No later than three months after this permit's effective date, the permittee shall develop and maintain a webpage dedicated to the MS4 program and stormwater pollution prevention. The following information shall be posted on this webpage:		
b.1	The effective MS4 permit and coverage letter	Mason shall develop and maintain a webpage which includes the effective MS4 permit and coverage letter.	Mason has a dedicated stormwater webpage which includes the effective MS4 permit and coverage letter.
b.2	The most current MS4 program plan or location where the MS4 program plan can be obtained	Mason shall develop and maintain a webpage where the MS4 program plan can be obtained.	Mason has a dedicated stormwater webpage where the MS4 program plan can be obtained.
b.3	The annual report for each year of the term covered by this permit no later than 30 days after submittal to the department	Mason shall develop and maintain a webpage where the annual report for each year of the term covered by this permit is available.	Mason has a dedicated stormwater webpage where the annual report for each year of the term covered by this permit is available.
b.4		Mason shall develop a Chesapeake Bay TMDL action plan and post its location.	Mason has developed a Chesapeake Bay TMDL action plan. It is located on the Mason LD website.
b.5	For permittees whose regulated MS4 is located partially or entirely in the Chesapeake Bay watershed, the Chesapeake Bay TMDL implementation annual status reports for each year of the term covered by this permit no later than 30 days after submittal to the department.		Mason has implemented the Chesapeake Bay TMDL annual status report for each year of the term covered by this permit no later than 30 days after submittal to the department. This is available on the Mason LD website.
b.6	A mechanism for the public to report (1) potential illicit discharges, improper disposal, or spills to the MS4, (2) complaints regarding land disturbing activities, or (3) other potential stormwater pollution concerns in accordance with Part I E 2 a (1)	mechanism for the public to report (1) potential illicit discharges, improper disposal, or spills to the MS4, (2) complaints regarding	Mason has a dedicated stormwater webpage which provides a mechanism for the public to report (1) potential illicit discharges, improper disposal, or spills to the MS4, (2) complaints regarding land disturbing activities, or (3) other potential stormwater pollution concerns.
b.7	Methods for how the public can provide input on the permittee's MS4 program plan in accordance with Part I E 2 a (2).	Mason shall develop and maintain a webpage which provides a methods for how the public can provide input on the permittee's MS4 program plan.	Mason has a dedicated stormwater which the public can provide input on the permittee's MS4 program plan. There is also a link to provide input on the Mason TMDL Action Plan on the main webpage for the MS4 permit.

MCM #2 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
b.8	Federal and state nontraditional permittees with security policies preventing a MS4 program and stormwater pollution prevention webpage from being publicly accessible may utilize an internal staff accessible webpage such as an intranet webpage to meet the requirements of Part 1 E 2 b		N/A
С	The permittee shall implement no less than four activities per year from two or more of the categories listed in Table 2 to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.	N/A	N/A
d	Nontraditional permittees shall implement, promote, participate in, or coordinate on no fewer than four activities per year from two or more of the categories listed in Table 2 to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.	Mason shall implement no less than four activities per year from two or more of the categories listed in Table 2 to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.	MS4 annual report documents no less than four activities per year from two or more of the categories listed in Table 2 to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.
e	The permittee may coordinate the public involvement opportunities listed in Table 2 with other MS4 permittees; however, each permittee shall be individually responsible for meeting all of the permit requirements.	Mason could coordinates its public involvement and participation efforts with other MS4 permittees.	Mason coordinate its public involvement and participation efforts with other MS4 permittees through CWP. However, Mason is responsible for meeting all permit requirements.
f	The permittee may include staff and students in public participation events; however, the activity cannot solely include or be limited to staff participants with stormwater, groundskeeping, and maintenance duties in order for an event to qualify as a public participator event.	Mason coordinates public events for the entire community.	Mason coordinates public events for the entire community.
g	Staff training require in accordance with Part I E 6 d does not qualify as a public participation event unless the training activity solicits participation from target audiences beyond staff or contractors with stormwater, groundskeeping, and maintenance duties.	Mason does not include training as public participation events.	Mason does not include training as public participation events.
h	The MS4 Program Plan shall include:		
h.1	The webpage address where mechanisms for the public to report (i) potential illicit discharges, improper disposal, or spills to the MS4, (ii) complaints regarding land disturbing activities, or (iii) other potential stormwater pollution concerns.	The MS4 program plan shall include the webpage address with mechanisms for the public to report (i) potential illicit discharges, improper disposal, or spills to the MS4, (ii) complaints regarding land disturbing activities, or (iii) other potential stormwater pollution concerns.	The MS4 program plan documents the webpage address with mechanisms for the public to report (i) potential illicit discharges, improper disposal, or spills to the MS4, (ii) complaints regarding land disturbing activities, or (iii) other potential stormwater pollution concerns.
h.2	The webpage address that contains the methods for how the public can provide input on the permittee's MS4 program.	The MS4 program plan shall include the webpage address that contains the methods for how the public can provide input on the permittee's MS4 program.	The MS4 program plan includes the webpage address that documents the methods for how the public can provide input on the permittee's MS4 program.
h.3	A description of the public involvement activities to be implemented by the permittee, the anticipated time period the activities will occur, and a metric for each activity to determine if the activity is beneficial to water quality. An example of metrics may include the weight of trash collected from a stream cleanup, the number of participants in a hazardous waste collection event, etc.	anticipated time period the activities will occur, and a metric for	The MS4 program plan documents a description of the public involvement activities to be implemented by the permittee, the anticipated time period the activities will occur, and a metric for each activity to determine if the activity is beneficial to water quality.
i	The Annual Report shall include:		

MCM #2 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
i.1	A summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded.	, , , , , , , , , , , , , , , , , , , ,	The annual report documents a summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded.
i.2	A summary of stormwater pollution complaints received under the procedures established in Part I E 1 a (1), excluding natural flooding complains, and how the permittee responded	, , , , , , , , , , , , , , , , , , , ,	The annual report documents a summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded.
i.3	A webpage address to the permittee's MS4 program and stormwater website.	The annual report includes a webpage address to the permittee's MS4 program and stormwater website.	The annual report documents a webpage address to the permittee's MS4 program and stormwater website.
i.4	Federal and state nontraditional permittees with security policies preventing a MS4 program and stormwater pollution prevention webpage from being publicly accessible utilizing an internal staff accessible website, such as intranet, shall provide evidence of the current internal MS4 program and stormwater pollution prevention website.		N/A
i.5	A description of the public involvement activities implemented by the permittee, including any efforts to reach out and engage all economic and ethnic groups	, , , , , , , , , , , , , , , , , , , ,	The annual report documents a description of the public involvement activities implemented by the permittee.
i.6	A description of public education and outreach activities conducted that also included education regarding climate change	The annual report shall include a description of the public involvement activities implemented by the permittee. Activities including education regarding climate change to be	The annual report documents a description of the public involvement activities, including educational information regarding climate change, implemented by the permittee.
i.7	A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality.	for each activity and an evaluation as to whether or not the	The annual report documents a report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality.
i.8	The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities.	Ionnortunities.	Mason does not coordinate its on-campus public involvement efforts with other MS4 permittees. Mason receives support from CWP and the Alice Ferguson Foundation who provide trash bags, gloves and dog waste bags for the stream cleanup events.

MCM #3 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
а	The permittee shall develop and maintain an accurate MS4 map and information table as follows:		
a.1	An updated map of the MS4 owned or operated by he permittee within the MS4 regulated service area no later than 24 months after the permit effective date that includes, at a minimum:		
a.1.a	MS4 outfalls discharging to surface waters, except as follows: (i) In cases where the outfall is located outside of the MS4 permittee's legal responsibility, the permittee may elect to map the known point of discharge location closest to the actual outfall; and (ii) In cases where the MS4 outfall discharges to receiving water channelized underground, the permittee may elect to map the point downstream at which the receiving water emerges above ground as an outfall discharge location. If there are multiple outfalls discharging to an underground channelized receiving water, the map shall identify that an outfall discharge location represents more than one outfall. This is an option a permittee may choose to use and recognizes the difficulties in accessing outfalls to underground channelized stream conveyances for purposes of mapping, screening, or monitoring.	Mason shall develop and maintain an accurate MS4 map illustrating the storm sewer system owned or operated by Mason within the past 24 months that includes MS4 outfalls discharging to surface waters.	Mason develops an accurate MS4 map illustrating the storm sewer system owned within the past 24 months that includes MS4 outfalls discharging to surface waters.
a.1.b	A unique identifier for each mapped item required in Part I E 3;	Mason shall develop and maintains an accurate MS4 map illustrating the storm sewer system owned or operated by Mason within the census urbanized area identified by the 2010 decennial census that includes, a unique identifier for each mapped item required in Part I E 3.	Mason develops an accurate MS4 map illustrating the storm sewer system within the census urbanized area identified by the 2010 decennial census that includes, a unique identifier for each mapped item required in Part I E 3.
a.1.c	The name and location of receiving waters to which the MS4 outfall or point of discharge discharges;	Mason shall develop and maintain an accurate MS4 map illustrating the storm sewer system owned or operated by Mason within the census urbanized area identified by the 2010 decennial census that includes the name and location of receiving waters to which the MS4 outfall or point of discharge discharges.	Mason develops an accurate MS4 map illustrating the storm sewer system within the census urbanized area identified by the 2010 decennial census that includes the name and location of receiving waters to which the MS4 outfall or point of discharge discharges.
a.1.d	MS4 regulated service area	Mason shall develop and maintain an accurate MS4 map illustrating the storm sewer system owned or operated by Mason within the census urbanized area identified by the 2010 decennial census that includes the MS4 regulated service area.	Mason develops an accurate MS4 map illustrating the storm sewer system owned by Mason within the census urbanized area identified by the 2010 decennial census that includes the MS4 regulated service area.
a.1.e	stormwater management facilities owned or operated by the permittee.	Mason shall develop and maintain an accurate MS4 map illustrating the storm sewer system owned or operated by Mason within the census urbanized area identified by the 2010 decennial census that includes the stormwater management facilities owned or operated by the permittee.	Mason develops an accurate MS4 map illustrating the storm sewer system owned by Mason within the census urbanized area identified by the 2010 decennial census that includes the stormwater management facilities owned by Mason

