



Environmental Resources

September 26, 2023

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, 2022 through June 30, 2023 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](mailto:jsw6d@virginia.edu)

Sincerely,

A handwritten signature in black ink that reads "Jessica S. Wenger".

Jessica S. Wenger  
Environmental Projects Manager

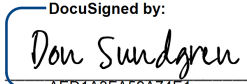
CC: Donald Sundgren, UVA Associate Vice President and Chief Facilities Officer  
Benjamin Hays, UVA University Building Official  
Kristin Carter, UVA Associate Director for Environmental Resources  
Dawson Garrod, UVA Environmental Engineer

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

DocuSigned by:  
Signature:  Date: 9/26/2023  
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**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 <a href="http://rivanna-stormwater.org">http://rivanna-stormwater.org</a> . UVA's stormwater website can be found at <a href="https://pollutionprevention.virginia.edu/stormwater-mgmt/">https://pollutionprevention.virginia.edu/stormwater-mgmt/</a> . RSEP's Outreach and Education Plan is included in on the website's Outreach and Education page: <a href="https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/">https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/</a> . 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 <a href="https://rivanna-stormwater.org/additional-resources/love-your-watershed/">https://rivanna-stormwater.org/additional-resources/love-your-watershed/</a> . RSEP's website also contains a link to a Story Map, which explains how watersheds work and ways to keep them pollution free. <a href="https://rivanna-stormwater.org/local-watersheds/storymap/">https://rivanna-stormwater.org/local-watersheds/storymap/</a>					
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
<p>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: <a href="https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/">https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/</a>. The list of outreach and education campaigns undertaken during the reporting cycle is included in Appendix A. The Outreach and Education Plan was modified in 2020 to note COVID-19 related impacts and potential impacts on future planning. RSEP has also collaborated on outreach efforts with other local groups such as the Piedmont Master Gardeners and Rivanna Conservation Alliance. Stickers with the "Love Your Watershed" logo are a popular give-away at events. <a href="https://rivanna-stormwater.org/additional-resources/love-your-watershed/">https://rivanna-stormwater.org/additional-resources/love-your-watershed/</a></p>					
<p>1.c. - The high-priority public education and outreach program, as a whole, shall:</p>					
<p>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.</p>	<p>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.</p>	<p>Number of educational efforts undertaken annually.</p>	<p>Same documentation as described in 1.a.(1)-(3).</p>	<p>Existing, Ongoing</p>	<p>ER, FM, RSEP</p>
<p>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: <a href="https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/">https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/</a>. The list of outreach and education campaigns undertaken during the reporting cycle is included in Appendix A. The Outreach and Education Plan was updated in 2020 to account for COVID-19 related impacts.</p>					
<p>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.</p>					
<p>Table 1 Strategies: Traditional written materials; Alternative materials; Signage; Media Materials; Speaking engagements; Curriculum materials; Training materials</p>	<p>RSEP's Outreach and Education Plan (available at <a href="https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/">https://pollutionprevention.virginia.edu/stormwater-mgmt/education-outreach/</a>) provides specifics on planned strategies to be used. The Plan will be updated during the permit cycle if new strategies are identified.</p>	<p>Utilize two or more strategies annually to communicate high priority stormwater issues either through RSEP or at UVA individually.</p>	<p>Same documentation as described in 1.a.(1)-(3).</p>	<p>Existing, Ongoing</p>	<p>ER, FM, RSEP</p>
<p>1.d. Annual Report Update: More than two strategies were used during the reporting cycle. The list of outreach and education campaigns undertaken during the reporting cycle is included in Appendix A.</p>					
<p>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.</p>					

**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
<b>1.e. Annual Report Update: The education and outreach activities listed in Appendix A indicate whether efforts were undertaken by RSEP or UVA.</b>					
<b>Additional Comments on Public Education and Outreach</b>	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
<b>2.a. - The permittee shall develop and implement procedures for the following:</b>					
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.	<a href="http://rivanna-stormwater.org">http://rivanna-stormwater.org</a>  <a href="https://pollutionprevention.virginia.edu/stormwater-mgmt/">https://pollutionprevention.virginia.edu/stormwater-mgmt/</a>	Existing, Ongoing	ER, FM, RSEP
2.a.(1)-(5) Annual Report Update: Both reporting websites were available during the reporting period. 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.	<a href="https://pollutionprevention.virginia.edu/stormwater-mgmt/MS4-permit/">https://pollutionprevention.virginia.edu/stormwater-mgmt/MS4-permit/</a>  <a href="https://pollutionprevention.virginia.edu/stormwater-mgmt/">https://pollutionprevention.virginia.edu/stormwater-mgmt/</a>	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: <a href="https://pollutionprevention.virginia.edu/">https://pollutionprevention.virginia.edu/</a>					

**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.					
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.					
<b>Additional Comments on Public Involvement and Participation</b>	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
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A - University Athletics Department  
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 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. 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
<p><b>3.a. The permittee shall develop and maintain an accurate MS4 map and information table as follows:</b></p>					
<p>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.</p>	<p>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.</p>	<p>Accurate, up-to-date inventory of UVA's storm sewer system, including all outfalls and points of discharge.</p>	<p>A GIS map and associated information table is stored on a secure UVA site and may be made available upon request.</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>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.</p>					

**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
<p>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.</p>	<p>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.</p>	<p>Accurate, up-to-date inventory of UVA's storm sewer system.</p>	<p>Same map and information table as described in 3.a.(1).</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p><b>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. Often future outfalls are added before construction begins, as part of the planning effort.</b></p>					
<p>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.</p>	<p>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.</p>	<p>Submittal of GIS shape file of UVA's MS4 map to DEQ by the specified deadline.</p>	<p>Same map and information table as described in 3.a.(1).</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p><b>3.a.(3) Annual Report Update: UVA's GIS map shape files were submitted to DEQ's Megan O'Gorek on June 4, 2019.</b></p>					
<p>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.</p>	<p>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.</p>	<p>Accurate, up-to-date inventory of UVA's storm sewer system, updated by the specified deadline.</p>	<p>Same map and information table as described in 3.a.(1).</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>

