Virginia State University MS-4 Permit: VAR040119 July 1, 2013 - June 30, 2014 Annual Report



Prepared for

Virginia State University
Capital Outlay & Facilities Management
PO Box 9414
Virginia State University, VA 23806

October 1, 2014

Prepared by: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond, VA 23225 (804) 200-6500



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1.0 Background Information

(1) Name and permit number of the program submitting the annual report; (2) The annual report permit year; (3) Modifications to any operator's department's roles and responsibilities; (4) Number of new MS4 outfalls and associated acreage by HUC added during the permit year; (5) Signed certification in accordance with 9VAC25-870-370.

- Name and permit number of the program submitting the annual report. Virginia State University Permit # VAR040119
- The annual report permit year. This serves as the annual report for permit year one of the 2013-2018 General Permit term. This annual report covers a time period from approximately July 2013 – June 2014.
- Modifications to any operator's department's roles and responsibilities. This is the first year of the 2013-2018 General Permit term and as such the Program Plan has been prepared to meet the new permit requirements. The operator's roles and responsibilities have been provided in the new Program Plan and are not considered to be modified for the purposes of this report.
- Number of new MS4 outfalls and associated acreage by HUC added during the permit year No new outfalls were added during the permit year.
- Signed certification in accordance with 9VAC25-870-370 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.

Director for Capital Outlay

moth a 21

9-17-14 Date



jataylor@vsu.edu

For questions about the annual report submittal or VSU's MS4 Program Plan, please contact:

Jonathan Taylor
Director for Capital Outlay
Virginia State University
Physical Plant Building
2916 Myster Macklin Street
PO Box 9414, Suite 25
Virginia State University, VA 23806
Tel: (804) 504-7500

2.0 Status of Permit Condition Compliance

The status of compliance with permit conditions, an assessment of the appropriateness of the identified best management practices and progress towards achieving the identified measurable goals for each of the minimum control measures.

2.1. Assessment of BMP Appropriateness/Self Audit

This is the first year of the 2013-2018 General Permit term and as such a new Program Plan has been prepared to meet the new permit requirements as required at the time of this report. An MS4 program evaluation was performed on the VSU MS4 Program in accordance with the EPA's MS4 Program Evaluation Guidance, as required by the 2008-2013 General Permit. The results of the evaluation in conjunction with the 2013-2018 General Permit requirements were used to develop a new Program Plan for 2013-2018. The new Program Plan elements and BMPs are considered to be appropriate based on the 2013-2018 General Permit requirements.

2.2. Measurable Goals Progress

MCM 1: Public Education and Outreach

This is the first year of the 2013-2018 General Permit term and as such the Program Plan has been prepared to meet the new permit requirements for MCM1 as required at the time of this report. While the 2013-2018 Program Plan was being prepared, VSU continued to implement the public education and outreach program from the 2008-2013 Program Plan that was included with the registration statement as allowed by the 2013-2018 General Permit. This annual report includes an update on the 2008-2013 MCM 1 Program Plan BMPs/elements in addition to an update on the 2013-2018 MCM1 Program Plan BMPs/elements, as appropriate. Subsequent annual reports will include the reporting requirements based on the 2013-2018 Program Plan.

Annual Reporting based on the 2008-2013 Program Plan:

BMP 2.1.1 Environmental Stewardship link on VSU website



The University has created the link on their website, which was located at the following web address: http://www.vsu.edu/about/administrative-offices/admin-finance/capital-outlay-and-facilities/facilities-management/enviromental-stewardship.php

The webpage information has been moved due to a recent website update, and can now be found at:

http://www.vsu.edu/about/administrative-offices/admin-finance/facilities-management/enviromental-stewardship.php

BMP 2.1.2 Public Outreach

During 2013/2014, students, faculty and staff at VSU participated in the following public education and outreach initiatives, specifically geared at reaching target audiences:

- 1) Fort Lee's Annual Earth Day event was held on Thursday, April 24, 2014. VSU participated as an exhibitor and showcased information on Water Quality, Land Stewardship, Smart Land Use, and Organic Gardening.
- 2) On April 25, 2014, VSU donated a tree for Arbor Day at Ettrick Elementary School. The tree was planted in the courtyard by 2nd grade students with the help of the University students. The hands-on experience helped the students learn about Arbor Day and trees. The elementary students were also give a tree to plant at home.
- 3) In June 2014, VSU hosted the 43,560 / USDA Field Day at Randolph Farm, which featured learning how to gross up to \$43,560 on one acre of land.

Please refer to Appendix MCM 1 for documentation of these events.

BMP 2.1.3 Campus engineering group oversight

There were no changes to this program during the 2013-2014 reporting period.

BMP 2.1.4 Work Quality and Control Standards for contractors

There were no changes to this program during the 2013-2014 reporting period.

Annual Reporting Based on the 2013-2018 Program Plan:

Annual Reporting Requirement 1: Provide a list of the education and outreach activities conducted during the reporting period for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that will be reached.



A list of proposed education and outreach activities will be provided with the 2013-2018 permit year 2 annual report as required by the 2013-2018 permit.

Annual Reporting Requirement 2: A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience or audiences that will be reached.

Provided in the new 2013-2018 Program Plan.

MCM 2: Public Involvement and Participation

This is the first year of the 2013-2018 General Permit term and as such the new Program Plan has been prepared to meet the new permit requirements for MCM2 as required at the time of this report. The requirements of the 2008-2013 General Permit and associated Program Plan are very similar to the requirements of the 2013-2018 General Permit and associated Program Plan. As such, VSU continued to implement the 2008-2013 Program as appropriate while the new 2013-2018 Program was also prepared and implemented during the reporting period. This annual report includes an update on the 2013-2018 Program Plan requirements, as they were identified and completed during the Permit Term; however, any additional questions about the 2008-2013 Program can be addressed by the Program Administrator, if necessary.

Annual Reporting Requirement 1: Provide a web link to the MS4 Program Plan and Annual Report

The MS4 Program Plan and Annual Report are available for public review at the following website: http://www.vsu.edu/about/administrative-offices/admin-finance/capital-outlay-and-facilities/capital-outlay/annual-standard-forms-info.php.

Annual Reporting Requirement 2: Documentation of compliance with the public participation requirements.

VSU identified and participated in the following four local events/activities provided in the 2013-2018 Program Plan to address public involvement with stormwater and environmental activities:

- 1. Promote and support Ft. Lee's Annual Earth Day Event (refer to MCM1 for documentation of this event)
- 2. Seek Tree Campus USA Program Designation. VSU formed a joint Tree Campus USA and Stormwater Committee and is taking steps to receive the Tree Campus USA designation. Refer to MCM 2 for documentation of this activity.
- 3. See Partnership opportunities for public involvement and participation with other local MS4 programs. VSU and the City of Petersburg



- participated in a joint rain barrel workshop. Refer to MCM2 for documentation of this activity.
- 4. Seek Classroom guest speakers that focus on stormwater. Timmons Group gave a presentation about the University's MS4 program and stormwater management on April 17, 2014 to one of the VSU urban forestry courses. Refer to MCM2 for documentation of this activity.

MCM3: Illicit Discharge Detection and Elimination

This is the first year of the 2013-2018 General Permit term and as such the new Program Plan has been prepared to meet the new permit requirements for MCM3 as required at the time of this report. The requirements of the 2008-2013 General Permit and associated Program Plan are very similar to the requirements of the 2013-2018 General Permit and associated Program Plan. As such, VSU continued to implement the 2008-2013 Program as appropriate while the new 2013-2018 Program was also prepared and implemented during the reporting period. This annual report includes an update on the 2013-2018 Program Plan requirements, as they were identified and completed during the Permit Term; however, any additional questions about the 2008-2013 Program can be addressed by the Program Administrator, if necessary.

Annual Reporting Requirement 1: A list of any written notifications of physical interconnection given by the operator to other MS4s

During the annual outfall IDDE screenings it was discovered that the VSU MS4 is interconnected with VDOT's MS4 along Chesterfield Avenue. A copy of the notification letter sent to VDOT has been included in Appendix MCM3

Annual Reporting Requirement 2: The total number of outfalls screened during the reporting period, the screening results, and detail of any follow-up actions necessitated by the screening results.

22 outfalls were screened during the reporting period resulting in no follow-up actions required aside from the continuation of annual screening unless otherwise required by suspected illicit discharge. Refer to Appendix MCM 3 for outfall screening results.

Annual Reporting Requirement 3: A summary of each investigation conducted by the operator of any suspected illicit discharge. The summary must include: (i) the date that the suspected discharge was observed, reported, or both; (ii) how the investigation was resolved, including any follow-up, and (iii) resolution of the investigation and the date the investigation was closed.

No illicit discharges were reported during the reporting period.

Annual Reporting Requirement 4: Outfall mapping & Database Table

The required outfall mapping and database table are provided in the Program Plan.



MCM 4: Construction Site Stormwater Runoff Control

This is the first year of the 2013-2018 General Permit term and as such the new Program Plan has been prepared to meet the new permit requirements for MCM4 as required at the time of this report. The requirements of the 2008-2013 General Permit and associated Program Plan are very similar to the requirements of the 2013-2018 General Permit and associated Program Plan. As such, VSU continued to implement the 2008-2013 Program as appropriate while the new 2013-2018 Program was also prepared and implemented during the reporting period. This annual report includes an update on the 2013-2018 Program Plan requirements, as they were identified and completed during the Permit Term; however, any additional questions about the 2008-2013 Program can be addressed by the Program Administrator, if necessary.

Annual Reporting Requirement 1: Total number of regulated land-disturbing activities

Four regulated land disturbing activities were conducted within the reporting period. Refer to Appendix MCM 4 for documentation.

Annual Reporting Requirement 2: Total number of acres disturbed

Approximately 50 acres of area was disturbed for this reporting period. Refer to Appendix MCM 4 for documentation.

Annual Reporting Requirement 3: Total number of inspections conducted

Approximately 12 inspections were conducted within this reporting period. The University is working to improve on the frequency and consistency of the inspections. Refer to Appendix MCM 4 for representative inspection report documentation.

Annual Reporting Requirement 4: A summary of the enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period

No enforcement actions were taken beyond typical compliance time requirements provided on erosion and sediment control inspection forms.

MCM5: Post Construction Stormwater Management in New Development and Development on Prior Developed Lands

This is the first year of the 2013-2018 General Permit term and as such the new Program Plan has been prepared to meet the new permit requirements for MCM5 as required at the time of this report. The requirements of the 2008-2013 General Permit and associated Program Plan are very similar to the requirements of the 2013-2018 General Permit and associated Program Plan. As such, VSU continued to implement the 2008-2013 Program as appropriate while the new 2013-2018 Program was also prepared and implemented during the reporting period. This annual report includes an update on the 2013-2018 Program Plan requirements, as they were identified and



completed during the Permit Term; however, any additional questions about the 2008-2013 Program can be addressed by the Program Administrator, if necessary.

Annual Reporting Requirement 1: The operator shall maintain an updated electronic database of all known operator-owned and privately-owned stormwater management facilities that discharge into the MS4.

The required stormwater management facility database is provided in the Program Plan.

Annual Reporting Requirement 2: The operator shall submit an electronic database or spreadsheet of all stormwater management facilities brought online during each reporting year with the appropriate annual report.

Two BMPs were brought online during the reporting period. The most up to date stormwater management facility database is provided in the Program Plan.

Annual Reporting Requirement 3: VSU provides post-construction inspections and maintenance of operator-owned post-construction stormwater management facilities in accordance with the Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management provided in Appendix MCM 4 of the Program Plan.

Annual facility inspection reports are provided in Appendix MCM 5 for documentation purposes. The two new facilities brought online during the reporting period will be inspected annually as required starting in permit year 2.

MCM 6: Pollution Prevention/Good Housekeeping for Municipal Operations
This is the first year of the 2013-2018 General Permit term and as such the Progr

This is the first year of the 2013-2018 General Permit term and as such the Program Plan has been prepared to meet the new permit requirements for MCM6 as required at the time of this report. While the 2013-2018 Program Plan was being prepared, VSU continued to implement the Pollution Prevention/Good Housekeeping for Municipal Operations Program from the 2008-2013 Program Plan that was included with the registration statement as allowed by the 2013-2018 General Permit. This annual report includes an update on the 2008-2013 MCM 6 Program Plan BMPs/elements in addition to an update on the 2013-2018 MCM 6 Program Plan BMPS/elements as appropriate. Subsequent annual reports will include the reporting requirements based on the 2013-2018 Program Plan.

Annual Reporting based on the 2008-2013 Program Plan:

BMP 2.6.1 Campus-wide pollution prevention and good housekeeping

Trash accumulation in Fleets Branch is minimized and controlled by conducting a daily trash pick-up on campus (seven days per week). Maintenance personnel police the campus every morning for trash to ensure that trash is picked up before it blows into catch basins, retention ponds, or Fleets Branch; additionally, trash is picked-up immediately following all outdoor sporting events to ensure that the campus grounds and the storm water system is kept clean.



In general, good Operations and Maintenance practices implemented and practiced on a routine basis included use of refueling checklists prior to fuel deliveries at the heating plant and when refueling the emergency diesel generators.

An Oil Discharge Control Plan (ODCP) was approved in July 2011 to meet DEQ requirements. The ODCP is designed to meet Commonwealth of Virginia DEQ requirements.

BMP 2.6.2 Nutrient Management Plan

A copy of the certification for 2013 is included in Appendix MCM 6 of this report. The University switched landscape service providers in January 2014. The staff using applying nutrients are certified applicators; copies of the certifications are included in Appendix MCM 6

Annual Reporting based on the 2013-2018 Program Plan:

Annual Reporting Requirement 1: A summary report on the development and implementation of the daily operational procedures

Daily operational procedures will be developed by permit year 2 as required by the 2013-2018 General Permit.

Annual Reporting Requirement 2: A summary report on the development and implementation of the required SWPPPs

Locations and facilities requiring SWPPPs have been identified in the Program Plan as required by the timeframes in the 2013-2018 General Permit. SWPPPs will be prepared planned to be developed and implemented by permit year 4 as required by the 2013-2018 General Permit.

Annual Reporting Requirement 3: A summary report on the development and implementation of the turf and landscape nutrient management plans that includes:

1. The total acreage of lands where turf and landscape nutrient management plans are required

Turf and landscape nutrient management plans are required by the MS4 permit on approximately 16.07 acres of campus.

2. The acreage of lands upon which turf and landscape nutrient management plans have been implemented

As required by the permit, NMPs are planned to be implemented on the following schedule:

a. By June 30, 2015, not less than 15% of all identified acres will be covered by turf and landscape nutrient management plans;



- b. By June 30, 2016, not less than 40% of all identified acres will be covered by turf and landscape nutrient management plans;
- c. By June 30, 2017, not less than 75% of all identified acres will be covered by turf and landscape nutrient management plans;
- d. By June 30, 1018, not less than 100% of all identified acres will be covered by turf and landscape nutrient management plans;

A summary report on the required training, including a list of training events, the training date, the number of employees attending training and the objective of the training

The new Program Plan was prepared to reflect the training requirements of the 2013-2018 General Permit.

3.0 Results of Collected Data

Results of information collected and analyzed, including monitoring data, if any, during the reporting period.

Virginia State University was not required to collect and analyze any formal monitoring data during this reporting period.

4.0 Future Stormwater Activities

A summary of the stormwater activities the operator plans to undertake during the next reporting cycle.

- Prepare Chesapeake Bay TMDL Action Plan
- Develop and implement Standard Operating Procedures
- Implement Training Program as developed in the 2013-2018 Program Plan
- Implement Public Education and Outreach Program as proposed in the 2013-2018 Program Plan
- Implement Public Involvement and Participation Program as identified in the 2013-2018 Program Plan
- Implement IDDE Program as identified in the 2013-2018 Program Plan
- Implement Construction Site Stormwater Runoff Control Program as identified in the 2013-2018 Program Plan
- Implement the Post-Construction Stormwater Management Program as identified in the 2013-2018 Program Plan
- Implement the Pollution Prevention/Good Housekeeping for Municipal Operations Program as identified in the 2013-2018 Program Plan

5.0 Changes in BMPs and Minimum Control Measures

A change in any identified best management practices or measurable goals for any of the minimum control measures including steps taken to address deficiencies.



5.1. Changes in BMPs

This is the first year of the 2013-2018 General Permit and as such the Program Plan has been prepared to meet the 2013-2018 General Permit requirements. The BMPs/Program Elements have been provided in the 2013-2018 Program Plan included with this annual report submittal.

5.2. Changes in Measurable Goals

This is the first year of the 2013-2018 General Permit and as such the Program Plan has been prepared to meet the 2013-2018 General Permit requirements. The measureable goals have been provided in the 2013-2018 Program Plan included with this annual report submittal.

6.0 Government Reliance for Permit Obligations

Notice that the operator is relying on another government entity to satisfy some of the permit obligations (if applicable).

Not applicable at this time.

7.0 Section II C Program Status

The approval status of any programs pursuant to Section II C (if appropriate), or the progress towards achieving full approval of these programs

Not applicable at this time.

8.0 General Permit Section I B 9 Information

Information required for any applicable TMDL special condition contained in Section I

- VSU has not been assigned any WLAs in any TMDLs as of the preparation of this report.
- The Program Plan has been updated to reflect the special condition requirements for the Chesapeake Bay TMDL.

Appendix SC

No Special Conditions (SC) documentation is required with this annual report.

Appendix MCM 1

2014 FORT LEE EARTH AND SAFETY DAY

Exhibitor Participation Form **DUE: March 31, 2014**

Thank you for participating in this year's Earth and Safety Day celebration! We sincerely appreciate your time, effort, and service to the Fort Lee Community. The event wouldn't be the same without you!

EVENT DETAILS: Thursday, April 24, 2014 from 8a.m. to 2p.m. at the Fort Lee Theater (Lee Playhouse) and adjacent parking lot and lawn areas. This year's event will consist of two, eighty minute presentations inside the Post Theater highlighting the importance of Environmental Stewardship, Safe Driving, and Suicide Prevention. Educational exhibitors and displays will be outdoors in the lawn and parking area surrounding the Theater. The event is open to Military and Civilian Personnel and the Fort Lee Community. No school children will be in attendance this year.

DIRECTIONS: From Lee Ave Gate, continue straight on Lee Ave, turn left onto Mahone Ave after Williams Stadium.

INCLEMENT WEATHER: This year's event will host scheduled speakers indoors, so there is no rain date. If inclement weather is forecasted, exhibitors unable to attend can notify the Exhibitor Coordinator at any time.

OTHER INFORMATION: Participation in the event is free and we will provide tables and chairs for your exhibit. However, you must provide your own table and chairs if not requested in this Participation Form by the due date. We apologize for any inconvenience as there is limited indoor/covered exhibit space. Covered space can be provided on a first-come-first-served basis or to accommodate health needs. We recommend exhibitors bring a popup tent to provide shade as we have a limited number of tents available. We apologize, but electricity is not readily available this year. All exhibitors are required to check in at the exhibitor check-in desk prior to set-up. You may set up your exhibit from 7a.m. to 8a.m. the morning of the event and we ask that you do not remove your exhibit until 2 p.m. If you require special set-up/take-down accommodation, please contact the Exhibitor Coordinator. Also, as this is an Earth and Safety Day event we ask that you remain conscious of your impact on the environment and safety when planning your exhibit – try to use recycled materials, reduce or eliminate paper handouts.

If you have any questions/comments/concerns feel free to contact the Exhibitor Coordinator at:

Alexander.a.alvarado6.ctr@mail.mil 804-734-5123

Your completion of this form indicates you understand and accept the event information described above.

Business/Organization Name: _Virginia State University – College of Agriculture						
Contact Person: Pau	la H. McCapes	Title: _F	Pub. Relations & Mktg Specialist			
Address: 1 Hayden St	treet – Virginia State University					
City/State: Petersbur	rg, Va		Zip Code: _23806			
Phone #: 804.524.5839		Fax #:	n/a			
Emergency Phone #:	804.337.1886					
Exhibit Plans/Details:	Water Quality, Land Stewardsh	nip, Smart land use,	organic gardening			
# of Tables Requested: We will bring our own		# of Chair Requ	nested: We will bring our own			
	covered walkway, lawn, near exhibitor, etc.):	•	e approximately 4 10'x10' areas plus a ratory (the size of a charter coach bus)			

Other requests/comments: Click here to enter text.

Please return completed Participation Forms by March 31 to alexander.a.alvarado6.ctr@mail.mil

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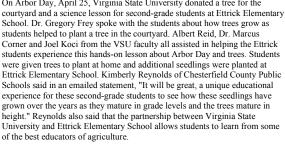
Arbor Day at Ettrick Elementary

Published: May 20, 2014

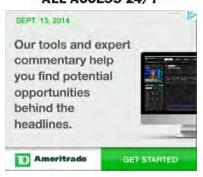
ARTICLE TOOLS



On Arbor Day, April 25, Virginia State University donated a tree for the









\$30 (Three \$10 Vouchers) Worth of Dry Cleaning Services for \$15 at The Clothes Hanger in W-B 50% \$15.00

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NATIONAL VIDEO

CONTRIBUTED PHOTO Ettrick Elementary second-grade students help plant a tree in the school courtyard on Arbor Day contributed photos Virginia State University faculty joins Ettrick Elementary School students and staff on Arbor Day to plant a tree in the courtyard and lead a lesson about how trees grow.

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The VSU Small Farm Outreach Program presents

The 43,560/USDA Field Day





at VSU Randolph Farm 4415 River Road, South Chesterfield, VA



Learn How:

- *You can possibly gross up to \$43,560 on one acre of land
- * USDA can help you grow your operation through the new Farm Bill

Schedule

8:00 AM - Registration Opens (breakfast for pre-registered attendees)

8:45 AM - Welcome and Introductory Remarks **9:15 AM** - Transition to First Breakout Session

9:30 AM - Session One Begins

Red Thumbi

10:45 AM - Transition to Second Breakout Session

11:00 AM - Session Two Begins

12:15 PM - Official End of Program (Speakers will remain on site to answer questions from attendees.)