MCM #3 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
a.2	The permittee shall maintain an information table associated with the storm sewer system map that includes the following information for each outfall or point of discharge for those cases in which the permittee elects to map the known point of discharge in accordance with Part I E 3 a (1) (a). The outfall information table may be maintained as a shapefile attribute table. The outfall information table may be maintained as a shapefile attribute		
a.2.a	A unique identifier as specified on the storm sewer system map;	Mason shall maintain an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.
a.2.b	The latitude and longitude of the outfall or point of discharge;	Mason shall maintain an information table associated with the storm sewer system map that includes the latitude and longitude of each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes the latitude and longitude of each mapped MS4 outfall or point of discharge.
a.2.c	The estimated regulated acreage draining to the outfall or point of discharge;	Mason shall maintain an information table associated with the storm sewer system map that includes the estimated regulated acreage draining to the outfall or point of discharge for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes the estimated regulated acreage draining to the outfall or point of discharge for each mapped MS4 outfall or point of discharge.
a.2.d	The name of the receiving water;	Mason shall maintain an information table associated with the storm sewer system map that includes the name of the receiving water for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes the name of the receiving water for each mapped MS4 outfall or point of discharge.
a.2.e	The 6th Order Hydrologic Unit Code of the receiving water;	Mason shall maintain an information table associated with the storm sewer system map that includes the 6th Order Hydrologic Unit Code of the receiving water for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes the 6th Order Hydrologic Unit Code of the receiving water for each mapped MS4 outfall or point of discharge.
a.2.f	An indication as to whether the receiving water is listed as impaired in the Virginia 2022 305(b)/303(d) Water Quality Assessment Integrated Report;	Mason shall maintain an information table associated with the storm sewer system map that includes an indication as to whether the receiving water is listed as impaired in the Virginia 2022 305(b)/303(d) Water Quality Assessment Integrated Report for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes an indication as to whether the receiving water is listed as impaired in the Virginia 2022 305(b)/303(d) Water Quality Assessment Integrated Report for each mapped MS4 outfall or point of discharge.
a.2.g	The name of any EPA approved TMDLs for which the permittee is assigned a waste load allocation.	Mason shall maintain an information table associated with the storm sewer system map that includes the name of any EPA approved TMDLs for which the permittee is assigned a waste load allocation for each mapped MS4 outfall or point of	Mason maintains an information table associated with the storm sewer system map that includes the name of any EPA approved TMDLs for which the permittee is assigned a waste load allocation for each mapped MS4 outfall or point of discharge.
a.3		·	Mason provided DEQ with a GIS-compatible shapefile of the permittee's MS4 map as described in Part I E 3 a. prior to 24 months.
a.3.a	A point feature class or shapefile for outfalls with an attribute table containing outfall data elements required in accordance with Part I E 3 a (2)	Mason shall maintain an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.
a.3.b	A polygon feature class or shapefile for the MS4 service area as required in accordance with Part I E 3 a (1) (d) with an attribute table containing the following information (i) MS4 operator name (ii) MS4 permit number (iii) MS4 service area total acreage rounded to the nearest hundredth	Mason shall maintain an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.

MCM #3 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
a.4	All file geodatabase feature classes or shapefiles shall be submitted in the following data formatted standards	Mason shall maintain an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.
a.4.a	Point data in NAD83 or WGS84 decimal degrees rounded to at least the fifth decimal place for latitude and longitude to ensure point location accuracy	Mason shall maintain an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.
a.4.b	Data projected in Virginia Lambert Conformal Conic format		
a.4.c	Outfall location accuracy shall be represented in decimal degrees rounded to at least the fifth decimal place for latitude and longitude to ensure point location accuracy	Mason shall maintain an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.
a.4.d	Metadata that shall provide a description of each feature class or shapefile dataset, units or measure as applicable, coordinate system, and projection.	Mason shall maintain an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.	Mason maintains an information table associated with the storm sewer system map that includes a unique identifier for each mapped MS4 outfall or point of discharge.
a.5	No later than October 1 of each year, the permittee shall update the storm sewer system map and outfall information table to include any new outfalls constructed or TMDLs approved or both during the immediate preceding reporting period.	No later than October 1 of each year, Mason shall update the storm sewer system map and outfall information table to include any new outfalls constructed or TMDLs approved or both during the immediate preceding reporting period.	No later than October 1 of each year, Mason will update the storm sewer system map and outfall information table to include any new outfalls constructed or TMDLs approved or both during the immediate preceding reporting period.
a.6	The permittee shall provide written notification to any downstream adjacent MS4 of any known physical interconnection established or discovered after the effective date of this permit.	Mason shall provide written notification to any downstream adjacent MS4 of any known physical interconnection established or discovered after the effective date of this permit.	Mason provides written notification to any downstream adjacent MS4 of any known physical interconnection established or discovered after the effective date of this permit.
b	The permittee shall prohibit, through ordinance, policy, standard operating procedures, or other legal mechanism, to the extent allowable under federal, state, or local law, regulations, or ordinances, unauthorized nonstormwater discharges into the storm sewer system. Nonstormwater discharges or flows identified in 9VAC25-890-20 D 3 shall only be addressed if they are identified by the permittee as a significant contributor of pollutants discharging to the MS4. Flows that have been identified by the department as de minimis discharges are not significant sources of pollutants to surface water.	Mason shall prohibit, through ordinance, policy, standard operating procedures, or other legal mechanism, to the extent allowable under federal, state, or local law, regulations, or ordinances, unauthorized nonstormwater discharges into the storm sewer system. Nonstormwater discharges or flows identified in 9VAC25-890-20 D 3 shall only be addressed if they are identified by the permittee as a significant contributor of pollutants discharging to the MS4. Flows that have been identified by the department as de minimis discharges are not significant sources of pollutants to surface water.	Mason prohibits, through Mason's IDDE policy, to the extent allowable under federal, state, or local law, regulations, or ordinances, unauthorized nonstormwater discharges into the storm sewer system. Nonstormwater discharges or flows identified in 9VAC25-890-20 D 3 shall only be addressed if they are identified by Mason as a significant contributor of pollutants discharging to the MS4.
С	The permittee shall maintain, implement, and enforce illicit discharge detection and elimination (IDDE) written procedures designed to detect, identify, and address unauthorized nonstormwater discharges, including illegal dumping, to the small MS4 to effectively eliminate the unauthorized discharge. Written procedures shall include:	Mason shall maintain, implement, and enforce illicit discharge detection and elimination (IDDE) written procedures designed to detect, identify, and address unauthorized nonstormwater discharges, including illegal dumping, to the small MS4 to effectively eliminate the unauthorized discharge.	Mason maintains, implements, and enforces illicit discharge detection and elimination (IDDE) written procedures designed to detect, identify, and address unauthorized nonstormwater discharges, including illegal dumping, to the small MS4 to effectively eliminate the unauthorized discharge.

MCM #3 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
c.1	A description of the legal authorities, policies, standard operating procedures or other legal mechanisms available to the permittee to eliminate identified sources of ongoing illicit discharges including procedures for using legal enforcement authorities.	The written procedures shall include a description of the legal authorities, policies, standard operating procedures or other legal mechanisms available to the permittee to eliminate identified sources of ongoing illicit discharges including procedures for using legal enforcement authorities.	Mason's IDDE policy includes a description of the legal authorities, policies, standard operating procedures or other legal mechanisms available to Mason to eliminate identified sources of ongoing illicit discharges including procedures for using legal enforcement authorities.
c.2	Dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall include:		
c.2.a	A prioritized schedule of field screening activities and rationale for prioritization determined by the permittee based on such criteria as age of the infrastructure, land use, historical illegal discharges, dumping or cross connections;	The written procedures shall include dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall include a prioritized schedule of field screening activities and rationale for prioritization determined by the permittee based on such criteria as age of the infrastructure, land use, historical illegal discharges, dumping or cross connections.	weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall
c.2.b	If the total number of MS4 outfalls is equal to or less than 50, a schedule to screen all outfalls annually;	The written procedures shall include dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall include a schedule to screen all outfalls annually if the total number of MS4 outfalls is equal to or less than 50.	Mason's Outfall Reconnaissance Procedures documents dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall document a schedule to screen all outfalls annually if the total number of MS4 outfalls is equal to or less than 50.
c.2.c	If the total number of MS4 outfalls is greater than 50, a schedule to screen a minimum of 50 outfalls annually such that no more than 50% are screened in the previous 12-month period. The 50% criteria is not applicable if all outfalls have been screened in the previous three years; and	The written procedures shall include dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall include a schedule to screen a minimum of 50 outfalls annually such that no more than 50% are screened in the previous 12-month period.	Mason's Outfall Reconnaissance Procedures documents dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall document a schedule to screen a minimum of 50 outfalls annually such that no more than 50% are screened in the previous 12-month period.
c.2.d	The permittee may adopt a risk-based approach to dry weather screening identifying observation points based upon illicit discharge risk upstream of an outfall. Observation points may include points of interconnection, manholes, points of discharge, conveyances, or inlets suspected to have a high likelihood of receiving illicit discharges	The written procedures shall include dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall include a schedule to screen a minimum of 50 outfalls annually such that no more than 50% are screened in the previous 12-month period.	Mason's Outfall Reconnaissance Procedures documents dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall document a schedule to screen a minimum of 50 outfalls annually such that no more than 50% are screened in the previous 12-month period.
c.2.e	Each observation point screened may be counted as one outfall screening activity equivalent and counted towards the requirement of Part I E 3 c (2) (b) or (2) ©; however, at least 50% of the minimum annual screening events must include outfall screening	The written procedures shall include a mechanism to track the unique outfall identifier.	Mason's Outfall Reconnaissance Procedures documents a mechanism to track the unique outfall identifier.
c.2.f	Illicit discharges reported by the public and subsequent investigations may not be counted as screening events; however once the resolution of the investigation and the date the investigation was closed has been documented, an observation point may be established for future screening events	The written procedures shall include a mechanism to track the unique outfall identifier.	Mason's Outfall Reconnaissance Procedures documents a mechanism to track the unique outfall identifier.

