UNIVERSITY of VIRGINIA | Environmental Resources

September 27, 2022

Megan O'Gorek
DEQ – Valley Regional Office
4411 Early Road
Harrisonburg, VA 22801

RE: MS4 Annual Report, Permit Number VAR040073, University of Virginia, Charlottesville, VA

Dear Megan:

As required under our MS4 Permit, attached is the annual report covering the actions conducted by the University of Virginia during the July 1, 2021 through June 30, 2022 reporting period. Updates on progress toward achieving Chesapeake Bay TMDL Action Plan goals and applicable local TMDL action plan goals are included as an appendix to the annual report.

If you or your staff have any questions, please contact me at (434) 982-5540 or by email at jsw6d@virginia.edu

Sincerely,

Jessica S. Wenger

Jessica S. Wenger
Environmental Projects Manager

CC: Donald Sundgren, UVA Associate Vice President and Chief Facilities Officer
Benjamin Hays, UVA University Building Official
Kristin Carter, UVA Associate Director for Environmental Resources
Dawson Garrod, UVA Environmental Engineer

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DOCUMENT CERTIFICATION

Facility Name: University of Virginia
Facility Location: Charlottesville, Virginia
Permit Number: VAR040073
Type of Submittal Attached: Annual MS4 Report

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

Name of Responsible Official (Print): Donald E. Sundgren
Title: Associate Vice President and Chief Facilities Officer

Signature:  Date: 9/26/22

Minimum Control Measure No. 1: Public Education and Outreach

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
1.a. - The permittee shall implement a public education and outreach program designed to					
1.a.(1)-(3) - 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; Increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications; and Implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.	The Rivanna Stormwater Education Partnership (RSEP) was founded in 2003 to provide a regional approach to educating the public about stormwater pollution prevention and stormwater management. UVA will continue to participate in RSEP. RSEP will develop a Public Outreach and Education Plan which will include efforts to increase the public's awareness of the high priority stormwater issues, list of planned outreach and education programs, the public audience, the strategies to be used for communication, and the anticipated time periods the messages will be communicated or made available to the public. Cost and resource sharing allows RSEP members to participate in a more effective and robust approach to public outreach and education.	RSEP will meet at least 6 times per year and maintain a website with information about stormwater pollution prevention and management. RSEP will continue to provide general education to the public through brochures, ads, etc. Whenever possible, illegal discharge-related messages will be incorporated into greater outreach campaigns.	The RSEP website can be found at http://rivanna-stormwater.org. UVA's stormwater website can be found at https://pollutionprevention.virginia.edu/storm water-mgmt/. RSEP's Outreach and Education Plan is included in on the website's Outreach and Education page: https://pollutionprevention.virginia.edu/storm water-mgmt/education-outreach/. Some planned outreach and education efforts may be modified due to COVID-19 restrictions on in-person gatherings issued by the Governor of Virginia and the UVA President. Any such modifications will be noted in the appropriate annual report.	Existing, Ongoing	ER, FM, RSEP
1.a.(1)-(3) Annual Report Update: RSEP met 7 times during the reporting period. The RSEP website does not contain MS4 permit related information, but specifically focuses on outreach and education as a resource to the local community, such as the Love Your Watershed campaign https://rivanna-stormwater.org/additional-resources/love-your-watershed/. RSEP's website also contains a link to a Story Map, which explains how watersheds work and ways to keep them pollution free. https://rivanna-stormwater.org/local-watersheds/storymap/					
1.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.					
(there are no sub sections to this requirement)	Through RSEP, local entities identified the three high priority water quality issues that are of greatest concern to the local community: runoff volume reductions, potential runoff pollutants, and TMDL impairments as the three high priority stormwater issues. The rationale for choosing these issues is described within the RSEP Outreach and Education Plan. In addition to participation in RSEP campaigns, UVA will undertake efforts to specifically target the University student population.	Number of stormwater education and outreach campaigns undertaken annually which target the identified high priority water quality issues.	Same documentation as described in 1.a.(1)-(3).	Existing, Ongoing	ER, FM, RSEP

Minimum Control Measure No. 1: Public Education and Outreach

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
1.b. Annual Report Update: The RSEP Outreach and Education Plan with a UVA Addendum is available on the Outreach and Education page of the website: https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/. The list of outreach and education campaigns undertaken during the reporting cycle is included in Appendix A. Some of the usual in-person activities normally undertaken during a permit cycle were not held due to limitations and restrictions caused by the COVID-19 pandemic, but more were able to be held than during the previous reporting period. The Outreach and Education Plan was modified during the previous reporting period to note COVID-19 related impacts and potential impacts on future planning. RSEP has also collaborated with other local groups, such as the Piedmont Master Gardeners, on outreach efforts. Stickers with the "Love Your Watershed" logo were a popular give-away at events and in stream investigation kits provided to local schools by the Rivanna Conservation Alliance. https://rivanna-stormwater.org/additional-resources/love-your-watershed/					
1.c. - The high-priority public education and outreach program, as a whole, shall:					
1.c. (1)-(4) - Clearly identify the high-priority stormwater issues; Explain the importance of the high-priority stormwater issues; Include measures or actions the public can take to minimize the impact of the high-priority stormwater issues; and Provide a contact and telephone number, website, or location where the public can find out more information.	The RSEP Outreach and Education Plan as described in 1.a.(1)-(3) includes a list of planned outreach and education programs, the public audience, the strategies to be used for communication, and the anticipated time periods the messages will be communicated or made available to the public. RSEP and UVA will ensure that the educational and outreach program includes the required information.	Number of educational efforts undertaken annually.	Same documentation as described in 1.a.(1)-(3).	Existing, Ongoing	ER, FM, RSEP
1.c. (1)-(4) Annual Report Update: The RSEP Outreach and Education Plan with a UVA Addendum is available on the Outreach and Education page of the website: https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/. The list of outreach and education campaigns undertaken during the reporting cycle is included in Appendix A. The Outreach and Education Plan was updated during the previous reporting period to note COVID-19 related impacts during this reporting period as well as any anticipated impacts on future planning.					
1.d. - The permittee shall use two or more of the strategies listed in Table 1 below 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.					
Table 1 Strategies: Traditional written materials; Alternative materials; Signage; Media Materials; Speaking engagements; Curriculum materials; Training materials	RSEP's Outreach and Education Plan (available at https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/) provides specifics on planned strategies to be used. The Plan will be updated during the permit cycle if new strategies are identified.	Utilize two or more strategies annually to communicate high priority stormwater issues either through RSEP or at UVA individually.	Same documentation as described in 1.a.(1)-(3).	Existing, Ongoing	ER, FM, RSEP
1.d. Annual Report Update: The list of outreach and education campaigns undertaken during the reporting cycle is included in Appendix A. Some of the usual in-person activities normally undertaken during a permit cycle were not held due to limitations and restrictions caused by the COVID-19 pandemic, but more were able to be held than during the previous reporting period.					
1.e. - The permittee may coordinate its public education and outreach efforts with other MS4 permittees; however, each permittee shall be individually responsible for meeting all of its state permit requirements.					

Minimum Control Measure No. 1: Public Education and Outreach

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
(there are no sub sections to this requirement)	UVA partners with other RSEP members, including Albemarle County and the City of Charlottesville, on its public education and outreach strategy. However, each permittee reports compliance with the permit requirements individually in their annual report. In addition, UVA may undertake additional public outreach and education measures beyond those planned with RSEP.	Compliance with state permit requirements.	Same documentation as described in 1.a.(1)-(3).	Existing, Ongoing	ER, FM, RSEP
1.e. Annual Report Update: The education and outreach activities listed in Appendix A indicate whether efforts were undertaken by RSEP or UVA.					
Additional Comments on Public Education and Outreach	The MS4 Program Plan is a planning document to aid UVA staff in management of UVA's MS4 program. Revisions to the anticipated BMPs described in this MS4 Program Plan are expected throughout the life of this permit as part of the iterative process to reduce pollutant loading and protect water quality to the maximum extent practical. Each MCM will be reviewed and evaluated annually for effectiveness to determine whether or not changes to the MS4 Program Plan are necessary. Revisions required as a result of the iterative process or through evaluation of program effectiveness will be noted during the annual reporting process and appropriate updates will be made to the MS4 Program Plan. Internal documents, policies, and SOPs referenced in the Program Plan are intended to provide guidance and UVA reserves the right to change these documents at any time and in any manner. The MS4 General Permit requires these documents to be in place and the presence of the documents, not the details of their content, are the enforceable requirement of the permit. Revisions to the MS4 Program Plan or referenced documents will be made within 60 days upon discovery of the need for a change unless otherwise specified in the permit language. All BMPs and strategies are being implemented with consideration for the Chesapeake Bay and Local TMDLs and to support developing action plans to address such TMDLs in accordance with MS4 regulatory requirements. Unless otherwise stated, no monitoring data is collected for the MS4 program. Any documents noted as available upon request may be requested by emailing storm-water@virginia.edu.				

A - University Athletics Department
EHS - UVA Office of Environmental Health and Safety
ER - UVA Environmental Resources
FM - UVA Facilities Management
OUBO - UVA Office of the University Building Official
PD - UVA Police Department
RSEP - Rivanna Stormwater Education Partnership

Minimum Control Measure No. 2: Public Involvement and Participation

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
2.a. - The permittee shall develop and implement procedures for the following:					
2.a.(1)-(5) - The public to report potential illicit discharges, improper disposal, or spills to the MS4, complaints regarding land disturbing activities, or other potential stormwater pollution concerns; The public to provide input on the permittee's MS4 program plan; Receiving public input or complaints; Responding to public input received on the MS4 program plan or complaints; and Maintaining documentation of public input received on the MS4 program and associated MS4 program plan and the permittee's response.	The public can report input on discharges or spills via the RSEP or UVA website. The public can provide input about UVA's program plan via the UVA website. UVA will maintain records of all public input or complaints received, responses provided, and how the comment was incorporated into the MS4 Program Plan or how the complaint was handled. Input received about the MS4 program will be provided with the appropriate annual report. Reported spills and illicit discharges will be tracked on a separate spreadsheet as described in 3.c.(1).	The public can easily find reporting information on UVA's MS4, illicit discharges or spills on the UVA website. The public can also easily report illicit discharge or spill information via the RSEP website. Both websites are regularly maintained.	http://rivanna-stormwater.org https://pollutionprevention.virginia.edu/stormwater-mgmt/	Existing, Ongoing	ER, FM, RSEP
2.a.(1)-(5) Annual Report Update: Both reporting websites were available during the reporting process. One discharge report came in through the RSEP website, but it was not within UVA's jurisdiction. No reports of spills or illicit discharges came in through the UVA website. Most reports came directly to ER or FM staff, often by other FM staff who had been trained in spill response. No public input on the MS4 Program was received during the reporting period.					
2.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:					
2.b.(1)-(5) - The effective MS4 permit and coverage letter; The most current MS4 program plan or location where the MS4 program plan can be obtained; The annual report for each year of the term covered by this permit no later than 30 days after submittal to the department; A mechanism for the public to report potential illicit discharges, improper disposal, or spills to the MS4, complaints regarding land disturbing activities, or other potential stormwater pollution concerns in accordance with Part I E 2 a (1); and Methods for how the public can provide input on the permittee's MS4 program plan in accordance with Part I E 2 a (2).	All required MS4 permit related information, including a mechanism for the public to report environmental concerns, is posted on the FM website. The public can provide comments on UVA's MS4 program plan at any time during the permit cycle at the same website.	Copies of the plan, annual report, and opportunities to provide input are kept up to date and are readily available to the public. Any documents will be posted within 30 days of submittal or completion.	https://pollutionprevention.virginia.edu/stormwater-mgmt/MS4-permit/ https://pollutionprevention.virginia.edu/stormwater-mgmt/	Existing, Ongoing	ER, FM
2.b.(1)-(5) Annual Report Update: UVA's MS4 website has been active since before the start of the previous permit cycle. The website was updated to take into account new requirements for this reporting cycle and is updated each year with the annual report as required. In Spring of 2022, the website was refreshed and moved to a new homepage: https://pollutionprevention.virginia.edu/					