**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
<p>3.a.(4) Annual Report Update: No new TMDLs were approved during the reporting period. Four outfalls were removed from the annual inspection list during the reporting period. Three new outfalls were added to both the GIS map and the outfall inspection list during the reporting period.</p>					
<p>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.</p>	<p>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.</p>	<p>Neighboring MS4s are informed of physical interconnections with UVA.</p>	<p>Copies of the written notification letters are available upon request.</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>3.a.(5) Annual Report Update: No additional notifications regarding physical interconnections were required to be made during the reporting period.</p>					
<p>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.</p>					
<p>(there are no sub sections to this requirement)</p>	<p>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.</p>	<p>Number of illicit discharges each year.</p>	<p>UVA's environmental policy is available here:  <a href="https://uvapolicy.virginia.edu/policy/SEC-002">https://uvapolicy.virginia.edu/policy/SEC-002</a>                      UVA's SOPs are available here:  <a href="https://pollutionprevention.virginia.edu/soppp/">https://pollutionprevention.virginia.edu/soppp/</a></p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>3.b. Annual Report Update: UVA notified DEQ of 2 reportable nonstormwater discharges that occurred during the reporting period. The individual discharges are included in Appendix B.</p>					
<p>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:</p>					

**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
<p>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.</p>	<p>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.</p>	<p>Follow SOPs and document number of spills, SSOs, and illicit discharge investigations annually.</p>	<p>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: <a href="https://pollutionprevention.virginia.edu/sopp/">https://pollutionprevention.virginia.edu/sopp/</a></p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>3.c.(1) Annual Report Update: One SSO occurred during the reporting period, which was caused by debris clogging a line where a 10" PVC pipe connected to an 8" terra cotta line. The SSO SOP was followed during the incident and the terra cotta line was replaced with a 10" pipe to prevent future reoccurrence. UVA had one illicit discharge caused by a contractor working on UVA's behalf. Though SOPs were initially followed, a misunderstanding by the contractor led to a discharge to Meadow Creek. UVA E&amp;U staff took a more active role with the contractor throughout the remainder of the project.</p>					

**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
<p>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.</p>	<p>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.</p>	<p>Number of outfalls screened annually.</p>	<p>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.</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p><b>3.c.(2) Annual Report Update: 77 dry weather outfalls were completed during the reporting period using the outfall inspection SOP. No illicit discharges were discovered during dry weather screening.</b></p>					
<p>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.</p>	<p>UVA SOPs for illicit discharge detection and sanitary sewer overflows (SSOs) require staff to respond immediately to reports received.</p>	<p>Maintain staffing and equipment to respond to reports of illicit discharges, spills, and sanitary sewer overflows immediately upon notification.</p>	<p>Same spreadsheet as described in 3.c.(1)</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>

**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
<b>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.</b>					
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
<b>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.</b>					
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
<b>3.c.(5) Annual Report Update: There were no continuous or more frequent than a one-time discharge that occurred during the reporting period.</b>					
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
<b>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.</b>					

**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
<p><b>Additional Comments on Illicit Discharge Detection and Elimination</b></p>	<p>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.</p>				

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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
<p>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</p>					
<p>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;</p>	<p>As a state agency of higher education, UVA is legally required to follow the DEQ-approved Annual Standards and Specifications (AS&amp;S) for Stormwater Management (SWM) and Erosion and Sediment Control (E&amp;SC) for all regulated land disturbing activities undertaken on UVA property, either by its internal workforce or contracted to external entities. DEQ-approved AS&amp;S include a description of the legal authorities utilized to ensure compliance with SWM and E&amp;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&amp;SC and SWM Plans, if applicable. E&amp;SC plans must be approved by a certified plan reviewer prior to the commencement of land disturbing activities. 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.</p>	<p>Number of inspections conducted annually.</p>	<p>The latest UVA AS&amp;S for SWM and E&amp;SC and associated approval letter from DEQ is available on the FM website at:  <a href="https://pollutionprevention.virginia.edu/construction/land-disturbing-activities/">https://pollutionprevention.virginia.edu/construction/land-disturbing-activities/</a>                       UVA's MOU with the TJSWCD for plan review services is available upon request.</p>	<p>Existing, Ongoing</p>	<p>ER, FM, OUBO</p>
<p>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&amp;S. As part of UVA's AS&amp;S program, UVA submits semi-annual land disturbance reports to DEQ which document new plan approvals for regulated land disturbing activities. UVA conducted 521 E&amp;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.</p>					



**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
<p>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.</p>					
<p>(there are no sub sections to this requirement)</p>	<p>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&amp;SC inspectors inspect sites for compliance with SWPPP principles and include issues of non-compliance in routine E&amp;SC inspection reports of the site. Beginning in January 2019, UVA's SOPs have been shared with contractors during pre-construction meetings.</p>	<p>Number of inspections conducted annually.</p>	<p>The latest UVA AS&amp;S for SWM and E&amp;SC and associated approval letter from DEQ is available on the UVA website at: <a href="https://pollutionprevention.virginia.edu/construction/land-disturbing-activities/">https://pollutionprevention.virginia.edu/construction/land-disturbing-activities/</a> The latest UVA SOPs are available on the UVA website at: <a href="https://pollutionprevention.virginia.edu/soppp/">https://pollutionprevention.virginia.edu/soppp/</a></p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>4.b. Annual Report Update: UVA conducted 39 SWPPP specific inspections during the reporting period. UVA SOPs are discussed with contractors during pre-bid and pre-construction meetings. Nonstormwater discharges are also looked for during the E&amp;SC inspections described in 4.a.3.</p>					
<p><b>Additional Comments on Construction Site Stormwater Runoff Control</b></p>	<p>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 <a href="mailto:storm-water@virginia.edu">storm-water@virginia.edu</a>.</p>				