MCM #3 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
c.2.g	A checklist or mechanism to track the following information for dry weather screening events: (i) The unique identifier for the outfall or observation point (ii) Time since the last precipitation event (iii) The estimated quantity of the last precipitation event (iv) Site descriptions (e.g., conveyance type and dominant watershed land uses) (v) Observed indicators of possible illicit discharge events, such as floatable, deposits, stains, and vegetative conditions (e.g., dying or dead vegetation, excessive vegetative growth) (vi) Whether or not a discharge was observed (vii) If a discharge was observed, the estimated discharge rate and visual characteristics of the discharge (e.g., odor, color, clarity) and the physical condition of the outfall; and (viii) For observation points, the location, downstream outfall unique identifier, and risk factors or rationale for establishing the observation point.	The written procedures shall include a mechanism to track the unique outfall identifier.	Mason's Outfall Reconnaissance Procedures documents a mechanism to track the unique outfall identifier.
c.3	A timeframe upon which to conduct an investigation to identify and locate the source of any observed unauthorized nonstormwater discharge. Priority of investigations shall be given to discharges of sanitary sewage and those believed to be a risk to human health and public safety. Discharges authorized under a separate VPDES or state permit require no further action under this permit.	The written procedures shall include a timeframe upon which to conduct an investigation to identify and locate the source of any observed unauthorized nonstormwater discharge. Priority of investigations shall be given to discharges of sanitary sewage and those believed to be a risk to human health and public safety. Discharges authorized under a separate VPDES or state permit require no further action under this permit.	Mason's Outfall Reconnaissance Procedures documents a timeframe upon which to conduct an investigation to identify and locate the source of any observed unauthorized nonstormwater discharge. Priority of investigations shall be given to discharges of sanitary sewage and those believed to be a risk to human health and public safety. Discharges authorized under a separate VPDES or state permit require no further action
c.4	Methodologies to determine the source of all illicit discharges. If the permittee is unable to identify the source of an illicit discharge within six months of beginning the investigation then the permittee shall document that the source remains unidentified. If the observed discharge is intermittent, the permittee shall document that attempts to observe the discharge flowing were unsuccessful.	The written procedures shall include methodologies to determine the source of all illicit discharges. If the permittee is unable to identify the source of an illicit discharge within six months of beginning the investigation then the permittee shall document that the source remains unidentified. If the observed discharge is intermittent, the permittee shall document that attempts to observe the discharge flowing were unsuccessful.	Mason's Outfall Reconnaissance Procedures document methodologies to determine the source of all illicit discharges. If the permittee is unable to identify the source of an illicit discharge within six months of beginning the investigation then the permittee shall document that the source remains unidentified. If the observed discharge is intermittent, the permittee shall document that attempts to observe the discharge flowing were unsuccessful.
c.5		The written procedures shall include methodologies for conducting a follow-up investigation for illicit discharges that are continuous or that permittees expect to occur more frequently than a one-time discharge to verify that the discharge has been eliminated except as provided for in Part I E 3 c (4);	Mason's Outfall Reconnaissance Procedures documents methodologies for conducting a follow-up investigation for illicit discharges that are continuous or that permittees expect to occur more frequently than a one-time discharge to verify that the discharge has been eliminated except as provided for in Part I E 3 c (4);
c.6	A mechanism to track all illicit discharge investigations to document the following:		
c.6.a	The dates that the illicit discharge was initially observed, reported, or both;	The written procedures shall include a mechanism to track all illicit discharge investigations to document the dates that the illicit discharge was initially observed, reported, or both.	Mason's IDDE policy includes a mechanism to track all illicit discharge investigations to document the dates that the illicit discharge was initially observed, reported, or both.

MCM #3 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
c.6.b	The results of the investigation, including the source, if identified;	The written procedures shall include a mechanism to track all illicit discharge investigations to document the results of the investigation, including the source, if identified.	Mason's IDDE policy includes a mechanism to track all illicit discharge investigations to document the results of the investigation, including the source, if identified.
c.6.c	Any follow-up to the investigation;	The written procedures shall include a mechanism to track all illicit discharge investigations to document the any follow-up to the investigation.	Mason's IDDE policy includes a mechanism to track all illicit discharge investigations to document the any follow-up to the investigation.
c.6.d	Resolution of the investigation; and	The written procedures shall include a mechanism to track all illicit discharge investigations to document the resolution of the investigation.	Mason's IDDE policy includes a mechanism to track all illicit discharge investigations to document the resolution of the investigation.
c.6.e	The date that the investigation was closed.	The written procedures shall include a mechanism to track all illicit discharge investigations to document the date that the investigation was closed.	Mason's IDDE policy includes a mechanism to track all illicit discharge investigations to document the date that the investigation was closed.
d	The MS4 program plan shall include:		
d.1	The MS4 map and information table required by Part I E 3 a. The map and information table may be incorporated into the MS4 program plan by reference. The map shall be made available to the department within 14 days upon request;	The MS4 program plan shall include the MS4 map and information table required by Part I E 3 a. The map and information table may be incorporated into the MS4 program plan by reference. The map shall be made available to the department within 14 days upon request.	The MS4 program plan includes the map and information table by reference. The map will be made available to the department within 14 days upon request.
d.2	Copies of written notifications of new physical interconnections given by the permittee to other MS4s; and	The MS4 program plan shall include copies of written notifications of new physical interconnections given by the permittee to other MS4s.	The MS4 program includes copies of written notifications of new physical interconnections given by the permittee to other MS4s.
d.3	The IDDE procedures described in Part I E 3 c.	The MS4 program plan shall include the IDDE procedures described in Part I E 3 c.	The MS4 program plan includes the IDDE procedures described in Part I E 3 c.
е	The annual report shall include:		

MCM #3 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
e.1	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.	The annual report shall include 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 yea.	The annual report will include a 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 yea.
e.2	Ineriod as part of the dry weather screening program.	The annual report shall include the total number of outfalls screened during the reporting period as part of the dry weather screening program.	The annual report will provide the total number of outfalls screened during the reporting period as part of the dry weather screening program.
e.3	A list of illicit discharges to the MS4 including spills reaching the MS4 with information as follows:		
e.3.a		The annual report shall include a list of illicit discharges to the MS4 including spills reaching the MS4 with the source of illicit discharge.	The annual report will provide a list of illicit discharges to the MS4 including spills reaching the MS4 with the source of illicit discharge.
e.3.b	1	The annual report shall include a list of illicit discharges to the MS4 including spills reaching the MS4 with the dates that the discharge was observed, reported, or both.	The annual report will provide a list of illicit discharges to the MS4 including spills reaching the MS4 with the dates that the discharge was observed, reported, or both.
e.3.c	Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe);	The annual report shall include a list of illicit discharges to the MS4 including spills reaching the MS4 with whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe).	The annual report will provide a list of illicit discharges to the MS4 including spills reaching the MS4 with whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe).
e.3.d	1	The annual report shall include a list of illicit discharges to the MS4 including spills reaching the MS4 with how the investigation was resolved.	The annual report will provide a list of illicit discharges to the MS4 including spills reaching the MS4 with how the investigation was resolved.
e.3.e		The annual report shall include a list of illicit discharges to the MS4 including spills reaching the MS4 with a description of any follow-up activities.	The annual report will provide a list of illicit discharges to the MS4 including spills reaching the MS4 with a description of any follow-up activities.
e.3.f	1	The annual report shall include a list of illicit discharges to the MS4 including spills reaching the MS4 with the date the investigation was closed.	The annual report will provide list of illicit discharges to the MS4 including spills reaching the MS4 with the date the investigation was closed.