Minimum Control Measure No. 2: Public Involvement and Participation

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
2.c. - The permittee shall implement no less than four activities per year from two or more of the categories listed in Table 2 below to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.					
Table 2 Public Involvement Opportunities - Monitoring, restoration, educational events, disposal or collection events, pollution prevention.	As part of the RSEP Education and Outreach plan described in 1.a.(1)-(3), activities have been identified for public involvement. In addition to participation in RSEP campaigns, UVA will undertake efforts to specifically target the University student population via efforts with UVA's Office for Sustainability and the Clean Water Working Group.	Participate in a minimum of four activities annually either through RSEP or as UVA individually.	Same documentation as described in 1.a.(1)-(3).	Existing, Ongoing	ER, FM, RSEP
2.c. Annual Report Update: UVA participated in more than the minimum of four public involvement activities during the reporting period; a complete list is provided in Appendix A. Some in-person activities normally undertaken during a reporting cycle were not held due to limitations and restrictions caused by COVID-19 pandemic, but more were held than during the previous reporting period.					
2.d. - 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.					
(there are no sub sections to this requirement)	UVA partners with other RSEP members, including Albemarle County and the City of Charlottesville, on its public involvement and participation efforts. However, each permittee reports compliance with the permit requirements individually in their annual report. In addition, UVA may undertake additional public involvement opportunities beyond those planned with RSEP.	Compliance with state permit requirements.	Same documentation as described in 1.a.(1)-(3).	Existing, Ongoing	ER, FM, RSEP
2.d. Annual Report Update: The public involvement activities listed in Appendix A indicate whether efforts were undertaken by RSEP or UVA.					
Additional Comments on Public Involvement and Participation	The MS4 Program Plan is a planning document to aid UVA staff in management of UVA's MS4 program. Revisions to the anticipated BMPs described in this MS4 Program Plan are expected throughout the life of this permit as part of the iterative process to reduce pollutant loading and protect water quality to the maximum extent practical. Each MCM will be reviewed and evaluated annually for effectiveness to determine whether or not changes to the MS4 Program Plan are necessary. Revisions required as a result of the iterative process or through evaluation of program effectiveness will be noted during the annual reporting process and appropriate updates will be made to the MS4 Program Plan. Internal documents, policies, and SOPs referenced in the Program Plan are intended to provide guidance and UVA reserves the right to change these documents at any time and in any manner. The MS4 General Permit requires these documents to be in place and the presence of the documents, not the details of their content, are the enforceable requirement of the permit. Revisions to the MS4 Program Plan or referenced documents will be made within 60 days upon discovery of the need for a change unless otherwise specified in the permit language. All BMPs and strategies are being implemented with consideration for the Chesapeake Bay and Local TMDLs and to support developing action plans to address such TMDLs in accordance with MS4 regulatory requirements. Unless otherwise stated, no monitoring data is collected for the MS4 program. Any documents noted as available upon request may be requested by emailing storm-water@virginia.edu.				

Minimum Control Measure No. 2: Public Involvement and Participation

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS

A - University Athletics Department
EHS - UVA Office of Environmental Health and Safety
ER - UVA Environmental Resources
FM - UVA Facilities Management
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PD - UVA Police Department
RSEP - Rivanna Stormwater Education Partnership

Minimum Control Measure No. 3: Illicit Discharge Detection and Elimination

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
3.a. The permittee shall develop and maintain an accurate MS4 map and information table as follows:					
3.a.(1) - A map of the storm sewer system owned or operated by the permittee within the census urbanized area identified by the 2010 decennial census that includes, at a minimum: (a) MS4 outfalls discharging to surface waters, except as follows: 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 In cases where the MS4 outfall discharges to receiving water channelized underground, the permittee may elect to map the point downstream at which the receiving water emerges above ground as an outfall discharge location. If there are multiple outfalls discharging to an underground channelized receiving water, the map shall identify that an outfall discharge location represents more than one outfall. This is an option a permittee may choose to use and recognizes the difficulties in accessing outfalls to underground channelized stream conveyances for purposes of mapping, screening, or monitoring. (b) A unique identifier for each mapped item required in Part I E 3; (c) The name and location of receiving waters to which the MS4 outfall or point of discharge discharges; (d) MS4 regulated service area; and (e) stormwater management facilities owned or operated by the permittee.	GIS technology is used to accurately map all stormwater discharge outfall locations and associated required information. All stormwater outfalls or points of discharge have been identified for annual inspection and illicit discharge tracking. Maps are updated as outfall locations change due to construction projects. The map will be maintained and updated as soon as possible after changes occur but no later than October 1 of each year for changes occurring through June 30 of that same year.	Accurate, up-to-date inventory of UVA's storm sewer system, including all outfalls and points of discharge.	A GIS map and associated information table is stored on a secure UVA site and may be made available upon request.	Existing, Ongoing	ER, FM
3.a.(1) Annual Report Update: UVA's stormwater map was up to date by October 1 for changes occurring through June 30. UVA updates the GIS map with planned changes as soon as they are known, which allows the updates to be easily made once items are installed. In addition, the map is updated based on field observations and new survey technology as needed.					

Minimum Control Measure No. 3: Illicit Discharge Detection and Elimination

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
3.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): (a) A unique identifier as specified on the storm sewer system map; (b) The latitude and longitude of the outfall or point of discharge; (c) The estimated regulated acreage draining to the outfall or point of discharge; (d) The name of the receiving water; (e) The 6th Order Hydrologic Unit Code of the receiving water; (f) An indication as to whether the receiving water is listed as impaired in the Virginia 2016 305(b)/303(d) Water Quality Assessment Integrated Report; (g) The predominant land use for each outfall discharging to an impaired water; and (h) The name of any EPA approved TMDLs for which the permittee is assigned a waste load allocation.	UVA will continue to utilize GIS technology to accurately map all stormwater discharge outfall locations and associated required information. New information that was not previously required, such as predominant land use, will be added during this permit cycle. The information table will be maintained and updated as changes occur.	Accurate, up-to-date inventory of UVA's storm sewer system.	Same map and information table as described in 3.a.(1).	Existing, Ongoing	ER, FM
3.a.(2) Annual Report Update: UVA's GIS map includes an accurate, up-to-date map and table for identified outfalls and points of discharge as required.					
3.a.(3) - No later than July 1, 2019, the permittee shall submit to DEQ a GIS-compatible shape file of the permittee's MS4 map as described in Part I E 3 a. If the permittee does not have an MS4 map in a GIS format, the permittee shall provide the map as a PDF document.	As described in 3.a(1)-(2), UVA maintains an accurate GIS map and associated information table with information about UVA's storm sewer system and outfalls. This shape file will be shared with DEQ by the stated deadline.	Submittal of GIS shape file of UVA's MS4 map to DEQ by the specified deadline.	Same map and information table as described in 3.a.(1).	Existing, Ongoing	ER, FM
3.a.(3) Annual Report Update: UVA's GIS map shape files were submitted to Megan O'Gorek on June 4, 2019.					
3.a.(4) - 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.	As described in 3.a(1)-(2), UVA maintains an accurate GIS map and associated information table with information about UVA's storm sewer system and outfalls. These are updated as changes are made but, at minimum, will be updated no later than October 1 annually.	Accurate, up-to-date inventory of UVA's storm sewer system, updated by the specified deadline.	Same map and information table as described in 3.a.(1).	Existing, Ongoing	ER, FM
3.a.(4) Annual Report Update: No new TMDLs were approved during the reporting period. One new outfall was added both to the GIS map and the outfall inspection list during the reporting period.					

Minimum Control Measure No. 3: Illicit Discharge Detection and Elimination

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
3.a.(5) - 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.	UVA has provided written notification to the City of Charlottesville regarding physical interconnections to their MS4. Letters were also sent to Albemarle County and VDOT, though no physical interconnections have been identified to date. UVA will continue to maintain an up-to-date GIS map to identify any physical interconnections that may be made in the future.	Neighboring MS4s are informed of physical interconnections with UVA.	Copies of the written notification letters are available upon request.	Existing, Ongoing	ER, FM
3.a.(5) Annual Report Update: No additional notifications regarding physical interconnections were required to be made during the reporting period.					
3.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.					
(there are no sub sections to this requirement)	UVA has a policy specifically stating the University will prevent University activities from polluting the environment. All SOPs developed for activities which could create unauthorized nonstormwater discharges, reference illicit discharges as the reason the SOP is required. In addition, UVA has control of all activities occurring on UVA property and can work to address illicit discharge causing activity as soon as possible upon discovery.	Number of illicit discharges each year.	UVA's environmental policy is available here: https://uvapolicy.virginia.edu/policy/SEC-002 UVA's SOPs are available here:https://pollutionprevention.virginia.edu/soppp/	Existing, Ongoing	ER, FM
3.b. Annual Report Update: UVA had 3 reportable nonstormwater discharges that were reported to DEQ, one of which was a sanitary sewer overflow caused by Rivanna Water and Sewer Authority's operations on UVA property. The individual discharges are included in Appendix B.					
3.c. The permittee shall maintain, implement, and enforce illicit discharge detection and elimination (IDDE) written procedures designed to detect, identify, and address unauthorized nonstormwater discharges, including illegal dumping, to the small MS4 to effectively eliminate the unauthorized discharge. Written procedures shall include:					
3.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.	UVA has developed an SOP for Illicit Discharge Detection, for Sanitary Sewer Overflows, for responding to Bacteria Response related to RCA stream monitoring, and also for conducting Outfall Inspections. Since UVA owns the property on which its MS4 is located, illicit discharges on UVA property can be eliminated by addressing the activity causing the illicit discharge. UVA will continue to follow procedure for reporting and tracking illicit discharges and procedures for enforcing policies.	Follow SOPs and document number of spills, SSOs, and illicit discharge investigations annually.	UVA maintains a spreadsheet of all spills, illicit discharges, and incidents that had the potential to become illicit discharges. This spreadsheet is available upon request. SOPs are reviewed at least annually and the most recent version is available on the UVA website: https://pollutionprevention.virginia.edu/soppp/	Existing, Ongoing	ER, FM

Minimum Control Measure No. 3: Illicit Discharge Detection and Elimination

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
3.c.(1) Annual Report Update: One SSO occurred during the reporting period, which was caused by Rivanna Water and Sewer Authority draining water from their lagoon too quickly. RWSA's Observatory Water Treatment Plant is on UVA property, thus the overflow impacted a UVA sanitary sewer. UVA staff unclogged the line while RWSA staff helped apply lime on the spill location. RWSA planned to update their operational procedures to prevent future reoccurrence. Illicit discharges prevention efforts for the remaining 2 discharges, which were caused by contractors working on UVA's behalf, are further described in 6.a.					
3.c.(2) - Dry weather field screening protocols to detect, identify, and eliminate illicit discharges to the MS4. The protocol shall include: (a) A prioritized schedule of field screening activities and rationale for prioritization determined by the permittee based on such criteria as age of the infrastructure, land use, historical illegal discharges, dumping or cross connections; (b) If the total number of MS4 outfalls is equal to or less than 50, a schedule to screen all outfalls annually; (c) If the total number of MS4 outfalls is greater than 50, a schedule to screen a minimum of 50 outfalls annually such that no more than 50% are screened in the previous 12-month period. The 50% criteria is not applicable if all outfalls have been screened in the previous three years; and (d) A mechanism to track the following information: The unique outfall identifier; Time since the last precipitation event; The estimated quantity of the last precipitation event; Site descriptions; Whether or not a discharge was observed; and If a discharge was observed, the estimated discharge rate and visual characteristics of the discharge.	Utilize written IDDE procedures to detect illicit discharges, report them, investigate them, and document the investigation. Procedures were revised and updated to ensure compliance with new MS4 program requirements. UVA currently has more than 50 but less than 100 outfalls and plans to screen all outfalls annually. Outfalls that had problems during past inspections or that have a high potential for illicit discharges may be visited more frequently.	Number of outfalls screened annually.	UVA has a written SOP for outfall inspections as well as a form used to document outfall inspections. The outfall inspection form has been incorporated into UVA's maintenance tracking system, AiM, which allows the outfall inspections to be recorded and stored electronically.	Existing, Ongoing	ER, FM
3.c.(2) Annual Report Update: 78 dry weather outfalls were completed during the reportiong period using the outfall inspection SOP. No illicit discharges were discovered during dry weather screening.					
3.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.	UVA SOPs for illicit discharge detection and sanitary sewer overflows (SSOs) require staff to respond immediately to reports received.	Maintain staffing and equipment to respond to reports of illicit discharges, spills, and sanitary sewer overflows immediately upon notification.	Same spreadsheet as described in 3.c.(1)	Existing, Ongoing	ER, FM