Pre-registration is free and guarantees box breakfast

EVENT WILL BE HELD RAIN OR SHINE

Register now at:

http://tinyurl.com/vsufieldday2014

or call Mark Klingman at (804) 524-5493

Sponsored by Virginia USDA StrikeForce, Old Dominion Electric Cooperative, and Colonial Farm Credit

Appendix MCM 2

Amelia Wehunt

Subject: Tree Campus USA Committee Meeting

Location: Physical Plant, Rm. 10A

 Start:
 Tue 5/6/2014 2:00 PM

 End:
 Tue 5/6/2014 4:00 PM

Show Time As: Tentative

Recurrence: (none)

Meeting Status: Tentatively accepted

Organizer: Jane S. Harris

Please hold this date for the first meeting of the Tree Campus USA committee for VSU Meeting details to be distributed closer to meeting date

COMMITTEE

MEMBERS

IVILIVIDLING			
Jane Harris	<u>isharris@vsu.edu</u>	Associate Vice President	Capital Outlay and Facilities
Jonathan Taylor	<u>jataylor@vsu.edu</u>	Director, Capital Outlay	Capital Outlay and Facilities
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Miles Steele	msteele@vsu.edu	Contractor	Capital Outlay and Facilities
Amelia Wehunt	amelia.wehunt@timmons.com	<u>Contractor</u>	Capital Outlay and Facilities
Peter Girardi		Contractor	Capital Outlay and Facilities
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Sarah Melissa Witiak	switiak@vsu.edu	Assistant Professor	Biology
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Heather Barrar	BarrarH@chesterfield.	Sr. Planner	Chesterfield County
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Mike Hickam	mhickam@vsu.edu	Safety Manager	Campus Safety Office

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DRAFT

VSU Campus Tree and Stormwater Advisory Committee

May 2014

Members

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Contractor
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Contractor
Contractor
Assistant Professor
Associate Professor
Graduate Student
Sr. Planner
Area Forester
Extension Associate
Safety Manager

Capital Outlay and Facilities
Cooperative Extension
Agriculture
Biology
Biology
Chesterfield County
VA Dept of Forestry
Cooperative Extension
Campus Safety Office

Agenda

- 1. Welcome and Introductions
- 2. Purpose of the Committee
 - Tree Campus USA (see appendix)
 - MS4 Operator
- 3. Discussion of committee membership and need for bylaws and/or formalization of membership selection process
- 4. Arbor Day Observance at Ettrick Elementary (April 25, 2014)
- 5. Tree Campus USA Application
- 6. Campus Tree Inventory (Frey, Baker)
- 7. Campus Tree Care Plan (Koci)
- 8. Other Business

Tree Campus USA Standards

National Arbor Day Foundation

http://www.arborday.org/programs/treeCampusUSA/standards.cfm#standard1

Standard 1 - Campus Tree Advisory Committee

A Campus Tree Advisory Committee comprised of members representing the diverse audience of those with a stake in campus trees is established and meets regularly.

This committee must include a representative from each of the following audience:

- Student (undergraduate or graduate).
- Faculty.
- Facility Management.
- Community for example city forester, municipal arborist, community tree board member.

Each individual campus may also have other interested student organizations, alumni, faculty, or staff that could be represented such as administration, sustainability coordinator, professor emeritus, etc.

While responsibility of the campus trees often ultimately lies with the campus forester, arborist, landscape architect, or designated facilities department, the Campus Tree Advisory Committee can assist in providing guidance for future planning, approval of a comprehensive campus tree plan, education of the campus population as to the benefits of the campus trees, and development of connectivity to the community.

Standard 2 - Campus Tree Care Plan

A Campus Tree Care Plan should be flexible enough to fit the needs and circumstances of the particular campus. The Tree Care Plan should be goal oriented and provide the opportunity to set good policy and clear guidance for planting, maintaining, and removing trees. It also provides education to the campus community, citizens, contractors, and consultants about the importance of the campus forest and the protection and maintenance of trees as part of the growth and land development process.

A Campus Tree Care Plan must include:

- Clearly stated purpose.
- Responsible authority/department who enforces the Campus Tree Care Plan.

- Establishment of a Campus Tree Advisory Committee, terms of the representatives, and role committee plays.
- Campus tree care policies for planting, landscaping, maintenance and removal including establishing and updating a list of recommended and prohibited species; managing for catastrophic events.
- Protection and Preservation policies and procedures include process for implementing tree
 protection plan including step-by-step process that every project must follow including
 construction and trenching.
- Goals and Targets develop at least one goal and target for your Campus Tree Plan. These could include (but are not limited to) tree canopy target, development of a link between the Campus Tree Plan and other green initiatives on campus or in the community; completion of a campus-wide tree inventory, etc. Include how the goal will be measured.
- Tree damage assessment enforcement, penalties, and appeals.
- Prohibited practices.
- Definitions of terminology related to campus trees.
- Communication strategy how the campus tree care plan will be communicated to the college community and contractors to heighten awareness about policies and procedures as well as the goals of the institution.

Both Georgia Tech and Virginia Tech have great examples of a comprehensive Campus Tree Care Plan. You may download PDFs of their documentation:

Standard 3 - Campus Tree Program with Dedicated Annual Expenditures

A college campus, to be designated a Tree Campus USA, must allocate finances for its annual campus tree program. Evidence should be shown that an annual work plan has been established and expenditures dedicated towards that work plan.

It is suggested, but not mandatory, that campuses work towards an annual expenditure of \$3 per full-time enrolled student.

Expenditures could include, but are not limited to:

- Cost of trees purchased
- Labor, equipment and supplies for tree planting, maintenance (pruning, watering, fertilization, mulching, competition control, etc.) and removal, if needed
- Value of volunteer labor (# of hours × \$18) and other contributions from student or civic organizations
- Staff time dedicated to campus forest planning, tree care contractors

- All associated costs of the campus tree management including:
 - o public education related to the campus forest;
 - o professional training;
 - o related association memberships (International Society of Arboriculture and local chapter, Society of Municipal Arborists, state urban forest council, etc.);
 - o campus tree inventory

Standard 4 - Arbor Day Observance

An Arbor Day observance provides a golden opportunity to educate the campus community to the benefits of the trees on their campus property and in the community. The Arbor Day observance can be on the campus or held in conjunction with the community where the campus is located. Your event may be held at an appropriate time for your campus.

Evidence - recording of date observance was held with attachment that includes program of activities, news coverage, and/or pictures.

Standard 5 - Service Learning Project

The Service Learning Project should be an outreach of the spirit of the Tree Campus USA initiative. This project should provide an opportunity to engage the student population with projects related to trees and can be part of a campus or community initiative. The project must be done within the course of the year application is submitted.

Project ideas include, but are not limited to:

- Volunteer tree plantings or tree maintenance
- Tree inventory (campus or community)
- Establish a Nature Explore Classroom for young children at an early childhood development center on your campus or in your community. Learn more about Nature Explore Classrooms.
- Establishment of campus arboreta
- Student-led effort to have community designated a Tree City USA
- Coordinate internships with the urban forestry or parks department in your community
- Assist Project Learning Tree or other programs centered around trees in training teachers at schools near your campus or organize training for your school's College of Education
- Other tree-related service learning or educational programs for students
- Partnership with state forestry departments on regional projects

Virginia State University Tree Care Plan

<u>Purpose</u>: The overall purpose is to provide an aesthetic, safe and a sustainable campus urban forest. The purpose will be accomplished by utilization of ANSI A. 300 and Z. 60 standards along with ISA's best management practices (BMPs) the following objectives will be satisfied.

- Ensure proper plant selection for the site.
- Ensure proper plant age diversity, by proper maintenance of the mature trees along with the maintenance of the younger trees.
- Ensure proper plant diversity by utilizing the Santamore rule of 10% species/20% genius/30% family.
- Ensure the protection of tree/plantings in construction site and staging area.
- Establish a response plan for the safe and timely cleanup of tree debris following a sudden weather event.
- Ensure the replacement of a tree when it has died or displaced due to pest infestation, construction activity, or weather.
- Ensure that ANSI A. 300 and ANSI Z. 60, along with ISA's best management practices are written into contracts.

Responsible Department: The Virginia State University Facilities Department (along with the UF Exten.) is/are responsible for the tree care plan.

The Campus Tree Advisory Committee is composed of

Campus Arboriculture Practices

Preface; Current woody plant maintenance emphasizes the need to look at plants in holistic manor. With this approach one considers all three organs (roots- stems- foliage) and how they need to work in unison so the plant is able to reach its full potential and reach its normal live span. Woody plants have a juvenal, mature and over mature life stage, and each period requires different maintenance procedures. For woody plants to obtain their full potential proper handling in the juvenal stage is very critical for complete proper development of the plant. Following is an outline of arboricultural practices that will enhance woody plants ability to reach its full potential.

1. Planting;

Proper installation of woody plants is the most important aspect for perpetuating the campus urban forest. Specs should be written into the contract to follow ISA BMP standards for installation.

2. Pruning;

Schedule of pruning will be defined by the plants location, age, Genus. The type of pruning to be performed will be written into the contract.

3. Cultural Practices;

Refers to proper mulching, fertilization and pest management.

4. Other Practices;

Removals, Storm damage response

5. Protection and Preservation;

To enhance tree survival due to construction activity a qualified assessor consulted at the DESIGN stage. This follows ANSI standards and ISA BMPs. Not all trees are savable but those that are can be identified, and the impact reduced.

6. Goals and Targets;

Tree inventory, Tree canopy survey, Landscape Master plan

7. Tree Damage Assessment, Enforcement and Penalties

This refers to contractors doing damage to trees/plantings during their activity, vandalism and other damage to vegetation.

8. Prohibited Practices

Bike locking to trees, Destruction of trees (Va. Code title18.2 chp.5, sec18.2)

9. Communication Strategy

Once adopted the Campus Tree Care Plan will be used by the University Architect, included with invitation to bid, and staff made aware of the tree care procedures.



WHY SHOULD MY SCHOOL PARTICIPATE?

Trees benefit the environment. They provide shade, protect us from the wind, and clean our air. . .



BUT YOUR CAMPUS CAN BENEFIT AS WELL:

- A commitment to trees on your campus can significantly reduce the amount of energy a campus, and community, needs to generate.
- Planting, and maintaining, trees on your campus and in the community reduces carbon dioxide in the atmosphere.
- Green spaces give students and faculty the setting to relax with others, or on their own.
- Involving students in service learning projects focusing on the planning, planting, and maintenance of trees on campus encourages their commitment to creating a more sustainable future for all.

being recognized as a Tree Campus USA® college, you will create a campus that not only helps to benefit and create a more sustainable environment, but instills pride in the students, faculty, and community.

Tree Campus USA colleges will receive the recognition materials below that can be showcased throughout the campus, as well as press releases to be distributed on campus and in the community.







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You are here: Home → Programs → Tree Campus USA → Summary of Standards

Tree Campus USA Summary of Standards

Your college campus can receive annual Tree Campus USA recognition by meeting five standards. Campuses meeting these standards will receive recognition materials to showcase their dedication to the campus environment.



The standards should be completed, and application submitted, by December 31 to be recognized as a Tree Campus USA college for that calendar year.

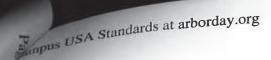
- Standard 1 Campus Tree Advisory Committee
- Standard 2 Campus Tree Care Plan
- Standard 3 Campus Tree Program with Dedicated Annual Expenditures
- Standard 4 Arbor Day Observance
- Standard 5 Service Learning Project

Apply now.

If you have specific questions about tree planting or maintenance, contact your local <u>Urban</u> <u>Forestry Coordinator</u> or <u>Arborist</u>.

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FAQ for Tree Campus USA

Standard 1: Establishment of a Campus Tree Advisory Committee



Does the Campus Tree Advisory Committee have to be a newly established committee, or if we already have one that has the same function, just a different name, can this be considered our Tree Advisory Committee?

As long as there is a committee that manages the implementation of your Tree Care Plan and has the required representatives (one member from the faculty, facilities department,

Page 3 of 6

established.

What are examples of meeting agendas for the Tree Advisory Committee?

If you have never met as a committee before, consider for your first meeting, gathering all the appropriate representatives simply to discuss the Tree Campus USA program and the goals that need to be achieved to receive the recognition within that calendar year.

Future meetings can be held to set targets for the following year, update your tree care plan, get feedback/advice from representatives about tree management issues, etc.

Is the Campus Tree Advisory Committee going to take decision-making authority away from the grounds or facilities departments?

No, the Campus Tree Advisory Committee is just that - advisory. This committee will provide valuable insights, support, and advice to grounds or facilities departments, which generally hold the decision-making authority when it comes to campus tree management.

"Describing the committee's value, Matt Gart, Campus Landscape Architect at Virginia Tech, focuses on their role as a resource for addressing landscaping issues. 'When we aren't certain of the best route, we ask for wisdom from the committee,' he says. 'For example, to remove a tree in today's climate, you need others to back you. They fulfill that role. They're also great reinforcement when you need backing for projects. I've discovered that, after I get their approval and approach administration for funding, we're much more likely to receive the financial support we've requested." - (Excerpt from the Professional Grounds Maintenance Society's September/October 2008 Forum newsletter. PP. 22-23)

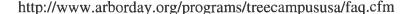
The Campus Tree Advisory Committee members and establishment date are already written on the main application page. Is more information needed about it in our Tree Care Plan?

Yes, it is important to establish your committee within the Tree Care Plan document, describe its role, which persons will be included in the committee, and the terms of the committee members. This component of the Tree Care Plan is often left out by colleges as they assume that since they listed the members under Standard 1 they do not need to address the committee again in the Tree Care Plan.

Standard 2: Evidence of a Campus Tree Care Plan

Can the Tree Care Plan be changed in the future?

Your Tree Care Plan can always be changed and should be reviewed and/or updated regularly. When applying for recertification, at the very least, the "Goals" section will need to be updated on a yearly basis. Every fifth year, a newly revised plan must be submitted.



We already have a Tree Care Plan. Do we have to make up a new one to meet all the specifications listed under Standard 2?

No, you do not have to create a new document, but all 10 of the components of a Tree Care Plan listed under Standard 2 must be included somewhere in the plan.

Do you have an example of a Campus Tree Care plan?

Yes, Virginia Tech's and Georgia Tech's Tree Care plans are available for download, below. Both plans characterize the purpose of this standard by establishing a document that can be used as a reference tool to educate individuals about the campus' tree care goals. Please do not copy and paste from these documents.

- Virginia Tech
- Georgia Tech

Standard 3: Dedicated Annual Expenditures

Does the Arbor Day Foundation have suggestions for how we could get more funds for tree-planting and management?

The Arbor Day Foundation strongly encourages you to work toward achieving Tree Campus USA recognition. Going through the process of organizing your campus' tree care and management plans clearly demonstrates to your administration, donors, and grantors that you have a plan and vision for your campus trees. The aforementioned groups will be more likely to fund projects for campuses that can directly illustrate how they will be using and caring for trees on their campus in the future.

If we become a Tree Campus USA college, will there be specific grant money made available to us that otherwise wouldn't be?

No specific grant money is available through the Arbor Day Foundation. It can only help you, though, when applying for grants through other organizations, to have the Tree Campus USA designation that recognizes your achievements of best tree management practices. Sometimes grant funding is available through state forestry departments. State Urban Forestry Coordinators can provide insight on any grants that may be available to your institution.

Standard 4: Involvement in an Arbor Day Observance

Does the Arbor Day observance have to be on Arbor Day?

No, you can organize an Arbor Day observance on a date that is most convenient for your campus.

Does the Arbor Day observance have to pertain only to trees or can it include other elements of the environment and community involvement in outdoor education?

The Arbor Day observance can include other elements of the environment and community involvement. For example, if you already have a yearly "Sustainability Week" and want to have an Arbor Day observance in conjunction with that event, that will fulfill the requirements for Standard 4.

Standard 5: Instituting a Service Learning Project

Do our service projects have to take place on our campus?

Service projects can be held off campus, but they should engage your own college students and take place within the local community.

Do we have to create a unique service project every year?

No, you can do the same service project every year.

Miscellaneous

If we have questions about specific trees on our campus, are there recommendations of whom we should call?

Yes, the Arbor Day Foundation always encourages you to get in touch with your local International Society of Arboriculture (ISA)-certified arborist or Urban and Community Forester since they live in your area and know the specifics of tree care and management for your community. For links to these contacts, visit our list of Urban Forestry Coordinators or the International Society of Arboriculture.

Tree Campus USA is an Arbor Day Foundation program sponsored in partnership with Toyota.





VSU Campus Tree and Stormwater Advisory Committee Meeting Minutes May 6, 2014

Introductions

Dr. Frey issued a brief welcome and purpose of the meeting, and the committee, representing University faculty, staff, students, contractors, state government, and adjacent local government conducted self-introductions.

Tree Campus USA discussion

- 1. The purpose of the Tree Campus USA committee is multi-fold and provides many benefits representing a broad ranges of interests including:
 - Aesthetics;
 - Security;
 - Campus Tree Health;
 - Stormwater and water quality benefits; and
 - Minimizing maintenance costs.
- 2. Dr. Frey provided a brief summary of the University's participation in an Arbor Day Observance at Ettrick Elementary School on April 25, 2014. 100 trees were planted.
- 3. A brief discussion the Tree Campus USA Application was had, and a consensus was reached that the University is very close to, or has met, each the five standards.
- 4. Dr. Frey and Angela Baker provided an informal presentation on the Tree Inventory standard and their progress. Ms. Baker discussed their methodology and answered questions. The group provided feedback on any additional data desired to be collected during the Tree Inventory process, as follows:
 - Size, including diameter at breast height (DBH), and crown
 - Condition
 - Potential hazardous limbs
 - Canopy coverage
 - Conflicts the group reached a consensus that any staking/guy wires found can be removed as they have likely been in place for the 9 month maximum.

Mr. Billy Pipp offered to provide/lend the Tree Inventory group a total of six reflective vests to use when conducting the Tree Inventory.

- 5. Joel Koci has prepared a Tree Care Plan that was disseminated to the group for review prior to the meeting, and it was established that he will be the responsible party/contact for the Tree Care Plan.
- 6. A fair amount of discussion was conducted revolving around the CPTED (Crime Prevention through Environmental Design) program, and the need to select appropriate vegetative species on campus so as to not hinder safety and sight lines.
- 7. It was recommended a Campus Walk be conducted by a sub-committee to communicate varying perspectives and prevent any potential conflicts of interest.
- 8. Information sharing some discussion was had on different sets of information that has been collected, established through various University activities, and it was determined that an added



benefit of the Committee is the opportunity to share relevant information and data for mutual benefit.

• MS4—Aislinn made a brief presentation on the University's MS4 including addressing the "Who, What, When, Where, and Why," to provide the Committee goals and objectives of the meeting as pertained to the MS4 Permit, MCM#1. Specifically, Aislinn expressed a desire for the committee to establish some ideas regarding high priority water quality issues on campus and associated target audiences, as well as means and methods to distribute a stormwater relevant message.

Public Education and Outreach on Stormwater Impacts

The group performed a brainstorming activity and identified the four following high priority water quality issues with associated target audiences and potential strategies to develop the University's Stormwater Education and Outreach Program:

- Reduce runoff from development on campus/address poor quality receiving waters and/or degraded streams
 - Rationale: The University is presently implementing a Campus-wide Master Plan and desires to minimize its development impact on the hydrologic cycle
 - Target Audience/Population Size: Professional A/E Community conducting Designs on Campus
 - Means and Methods: Stormwater Management Plan, Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management, Campus Design Guidelines incorporating the Tree Care Plan specifications.

2. Litter and Recycling

- Rationale: The University strives to reduce litter into storm sewer systems on campus and adjacent receiving waters and promote the recycling program
- Target Audience/Population Size: Department of Agriculture student population
- Means and Methods: Activities conducted in the Natural Resource Management and Urban Natural Resource Management classes
 - Storm drain marking
 - Stormwater management facility tours
 - Guest speakers

3. Illicit Discharges

- Rationale: The Food Service workers need educated on proper disposal of Fats, Oil and Grease and good housekeeping and pollution prevention measures
- Target Audience/Population Size: Food Service Workers
- Means and Methods: Fact sheets disseminated annually, education signage/posters posted in prominent location.
- 4. Student and Faculty Stormwater Education Outreach
 - Rationale: Overcome the challenge of communicating with students who may not regularly seek out environmental information (i.e., Honors students, Ag and Biology Students, Natural Resource students)
 - Target Audience/Population Size: Students and Faculty interested in Student Affairs



Means and Methods: Distribute educational materials and/or conduct annual stormwater presentation at a minimum of one Town Hall event per year.

• Public Involvement & Participation

The committee did not specifically choose four public participation activities from the list of activities previously defined below and included in the agenda, but did add new activities to the list (bold):

- Earth Day at Ettrick Elementary
- o Campus-wide or possibly Facilities/Capital Outlay Earth Day Event
- Fort Lee's Annual Earth Day
- o Tree Campus USA Program
- o Farm Vegetable Pick
- Opportunities with other MS4s, like the rain barrel workshop and Chesterfield Sustainability
 Committee
- Kid's Tech University Event
- Classroom guest speakers that focus on stormwater
- Arbor Day The University recently participated in Arbor Day activities at Ettrick Elementary and planted 100 trees
- Tree Inventory

Action Items

The following list of action items was generated during the Committee Meeting:

- Aislinn will summarize the Post-it Board Easel Pad notes in minutes for the Committee;
- o Committee members will follow up with each other and share relevant data/information;
- Committee members will volunteer for appropriate sub-committees as follows:
 - An educational activity sub-committee to review and formalize the Stormwater Education and Outreach Plan.
 - A Campus-Walk sub-committee interested in providing biological and CPTED guidance for the Tree Campus USA standard development.
- o The Tree Care Plan will be incorporated into University Design Guidelines;
- The next VSU Campus Tree and Stormwater Advisory Committee meeting will likely be scheduled for late summer, prior to the start of the fall semester.

Amelia Wehunt

From: Aislinn Creel

Sent: Tuesday, November 05, 2013 11:43 PM

To: Amelia Wehunt
Cc: Andrew Gould
Subject: FW: Rain Barrels

Amelia,

Darryl forwarded me a couple of other emails, but this one is very useful. VSU has a professor (Dr. Witiak) who is getting grant money and instigating public outreach for rain barrel workshops. I suggest we find a way to bring her and her colleagues in Facilities Management to work toward a common goal, at least regarding MCMs 1 and 2, if nothing else.