MCM #4 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
а	The permittee shall utilize its legal authority, such as ordinances, permits, orders, specific contract language, and interjurisdictional agreements, to address discharges entering the MS4 from regulated construction site stormwater runoff. The permittee shall control construction site stormwater runoff as follows:		
a.1	If the permittee is a city, county, or town that has adopted a Virginia Erosion and Sediment Control Program (VESCP), the permittee shall implement the VESCP consistent with the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq.of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840);	N/A	N/A
a.2	If the permittee is a town that has not adopted a VESCP, implementation of a VESCP consistent with the Virginia Erosion and Sediment Control Law (§ 62.1-44:15:51 et seq. of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840) by the surrounding county shall constitute compliance with Part I E 4 a; such town shall notify the surrounding county of erosion, sedimentation or other construction stormwater runoff problems;	N/A	N/A
a.3	If the permittee is a state agency; public institution of higher education including community colleges, colleges, and universities; or federal entity and has developed standards and specifications in accordance with the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq. of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840), the permittee shall implement the most recent department approved standards and specifications.	N/A	N/A
a.4	If the permittee is a state agency; public institution of higher education including community colleges, colleges, and universities; or federal entity and has not developed standards and specifications in accordance with the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq. of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840), the permittee shall inspect all land disturbing activities as defined in § 62.1-44.15:51 of the Code of Virginia that result in the disturbance activities of 10,000 square feet or greater, or 2,500 square feet or greater in accordance with areas designated under the Chesapeake Bay Preservation Act, as follows:	Mason shall implement the most recent department approved standards and specifications.	Mason has implemented Annual Standards and specifications for Stormwater and Erosion and Sediment Control approved by DEQ
a.4.a	During or immediately following initial installation of erosion and sediment controls;	N/A	N/A
a.4.b	At least once per every two-week period;	N/A	N/A

MCM #4 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
a.4.c	Within 48 hours following any runoff producing storm event; and	N/A	N/A
a.4.d	At the completion of the project prior to the release of any performance bond.	N/A	N/A
a.5	If the permittee is a subdivision of a local government such as a school board or other local government body, the permittee shall inspect those projects resulting in a land disturbance as defined in § 62.1-44.15.51 of the Code of Virginia occurring on lands owned or operated by the permittee that result in the disturbance of 10,000 square feet or greater, 2,500 square feet or greater in accordance with areas designated under the Chesapeake Bay Preservation Act, or in accordance with more stringent thresholds established by the local government, as follows:	N/A	N/A
a.5.a	During or immediately following initial installation of erosion and sediment controls;	N/A	N/A
a.5.b	At least once per every two-week period;	N/A	N/A
a.5.c	Within 48 hours following any runoff producing storm event; and	N/A	N/A
a.5.d	At the completion of the project prior to the release of any performance bond.	N/A	N/A
b	The permittee shall require implementation of appropriate controls to prevent nonstormwater discharges to the MS4, such as wastewater, concrete washout, fuels and oils, and other illicit discharges identified during land disturbing activity inspections of the MS4. The discharge of nonstormwater discharges other than those identified in 9VAC25-890-20 D through the MS4 is not authorized by this state permit.	Mason shall require implementation of appropriate controls to prevent nonstormwater discharges to the MS4, such as wastewater, concrete washout, fuels and oils, and other illicit discharges identified during land disturbing activity inspections of the MS4. The discharge of nonstormwater discharges other than those identified in 9VAC25-890-20 D through the MS4 is not authorized by this state permit.	Mason has required implementation of appropriate controls to prevent nonstormwater discharges to the MS4, such as wastewater, concrete washout, fuels and oils, and other illicit discharges identified during land disturbing activity inspections of the MS4.
с	Employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators shall obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations	Mason shall ensure all employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators have obtained the appropriate certifications as required under the Virginia Erosion and Sediment Control Law.	Mason shall ensure all employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators have obtained the appropriate certifications as required under the Virginia Erosion and Sediment Control Law.
d	The permittee's MS4 program plan shall include:		
d.1	If the permittee implements a construction site stormwater runoff control program in accordance with Part I E 4 a (1), the local ordinance citations for the VESCP program;	N/A	N/A
d.2	If the permit is a town that does not implement an erosion and sediment control program for construction site stormwater runoff in accordance with Part I E 4 a (2), the county ordinance citations for the VESCP program the town is subject to;	N/A	N/A
d.3	If the permittee implements a construction site stormwater runoff control program in accordance with Part I E 4 a (3):		

MCM #4 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
d.3.a	The most recently approved standards and specifications or if incorporated by reference, the location where the standards and specifications can be viewed	Mason's MS4 program plan shall include the most recently approved standards and specifications or if incorporated by reference, the location where the standards and specifications can be viewed.	Mason's MS4 program plan has incorporated by reference the location where the standards and specifications can be viewed.
d.3.b	A copy of the most recent standards and specifications approval letter from the department	Mason's MS4 program plan shall include a copy of the most recent standards and specifications approval letter from the department.	Mason's MS4 program plan has incorporated by reference the location of a copy of the most recent standards and specifications approval letter from the department.
d.4	A description of the legal authorities utilized to ensure compliance with Part I E 4 a to control construction site stormwater runoff control such as ordinances, permits, orders, specific contract language, policies, and interjurisdictional agreements	Mason's MS4 program plan shall include a description of the legal authorities utilized to ensure compliance with Part I E 4 a to control construction site stormwater runoff control such as ordinances, permits, orders, specific contract language, policies, and interjurisdictional agreements.	Mason's MS4 program plan has incorporated by reference the location of the standards and specifications which describes the legal authorities utilized to ensure compliance with Part I E 4 a to control construction site stormwater runoff control such as ordinances, permits, orders, specific contract language, policies, and interjurisdictional agreements.
d.5	For traditional permittees, written inspection procedures to ensure VESCP requirements are maintained in accordance with 9VAC25-840-90 A and onsite erosion and sediment controls are properly implemented in accordance with 9VAC25-840-60 B;	N/A	N/A
d.6	For nontraditional permittees, erosion and sediment control plans or annual standards and specifications shall be approved by the department in accordance with 62.1-44.15:55 of the Code of Virginia. Compliance with approved erosion and sediment control plans or annual standards and specifications shall be ensured by the permittee with written inspection procedures that at minimum include the following:	Mason's MS4 program plan shall include written procedures for requiring compliance through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms.	Mason's MS4 program plan has incorporated by reference the location of the standards and specifications procedures which includes written procedures for compliance through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms.
d.6.a	An inspection checklist for documenting onsite erosion and sediment control structures and systems are properly maintained and repaired as needed to ensure continued performance of their intended function; and	Mason's MS4 program plan shall include written procedures for requiring compliance through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms.	Mason's MS4 program plan has incorporated by reference the location of the standards and specifications procedures which includes written procedures for compliance through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms.
d.6.b	A list of all associated documents utilized for inspections, including checklists, department approved erosion and sediment control plans, or the most recently department approved annual standards and specification, and any other documents utilized;	Mason's MS4 program plan shall include written procedures for requiring compliance through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms.	Mason's MS4 program plan has incorporated by reference the location of the standards and specifications procedures which includes written procedures for compliance through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms.
d.7	Traditional permittees shall maintain written procedures for requiring VESCP compliance through corrective action or enforcement action in accordance with 62.1-44.15:58 of the Code of Virginia;	N/A	N/A
d.8	Nontraditional permittees shall maintain written procedures for requiring compliance with department approved erosion and sediment control plans and annual standards and specifications through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms; and	Mason's MS4 program plan shall include written procedures for requiring compliance through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms.	Mason's MS4 program plan has incorporated by reference the location of the standards and specifications procedures which includes written procedures for compliance through corrective action or enforcement action to the extent allowable under federal, state, or local law, regulation, ordinance, or other legal mechanisms.

MCM #4 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
d.9	departments, divisions, or subdivisions in implementing the	Mason's MS4 program plan shall include written documentation on the roles and responsibilities of each of the permittee's departments, divisions, or subdivisions in implementing the construction site stormwater runoff control requirements in Part I E 4.	Mason's MS4 program plan has incorporated by reference the location of the standards and specifications which includes written documentation on the roles and responsibilities of each of the permittee's departments, divisions, or subdivisions in implementing the construction site stormwater runoff control requirements in Part I E 4.
е	The annual report shall include the following:		
e.1	Total number erosion and sediment control inspections conducte	The annual report shall include the total number of inspections conducted.	The annual report will include the total number of inspections conducted.
e.2	Total number of each type of compliance action and enforcement actions implemented; and	The annual report shall include the total number and type of enforcement actions implemented and the type of enforcement actions.	The annual report will include the total number and type of enforcement actions implemented and the type of enforcement actions.
e.3	For nontraditional permittees:		
e.3.a	A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control; and	The annual report shall include a confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control.	The annual report will include a confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control.
e.3.b	specifications, an explanation as to why the projects did not	The annual report shall include an explanation as to why the projects did not conform to the approved standards and specifications if one or more of the land disturbing projects were not conducted with the department approved standards and specifications.	The annual report will include, if any, an explanation as to why the projects did not conform to the approved standards and specifications if one or more of the land disturbing projects were not conducted with the department approved standards and specifications.