Minimum Control Measure No. 3: Illicit Discharge Detection and Elimination

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
3.c.(3) Annual Report Update: UVA has adequate staff available to respond to illicit discharges and SSOs. The UVA Operator and FM Systems Control are available 24/7 to answer incoming calls and contact appropriate personnel to respond to illicit discharges or SSOs.					
3.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.	As stated in 3.c.(1), UVA has SOPs with methodologies to track illicit discharge investigations and will document if a source is unable to be identified.	Same goal as described in 3.c.(1)	Same spreadsheet as described in 3.c.(1)	Existing, Ongoing	ER, FM
3.c.(4) Annual Report Update: UVA staff follow SOPs to track illicit discharges. During the reporting period, the source of all surface spills and illicit discharges were able to be determined.					
3.c.(5) - Methodologies for conducting a follow-up investigation for illicit discharges that are continuous or that permittees expect to occur more frequently than a one-time discharge to verify that the discharge has been eliminated except as provided for in Part I E 3 c (4);	As stated in 3.c.(1), UVA has SOPs with methodologies to track illicit discharge investigations.	Same goal as described in 3.c.(1)	Same spreadsheet as described in 3.c.(1)	Existing, Ongoing	ER, FM
3.c.(5) Annual Report Update: There were no continuous or more frequent than a one-time discharge that occurred during the reporting period.					
3.c.(6)(a)-(e) -A mechanism to track all illicit discharge investigations to document the following: (a) The dates that the illicit discharge was initially observed, reported, or both; (b) The results of the investigation, including the source, if identified; (c) Any follow-up to the investigation; (d) Resolution of the investigation; and (e) The date that the investigation was closed.	As stated in 3.c.(1), UVA has a spreadsheet to track illicit discharge investigations which documents the required information.	Same goal as described in 3.c.(1)	Same spreadsheet as described in 3.c.(1)	Existing, Ongoing	ER, FM
3.c.(6)(a)-(e) Annual Report Update: UVA has a spreadsheet to track all surface spills and illicit discharges which includes all of the required information. Reportable illicit discharges are included as Appendix B. The full spreadsheet, which includes surface spills and other near misses is available upon request.					

Minimum Control Measure No. 3: Illicit Discharge Detection and Elimination

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
Additional Comments on Illicit Discharge Detection and Elimination	The MS4 Program Plan is a planning document to aid UVA staff in management of UVA's MS4 program. Revisions to the anticipated BMPs described in this MS4 Program Plan are expected throughout the life of this permit as part of the iterative process to reduce pollutant loading and protect water quality to the maximum extent practical. Each MCM will be reviewed and evaluated annually for effectiveness to determine whether or not changes to the MS4 Program Plan are necessary. Revisions required as a result of the iterative process or through evaluation of program effectiveness will be noted during the annual reporting process and appropriate updates will be made to the MS4 Program Plan. Internal documents, policies, and SOPs referenced in the Program Plan are intended to provide guidance and UVA reserves the right to change these documents at any time and in any manner. The MS4 General Permit requires these documents to be in place and the presence of the documents, not the details of their content, are the enforceable requirement of the permit. Revisions to the MS4 Program Plan or referenced documents will be made within 60 days upon discovery of the need for a change unless otherwise specified in the permit language. All BMPs and strategies are being implemented with consideration for the Chesapeake Bay and Local TMDLs and to support developing action plans to address such TMDLs in accordance with MS4 regulatory requirements. Unless otherwise stated, no monitoring data is collected for the MS4 program. Any documents noted as available upon request may be requested by emailing storm-water@virginia.edu.				

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Minimum Control Measure No. 4: Construction Site Stormwater Runoff Control

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
4.a. The permittee shall utilize its legal authority, such as ordinances, permits, orders, specific contract language, and interjurisdictional agreements, to address discharges entering the MS4 from regulated construction site stormwater runoff. The permittee shall control construction site stormwater runoff as follows: *only requirements pertaining to state agencies are listed below					
4.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;	As a state agency of higher education, UVA is legally required to follow the DEQ-approved Annual Standards and Specifications (AS&S) for Stormwater Management (SWM) and Erosion and Sediment Control (E&SC) for all regulated land disturbing activities undertaken on UVA property, either by its internal workforce or contracted to external entities. DEQ-approved AS&S include a description of the legal authorities utilized to ensure compliance with SWM and E&SC regulations, personnel certification requirements, plan review and permitting requirements, inspection schedule, inspection and enforcement procedures (including all associated documents utilized during inspections), and reporting and recordkeeping requirements. The University Building Official will not issue a building permit for a project without documented approval of E&SC and SWM Plans, if applicable. E&SC plans must be approved by a certified plan reviewer prior to the commencement of land disturbing activities. Currently UVA has an MOU with the Thomas Jefferson Soil and Water Conservation District (TJSWCD) to conduct plan review, but UVA also retains authority and has staff certified to perform the reviews.	Number of inspections conducted annually.	The latest UVA AS&S for SWM and E&SC and associated approval letter from DEQ is available on the FM website at: https://pollutionprevention.virginia.edu/construction/land-disturbing-activities/ UVA's MOU with the TJSWCD for plan review services is available upon request.	Existing, Ongoing	ER, FM, OUBO
4.a.(3) Annual Report Update: All land disturbing projects that occurred during the reporting period were conducted in accordance with the DEQ-approved AS&S. As part of UVA's AS&S program, UVA submits semi-annual land disturbance reports to DEQ which document new plan approvals for regulated land disturbing activities. UVA conducted 448 E&SC inspections during the reporting period. No enforcement actions were required. UVA hires the contractors and works with them directly to mitigate issues quickly so that they don't rise to the level of requiring enforcement.					

Minimum Control Measure No. 4: Construction Site Stormwater Runoff Control

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
4.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.					
(there are no sub sections to this requirement)	Land disturbances over 1 acre must obtain a General VPDES Permit for Discharges of Stormwater from Construction Activities, which requires preparation of a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP requires the site contractors to identify and implement appropriate controls to prevent nonstormwater discharges. For sites that do not have SWPPPs, UVA dual SWM and E&SC inspectors inspect sites for compliance with SWPPP principles and include issues of non-compliance in routine E&SC inspection reports of the site. Beginning in January 2019, UVA's SOPs have been shared with contractors during pre-construction meetings.	Number of inspections conducted annually.	The latest UVA AS&S for SWM and E&SC and associated approval letter from DEQ is available on the UVA website at: https://pollutionprevention.virginia.edu/construction/land-disturbing-activities/ The latest UVA SOPs are available on the UVA website at: https://pollutionprevention.virginia.edu/soppp/	Existing, Ongoing	ER, FM
4.b. Annual Report Update: UVA conducted 35 SWPPP specific inspections during the reporting period. Several of the inspections were modified due to the COVID pandemic. UVA SOPs are discussed with contractors during pre-construction meetings. Nonstormwater discharges are also looked for during the E&SC inspections described in 4.a.3.					
Additional Comments on Construction Site Stormwater Runoff Control	The MS4 Program Plan is a planning document to aid UVA staff in management of UVA's MS4 program. Revisions to the anticipated BMPs described in this MS4 Program Plan are expected throughout the life of this permit as part of the iterative process to reduce pollutant loading and protect water quality to the maximum extent practical. Each MCM will be reviewed and evaluated annually for effectiveness to determine whether or not changes to the MS4 Program Plan are necessary. Revisions required as a result of the iterative process or through evaluation of program effectiveness will be noted during the annual reporting process and appropriate updates will be made to the MS4 Program Plan. Internal documents, policies, and SOPs referenced in the Program Plan are intended to provide guidance and UVA reserves the right to change these documents at any time and in any manner. The MS4 General Permit requires these documents to be in place and the presence of the documents, not the details of their content, are the enforceable requirement of the permit. Revisions to the MS4 Program Plan or referenced documents will be made within 60 days upon discovery of the need for a change unless otherwise specified in the permit language. All BMPs and strategies are being implemented with consideration for the Chesapeake Bay and Local TMDLs and to support developing action plans to address such TMDLs in accordance with MS4 regulatory requirements. Unless otherwise stated, no monitoring data is collected for the MS4 program. Any documents noted as available upon request may be requested by emailing storm-water@virginia.edu.				

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Minimum Control Measure No. 5: Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
5.a. The permittee shall address post construction stormwater runoff that enters the MS4 from the following land disturbing activities by implementing a post-construction stormwater runoff management program. *only requirements pertaining to state agencies are listed below					
5.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 Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and VSMP Regulations (9VAC25-870), the permittee shall implement the most recent department approved standards and specifications and develop an inspection and maintenance program in accordance with Part I E 5 b;	As a state agency of higher education, UVA is legally required to follow the DEQ-approved Annual Standards and Specifications (AS&S) for Stormwater Management (SWM) and Erosion and Sediment Control (E&SC) for all regulated land disturbing activities undertaken on UVA property. DEQ is the program authority for UVA AS&S. The AS&S include a description of the legal authorities utilized to ensure compliance with SWM and E&SC regulations, personnel certification requirements, plan review and permitting requirements, inspection schedule, inspection and enforcement procedures (including all associated documents utilized during inspections), and reporting and recordkeeping requirements. The University Building Official will not issue a building permit for a project without documented approval of SWM Plans, if applicable. Currently, UVA has three staff members certified in plan review. UVA currently has four staff members with dual inspector certifications and one with individual E&SC and SWM inspection certifications.	Number of projects reviewed annually to ensure stormwater runoff from UVA construction sites is managed appropriately for each site.	The latest UVA AS&S for SWM and E&SC and associated approval letter from DEQ is available on the UVA website at: https://pollutionprevention.virginia.edu/construction/land-disturbing-activities/	Existing, Ongoing	ER, FM, OUBO
5.a.(3) Annual Report Update: UVA issued approvals for 10 projects during the reporting period. TJSWCD completed two reviews and UVA completed eight internally. UVA is involved in all steps of the approval process and sends the approval to the construction project manager and building official's office directly.					
5.b. The permittee shall implement an inspection and maintenance program for those stormwater management facilities owned or operated by the permittee that discharges to the MS4 as follows:					

Minimum Control Measure No. 5: Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
5.b(1) 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;	UVA owns and maintains all SWM facilities on its property within the MS4 with the exception of BMPs located on UVA property that is on a long-term lease to a local governmental agency. Each UVA facility has its own written inspection and maintenance procedures. Maintenance of the entire property on long term lease is the responsibility of the leasee.	BMPs are thoroughly inspected routinely to ensure proper function. New BMP inspection and maintenance procedures are created as new BMPs are added to UVA property.	UVA has a written SOP for BMP Inspection and maintenance as well as forms used to document the inspections. The inspection forms have been incorporated into UVA's maintenance tracking system, AiM, a database which allows the inspections to be recorded and stored electronically. Individual inspection checklists for each facility are maintained by ER or FM and available upon request.	Existing, Ongoing	ER, FM
5.b.(1) Annual Report Update: UVA utilizes AiM to document the timely completion of BMP inspections. This database is being utilized in addition to utilizing paper inspection records, which are still preferred by some staff, to ensure that each BMP is receiving appropriate attention. Results of inspections recorded on paper are uploaded into AiM.					
5.b.(2) - The permittee shall inspect stormwater management facilities owned or operated by the permittee no less than once per year.	All facilities are inspected at least annually, but some are visited more frequently for a quick inspection and routine maintenance, such as trash and debris removal.	Number of inspections completed. Routine maintenance, such as mowing or trash removal, is not tracked.	Inspection and maintenance procedures described in 5.b(1).	Existing, Ongoing	ER, FM
5.b.(2) Annual Report Update: Approximately 138 BMP inspections were completed by UVA FM and ER staff during the reporting period.					
5.b.(3) - 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	ER or FM staff receive and review all BMP inspection and maintenance written reports. ER or FM staff make arrangements for BMP maintenance in the event maintenance is more extensive than the inspection staff were able to take care of on their own.	Number of maintenance items reported. Not all maintenance items require immediate attention, but are tracked to observe patterns.	Inspection and maintenance procedures described in 5.b(1).	Existing, Ongoing	ER, FM
5.b.(3) Annual Report Update: UVA has a spreadsheet to track maintenance items noted during BMP inspections. Appropriate corrective action is taken when needed to ensure adequate BMP function.					
5.c. - This permit condition applies to Cities, Counties, or Towns. As a state agency, this condition does not apply to UVA and thus is not included.					
5.d. The permittee shall maintain an electronic database or spreadsheet of all known permittee owned or permittee-operated and privately owned stormwater management facilities that discharge into the MS4. The database shall also include all BMPs implemented by the permittee to meet the Chesapeake Bay TMDL load reduction as required in Part II A. A database shall include the following information as applicable:					