Thanks, Aislinn

-----Original Message-----

From: Darryl Walker [mailto:dwalker@petersburg-va.org]

Sent: Tuesday, November 05, 2013 11:13 AM

To: Aislinn Creel

Subject: FW: Rain Barrels

FYI - here's the specifics of the other grant I was referring to with VSU. More on this to follow.

----Original Message-----

From: Sarah M. Witiak [mailto:switiak@vsu.edu]

Sent: Friday, August 23, 2013 11:01 AM

To: Darryl Walker Subject: Rain Barrels

Hello Darryl,

I am getting the grant proposal together for the rain barrel workshop. We have up to 4000 available, which I think we should spend as much as possible on the barrels. I have some calls out to see who will give us a deal on the barrels in bulk.

In the meantime, here are some tasks that we will have to do/explain in the proposal. Any places where you can offer help/direction will be great. I think we have a good shot at getting it from my conversations with people on campus.

Short background on stormwater in Petersburg and importance of community education Role of rain barrels in sw mgmt.

how we will do the program:

I have spoken to some other folks, and they suggested 3 short (15-20 min) speakers - a powerpoint for a general overview of options, a panel discussion, and maybe a local watershed person. There is someone in ag who may be able

to help with one of these, you might be able to do one, and so if you know someone else who is a good speaker, let me know. We should probably also have a demonstration of how to install/use/maintain the barrel.

Have students help people figure out area/volume drained on site after presentations - we can train them I think, and can use google earth perhaps?

we need to have a site for the workshop - train station? If the city can donate the space ,that would be great.

Paper/printing - maybe send every attendee with a copy of your credit manual that is on the web?

10\$ registration fee - important so that people actually show up. More than one person from the family can come on a single fee, but they only get 1 barrel per fee. The registration fee could be used to help cover paper costs if needed or into publicity. Might ask them to bring info about their house (gutter position etc)

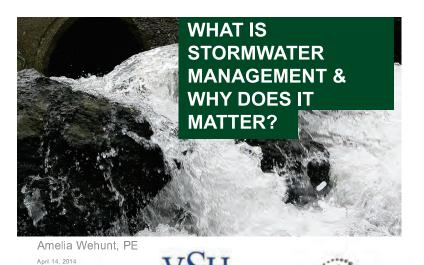
Publicity - I know the paper best, but you might have more/better suggestions (churches? TV? Radio?)

We will need a letter of support from the city for the grant (due sept 15 I think)

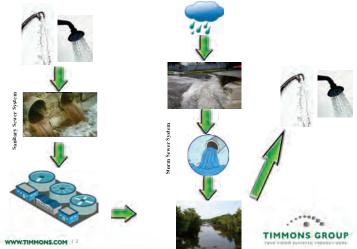
Smiles, Sarah Melissa

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Wastewater, Stormwater, & Drinking Water



Pollutants in Stormwater

- ✓ Polluted stormwater runoff has many adverse effects on plants, fish, animals, and people!
- ✓ Common Stormwater Pollutants:
 - Sediment

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- Excess nutrients from fertilizers (nitrogen & phosphorus)
- Bacteria
- Debris and trash
- Hazardous wastes such as pesticides or herbicides
- Petroleum products from vehicles and parking
- Deicing materials
- Thermal pollution



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What is an MS4?

- ✓ Municipal separate storm sewer system
- ✓ Storm sewer pipes are not connected to sanitary sewer pipes
- ✓ An MS4 can be:
 - Cities or counties
 - Colleges or Universities
 - Correctional facilities
 - Hospitals
 - Military Bases



VSU is an MS4!



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Example of an MS4

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What Does an MS4 Operator Do?

- Public Outreach and Education
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff
- Post-Construction Stormwater Management
- Pollution Prevention/Good Housekeeping



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MCM 1: Public Outreach and Education

✓ This MCM requires regulated small MS4s to develop and implement a program that promotes awareness of pollution prevention techniques and engagement with local watershed quality.



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MCM 2: Public Involvement/Participation

✓ This MCM requires regulated small MS4s provide opportunities for the public to play an active role in both in both the development and implementation of the program.





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MCM 3: Illicit Discharge Detection & Elimination

- ✓ Illicit discharges enter the system through two avenues:
 - Direct Connections
 - Wastewater piping either mistakenly or deliberately connected to the storm drains
 - Indirect Connections
 - Infiltration into the MS4 from cracked or damaged sanitary systems
 - Spills collected by drain inlets
 - Paint, used oil, or other pollutants dumped directly into a drain
- ✓ Once an illicit discharge is identified and/or detected, the source must be eliminated!

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MCM 4: Construction Site Stormwater Runoff Control

- ✓ Ensures that sediment and pollutants from construction activities do no enter the storm sewer system
- √ Examples:
 - Construction entrance
 - Silt fence
 - Matting/Mulching
 - Storm drain inlet protection







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MCM 5: Post-Construction Stormwater Management

- ✓ Requires the operator of the regulated small MS4 to develop, implement, and enforce a program to enforce a program to reduce post-construction runoff to their storm sewer
- ✓ Includes a combination of structural and non-structural BMPs
- ✓ Some common structure BMPs include:
 - Detention ponds
 - Retention ponds
 - Bioretention
 - Green parking
 - Proprietary BMPs

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MCM 6: Pollution Prevention & Good Housekeeping

- Requires the small MS4 operator to examine and alter their own actions to help ensure reduction in the amount and type of pollutant
 - Collect on streets, parking lots, open spaces, and storage and vehicle maintenance areas
 - Results from actions such as environmentally damaging land development and flood management practices
- Common pollution prevention & good housekeeping practices:
 - Street sweeping
 - Maintaining storm inlets
 - Protecting equipment
 - Disposing of waste

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How does an MS4 Program Impact Water Quality?



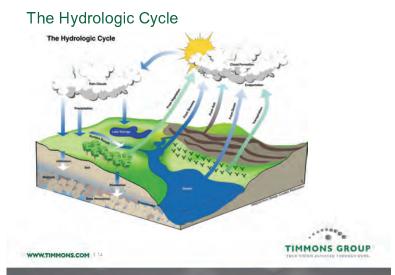
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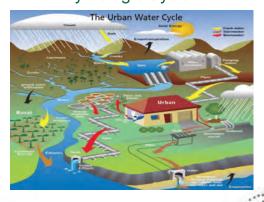




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Development & Urbanization Affect the Hydrologic Cycle!









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Waters?

- ✓ Responsible water use and waste disposal
- ✓ Education of others on the importance of water quality

What Can We Do About Protecting Our

✓ Best Management Practices (BMPs)

Did you know?

There is a retention basin BMP located behind the Jesse B.
Bolling Building



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Before Construction of the Retention Pond



After Construction of the Retention Pond



Questions?



MS4 Programs ultimately serve to protect our waterways and ensure that water bodies are safe for recreation, aquatic life, and also to ensure safe drinking water for all of us!

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Craphic/Photo References http://www.cdarhills.org/utilities/storm-water http://inccwep.org/stormwater/ http://inccwep.org/stormwater/ http://inccwep.org/stormwater/ http://inccwep.org/stormwater/ http://inccwep.org/stormwater/ http://inccwep.org/stormwater/ http://inccwep.org/stormwater/ http://inccwep.org/stormwater/ http://inccwep.org/stormwater.org/org/stormwater-management/ http://inccwep.org/stormwater.org/stormwater-management/ http://inccwep.org/stormwater-management/ http://incc

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Appendix MCM 3



VIRGINIA STATE UNIVERSITY

POST OFFICE BOX 9414 PETERSBURG, VIRGINIA 23806

Capital Outlay

Phone (804) 504-7500 Fax (804) 524-5383

September 10, 2014

Virginia Department of Transportation c/o Roy T. Mills, State Stormwater Program Administrator 1401 E. Broad Street Richmond, VA 23219

Subject: MS4 Permit; Notice of Potential Interconnected Stormwater Systems

Attention: MS4 Permit Manager

Virginia State University (VSU) is a Phase II small MS4 and is covered under the Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer System (Registration Number VAR040119).

The purpose of this letter is to notify you of the potential for interconnections between the stormwater systems operated by VSU and the stormwater systems that you operate. The MS4 permit requires that VSU notify in writing, any downstream regulated MS4 to which VSU is physically interconnected. There is no action required on your part at this time, as this letter is for notification purposes only.

If you have questions or desire additional information related to this subject, please contact me at 804-504-7500 or jataylor@vsu.edu.

Sincerely,

Jonathan Taylor

MS4 Program Administrator

foth I we

Virginia State University



Capital Outlay Facilities PO Box 9044 Virginia State University, VA 23806

Phone: (804)524-3971

Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:	1122 1122		
	7/30/14 E Gallagher	Photo #'s: 431,432,433			
	C. Chadope	11			
	a li bli	Pipe Material			
	End of Pipe Diameter: 2.4 ++	Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other:			
	Other:	Other			
Date of Last Rainfall		Estimated Discharge Rate			
7/27/14		Estillated Discharge Nate			
Weather Information	0.08				
Table and the control of the control			Vi Ob		
http://www.wunderg	round.com/history/airport/KRIC/2014	Tel B	Visual Observations		
	Outfall Submerged? Y (N)	Flow Present ?	Y		
	If yes, (Circle):	Width of Water Su	rface .4		
	Water:	Approximate Depti	h of Water (ft.): 0.02		
	Fully	Approximate Flow	Velocity (ft./s):		
	Partially	Approximate Flow	Rate (cfs):008		
	Sediment:	Flow Color/Clarity	(Check all that apply):		
	Fully	(Clear)			
	Partially	Muddy			
Fin din an	Debris Around Outfall (Check all that apply		Milky		
Findings	None	Sheen			
	Sediment	Soapy Foam			
	Trash				
	Other:	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	all that apply):		
	None	(None)			
	Sediment	Petroleum	1		
	Trash	Sewage			
	Other:	Other:			
	other.	Floatables	Y/(Ñ)		
	Visual Observations (Circle)	Deposits/Stains	V/6		
		Deposits/Stains	17/8		
	0 11				
	Describe				
	Vegetation Condition (Circle)	Excessive	Inhibited		
	regeration container (circle)	ENCOSSIVE			
	Describe	None			
		140110			
	Dia - Candida - (Ciralia)	Good Fair	Da an		
	Pipe Condition (Circle)	Good Fair	Poor		
	2/2/20				
	Describe				



Virginia State University, VA 23806

		-		
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bran	ch	
Notes/Necessary Action:	1			
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit di Signature of Inspector	scharge is evident a	at this time.	 0/14	
If illicit discharge investigation is required, provide a time frame for	investigation comp	oletion:		
Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation.	de date, time, and	actions. Int	ermittent discl	narges require
Upon illicit discharge elimination, re-inspect and certify the following	ng:			
"I certify that the illicit discharge has been eliminated, documented	, and that no addit	ional action	is necessary a	t this time."
Signature of Inspector		Date		
Next inspection date:				



Virginia State University, VA 23806 Phone: (804)524-3971

Fax: (804)524-5383

Outfall ID # 2	Inspection, Date: Inspector:	Photo #'s: 1100 1101 1102 1102			
	7 30 14 E Gallouine	Photo #'s: 435, 436, 437,			
	C. Charbe				
	End of Pipe Diameter: 1.25	Pipe Material			
	Ella di Fipe Diameter. 1.23	Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other: HDPE			
	Other:				
Date of Last Rainfall	Quantity of Last Rainfall (in.) Esti	mated Discharge Rate			
712714	0.08				
Weather Information Car					
http://www.wundergrou	ind.com/history/airport/KRIC/2014	Visual Observations			
	Outfall Submerged? Y N	Flow Present ? Y (N)			
	If yes, (Circle):	Width of Water Surface			
	Water:	Approximate Depth of Water (ft.):			
	Fully	Approximate Flow Velocity (ft./s):			
	Partially	Approximate Flow Rate (cfs):			
	Sediment:	Flow Color/Clarity (Check all that apply):			
	Fully	Clear			
	Partially	Muddy			
Findings	Debris Around Outfall (Check all that apply):	Milky			
Filldings	None'	Sheen			
	Sediment	Soapy Foam			
	Trash				
	Other:	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply): None			
	None				
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
	Visual Observations (Circle)	Floatables Y/N			
	Visual Observations (Circle)	Deposits/Stains Y/N			
	Describe				
Vegetation Condition (Circle)		Excessive Inhibited			
	Describe	None			
	Beschie	10010			
	Pipe Condition (Circle)	Good Fair Poor			
	Describe				



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleet	IS Bra	nch	
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit dispector Signature of Inspector If illicit discharge investigation is required, provide a time frame for		7 30 Date	14	
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.			ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the followin	g:			
"I certify that the illicit discharge has been eliminated, documented,	, and that no ac	lditional action	is necessary a	at this time."
Signature of Inspector		Date		
Next inspection date:				



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID# 3	Inspection Date: Inspector:	Photo #'s:	11111		
	730 14 E Gallagh		444		
	C. Chara	ell			
	End of Pipe Diameter: 1.51	Pipe Material			
	End of Pipe Diameter: 1.5	Concrete			
Outfall	Circular	PVC			
Description	(fliptical)	Steel			
	Box				
	Other:	Other:			
Date of Last Rainfall		mated Discharge Rate			
7 27 14	O D8	nated Discharge Nate			
Weather Information Car					
	_		V: 101		
nttp://www.wundergrou	and.com/history/airport/KRIC/2014	Isl a 12	Visual Observations		
	Outfall Submerged? Y N	Flow Present ?	Y (N)		
	If yes, (Circle):	Width of Water Surfa			
	Water:	Approximate Depth of	of Water (ft.):		
	Fully	Approximate Flow Ve	elocity (ft./s):		
	Partially	Approximate Flow Ra	ite (cfs):		
	Sediment:	Flow Color/Clarity (Cl			
	Fully	Clear			
	Partially	Muddy			
Fin din	Debris Around Outfall (Check all that apply):		Milky		
Findings	None		Sheen		
	Sediment	Soapy Foam			
	Trash	Soapy I call			
	Other: LLAVES	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):			
	None	None None	шасарріу).		
	(Sediment)	Petroleum			
	Trash				
	Other: Vavec	Sewage			
	other: 19000 VS	Other:	1 460		
	Visual Observations (Circle)	Floatables	YAN		
		Deposits/Stains	Y(N)		
	Describe				
	Vegetation Condition (Circle)	Excessive	Inhibited		
	vegetation condition (circle)	Excessive	inmbited		
	Describe				
	Pipe Condition (Circle)	Good Fair	Poor		
	Describe				



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Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bran	ch	
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit dis Signature of Inspector If illicit discharge investigation is required, provide a time frame for	Ш	7 30 Date	14	
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.			ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the following	g:			
"I certify that the illicit discharge has been eliminated, documented,	and that no additi	onal action	is necessary a	it this time."
Signature of Inspector		Date	_	
Next inspection date:				



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:			
	130114 E. Gallaun	440, 441, 442, 443			
	C. Chapte				
	End of Pipe Diameter: 4.5	Pipe Material			
	Etid of Pipe Diameter, 1, 5	Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other:			
	Other:				
Date of Last Rainfall	Quantity of Last Rainfall (in.) Estin	nated Discharge Rate			
7/27/14	0.08				
Weather Information Ca	_				
http://www.wundergro	und.com/history/airport/KRIC/2014	Visual Observations			
	Outfall Submerged? Y (N ³)	Flow Present ?			
	If yes, (Circle):	Width of Water Surface			
	Water:	Approximate Depth of Water (ft.): 0 - 0 -			
	Fully	Approximate Flow Velocity (ft./s): 0.7.5			
	Partially	Approximate Flow Rate (cfs): 0.0075			
	Sediment:	Flow Color/Clarity (Check all that apply):			
	Fully	(Clear)			
	Partially	Muddy			
Findings	Debris Around Outfall (Check all that apply):	Milky			
i mamba	None	Sheen			
	Sediment	Soapy Foam			
	Trash				
	Other:	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):			
	None	(None)			
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
	Visual Observations (Circle)	Floatables Y(N)			
	Visual Observations (entire)	Deposits/Stains Y/N3			
	Describe				
	Vegetation Condition (Circle)	Excessive Inhibited			
	Describe				
	Pipe Condition (Circle)	Good Fair Poor			
	Describe				



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Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bhan	Ch	
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit di Signature of Inspector		at this time." 130	14	
If illicit discharge investigation is required, provide a time frame for	r investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation.	de date, time, and	actions. Inte	ermittent disch	arges require
Upon illicit discharge elimination, re-inspect and certify the following	ng:			
"I certify that the illicit discharge has been eliminated, documented	d, and that no addi	tional action	is necessary at	this time."
Signature of Inspector		Date		
Next inspection date:				



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Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 5	Inspection Date: Inspector:	Photo #'s:			
	7/30/14 E Gallauhe	450,451			
	C. Charles				
	End of Pipe Diameter: 1.251	Pipe Material Concrete			
Outfall	Circular	PVC			
Description		Steel			
Description	Elliptical				
	Box	Other:			
D-t	Other:				
Date of Last Rainfall		ated Discharge Rate			
1121114	0.08				
Weather Information Ca					
http://www.wundergro	und.com/history/airport/KRIC/2014	Visual Observations			
	Outfall Submerged? Y N	Flow Present ?			
	If yes, (Circle):	Width of Water Surface W.O. 4			
	Water:	Approximate Depth of Water (ft.): (). ()			
	Fully	Approximate Flow Velocity (ft./s):			
	Partially	Approximate Flow Rate (cfs): 0.002			
	Sediment:	Flow Color/Clarity (Check all that apply):			
	Fully	Clear			
	Partially	Muddy			
Fig. dia aa	Debris Around Outfall (Check all that apply):	Milky			
Findings	None	Sheen			
	Sediment	Soapy Foam			
	Trash				
	Other:	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):			
	None	None Votes (check dir that apply).			
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
		Floatables Y			
	Visual Observations (Circle)	Deposits/Stains Y(N)			
		Deposits/Stails 1(1)			
	Describe				
	Describe				
	Vegetation Condition (Circle)	Excessive Inhibited			
	Describe				
	Describe				
	Pipe Condition (Circle)	Good ') Fair Poor			
	Describe				



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Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bra	nch	
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit di		at this time.	11	
_ EUM E GJallepayu	w	1/30	114	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for	investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to inclu- three separate investigation with the appropriate documentation.	de date, time, and	actions. Into	ermittent disc	charges require
Upon illicit discharge elimination, re-inspect and certify the following	ng:			
"I certify that the illicit discharge has been eliminated, documented	l, and that no addi	tional action	is necessary	at this time."
Signature of Inspector		Date		