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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
<p>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</p>					
<p>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;</p>	<p>As a state agency of higher education, UVA is legally required to follow the DEQ-approved Annual Standards and Specifications (AS&amp;S) for Stormwater Management (SWM) and Erosion and Sediment Control (E&amp;SC) for all regulated land disturbing activities undertaken on UVA property. DEQ is the program authority for UVA AS&amp;S. The AS&amp;S include a description of the legal authorities utilized to ensure compliance with SWM and E&amp;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&amp;SC and SWM inspection certifications.</p>	<p>Number of projects reviewed annually to ensure stormwater runoff from UVA construction sites is managed appropriately for each site.</p>	<p>The latest UVA AS&amp;S for SWM and E&amp;SC and associated approval letter from DEQ is available on the UVA website at: <a href="https://pollutionprevention.virginia.edu/construction/land-disturbing-activities/">https://pollutionprevention.virginia.edu/construction/land-disturbing-activities/</a></p>	<p>Existing, Ongoing</p>	<p>ER, FM, OUBO</p>
<p>5.a.(3) Annual Report Update: UVA issued approvals for 7 projects during the reporting period. All reviews were completed internally by UVA staff certified in plan review.</p>					
<p>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:</p>					

**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
<b>5.b.(1) Annual Report Update:</b> 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
<b>5.b.(2) Annual Report Update:</b> Approximately 176 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 E 5 b (1).	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
<b>5.b.(3) Annual Report Update:</b> UVA tracks maintenance items noted during BMP inspections. Appropriate corrective action is taken when needed to ensure adequate BMP function.					
<b>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.</b>					
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
<p>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.</p>	<p>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.</p>	<p>An accurate, up-to-date BMP spreadsheet.</p>	<p>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.</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>5.d.(1)-(9) Annual Report Update: Two new BMPs meeting the conditions described in 5.d(1)-(9) were installed 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.</p>					

**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: One stormwater management facilities or BMPs meeting the conditions described in 5.g. was installed during the reporting period, permeable pavers at Lambeth Field. This BMP will be uploaded to the DEQ BMP Warehouse by the October 1, 2023 deadline.					

**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
<p><b>Additional Comments on Post-Construction Stormwater Management</b></p>	<p>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.</p>				

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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. <a href="https://pollutionprevention.virginia.edu/sopp/">https://pollutionprevention.virginia.edu/sopp/</a> 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 two illicit discharges during the reporting period. One was a sanitary sewer overflow. The second was caused by a contractor who had properly installed E&SC controls, but allowed muddy water to escape the controls to enter into what they thought was a contained stormwater basin, but actually had a low flow orifice discharging to a nearby stream.					
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: In recent years, 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

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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.a.(4) Annual Report Update: In recent years, UVA has 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.					
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. The training appears to be well received, as ER routinely receives calls from staff and contractors working on projects to ensure their project operations are following proper procedures.					
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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<p>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.</p>	<p>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.</p>	<p>Up-to-date list of high priority facilities with a high potential of discharging pollutants, which require SWPPPs.</p>	<p>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: <a href="https://pollutionprevention.virginia.edu/soppp/">https://pollutionprevention.virginia.edu/soppp/</a></p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>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.</p>					
<p>6.d - Each SWPPP as required in Part I E 6 c shall include the following:</p>					

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<p>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.</p>	<p>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.</p>	<p>SWPPP template and SWPPPs contain all permit-required information.</p>	<p>The SWPPP template is available upon request. The SWPPPs are available online at: <a href="https://pollutionprevention.virginia.edu/soppp/">https://pollutionprevention.virginia.edu/soppp/</a></p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>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.</p>					
<p>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.</p>					
<p>(there are no sub sections to this requirement)</p>	<p>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.</p>	<p>Facilities requiring SWPPPs are identified in a timely manner.</p>	<p>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.</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>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.</p>					
<p>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.</p>					

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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 <a href="https://pollutionprevention.virginia.edu/sopp/">https://pollutionprevention.virginia.edu/sopp/</a>	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 <a href="https://pollutionprevention.virginia.edu/sopp/">https://pollutionprevention.virginia.edu/sopp/</a>	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: <a href="https://pollutionprevention.virginia.edu/sopp/">https://pollutionprevention.virginia.edu/sopp/</a>					
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 from 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
<b>6.j. Annual Report Update: UVA continues to follow its Nutrient Management Plans to moderate fertilizer usage.</b>					
<b>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.</b>					
(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
<b>6.k. Annual Report Update: UVA Nutrient Management Plans continue to prohibit the application of nutrients on impervious surfaces including sidewalks, streets, and driveways.</b>					
<b>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.</b>					
(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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<p>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.</p>					
<p>6.m. The permittee shall develop a training plan in writing for applicable staff that ensures the following:</p>					
<p>6.m.(1) - Field personnel receive training in the recognition and reporting of illicit discharges no less than once per 24 months;</p>	<p>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.</p>	<p>Track training program, dates, and individuals trained. Update training plan as needed to ensure appropriate employees are adequately trained.</p>	<p>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.</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>6.m.(1) Annual Report Update: The training plan and list of training completed during the reporting cycle is available in Appendix C.</p>					
<p>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;</p>	<p>Same strategy as described in 6.m.(1).</p>	<p>Same goal as stated in 6.m.(1)</p>	<p>Same documentation as described in 6.m.(1)</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>6.m.(2) Annual Report Update: The training plan and list of training completed during the reporting cycle is available in Appendix C.</p>					
<p>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;</p>	<p>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.</p>	<p>Same goal as stated in 6.m.(1)</p>	<p>Same documentation as described in 6.m.(1)</p>	<p>Existing, Ongoing</p>	<p>ER, FM</p>
<p>6.m.(3) Annual Report Update: The training plan and list of training completed during the reporting cycle is available in Appendix C.</p>					

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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
<b>6.m.(4) Annual Report Update: UVA currently employs 17 pesticide and 6 fertilizer applicators certified through the VDACS certification program.</b>					
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
<b>6.m.(5) Annual Report Update: All plan reviews and inspections were completed by UVA staff with appropriate certifications.</b>					
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
<b>6.m.(6) Annual Report Update: All plan reviews and inspections were completed by UVA staff with appropriate certifications.</b>					
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
<b>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: <a href="https://pollutionprevention.virginia.edu/sopp/">https://pollutionprevention.virginia.edu/sopp/</a></b>					