Minimum Control Measure No. 5: Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
5.d.(1)-(9) The stormwater management facility or BMP type; The stormwater management facility or BMPs location as latitude and longitude; The acres treated by the stormwater management facility or BMP, including total acres, pervious acres, and impervious acres; The date the facility was brought online (MM/YYYY). If the date brought online is not known, the permittee shall use June 30, 2005; The 6th Order Hydrologic Unit Code in which the stormwater management facility is located; Whether the stormwater management facility or BMP is owned or operated by the permittee or privately owned; Whether or not the stormwater management facility or BMP is part of the permittee's Chesapeake Bay TMDL action plan required in Part II A or local TMDL action plan required in Part II B, or both; If the stormwater management facility or BMP is privately owned, whether a maintenance agreement exists; and The date of the permittee's most recent inspection of the stormwater management facility or BMP.	UVA maintains a stormwater BMP database in AiM that contains all of the information required in 5.d.(1)-(9). AiM will be updated no later than 30 days after a new BMP is brought online, a BMP is implemented to meet TMDL requirements, or an existing BMP is discovered. In addition to AiM, UVA also maintains a stormwater BMP spreadsheet that includes tracking BMPs that are in the planning and construction stages.	An accurate, up-to-date BMP spreadsheet.	ER maintains a Tableau report that pulls BMP data from AiM that can be reviewed upon request by emailing storm-water at virginia.edu. Tableau is a data visualization tool that is used for easier viewing of all BMP information in one report.	Existing, Ongoing	ER, FM
5.d.(1)-(9) Annual Report Update: Installation of two new BMPs meeting the conditions described in 5.d(1)-(9) were completed during the reporting period. These BMPs were added to AiM and the associated Tableau report such that all required information was present within 30 days of the completion of construction. In most cases, ER staff are aware of the planned BMP installation or modification prior to construction commencement and are tracking BMP progress through the entire construction process.					

Minimum Control Measure No. 5: Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
5.e. The electronic database or spreadsheet shall be updated no later than 30 days after a new stormwater management facility is brought online, a new BMP is implemented to meet a TMDL load reduction as required in Part II, or discovered if it is an existing stormwater management facility.					
(there are no sub sections to this requirement)	Maintain inventory of stormwater management facilities. Continue to update existing facility inventory database and GIS map as described in 3.a.(1) and include new requirement for this permit cycle to include whether the facility or BMP is part of a TMDL action plan. New BMPs are integrated into AiM and the associated Tableau report upon completion of the project.	An accurate, up-to-date BMP database in AiM and associated Tableau report.	The BMP database and Tableau reports are maintained as described in 5.d.(1)-(9).	Existing, Ongoing	ER, FM
5.e. Annual Report Update: All new BMPs or modifications to existing BMPs are added to AiM and associated Tableau report within 30 days of being brought online.					
5.f. The permittee shall use the DEQ Construction Stormwater Database or other application as specified by the department to report each stormwater management facility installed after July 1, 2014, to address the control of post-construction runoff from land disturbing activities for which the permittee is required to obtain a General VPDES Permit for Discharges of Stormwater from Construction Activities.					
(there are no sub sections to this requirement)	When the operator for a site with a construction general permit submits a notice of termination, they are required to submit a list of BMPs that were added to the site during construction. DEQ is the program authority for UVA's AS&S and as such, DEQ enters stormwater management facility information into the database as part of the construction general permit termination process.	Stormwater management facilities are reported to DEQ as required.	None.	Ongoing	ER
5.f. Annual Report Update: DEQ serves as the Authority for UVA's AS&S program and as such is responsible for updating the DEQ Construction Stormwater Database as described in 5.f.					
5.g. No later than October 1 of each year, the permittee shall electronically report the stormwater management facilities and BMPs implemented between July 1 and June 30 of each year using the DEQ BMP Warehouse and associated reporting template for any practices not reported in accordance with Part I E 5 f including stormwater management facilities installed to control post-development stormwater runoff from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations (9VAC25-830) and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required.					
(there are no sub sections to this requirement)	ER will report stormwater management facilities and BMP installations as specified by this requirement upon installation or in conjunction with submission of UVA's annual report.	Stormwater management facilities are reported to DEQ as required.	None.	Ongoing	ER
5.g. Annual Report Update: No stormwater management facilities or BMPs meeting the conditions described in 5.g. were installed during the reporting period.					

Minimum Control Measure No. 5: Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
Additional Comments on Post-Construction Stormwater Management	The MS4 Program Plan is a planning document to aid UVA staff in management of UVA's MS4 program. Revisions to the anticipated BMPs described in this MS4 Program Plan are expected throughout the life of this permit as part of the iterative process to reduce pollutant loading and protect water quality to the maximum extent practical. Each MCM will be reviewed and evaluated annually for effectiveness to determine whether or not changes to the MS4 Program Plan are necessary. Revisions required as a result of the iterative process or through evaluation of program effectiveness will be noted during the annual reporting process and appropriate updates will be made to the MS4 Program Plan. Internal documents, policies, and SOPs referenced in the Program Plan are intended to provide guidance and UVA reserves the right to change these documents at any time and in any manner. The MS4 General Permit requires these documents to be in place and the presence of the documents, not the details of their content, are the enforceable requirement of the permit. Revisions to the MS4 Program Plan or referenced documents will be made within 60 days upon discovery of the need for a change unless otherwise specified in the permit language. All BMPs and strategies are being implemented with consideration for the Chesapeake Bay and Local TMDLs and to support developing action plans to address such TMDLs in accordance with MS4 regulatory requirements. Unless otherwise stated, no monitoring data is collected for the MS4 program. Any documents noted as available upon request may be requested by emailing storm-water@virginia.edu.				

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Minimum Control Measure No. 6: Pollution Prevention and Good Housekeeping for UVA Facility Operations

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
6.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:					
6.a.(1) - Prevent illicit discharges;	UVA has developed several SOPs to minimize the potential for or prevent pollutant discharges from activities of concern. These include, but are not limited to, SOPs on Waste Management, Vehicle and Equipment Washing, and Building Fire Sprinkler System Flushing.	Number of illicit discharges caused by UVA operations.	All SOPs are saved on the UVA website and are reviewed at least annually or whenever an operations or equipment change warrants such review. https://pollutionprevention.virginia.edu/soppp/ In addition, UVA tracks all reported and discovered illicit discharges or spills in a spreadsheet and follows up as needed to determine if activity patterns might warrant the need for a new or updated SOP.	Existing, Ongoing	ER, FM
6.a.(1) Annual Report Update: As described in 3.b and 3.c. (1) UVA had 3 illicit discharges during the reporting period.					
6.a.(2) - Ensure the proper disposal of waste materials, including landscape wastes;	UVA has developed SOPs on Waste Management, Used Oil Disposal, Used Cooking Oil Disposal, UVA Recycling Sorting Facility, and Disposal of Landscape Organic Wastes.	Same goal as stated in 6.a.(1)	Same SOP process as described in 6.a.(1)	Existing, Ongoing	ER, FM
6.a.(2) Annual Report Update: In the summer and fall of 2020, UVA modified contract language and developed several SOPs to address the proper handling of waste on construction sites. Waste handling on construction sites had resulted in several environmental incidents during the 2019-2020 permit cycle. UVA works with staff and contractors to draw attention to these issues and use contract language, SOPs, and other guidance to explain how issues can be prevented.					
6.a.(3) - Prevent the discharge of wastewater or permittee vehicle wash water or both into the MS4 without authorization under a separate VPDES permit;	UVA has developed an SOP on Vehicle and Equipment Washing as well as one on Exterior Surfaces and Building Washing.	Same goal as stated in 6.a.(1)	Same SOP process as described in 6.a.(1)	Existing, Ongoing	ER, FM
6.a.(3) Annual Report Update: During the past several reporting periods, UVA has had illicit discharges resulting from power wash water escaping containment efforts or other mis-handling of wash water. As mentioned in 6.a.(1) and (2), several SOPs were drafted or edited to describe proper handling of wastes and UVA has worked extensively to train staff and contractors on proper washing procedures. In addition, ER consults on power washing activities before they occur to try to prevent problems. No illicit discharges during the reporting period were related to washing activities.					
6.a.(4) - Require implementation of best management practices when discharging water pumped from utility construction and maintenance activities;	UVA has developed an SOP on Water Disposal from Dewatering Activities.	Same goal as stated in 6.a.(1)	Same SOP process as described in 6.a.(1)	Existing, Ongoing	ER, FM
6.a.(4) Annual Report Update: During previous reporting periods, UVA drafted several SOPs to describe proper handling of wastes, including liquid wastes, on construction sites. Waste Management Plans or compliance with waste management SOPs are also required for UVA construction projects to ensure wastes are properly managed and ensure that water pumped from dewatering activities is managed properly.					

Minimum Control Measure No. 6: Pollution Prevention and Good Housekeeping for UVA Facility Operations

Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
6.a.(5) - Minimize the pollutants in stormwater runoff from bulk storage areas (e.g., salt storage, topsoil stockpiles) through the use of best management practices;	UVA has developed an SOP on Salt/Sand and Spreader Shed Maintenance and developed a SWPPP for the FM Yard.	Same goal as stated in 6.a.(1)	Same SOP process as described in 6.a.(1)	Existing, Ongoing	ER, FM
6.a.(5) Annual Report Update: There were no illicit discharges resulting from bulk storage areas during the reporting period.					
6.a.(6) - Prevent pollutant discharge into the MS4 from leaking municipal automobiles and equipment; and	UVA has developed an SOP on Vehicle and Equipment Maintenance.	Same goal as stated in 6.a.(1)	Same SOP process as described in 6.a.(1)	Existing, Ongoing	ER, FM
6.a.(6) Annual Report Update: There were no illicit discharges resulting from vehicle and equipment maintenance activities during the reporting period.					
6.a.(7) - Ensure that the application of materials, including fertilizers and pesticides, is conducted in accordance with the manufacturer's recommendations.	Only licensed applicators are allowed to use pesticides, herbicides, and fertilizers on UVA property covered by the MS4 permit. All such chemicals are required to be stored and transported underneath a cover where it cannot be exposed to stormwater. All fertilizer and pesticide applicators are certified and their certifications are reviewed annually by UVA's certified Nutrient Management Planner.	Ensure applicators have required licenses. Number of certified pesticide, herbicide, and fertilizer users at UVA.	Nutrient management plans are updated and maintained by UVA's certified Nutrient Management Planner and are available upon request.	Existing, Ongoing	A, EHS, ER, FM
6.a.(7) Annual Report Update: UVA's certified Nutrient Management Planner aims to check the licenses of applicators annually, usually in January. As part of the MS4 Annual Report process, ER individually contacted all departments with verified applicators to ask the number of staff with licenses and all areas confirmed licenses were maintained and up-to-date.					
6.b. The written procedures established in accordance with Part I E 6 a shall be utilized as part of the employee training program at Part I E 6 m.					
(there are no sub sections to this requirement)	SWPPPs, SOPs, and any other written procedures shall be covered in the employee training program that is included in Appendix C.	Track staff training provided in compliance with this requirement.	Written training materials and staff training records. SOPs described in 6.a(1) are part of the training process for appropriate staff.	Existing, Ongoing	A, ER, FM
6.b. Annual Report Update: The SOPs are included in the employee training program and training completed is included in Appendix C.					
6.c.- Within 12 months of state permit coverage, the permittee shall identify which of the high priority facilities have a high potential of discharging pollutants. The permittee shall maintain and implement a site specific stormwater pollution prevention plan (SWPPP) for each facility identified. High priority facilities that have a high potential for discharging pollutants are those facilities that are not covered under a separate VPDES permit and which any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt or runoff:					