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall Description End of Pipe Diameter: 2.5 End of Pipe Diameter: 2.5 Concrete PVC Steel Box Other:	Outfall ID#	Inspection,Date:	Inspector:	Pho	to #'s:	110	
Outfall Description End of Pipe Diameter: Outfall Description Elliptical Box Other: Date of Last Rainfall Outfall Submerged? If yes, C(circle): Water: Fully Partially Partially Partially Findings Pipe Material Concrete PVC Steel Box Other: Other: Other: Other: Other: Pipe Material Concrete PVC Steel Box Other:					41	+ W	
Outfall Description End of Pipe Diameter: 2.51 Pipe Material Concrete		1.4.					
Outfall Description Circular PVC Steel		End of Dine Diameter	0 -11		Material		
Outfall Elliptical Steel Box Other:		End of Pipe Diameter		一 又	Concrete		
Box Other: Other: Date of Last Rainfall Quantity of Last Rainfall (in.) Date of Last Rainfall Quantity of Last Rainfall (in.) Partially Partially Partially Pobris Around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that appl	Outfall	Circular					
Other: Quantity of Last Rainfall (in.) Weather information Can Be Found @: Nutrp://www.wunderground.com/history/airport/KRIC/2014 Visual Observations Outfall Submerged?	Description	Elliptical			Steel		
Other: Quantity of Last Rainfall (in.) Estimated Discharge Rate 121 4		Вох		Oth	er:		
Weather Information Can Be Found @: http://www.wunderground.com/history/airport/KRIC/2014 Duffall Submerged? Y N If yes, (Circle): Water: Fully Approximate Depth of Water (Itt): O Sediment: Fully Partially Clear Partially Clear Findings Findings Debris Around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Trash Other: Debris in Pipe (Check all that apply): None Sedimen		Other:					
Weather Information Can Be Found @: http://www.wunderground.com/history/airport/KRIC/2014 Outfall Submerged? N Flow Present? Width of Water Surface Approximate Depth of Water (it.):	Date of Last Rainfall	Quantity of La	st Rainfall (in.)	Estimated Dis	charge Rate		
Inttp://www.wunderground.com/history/airport/kRIC/2014 Outfall Submerged? Y N	7/27/14	Ω.	08				
Outfall Submerged? If yes, (Circle): Water: Fully Partially Partially Partially Partially Partially Partially Pobers Around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris around Outfall (Check all that apply): None Sediment Trash Other: Debris on Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Describe Visual Observations (Circle) Describe Vegetation Condition (Circle) Describe Excessive Inhibited	Weather Information C	an Be Found @:				1	
If yes, (Circle): Water: Fully Partially Sediment: Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris dround Outfall (Check all that apply): None Sediment Trash Other: Debris around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Describe Visual Observations (Circle) Deposits/Stains Visual Observation (Circle) Describe	http://www.wundergro	und.com/history/airport/	KRIC/2014			Visual Ol	oservations
Water: Fully Partially Sediment: Fully Partially Debris Around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Describe Visual Observations (Circle) Describe Vegetation Condition (Circle) Excessive Inhibited				Flov	v Present ?	(Y)	
Water: Fully Partially Sediment: Fully Partially Debris Around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Describe Visual Observations (Circle) Describe Vegetation Condition (Circle) Excessive Inhibited		_		Wic	lth of Water S	urface	24
Fully Partially Sediment: Fully Partially Approximate Flow Velocity (ft./s): Flow Color/Clarity (Check all that apply): Pully Partially Partially Approximate Flow Velocity (ft./s): Plow Color/Clarity (Check all that apply): Partially Papproximate Flow Velocity (ft./s): Plow Color/Clarity (Check all that apply): Pother: Pother: Petroleum Petrol				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1): O.
Findings Partially Sediment: Fully Partially Debris Around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Debris in Pipe (Check all that apply): None Sediment Trash Debris in Pipe (Check all that apply): None Sediment Trash Describe Visual Observations (Circle) Describe Vegetation Condition (Circle) Excessive Inhibited		Fully		1000			-
Findings Findings Debris Around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Other: Debris in Other: Visual Observations (Circle) Describe Vegetation Condition (Circle) Flow Color/Clarity (Check all that apply): Muddy			k () let	1000000			005
Fully Partially Debris Around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Visual Observations (Circle) Describe Vegetation Condition (Circle) Findings Clear Muddy Muddy Milico Muddy Debris (Clear Muddy Milico Muddy Debris (Check all that apply): None Sediment Petroleum Sewage Other: Floatables Deposits/Stains Visual Observations (Circle) Describe Vegetation Condition (Circle) Excessive Inhibited		Sadiments Of	reny				0.03
Partially Debris Around Outfall (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Visual Observations (Circle) Deposits/Stains Visual Observation (Circle) Vegetation Condition (Circle) Excessive Inhibited						(Check all tha	с арріу):
Petroleum Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Describe Visual Observations (Circle) Deposits/Stains Vegetation Condition (Circle) Excessive Inhibited		Partially		Total Control			
None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Visual Observations (Circle) Describe Vegetation Condition (Circle) Describe None Sediment Trash Sewage Other: Visual Observations (Circle) Describe None Sediment Flow Odor (Check all that apply): None Sewage Other: Visual Observations (Circle) Describe None Sewage Other: Visual Observations (Circle) Describe None Sewage Other: Visual Observations (Circle) Describe None Sewage Other: None Sewage Other: Floatables Deposits/Stains Visual Observations Visual Observations Describe							
Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Sewage Other: Visual Observations (Circle) Describe Vegetation Condition (Circle) Excessive Inhibited	Findings						
Trash Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Visual Observations (Circle) Describe Vegetation Condition (Circle) Describe Other: Flow Odor (Check all that apply): None Petroleum Sewage Other: Petroleum Sewage Other: Petroleum Sewage Other: Deposits/Stains VIN Describe Excessive Inhibited							
Other: Debris in Pipe (Check all that apply): None Sediment Trash Other: Visual Observations (Circle) Describe Other: Vegetation Condition (Circle) Describe Other: Floatables Deposits/Stains Vatev, pooled at pip Vegetation Condition (Circle) Excessive Inhibited				500	Soapy roam		
Debris in Pipe (Check all that apply): None Sediment Trash Other: Visual Observations (Circle) Describe Vegetation Condition (Circle) Describe Elow Odor (Check all that apply): None Petroleum Sewage Other: Deposits/Stains VIN Describe Excessive Inhibited				Oth	er:		
None Sediment Trash Other: Visual Observations (Circle) Describe Vegetation Condition (Circle) None Petroleum Sewage Other: Floatables Petroleum Sewage Other: Floatables Petroleum Sewage Other: Floatables Deposits/Stains VIN Describe Excessive Inhibited			all that applyly	Clay	u Odor (Chool	all that anniul	
Sediment Trash Other: Visual Observations (Circle) Describe Other: Vegetation Condition (Circle) Describe Petroleum Sewage Other: Floatables Deposits/Stains VIN Describe Excessive Inhibited			all that apply).			all that apply)	
Trash Other: Visual Observations (Circle) Describe Vegetation Condition (Circle) Sewage Other: Floatables Deposits/Stains Visual Observations (Circle) Floatables Deposits/Stains Visual Observations (Circle) Describe Excessive Inhibited							
Other: Visual Observations (Circle) Deposits/Stains Describe Vegetation Condition (Circle) Describe Other: Floatables Deposits/Stains Visual Observations (Circle) Describe Excessive Inhibited							
Visual Observations (Circle) Deposits/Stains Describe Vegetation Condition (Circle) Floatables Deposits/Stains Visual Observations (Circle) Describe Excessive Inhibited		The state of the s			_		
Describe Milk Water, pooled at pip Vegetation Condition (Circle) Excessive Inhibited Describe		Other,					v(Q)
Describe MIK Water, pooled at pip Vegetation Condition (Circle) Excessive Inhibited Describe		Visual C	bservations (Circle)				VAC
Vegetation Condition (Circle) Excessive Inhibited Describe							
Vegetation Condition (Circle) Excessive Inhibited Describe			Describe	MIKY	water.	pooled	at pipe,
Describe					,		1.70
		Vegetatio	n Condition (Circle)	Exce	ssive	Inh	ibited
Pipe Condition (Circle) Good Fair Poor			Describe				
		Pip	e Condition (Circle)	Good	Fair	Poor	
9							
Describe			Describe				



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bra	nch	
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit of the following: Signature of Inspector		at this time 7/30/	 14	
If illicit discharge investigation is required, provide a time frame for	or investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to incitor three separate investigation with the appropriate documentation		actions. In	termittent di	scharges require
Upon illicit discharge elimination, re-inspect and certify the follow	ving:			
"I certify that the illicit discharge has been eliminated, documente	ed, and that no addit	ional action	is necessary	at this time."
Signature of Inspector		Date	_	



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s: 11 Fm	454, 455, 456		
	7/30/14 E.Gallagher	453,	454, 455, 45W		
	C. Chappel				
	Ford of Direc Discourses O 51	Pipe Material	1		
	End of Pipe Diameter: 0.5	Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other: HDPF	2		
	Other:				
Date of Last Rainfall		timated Discharge Rate			
7/27/14	0.08		71		
Weather Information Car					
	nd.com/history/airport/KRIC/2014		Visual Observations		
1,7,	Outfall Submerged? Y N	Flow Present ?	Y (N')		
	If yes, (Circle):	Width of Water Sur	face		
	Water:	Approximate Depth	The state of the s		
	Fully	Approximate Flow			
	Partially	Approximate Flow F			
	Sediment:		Flow Color/Clarity (Check all that apply):		
	Fully	Clear			
	Partially		Muddy		
Findings	Debris Around Outfall (Check all that apply):	-	Milky		
	None	Sheen			
	Sediment Soapy Foam				
	Trash Other:Other:				
	Other: William (Charles Abel a grafe)	rio.llcll	u de X		
	Debris in Pipe (Check all that apply): None		Flow Odor (Check all that apply): None		
	Sediment				
			Petroleum Sewage		
	Trash Other: MUCh				
	other: NOTOCICAL	Other:	1 200		
Visual Observations (Circle)		Floatables Y/N			
		Deposits/Stains	Y(N)		
	Dannika	- 1 0 .1 0			
	Describe	Pipe trul of	mulch		
		110 10.01.01			
	Vegetation Condition (Circle)	Excessive	Inhibited		
	Describe				
		_			
	Pipe Condition (Circle)	Good Fair	Poor		
	· ipe condition (entire)	1 1 1 1	, 001		
	Describe				
	Describe		T.A.I.		



Capital Outlay Facilities PO Box 9044 Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Brani	Ch Ch	
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit di	ischarge is evident a	at this time.		
Signature of Inspector	<i>V</i>	1 30 Date	4	
If illicit discharge investigation is required, provide a time frame for	r investigation com			
Document all steps utilized to eliminate the illicit discharge to incluthree separate investigation with the appropriate documentation.			ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the followi	ng:			
"I certify that the illicit discharge has been eliminated, documented	d, and that no addit	ional action	is necessary a	t this time."
Signature of Inspector		Date		
Next inspection date:				



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 🕰	Inspection Date: Inspector:	Photo #'s:
0	7/30/14 E Gallag	her 458, 459, 440, 441
	C. Chase	ell
	End of Diag Discustors 175111	Pipe Material
	End of Pipe Diameter: 1. 15	Concrete
Outfall	Circular	PVC
Description	Elliptical	Steel
Box Other:		Other:
		otici
Date of Last Rainfall		Estimated Discharge Rate
7/27/14	0.08	Estimated bischarge Nate
Weather Information C		
	ound.com/history/airport/KRIC/2014	Visپ ra l Observations
intep.//www.wandergre	Outfall Submerged? Y	Flow Present ? Y N
	If yes, (Circle):	Width of Water Surface . 3
		~
	Water:	
	Fully	Approximate Flow Velocity (ft./s): 0. 25
	Partially	Approximate Flow Rate (cfs): 0.00023
	Sediment:	Flow Color/Clarity (Check all that apply):
	Fully	Clear
	Partially	Muddy
Findings	Debris Around Outfall (Check all that appl	
1 11141163	None	Sheen
	Sediment	Soapy Foam
	Trash	
	Other: Leaves	Other:
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):
	None	None
	Sediment	Petroleum
	Trash	Sewage
	Other: Lewes vegetato	Other:
		Floatables Y/N
	Visual Observations (Circle)	Deposits/Stains
		Deposits/Stairis
	Describe	Codin 1011 1 biles
	Describe	Sediment in pipe
	Vegetation Condition (Circle)	Excessive Inhibited
	Describe	
	Pipe Condition (Circle)	Good Fair Door
	Pipe Condition (Circle)	(Good) Fair Poor
	Describe	



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bran	ich	
Notes/Necessary Action:	1, 10000			
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit Signature of Inspector	discharge is evident a	at this time. 7 30 Date	 <u> 1</u> 4	
If illicit discharge investigation is required, provide a time frame f	or investigation comp	oletion:		
Document all steps utilized to eliminate the illicit discharge to inc three separate investigation with the appropriate documentation		actions. Int	ermittent discl	narges require
Upon illicit discharge elimination, re-inspect and certify the follow	wing:			
"I certify that the illicit discharge has been eliminated, document	ed, and that no additi	ional action	is necessary a	t this time."
Signature of Inspector		Date	-	
Next inspection date:				



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:		
	7/30/14 E.Gallaghe			
	C. Charles			
	End of Pipe Diameter: 31	Pipe Material		
	End of Pipe Diameter:	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Вох	Other:		
	Other:			
Date of Last Rainfall		timated Discharge Rate		
7/27/14	0.08			
Weather Information Ca				
http://www.wundergro	und.com/history/airport/KRIC/2014	Visual Observations		
	Outfall Submerged? Y (N)	Flow Present ? Y N		
	If yes, (Circle):	Width of Water Surface		
	Water:	Approximate Depth of Water (ft.):		
	Fully	Approximate Flow Velocity (ft./s):		
	Partially			
	Sediment:	Approximate Flow Rate (cfs):		
	1	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Partially Debris Around Outfall (Check all that apply):	Muddy		
Findings	None	Milky Sheen		
	Sediment			
	Trash	Soapy Foam		
	Other:	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
		Floatables Y/N		
	Visual Observations (Circle)	Deposits/Stains Y/N		
	Describe	lots of trash downstream		
	Describe	OF OUTE !		
		of outain		
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	Pipe Condition (Circle)	Good Fair Poor		
	,			
	Describe			



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Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bran	ch	
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit di Signature of Inspector	scharge is evident	at this time.		
If illicit discharge investigation is required, provide a time frame for	investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation.	de date, time, and	actions. Int	ermittent disc	charges require
Upon illicit discharge elimination, re-inspect and certify the following	ng:			
"I certify that the illicit discharge has been eliminated, documented	l, and that no addi	tional action	is necessary a	at this time."
Signature of Inspector		Date		
Next inspection date:				



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:	14 - 4		
10	7/30/14 E.Ballaune	470	, 472		
	C. Maybre				
		Pipe Material			
	End of Pipe Diameter: 2.5	Concrete			
Outfall	'X Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other:			
	Other:	other			
Date of Last Rainfall		timated Discharge Rate			
7/77/14	008	timated biseriarge nate	21 4		
Weather Information Ca	0.03				
	und.com/history/airport/KRIC/2014		Visual Observations		
nttp.//www.wundergro	Outfall Submerged? Y (N)	Flow Present ?	Visual Observations		
	If yes, (Circle):	Width of Water Sur			
	Water:		11.7 2 21		
		Approximate Depth			
	Fully	Approximate Flow			
	Partially	Approximate Flow	Rate (cfs): 0.003		
	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear	1		
Findings	Partially	Muddy			
	Debris Around Outfall (Check all that apply):	Milky	Milky		
	None	Sheen	Sheen		
	Sediment	Soapy Foam	0.4		
	Trash	Oakson			
	Other:				
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	Il that apply):		
	None	None	X		
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
	Vi101 1' (6'-1)	Floatables	Y(N)		
	Visual Observations (Circle)	Deposits/Stains	Y/N)		
	1				
	Describe				
	Vegetation Condition (Circle)	Excessive	Inhibited		
	Dosariba				
	Describe				
		1			
	Pipe Condition (Circle)	(Good) Fair	Poor		
	Describe				



Structure Condition (Circle)	Good	Fair	Poor	ı.
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Brani	Ch	
Notes/Necessary Action:	-M-S			
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit di Signature of Inspector	scharge is evident	at this time.	14	
If illicit discharge investigation is required, provide a time frame for	investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation.	de date, time, and	actions. Int	ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the following	ng:			
"I certify that the illicit discharge has been eliminated, documented	i, and that no addit	ional action	is necessary a	at this time."
Signature of Inspector		Date		
Next inspection date:				



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection, Date: Inspector:	Photo #'s: 11 711 11 70		
	7/30/14 E Gallaghe			
	C. Charage			
	2 1	Pipe Material		
	End of Pipe Diameter: 3 U	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Box	Other:		
	Other:	Other,		
Date of Last Rainfall		nated Discharge Rate		
7771	0.08	lated Discharge Nate		
Weather Information Ca				
	ound.com/history/airport/KRIC/2Q14	Visual Observations		
nttp.//www.wundergro	Outfall Submerged? (Y) N			
	If yes, (Circle):	Flow Present ? (Ý) N Width of Water Surface		
		1. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	Water:	Approximate Depth of Water (ft.): 0.35		
	Fully	Approximate Flow Velocity (ft./s):		
	(artially) bout live	Approximate Flow Rate (cfs): Stantant		
Findings	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Rartially	Muddy		
	Debris Around Outfall (Check all that apply):	Milky		
,aBa	None	Sheen		
	Sediment	Soapy Foam		
	Trash			
	Other:	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	< None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
		Floatables Y(N)		
	Visual Observations (Circle)	Deposits/Stains (Y)N		
		U		
	Describe	stagnant muddy woder		
		s and have loveled in mother !		
		·		
	Vegetation Condition (Circle)	Excessive Inhibited		
V **	Describe			
	Pipe Condition (Circle)	Good Fair Poor		
	pe condition (circle)	(552) (511)		
		_		
	Describe			
	Describe			



Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Brow	n Ch	
Certification:				
If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit di	scharge is evident a	t this time.'	14	
Signature of Inspector	,	Date		
If illicit discharge investigation is required, provide a time frame for	investigation comp	letion:		
Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation.	de date, time, and a	actions. Into	ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the following	ng:			
"I certify that the illicit discharge has been eliminated, documented	l, and that no additi	onal action	is necessary a	t this time."
Signature of Inspector	/·	Date		
Next inspection date:				



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID# 12	Inspection Date: Inspector:	Photo #'s:	80,481		
	73014 EGalician	1x 4	80,481		
	C. Cinquibio	eil	*		
	End of Pipe Diameter: 2.0	Pipe Material			
	end of Pipe Diameter:	Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other:			
	Other:				
Date of Last Rainfall	Quantity of Last Rainfall (in.)	stimated Discharge Rate	e		
7/27/14	0.08				
Weather Information Ca	an Be Found @:				
http://www.wundergro	und.com/history/airport/KRIC/2014		Visual Observations		
	Outfall Submerged? Y N	Flow Present ?			
	If yes, (Circle):	Width of Wate	r Surface		
	Water:	Approximate D	epth of Water (ft.):		
	Fully	Approximate F	low Velocity (ft./s):		
	Partially	Approximate F			
Findings			rity (Check all that apply):		
	Fully Clear		They (effects all that apply).		
	Partially	Muddy			
	Debris Around Outfall (Check all that apply				
rindings	None	Sheen			
	Sediment		Soapy Foam		
	Trash				
	Other:	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Che	eck all that apply):		
	None	None None			
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
		Floatables	Y(N)		
	Visual Observations (Circle)	Deposits/Stain			
	Describe	du			
		ary			
	Vegetation Condition (Circle)	Excessive	Inhibited		
	Describe				
	Describe				
	Pipe Condition (Circle)	(Good) Fair	Poor		
	Describe				



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Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Brai	nch	
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit dis Signature of Inspector	L	7 30 Date	<u> </u>	
If illicit discharge investigation is required, provide a time frame for	investigation comp	oletion:		
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.	de date, time, and	actions. Into	ermittent disc	charges require
Upon illicit discharge elimination, re-inspect and certify the followin	g:			
"I certify that the illicit discharge has been eliminated, documented,	, and that no addit	ional action	is necessary a	at this time."
Signature of Inspector		Date		
Next inspection date:				



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Outfall ID # \3	Inspection Date: Inspector:	Photo #'s: 49U, 497		
	17/30/14 F. Gallagher	110,111		
	1211	Pipe Material		
	End of Pipe Diameter: 1. 2	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Box	Other:		
	Other:	Others		
Date of Last Rainfall		ated Discharge Rate		
7 27 14	0.02	and a second go that		
Weather Information Ca	an Be Found @:			
http://www.wundergro	und.com/history/airport/KRIC/2014	Visual Observa tio ns		
	Outfall Submerged? Y N	Flow Present ? Y (N		
	If yes, (Circle):	Width of Water Surface		
	Water:	Approximate Depth of Water (ft.):		
	Fully	Approximate Flow Velocity (ft./s):		
	Partially	Approximate Flow Rate (cfs):		
Findings	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Partially	Muddy		
	Debris Around Outfall (Check all that apply):	Milky		
	None	Sheen		
	Sediment	Soapy Foam		
	Trash			
	Other: Vealtation	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
	Visual Observations (Circle)	Floatables Y/N		
	visual observations (entitle)	Deposits/Stains Y/M		
	Describe			
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	Pipe Condition (Circle)	Good Fair Poor		
	Describe C	ome cracks at end		
	،د.	1100 C.100/1=3 000 O.101		



Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe				
Receiving Stream Name	Obolete	OBENCA	Qesa	
Notes/Necessary Action:	Appon	attox	River	
Certification: If no action is required, certify the following:	icit discharge is evident	at this time "		
"I certify that the outfall inspection is complete and that no illi	cit discharge is evident	at this time."	4	
Signature of Inspector	y	Date		
If illicit discharge investigation is required, provide a time fram	ne for investigation com	npletion:		
Document all steps utilized to eliminate the illicit discharge to three separate investigation with the appropriate documentat		dactions. Inter	mittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the fol	llowing:			
"I certify that the illicit discharge has been eliminated, docume	ented, and that no addi	itional action is	necessary a	t this time."
Signature of Inspector		Date	_	
Next inspection date:				



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Outfall ID # 14	Inspection Date: Inspector:	Photo #'s:		
	17130114 E. Gallavine	Photo #'s: 501, 502		
	C. Chaubbei			
	End of Pipe Diameter: 1.31	Pipe Material		
		Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Вох	Other:		
	Other:			
Date of Last Rainfall	Quantity of Last Rainfall (in.) Estim	nated Discharge Rate		
7/27/14	0.08			
Weather Information Ca	_			
http://www.wundergrou	und.com/history/airport/KRIC/2014	Visual Observations		
	Outfall Submerged? Y	Flow Present ? Y		
	If yes, (Circle):	Width of Water Surface		
	Water:	Approximate Depth of Water (ft.):		
	Fully	Approximate Flow Velocity (ft./s):		
	Partially	Approximate Flow Rate (cfs):		
	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Partially	Muddy		
Findings	Debris Around Outfall (Check all that apply):	Milky		
	None	Sheen		
	Sediment	Soapy Foam		
	Trash	Other:		
	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
	Visual Observations (Circle)	Floatables Y/N Deposits/Stains (Y/N		
		Deposits/Stains (Y/N		
		and and in tail		
	Describe	sediment in pipe		
	Vegetation Condition (Circle)	Excessive Inhibited		
100	Describe			
		\sim		
	Pipe Condition (Circle)	Good Fair Poor		
	Describe			



Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appo	math	OX Ri	Ver
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit di Signature of Inspector	ischarge is evident a	t this time. 7/30 Date	14_	
If illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to incluthree separate investigation with the appropriate documentation.	de date, time, and a		ermittent disc	charges require
Upon illicit discharge elimination, re-inspect and certify the follow	ng:			
"I certify that the illicit discharge has been eliminated, documented	d, and that no additi	onal action	is necessary a	at this time."
Signature of Inspector		Date	_	
Next inspection date:				



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Outfall ID # 5	Inspection Date: Inspector:	Photo #'s: 110 12 11011		
1.7	7/30/14 E-Gallauny	493,494		
	c (valebell			
	End of Pipe Diameter: 2.0	Pipe Material		
	End of Pipe Diameter: 2.0	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Вох	Other: HDPE		
	Other:	1111		
Date of Last Rainfall		ated Discharge Rate		
7/27/14	0.08			
Weather Information Ca				
	und.com/history/airport/KRIC/2014	Visual Observations		
	Outfall Submerged? Y (N)	Flow Present ? Y N		
	If yes, (Circle):	Width of Water Surface		
	Water:	Approximate Depth of Water (ft.):		
	Fully	Approximate Flow Velocity (ft./s):		
	Partially	Approximate Flow Rate (cfs):		
	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Partially	Muddy		
Findings	Debris Around Outfall (Check all that apply):	Milky		
	None	Sheen		
	Sediment	Soapy Foam		
	Trash	Other:		
	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
	Visual Observations (Circle)	Floatables Y/N		
	Visual Observations (circle)	Deposits/Stains Y/N		
	Describe			
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	Pipe Condition (Circle)	Good Fair Poor		
	Describe			