MCM #5 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
	The permittee shall address post-construction stormwater runoff		
а	that enters the MS4 from the following land disturbing activities by implementing a post-construction stormwater runoff		
	management program as follows:		
	If the traditional permittee is a city, county, or town, with an		
	approved Virginia Stormwater Management Program (VSMP),		
	the permittee shall implement the VSMP consistent with the		
a.1	Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq. of	N/A	N/A
	the Code of Virginia) and VSMP Regulations (9VAC25-870) as	,	'
	well as develop an inspection and maintenance program in		
	accordance with Parts I E 5 b and c;		
	If the traditional permittee is a town that has not adopted a		
	VSMP, implementation of a VSMP consistent with the Virginia		
	Stormwater Management Act (§ 62.1-44.15:24 et seq. of the		The permittee has implemented the most recent department
	Code of Virginia) and VSMP Regulations (9VAC25-870) by the	Mason should implement Annual Standards and specifications	approved standards and specifications and developed an
a.2	,	for Stormwater and Erosion and Sediment Control approved by	inspection and maintenance program in accordance with Part I E
	such town shall notify the surrounding county of erosion,	DEQ	5 b.
	sedimentation, or other post-construction stormwater runoff		
	problems and develop an inspection and maintenance program		
	in accordance with Part I E 5 b and c.		
	If the traditional permittee is a city, county, or town receiving		
	initial permit coverage during the permit term and must obtain VSMP approval from the department, the permitee shall		
	implement the VSMP consistent with the Virginia Stormwater		
a.3	Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia)	N/A	N/A
a.s	and VSMP Regulations (9VAC25- 870), as well as develop an	IV/A	IN/A
	inspection and maintenance program in accordance with Part I E		
	5 b and c no later than 60 months after receiving permit		
	coverage.		
	If the nontraditional permittee is a state agency; public		
	institution of higher education including community colleges,		
a.4	colleges, and universities; or federal entity and has not		
	developed standards and specifications in accordance with the	Mason should implement Annual Standards and specifications	The permittee has implemented the most recent department
	Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq. of	for Stormwater and Erosion and Sediment Control approved by	approved standards and specifications and developed an inspection and maintenance program in accordance with Part I E
	the Code of Virginia) and Virginia Stormwater Management	DEQ	Inspection and maintenance program in accordance with Part I E
	Regulations (9VAC25-870) the permittee shall implement the		J D.
	most recent department approved standards and specifications		
	and maintain an inspection program consistent with Part I E 5 b.		

MCM #5 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
a.5	If the nontraditional permittee is a state agency; public institution of higher education, including community colleges, colleges, and universities; or federal entity, and has not developed standards and specifications in accordance with the Virginia Stormwater management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and Virginia Stormwater Management Regulations (9VAC25-870), the permittee shall implement a post-construction stormwater runoff control program through compliance with 9VAC14-870 and with the implementation of a maintenance and inspection program consistent with Part I E 5 b no later than 60 months after receiving permit coverage.	N/A	N/A
a.6	If the nontraditional permittee is a subdivision of a local government such as a school board or other local government body, the permittee shall implement a post-construction stormwater runoff control program through compliance with 9VAC25-870 or in accordance with more stringent local requirements, if applicable, and with the implementation of a maintenance and inspection program consistent with Part I E 5 b. The permittee shall implement an inspection and maintenance	N/A	N/A
b	program for those stormwater management facilities owned or operated by the permittee that discharges to the MS4 as follows:		
b.1	Within six months of the permit effective date, the permittee shall develop and maintain written inspection and maintenance procedures in order to ensure adequate long-term operation and maintenance of its stormwater management facilities. The permittee may use inspection and maintenance specifications available from the Virginia Stormwater BMP Clearinghouse or inspection and maintenance plans developed in accordance with the department's Stormwater Local Assistance Fund (SLAF) guidelines;	Mason shall develop and maintain written inspection and maintenance procedures in order to ensure adequate long-term operation and maintenance of its stormwater management facilities.	Mason has developed and maintained written inspection and maintenance procedures in order to ensure adequate long-term operation and maintenance of its stormwater management facilities.
b.2	Employees and contractors implementing the stormwater program shall obtain the appropriate certifications as required under the Virginia Stormwater Management Act and its attendant regulations	Mason shall develop and maintain written inspection and maintenance procedures in order to ensure adequate long-term operation and maintenance of its stormwater management facilities.	Mason has developed and maintained written inspection and maintenance procedures in order to ensure adequate long-term operation and maintenance of its stormwater management facilities.
b.3	The permittee shall inspect stormwater management facilities owned or operated by the permittee no less than once per year.	Mason shall inspect stormwater management facilities owned or operated by the permittee no less than once per year. The permittee may choose to implement an alternative schedule to inspect these stormwater management facilities based on facility type and expected maintenance needs provided that the alternative schedule and rationale is included in the MS4 program plan. The alternative inspection frequency shall be no less than once per five years.	
b.4	If during the inspection of the stormwater management facility conducted in accordance with Part I E 5 b (2), it is determined that maintenance is required, the permittee shall conduct the maintenance in accordance with the written procedures developed under Part I E 5 b (1).	If during the inspection of the stormwater management facility conducted in accordance with Part I E 5 b (2), it is determined that maintenance is required, the permittee shall conduct the maintenance in accordance with the written procedures developed under Part I E 5 b (1).	Mason conducts the maintenance if maintenance is required,
С	For those permittees described in Part I E 5 a (1) or (2), the permit		

MCM #5 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
c.1	Implement an inspection and enforcement program for stormwater management facilities not owned by the permittee (i.e., privately owned) that includes:		
c.1.a	An inspection frequency of no less than once per five years for all privately owned stormwater management facilities that discharge into the MS4; and	N/A	N/A
c.1.b	Adequate long-term operation and maintenance by the owner of the stormwater management facility by requiring the owner to develop and record a maintenance agreement, including an inspection schedule to the extent allowable under state or local law or other legal mechanism;	N/A	N/A
c.2	Utilize its legal authority for enforcement of the maintenance responsibilities if maintenance is neglected by the owner; and	N/A	N/A
c.3	The permittee may develop and implement a progressive compliance and enforcement strategy provided that the strategy is included in the MS4 program plan.	N/A	N/A
c.4	The permittee may utilities the inspection reports provided by the owner of a stormwater management facility as part of an inspection and enforcement program in accordance with	N/A	N/A
d	The MS4 program plan shall include:		
d.1	If the permittee implements a VSMP in accordance with Part I E 5 a (1), (2), or (3):		
d.1.a	A copy of the VSMP approval letter issued by the department;	N/A	N/A
d.1.b	Written inspection procedures and all associated documents utilized in the inspection of privately owned stormwater management facilities; and	N/A	N/A
d.1.c	Written procedures for compliance and enforcement of inspection and maintenance requirements for privately owned BMPs.	N/A	N/A
d.2	If the permittee implements a post-development stormwater runoff control program in accordance with Part I E 5 a (3):		
d.2.a	The most recently approved standards and specifications or if incorporated by reference, the location where the standards and specifications can be viewed.	The MS4 program plan shall include the most recently approved standards and specifications or if incorporated by reference, the location where the standards and specifications can be viewed.	The MS4 program plan has incorporated by reference the location of the standards and specifications.
d.2.b	A copy of the most recent standards and specifications approval letter from the department.	The MS4 program plan shall include a copy of the most recent standards and specifications approval letter from the department	The MS4 program plan has incorporated the location of the standards and specifications, which includes a copy of most recent approval letter from DEQ

MCM #5 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
d.3	A description of the legal authorities utilized to ensure compliance with Part I E 5 a for post-construction stormwater runoff control such as ordinances (provide citation as appropriate), permits, orders, specific contract language, and interjurisdictional agreements.	The MS4 program plan shall include a description of the legal authorities utilized to ensure compliance with Part I E 5 a for post-construction stormwater runoff control such as ordinances (provide citation as appropriate), permits, orders, specific contract language, and interjurisdictional agreements.	The MS4 program plan has incorporated the location of the standards and specifications, which includes a description of the legal authorities utilized to ensure compliance with Part I E 5 a for post-construction stormwater runoff control.
d.4	Written inspection procedures and all associated documents utilized during inspection of stormwater management facilities owned or operated by the permittee.	The MS4 program plan shall include written inspection procedures and all associated documents utilized during inspection of stormwater management facilities owned or operated by the permittee.	The MS4 program plan has incorporated the location of the standards and specifications, which includes written inspection procedures and all associated documents utilized during inspection of stormwater management facilities owned by Mason
d.5	The roles and responsibilities of each of the permittee's departments, divisions, or subdivisions in implementing the post-construction stormwater runoff control program.	The MS4 program plan shall include the roles and responsibilities of each of the permittee's departments, divisions, or subdivisions in implementing the post-construction stormwater runoff control program.	The MS4 program plan has incorporated the location of the standards and specifications, which describes responsibilities of each of Mason's departments, divisions, or subdivisions in implementing the post-construction stormwater runoff control program.
e	The annual report shall include the following information:		
e.1	If the permittee implements a Virginia Stormwater Management Program in accordance with Part I E 5 a (1), (2) or (3):		
e.1.a	The number of privately owned stormwater management facility inspections conducted; and	N/A	N/A
e.1.b	The number of enforcement actions initiated by the permittee to ensure long-term maintenance of privately owned stormwater management facilities including the type of enforcement action;	N/A	N/A
e.2	Total number of inspections conducted on stormwater management facilities owned or operated by the permittee;	The annual report shall include the total number of inspections conducted on stormwater management facilities owned or operated by the permittee.	The annual report will include the total number of inspections conducted on stormwater management facilities owned by Mason
e.3	A description of the significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection;	The annual report shall include a description of the significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection.	The annual report will include a description of the significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned by Mason to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection.
e.4	For traditional permittees as specified in Part I E 5 a (1), a confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part III B 1 or a statement that the permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities (9VAC25-880)	N/A	N/A
e.5	A confirmation statement that the permittee electronically reported stormwater management facilities using the DEQ BMP Warehouse in accordance with Part III B 1 and 2; and	The annual report includes a confirmation statement that the permittee electronically reported stormwater management facilities using the DEQ BMP Warehouse in accordance with Part III B 1 and 2.	The annual report includes a confirmation statement that the permittee electronically reported stormwater management facilities using the DEQ BMP Warehouse in accordance with Part III B 1 and 2.

MCM #5 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
	A confirmation statement that the permittee electronically	The annual report includes a confirmation statement that the	The annual report includes a confirmation statement that the
e.6	reported stormwater management facilities inspected the DEQ	permittee electronically reported BMPs using the DEQ BMP	permittee electronically reported BMPs using the DEQ BMP
	BMP Warehouse in accordance with Part III B 5.	Warehouse in accordance with Part III B 5.	Warehouse in accordance with Part III B 5.