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Applicable Regulatory Text	BMPs or Strategies Anticipated to be Implemented	Measurable Goal	Standard Operating Procedures, Policies, or Documents Incorporated by reference to support this BMP or Strategy	Implementation Schedule	RESPONSIBLE DEPARTMENTS
6.c.(1)-(9) - Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater; Materials or residuals on the ground or in stormwater inlets from spills or leaks; Material handling equipment; 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); Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants); 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; Waste material except waste in covered, nonleaking containers (e.g., dumpsters); Application or disposal of process wastewater (unless otherwise permitted); or 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.	UVA has completed an evaluation of high priority facilities with a high potential of discharging pollutants, which is included in Appendix D. For all identified high priority facilities with a high potential to discharge, UVA has already prepared a SWPPP which is maintained internally. In addition, UVA will annually review facilities that have been identified as high priority, but do not have a high potential to discharge in order to determine if a SWPPP is needed. Facilities with SWPPPs are inspected annually. Facilities will be added or removed from the list of high priority facility with a high potential to discharge during the permit cycle as conditions warrant.	Up-to-date list of high priority facilities with a high potential of discharging pollutants, which require SWPPPs.	The list of high priority facilities with a high potential to discharge pollutants along with any SWPPPs developed is maintained as an appendix to the MS4 Program Plan. The SWPPPs are available online at: https://pollutionprevention.virginia.edu/soppp/	Existing, Ongoing	ER, FM
6.c.(1)-(9) Annual Report Update: UVA maintains a list of high priority facilities with a high potential to discharge pollutants along with facilities with SWPPPs in Appendix D. Inspections are conducted annually at SWPPP facilities. Items identified as needing attention during the SWPPP inspection are brought to the attention of management for that facility. During this reporting year, items identified were minor and did not require updates to the SWPPPs. However, in winter 2021-2022, all SWPPPs were updated to consolidate repetative language, improve consistency with regulatory language, remove training sign-in sheets due to virtual training, and improve consistency of language and formatting between the SWPPPs.					
6.d - Each SWPPP as required in Part I E 6 c shall include the following:					

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6.d.(1)-(8) - A site description that includes a site map identifying all outfalls, direction of stormwater flows, existing source controls, and receiving water bodies; A description and checklist of the potential pollutants and pollutant sources; A description of all potential nonstormwater discharges; Written procedures designed to reduce and prevent pollutant discharge; A description of the applicable training as required in Part I E 6 m; Procedures to conduct an annual comprehensive site compliance evaluation; 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 A log of each unauthorized discharge, release, or spill incident reported in accordance with Part III G including the following information: (a) Date of incident; (b) Material discharged, released, or spilled; and (c) Estimated quantity discharged, released or spilled.	UVA has developed a SWPPP template which contains the information required in 6.d.(1)-(8). Any subsequent SWPPPs which need to be developed will be developed using this template.	SWPPP template and SWPPPs contain all permit-required information.	The SWPPP template is available upon request. The SWPPPs are available online at: https://pollutionprevention.virginia.edu/soppp/	Existing, Ongoing	ER, FM
6.d.(1)-(8) Annual Report Update: No new SWPPPs were developed during the reporting period. UVA continues to maintain a SWPPP template and the template will be used to develop any future, required SWPPPs.					
6.e. - 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 c. 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 d no later than December 31 of that same year.					
(there are no sub sections to this requirement)	UVA will annually review high priority facilities owned by UVA for which a SWPPP has not been developed to determine if the facility has a high potential to discharge pollutants. A SWPPP will be developed by December 31 of that same year for any such facility if the need for a SWPPP is determined.	Facilities requiring SWPPPs are identified in a timely manner.	The list of high priority facilities with a high potential to discharge pollutants, including whether or not a SWPPP has been developed, is maintained as an appendix to the MS4 Program Plan.	Existing, Ongoing	ER, FM
6.e. Annual Report Update: High-priority facilities with a high potential to discharge pollutants are reviewed annually to determine if a SWPPP is needed. No new SWPPPs were added during the reporting cycle. The list of high priority facilities and SWPPPs is available in Appendix D.					
6.f. - 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 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.					

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(there are no sub sections to this requirement)	UVA will review site specific SWPPPs within 30 days of any spills, releases, or major changes to site operations.	Updated SWPPPs.	SWPPPs are available online at https://pollutionprevention.virginia.edu/soppp/	Existing, Ongoing	ER, FM
6.f. Annual Report Update: No unauthorized discharge, releases, or significant spills occurred at any facilities with SWPPPs during the reporting cycle.					
6.g. - 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 m. The SWPPP and associated documents may be maintained as a hard copy or electronically as long as the documents are available to employees at the applicable site.					
(there are no sub sections to this requirement)	All UVA SWPPPs are stored electronically are available to employees on site. SWPPPs and associated SOPs are used as part of staff training.	Electronically available SWPPPs. Training materials containing SWPPP related information.	Training materials are stored on FM's internal server and are available upon request. SWPPPs and SOPs are available online at https://pollutionprevention.virginia.edu/soppp/	Existing, Ongoing	ER, FM
6.g. Annual Report Update: Currently all facilities with SWPPPs are operated by FM. All SWPPPs are available on the FM internal server and the Environmental Resources website: https://pollutionprevention.virginia.edu/soppp/					
6.h. 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, the permittee may remove the facility from the list of high-priority facilities with a high potential to discharge pollutants.					
(there are no sub sections to this requirement)	The list of high priority facilities with a high potential to discharge pollutants is available in Appendix D. Any facilities evaluated for or removed form the list will be documented with the rationale for their removal. Facilities are evaluated at least annually and may be added back to the list if site conditions warrant.	Up-to-date list of high priority facilities with a high potential to discharge pollutants.	The list of high priority facilities with a high potential to discharge pollutants is maintained as an appendix to the MS4 Program Plan.	Existing, Ongoing	ER, FM
6.h. Annual Report Update: No facilities were removed from the high-priority facilities with a high potential to discharge pollutants list during the reporting period.					
6.i. The permittee shall maintain and implement turf and landscape nutrient management plans that have been developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia on all lands owned or operated by the permittee where nutrients are applied to a contiguous area greater than one acre. If nutrients are being applied to achieve final stabilization of a land disturbance project, application shall follow the manufacturer's recommendations.					
(there are no sub sections to this requirement)	UVA is a state agency and follows the requirements for turf and landscape nutrient management plans specified in 6.j, which regulate nitrogen application rates on lands owned by UVA.	Track acres of UVA lands upon which Nutrient Management Plans have been implemented.	Nutrient management plans are updated and maintained by UVA's certified Nutrient Management Planner and are available upon request.	Existing, Ongoing	A, EHS, ER, FM
6.i. Annual Report Update: Currently 198.8 acres are covered under Nutrient Management Plans at UVA.					
6.j. 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.					

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(there are no sub sections to this requirement)	UVA has implemented the Nutrient Management Plans to moderate the use of fertilizer on all lawn and landscaped areas on state-owned lands. A staff member at UVA's Office of Environmental Health and Safety is a certified Nutrient Management Planner and ensures the Nutrient Management Plans are accurate and up-to-date. UVA currently has the following Nutrient Management Plans: UVA Grounds - 155.8 acres, expires 6/10/25; Athletics -16.5 acres, expires 11/15/2024; and Intramural-Recreational Sports -26.5 acres, expires 1/1/2025. These plans cover a total of 198.8 acres and all plans are stored electronically on UVA servers.	Same goal as stated in 6.i	Same documents as referenced in 6.i	Existing, Ongoing	A, EHS, ER, FM
6.j. Annual Report Update: UVA continues to follow its Nutrient Management Plans to moderate fertilizer usage.					
6.k. The permittee 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.					
(there are no sub sections to this requirement)	UVA's Nutrient Management Plans prohibit the usage of nutrients on impervious surfaces including sidewalks, streets, and driveways.	No deicers containing N or P are used at UVA.	Nutrient management plans are updated and maintained by UVA's certified Nutrient Management Planner and are available upon request.	Existing, Ongoing	A, EHS, ER, FM
6.k. Annual Report Update: UVA Nutrient Management Plans continue to prohibit the application of nutrients on impervious surfaces including sidewalks, streets, and driveways.					
6.l. The permittee shall require through the use of contract language, training, standard operating procedures, or other measures within the permittee's legal authority that contractors employed by the permittee and engaging in activities with the potential to discharge pollutants use appropriate control measures to minimize the discharge of pollutants to the MS4.					
(there are no sub sections to this requirement)	For construction sites over one acre, contractors must adhere to their SWPPP, which is reviewed regularly by UVA inspectors. Contractors are expected to adhere to UVA's SOPs while doing work on UVA property and contracts can be terminated for failure to comply. References to SOPs are also included in Division 1 Guidelines, which includes language about governing authority. UVA has also added specific language into contract vendor requirements to emphasize this requirement. In addition, FM and/or ER staff aims to talk to contractor representatives during the Safety Summit organized by UVA Occupational Health and Safety staff.	Contractors follow best management practices established by and followed by UVA staff. Document ways contractors are engaged in annual report.	Construction site SWPPPs are maintained on each construction site. SOPs are maintained on the FM website. UVA Division 1 Guidelines are available on the UVA website.	Existing, Ongoing	ER, FM

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6.l. Annual Report Update: UVA has modified procurement guidelines to include more specific expectations regarding contractor compliance with regulations. Where previous language indicated the contractors were expected to follow state guidelines, the new language includes specific expectations related to waste management in order to prevent illicit discharges. The Division 1 Guidelines were also updated with more specific language and expectations. UVA has developed SOPs, toolbox training information, and Waste Management Plan templates to clarify expectations for proper waste management from contractors working on construction sites. Waste Management Plans are required for large construction sites and those that generate significant amount of waste. UVA continues to meet with staff and contractors to explain and provide reminders of these new expectations. The Safety Summit was not held during this reporting period due to COVID-19.					
6.m. The permittee shall develop a training plan in writing for applicable staff that ensures the following:					
6.m.(1) - Field personnel receive training in the recognition and reporting of illicit discharges no less than once per 24 months;	UVA updates and maintains a training plan as needed to provide applicable staff with necessary training on IDDE, good housekeeping, pollution prevention, spill prevention, environmental awareness, SOPs and other required training. Training is provided to appropriate staff at least once every 24 months and is reviewed for appropriateness.	Track training program, dates, and individuals trained. Update training plan as needed to ensure appropriate employees are adequately trained.	The training program is maintained as an appendix to the MS4 Program Plan. Training records are saved on a UVA secure server and are available on request. Some planned training efforts may be modified due to COVID-19 restrictions on in-person gatherings issued by the Governor of Virginia and the UVA President. Any such modifications will be noted in the appropriate annual report.	Existing, Ongoing	ER, FM
6.m.(1) Annual Report Update: The training plan and list of training completed during the reporting cycle is available in Appendix C.					
6.m.(2) - 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;	Same strategy as described in 6.m.(1).	Same goal as stated in 6.m.(1)	Same documentation as described in 6.m.(1)	Existing, Ongoing	ER, FM
6.m.(2) Annual Report Update: The training plan and list of training completed during the reporting cycle is available in Appendix C.					
6.m.(3) - Employees working in and around maintenance, public works, or recreational facilities receive training in good housekeeping and pollution prevention practices associated with those facilities no less than once per 24 months;	Professional and administrative staff working in and around such facilities that do not receive training under 6.m.(1)-(2) will receive training on who to contact when concerns about good housekeeping or pollution prevention are observed.	Same goal as stated in 6.m.(1)	Same documentation as described in 6.m.(1)	Existing, Ongoing	ER, FM
6.m.(3) Annual Report Update: The training plan and list of training completed during the reporting cycle is available in Appendix C.					