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rtification: no action is required, certify the following: rertify that the outfall inspection is complete and that no illicit d Signature of Inspector licit discharge investigation is required, provide a time frame for cument all steps utilized to eliminate the illicit discharge to inclue ee separate investigation with the appropriate documentation. on illicit discharge elimination, re-inspect and certify the following that the illicit discharge has been eliminated, documented.	r investigation comp ude date, time, and a	Date Date Date Date Date Date	ermittent disc	
sertify that the outfall inspection is complete and that no illicit d Signature of Inspector licit discharge investigation is required, provide a time frame for cument all steps utilized to eliminate the illicit discharge to include separate investigation with the appropriate documentation.	r investigation comp ude date, time, and a	Date	14_	harges require
rectify that the outfall inspection is complete and that no illicit d Signature of Inspector licit discharge investigation is required, provide a time frame for comment all steps utilized to eliminate the illicit discharge to inclu	r investigation comp ude date, time, and a	Date	14_	harges require
sertify that the outfall inspection is complete and that no illicit d Signature of Inspector licit discharge investigation is required, provide a time frame for	r investigation comp	Date	14_	
ertify that the outfall inspection is complete and that no illicit d		7/30	14_	
ertify that the outfall inspection is complete and that no illicit d		7/30	44	
ertify that the outfall inspection is complete and that no illicit d		t this time."		
rtification:				
tes/Necessary Action:				
Receiving Stream Name	Аррома	uttox k	River	
Notable Biology (animals, insects, plants, etc.) Describe:				
Describe				
Describe	Good	Fair	Poor	



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Outfall ID#	Inspection Date: Inspector:	Photo #'s: 100 1100 1101
	7 30 14 E Gallace	
	C. Challate	Heli
	End of Pipe Diameter:	Pipe Material
	End of tipe blameters	Concrete
Outfall	Circular	> PVC
Description	Elliptical	Steel
	Вох	Other:
	Other:	
Date of Last Rainfall		Estimated Discharge Rate
7/2/14	0.08	
Weather Information Ca		
http://www.wundergro	und.com/history/airport/KRIC/2014	Visual Observations
	Outfall Submerged? Y N	Flow Present ? (Y) N
	If yes, (Circle):	Width of Water Surface Approximate Depth of Water (ft.): Approximate Flow Velocity (ft./s):
	Water:	Approximate Depth of Water (ft.):
	Fully	Approximate Flow Velocity (ft./s):
	Partially	Approximate Flow Rate (cfs):
	Sediment:	Flow Color/Clarity (Check all that apply):
	Fully D. I. D. L.	alour Glear)
	Partially FULLY of Veg	Muddy
Findings	Debris Around Outfall (Check all that apply	y): Milky
i ilialiga	None	Sheen
	Sediment	Soapy Foam
	Trash	Cohon
	Other:	Other:
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):
	None	None
	Sediment	Petroleum
	Trash	Sewage
	Other: Vealtator	Other:
	Visual Observations (Circle)	Floatables
	visual Observations (circle)	Deposits/Stains Y(N)
	Describe	
	Vagatation Condition (Circle)	Excessive (Inhibited)
	Vegetation Condition (Circle)	Excessive (Inhibited)
	Describe	
	Piero Condition (Circle)	
	Pipe Condition (Circle)	Sooo Fair Poor
	5	
	Describe	



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Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	1atto	x Riv	ev
Certification: If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit dis		t this time.'	14	
If illicit discharge investigation is required, provide a time frame for i Document all steps utilized to eliminate the illicit discharge to includ three separate investigation with the appropriate documentation.			ermittent disch	narges require
Upon illicit discharge elimination, re-inspect and certify the following	g:			
"I certify that the illicit discharge has been eliminated, documented,	and that no addition	onal action	is necessary at	t this time."
Signature of Inspector		Date		- 1
Next inspection date:				



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Outfall ID#	Inspection Date: Inspector:	Photo #'s: 488		
	13014 E. Gallagine	788		
	C. Chappel			
	End of Pipe Diameter: 0.8	Pipe Material		
		Concrete		
Outfall	Circular	PVC PVC		
Description	Elliptical	Steel		
	Вох	Other:		
	Other:			
Date of Last Rainfall		ated Discharge Rate		
1/2/1/4	0.08			
Weather Information Ca				
http://www.wundergro	und.com/history/airport/KRIC/2014	Visual Observations		
	Outfall Submerged? Y (N)	Flow Present? Y (N')		
	If yes, (Circle):	Width of Water Surface		
	Water:	Approximate Depth of Water (ft.):		
	Fully	Approximate Flow Velocity (ft./s):		
	Partially	Approximate Flow Rate (cfs):		
	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
Findings	Partially	Muddy		
	Debris Around Outfall (Check all that apply):	Milky		
, and a	None	Sheen		
	Sediment	Soapy Foam		
	Trash	Other:		
	Other:	1 10 11		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
II- =	Visual Observations (Circle)	Floatables Y		
		Deposits/Stains Y/N		
		D'II		
	Describe 2	Pipes @ Structure		
		1 0 0 0 0 0 0 0 0 0		
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	Pipe Condition (Circle)	Good Fair Poor		
1				
	Describe			



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Structure Condition (Circle)				
	(Good)	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	rattox	River	
lotes/Necessary Action:				
f no action is required, certify the following:	t discharge is evident	at this time."	<u></u>	
f no action is required, certify the following:	t discharge is evident	at this time."	14_	
f no action is required, certify the following:	t discharge is evident :	at this time." 130	14_	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit Signature of Inspector	W	7 30 Date	14_	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit Signature of Inspector f illicit discharge investigation is required, provide a time frame	for investigation com	Date	14_	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit Signature of Inspector f illicit discharge investigation is required, provide a time frame Document all steps utilized to eliminate the illicit discharge to in	for investigation com	Date	14rmittent disch	narges require
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit Signature of Inspector f illicit discharge investigation is required, provide a time frame Occument all steps utilized to eliminate the illicit discharge to in hree separate investigation with the appropriate documentation	for investigation composite clude date, time, and in.	Date	14_rmittent disch	narges require
I certify that the outfall inspection is complete and that no illicit Signature of Inspector fillicit discharge investigation is required, provide a time frame pocument all steps utilized to eliminate the illicit discharge to in three separate investigation with the appropriate documentation	for investigation composite clude date, time, and in.	Date	14rmittent disch	narges require
Certification: If no action is required, certify the following: It certify that the outfall inspection is complete and that no illicit Signature of Inspector If illicit discharge investigation is required, provide a time frame chree separate investigation with the appropriate documentation of the complete investigation with the appropriate documentation of the certify the following that the illicit discharge elimination, re-inspect and certify the following that the illicit discharge has been eliminated, documentation of the certify that the illicit discharge has been eliminated, documentation of the certify that the illicit discharge has been eliminated, documentation of the certify that the illicit discharge has been eliminated, documentation of the certify that the illicit discharge has been eliminated, documentation of the certify that the illicit discharge has been eliminated, documentation of the certification	for investigation composite clude date, time, and in.	Date Date Detion: actions. Inter		
f no action is required, certify the following: 'I certify that the outfall inspection is complete and that no illicit Signature of Inspector f illicit discharge investigation is required, provide a time frame Document all steps utilized to eliminate the illicit discharge to in three separate investigation with the appropriate documentation Upon illicit discharge elimination, re-inspect and certify the follo	for investigation composite clude date, time, and in.	Date Date Detion: actions. Inter		



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Outfall ID # \8	Inspection Date: Inspector:	Photo #'s: 110 C- 11010		
	73014 E Gallower	- 485,48U		
	C ciniopell			
	End of Pipe Diameter: 1.0	Pipe Material		
	Lind of Fipe Diameter. 1.0	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Вох	Other:		
	Other:			
Date of Last Rainfall	Quantity of Last Rainfall (in.) Estima	ated Discharge Rate		
7/27/14	0.08			
Weather Information C				
http://www.wundergro	ound.com/history/airport/KRIC/2014	Visual Observations		
	Outfall Submerged?	Flow Present ? N		
	If yes, (Circle):	Width of Water Surface (). 7		
	Water:	Approximate Depth of Water (ft.): 0.04		
	Fully	Approximate Flow Velocity (ft./s): 1.0		
	Partially	Approximate Flow Rate (cfs): 0.004		
	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	(lear)		
	Partially	Muddy		
Findings	Debris Around Outfall (Check all that apply):	Milky		
	None	Sheen		
	Sediment	Soapy Foam		
	Trash	Other:		
	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sedimen	Petroleum		
	Trash	Sewage		
	Other:	Other:		
	Visual Observations (Circle)	Floatables (Y)N		
		Deposits/Stains (Y)N		
	p	100 Gull of Coldinal		
	Describe Di	pe full of sediment		
	·			
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	. Av			
	Pipe Condition (Circle)	Fair Poor		
	Describe			



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	1			
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appo	Matto	x Rivi	er
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit dis		7/30		
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for	investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.	de date, time, and	actions. Int	ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the followin	ıg:			
"I certify that the illicit discharge has been eliminated, documented,	, and that no addit	tional action	is necessary a	t this time."
Signature of Inspector		Date	-	
Next inspection date:				



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Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:			
	7/30/14 E.Gallantier	483			
	C. Charovell				
	End of Pipe Diameter:	Pipe Material			
	end of Pipe Diameter:	Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other:			
	Other:				
Date of Last Rainfall	Quantity of Last Rainfall (in.) Estima	ited Discharge Rate			
712714	0.08				
Weather Information Ca	n Be Found @:				
http://www.wundergrou	und.com/history/airport/KRIC/2014	Visual Observations			
	Outfall Submerged? (Y) N	Flow Present? Y (N)			
	If yes, (Circle):	Width of Water Surface			
	Water:	Approximate Depth of Water (ft.):			
	Fully	Approximate Flow Velocity (ft./s):			
	Partially				
	Sediment:	Approximate Flow Rate (cfs):			
		Flow Color/Clarity (Check all that apply):			
	Fully (Partially)	Clear			
	Debris Around Outfall (Check all that apply):	Muddy			
Findings	The Control of the Control	Milky Sheen			
	None Sediment				
	Trash	Soapy Foam			
	Other:	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):			
	None	None			
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
	Other.	Floatables Y(N)			
	Visual Observations (Circle)	Deposits/Stains Y/N			
		Deposits/stains Y(N)			
	Describe				
	Describe				
	Vegetation Condition (Circle)	Excessive Inhibited			
	Describe				
	V				
	Pipe Condition (Circle)	Good Fair Poor			
	pc dollarion (direct)	(100)			
	Describe				
	Describe				



Virginia State University, VA 23806

		0.		
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	lattox	Rive	ř
Notes/Necessary Action:	11-14			
Certification:				
If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit disc	charge is evident	at this time.	114	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for i	nvestigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.	e date, time, and	actions. Int	ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the following	; :			
"I certify that the illicit discharge has been eliminated, documented,	and that no addit	ional action	is necessary a	t this time."
Signature of Inspector		Date		
Next inspection date:				



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Outfall ID# 20	Inspection Date: Inspector:	Photo #'s:			
	130114 E. Gallagi	PK			
	C. Charle				
	1	Pipe Material			
	End of Pipe Diameter:	Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
Description:	Box	Other:			
	Other:	Other			
Date of Last Rainfall		stimated Discharge Rate			
ate of Last Rainfall	Quantity of East Rainfail (III.)	stimated Discharge Rate			
Weather Information Ca					
			Minus I Observe		
ittp://www.wundergrou	und.com/history/airport/KRIC/2014	Isl. B	Visual Observations		
	Outfall Submerged? Y	Flow Present ?	Y		
	If yes, (Circle):	Width of Water Sur			
	Water:	Approximate Depth	n of Water (ft.):		
	Fully	Approximate Flow	Velocity (ft./s):		
	Partially	Approximate Flow	Rate (cfs):		
	Sediment:		Check all that apply):		
	Fully	Clear			
	Partially	Muddy			
er ir	Debris Around Outfall (Check all that apply				
Findings	(None)	Sheen			
	Sediment	Soapy Foam			
	Trash				
	Other:	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	Ill that apply):		
	(None	X None	an triat appry).		
	Sediment	Petroleum			
	Trash	Sewage	-		
	I	Other:			
	Other:		1 Vai		
	Visual Observations (Circle)	Floatables	YKN		
		Deposits/Stains	N/N)		
	Describe				
	Vegetation Condition (Circle)	Evenssive	Inhibited		
	vegetation condition (Circle)	Excessive	infibited		
	Describe				
	5555				
	Pipe Condition (Circle)	Good Fair	Poor		
	Describe				



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Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	lattox	Rive	r
Notes/Necessary Action:				
Certification:				
If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit	t discharge is evident at A	7 30	114	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame	for investigation compl	etion:		
Document all steps utilized to eliminate the illicit discharge to inc	clude date, time, and a		ermittent disch	narges require
Document all steps utilized to eliminate the illicit discharge to inc three separate investigation with the appropriate documentatio	clude date, time, and a n.		ermittent disch	narges require
Document all steps utilized to eliminate the illicit discharge to inc three separate investigation with the appropriate documentatio Upon illicit discharge elimination, re-inspect and certify the follo	clude date, time, and a n. wing:	ctions. Inte		
If illicit discharge investigation is required, provide a time frame Document all steps utilized to eliminate the illicit discharge to incident three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the follow. It certify that the illicit discharge has been eliminated, document Signature of Inspector.	clude date, time, and a n. wing: ted, and that no additio	ctions. Inte		



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 2	Inspection Date: Inspector:	Photo #'s:
	1730114 E Gallagin	W 509,511
	C. Charage	
	1 1	Pipe Material
	End of Pipe Diameter: 1.5	Concrete
Outfall	Circular	PVC
Description	Elliptical	Steel
	Вох	Other:
	Other:	-1
Date of Last Rainfall		ated Discharge Rate
7/27/14	0.08	8
Weather Information C		
	ound.com/history/airport/KRIC/2014	Visual Observations
	Outfall Submerged? Y N	Flow Present ? (Y') N
	If yes, (Circle):	
	Water:	Approximate Depth of Water (ft.):
	1	Approximate Flow Velocity (ft./s):
	Fully	
	Partially	Approximate Flow Rate (cfs):
	Sediment:	Flow Color/Clarity (Check all that apply):
Findings	Fully	(lear)
	Partially	Muddy
	Debris Around Outfall (Check all that apply):	Milky
	Mone)	Sheen
	Sediment	Soapy Foam
	Trash	Other:
	Other:	
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):
	None	None
	Sediment	Petroleum
	Trash	Sewage
	Other:	Other:
	Visual Observations (Circle)	Floatables Y/N
	Visual Observations (Circle)	Deposits/Stains Y/N
	Describe	
	Vegetation Condition (Circle)	Excessive Inhibited
	Describe	
	Pipe Condition (Circle)	Good Fair Poor
	Describe	



Virginia State University, VA 23806

		_		1
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	ланох	Rive	r
Notes/Necessary Action:	1111			
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit of the complete and the complete	discharge is evident	7/30	114	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame fo	r investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to incluthree separate investigation with the appropriate documentation.		actions. Int	ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the follow	ing:			
"I certify that the illicit discharge has been eliminated, documente	d, and that no addit	ional action	is necessary a	at this time."
Signature of Inspector		Date		
Next inspection date:				



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 22	Inspection Date: Inspector:	Photo #'s:				
	7/30/14 E Exc/ (a)		506, 507, 508			
	C Challen		3.10-1,300			
	1 1-11	Pipe Material				
	End of Pipe Diameter:	Concrete				
Outfall	Circular	PVC				
Description	Elliptical	Steel				
Description	Box	Other:				
	Other:	Other				
Date of Last Rainfall	Quantity of Last Rainfall (in.)	Estimated Discharge Rate				
1 27 14	0 - 08	Estimated Discharge Rate	1			
Veather Information C			1			
	_		Vis. ed Observations			
rtp://www.wundergro	ound.com/history/airport/KRIC/2014	Flow Present ?	Visual Observations			
	Outfall Submerged? Y	10.	N N			
	If yes, (Circle):	Width of Water Su	irrace 0.5			
	Water:	Approximate Dept	· · · · — _ —			
	Fully	Approximate Flow				
	Partially	Approximate Flow	Rate (cfs): 0.02			
	Sediment:	Flow Color/Clarity	Flow Color/Clarity (Check all that apply):			
	Fully	Clear				
	Partially		Muddy			
Findings	Debris Around Outfall (Check all that app					
rindings	None	Sheen				
	Sediment	Soapy Foam				
	Trash	><				
	Other:	Other:				
	Debris in Pipe (Check all that apply):	Flow Odor (Check	all that annly):			
	None*)	None	an anat appropri			
	Sediment	Petroleum				
	Trash	Sewage				
	Other:	Other:				
		Floatables	Y/Ø			
	Visual Observations (Circle)	Deposits/Stains	Y/(8°)			
		Deposits/ Stains				
	Describe	b'in an acid	-d 0100 0 -1 - 1			
	Describe	1 PIDE CRACKE	ed, one section			
	Vegetation Condition (Circle)	Excessive	Inhibited			
	Describe					
	Pipe Condition (Circle)	Good Fair	Poor			
	ripe condition (energy	1011	(, , ,)			
	Describe					
	Describe		1			



Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Apple	o matt	DY Ri	VEV
Notes/Necessary Action:				
Certification:				
If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit dis	charge is evident	at this time	14	
Signature of Inspector		Date	1-1	
_	·			
If illicit discharge investigation is required, provide a time frame for				L
Document all steps utilized to eliminate the illicit discharge to incluc three separate investigation with the appropriate documentation.	ie date, time, and	actions. In	termittent disc	narges require
Upon illicit discharge elimination, re-inspect and certify the followin	g:			
"I certify that the illicit discharge has been eliminated, documented,	and that no addit	ional action	n is necessary a	t this time."
Signature of Inspector		Date	-	
Next inspection date:				

Appendix MCM 4



VSU, VA 23806 Phone: (804)-504-7500 Fax: (804)-524-5383

July 1, 2013-June 30, 2014 Land Disturbing Activities

Project Name	Project Location	Project Description	Estimated Disturbed Area Acreage	Approximate Start Date	Approximate Completion Date	On-site Project Manager Name	On-site Project Manager Contact Information	Responsible Land Disturber Permit Number	Operator Name	VAR10 Registration Number
Bookstore Entrance Improvements	University Avenue	Install a new entrance, retaining wall, hardscape, and landscaping at the front of the University Bookstore	0.21	October 21, 2013	January 22, 2014	Jeff Roe	cell (804)840- 3754	40744	Daniels and Company	VAR10-14- 100242
Multipurpose Center	Ettrick Village	Construct a new 168,000 convocation center and associated parking	50	January 1, 2014	January 1, 2016	Doug Sauer	site (804)479- 3152 main (804)343- 3433	39518 and 40874	S B Ballard	VAR10C- 339
Drainage Improvements/ Stormwater Master Plan	VSU Campus	Install drainage improvements and water quality improvements proposed in the Stormwater Master Plan and related to the implementation of the Campus Master Plan 20/20 Vision	276.7	July 1, 2012	June 30, 2014, with renewal anticipated	As noted by project below	As noted below by project	As noted by project below	Jonathan Taylor (804) 524- 5534	VAR10-13- 100047
Virginia Hall	Hayden Street	Demolition and construction of 3,000+/-s.f. of reinforced concrete pavement, walks, landscaping, storm drainage, and removal and replacement of 160+/-feet of existing steam line.	0.25	June 30, 2014	October 28, 2014	Tony Cook	Cell (804) 432-4562	42758	Jonathan Taylor (804) 524- 5534	VAR10-13- 100047



Capital Outlay & Facilities PO Box 9044 Petersburg, VA 23806 Phone: (804)524-3971 Fax: (804)524-5383

INSPECTION REPORT

Project Name: Bookstore Site Improvement Project Authority: Jonathan Taylor/VSU								
RLD Name: <u>Matthew Stauch</u>				RLD No.:0744				
Project Location: 21011 University Ave.				Project No: <u>212-A2212-014</u>				
Inspector Name: Brian M. Haskins				Inspection Date: 2/6/2014 Time: 9:30 a.m.				
Previous v	violation(s) been	corrected	: I	YES or NO				
				RAINFALL:				
Date of Rain: 2/3/2014 Amount of Rainfall (inches): 0.38 2/4/2014 0.37 2/5/2014 0.08								
			STAGE	OF CONSTRUCTION				
Pre-Construction Conference Building Construction Construction of SWM Facilities Clearing & Grubbing Finish Grading Maintenance of SWM Facilities Rough Grading Final Stabilization Other								
/f===#	State/Local	Viol	ation	Description and Location of Problem/Violation ⁽²⁾ , Required or				
ltem#	Regulation (1)	Initial	Repeat	Recommended Corrective Actions, and Other Comments/Notes				
1	MS-4	Х		Repair the damaged silt fence to the west of the project site (Fig. 1).				
2	MS-4	X		Remove the built up sediment from the gutter pans at University Avenue (Fig. 2).				
Re Sp 2. No	Regulations (4VAC50-30), Virginia Stormwater Management Permit Regulations (4VAC50-60), or Annual Standards and Specifications for ESC							
The required corrective action deadline date applies to <u>all violations</u> noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a NOTICE TO COMPLY, STOP WORK ORDER , and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.								
Inspector: 2/6/2014								
	Sig	nature		Date				
Acknowledgement of on-site report receipt: MATRIEN STATUS MELLING 2/6/14 Print Name Signature Date								
This report	will be provided to th	e following p	arties via ma	nil, fax, or e-mail within 24 hours of inspection:				
				8.0.00				

Version: March 2011 Page 1 of 2

Capital Outlay & Facilities
PO Box 9044
Petersburg, VA 23806
Phone: (804)524-3971
Fax: (804)524-5383

Bookstore Site Improvements - Erosion & Sediment Control Site Photographs

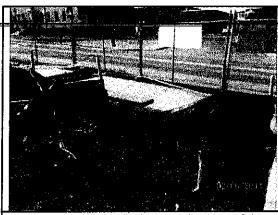


Fig. 1- Damaged silt fence to the west of the project site (view-southwest).



Fig. 2- Sediment build up in the gutter pans (view-north).