MCM #6 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
a	The permittee shall maintain and implement written procedures for those activities at facilities owned or operated by the permittee, such as road, street, and parking lot maintenance; equipment maintenance; and the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers designed to:		
a.1	Prevent illicit discharges;	Mason shall maintain and implement written procedures at these facilities owned or operated by the permittee to prevent illicit discharges.	Mason has maintained and implemented written procedures at these facilities owned by Mason to prevent illicit discharges.
a.2	Ensure the proper disposal of waste materials, including landscape wastes;	Mason shall maintain and implement written procedures at these facilities owned or operated by the permittee to ensure the proper disposal of waste materials, including landscape	Mason has maintained and implemented written procedures at these facilities owned by Mason to ensure the proper disposal of waste materials, including landscape wastes.
a.3	Prevent the discharge of wastewater or permittee vehicle wash water or both into the MS4 without authorization under a separate VPDES permit;	Mason shall maintain and implement written procedures at these facilities owned or operated by the permittee to prevent the discharge of wastewater or permittee vehicle wash water or both into the MS4 without authorization under a separate VPDES permit.	Mason has maintained and implemented written procedures at these facilities owned by Mason to prevent the discharge of wastewater or vehicle wash water or both into the MS4 without authorization under a separate VPDES permit.
b	The permittee shall develop and implement written good housekeeping procedures that meet the objectives established in Part I E 6 a for the following activities:		
b.1	Road, street, sidewalk, and parking lot maintenance and cleaning	that ensures employees performing road, street, and parking lot	Mason has developed a training plan in writing for applicable staff that ensures employees performing road, street, and parking lot maintenance receive training in pollution prevention and good housekeeping associated with those activities no less than once per 24 months.
b.1.a	Within 24 months of permit issuance, permittees that apply anti- icing and deicing agents shall update and implement procedures in accordance with Part I E to include implementation of best management practices for anti-icing and deicing agent application, transport, and storage;	Mason shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks, or other paved surfaces.	Mason has not applied any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks, or other paved surfaces.
b.1.b	Procedures developed in accordance with Part I E shall prohibit the application of any anti-icing or deicing agent containing urea of other forms of nitrogen or phosphorus;	Mason shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks, or other paved surfaces.	Mason has not applied any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks, or other paved surfaces.
b.2	Renovation and significant exterior maintenance activities (e.g., painting, roof resealing, and HVAC coil cleaning) not covered under a separate VSMP construction general permit. The permittee shall develop and implement procedures no later than 36 months after permit issuance;	Mason shall maintain and implement written procedures at these facilities owned or operated by the permittee to prevent the discharge of wastewater or permittee vehicle wash water or both into the MS4 without authorization under a separate VPDES permit.	Mason has maintained and implemented written procedures at these facilities owned by Mason to prevent the discharge of wastewater or vehicle wash water or both into the MS4 without authorization under a separate VPDES permit.
b.3	Discharging water pumped from construction and maintenance activities not covered by another permit covering such activities;	Mason shall maintain and implement written procedures at these facilities owned or operated by the permittee to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.	Mason has maintained and implemented written procedures at these facilities owned by Mason to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.
b.4	Temporary storage of landscaping materials;	Mason shall maintain and implement written procedures at these facilities owned or operated by the permittee to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.	Mason has maintained and implemented written procedures at these facilities owned by Mason to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.

MCM #6 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
b.5	maintenance of permittee owned or operated vehicles and equipment (i.e., prevent pollutant discharges from leaking permittee vehicles and equipment);	Mason shall maintain and implement written procedures at these facilities owned or operated by the permittee to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.	Mason has maintained and implemented written procedures at these facilities owned by Mason to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.
b.6	Application of materials, including pesticides and herbicides shall not exceed manufacturer's recommendations; and	Mason shall maintain and implement written procedures at these facilities owned or operated by the permittee to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.	Mason has maintained and implemented written procedures at these facilities owned by Mason to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.
b.7	Application of fertilizer shall not exceed maximum application rates established by applicable nutrient management plans. For areas not covered under nutrient management plans where fertilizer is applied, application rates not exceed manufacturer's recommendations	Mason shall maintain and implement written procedures at these facilities owned or operated by the permittee to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.	Mason has maintained and implemented written procedures at these facilities owned by Mason to require implementation of best management practices when discharging water pumped from utility construction and maintenance activities.
с	The permittee shall require through the use of contract language, training, written procedures, or other measures within the permittee's legal authority that contractors employed by the permittee and engaging in activities described in Part I E 6 b follow established good housekeeping procedures and use appropriate control measures to minimize the discharge of pollutants to the MS4.	Mason shall be trained in accordance with Part I E 6 a and b good housekeeping procedures.	Mason shall be trained in accordance with Part I E 6 a and b good housekeeping procedures.
d	The written procedures established in accordance with Part I E 6 a and b shall be utilized as part of the employee training program, and the permittee shall develop a written training plan for applicable field personnel that ensures the following:		
d.1	Applicable field personnel shall receive training in the prevention, recognition, and elimination of illicit discharges no less often than once per 24 months;	· ·	Mason shall be trained in accordance with Part I E 6 a and b good housekeeping procedures and as part of staff training required in Part I E 6 m.
d.2	Employees performing road, street, and parking lot maintenance receive training in good housekeeping procedures required under Part I E 6 b (1) no less than once per 24 months;	Mason shall be trained in accordance with Part I E 6 a and b good housekeeping procedures.	Mason shall be trained in accordance with Part I E 6 a and b good housekeeping procedures.
d.3	Employees working in and around facilities maintenance, public works, or recreational facilities shall receive training in applicable Part I E 6 a and b good housekeeping procedures required no less often than once per 24 months;	Mason shall be trained in accordance with Part I E 6 a and b good housekeeping procedures.	Mason shall be trained in accordance with Part I E 6 a and b good housekeeping procedures.
d.4	Employees working in and around high-priority facilities with a stormwater pollution prevention plan (SWPPP) shall receive training in applicable site specific SWPPP procedures no less than once per 24 months;	Mason shall annually review any high-priority facility owned or operated by the permittee for which a SWPPP has not been developed to determine if the facility has a high potential to discharge pollutants as described in Part I E 6c. If the facility is determined to be a high-priority facility with a high potential to discharge pollutants, Mason shall develop a SWPPP meeting the requirements of Part I E 6 d no later than December 31 of that same year.	Mason reviews annually any high-priority facility owned or operated by Mason for which a SWPPP has not been developed to determine if the facility has a high potential to discharge pollutants as described in Part I E 6c. If the facility is determined to be a high-priority facility with a high potential to discharge pollutants, Mason will develop a SWPPP meeting the requirements of Part I E 6 d no later than December 31 of that same year.

MCM #6 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
d.5	Employees whose duties include emergency spill control and response shall be trained in spill response. Emergency responders, such as firefighters and law-enforcement officers, trained on the handling of spill control and response as part of a larger emergency response training shall satisfy this training requirement and be documented in the training plan; and	Each SWPPP as required in Part I E 6 c shall include a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the material discharged, released, or spilled.	SWPPP has included a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the material discharged, released, or spilled.
d.6	Employees and contractors hired by the permittee who apply pesticides and herbicides are trained or certified in accordance with the Virginia Pesticide Control Act (§ 3.2-3900 et seq. of the Code of Virginia). Certification by the Virginia Department of Agriculture and Consumer Services (VDACS) Pesticide and Herbicide Applicator program shall constitute compliance with this requirement. Contracts for the application of pesticide and herbicides executed after the effective date of this permit shall require contractor certification.	Mason (either employees or contractors) shall be trained or certified in accordance with the Virginia Pesticide Control Act to ensure the proper disposal of waste materials, including landscape wastes.	Mason will train or certify employees or contractors in accordance with the Virginia Pesticide Control Act to ensure the proper disposal of waste materials, including landscape wastes.
е	The permittee shall maintain documentation of each training event conducted by the permittee to fulfill the requirements of Part I E 6 m for a minimum of three years after the training event. The documentation shall include the following information:		
e.1	The date when applicable employees have completed the training event;	The training event documentation shall include the date of the training event.	The training event documentation includes the date of the training event.
e.2	The number of employees attending the training event; and	The training event documentation shall include the date of the number of employees attending the training event.	The training event documentation includes the date of the number of employees attending the training event.
e.3	The training objectives and good housekeeping procedures required under Part I E 6 a covered by training activity.	The training event documentation shall include the objective of the training event.	The training event documentation includes the objective of the training event.
	The permittee may fulfill the training requirements in Part I E 6 m, in total or in part, through regional training programs involving two or more MS4 permittees; however, the permittee remains responsible for ensuring compliance with the training requirements.	Mason shall fulfill the training requirements in Part I E 6 m, in total or in part, through regional training programs involving two or more MS4 permittees; however, the permittee shall remain responsible for ensuring compliance with the training requirements.	Mason has fulfilled the training requirements in Part I E 6 m, in total or in part, through regional training programs involving two or more MS4 permittees
g	Within 12 months of permit coverage, the permittee shall identify any new high-priority facilities located in expanded 2020 census urban areas with a population of at least 50,000.	N/A	N/A
h	Within 36 months of permit coverage, the permittee shall implement SWPPPs for high-priority facilities meeting the conditions of Part I E 6 I and which are located in expanded 2020 census urban areas with a population of at least 50,000.	N/A	N/A
i	The permittee shall maintain and implement a site specific SWPPP for each high-priority facility as defined in 9VAC25-890-1 that does not have or require separate VPDES permit coverage, and which any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt, or runoff:		
1.1	Areas where residuals from using, storing, or cleaning machinery or equipment remain and are exposed to stormwater;	Mason shall report areas where residuals are used, stores, and cleaned.	Mason shall report areas where residuals are used, stores, and cleaned.
i.2	Materials or residuals on the ground or in stormwater inlets from spills or leaks;	Mason shall keep materials or residuals on the ground or in stormwater inlets from spills or leaks	Mason shall keep materials or residuals on the ground or in stormwater inlets from spills or leaks