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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:					
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.					
<b>Additional Comments on Pollution Prevention and Good Housekeeping</b>	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?
8/1/2022	Piedmont Master Gardeners Brochures	RSEP	Charlottesville Community	Building on the success of last year's efforts, provided an additional 200 "Stormwater Pollution Prevention: A Lawn and Landscape Guide" brochures with yard related tips for PMG to hand out at their events, site visits, and workshops. Also provided LYW and other stormwater pollution prevention magnets and stickers.	✓	
8/22/2022	Student Activities Fair	UVA	UVA Students	CWWG tabled at the Activities Fair and spoke with over 100 students about stormwater runoff, common stormwater pollutants, and the CWWG mission to protect the health of local streams through outreach and engagement projects. CWWG provided LYW and other stormwater pollution prevention magnets and stickers and had 97 students join the CWWG Sympa listserv at this event.	✓	
8/26/2022	Move In Recycling Collection	UVA	UVA Students	FM Recycling and OfS set up and promoted cardboard recycling collection stations during student move-in. Collected 26 tons of cardboard boxes. <a href="https://www.fm.virginia.edu/employees/employeenews/2022/move-in-success.html">https://www.fm.virginia.edu/employees/employeenews/2022/move-in-success.html</a> . Information about the success of the effort was shared widely on UVA internal email lists, promoting litter prevention efforts.	✓	
9/4/2022	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. 9 students collected 7 bags of trash.		✓
9/11/2022	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. 8 students collected 5 bags of trash.		✓
9/18/2022	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 4 bags of trash.		✓
9/20/2022	Social Media Post	RSEP	Charlottesville Community	It is SepticSmart Week, an annual event focused on educating homeowners on proper care and maintenance of septic systems. SepticSmart Week is also an opportunity for your community, organization, local/state government to bring attention to the care and maintenance of septic systems by issuing a Proclamation. Proclamation templates are available through the following link for use by various leaders in the community to recognize SepticSmart Week: <a href="https://www.epa.gov/septic/septicsmart-week">https://www.epa.gov/septic/septicsmart-week</a>	✓	

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
9/24/2022	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. 243 members of the community participated in stream cleanups throughout the area, collecting 148 bags of trash, 173 tires, and covering over 27 miles of river and trail.	✓	✓
9/25/2022	RCA Rivanna River Round-up: Stream clean up event	UVA & RSEP	UVA students	Fourteen 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.		✓
9/25/2021	Corner Clean Up - UVA Sustainability and Hoos Littering	UVA	UVA Students	Participating in Corner Cleanup is a fun way to help keep our environment healthy and beautiful. Keeping litter off of our streets shows care for the local flora and fauna and respect for Charlottesville, where many of us are just temporary residents. All pickers, bags, and gloves will be provided. 55 students participated (from Hoos Littering -26 students, 9 bags of trash collected). Presentation given.	✓	✓
9/28/2022	Sean Tubbs Newsletter - Rivanna River Basin Commission Annual Conference	RSEP	Charlottesville Community	Inclusion of RRBC Conference Description and interview with RSEP member Isabella O'Brien in local newsletter with 1,200 views	✓	
9/29/2022	Rain Barrel Brochures	RSEP	Charlottesville Community	Printed and provided 200 brochures with information on using and constructing rain barrels at home.	✓	
9/29/2022	Rivanna River Basin Commission Annual Conference	RSEP	Charlottesville Community	Conference on the status of stormwater and water quality in the Rivanna watershed including WIP Plan Updates, Stormwater BMP updates, and local updates related to the Chesapeake Bay. Local elected officials participated. Shared Love Your Watershed campaign efforts and link to RSEP website. Members from all 6 localities of the Planning District Commission shared content on their social media pages and took information back to their regional environmental groups. RSEP had a booth at the event with Love Your Watershed information, including magnets and stickers.	✓	✓
10/4/2022	Social Media Post	RSEP	Charlottesville Community	Interested in learning how to best take care of your lawn in the fall? The guide below should help to refresh your autumn gardening knowledge! <a href="https://www.allianceforthebay.org/2022/09/fall-gardening-tips-tricks/">https://www.allianceforthebay.org/2022/09/fall-gardening-tips-tricks/</a>	✓	

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10/5/2022	UVA Observatory Hill: Jefferson's Water Resource for the Academical Village	UVA	Charlottesville Community	<p>Join Lifetime Learning for an afternoon of exploring the history of UVA's Observatory Hill and its under-recognized role as a vital water resource. Garth Anderson, UVA Facility Historian, will talk about the history of Thomas Jefferson's original purchase of the 'mountain' parcel to build and sustain the Academical Village. Nancy Takahashi, Associate Professor Emerita in UVA's Landscape Architecture Department, will explore how UVA's water resources have been managed and developed over time in areas like Meadow Creek, The Dell, Nameless Field, and the RWSA's Water Treatment plant.</p> <p>After lunch, we will tour Observatory Hill sites with our UVA experts. Our walking tour will include the original reservoir, a spring, a geological site, and the water treatment plant. 40 Attendees.</p> <p><a href="https://www.youtube.com/watch?v=CedTuwOAFJY&amp;list=WL&amp;index=43&amp;t=22s">https://www.youtube.com/watch?v=CedTuwOAFJY&amp;list=WL&amp;index=43&amp;t=22s</a></p>	✓	
10/12/2022	UVA Sustainability Newsletter	UVA	UVA Students, Faculty, and Staff	UVA Sustainability Newsletter promoting zero waste events, the UVA Clean Water Act presentation scheduled on October 18, and a corner clean up litter pick up event scheduled on October 23	✓	
10/16/2023	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 6 bags of trash.		✓
10/18/2022	UVA Today, Cavalier Daily Newsletters	UVA	UVA Students, Faculty, and Staff	Promotion of UVA Clean Water Act 50th anniversary event in UVA Today and Cavalier Daily events sections	✓	