Version: March 2011 Page 2 of 2



Version: March 2011

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Capital Outlay & Facilities PO Box 9044 Petersburg, VA 23806 Phone: (804)524-3971 Fax: (804)524-5383

INSPECTION REPORT

Project Na	me: Multipurpo	se Cente	r	Project Author	ority: Jonathan T	aylor/VSU
RLD Name				emanRLD No.:	#40874 &	#39518
Project Lo	cation: 2nd Aver	ue and E	. River Rd	Project No:_	212-17665-000	(VAR10C339)
	Name: Jason M				ate: 01/13/2014	_Time: 2:30 p.m
Previous v	violation(s) been	corrected	: [YES or NO		
				RAINFALL:		
	Date of Rair	<u>1:</u>		Amo	ount of Rainfall (in	nches):
	01/10/2014				0.17	
	01/11/2014				0.47	
		22	STAGE	OF CONSTRUCTION	20.00	
	struction Conference Clearing & Grubbing Rough Grading			Building Construction Finish Grading Final Stabilization	Maintenan	on of SWM Facilities ce of SWM Facilities
Itam#	State/Local	Vio	lation	Description and Location	of Problem/Violation (2)	, Required or Recommended
Item#	Regulation (1)	Initial	Repeat	Corrective	Actions, and Other Co.	mments/Notes
1	MS-1	Х		A STATE OF THE PARTY OF THE PAR		s that will not be fine graded for een cleared and grubbed). See
2	MS-10	Х		Make repairs to or install new and concrete culvert inlets. S		and 3rd Avenue roadway inlets
3	MS-4	Х		Install silt fence along the nort sediment from running onto pr		roperty (Parcel 20905) to prever
4	MS-17	Х		Remove sediment from the ro shovels) Sweep roadways da		e. remove the sediment/mud wit
Vir	ginia Stormwater Mana	gement Perm	it Regulations	nt publication of the Virginia Erosio (4VAC50-60), or Annual Standard e problem/violation was evident du	Is and Specifications for	
REQUIRE	CORRECTIVE A	ACTION DE	EADLINE D	ATE: 01/21/2014 (DD/MM/YY)	_Re-inspection Dat	(DD/MM/YY)
required corre	corrective action deadling ctive actions are not consecutive entity responsible for	mpleted by th	e deadline, a l	ns noted on this report. If listed vio NOTICE TO COMPLY, STOP WC	plation(s) currently const ORK ORDER, and/or oth	itute non-compliance and/or er enforcement actions may
nspector:	Japan /	gnature	The		01/14/14 Date	
Acknowled	gement of on-site re	port receipt:	Gar y Print Name	Cosbx Signature	o hong	1-14-2014 Date
This report	will be provided to t			nail, fax, or e-mail within 24 ho	ours of inspection:	





Fig. 1 – Remove sediment from roadway inlets and reinstall inlet protection (view-west).



Fig. 2 – Remove debris from all storm pipe inlets to promote drainage (view-northeast).



Fig. 3 – Install silt fence along the north side of the Church Property (view-east).



Fig. 4 – Apply temporary seeding to all denuded areas (view-south).



Fig. 5 – Temporary sediment trap #5 (view-west).



Fig. 6 – Temporary sediment trap #4 and outlet protection (view-northwest).

Version: March 2011

Appendix MCM 5



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Type of BMP: 200 F Filterra BMP ID #: 1			Inspector Name: Ame is a we hunt					
			Inspection Date: 03/18/14 Filterra Size: 5' x 7'					
		Initia	l Observations (Cir	cle Y/N)				
Standing Water?	Y	N						
Damage to Box Structure?	Υ	(N)						
Damage to Grate?	Y	(N)						
Is Bypass Clear?	(9)	N						
			Waste					
Silt/Clay	Υ	\bigcirc						
Cups/Bags/Trash	0	N						
Leaves	9	N						
Other	Υ	(N)						
			Media					
Depth from Top of Slab to Surface of Mulch (in.) Note: If depth from top of slab to surface of mulch excomple is added until the depth of 14" is achieved.						exceeds 14",		
			Mulch					
Netting in Need of Replacement?			Mulch Replacement or Addition Necessary?	⊗ _N		mount of Mulch ddition or Replacement Needed (in.):		
Stones in Need of Replacement?	Υ	N	Type of Mulch to	Be Added	or Re	eplaced?		
			Plantings					
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.			#1	#2	
Height Above Grate? (ft.)	3.5'		Health of plant(s)			Alive/Dead	Alive/Dead	
Stem Diameter/Caliper? (in.)			Damage to plant(s)?		YÆ	Y/N	
Width at Widest Point? (ft.) Plant(s) replaced?					Y ®	Y/N		

Version 2014 1



Notes:

Capital Outlay Facilities PO Box 9044 Virginia State University, VA Phone: (804)524-3971

Fax: (804)524-5383

Clean waste, replace mu	uch
ertification:	
no maintenance is required, certify the following:	anuat this time "
I certify that the inspection is complete and that no action is necessa	ary at this time.
Signature of Inspector	Date
fmaintenance is required, provide a time frame for maintenance collipon maintenance completion, re-inspect and certify the following:	mpletion: by next inspection
	litional action is necessary at this time."
	litional action is necessary at this time."
	litional action is necessary at this time." Date
I certify that all recommended maintenance is complete and no add	

Version 2014 2



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/18/14	Inspector Name: ಕಾರ್ಲ್ಯ ಬಿ e hunt							
Type of BMP:	Inspection Date: 03/18/14 Filterra Size: 5' x 7'							
BMP ID #:2								
Component	Comments:							
		Initia	Observations (Circ	cle Y/N)				
Standing Water?	Y	N						
Damage to Box Structure?	Y	N						
Damage to Grate?	Υ	N						
Is Bypass Clear?	0	N						
			Waste					
Silt/Clay	Υ							
Cups/Bags/Trash	3	N						
Leaves	\odot	N						
Other	Υ	N						
			Media					
Depth from Top of Slab to Surface of Mulch (in.)	1-5		Note: If depth from mulch is added un			to surface of mulcl of 14" is achieved.	n exceeds 14",	
			Mulch					
Netting in Need of Replacement?			Mulch Replacement or Addition Necessary?	(S) N		nount of Mulch dition or Replacement Needed (in.): 十"		
Stones in Need of Replacement?	Y	N	Type of Mulch to	Be Added	or R	eplaced?		
			Plantings					
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.			#1	#2	
Height Above Grate? (ft.)	6'		Health of plant(s)			Alive/Dead	Alive/Dead	
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant((s)?		Y ®	Y/N	
Width at Widest Point? (ft.)	3.5'		Plant(s) replaced	?		Y.N	Y/N	

Version 2014 1



Phone: (804)524-3971 Fax: (804)524-5383

Notes:	
Clean waste, replace much	1
Certification:	
If no maintenance is required, certify the following:	
"I certify that the inspection is complete and that no action is necessa	ary at this time."
Signature of Inspector	Date
	maletian by a next income tax
If maintenance is required, provide a time frame for maintenance cor Upon maintenance completion, re-inspect and certify the following:	inpletion. ON NEXT INSPECTION
"I certify that all recommended maintenance is complete and no add	itional action is necessary at this time."
	Parts
Signature of Inspector	Date
Next inspection date:	



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/18/14			Inspector Name:	Ame	e vi a	Wenunt	
Type of BMP: Roof F	ilterra		Inspection Date:_	03/18	7/1	4	
BMP ID #:3			Filterra Size:	5'×7'			
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Υ	N					
Damage to Box Structure?	Y	(N)					
Damage to Grate?	Y	(S)					
Is Bypass Clear?	\bigcirc	N					
			Waste				
Silt/Clay	Υ	N					
Cups/Bags/Trash	0	N					
Leaves	0	N					
Other	Υ	N					
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	7		Note: If depth fromulch is added un			to surface of mulch	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Υ	(1)	Mulch Replacement or Addition Necessary?	Ø _N	1	ount of Mulch ition or Replacement	nt Needed (in.):
Stones in Need of Replacement?	Υ	(8)	Type of Mulch to Be Added or Replaced?				
			Plantings				
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#2		
Height Above Grate? (ft.)	5'		Health of plant(s)	Health of plant(s) Alive/Dead			Alive/Dead
Stem Diameter/Caliper? (in.)	1.25"		Damage to plant(s)?		Y. ®	Y/N
Width at Widest Point? (ft.)	1.5'		Plant(s) replaced	?		Y / (0)	Y/N



Fax: (804)524-5383

Notes:	
Clean waste, replace m	much
Certification:	
If no maintenance is required, certify the following:	Add to the all
"I certify that the inspection is complete and that no action is necessary a	at this time."
Signature of Inspector	Date
If maintenance is required, provide a time frame for maintenance compl Upon maintenance completion, re-inspect and certify the following:	etion: by next inspection
"I certify that all recommended maintenance is complete and no addition	nal action is necessary at this time."
Signature of Inspector	Date
Next inspection date:	



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/18/14			Inspector Name:	Am.	e 1; e	L wenun	+
Type of BMP: Rooc	Filherra	_	Inspection Date:	03/	18/1	4	
BMP ID #: 4			Filterra Size:	5'×1	1		
Component			Comments:				
		Initia	l Observations (Cir	cle Y/N)			
Standing Water?	Y	N					
Damage to Box Structure?	Υ	N					
Damage to Grate?	Y	2					
ls Bypass Clear?	0	N					
			Waste				
Silt/Clay	Υ	(1)					-
Cups/Bags/Trash	0	N					
Leaves	9	N					
Other	Υ	8					
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.5	•	Note: If depth from mulch is added un				h exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	(1)	Mulch Replacement or Addition Necessary?	Q _N	1	ount of Mulch ition or Replaceme 4-'	ent Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to	Be Added	or R	eplaced?	
nepideemen:			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	throat o esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	3.5'				Alive/Dead	Alive/Dead	
Stem Diameter/Caliper? (in.)	1"		Damage to plant(s)?		Y.(N)	Y/N
Width at Widest Point? (ft.)	3'		Plant(s) replaced	?		Y.Ø	Y/N



Notes:

Capital Outlay Facilities PO Box 9044 Virginia State University, VA Phone: (804)524-3971

Fax: (804)524-5383

Clean waste, replace	much
Certification:	
If no maintenance is required, certify the following: "I certify that the inspection is complete and that no action is necessar	v at this time."
Techtif, that the moposition is complete and the model of the moposition is complete and the model of the moposition is complete and the moposition is comp	,
Signature of Inspector	Date
If maintenance is required, provide a time frame for maintenance com Upon maintenance completion, re-inspect and certify the following:	pletion: by nextinspection
"I certify that all recommended maintenance is complete and no addit	ional action is necessary at this time."
Signature of Inspector	Date
Next inspection date:	
Next inspection date:	

2



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/18/14			Inspector Name: America		wenunt		
Type of BMP: Roof	Filherra		Inspection Date:	031	18/1	4	
BMP ID #: 5			Filterra Size:	5'×7'			
Component			Comments:				
		Initia	l Observations (Cir	cle Y/N)			
Standing Water?	Υ	N					
Damage to Box Structure?	Υ	N					
Damage to Grate?	Υ	N					
Is Bypass Clear?	0	N					
			Waste				
Silt/Clay	0	N					
Cups/Bags/Trash	0	N					
Leaves	0	N					
Other	Υ	N					
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.5	1	Note: If depth from mulch is added un			o surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Υ	N	Mulch Replacement or Addition Necessary?	Ø _N	1	unt of Mulch tion or Replaceme	nt Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to	Be Added	or Re	eplaced?	
inepideomene.			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inle	throat o esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	3.5'		Health of plant(s)			(live) Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant(s)?		YÆ	Y/N
Width at Widest Point? (ft.)	3'		Plant(s) replaced	?		Y. ©	Y/N



Notes:

Capital Outlay Facilities PO Box 9044 Virginia State University, VA Phone: (804)524-3971

Phone: (804)524-3971 Fax: (804)524-5383

Clean	waste, replace	much
	, ,	
Certification:	certify the following:	
f no maintenance is required,		sarv at this time "
f no maintenance is required,	certify the following: complete and that no action is neces	sary at this time."
f no maintenance is required,		sary at this time."
f no maintenance is required,		sary at this time." Date
f no maintenance is required,	complete and that no action is neces	
no maintenance is required, I certify that the inspection is	s complete and that no action is neces Signature of Inspector	Date
no maintenance is required, certify that the inspection is maintenance is required, pro	s complete and that no action is neces Signature of Inspector	Date ompletion: by nextinspection
no maintenance is required, certify that the inspection is maintenance is required, propon maintenance completion	Signature of Inspector ovide a time frame for maintenance on, re-inspect and certify the following	Date ompletion: by nextinspection
no maintenance is required, I certify that the inspection is maintenance is required, propon maintenance completion	Signature of Inspector ovide a time frame for maintenance on, re-inspect and certify the following	Date ompletion: by nextinspection
no maintenance is required, I certify that the inspection is maintenance is required, pro	Signature of Inspector ovide a time frame for maintenance on, re-inspect and certify the following	Date ompletion: by nextinspection
no maintenance is required, I certify that the inspection is maintenance is required, propon maintenance completion	Signature of Inspector ovide a time frame for maintenance on, re-inspect and certify the following	Date ompletion: by nextinspection
f no maintenance is required, I certify that the inspection is f maintenance is required, pro Jpon maintenance completio	Signature of Inspector ovide a time frame for maintenance on, re-inspect and certify the following and maintenance is complete and no ad	ompletion: by nextinspection: ditional action is necessary at this time."
f no maintenance is required, I certify that the inspection is f maintenance is required, pro Jpon maintenance completio	Signature of Inspector ovide a time frame for maintenance on, re-inspect and certify the following and maintenance is complete and no ad	ompletion: by nextinspection: ditional action is necessary at this time."



Capital Outlay Facilities PO Box 9044

Virginia State University, VA Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/19/14			Inspector Name:	A	me	ita wenu	nt
Type of BMP: Roof	Filterro	<u> </u>	Inspection Date:	G 3 I	181	14	
BMP ID #:			Filterra Size:	5' x -	7 '		
Component			Comments:				
		Initial	Observations (Circ	cle Y/N)			
Standing Water?	Υ	N					
Damage to Box Structure?	Υ	N					
Damage to Grate?	Υ	N					
Is Bypass Clear?	0	N					
			Waste				
Silt/Clay	Υ	\mathbb{N}					
Cups/Bags/Trash	0	N					
Leaves	0	N					
Other	Υ	N		(n)			
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.	5'	Note: If depth from mulch is added un			to surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	N	Mulch Replacement or Addition Necessary?	(S)		ount of Mulch tion or Replaceme	nt Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to Be Added or Replaced?				
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	throat of esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	4.5		Health of plant(s)		Alive/Dead	Alive/Dead	
Stem Diameter/Caliper? (in.)	<u>5"</u>		Damage to plant(s)?		Y.(N)	Y/N
Width at Widest Point? (ft.)	3'		Plant(s) replaced	?		Y/ © >	Y/N



Phone: (804)524-3971 Fax: (804)524-5383

	Clean	waste, replace	mulch
Certificati	ion:		
lf no mair	tenance is required,	certify the following:	
If no mair	tenance is required,	certify the following: complete and that no action is necessa	ary at this time."
If no mair	tenance is required,		Date
If no mair "I certify t	ntenance is required, that the inspection is	complete and that no action is necessal statements of the sector	
"I certify t If mainter Upon mai	ntenance is required, that the inspection is hance is required, pro ntenance completion	Signature of Inspector vide a time frame for maintenance con, re-inspect and certify the following:	Date
If no mair "I certify t If mainter Upon mai	ntenance is required, that the inspection is hance is required, pro ntenance completion	Signature of Inspector vide a time frame for maintenance con, re-inspect and certify the following:	Date mpletion: by next inspection



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: <u>03/19/14</u>			Inspector Name:	an	neii	a wehunt	
Type of BMP: 丸のC F	ilterra		Inspection Date:	03/	18/	14	_
BMP ID #: 16			Filterra Size:	5' × 7	ı		-
Component			Comments:				
		Initia	Observations (Circ	cle Y/N)			
Standing Water?	Υ	<u>(N</u>					
Damage to Box Structure?	Υ	Ø					
Damage to Grate?	Υ	Ø					
Is Bypass Clear?	Ø	N					
			Waste				
Silt/Clay	Υ	(1)					
Cups/Bags/Trash	(7)	N					
Leaves	(2)	N					
Other	Participation	N	E-C m	atrin	9		
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.5	ı	Note: If depth fromulch is added un			o surface of mulch	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	N	Mulch Replacement or Addition Necessary?	S S	Addi	unt of Mulch tion or Replaceme	nt Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to	Be Adde	d or Re	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre- plant to the right throat of the inlet	e throat o esents th facing th	of the e	#1	#2
Height Above Grate? (ft.)	7.5		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant(s)?		Y.N	Y/N
Width at Widest Point?	21		Plant(s) replaced	?		YN	Y/N

1



Fax: (804)524-5383

Notes:	Clean waste, replace mulch; note; have EC-matting in place over new mulch to prevent scour

Certification:		
f no maintenance is re	quired, certify the following:	
"I certify that the inspe	ection is complete and that no action is necess	sary at this time."
7.5	Signature of Inspector	Date
If maintenance is requi Upon maintenance cor	red, provide a time frame for maintenance completion, re-inspect and certify the following:	ompletion: by next inspection
"I certify that all recom	nmended maintenance is complete and no ad	ditional action is necessary at this time."
-	Signature of Inspector	Date
Next inspection date:_		

2



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/18/14			Inspector Name:	Ame	eria	- wehunt	
Type of BMP: 2006 1	i Herra		Inspection Date:	031	18	1 4	
BMP ID #:17			Filterra Size:	5'×7	, ,		
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Υ	N					
Damage to Box Structure?	Υ	(1)					
Damage to Grate?	Υ	(2)					
Is Bypass Clear?	V	N					
			Waste				
Silt/Clay	Υ						
Cups/Bags/Trash	Υ	Ø					
Leaves	8	N					
Other	0	N	E-c ma	++: ~ g			
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.1	·	Note: If depth from mulch is added un			to surface of mulch of 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	(1)	Mulch Replacement or Addition Necessary?	(V)		ount of Mulch ition or Replacemen 6.5"	nt Needed (in.):
Stones in Need of Replacement?	Υ	(N)	Type of Mulch to	Be Added	d or R	eplaced?	
перисентент			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	throat o esents the facing th	f the	#1	#2
Height Above Grate? (ft.)	<u> </u>	_	Health of plant(s)			Aliv /Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant(s)?		Y(N)	Y/N
Width at Widest Point? (ft.)	3'		Plant(s) replaced	?		Y. @	Y/N



none: (804)524-3971 Fax: (804)524-5383

lotes:	Clean waste, replace mulch. Note leave EC-matting in place over new
	mulch to prevent Scour
ertificat	

Certification:		
If no maintenance i	s required, certify the following:	
"I certify that the in	spection is complete and that no action is necess	ary at this time."
-	Signature of Inspector	Date
Upon maintenance	equired, provide a time frame for maintenance co completion, re-inspect and certify the following: commended maintenance is complete and no add	
-	Signature of Inspector	Date
Next inspection dat	re:	



none: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 63/18/14			Inspector Name:	Am	elis	wenunt	
Type of BMP: Rcof	F: Herro		Inspection Date:	031	18	114	
BMP ID #: 18			Filterra Size:	5 × 7	1		
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Υ	N					
Damage to Box Structure?	Υ	N					
Damage to Grate?	Υ	N					
Is Bypass Clear?	M	N					
			Waste				
Silt/Clay	Υ	2					
Cups/Bags/Trash	0	N					
Leaves	Q	N					
Other	0	N	E-c mat	Hing			
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1-6	,	Note: If depth from mulch is added un			to surface of mulc of 14" is achieved.	h exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	N	Mulch Replacement or Addition Necessary?	(S) N		ount of Mulch ition or Replaceme 5.25	ent Needed (in.):
Stones in Need of Replacement?	Υ	(2)	Type of Mulch to	Be Added	or R	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	throat of esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	7.5		Health of plant(s)			Alive Dead	Alive/Dead
Stem Diameter/Caliper? (in.)			Damage to plant(s)?		Y@	Y/N
Width at Widest Point? (ft.)	2.5'		Plant(s) replaced?	?		Y.	Y/N



Phone: (804)524-3971 Fax: (804)524-5383

Notes:	Clean waste, replace mulch note,
	have EC-matting in place over new mulch to prevent scour
	mulch to prevent scour

Certification:		
If no maintenance is re	equired, certify the following:	
"I certify that the insp	ection is complete and that no action is neces:	sary at this time."
-	Signature of Inspector	Date
If maintenance is requ Upon maintenance co	nired, provide a time frame for maintenance completion, re-inspect and certify the following:	ompletion: bynext inspection
"I certify that all recor	nmended maintenance is complete and no ad	ditional action is necessary at this time."
-	Signature of Inspector	Date
Next inspection date:		



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Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/18/14			Inspector Name:	Am	elia	wenun	r
Type of BMP: なった	Fi Herr	a	Inspection Date:	0311	101	14	
BMP ID #:	9		Filterra Size:	5'×7'			
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Υ	(1)					
Damage to Box Structure?	Υ	0					
Damage to Grate?	Υ	(1)					
Is Bypass Clear?	(2)	N	1				
			Waste				
Silt/Clay	Υ	(1)					
Cups/Bags/Trash	Y	N					
Leaves	0	N					
Other	0	N	E-C mas	Hing			
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.5	5 '	Note: If depth from mulch is added un				
			Mulch				
Netting in Need of Replacement?	Υ	(N)	Mulch ' Replacement or Addition Necessary?	S	1	unt of Mulch tion or Replacem	ent Needed (in.):
Stones in Need of Replacement?	Υ	(N)	Type of Mulch to	Be Added	or Re	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inle	e throat of esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	_6'		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper?			Damage to plant((s)?		YØ	Y/N
Width at Widest Point? (ft.)	3.5'		Plant(s) replaced	?		Y.Ø	Y/N



Fax: (804)524-5383

Notes:	Clean waste, replace much. Note,
	leave Ec-matting in place over new
	mulch to prevent scour.
	· ·

Certification:		
f no maintenance is	required, certify the following:	
"I certify that the ins	pection is complete and that no action is neces	sary at this time."
\- <u>-</u>	Signature of Inspector	Date
	uired, provide a time frame for maintenance completion, re-inspect and certify the following	ompletion: by next inspection
"I certify that all reco	mmended maintenance is complete and no ad	ditional action is necessary at this time."
=	Signature of Inspector	Date
Next inspection date		