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6.m.(4) - 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;	Since UVA is a state agency, all applicators are required to be certified through VDACS and turn in their application records to them. Applicators are required to keep certification records and receive continuing education credit as needed.	Only certified pesticide and herbicide applicators are used on UVA property.	UVA's Certified Nutrient Management planner verifies applicator licenses and that applicators are maintaining required records.	Existing, Ongoing	ER, FM
6.m.(4) Annual Report Update: UVA currently employs 20 pesticide and 9 fertilizer applicators certified through the VDACS certification program.					
6.m.(5) - Employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations;	UVA has two employees certified as dual inspectors, two employees certified as dual combined administrators, and one employee certified as a dual plan reviewer through DEQ's program. One employee is trained as an E&SC Inspector and SWM Inspector. UVA requires a copy of the Responsible Land Disturber certification from at least one responsible individual from each regulated land disturbing project before the site breaks ground.	Up-to-date staff working on E&SC and SWM projects. Certification renewals are maintained at the required intervals.	Copies of certification records are maintained on a UVA secure server and are available upon request.	Existing, Ongoing	ER, OUBO
6.m.(5) Annual Report Update: All plan reviews and inspections were completed by UVA staff with appropriate certifications.					
6.m.(6) - Employees and contractors implementing the stormwater program obtain the appropriate certifications as required under the Virginia Stormwater Management Act and its attendant regulations; and	Same strategy as described in 6.m.(5)	Same goal as stated in 6.m.(5)	Same documentation as described in 6.m.(5)	Existing, Ongoing	ER, OUBO
6.m.(6) Annual Report Update: All plan reviews and inspections were completed by UVA staff with appropriate certifications.					
6.m.(7) - Employees whose duties include emergency response have been trained in spill response. Training of emergency responders such as firefighters and law-enforcement officers on the handling of spill releases as part of a larger emergency response training shall satisfy this training requirement and be documented in the training plan.	UVA maintains an in-house police force who are trained in emergency response. The police biannually review and sign UVA's Hazardous Material Response policy, which describes how they are expected to handle spills. In addition, EHS maintains staff who are 40-hour HAZWOPER trained in spill response. HAZWOPER training requires annual certification.	Track individuals trained.	Training records are maintained by the PD and EHS and are available upon request.	Existing, Ongoing	EHS, ER, FM, PD
6.m.(7) Annual Report Update: The training plan and list of training completed during the reporting cycle is available in Appendix C. UVA developed an online training for all FM staff who work in and around the FM Yard. This training was mandatory for appropriate employees and pushed out via the UVA human resources management program. The training is also available on the ER website: https://pollutionprevention.virginia.edu/soppp/					
6.n. - 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:					

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6.n.(1)-(3) - The date of the training event; The number of employees attending the training event; and The objective of the training event.	UVA ER and FM retains copies of FM training records, including the number of employees, the date, and the type of training for three years except for training provided to the PD and EHS. The PD and EHS maintain their own training records. UVA's training plan can be found in Appendix C. Some training plans may be modified due to COVID-19 restrictions on in-person gatherings issued by the Governor of Virginia and the UVA President	Adequately and appropriately trained staff.	Most training records are stored on a UVA secure network. EHS and Police training records are maintained by those departments and ER will coordinate with them to receive the training records at the scheduled intervals. Records are available upon request.	Existing, Ongoing	ER, FM
6.n.(1)-(3) Annual Report Update: The training plan and training completed during the reporting cycle is available in Appendix C. Specific training records are available upon request.					
6.o. - 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 shall remain responsible for ensuring compliance with the training requirements.					
(there are no sub sections to this requirement)	UVA is not currently planning to fulfill training requirements through regional training programs, but will update the MS4 Program Plan accordingly if the training plans change.	Not applicable	Not applicable	NA	ER, FM
6.o. Annual Report Update: There were no training requirements fulfilled through a regional training program during the reporting period.					
Additional Comments on Pollution Prevention and Good Housekeeping	The MS4 Program Plan is a planning document to aid UVA staff in management of UVA's MS4 program. Revisions to the anticipated BMPs described in this MS4 Program Plan are expected throughout the life of this permit as part of the iterative process to reduce pollutant loading and protect water quality to the maximum extent practical. Each MCM will be reviewed and evaluated annually for effectiveness to determine whether or not changes to the MS4 Program Plan are necessary. Revisions required as a result of the iterative process or through evaluation of program effectiveness will be noted during the annual reporting process and appropriate updates will be made to the MS4 Program Plan. Internal documents, policies, and SOPs referenced in the Program Plan are intended to provide guidance and UVA reserves the right to change these documents at any time and in any manner. The MS4 General Permit requires these documents to be in place and the presence of the documents, not the details of their content, are the enforceable requirement of the permit. Revisions to the MS4 Program Plan or referenced documents will be made within 60 days upon discovery of the need for a change unless otherwise specified in the permit language. All BMPs and strategies are being implemented with consideration for the Chesapeake Bay and Local TMDLs and to support developing action plans to address such TMDLs in accordance with MS4 regulatory requirements. Unless otherwise stated, no monitoring data is collected for the MS4 program. Any documents noted as available upon request may be requested by emailing storm-water@virginia.edu.				

A - University Athletics Department
EHS - UVA Office of Environmental Health and Safety
ER - UVA Environmental Resources
FM - UVA Facilities Management
OUBO - UVA Office of the University Building Official
PD - UVA Police Department

Appendix A
Stormwater Public Education, Outreach, Involvement and Participation Events

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
7/1/2021	Plastics Reduction Email	UVA	All UVA Academic Faculty, Staff, and Students	All staff email sent on Academic side to explain UVA's efforts in plastic waste reduction and pollution prevention relating to EO77. Email sent by the EVPCOO. Similar messaging was distributed on the Medical Center Side.	✓	
7/9/2021	Plastics Reduction Article	UVA	UVA Students, Faculty, Staff, and Alumni	UVA Today Article explaining UVA's efforts in plastic waste reduction and pollution prevention relating to EO77. https://news.virginia.edu/content/uva-reduces-single-use-plastics-grounds?utm_source=DailyReport&utm_medium=email&utm_campaign=news	✓	
7/16/2021	FM Occupational Programs Newsletter	UVA	UVA Facilities Management Staff	Reminder about good houskeeping and pollution prevention in weekly occupational programs/safety email	✓	
7/23/2021	Plastics Reduction Email	UVA	EVP-COO area staff	A monthly newsletter sent to all staff who report up through the EVP-COO (including FM) included reminders to explain UVA's efforts in plastic waste reduction and pollution prevention relating to EO77.	✓	
7/30/2021	FM Occupational Programs Newsletter	UVA	UVA Facilities Management Staff	Reminder about good houskeeping and pollution prevention (waste disposal, chemical storage) on construction sites in weekly occupational programs/safety email	✓	
8/30/2021	UVA Sustainability Newsletter	UVA	UVA Students, Faculty, Staff, and Alumni	Article in sustainability newsletter about EO77 and plastics pollution reduction efforts related to EO77. https://mailchi.mp/virginia/uva-sustainability-newsletter-march172021-2099884?e=b5366ced1d	✓	
9/14/2021	Dell Tour	UVA	UVA Students and Faculty	Dawson Garrod led a tour of the Dell, describing the project itself and how it correlates to stormwater management goals and improves the ecosystem and watershed. CE4210 - 31 students, 1 professor participated	✓	
9/15/2021	Promotion of Corner Clean Up and Waste Minimization	UVA	UVA Students, Faculty, Staff, and Alumni	UVA Office for Sustainability Newsletter promoting the Corner Clean Up, composting opportunities, and waste reduction efforts. Facebook post also included information on the Corner Clean Up.	✓	
9/24/2021	Rivanna River Basin Commission Conference	RSEP	Charlottesville Community	This year's conference organized by the Thomas Jefferson Planning District Commission was held online and the program was kept quite short. Presentation topics included: the Rivanna River Rural Corridor Plan Update tools available for local government officials to understand water resource issues, and Chesapeake Bay Watershed Implementation Plan progress.	✓	

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
9/25/2021	RCA Rivanna River Round-Up Sponsorship	RSEP	Charlottesville Community	RSEP provided sponsorship funds to Rivanna Conservation Alliance to help provide supplies for City wide river clean up events. RSEP "love your watershed" logo was included on t-shirts and other promotional items for the event. 145 members of the community participated in stream cleanups throughout the area. Volunteers pulled 153 bags of trash and 72 tires from 17 different sites along local trails, streams and rivers. Not including the tires, the trash alone weighed over 1.5 tons. 404 hours of work. https://www.cbs19news.com/clip/15258974/rivanna-river-roundup%C2%A0	✓	✓
9/25/2021	RCA Rivanna River Round-up: Stream clean up event	UVA & RSEP	UVA students, Charlottesville community members	Six CWWG members participated in a city-wide clean up effort led by RCA. Their group was assigned to a reach of Pollock's Branch, and collected trash and recycling from the stream.		✓
9/26/2021	Corner Clean Up	UVA	UVA Students	65 UVA students participated in a trash clean up event on the UVA corner sponsored by the Office for Sustainability. Bodos, gloves, pickers, and bags provided.		✓
9/29/2021	UVA Sustainability Newsletter	UVA	UVA Students, Faculty, Staff, and Alumni	UVA Sustainability newsletter focused on recruitement for UVA Green game, which encourages increased recycling and composting from the Homecoming football game. Student voluteers help sort waste and educate others on waste reduction efforts. Also promotion of an event to make wall art using recycled materials and promotion regarding the increased amount of compost bins around grounds.	✓	
10/5/2021	Recycled Wall Art	UVA	UVA Students and Staff	UVA Sustainability partnered with local business "The Scrappy Elephant" to host a make-your-own wall art event using recycling materials.	✓	✓
10/21/2022	Hoos Littering Fundraiser	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. Fundraiser held at Engineering Buildings to raise money for supplies, such as trash bags and gloves, for future clean up events.	✓	
10/23/2021	Going Green on Game Day	UVA	UVA Football Game Attendees	UVA students engaged football game tailgaters and attendees on efforts to increase waste diversion, including composting and recycling. Educational tables about recycling and sustainability were set up throughout the concourse. Activities included asking fans to indicate whether items should go to recycling, compost, or landfill along with information about EO-77.	✓	✓
10/24/2021	Keep Virginia Beautiful Clean up event	UVA	UVA Students	Five CWWG members participated in the state-wide, month-long "Virginia is for Lovers, not Litter" campaign, sponsored by Keep Virginia Beautiful and VDOT. Members removed six bags of trash from in and around the tributary to Meadow Creek that runs along Lambeth Field Residences and Carrs Hill.		✓

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
10/24/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 5 students collected 6 bags of trash at Mad Bowl.		✓
10/31/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 6 students collected 10 bags of trash at Mad Bowl and JPA.		✓
11/2/2021	Brandon Ave Green Street Tour	UVA	UVA Students and Faculty	Dewberry led a tour of the Brandon Ave bioretention median, describing the stormwater management goals and how it serves the overall redevelopment zone. CE 3030 Land Development Engineering (8 students and 1 professor)	✓	
11/7/2021	Corner Clean Up	UVA	UVA Students	Corner Clean-up event on Sunday, November 7 at 11:30am to pick up trash and litter on the Corner. Included a discussion about UVA's waste minimization goal, climate action, and the importance of properly disposing of your waste. Bodos, gloves, pickers, and bags provided. Approximately 35 students participated.	✓	✓
11/14/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 4 students collected 6 bags of trash at Mad Bowl.		✓
11/21/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 3 students collected 5 bags of trash at Mad Bowl.		✓
11/23/2021	Rake-a-Thon	UVA	UVA Students, Faculty, and Staff	Event co-sponsored with Habitat for Humanity to provide free raking to low income areas of the community, which helps keep leaves out of storm drains. Of the 710 participants, 525 were from UVA.		✓
11/19 and 11/24 2021	Cease the Grease Social Media Posts	RSEP	Charlottesville Community, UVA Students	Social media posts from RSEP members. "Enjoy the Feast! Can the Grease. Don't invite a FOG Clog to your home this Thanksgiving. When Fats, Oils and Grease (FOG) are washed down the drain, it can cause blockages in your home and neighborhood sewer pipes. This results in messy and costly overflows. It's bad for homes, the environment, and public health. Learn more on how to properly dispose of FOG."	✓	
12/1/2021	Leave It or Rake It Social Media Posts	RSEP	Charlottesville Community	Social media posts from RSEP members. "Leave it or rake it, but don't blow it! Yard debris is a stormwater pollutant and possible safety hazard. Leaves, grass, and other yard debris are a significant source of stormwater pollution. When yard debris ends up in the streets, sidewalks, and storm drains, it will eventually make its way to our creeks and lakes. It can also pose a safety hazard to people using streets and sidewalks and possibly clog the stormdrains." The posted graphic includes a list of Dos and Don'ts for managing leaf litter, grass, and yard debris.	✓	