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
10/18/2022	UVA Lifetime Learning: The Clean Water Act at 50: New Challenges Around the Bend	UVA	UVA and Charlottesville Community	UVA's Lifetime Learning in partnership with the Sustainability Office invites you to hear from three University of Virginia professors with nationally recognized expertise on the Clean Water Act. This significant Act will celebrate its 50th anniversary this year. It was part of a pathbreaking series of laws that ushered in a wholly novel era of environmental conservation on a nationwide scale. Today, the Clean Water Act is credited with helping to improve water quality throughout the nation, notably in the Chesapeake Bay, and restoring trout streams in Appalachia. It has proved vital to the preservation of wetlands, which filter out pollutants, protect against flooding, and mitigate the erosion of shorelines. However, today, the Clean Water Act faces new challenges. <a href="https://www.youtube.com/watch?v=opaLyPlzooc&amp;list=PLVamHHFbukVn9MRyZfP5Kkcu8I07JEB14&amp;index=6">https://www.youtube.com/watch?v=opaLyPlzooc&amp;list=PLVamHHFbukVn9MRyZfP5Kkcu8I07JEB14&amp;index=6</a>	✓	
10/19 /2022 10/25/2022	Cville Weekly Ad	RSEP	Charlottesville Community	1/2 page ad in local weekly paper with distribution of 10,000 that says "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 storm drains." The posted graphic includes a list of Dos and Don'ts for managing leaf litter, grass, and yard debris. Ad also ran on the Cville Weekly website.	✓	
10/21/2022	UVA Today, UVA Sustainability Newsletters	UVA	UVA Students, Faculty, and Staff	Advertisement of Corner Clean Up on 10/23/2022 from 11am-2pm at Madison Hall	✓	
10/23/2022	Corner Clean Up	UVA	UVA Students	Participating in Corner Cleanup is a fun way to help keep our environment healthy and beautiful. Keeping litter off of our streets shows care for the local flora and fauna and respect for Charlottesville, where many of us are just temporary residents. All pickers, bags, and gloves will be provided. 35 students participated.		✓
10/23/2022	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 4 bags of trash.		✓
10/25/2022	Infiltration Testing	UVA	UVA Students	Fifteen students from Teresa Culver's class performed infiltration testing on permeable asphalt and concrete parking spaces in the Facilities Management Yard.	✓	✓

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10/25/2022	Social Media Post	RSEP	Charlottesville Community	<p>This fall ditch your leaf blower!</p> <p>“Leaves form a natural mulch that helps suppress weeds and fertilizes the soil as it breaks down. Why spend money on mulch and fertilizer when you can make your own? Turning leaves into solid waste is, well, wasteful,” said National Wildlife Federation Naturalist David Mizejewski. “Removing leaves also eliminates vital wildlife habitat. Critters ranging from turtles and toads to songbirds, mammals and invertebrates rely on leaf litter for food, shelter and nesting material. Many moth and butterfly caterpillars overwinter in fallen leaves before emerging in spring. Also, sending organic matter such as leaves to the landfill causes the release of greenhouse gases that contribute to climate change. Best of all, the less time you spend removing leaves, the more time you’ll have to enjoy the gorgeous fall weather and the wildlife that visits your garden.”</p> <p>Visit the Rivanna Stormwater Education Partnership to learn more <a href="https://rivanna-stormwater.org/">https://rivanna-stormwater.org/</a> The posted graphic includes a list of Dos and Don'ts for managing leaf litter, grass, and yard debris.</p>	✓	
10/27/2022	UVA Sustainability Newsletter	UVA	UVA Students, Faculty, and Staff	Promotion of upcoming Headwaters Down film screening at the Virginia Film Festival	✓	
All Home Football Games (9/3/2022, 9/17/2022, 10/8/2022, 10/29/2022, 11/5/2022, 11/12/2022)	Green Games Initiatives	UVA	Football Game Attendees	<p>The Green Games initiative is an effort to encourage fans and volunteers to help reduce and divert waste at athletic events, as well as prevent litter. It began as a competition with other schools to who could divert the most trash from landfills at home basketball games, encouraging more recycling and composting. Because the University already has an active recycling program the University’s sustainability team and involved students focused on communicating and initiating more composting at home games. The Office for Sustainability later opened the doors for students and CIOs to participate and support the initiative through volunteering. Bins are also set up in parking lots around the stadium to allow interaction with and collection of materials from tailgaters.</p>	✓	✓
11/1/2022	UVA Today Headwaters Down Coverage	UVA	UVA Students, Faculty, Staff, and Alumni	UVA Today article about UVA-sponsored Headwaters Down film screening as part of Virginia Film Festival <a href="https://news.virginia.edu/content/uva-ties-run-deep-these-filmmakers?utm_source=DailyReport&amp;utm_medium=email&amp;utm_campaign=news">https://news.virginia.edu/content/uva-ties-run-deep-these-filmmakers?utm_source=DailyReport&amp;utm_medium=email&amp;utm_campaign=news</a>	✓	

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11/2/2022	Rivanna Stream Health Report TV Coverage	RSEP, UVA	Charlottesville Community	News coverage of the Rivanna Stream Health Report, which is completed by RSEP partner RCA. Funding for portions of the stream monitoring are provided by RSEP partners UVA, Charlottesville, and Albemarle. <a href="https://www.cbs19news.com/story/47618104/2022-stream-health-report-for-the-rivanna-river-watershed">https://www.cbs19news.com/story/47618104/2022-stream-health-report-for-the-rivanna-river-watershed</a> , <a href="https://www.nbc29.com/2022/10/19/rca-releases-2022-stream-health-report/">https://www.nbc29.com/2022/10/19/rca-releases-2022-stream-health-report/</a>	✓	
11/2/2022	Cville Weekly Headwaters Down Coverage	UVA	Charlottesville Community	Cville Weekly article about Headwaters Down film screening as part of Virginia Film Festival <a href="https://www.c-ville.com/damaged-but-special">https://www.c-ville.com/damaged-but-special</a>	✓	
11/3/2022	Global Sustainability - Headwaters Down Guest Speaker Event	UVA	UVA Students, Faculty, and Staff	UVA alumni and filmmakers Will Gemma, Justin Black, and Dietrich Teschner were guest speakers for Prof. Phoebe Crismnan's Global Sustainability class. Discussion focused on the importance of storytelling within environmental advocacy, and the filmmakers' approach to and experience with the storytelling process during the making of their environmental documentary, <i>Headwaters Down</i> .	✓	
11/6/2022	Headwaters Down Film Screening	UVA	UVA and Charlottesville Community	Sponsorship and Promotion of <i>Headwaters Down</i> at Virginia Film Festival. Film summary: Once considered the most polluted waterway in the United States, the James River is no stranger to the manmade damages inflicted to commoditize natural resources. Told through the lens of five friends, this adventure-filled documentary captures a 250-mile journey down the James River, beginning in the Blue Ridge Mountains and finally arriving at the Fall Line in the group's hometown of Richmond, Virginia. Throughout the 13-day journey, the crew masterfully captures the river's troubled past while breathing new life into the body of water, highlighting its innate resilience along the way.	✓	✓
11/6/2022	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. 6 students collected 4 bags of trash.		✓
11/12/2022	Habitat for Humanity Rake-a-Thon	UVA	UVA and Charlottesville Community	UVA students volunteer as rakers to rake lawns. The funding benefits Habitat for Humanity, while the raking itself keeps leaves out of storm drains. <a href="https://www.cbs19news.com/story/47685918/uva-students-support-local-habitat-for-humanity">https://www.cbs19news.com/story/47685918/uva-students-support-local-habitat-for-humanity</a> ; <a href="https://www.cvillehabitat.org/what-we-do/rakeathon-volunteers.html">https://www.cvillehabitat.org/what-we-do/rakeathon-volunteers.html</a>		✓