MCM #6 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
i.3	Material handling equipment;	Mason shall report material handling equipment	Mason shall report material handling equipment
i.4	materials or products that would be expected to be mobilized in stormwater runoff during loading or unloading or transporting activities (e.g., rock, salt, fill dirt);	Mason shall report material or products that could be mobilized in stormwater runoff.	Mason shall report material or products that could be mobilized in stormwater runoff.
i.5	Materials or products stored outdoors (except final products intended for outside use where expose to stormwater does not result in the discharge of pollutants);	Mason shall report material or products stored outdoors.	Mason shall report material or products stored outdoors.
i.6	Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated, or leaking storage drums, barrels, tanks, and similar containers;	Mason shall report material or products that could be mobilized in stormwater runoff.	Mason shall report material or products that could be mobilized in stormwater runoff.
i.7	Waste material except waste in covered, nonleaking containers (e.g., dumpsters);	Mason shall report waste material not covered or in a nonleaking container.	Mason shall report waste material not covered or in a nonleaking container.
i.8	Application or disposal of process wastewater (unless otherwise permitted); or	Mason shall apply or disposal of process wastewater.	Mason shall apply or disposal of process wastewater.
i.9	Particulate matter or visible deposits of residuals from roof stacks, vents, or both not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater runoff.	Mason shall report any particulate matter or visible deposits of nonregulated stormwater runoff.	Mason shall report any particulate matter or visible deposits of nonregulated stormwater runoff.
j	Each SWPPP as required in Part I E 6 g shall include the following:		
j.1	A site description that includes a site map identifying all outfalls, direction of stormwater flows, existing source controls, and receiving water bodies;	Each SWPPP as required in Part I E 6 c shall include a site description that includes a site map identifying all outfalls, direction of stormwater flows, existing source controls, and receiving water bodies.	SWPPP includes a site description that includes a site map identifying all outfalls, direction of stormwater flows, existing source controls, and receiving water bodies.
j.2	A description and checklist of the potential pollutants and pollutant sources;	Each SWPPP as required in Part I E 6 c shall include a description and checklist of the potential pollutants and pollutant sources.	SWPPP includes a description and checklist of the potential pollutants and pollutant sources.
j.3	A description of all potential nonstormwater discharges;	Each SWPPP as required in Part I E 6 c shall include a description of all potential nonstormwater discharges.	SWPPP includes a description of all potential nonstormwater discharges.
j.4	A description of all structural control measures, such as stormwater management facilities and other pollutant source controls, applicable to SWPPP implementation (e.g., permeable pavement or oil-water separators that discharge to sanitary sewer are not applicable to the SWPPP), such as oil-water separators, and inlet protection designed to address potential pollutants and pollutant sources at risk of being discharged to the MS4;	Each SWPPP as required in Part I E 6 c shall include a description of all potential nonstormwater discharges.	SWPPP includes a description of all potential nonstormwater discharges.
j.5	A maintenance schedule for al stormwater management facilities and other pollutant source controls applicable to SWPPP implementation described in Part I E 6 h (4);	Each SWPPP as required in Part I E 6 c shall include a description of all potential nonstormwater discharges.	SWPPP includes a description of all potential nonstormwater discharges.
j.6	Site specific written procedures designed to reduce and prevent pollutant discharge that incorporated by reference applicable good housekeeping procedures required under Part I E 6 a and b;	Each SWPPP as required in Part I E 6 c shall include a written procedures designed to reduce and prevent pollutant discharge.	SWPPP includes a written procedures designed to reduce and prevent pollutant discharge.
j.7	A description of the applicable training as required in Part I E 6 d (4) m ;	Each SWPPP as required in Part I E 6 c shall include a description of the applicable training as required in Part I E 6 m.	SWPPP includes a description of the applicable training as required in Part I E 6 m.
j.8	An inspection frequency of no less than once per year and maintenance requirements for site specific source controls. The date of each inspection and associated findings and follow-up shall be logged in each SWPPP; and	Each SWPPP as required in Part I E 6 c shall include an inspection frequency of no less than once per year and maintenance requirements for site specific source controls. The date of each inspection and associated findings and follow-up shall be logged in each SWPPP.	SWPPP includes an inspection frequency of no less than once per year and maintenance requirements for site specific source controls. The date of each inspection and associated findings and follow-up can be found in each SWPPP.

MCM #6 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
j.9	A log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the following information:		
j.9.a	Date of incident;	Each SWPPP as required in Part I E 6 c shall include a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the date of incident.	SWPPP has included a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the date of incident.
j.9.b	Material discharged, released, or spilled; and	Each SWPPP as required in Part I E 6 c shall include a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the material discharged, released, or spilled.	SWPPP has included a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the material discharged, released, or spilled.
j.9.c	Estimated quantity discharged, released or spilled.	Each SWPPP as required in Part I E 6 c shall include a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the estimated quantity discharged, released or spilled.	SWPPP has included a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the estimated quantity discharged, released or spilled.
j.10	A log of modifications to the SWPPP made as the result of any unauthorized discharge, release, or spill in accordance Part I E 6 j no changes in facility activities and operation requiring SWPPP modification; and	Each SWPPP as required in Part I E 6 c shall include a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the estimated quantity discharged, released or spilled.	SWPPP has included a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the estimated quantity discharged, released or spilled.
j.11	The point of contact for SWPPP implementation.	Each SWPPP as required in Part I E 6 c shall include a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the estimated quantity discharged, released or spilled.	SWPPP has included a log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the estimated quantity discharged, released or spilled.
k	No later than June 30 of each year, the permittee shall annually review any high-priority facility owned or operated by the permittee for which a SWPPP has not been developed to determine if the facility has a high potential to discharge pollutants as described in Part I E 6 g. If the facility is determined to be a high-priority facility with a high potential to discharge pollutants, the permittee shall develop a SWPPP meeting the requirements of Part I E 6 h no later than December 31 of that same year.	No later than June 30 of each year, Mason shall annually review any high-priority facility owned or operated by the permittee for which a SWPPP has not been developed to determine if the facility has a high potential to discharge pollutants as described in Part I E 6 g. If the facility is determined to be a high-priority facility with a high potential to discharge pollutants, Mason shall develop a SWPPP meeting the requirements of Part I E 6 h no later than December 31 of that same year.	No later than June 30 of each year, Mason reviews annually any high-priority facility owned or operated by Mason for which a SWPPP has not been developed to determine if the facility has a high potential to discharge pollutants as described in Part I E 6 g. If the facility is determined to be a high-priority facility with a high potential to discharge pollutants, Mason will develop a SWPPP meeting the requirements of Part I E 6 h no later than December 31 of that same year.
ı	The permittee shall review the contents of any site specific SWPPP no later than 30 days after any unauthorized discharge, release, or spill reported in accordance with Part IV III G to determine if additional measures are necessary to prevent future unauthorized discharges, releases, or spills. If necessary, the SWPPP shall be updated no later than 90 days after the unauthorized discharge.	Mason shall review the contents of any site specific SWPPP no later than 30 days after any unauthorized discharge, release, or spill reported in accordance with Part III G to determine if additional measures are necessary to prevent future unauthorized discharges, releases, or spills. If necessary, the SWPPP shall be updated no later than 90 days after the unauthorized discharge.	Mason reviews the contents of any site specific SWPPP no later than 30 days after any unauthorized discharge, release, or spill reported in accordance with Part III G to determine if additional measures are necessary to prevent future unauthorized discharges, releases, or spills. If necessary, the SWPPP will be updated no later than 90 days after the unauthorized discharge.
m	The SWPPP shall be kept at the high-priority facility with a high potential to discharge and utilized as part of staff training required in Part I E 6 d (4). The SWPPP and associated documents may be maintained as a hard copy or electronically as long as the documents are available to employees at the	The SWPPP shall be kept at the high-priority facility with a high potential to discharge and utilized as part of staff training required in Part I E 6 d (4).	The SWPPP has been kept at the high-priority facility with a high potential to discharge and utilized as part of staff training required in Part I E 6 d (4).
n	If activities change at a facility such that the facility no longer meets the criteria of a high-priority facility, the permittee may remove the facility from the list of high-priority facilities with a high potential to discharge pollutants.	Mason may remove the facility from the list of high-priority facilities with a high potential to discharge pollutants if activities change at a facility such that the facility no longer meets the criteria of a high priority facility with a high potential to discharge pollutants as described in Part I E 6 c.	Mason will remove the facility from the list of high-priority facilities with a high potential to discharge pollutants if activities change at a facility such that the facility no longer meets the criteria of a high priority facility with a high potential to discharge pollutants as described in Part I E 6 c.