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Virginia State University, VA Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/16/14			Inspector Name:	Av	nei	ia wenyn	+
Type of BMP: たつのに	F: Iterra		Inspection Date:	031	18/1	4	
BMP ID #:20			Filterra Size:	5'x 7'			
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Υ	(1)					
Damage to Box Structure?	Υ	(1)					
Damage to Grate?	Υ	1					
Is Bypass Clear?	(1)	N					
			Waste				
Silt/Clay	Υ	\bigcirc					
Cups/Bags/Trash	0	N					
Leaves	Ø	N					
Other	0	N	E-C ma	nti ng			
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.6		Note: If depth from			o surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	N	Mulch Replacement or Addition Necessary?	O _N		unt of Mulch tion or Replaceme 5. 25 "	nt Needed (in.):
Stones in Need of Replacement?	Υ	(N	Type of Mulch to	Be Added	or Re	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	throat of esents the facing the	fthe	#1	#2
Height Above Grate? (ft.)	6'		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant(s)?		YM	Y/N
Width at Widest Point? (ft.)	2'	_	Plant(s) replaced?	•		YN	Y/N



hone: (804)524-3971 Fax: (804)524-5383

Notes:	Clean waste, replace mulch. Note,
	leave EC-matting in place over new
	mulch to prevent scour.

no maintenance is r	equired, certify the following:		
I certify that the insp	pection is complete and that no action is neces	sary at this time."	
·	Signature of Inspector	Date	
f maintenance is requ	uired, provide a time frame for maintenance co	ompletion: by nextins (ection
opon mamicinance of	ompletion, re-inspect and certify the following		
	ompletion, re-inspect and certify the following mmended maintenance is complete and no ad		

2



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Type of BMP: Roof Filterra			Inspector Name: Ameria wenunt				
			Inspection Date: 03 l 18 /14				
BMP ID #: 2.1			Filterra Size:	5'×7'			
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Υ	(N)					
Damage to Box Structure?	Υ	(()					
Damage to Grate?	Υ	0					
Is Bypass Clear?	0	N					
			Waste				
Silt/Clay	Υ	N					
Cups/Bags/Trash	Ø	N					
Leaves	0	N					
Other	(b)	N	Erc matting				
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	2	1	Note: If depth from mulch is added un			to surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	N	Mulch Replacement or Addition Necessary?	(S) z	1	unt of Mulch tion or Replaceme ເດ້	nt Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to	Be Added	or Re	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2	
Height Above Grate? (ft.)	51		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)		,	Damage to plant(s)?		Y. (N)	Y/N
Width at Widest Point? (ft.)	21		Plant(s) replaced	?		Y / (0)	Y/N



Fax: (804)524-5383

Notes:	Clean waste, replace mulch. Note,
	have EC-matting in place over new
	much to prevent scar.
	·

Certification:		
If no maintenar	nce is required, certify the following:	
"I certify that th	he inspection is complete and that no action is necess	sary at this time."
	Signature of Inspector	Date
Upon maintena	is required, provide a time frame for maintenance connection, re-inspect and certify the following:	1
"I certify that a	II recommended maintenance is complete and no add	dictional action is necessary at this time.
	Signature of Inspector	Date
Next inspection	n dates	

2



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03118/14			Inspector Name:	Am	eric	wehunt	
Type of BMP: Iniet Eilterra			Inspection Date: 03118/14				
BMP ID #:7	Filterra Size:	5'×7	ı				
Component			Comments:				
		Initia	Observations (Circ	cle Y/N)			
Standing Water?	Y	\bigcirc					
Damage to Box Structure?	Y	N					
Damage to Grate?	Y	(N)					
Is Bypass Clear?	(V)	N					
			Waste				
Silt/Clay	(Y)	N					
Cups/Bags/Trash	\odot	N					
Leaves	0	N					
Other	Υ	N					
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.2		Note: If depth fromulch is added un			o surface of mulch f 14" is achieved.	exceeds 14",
			Mulch	_			
Netting in Need of Replacement?	Y	(N)	Mulch Replacement or Addition Necessary?	S _z		unt of Mulch tion or Replaceme 6.5"	nt Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to	Be Added	or Re	eplaced?	
-			Plantings				
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2	
Height Above Grate? (ft.)	_6'		Health of plant(s)			Alive Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	_ 2 "		Damage to plant(s)?		Y. (Y/N
Width at Widest Point? (ft.)	41		Plant(s) replaced	?		Y. 4 \ \	Y/N

1



Fax: (804)524-5383

Notes: Clan waste, rep	lace mulch
Certification:	
If no maintenance is required, certify the following:	
'I certify that the inspection is complete and that no action	is necessary at this time."
Signature of Inspector	Date
	4
If maintenance is required, provide a time frame for mainte Upon maintenance completion, re-inspect and certify the f	enance completion: by next inspection ollowing:
'I certify that all recommended maintenance is complete a	nd no additional action is necessary at this time."
-	
Signature of Inspector	Date
Signature of Inspector Next inspection date:	Date



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Type of BMP: 1916+ Filterra			Inspection Date: <u>03/18/14</u>				
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Υ	N					
Damage to Box Structure?	Υ	N					
Damage to Grate?	Υ	(
Is Bypass Clear?	9	N					
			Waste				
Silt/Clay	Ø	N					
Cups/Bags/Trash	0	N					
Leaves	(3)	N					
Other	Υ	0		•			
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.3		Note: If depth from mulch is added un			to surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	(N)	Mulch Replacement or Addition Necessary?	⊗ _N		ount of Mulch tion or Replacemer	nt Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to	Be Added	or Re	eplaced?	
neprocentent.			Plantings				
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2	
Height Above Grate? (ft.)	<u> </u>		Health of plant(s)			Alive Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	2"	-	Damage to plant((s)?		Y,(\bar{N})	Y/N
Width at Widest Point? (ft.)	3'		Plant(s) replaced	?		Y/N	Y/N



Phone: (804)524-3971 Fax: (804)524-5383

	lean waste, replac	e much
Certification:	nce is required, certify the following:	
	he inspection is complete and that no action is necess	sary at this time."
1	Signature of Inspector	Date
lf maintenance Upon mainten	Signature of Inspector e is required, provide a time frame for maintenance coance completion, re-inspect and certify the following:	ompletion: by next inspection
ľ	e is required, provide a time frame for maintenance co	ompletion: by next inspection
	e is required, provide a time frame for maintenance co ance completion, re-inspect and certify the following: all recommended maintenance is complete and no ad	ompletion: by next inspection ditional action is necessary at this time."
ľ	e is required, provide a time frame for maintenance co ance completion, re-inspect and certify the following:	ompletion: by next inspection



Capital Outlay Facilities
PO Box 9044

Virginia State University, VA Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/18/14 Type of BMP: 10/10+ F: 110/10 BMP ID #: 9			Inspection Date: 03/18/14				
			Component	1 = -		Comments:	
		Initia	l Observations (Cir	cle Y/N)			
Standing Water?	Υ	N					
Damage to Box Structure?	Υ	N					
Damage to Grate?	Υ	®					
Is Bypass Clear?	9	N					
			Waste				
Silt/Clay	Y	N					
Cups/Bags/Trash	9	N					
Leaves	\odot	N					
Other	Υ	(N)					
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.3	ů.	Note: If depth from mulch is added un			to surface of mulch	n exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	N	Mulch Replacement or Addition Necessary?	⊗ _z		unt of Mulch tion or Replaceme	nt Needed (in.):
Stones in Need of Replacement?	Υ	(2)	Type of Mulch to	Be Added	or Re	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inle	e throat or esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	_5'		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	_2"_		Damage to plant(s)?		Y. ((1)	Y/N
Width at Widest Point? (ft.)	_4'		Plant(s) replaced	?		Y.	Y/N



Phone: (804)524-3971 Fax: (804)524-5383

Notes:	ean waste,	, replace	mulch	
Certification:	ce is required, certify the followin	η σ :		
	e inspection is complete and that		t this time."	
	Signature of Insp	ector	Date	
If maintenance Upon maintena	s required, provide a time frame f nce completion, re-inspect and ce	for maintenance comple rtify the following:	etion: bynext in	spection
"I certify that a	recommended maintenance is co	omplete and no addition	nal action is necessary at this tim	ne."
	Signature of Insp	pector	Date	
Next inspection	date:			



Capital Outlay Facilities PO Box 9044

Virginia State University, VA Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/18/14			Inspector Name:	Am	e 1: 0	wenun	+
Type of BMP: iniet Filterra			Inspection Date: 03/19/14				
BMP ID #:			Filterra Size:	8' x 14			
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Υ	N					
Damage to Box Structure?	Υ	\boxtimes					
Damage to Grate?	Υ	(N)					
Is Bypass Clear?	9	N					
			Waste				
Silt/Clay	\bigcirc	N	all alo	ng s	ton	e	
Cups/Bags/Trash	0	N					
Leaves		N					
Other	Υ	(1)					
			Media				
Depth from Top of Slab to Surface of Mulch (in.)			Note: If depth from mulch is added up				
			Mulch				
Netting in Need of Replacement?	Υ	N	Mulch Replacement or Addition Necessary?	Mulch Replacement or Addition Addition Amount of Mulch Addition or Replacement Needed (ent Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to	Be Adde	d or Re	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2	
Height Above Grate? (ft.)	8,	9 '	Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	١٠٤ "	1.5"	Damage to plant((s)?		Y / (\)	Y/ 心
Width at Widest Point? (ft.)	4.5	A.5'	Plant(s) replaced	?		Y. (()	Y/ W



Fax: (804)524-5383

Notes:	Cilan	waste			
Certification:					
If no mainten	ance is required, ce	rtify the following:			
"I certify that	the inspection is co	mplete and that no action is	necessary at this	time."	
	-	Signature of Inspector		Date	
				1- 0	L
If maintenanc Upon mainter	e is required, provi nance completion, i	de a time frame for maintena e-inspect and certify the follo	ance completion:_ owing:	by nex	tinspection
"I certify that	all recommended r	naintenance is complete and	no additional act	ion is necessary a	t this time."
		Signature of Inspector		Date	
Next inspection	on date:				



Phone: (804)524-3971 Fax: (804)524-5383

Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Type of BMP: Inter Filterra			Inspection Date: 03/18/14				
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Υ	N					
Damage to Box Structure?	Υ	(N)					
Damage to Grate?	Υ	(1)					
Is Bypass Clear?	(V)	N					
			Waste				
Silt/Clay	(Y)	N					
Cups/Bags/Trash	\bigcirc	N					
Leaves	0	N					
Other	Y	\bigcirc					
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	8	,,	Note: If depth from mulch is added un				h exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	(2)	Mulch Replacement or Addition Necessary?	Š		unt of Mulch tion or Replacem	ent Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to	Be Added	d or Re	eplaced?	
replacement:			Plantings				
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2	
Height Above Grate? (ft.)	<u> </u>	6 '	Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	1.5"	1.5"	Damage to plant(s)?		Y/(\(\tau\)	Y , (3),
Width at Widest Point? (ft.)	4.5	5'	Plant(s) replaced	?		Y/ (()	Y/ ()



Fax: (804)524-5383

	ean waste	
Certification:		
	s required, certify the following:	
f no maintenance is	s required, certify the following: spection is complete and that no action is necessary at	this time."
f no maintenance is		this time." Date
f no maintenance is 'I certify that the in	spection is complete and that no action is necessary at	Date
f no maintenance is 'I certify that the in	spection is complete and that no action is necessary at Signature of Inspector quired, provide a time frame for maintenance complet	Date
f no maintenance is 'I certify that the in	Signature of Inspector quired, provide a time frame for maintenance complet completion, re-inspect and certify the following:	Date
'I certify that the in	Signature of Inspector quired, provide a time frame for maintenance complet completion, re-inspect and certify the following:	Date tion: by next inspection al action is necessary at this time."



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Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/18/14			Inspector Name:	An	nel:	a wehun	+	
Type of BMP: Inter Filterra			Inspection Date: 02 / 18 / 14					
BMP ID #: 12			Filterra Size:	5' 4 9'				
Component			Comments:					
		Initia	l Observations (Circ	cle Y/N)				
Standing Water?	Υ	N						
Damage to Box Structure?	Υ	N						
Damage to Grate?	Υ	(1)						
Is Bypass Clear?	0	N						
			Waste					
Silt/Clay	Ø	N						
Cups/Bags/Trash	8	N						
Leaves	Ø	(A)						
Other	Υ	N						
			Media					
Depth from Top of Slab to Surface of Mulch (in.)	1.5	1	Note: If depth from top of slab to mulch is added until the depth of			exceeds 14",		
			Mulch					
Netting in Need of Replacement?	Y	N	Mulch Replacement or Addition Necessary? Amount of Mulch Addition or Replacement Nec		nt Needed (in.):			
Stones in Need of Replacement?	Y	N	Type of Mulch to Be Added or Replaced?					
neplacement;			Plantings					
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2		
Height Above Grate? (ft.)	5'		Health of plant(s)		Alive Dead	Alive/Dead		
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant(s)?		Y. (\\\	Y/N	
Width at Widest Point? (ft.)	_4'		Plant(s) replaced	?		Y.(N)	Y/N	



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Notes: Clan waste, replacemu	lch
Certification:	
no maintenance is required, certify the following: certify that the inspection is complete and that no action is necessary at this	time."
Signature of Inspector	Date
maintenance is required, provide a time frame for maintenance completion:_ lpon maintenance completion, re-inspect and certify the following:	by next inspection
f maintenance is required, provide a time frame for maintenance completion: Upon maintenance completion, re-inspect and certify the following: I certify that all recommended maintenance is complete and no additional act Signature of Inspector	



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Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/19/14			Inspector Name:	Am	e i i c	wehun	+
Type of BMP:	Fi Herra	2	Inspection Date:	031	18/	14	
BMP ID #: 13			Filterra Size:	5' × 7	, ,		
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Y	N					
Damage to Box Structure?	Y	N					
Damage to Grate?	Υ	N				-	
ls Bypass Clear?	(Y)	N					
			Waste				
Silt/Clay	0	N					
Cups/Bags/Trash	0	N					
Leaves	0	N					
Other	Y	N					
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.1		Note: If depth from mulch is added u				
			Mulch				
Netting in Need of Replacement?	Y	N	Mulch Replacement or Addition Necessary?	N N		unt of Mulch tion or Replacem	ent Needed (in.):
Stones in Need of Replacement?	Υ	N	Type of Mulch to Be Added or Replaced?				
			Plantings				
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2	
Height Above Grate? (ft.)	6'		Health of plant(s)			Alive Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant(s)?		# () N	Y/N
Width at Widest Point? (ft.)	5'	-	Plant(s) replaced	?		Y.(\)	Y/N



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* tree need it while s	eds to be parking worth	e pruned	+0	avoi à	cars	prom	damag	inq
Certification: If no maintenance is r "I certify that the insp			ion is ne	cessary at th	nis time."			
-	Signa	ture of Inspector			Date			
If maintenance is requ					on: by	next	inspec	tim
"I certify that all recor	mmended maint	enance is complet	e and no	additional	action is n	ecessary at	this time."	
	Signa	ture of Inspector			Date		_	
Next inspection date:		_						



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Detention, Retention, & Impoundment BMPs

Virginia State University Inspection & Maintenance Checklist

Date: <u>63 / 27 / 14</u> BMP ID #: 14			Inspectio	Inspector Name: Americ wenunt Inspection Date: 03/27/14 Type of BMP: Enhances Extended Detent				
Component:	Yes	No	N/A	Comments:				
. Embankment		William A	2					
A. Top		111	No della	7				
1. Visual settlement		V						
2. Misalignment		V						
3. Cracking		✓						
B. Upstream Slope		May "		· follow up with small spot				
1. Erosion		/		nent inspense				
Adequate groundcover	✓			- ground hog living under				
3. Trees, shrubs, or other vegetation		4		riser top				
4. Cracks, settlements, or bulges		/						
5. Rodent holes	V							
. Downstream Slope	1.110							
1. Erosion		/						
2. Adequate groundcover	1							
3. Trees, shrubs, or other vegetation		~						
4. Cracks, settlements, or bulges		/						
5. Rodent holes		/						
. Drainage/seepage control								
 Internal drains flowing 		/						
2. Seepage at toe		V						
Emergency Spillway	1000	A PRO	149.7					
Eroding or backcutting			1					
2. Obstruction								



Component:	Yes	No	N/A	Comments:
3. Leaking			/	
4. Operational			/	
II. Principal Spillway Barrel			a rem	
Seepage into pipe		✓		
2. Debris present		/		
Displaced or offset joints		/		
V. Outlet Protection/Stilling Basin				
1. Obstruction		1		
2. Adequate riprap	~	Ø8*		
3. Undercutting at the outlet		/		
Outlet channel scour		/		
V. Internal Basin Area			1781217	
A. Low Flow Channel*				
1. Erosion		/		
Adequate vegetation	/			
3. Obstruction		/		
B. Basin Bottom & Side Slopes				. small amt. of trash
1. Erosion		1		
2. Adequate stabilization	/			
Sediment accumulation		1		
4. Floating debris	1			
5. High water marks		/		
6. Shoreline protection	✓			
C. Inflow Channels/Pipes				
1. Erosion	1			
Adequate stabilization	1			



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Yes	No	N/A	Comments:	
	✓			
	✓			
		(
		1		
		1		
		~		
		~		
	Yes			

Notes: This faculity is Scheduled to be Replaced in the upcoming year. Continue to monitor groundhoghole at paser outlet to ensure that it doesn't become a concern prior to facility replacement

Certification:		
If no maintenance is requ	uired, certify the following:	
"I certify that the inspect	tion is complete and that no action is necessary at thi Signature of Inspector	is time." Date
4	amelia Wehunt	3/27/14
	ed, provide a time frame for maintenance completion oletion, re-inspect and certify the following:	1:
"I certify that all recomm	nended maintenance is complete and no additional a	ction is necessary at this time."
	Signature of Inspector	Date
-		-
Next inspection date:		

3



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Detention, Retention, & Impoundment BMPs

Virginia State University Inspection & Maintenance Checklist

Date: <u>g3/27/14</u>			Inspector Name: Amelia usehunt				
			Inspection Date: 03/27/14 Type of BMP: Extended Dotention Basin				
BMP ID #: 29							
Component:	Yes	No	N/A	Comments:			
I. Embankment	無關		1000				
А. Тор							
1. Visual settlement		✓					
2. Misalignment		~					
3. Cracking		~					
B. Upstream Slope	4			· two large settlement(
1. Erosion	/			one of which may have			
2. Adequate groundcover	/			been caused by rodowts			
Trees, shrubs, or other vegetation		/					
Cracks, settlements, or bulges		/					
5. Rodent holes	/						
C. Downstream Slope							
1. Erosion		✓					
2. Adequate groundcover	1						
3. Trees, shrubs, or other vegetation		✓					
Cracks, settlements, or bulges		~					
5. Rodent holes		✓					
E. Drainage/seepage control							
 Internal drains flowing 	-	~					
2. Seepage at toe		~					
II. Emergency Spillway		100					
Eroding or backcutting			✓				
2. Obstruction			1				

1



Component:	Yes	No	N/A	Comments:
3. Leaking			J	
4. Operational			~	
III. Principal Spillway Barrel				
 Seepage into pipe 		✓		
2. Debris present		~		
Displaced or offset joints		~		
IV. Outlet Protection/Stilling. Basin	3 2		Sel Li	
1. Obstruction		~		
2. Adequate riprap	~			<u>}</u>
Undercutting at the outlet		~		
4. Outlet channel scour		~		
V. Internal Basin Area			7-0	
A. Low Flow Channel*				
1. Erosion		/		
2. Adequate vegetation	✓			
3. Obstruction		/		
B. Basin Bottom & Side Slopes				· lots of trash
1. Erosion		~		
2. Adequate stabilization	~			
Sediment accumulation		~		
4. Floating debris		~		
5. High water marks		~		
6. Shoreline protection		/		
C. Inflow Channels/Pipes		NI ===		- oil sheet at inset
1. Erosion	✓			. oil sneet at inset
2. Adequate stabilization	~			

2



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omponent:	Yes	No	N/A	Comments:
3. Undercutting	V			
4. Obstruction		V		
D. Sediment Forebay	1			
Sediment accumulation			V	
Stable overflow into basin			/	
E. Upland Landscaping			V	
F. Aquatic Landscaping			1	

Notes:	Clean out troop and Stabilize side slopes where bare. Check upstream oil/water separator to see it it needs to be pumped out.
Certifica	vian.