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11/13/2022	Corner Clean Up	UVA	UVA Students	Participating in Corner Cleanup is a fun way to help keep our environment healthy and beautiful. Keeping litter off of our streets shows care for the local flora and fauna and respect for Charlottesville, where many of us are just temporary residents. All pickers, bags, and gloves will be provided. 35 students participated.		✓
11/13/2022	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. 10 students collected 5 bags of trash.		✓
11/21/2022	Social Media Post	RSEP	Charlottesville Community	This Thanksgiving, consider recycling your grease. When poured down the drain, cooking oil and grease combine with other ingredients like food waste and non-flushable items to create large clogs in our sewer systems (like the one pictured here). These clogs block the sewer lines and cause costly and unsafe overflows into backyards, forests, and streams. #EnjoyTheFestRecycleTheGrease	✓	
11/30/2022	TJPDC Email	RSEP	Charlottesville Community	Sharing information about safe winter salting via TJPDC monthly newsletter. Newsletter includes link to RSEP website, RSEP designed infographics, and the Love Your Watershed logo	✓	
12/4/2022	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 3 bags of trash.		✓
12/5/2022	Cavalier Daily Article	UVA	UVA Students, Faculty, and Staff	Cavalier Daily article about threat of rising stream temperatures and potential impacts. Mitigation mentions riparian buffers and improving stormwater management. <a href="https://www.cavalierdaily.com/article/2022/12/extreme-temperatures-in-rivers-could-foreshadow-environmental-damage-in-charlottesville">https://www.cavalierdaily.com/article/2022/12/extreme-temperatures-in-rivers-could-foreshadow-environmental-damage-in-charlottesville</a>	✓	
12/7/2022	Virginia Magazine Article	UVA	UVA Students, Faculty, Staff, and Alumni	VIRGINIA magazine article about the importance of O-Hill to the university, including protection of natural resources and importance of minimizing usage impacts such as erosion from mountain biking: <a href="https://uvamagazine.org/articles/making_a_mountain_into_an_o_hill">https://uvamagazine.org/articles/making_a_mountain_into_an_o_hill</a>	✓	
12/7/2022	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 bags of trash collected.		✓
1/8/2023	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 bags of trash collected.		✓

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1/11/2023	Social Media Post	RSEP	Charlottesville Community	Using excess salt harms plants and animals, pollutes water, damages buildings, and corrodes vehicles, roads and bridges. Once you put salt down, it doesn't go away. Instead, it travels into our local streams, putting aquatic life at risk and endangering our freshwater resources. Salt also alters the composition of soil, slows plant growth, and weakens the concrete, brick and stone that make up our homes, garages, bridges, and roads. Believe it or not, just a coffee mug of salt is enough to treat an entire 20-foot driveway or 10 sidewalk squares.	✓	
2/5/2023	Darden School Cleanup	UVA	UVA Students and Staff	CWWG members removed a great amount of trash and recycling debris from a suspected historical dumping area that was recently found adjacent to the extended detention pond directly west of the Darden School. 13 large bags were collected (7 trash, 6 recycling) and there is still an unknown amount of debris left in the area. 11 participants (10 students, 1 staff).		✓
2/6/2023	Dell Tour	UVA	UVA Students	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. Civil Engineering Klotz - 3	✓	
2/6/2023	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 bags of trash collected.		✓
2/23/2023	UVA Sustainability Newsletter	UVA	UVA Students, Faculty, and Staff	Promotion of upcoming Corner Clean Up Event on 2/26/2023	✓	
2/26/2023	Corner Clean Up	UVA	UVA Students	Participating in Corner Cleanup is a fun way to help keep our environment healthy and beautiful. Keeping litter off of our streets shows care for the local flora and fauna and respect for Charlottesville, where many of us are just temporary residents. All pickers, bags, and gloves will be provided. 45 students participated.		✓
2/26/2023	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 bags of trash collected.		✓
3/8/2023	Social Media Post	RSEP	Charlottesville Community	Check out the new Timely Topic on "Attractive Ways to Manage Stormwater Runoff" at <a href="https://piedmontmastergardeners.org/attractive-ways-to-.../">https://piedmontmastergardeners.org/attractive-ways-to-.../</a> Learn more about stormwater management at the 7 p.m. March 30 online Spring Lecture Series presentation by landscape designers, Elisa Meara and Alex Thompson. They will offer sustainable solutions to your stormwater problems. Register at <a href="https://piedmontmastergardeners.org/events/">https://piedmontmastergardeners.org/events/</a>	✓	