MCM #6 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
O	If activities change at a facility such that the facility no longer meets the criteria requiring SWPPP coverage as described in Part I E 6 g, the permittee may remove the facility from the list of high priority facilities that require SWPPP coverage.	Mason may remove the facility from the list of high-priority facilities with a high potential to discharge pollutants if activities change at a facility such that the facility no longer meets the criteria of a high priority facility with a high potential to discharge pollutants as described in Part I E 6 c.	Mason will remove the facility from the list of high-priority facilities with a high potential to discharge pollutants if activities change at a facility such that the facility no longer meets the criteria of a high priority facility with a high potential to discharge pollutants as described in Part I E 6 c.
р	The permittee shall maintain and implement turf and landscape nutrient management plans that have been developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia on all lands owned or operated by the permittee where nutrients are applied to a contiguous area greater than one acre. If nutrients are being applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's	Mason shall maintain and implement turf and landscape nutrient management plans that have been developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia on all lands owned or operated by the permittee where nutrients are applied to a contiguous area greater than one acre. If nutrients are being applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's	Mason has maintained and implemented turf and landscape nutrient management plans that have been developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia on all lands owned by Mason where nutrients are applied to a contiguous area greater than one acre. If nutrients are being applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's recommendations.
q	Within 12 months of permit coverage, the permittee shall identify contiguous areas greater than one acre located in expanded 2020 census urban areas with a population of at least 50,000 and within the permittee's MS4 service area requiring turf and landscape nutrient management plans.	Mason shall identify contiguous areas greater than one acre located in expanded 2020 census urban areas with a population of at least 50,000 and within the MS4 service area requiring turf and landscape nutrient management plans.	Mason has identified contiguous areas greater than one acre located in expanded 2020 census urban areas with a population of at least 50,000 and within the MS4 service area requiring turf and landscape nutrient management plans.
r	Within 36 months of permit coverage, the permittee shall implement turf and landscape nutrient management plans on contiguous areas greater than one acre located in expanded 2020 census urban areas with a population of at least 50,000 and within the permittee's MS4 service area.	Mason shall implement turf and landscape nutrient management plans on contiguous areas greater than one acre located in expanded 2020 census urban areas with a population of at least 50,000 and within the MS4 service area.	Mason has implemented turf and landscape nutrient management plans on contiguous areas greater than one acre located in expanded 2020 census urban areas with a population of at least 50,000 and within the MS4 service area.
S	If nutrients are being applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's recommendations. For newly established turf where nutrients are applied to a contiguous area greater than one acre, the permittee shall implement a nutrient management plan no later than six months after the site achieves final stabilization.	Mason shall implement a nutrient management plan for newly established turf where nutrients are applied to a contiguous area greater than one acre no later than six months after the site achieves final stabilization. If nutrients are being applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's recommendations.	Mason has implemented a nutrient management plan for newly established turf where nutrients are applied to a contiguous area greater than one acre no later than six months after the site achieves final stabilization. If nutrients are being applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's recommendations.
t	Nutrient management plans developed in accordance with Part I E 6 n shall be submitted to the Department of Conservation and Recreation (DCR) for approval.	Mason shall develop nutrient management plans in accordance with Part I E 6 n and submit to the Department of Conservation and Recreation (DCR) for approval.	Mason will develop nutrient management plans in accordance with Part I E 6 n and submit to the Department of Conservation and Recreation (DCR) for approval.
u	Nutrient management plans that are expired as of the effective date of this permit shall be submitted to DCR for renewal within six months after the effective date of the permit. Thereafter, all nutrient management plans shall be submitted to DCR at least 30 days prior to nutrient management plan expiration. Within 36 months of permit coverage, no nutrient management plans maintained by the permittee in accordance with Part I E 6 n shall be expired due to DCR documented noncompliance with 4VAC50 85-130 provided to the permittee.	30 days prior to nutrient management plan expiration in accordance with Part I E 6 n.	Mason will submit nutrient management plans to DCR at least 30 days prior to nutrient management plan expiration in accordance with Part I E 6 n.
V	Nutrient management plans may be maintained as a hard copy or electronically as long as the documents are available to employees at the applicable site.	Mason shall maintain a hard copy or electronic copy of Nutrient Management plans as long as the documents are available to employees at the applicable site.	Mason has maintained a hard copy or electronic copy of Nutrient Management plans as long as the documents are available to employees at the applicable site.

MCM #6 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
w	Nontraditional permittees with lands regulated under § 10.1- 104.4 of the Code of Virginia, including state agencies, state colleges and universities, and other state government entities, shall continue to implement turf and landscape nutrient management plans in accordance with this statutory requirement.	N/A	N/A
X	The MS4 program plan shall include:		
x.1	A list of written good housekeeping procedures for the operations and maintenance activities as required by Part I E 6 a and b;	The MS4 program plan shall include the written procedures for the operations and maintenance activities as required by Part I E 6 a and b.	The MS4 program plan has included the written procedures for the operations and maintenance activities as required by Part I E 6 a and b.
x.2	A list of all high-priority facilities owned or operated by the permittee required to maintain an SWPPP in accordance with Part I E 6 g that includes for facility name, facility location, and the location of the SWPPP hardcopy or electronic document being maintained. The SWPPP for each high-priority facility shall be incorporated by reference;	The MS4 program plan shall include a list of all high-priority facilities owned or operated by the permittee required in accordance with Part I E 6 g, including the facility name, location, and the location of the SWPPP document being maintained.	The MS4 program plan will include a list of all high-priority facilities owned or operated by the permittee required in accordance with Part I E 6 g, including the facility name, location, and the location of the SWPPP document being maintained.
х.3	A list of lands for which turf and landscape nutrient management plans are required in accordance with Part I E 6 n and s, including the following information:		
x.3.a	The total acreage on which nutrients are applied;	The MS4 program plan shall include a list of lands for which turf and landscape nutrient management plans are required in accordance with Part I E 6 i and j, including the total acreage on which nutrients are applied.	The MS4 program plan has included a list of lands for which turf and landscape nutrient management plans are required in accordance with Part I E 6 i and j, including the total acreage on which nutrients are applied.
x.3.b	The DCR approval date of the most recently approved nutrient management plan for the property	The MS4 program plan shall include the date of the most recently approved nutrient management plan for the property.	The MS4 program plan has included the date of the most recently approved nutrient management plan for the property.
х.3.с	The location of the nutrient management plan hardcopy or electronic document being maintained;	The MS4 program plan shall include the location of the nutrient management plan document being maintained.	The MS4 program plan includes the location of the nutrient management plan document being maintained.
x.4	A summary of mechanisms the permittee uses to ensure contractors working on behalf of the permittees implement the necessary good housekeeping and pollution prevention procedures, and stormwater pollution plans as appropriate; and	The MS4 program plan shall include a summary of mechanisms the permittee uses to ensure contractors working on behalf of the permittees implement the necessary good housekeeping and pollution prevention procedures, and stormwater pollution plans as appropriate.	The MS4 program plan has included a summary of mechanisms the permittee uses to ensure contractors working on behalf of the permittees implement the necessary good housekeeping and pollution prevention procedures, and stormwater pollution plans as appropriate.
x.5	The written training plan as required in Part I E 6 d.	The MS4 program plan shall include the written training plan as required in Part I E 6 d.	The MS4 program plan has included the written training plan as required in Part I E 6 d.
у	The annual report shall include the following:		
y.1	A summary of any written procedures developed or modified in accordance with Part I E 6 a and b during the reporting period;	The annual report shall include a summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period.	The annual report will include a summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period.
у.2	a confirmation statement that all high-priority facilities were reviewed to determine if SWPPP coverage is needed during the reporting period;	The annual report shall include a summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period.	The annual report will include a summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period.
у.3	A list of any new SWPPPs developed in accordance Part I E 6 i during the reporting period;	The annual report shall include a summary of any SWPPPs developed in accordance with Part I E 6 i.	The annual report will include a summary of any SWPPPs developed in accordance with Part I E 6 i.

MCM #6 Subsection	Specific Requirement of MCM	Standard Operating Procedures to Implement BMP	Measurable Goal by which each BMP strategy will be Evaluated
v. 4	A summary of any SWPPPs modified in accordance with Part I E 6	The annual report shall include a summary of any SWPPPs	The annual report will include a summary of any SWPPPs
y.4	j, 6 l, or 6m;	modified in accordance with Part I E 6 j, 6 l, or 6m.	modified in accordance with Part I E 6 j, 6 l, or 6m.
v E	The rationale of any high-priority facilities delisted in accordance	The annual report shall include the rationale of any high-priority	The annual report will include the rationale of any high-priority
y.5	with Part I E 6 I or m during the reporting period;	facilities delisted in accordance with Part I E 6 I or 6 m.	facilities delisted in accordance with Part I E 6 l or 6 m.
у.6	The status of each nutrient management plan as of June 30 of the reporting year (e.g., approved, submitted and pending approval, and expired);	•	The annual report will include the status of each nutrient management plan as of June 30 of the reporting year.
у.7	A list oof the training activities conducted in accordance with Part I E 6 d, including the following information:		
v.7.2	The completion date for the training activity;	The annual report shall include a list of training activities with	The annual report will include a list of training activities with
y.7.a		completion date conducted in accordance with Part I E 6 d.	completion date conducted in accordance with Part I E 6 d.
y.7.b	The number of employees who completed the training activity; and	The annual report shall include a list of training activities with the	The annual report will include a list of training activities with the
		number of employees who completed the training activity	number of employees who completed the training activity
		conducted in accordance with Part I E 6 d.	conducted in accordance with Part I E 6 d.
V. /.C	The objectives and good housekeeping procedures covered by the training activity	The annual report shall include a list of training activities with the	The annual report will include a list of training activities with the
		objectives and good housekeeping procedures cover by the	objectives and good housekeeping procedures cover by the
		training activity conducted in accordance with Part I E 6 d.	training activity conducted in accordance with Part I E 6 d.