Certification:			
If no maintenance is req	uired, certify the following:		
"I certify that the inspec	tion is complete and that no action is necessary	at this time."	
	Signature of Inspector	Date	
			4
	ed, provide a time frame for maintenance comp pletion, re-inspect and certify the following:	oletion: by next inspect	S
	present, to mapped and serior, the tonowing		
"I certify that all recomm	nended maintenance is complete and no additi	onal action is necessary at this time."	
	Signature of Inspector	Date	
Next inspection date:			



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Detention, Retention, & Impoundment BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03 / 27 / 14		3/13/17	Inspector Name: Ameria Wenung				
			Inspection	n Date:_ @3/27/14			
BMP ID #: 50 36		_	Type of BMP: Retention Barin III				
Component:	Yes	No	N/A	Comments:			
I. Embankment							
А. Тор							
1. Visual settlement		V					
2. Misalignment		~					
3. Cracking		V					
B. Upstream Slope				- Recommend re-setding			
1. Erosion		V		after brush lovergrown			
2. Adequate groundcover	V						
Trees, shrubs, or other vegetation	~			- Remove freeslovergrowh			
4. Cracks, settlements, or bulges		1		_ crow 03 4 V y down			
5. Rodent holes		V					
C. Downstream Slope				Recommend re-seeding			
1. Erosion		1		is removed			
2. Adequate groundcover	✓						
Trees, shrubs, or other vegetation	/			· exmove trees fovergrown			
Cracks, settlements, or bulges		/		from uset os stope			
5. Rodent holes		V					
E. Drainage/seepage control				•			
 Internal drains flowing 	~						
2. Seepage at toe							
I. Emergency Spillway							
 Eroding or backcutting 		/					
2. Obstruction		1					



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Component:	Yes	No	N/A	Comments:
3. Leaking		1		
4. Operational		~		
II. Principal Spillway Barrel				
Seepage into pipe		✓		
2. Debris present		1		
Displaced or offset joints		/		
V. Outlet Protection/Stilling Basin				
1. Obstruction		✓		
2. Adequate riprap	/			
3. Undercutting at the outlet		/		
 Outlet channel scour 		/		
V. Internal Basin Area				
A. Low Flow Channel*			1-3-2	
1. Erosion		/		
2. Adequate vegetation	~			
3. Obstruction		✓		
B. Basin Bottom & Side Slopes		11		· wet port applies to
1. Erosion		1		
2. Adequate stabilization	V			· trash on aquesic bench
3. Sediment accumulation		/		
4. Floating debris	1			
5. High water marks	1			
6. Shoreline protection			~	
C. Inflow Channels/Pipes				
Erosion Adequate stabilization				



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Component:	Yes	No	N/A	Comments;
3. Undercutting				
4. Obstruction		✓		
D. Sediment Forebay				. none visible sediment
 Sediment accumulation 		1		
Stable overflow into basin	✓			
E. Upland Landscaping	V			
F. Aquatic Landscaping	1			

Landscaping			
*Only applies to Extend	led Detention Facilities		
Notes: Refer	to comments		
	quired, certify the following: ction is complete and that no action is nec Signature of Inspector	essary at this time." Date	
	red, provide a time frame for maintenance apletion, re-inspect and certify the followin		ection
"I certify that all recom	mended maintenance is complete and no	additional action is necessary at this time."	
	Signature of Inspector	Date	
3		_	
Next inspection date:			



Intermittent Sand Filter

Virginia State University Inspection & Maintenance Checklist

Date: 03/27/14		Inspector Name: Ameria wehunt				
		Inspection Date: 0		03127114		
BMP ID #:		Type of Bi	MP: De	neware sand filter		
	Yes	No	N/A	Comments:		
I. Debris Cleanout						
A. Contributing areas clean of debris	/					
B. Filtration Facility clean of debris		1				
C. Inlets and outlets clear of debris	✓					
II. Vegetation in Contributing Drainage Ar	rea					
A. Stabilized	/					
B. Active evidence of erosion		/				
C. Area mowed and clippings removed						
III. Oil & Grease						
A. Evidence of filter surface clogging		✓				
B. Activities in drainage area to minimize oil & grease entry	✓					
IV. Water retention where required						
A. Water holding chambers at normal pool	/					
B. Evidence of leakage		1				
V. Sediment Deposition						
A. Filtration chambers clean of sediment		/				
B. Water chambers not more than ½ full of sediment		V				
VI. Structural Components						
A. Evidence of structural deterioration		1				
B. Grates are in good condition						



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	Yes	No	N/A	Comments:
C. Evidence of spalling or cracking of structural parts		✓		
VII. Outlets/Overflow Spillway				
A. Obstruction		/		
B. Adequate riprap (If applicable)			~	
C. Undercutting at the outlet			✓	
D. Outlet channel scour			/	
VIII. Overall Function of Facility				
A. Evidence of flow		/		
B. Noticeable odors		1		

Notes: Have Sedimentation chamber pumped out, remove trash and sediment, and refull with clean woder up to normal pool. Clean trash out of sand filter (hamber

Certification:		
If no maintenance is requir	red, certify the following:	
"I certify that the inspectio	n is complete and that no action is necessary at t	this time."
_	Signature of Inspector	Date
If maintenance is required, maintenance completion, i	provide a time frame for maintenance completions; provide a time frame for maintenance completions;	on: by next inspecting
"I certify that all recomme	nded maintenance is complete and no additional	action is necessary at this time."
	Signature of Inspector	Date



StormFilter BMPs

Virginia State University Inspection & Maintenance Checklist chip wyatt Date: 04/17/14 Inspector Name: amelia wehunt concrete aved Inspection Date: OA/17/14 BMP ID #: Type of BMP: Contech stormailter Maintenance required? Conditions When Maintenance is Component: Yes Yes No Comments: Needed I. Below Ground Vault Sediment Sediment depth exceeds 0.25 accumulation top of inches cartridge 0.7 sediment Sediment Sediment depth exceeds 4 inches in accumulation in vault the first chamber More than 4" of static water in the 1' water Submerged cartridge bay 24 hours after last cartridges rainfall event Trash/debris Trash and debris accumulated on accumulation compost filter bed Drain pipes and/or clean outs are Sediment in drain full of sediment and/or debris pipes or cleanouts Any part of any pipe crushed or Damaged pipes damaged due to corrosion and/or settlement Cover cannot be opened; one Access cover person cannot open the cover using damaged/not normal lifting pressure; working corrosion/deformation of cover Vault structure Cracks wider than 1/2 inch or includes cracks in evidence of soil particles entering wall or bottom; the structure through cracks; damage to the frame determination that the vault is not and/or top slab structurally sound Cracks wider than 1/2 inch at the joint of any inlet/outlet pipeor evidence of soil particles entering through the cracks Baffles corroding, cracking, Baffles warping, and/or showing signs of MIA Ladder is corroded or deteriorated, not functioning properly, not Access ladder securely secured to the structure damaged wall and/or missing rungs; cracks; misalignment II. Below Ground Cartridge Type Drawdown of water theough the Zpg media Filter Media media takes longer than one hour and/or overflow occurs frequently

cartridges

Short Circuiting

Flows do no properly enter filter



Next inspection date:___

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	Signature of Inspector	Date
"} certify that all re	commended maintenance is complete and no additiona	al action is necessary at this time."
If maintenance is re Upon maintenance	equired, provide a time frame for maintenance comple completion, re-inspect and certify the following:	tion: by next inspection
	Signature of Inspector	Date
"I certify that the in	nspection is complete and that no action is necessary at	this time."
If no maintenance	is required, certify the following:	
Certification:		
Notes: Ref	place futur(s)	

Version 2014



StormFilter BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 04 / 17 / 14				Inspector Name: Ameria wahunt				
gras	sS			Inspec	tion Dat	e:_ 04/17/14		
BMP ID #: 2-3				Type o Maint	contech stormaiter			
	_		Conditions When Maintenance is	requ	ired?			
Component:	Yes	No	Needed Needed	Yes	No	Comments:		
I. Below Ground Vaul	lt							
Sediment accumulation top of cartridge		/	Sediment depth exceeds 0,25 inches		~			
Sediment accumulation in vault	V		Sediment depth exceeds 4 inches in the first chamber	/		>0.5'		
Submerged cartridges		/	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		1			
Trash/debris accumulation		1	Trash and debris accumulated on compost filter bed		/			
Sediment in drain pipes or cleanouts	V		Drain pipes and/or clean outs are full of sediment and/or debris	1				
Damaged pipes		V	Any part of any pipe crushed or damaged due to corrosion and/or settlement		1			
Access cover damaged/not working		/	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		/			
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		/	Cracks wider than ½ inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		V			
			Cracks wider than ½ inch at the joint of any inlet/outlet pipeor evidence of soil particles entering through the cracks		V			
Baffles	N	A	Baffles corroding, cracking, warping, and/or showing signs of failure		1			
Access ladder damaged		1	Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment		/			
II. Below Ground Cart	tridge T	уре						
Filter Media		√	Drawdown of water theough the media takes longer than one hour and/or overflow occurs frequently		1	209		
Short Circuiting		1	Flows do no properly enter filter cartridges		V			



Notes:	Replace Filter(s) Clean outlet p	and pe
	ce is required, certify the following: te inspection is complete and that no action is necessary a	at this time."
If maintenance	Signature of Inspector is required, provide a time frame for maintenance comple	Date etion: by next inspection
1000	nce completion, re-inspect and certify the following: I recommended maintenance is complete and no addition	nal action is necessary at this time."
	Signature of Inspector	Date
Next inspection	date:	

2



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Sorbtive Filter BMPs

Virginia State University Inspection & Maintenance Checklist Date: 03/27/14 Inspector Name: Amelia (schunt Inspection Date: 03127 / 14 Sorblive Filter 20 32 BMP ID #: Type of BMP: Maintenance required? Depth Measurements Yes No Yes No Comments: Component: (If Applicable) The access manhole or access doors Y are functioning properly and are 1 sturcturally sound Sediment and oil are present (provide 1 depths) minimal reaves Floatable pollutant accumulation is N present in the Pre-treatment Bay The Cartrdge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required Proper draindown is occurring in the Cartridge Bay *(If at least 40 hours of dry weather have elapsed, since the most recent runoff event and the Bay contains more than 3 inches of water above the sediment layer, the Sorbtive BRICKs required cleaning or replacement The internal components show no signs M of damage



Notes:	
	15 10
ertification:	
no maintenance is required, certify the following:	
certify that the inspection is complete and that no action is necessary at	this time."
	2/22/11
amelia Wehun	1 317114
Signature of Inspector	Date
maintenance is required, provide a time frame for maintenance complet	ion:
pon maintenance completion, re-inspect and certify the following:	
certify that all recommended maintenance is complete and no additional	Il action is necessary at this time."
-	Patrick Control of the Control of th
Signature of Inspector	Date
lext inspection date:	

2



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Sorbtive Filter BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 03/27/#				Inspect	tor Nam	ie: Amesia wehunt
				Inspect	tion Dat	e:_03/27/14
BMP ID #: 33			Type of BMP: Sorbfive Fit Maintenance required?		sorblive Filter 1C	
Component:	Yes	No	Depth Measurements (If Applicable)	Yes	No	Comments:
The access manhole or access doors are functioning properly and are sturcturally sound	/				0	
Sediment and oil are present (provide depths)		/			/	
Floatable pollutant accumulation is present in the Pre-treatment Bay		1			/	
The Cartrdge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required		1			\ \ !	
Proper draindown is occurring in the Cartridge Bay *(If at least 40 hours of dry weather have elapsed, since the most recent runoff event and the Bay contains more than 3 inches of water above the sediment layer, the Sorbtive BRICKs required cleaning or replacement	✓			W	~	
The internal components show no signs of damage	/			MA	/	



Notes:	
Certification:	
f no maintenance is required, certify the following:	
certify that the inspection is complete and that no action is necessary at thi	is time."
0	2124/11
amolia Wehunt	- 3131114
Signature of Inspector	Date
f maintenance is required, provide a time frame for maintenance completior Jpon maintenance completion, re-inspect and certify the following:	n:
I certify that all recommended maintenance is complete and no additional a	action is necessary at this time."
Signature of Inspector	Date
Next inspection date:	

2



Capital Outlay Facilities PO Box 9044 Virginia State University, VA

Phone: (804)524-3971 Fax: (804)524-5383

Sorbtive Filter BMPs

Virginia State University Inspection & Maintenance Checklist Date: 03127114 Inspector Name:_ Amelia wement Inspection Date: 03127 / 14 BMP ID #: Sorbfive Type of BMP: FILLEY 10C Maintenance required? Depth Measurements Component: Yes No Yes No Comments: (If Applicable) The access manhole or access doors are functioning properly and are sturcturally sound Sediment and oil are present (provide depths) minimal Floatable pollutant accumulation is some 1-caves present in the Pre-treatment Bay The Cartrdge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required Proper draindown is occurring in the Cartridge Bay *(If at least 40 hours of dry weather have elapsed, since the most recent runoff event and the Bay Q. contains more than 3 inches of water above the sediment layer, the Sorbtive BRICKs required cleaning or replacement 3 The internal components show no signs of damage



Date

2

Next inspection date:_

Signature of Inspector



Fax: (804)524-5383

Underground Detention Systems (Water Quantity)

Virginia State University Inspection & Maintenance Checklist

Date: 03127/14		Inspector Name: Amelia wehunt				
		Inspection Date	: 03127/14			
BMP ID #: IS		Type of BMP: Underground storage vault				
Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:			
I. Internal Storage Area						
A. Sediment present?	7	7	24", inlets/whiets clear			
B. Trash/debris present?	4	N	minimal			
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	7	N				
D. Algal growth present?	7	7				
E. Evidence of seepage, leakage, or rust?	7	7				
F. Evidence of pollutants?	2	7				
		Inlet & (Outlet Piping			
A. Inspection manhole funtioning properly?	4	7				
B. Clogging of inflow pipes?	N	N				



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	7	2	
D. Obstruction?	7	2	
E. Adequate riprap (If applicable)?	4	7	some trachldebris present but riprap is adequate
F. Undercutting at the outlet?	1000 H	N ACTON	
G. Outlet channel scour?	CODA N	10 per M	

Notes: Continue to clean trash as part of rouhne maintenance

Certification:		
If no maintenance is re	quired, certify the following:	
"I certify that the inspe	ection is complete and that no action is necessary at this ti	ime."
	Signature of Inspector	Date
	0. 0 - 1 1 1	3/27/14
	amelia Wehent	١١١١
	ired, provide a time frame for maintenance completion:_ mpletion, re-inspect and certify the following:	
Upon maintenance co	ired, provide a time frame for maintenance completion:_	on is necessary at this time."
Upon maintenance co	ired, provide a time frame for maintenance completion:_ mpletion, re-inspect and certify the following:	on is necessary at this time."



Fax: (804)524-5383

Underground Detention Systems (Water Quantity)

Virginia State University Inspection & Maintenance Checklist

Date: 03/27/14		Inspector Name: Amelia wahunt		
		Inspection Date	: 03127/14	
BMP ID #: 24		Type of BMP: Inderground irrigation valut		
Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:	
I. Internal Storage Area	17.15			
A. Sediment present?	2	7		
B. Trash/debris present?	N	N		
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	2	N		
D. Algal growth present?	7	N		
E. Evidence of seepage, leakage, or rust?	7	2		
F. Evidence of pollutants?	2	2		
		Inlet & (Dutlet Piping	
A. Inspection manhole funtioning properly?	7	N		
B. Clogging of inflow pipes?	7	2		



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	NIA		
D. Obstruction?	NIA	MID	
E. Adequate riprap (If applicable)?	Na	NIA	
F. Undercutting at the outlet?	N/A	NIA	
G. Outlet channel scour?	NIA	NIA	

Notes: Floats freely operating Visible inlet/outlet pipes clear

Certification: If no maintenance is req	uired, certify the following:	
"I certify that the inspec	tion is complete and that no action is necessary at th	nis time."
	Signature of Inspector	Date
	amelia Wehunt	3/27/14
If maintenance is require	ed, provide a time frame for maintenance completio	n:
Upon maintenance com	pletion, re-inspect and certify the following:	
120.000	pletion, re-inspect and certify the following: nended maintenance is complete and no additional a	action is necessary at this time."
120.000		action is necessary at this time."
120.000		Date



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Underground Detention Systems (Water Quantity)

Virginia State University Inspection & Maintenance Checklist

Date: (2/7.7/) 4		Inspector Name: Ameria we hunt				
BMP ID #: 25		Inspection Date: <u>03127114</u>				
		Type of BMP: underground Detention				
Inspection Finding:	Y/N	Maintenance Required Comments: Y/N				
I. Internal Storage Area	17.1					
A. Sediment present?	7	u	1/6 "	upper end 5-10" ef 5-01. ment		
B. Trash/debris present?	4	ń	very little			
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	Ч	ч				
D. Algal growth present?	2	N				
E. Evidence of seepage, leakage, or rust?	7	N N				
F. Evidence of pollutants?	7	И				
		Inlet &	Outlet Piping			
A. Inspection manhole funtioning properly?	4	N				
B. Clogging of inflow pipes?	Ч	N				

1



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	1	2	
D. Obstruction?	7	1	
E. Adequate riprap (If applicable)?	NIA	ИІА	
F. Undercutting at the outlet?	NIA	NIA	
G. Outlet channel scour?	ига	NIA	

	NIR	NIP	
lotes:			
Certification:			
f no maintenance is requ			
'I certify that the inspect	ion is complete and t	hat no action is necess	sary at this time."
	-	e of inspector	Date
(Inclia	Wehunt	3/27/14
If maintenance is require Upon maintenance comp			
"I certify that all recomm	ended maintenance	is complete and no ad	ditional action is necessary at this time."
-			-
	Signatur	e of Inspector	Date
Next inspection date:			



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Underground Detention Systems (Water Quantity)

Virginia State University Inspection & Maintenance Checklist

Date: 03/27/14		Inspector Name: Ameria Wehunt			
		Inspection Date: 02 L 27 14			
BMP ID #: 24		Type of BMP: Underground Detention			
Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:		
I. Internal Storage Area	7				
A. Sediment present?	7	N			
B. Trash/debris present?	7	7			
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	7	7			
D. Algal growth present?	7	7			
E. Evidence of seepage, leakage, or rust?	2	7			
F. Evidence of pollutants?	44	7			
		Inlet &	Outlet Piping		
A. Inspection manhole funtioning properly?	Y	7			
B. Clogging of inflow pipes?	7	7			



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	7	7	
D. Obstruction?	и	7	
E. Adequate riprap (If applicable)?	n/a	ИБ	
F. Undercutting at the outlet?	ИР	NIA	
G. Outlet channel scour?	NIA	MIM	

Notes:		
Certification:		
If no maintenance is require	ed, certify the following: I is complete and that no action is necessary at the	uis time "
recently that the inspection		
0	Signature of Inspector molial Wehunt	3/27/14
If maintenance is required,	provide a time frame for maintenance completio tion, re-inspect and certify the following:	n:
"I certify that all recommen	ded maintenance is complete and no additional a	action is necessary at this time."
_		
	Signature of Inspector	Date
Next inspection date:		



Underground Detention Systems (Water Quantity)

Date: 02 /27/14		Inspector Name: Ameria we hunt		
		Inspection Date	: 03/27/14	
BMP ID #: 27		Type of BMP: Underground Detention w/ sand Filters		
Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:	
I. Internal Storage Area				
A. Sediment present?	7	N		
B. Trash/debris present?	7	N		
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	7	72	little separation on concrete patch above pipe	
D. Algal growth present?	٧	N		
E. Evidence of seepage, leakage, or rust?	7	И		
F. Evidence of pollutants?	Ne	7	100000 1000 1000 1000 1000 1000 1000 1	
		Inlet & (Outlet Piping	
A. Inspection manhole funtioning properly?	4	N		
B. Clogging of inflow pipes?	7	M without a without	vitthe water to in on inflow	

were to ... Wotor " Notor



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	ъ.g.	N	
D. Obstruction?	7	, 7	••
E. Adequate riprap (If applicable)?	NIA	NIA	
F. Undercutting at the outlet?	NIA	NIA	
G. Outlet channel scour?	416	NIA	

Notes: Continue to	monitor in fiture	Chamber	

Certification:	and the first of the first	
	uired, certify the following:	
"I certify that the inspec	tion is complete and that no action is necessary at thi	s time."
	Signature of Inspector	Date
Π,	amolea Wohunt	3/27/14
	ed, provide a time frame for maintenance completion pletion, re-inspect and certify the following:	
Upon maintenance com		
Upon maintenance com	pletion, re-inspect and certify the following:	
Upon maintenance com	pletion, re-inspect and certify the following:	
Upon maintenance com	pletion, re-inspect and certify the following: nended maintenance is complete and no additional a	ction is necessary at this time."



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Underground Detention Systems (Water Quantity)

Virginia State University Inspection & Maintenance Checklist

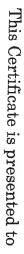
Date: 03/27/14 BMP ID #: 28		Inspector Name: Amaria wehunt Inspection Date: 03/27/14 Type of BMP: Underground Irrigation Vauit						
					Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
					I. Internal Storage Area			
A. Sediment present?	7	н						
B. Trash/debris present?	7	2						
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	7	7						
D. Algal growth present?	7	7						
E. Evidence of seepage, leakage, or rust?	4	2						
F. Evidence of pollutants?	7	7						
		Inlet & 0	Outlet Piping					
A. Inspection manhole funtioning properly?	У	7						
B. Clogging of inflow pipes?	7	2						



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Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	2	7	
D. Obstruction?	7	и	
E. Adequate riprap (If applicable)?	ИГР	710	
F. Undercutting at the outlet?	на	MIA	
G. Outlet channel scour?	710	NIA	
Certification: If no maintenance is require			
"I certify that the inspection			
Q		ture of Inspector	nt 3/27/14
If maintenance is required, Upon maintenance complet	provide a time	frame for mainter	nance completion:
			d no additional action is necessary at this time."
P-	Signa	ture of Inspector	Date
Next inspection date:			

Appendix MCM 6



James River Grounds Management

by the

Department of Conservation and Recreation (DCR)

to recognize their voluntary participation in the Water Quality Agreement Program and their efforts to protect and improve Virginia's ground and surface waters.

By participating in this agreement and reporting fertilizer usage for the 2012 calendar year, they have demonstrated a commitment to protecting Virginia's waters, while providing responsible lawn care service, by following the Virginia Nutrient Management Standards and Criteria

accumulation of excess nutrients in ground water, a common source of drinking water. established by DCR in the Virginia Administrative Code §4 VAC 15-15-10 et. seq. Proper management of fertilizers on turf and landscape areas helps prevent the Also, excess nutrients in surface waters upset the natural balance needed for healthy and productive rivers, lakes, and streams in Virginia

This certificate may be used to promote the company during the 2013 calendar year unless canceled by either party by written notification of the other party





Richard F. Weeks, Jr.

Division Director,

Nonpoint Pollution Prevention

Department of Conservation & Recreation

Virginia Department of Agriculture and Consumer Services P.O. Box 1163, Richmond VA 23218 FERTILIZER APPLICATOR CERTIFICATION not transferable AUTHORIZED REPRESENTATIVE CERTIFICATION: CFA-16213-26716 Larry M. Nichols Petersburg, VA 23806 2916 Myster Macklin Pipp, William John PO BOX 9408 11/25/2017 EXPIRES: Virginia Department of Agriculture and Consumer Services Issued in accordance with application duly executed by the party shown below CERTIFICATION CFA-16213-26716 who has agreed to comply will all applicable laws, rules, and regulations. AUTHORIZED REPRESENTATIVE Larry M. Nichols P.O. Box 1163, Richmond VA 23218 **FERTILIZER APPLICATOR** CERTIFICATION not transferable Petersburg, VA 23806 2916 Myster Macklin Pipp, William John Matthew J. Lohr COMMISSIONER PO BOX 9408 11/26/2013 11/25/2017 EXPIRES ISSUED

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES P O BOX 1163, RICHMOND VA 23218-1163

PESTICIDE APPLICATOR CERTIFICATE

Issued

01/29/2014

06/30/2015 Expires

COMMERCIAL

FOR BL# 7484

Fee Paid

Certificate

127922-C



Issued in accordance with application duly executed by the person shown below who has agreed to comply with all

WILLIAM J PIPP

GCA SERVICES GROUP

208 SAGE LANE

PETERSBURG, VA 23805

Matthew J. Lohr Commissioner



Liza J. Fleeson Authorized Representative