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3/19/2023	Corner Clean Up	UVA	UVA Students	Participating in Corner Cleanup is a fun way to help keep our environment healthy and beautiful. Keeping litter off of our streets shows care for the local flora and fauna and respect for Charlottesville, where many of us are just temporary residents. All pickers, bags, and gloves will be provided. 22 students participated.		✓
3/16/2023	Storm Drain Stencil Social Media Post	UVA	UVA and Charlottesville Community	UVA CWWG Stormwater Stencil Design Contest call for artists. "Create a design that will beautify sidewalks and help protect the health of our local streams!"	✓	
3/19/2023	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 bags of trash collected.		✓
3/22/2023	Social Media Post	RSEP	UVA and Charlottesville Community	Promotion of World Water Day video post by Rivanna Conservation Alliance and City of Charlottesville. Video details better ways to use, consume, and enjoy water, including: picking up pet waste if you have a dog, and bringing a grocery bag and gloves when going out on a walk, hike, or paddle to pick up trash as you go to leave the trail or stream cleaner than you found it.	✓	
3/27/2023	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 bags of trash collected.		✓
3/30/2023	UVA Sustainability Newsletter	UVA		Promotion of upcoming earth day every day events, including a Corner Clean Up on April 2nd and the Beta Bridge Stream Clean Up on April 15th. Other promotions include waste reduction efforts such as recycling sort facility tours, Black Bear composting tours, and a plastics free pledge.	✓	
3/31/2023	FM Occupational Programs email	UVA	UVA Facilities Management Staff	Email to all FM Staff (1000+) announcing storm drain stencil contest and promoting protecting stream health	✓	
4/2/2023	Corner Clean Up	UVA	UVA Students	Participating in Corner Cleanup is a fun way to help keep our environment healthy and beautiful. Keeping litter off of our streets shows care for the local flora and fauna and respect for Charlottesville, where many of us are just temporary residents. All pickers, bags, and gloves will be provided. 42 students participated.		✓
3/27/2023	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 bags of trash collected.		✓
4/4/2023	Class for Master Gardener Trainees	UVA	25 future Piedmont Master Gardeners	Class taught on stormwater management and Conservation Landscape Design to Master Gardner trainees using UVA BMPs as examples.	✓	

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4/6/2023	Only Poo Down the Loo email	UVA	UVA Facilities Management Staff	Email to all FM Staff (1000+) about what can and can't be flushed down the toilet, how sanitary sewer overflows are caused, and linking to UVA Energy & Utilities' video about respecting sanitary sewers <a href="https://vimeo.com/536078304">https://vimeo.com/536078304</a>	✓	
4/8/2023	Master Gardener Trainee Workshop	UVA	25 future Piedmont Master Gardeners	Three-hour workshop taught on Stormwater Management and Conservation Landscape Design to Master Gardner trainees. This workshop took place on UVA's Grounds and focused on UVA's stormwater management implementation. Focused on BMPs with discussions on impacts to local hydrology and the environment.	✓	✓
4/12/2023	UVA BMP Tour	UVA	12 Students	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), extended detention, cisterns, dry swales and .	✓	
4/15/2023	Beta Bridge Stream Cleanup	UVA	UVA Students and Charlottesville Community	Annual stream cleanup of Beta Bridge area. 33 participants.		✓
4/15/2023	Beta Bridge Stream Cleanup news coverage	UVA	Charlottesville Community	NBC 29 aired coverage of the Beta Bridge Stream Cleanup, including an interview with the Clean Water Working Group, to promote stewardship of our local streams.	✓	
4/17/2023	UVA Sustainability Newsletter	UVA	UVA Students, Faculty, and Staff	Newsletter promoting a multitude of upcoming Earth Day events including the UVA and Community Eco-Fair and Household Hazardous Waste collection days at RSWA.	✓	
4/21/2023	UVA and Community Eco-Fair	UVA	UVA Students and Charlottesville Community	Come celebrate our shared planet with UVA Sustainability and community partners. Explore green careers and involvement opportunities, plus activities, food, and giveaways at interactive tables. Local green businesses * UVA and community orgs * Electric vehicle demo * Cav Man * La Flor popsicles * Lawn games * Food vendors * Zero waste * ROSE pop-up * and more. UVA Environmental Resources tabled with CWWG and "Love Your watershed" information. ER interacted with at least 200 people, and 37 UVA students joined the CWWG listserv. Estimated 500 event attendees.	✓	
4/17/2023	UVA Sustainability Newsletter	UVA	UVA Students, Faculty, and Staff	Newsletter promoting a multitude of upcoming Earth Day events including the Tabling at IX Park and Cville Mall as well as a trash pickup at Meadow Creek.	✓	
4/21/2023	UVA Prescription Drug Take Back Program	UVA	Charlottesville Community	Announcement of expansion of UVA prescription drug take back program, free for residents of Charlottesville area and Augusta County area. <a href="https://newsroom.uvahealth.com/2023/04/21/uva-health-adds-new-locations-to-dispose-of-unwanted-medications-year-round/">https://newsroom.uvahealth.com/2023/04/21/uva-health-adds-new-locations-to-dispose-of-unwanted-medications-year-round/</a>		✓

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
4/24/2023	Social Media Post	RSEP	Charlottesville Community	<p>Captured rainwater is perfect for irrigating landscaped beds, watering potted plants, and outdoor chores like bike or car washing. Rain barrels can reduce stormwater runoff from your property, which is beneficial to local waterways. This is a workshop on how to set up your own rain barrel and will share information on stormwater runoff, water conservation, and gardening in our area. You will receive a plastic barrel and a DIY assembly kit with your workshop registration.</p> <p>Registration Link: <a href="https://webtrac.charlottesville.gov/.../iteminfo.html...">https://webtrac.charlottesville.gov/.../iteminfo.html...</a></p> <p>*City of Charlottesville and Albemarle County Service Authority water utility customers are eligible for an additional \$30 rebate for attending the workshop. Rebate requests must be made AFTER the rain barrel is installed, you must be eligible for a rain barrel rebate, you must show proof of installation, and additional terms apply, please contact your water supplier's rain barrel rebate program for questions.</p>	✓	
4/29/2023	Kayak Cleanup with UVA Outdoors	UVA	UVA Students	Join IM-REC and UVA Sustainability for a trash cleanup at Ragged Mountain Reservoir followed by a free boat ride! We'll provide all of the equipment (boats, PFDs, and cleanup gear), just show up and bring a friend! Transportation can be provided. This event is intended for UVA students only. Three two-hour time blocks offered		✓
4/29/2023	Kid*vention	RSEP	Charlottesville Community	Kid*vention is an annual family science festival that features local exhibitors. The City of Charlottesville tabled with RSEP and "Love Your Watershed" information. Estimated 500 visitors.	✓	
5/5/2023	Rainworks Stencil Installation	UVA	UVA Community	One of the two winning stormwater stencil designs was applied on the McCormick Road sidewalk near a storm drain on the north side of Thornton Hall. The stencil design depicts a fish saying "Don't Make <i>Your</i> Trash My Problem", indicating that any pollution that enters a storm drain will flow directly to local streams, untreated.	✓	✓
5/8/2023-5/11/2023	Student Vehicle Checks	UVA	UVA Students	UVA P&T staff offered a pilot Student Vehicle Check program prior to students going home for the semester. P&T Mechanics checked the basics of students cars and offered suggestions, including checking for oil drips and recommending repairs as needed. Leaking student vehicles on grounds contributes to stormwater pollution so helping to encourage students to keep their vehicles in good repair is a P2 measure. 10 students participated.	✓	✓
5/11/2023	Rainbarrel Workshop	RSEP	Charlottesville Community	Workshop for local residents on how to assemble a rain barrel to collect rain water from residents gutters. 25 participants.		✓