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
12/3/2021	RainWorks Stormwater Stencils	RSEP	Charlottesville Community	RSEP members collaborated with Albemarle County public school students to create RainWorks stencils around a school campus to promote stormwater education. Stencil designs included "Love Your Watershed", "This Way to the Bay", and "Your River Starts Here - Keep It Clean." Also shared short lesson with students about watersheds, land use changes, stormwater runoff, and water quality.	✓	✓
12/5/2021	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 8 students collected 14 bags of trash around 15th St and Grand Marc.		✓
12/12/2021	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 6 students collected 14 bags of trash around Grand Marc.		✓
12/15/2021	President Ryan Podcast	UVA	UVA Students, Faculty, Staff, and Alumni	UVA Senior Operations and State Government Relations VP, Colette Sheehy, mentioned contractors should not wash paint brushes over storm drains while a guest on President Ryan's Podcast.	✓	
Spring 2022	Introduction to Environmental Engineering CE 2100	UVA	UVA Students	By Engineering Professor Teresa Culver, focuses on society's interaction with water, air, and soil systems. Management of these major environmental components is examined, considering health and ecological needs and technical limitations. This course may stand alone as introduction to the current environmental challenges that we face, or as the foundation for further study in the field of environmental engineering.	✓	✓
Spring 2022	Write Climate Class - 2 Credits - ETP1559	UVA	UVA Students	Sustainability Director Andrea Trimble and local artist Amanda Nelsen will work with students to use art to communicate about climate change, build community and encourage action. The Write Climate course series has provided opportunities for UVA students to move the climate conversation beyond their classroom and into the community employing art as a primary means of communication. https://www.writeclimateuva.com/	✓	✓
Spring 2022	Water Resources Engineering CE 3222	UVA	UVA Students	By Engineering Professor Larry Band, covers topics related to hydraulics and hydrology, including complicated pipes designs, pumps, open channel, rainfall, evaporation, and surface runoff applied to stormwater and bmp design. Applications include water supply, drainage, flood control, and water control, and computer modeling.	✓	✓

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
1/14/2022	Salt Awareness Campaign	RSEP	Charlottesville Community, UVA Students	Social media posts from RSEP members about salt usage during winter and how to prevent stormwater pollution resulting from excess salt usage. "Road salt is a growing problem for our rivers, lakes and streams. Yet, each winter, tons of salt are scattered on roadways and sidewalks, polluting our water and harming our aquatic wildlife. Learn about the impacts of excessive salting and how you can be smarter about winter salt!"	✓	
1/20/2022	Climate Action Together: A Roundtable Discussion About Local Implications of Climate Change on Our Community's Health, Safety, and Ecology	UVA	Charlottesville Community	Climate change is upon us in the form of increasingly extreme weather events, changing seasons, and the associated stress on community systems. Representatives from the City of Charlottesville, Albemarle County, and the University of Virginia provided an inside look into the thinking and decision-making of leaders in key systems (ecology, social services, public health, public safety) in our community. Attendees learned about specific challenges associated with extreme rainfall, heat waves, and seasonal changes from the perspectives of several public servants and about upcoming opportunities to participate in preparation for changes we expect to see. Email notifications about the event sent via UVA email lists, City resident email list, and County resident email lists.	✓	✓
2/8/2022	LYW in Newspaper Interviews	RSEP	Charlottesville Community	Mention of Love Your Watershed by RSEP member Dominique Lavorata during interview discussing House Bills proposing to add scenic river designation to miles of rivers. https://www.washingtonpost.com/local/bill-would-add-2-counties-to-james-state-scenic-river/2022/02/08/89b94fce-892c-11ec-838f-0cfdf69cce3c_story.html , https://dailyprogress.com/ap/state/bill-would-add-2-counties-to-james-state-scenic-river/article_c3441028-c589-51ff-8158-9ccd86cc3a79.html	✓	
2021-2022	Centering Equity and Resilience in Urban Stream and Watershed Restoration	UVA	Charlottesville Community	3Cavaliers funded project involving Teresa Culver (Engineering), Larry Band (Environmental Science), Bev Wilson (Architecture). This project integrates engineering, environmental, and social equity goals and perspectives to jointly and resiliently improve environmental and social equity conditions in urban regions. Meadow Creek is being used as a case study for the project and students will participate in the research efforts. https://3c.virginia.edu/projects/316	✓	✓
2/6/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 5 students collected 10 bags of trash around Mad Bowl.		✓
2/20/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 4 students collected 8 bags of trash around an unspecifed location.		✓

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
2/27/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 2 students collected 5 bags of trash around Mad Bowl.		✓
3/9/2022	UVA Sustainability Newsletter	UVA	UVA Students, Faculty, Staff, and Alumni	UVA Office for Sustainability Newsletter promoted an environmental documentary about the James River, titled "Headwaters Down". The film highlights the impacts that industrialization and dumping/littering has on the James River and stresses the importance of the river as an ecological, recreational, and drinking water resource. The film was made by three UVA Alumni and won the 2022 Virginia Environmental Film Contest.	✓	
3/9/2022	Cville Weekly Article	RSEP	Charlottesville Community	RSEP member Lisa Wittenborn was interviewed in an article about planning for the health of the Rivanna River throughout the urban area and discussed watersheds, as well as existing impairments and water quality issues including increased runoff, bacteria, and benthic impacts.	✓	
3/20/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 7 students collected 13 bags of trash around Mad Bowl.		✓
3/27/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 6 students collected 9 bags of trash around Grand Marc.		✓
3/30/2022	RainWorks Stormwater Stencils	RSEP	Charlottesville Community	RSEP members collaborated with Albemarle County public school students to create RainWorks stencils around a school campus to promote stormwater education. Stencil designs included "Love Your Watershed", "This Way to the Bay", and "Your River Starts Here - Keep It Clean." Also shared short lesson with students about watersheds, land use changes, stormwater runoff, and water quality.	✓	✓
3/30/2022	Dawson - Firehock BMP Tour	UVA	UVA Students	Tour of Stormwater BMPs across Grounds. 15 participants	✓	
3/31/2022	Redirect Downspouts Social Media Post	RSEP	Charlottesville Community	Social media posts from RSEP members about redirecting water from downspouts - "guiding water towards a vegetated area increases the amount of rain that soaks into the soil and decreases the amount that flows into storm drains."	✓	
4/9/2022	Cleanup for Kayaks	UVA	UVA Students	IM-REC and UVA Sustainability sponsored trash cleanup at Ragged Mountain Reservoir followed by a free boat ride. UVA provided all of the equipment (boats, PFDs, and cleanup gear). Promoted to engage in environmental stewardship and get a free kayaking, canoeing, or paddleboard trip on the reservoir at the end of the cleanup.		✓

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
4/10/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 4 students collected 8 bags of trash around Mad Bowl		✓
4/10/2022	Corner Clean Up	UVA	UVA Students	Clean up event to pick up trash and litter around the area of the UVA Corner. 24 participants.		✓
4/17/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 4 students collected 6 bags of trash around Mad Bowl		✓
4/22/2022	Earth Day Newsletter and social media posts	UVA	UVA Students, Faculty, Staff, and community	Earth Day newsletter and social media posts from UVA Sustainability advertising Earth Day events, including the Beta Bridge Stream Cleanup	✓	
4/22/2022	How to Save a Planet Eco-Fair	UVA	UVA Students, Faculty, Staff, and community	Hoos <3 the Planet! Celebrate Earth Day by exploring the actions that really amount to big change & finding your unique niche in the climate/sustainability movement. Students, faculty, staff, and visitors all welcome! interactive tables * UVA and community orgs * sustainable lifestyle giveaways * electric vehicle demo * la flor popsicles * cav man * zero waste * lawn games * book raffle * solar demo * ROSE pop-up * and more - featured interactive table from UVA Clean water with stormwater pollution prevention sticker and magnet give-aways and included the stormwater BMP cornhole board for visitors to play https://www.cavalierdaily.com/article/2022/04/eco-fair-celebrates-earth-day-with-advocates-for-sustainability	✓	✓
4/22/2022	Fridays for Future	UVA	Charlottesville Community	Celebrate Earth Day at Ix Art Park with a free screening of 2040, a thrifted-fashion show, sustainable vendor showcase, food, beer, & more.UVA Sustainability tabling at IX Art Park. Community event included tabling by UVA sustainability including give aways of stickers and magnets with stormwater pollution prevention messaging.	✓	✓
4/23/2022	Beta Bridge Stream Cleanup	UVA	UVA Students and Charlottesville Community	Annual stream cleanup of Beta Bridge area. 40 participants.		✓
4/24/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 3 students collected 4 bags of trash around Mad Bowl		✓

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
4/26/2022	UVA BMP Tour	UVA	23 Piedmont Master Gardener Trainees and 3 Master Gardeners	First conducted a 1-hour classroom presentation where the attendees were provided with information on stormwater management with a focus on UVA's history and on-going efforts to manage stormwater and meet or exceed all regulatory requirements. Emphasized that there is a strong educational component to stormwater management. Ultimate goal, mimic nature. Second, conducted a 2.5 hour tour of stormwater BMPs on UVA Grounds. We discussed the function of a variety of stormwater BMPs including a wet pond, bioretention, vegetated roof, and permeable pavement (asphalt and pavers).	✓	
5/1/2022	Rivanna Riverfest	UVA, RSEP	Charlottesville Community	Promotional support for and volunteering at Rivanna Riverfest, a local event to encourage people to come out, learn about, and engage with the river. https://www.rivannariver.org/rivanna-riverfest/. RSEP had an information table for RiverFest attendees to learn about how to reduce stormwater runoff on their properties (and VCAP cost-share opportunities), native plants, picking up pet waste, and more! Handed out "Love Your Watershed" stickers and magnets. Approximately 150 people interacted with the RSEP tabling staff. Estimated 500 event attendees.	✓	✓
5/1/2022	Hoos Littering Cleanup Event	UVA	UVA Students	UVA Student lead semi-weekly trash cleanups at the Corner, Mad Bowl, JPA, and other various locations on and off grounds. 5 students collected 9 bags of trash around Mad Bowl		✓
5/3/2022	Beta Bridge Stream Cleanup Results	UVA	UVA Students, Faculty, Staff, and community	Newsletter from UVA Sustainability sharing the results of the Beta Bridge cleanup with pictures of before and after as well as trash collected	✓	
5/7/2022	Piedmont Master Gardeners Native Plant Sale	RSEP	Charlottesville Community	Provided 200 "Stormwater Pollution Prevention: A Lawn and Landscape Guide" brochures with yard related tips for PMG to hand out at their event. Also provided LYW and other stormwater pollution prevention magnets and stickers.	✓	✓
5/9/2022	UVA Today Article - Maintenance of the Lawn	UVA	UVA Students, Faculty, Staff, and community	UVA Today article discussing UVA's efforts to maintanin the lawn, including discussion of minimizing nutrient runoff to protect local waterways and the Chesapeake Bay https://news.virginia.edu/content/how-uva-preps-lawn-final-exercises	✓	✓
5/21-22/2022	UVA Graduation Balloon Collection	UVA	UVA Students, Faculty, Staff, and community	UVA Sustainability collects balloons after UVA graduation to prevent them from being relased into the environment where they become pollutants. https://news.virginia.edu/content/graduation-balloons-buoy-young-patients-spirits	✓	✓