Date	Activity or Event Title	UVA or RSEP	Audience	Event Description	Education and Outreach?	Involvement and Participation?
5/20-21/2022	UVA Graduation Balloon Collection	UVA	UVA Students, Faculty, Staff, and community	UVA Sustainability collects balloons after UVA graduation to prevent them from being released into the environment where they become pollutants. <a href="https://news.virginia.edu/content/graduation-balloons-buoy-young-patients-spirits">https://news.virginia.edu/content/graduation-balloons-buoy-young-patients-spirits</a>	✓	✓
5/21/2023	Rivanna Riverfest	UVA, RSEP	Charlottesville Community	Rivanna RiverFest - RSEP had an information table for 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! Games for kids included Spin the Wheel, bioretention cornhole, and watershed coloring pages. Estimated ~1000 attendees.	✓	✓
6/5/2023	Social Media Post	RSEP	Charlottesville Community	Did you know that you live in the Rivanna watershed, which is part of the greater Chesapeake Bay watershed? Chesapeake #BayAwareness Week began this weekend and is a time to celebrate the cultures, history and natural beauty of the nation's largest estuary. Discover your connection to the Bay by attending one of these events: <a href="https://www.chesapeakebay.net/.../chesapeake-bay.../attend">https://www.chesapeakebay.net/.../chesapeake-bay.../attend</a>	✓	
6/6/2023	Social Media Post	RSEP	Charlottesville Community	Today, as part of Chesapeake #BayAwarenessWeek, we are focusing on restoration projects in the watershed. Restoration projects in the watershed come in many varieties, from repairing an eroded stream bank, planting trees along streams, planting a conservation landscape, and more! Explore available funding opportunities for restoration projects: <a href="https://tjpc.org/.../BMP-GRANT-OPPORTUNITIES-June-2023.pdf">https://tjpc.org/.../BMP-GRANT-OPPORTUNITIES-June-2023.pdf</a> #LoveYourWatershed	✓	
6/28/2023	UVA Today Article - Alderman Library Sustainability	UVA	UVA Community	UVA Today article describing sustainability features in Alderman Library includes description of stormwater BMP capturing runoff and associated benefits: <a href="https://news.virginia.edu/content/sustainability-incorporated-alderman-library">https://news.virginia.edu/content/sustainability-incorporated-alderman-library</a>	✓	

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?
10/10/2022	Discharge of sediment from geoexchange well test bore into a tributary of Meadow Creek.	Full report sent to DEQ. Cleanup of sediment released into sediment basin, outfall, and that which could be removed from the stream without causing potential additional harm.	Full report sent to DEQ. FM E&U took on responsibility for installation of E&SC for all future drilling sites.	10/10/2022	Yes, ER Teams Site, DEQ PReP Report Incident ID 306774	Yes	Dan Frisbee, City of Charlottesville	Yes	Yes	No	N/A
4/3/2023	A sanitary sewer manhole north of the UVA cemetery overflowed since it was blocked by gritty rocky like material. In this manhole, a 10' PVC line is connected to an 8" terra cotta line. The line was blocked at this downsizing in the pipe. Sewage that soaked into the adjacent grassy area flowed into Meadow Creek from an old, abandoned pipe. At this point, the creek had a gray, cloudy appearance and sanitary-related sedimentation.	UVA Utilities jetted the line to remove the blockage. Hydrated lime was applied to surface areas impacted by the discharge. Flow from this pipe continued, but was clear by 5 pm. A dye test of the sanitary sewer was performed on 4/3 and 4/5, the second showing a hydraulic connection between the terra cotta pipe and the abandoned pipe.	On 4/5/23, UVA Utilities filled the abandoned pipe with material to prevent it from being a conduit for illicit discharges. They replaced the 8" terra cotta sewer pipe with a 10" pipe during the week of April 10. ER sent an email reminder on 4/6 to FM staff about what is appropriate to put down the toilet.	4/5/2023	Yes, ER Teams Site, DEQ PReP Report Incident ID 309359	Yes	Jennifer Watson, FM	No, directly to Meadow Creek	N/A	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	2022-2023 Training
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, including new employees. 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 provided in the years between the online training pushed out via HR.	2/10/2022	20	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 2022 and February 2023. 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 850 staff were trained. New FM Employees also recieved this training as part of New Employee Safety Training. Approximately 220 new employees also recieved the training.
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	
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	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		



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	2022-2023 Training
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	2022-2023 Training
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

<b>Specialty Training</b>									
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	7/1/2022-6/30/2023 - 25 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	Spring 2023, 11 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 has little potential for discharge.

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
Fontaine Composting Site												Not a high priority facility. No potential to discharge observed.
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

# 2023 MS4 Annual Report – TMDL Updates

## **Chesapeake Bay TMDL**

Two new BMPs were completed within the regulated MS4 boundary during the reporting period that contributed reductions for the Chesapeake Bay TMDL.

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 Phosphorous and Total Suspended Solids, and achieved 65% of the Total Nitrogen reduction goals. Planning for a stream restoration project is progressing that will complete the required reductions for all three pollutants of concern.

## **Rivanna TMDL – Sediment**

Two new BMPs were completed within the regulated MS4 boundary during the reporting period that contributed reductions for the benthic TMDL. A stream restoration project is progressing and will soon be transitioning from the schematic to the design 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.