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
5/23/2022	RainWorks Stormwater Stencils	RSEP	Charlottesville Community	RSEP members collaborated with Albemarle County public school students to create RainWorks stencils around a school campus to promote stormwater education. Stencil designs included "Love Your Watershed", "This Way to the Bay", and "Your River Starts Here - Keep It Clean."	✓	✓
5/31/2022	Love Your Watershed Stencil at Burley Middle School	RSEP	Charlottesville Community	UVA Sign Shop created a stencil with the Love Your Watershed logo for use on Grounds. UVA has been loaning it out to other RSEP members, including the County and RCA, who recently had students paint the stencil on Burley property using Rain Works paint. RCA and UVA Environmental Science students lead a watershed-focused educational program for 200+ 6th graders as part of the event. Event also included sampling a virtual stream, identifying benthic macroinvertebrates, exploring an interactive watershed model, and investigating stream habitat.	✓	✓

Appendix B
Reportable Nonstormwater Discharges

Date IDDE Observed	Results of Investigation (conditions, nature of IDDE, situation when arrive on site)	Follow Up Efforts and Resolution (efforts to find IDDE source, how source was eliminated)	Describe any follow up to prevent recurrence or revisitation of site to ensure IDDE eliminated	Date investigation closed (education may be ongoing)	Written Report - yes/no and location	Reported to DEQ, City, County, EPA	Who Reported Incident to ER	Resulted in Release to MS4?	If resulted in release to MS4, reportable quantity?	Was Spill at High Priority SWPPP site?	If SWPPP site, was SWPPP modification needed?
8/11/2021	A 5-gallon bucket of white paint fell off of a contractor (United Painting Plus) truck and spilled on McCormick Road in front of Monroe Hall and entered a storm drain. Paint did not reach the next down stream storm drain.	Outdoor Utilities staff arrived on site to flush the impacted storm line and used their vac truck to pump the wash water from the next downstream storm drain. The contractor stayed for the majority of the clean up process, which lasted approximately 1.5 hours.	None	8/11/2021	Yes, on G Drive	Yes, DEQ	Chris Kern, FM Landscaping	Yes	Yes	No	N/A
8/25/2021	SSO from RWSA O-Hill WTP caused by too much discharge from their lagoon.	Line cleanup with Utilities vac truck, lime applied by RWSA	RWSA to update their operational procedures such that when they increase discharge from that line, they send someone down to observe the manhole.	8/25/2021	Yes, on G Drive	Yes, DEQ	David Hermes, via FM Landscaping	Yes	Yes, unknown amount	No	N/A
9/8/2021	Approx. 5 gallons of liquid primer was put in one of the IMMSK construction site dumpsters and when Van der Linde came to pick up the dumpsters, it started leaking out. Some of the paint got into both the storm drain along the northeast construction entrance and the storm drain along Stillfried Lane, and reached the creek behind the 911 Center. Subcontractor Capital Interiors was implicated in the incident.	Site staff used materials from their spill kits and erosion and sediment controls to contain some of the material before it reached the storm drain and used some wattles and a straw bale in the creek to restrict its migration downstream. Utilities helped create an earthen berm in the creek by the outfall to contain the area where most of the spill was caught. Utilities helped the project pump the contaminated water from the outfall location to a nearby sanitary manhole. An independent environmental cleanup contractor, Hepaco, was hired by the project to help flush the impacted storm lines and clean up the contained spill still in the driveway.	General contractor, Whiting-Turner to hold waste management training with subcontractors. ER staff conducted follow-up investigation of the stream the following morning on 9/9/2021 and observed no adverse impacts to aquatic life.	9/8/2021	Yes, on G Drive	Yes, DEQ, County	John Marshall, FM CC&R	Yes	Yes	No	N/A

Appendix C
Training Plan and Training Completed

Department	Rationale for Training	Training Type/ Objective	Frequency	Means to Achieve Training Requirement*	Date Completed	# of Staff Trained	2020-2021 Training	Date Completed	# of Staff Trained
Athletics	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	1/16-17/2019	22	A 5 minute online training program covering IDDE and spill response was pushed out to all FM, IM-Rec, John Paul Jones Arena, and Operations-related Athletics Staff between October 2020 and February 2021. This training was issued as mandatory training in UVA's human resources management program. User completion was tracked and would not allow any portion of the training to be skipped. Approximately 1,200 staff were trained. No in person training was held during the permit cycle due to COVID restrictions. The training is set up within the HR program to be pushed out to staff in the relevant departments every two years. Pandemic conditions willing, ER intends to continue providing a more tailored, job specific training to the departments listed whose operations have the highest potential to trigger a pollution response incident. This more tailored training is anticipated to be	2/10/2022	20
John Paul Jones Arena	6.1.(1) - Field Personnel	Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	12/12/2018	14		3/3/2022	9
IM-Rec Sports	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	1/16/2019	24		1/13/2022	28
Heat Plant	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	11/7/2018	24		3/16/2022	23
Recycling	6.1.(1) - Field Personnel	Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	10/26/2018	20		1/12/2022	16
Utilities	6.1.(1) - Field Personnel	SPCC Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	12/4/2018	16		2/16/2022	16
Power and Light	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	1/9/2019	13		1/18/2022	15
North Grounds Zone Maintenance	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	1/11/2019	14		2/23/2022 and 2/25/2022	15
Newcomb Zone Maintenance	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	1/22/2019	14		4/4/2022	14
West Grounds Zone Maintenance	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	2/8/2019	19		Feb-22	19

Department	Rationale for Training	Training Type/ Objective	Frequency	Means to Achieve Training Requirement*	Date Completed	# of Staff Trained	2020-2021 Training	Date Completed	# of Staff Trained
McCormick Zone Maintenance	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	1/30/2019	22	provided in the years between the online training pushed out via HR.	Mar-22	18
Central Grounds Zone Maintenance	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	2/28/2019	32		2/25/2022	34
FM HSPP Zone 1 Maintenance	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	1/15/2019	24		February and March 2022	61
FM HSPP Zone 2 Maintenance	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	2/21/2019	36		Mar-22	33
FM HSPP Zone 3 Maintenance	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	2/4/2019	19		Jan-22	22
FM HSPP Zone 4 Maintenance	6.1.(1) - Field Personnel	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	1/23 and 1/28 2019	26		12/8/2021, February 2022	27
FM Landscaping	6.1.(1)-(2) - Field Personnel, Street and Parking Lot Maintenance	Class C UST Operator, Spill Response, IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	11/29/2018	67		Mar-22	44
FM Administrative Staff	6.m.(3) - Work around maintenance facility	IDDE	Once every 24 months	Training provided by ER or appropriate designated staff	Initial training intended for spring 2020 delayed to fall 2020 due to COVID.			Not Due	Not Due
CR&R -Construction and Renovation Services	Construction project management, contractor management	IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	4/25/2019	26		1/21/2022	19

Department	Rationale for Training	Training Type/ Objective	Frequency	Means to Achieve Training Requirement*	Date Completed	# of Staff Trained	2020-2021 Training	Date Completed	# of Staff Trained
Capital Constructions and Renovations - Academic	Construction project management, contractor management	IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	10/21/2019	23		2/7/2022	27
Capital Constructions and Renovations - Health System	Construction project management, contractor management	IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	12/16/2019	16		2/21/2022	25
Capital Constructions and Renovations - Project & Construction Mgmt Svcs	Construction project management, contractor management	IDDE, SOPs	Once every 24 months	Training provided by ER or appropriate designated staff	10/19/2019	4		1/21/2022	7

*training may be provided in person, online, recorded, or via other means identified as appropriate for the material covered

Specialty Training										
FM Pesticide and Herbicide Applicators	6.m.(4) - Pesticide and herbicide applicators	VDACS Certification	As required for certification	VDACS Program Certification Requirements	Certificates maintained per VCACS requirements					
Environmental Resources	6.m.(5)-(6)-E&SC and VSMP inspectors	E&SC and SWM Combined Inspector or Administrator	As required for certification	DEQ E&SC and SWM	Certificates maintained per DEQ requirements					
UVA Police	6.m.(7) - Emergency response	IDDE	Once every 24 months	Officers provide training in-house on UVA emergency response procedures.	2018-2019, 88 Staff	11/2019 - 5/2020, 99 Staff	7/1/2020-6/30/2021 - 25 staff	7/1/2021-6/30/2022 - 99 staff		
EHS, ER, OHS	6.m.(7) - Emergency response	HAZWOPER	As required for certification	Training by a certified trainer as appropriate. May be in person or online.	3/26/2019 - 13 Staff	Spring 2020, 15 staff	Spring 2021, 14 staff	Spring 2022, 14 Staff		

Appendix D
High Priority Facility Evaluation

Location	Residuals from using, storing, or cleaning machinery or equipment	Materials or residuals from spills or leaks	Material Handling equipment	Materials could be mobilized in stormwater during loading or unloading	Materials stored outdoors	Materials contained in open or leaking drums, barrels, tanks, and similar containers	Water material except in covered, nonleaking containers	Application or disposal of process wastewater	Particulate matter from roof stacks or vents not otherwise regulated	Discharge to MS4	SWPPP required	Rationale
FM Yard	✓	✓	✓	✓	✓		✓			✓	✓	Salt storage shed, landscape storage area under the T-shed, and number of vehicles stored on site warrant SWPPP
FM Forestry Yard	✓		✓		✓							Does not discharge to MS4.
FM Fontaine Yard	✓		✓		✓							Does not discharge to MS4, not in census urbanized area.
Recycle Sort Facility			✓		✓		✓			✓	✓	Recyclable materials are waste and stored in large quantities, even if under cover.
Main Heat Plant	✓	✓							✓	✓	✓	Historic number of large spills and potential for releases to air.
Athletics Precinct	✓		✓	✓	✓					✓		Materials now largely stored under cover due to new facilities.
Scott Stadium			✓	✓						✓		Not a high priority facility. Only issues come from power washing and an SOP has been developed.
Campbell Hall					✓					✓		Not a high priority facility. New equipment and SOP developed for concrete work outside has reduced potential for discharge.
Ruffin Hall					✓					✓		Not a high priority facility. Work outside
Fontaine Composting Site												Not a high priority facility. No potential to discharge observed.

Location	Residuals from using, storing, or cleaning machinery or equipment	Materials or residuals from spills or leaks	Material Handling equipment	Materials could be mobilized in stormwater during loading or unloading	Materials stored outdoors	Materials contained in open or leaking drums, barrels, tanks, and similar containers	Water material except in covered, nonleaking containers	Application or disposal of process wastewater	Particulate matter from roof stacks or vents not otherwise regulated	Discharge to MS4	SWPPP required	Rationale
North Grounds Mechanical Plant										✓		Not a high priority facility. No potential to discharge observed.
Hospital Loading Dock and West Complex										✓		Not a high priority facility. No potential to discharge observed.
Copeley Substation					✓					✓		Not a high priority facility. No potential to discharge observed.

Appendix E
Chesapeake Bay TMDL and Local TMDL Annual Updates

2022 MS4 Annual Report – TMDL Updates

Chesapeake Bay TMDL

No new BMPs were completed within the regulated MS4 boundary during the reporting period that contributed reductions for the Chesapeake Bay TMDL. A stream restoration project is currently in the schematic design phase that will contribute reductions for all three pollutants of concern.

UVA has met the reduction requirements for both the first and second permit cycle for all three pollutants of concern. For the end of the third and final permit cycle, UVA has exceeded the reduction requirements for Total Suspended Solids, achieved 86% of the Total Phosphorous reductions and completed 53% of the Total Nitrogen reduction goals.

Rivanna TMDL – Sediment

No new BMPs were completed within the regulated MS4 boundary during the reporting period that contributed reductions for the benthic TMDL. However, a stream restoration project is in the schematic phase that will benefit sediment reductions.

Rivanna TMDL – Bacteria

UVA continued to partner with the Rivanna Conservation Alliance to facilitate the stormwater quality monitoring program which includes *E. coli* sampling from March to November and testing using the Colilert® Method from 5 locations draining the UVA Grounds. If significant *E. coli* levels are measured after dry weather sampling, a field investigation is conducted and resampling performed. When analyzing the weather surrounding the sampling dates, it was observed that spikes were seen when samples were taken immediately following a large storm event which had been preceded by prolonged periods of non-runoff producing events or dry weather. During the reporting period, there were no elevated dry weather measurements that required further investigation or testing. Despite some minor spikes, monitors did not observe any abnormalities in watercolor or odor during sampling.