



Midlothian and Chester Campuses

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040110

Permit Year

July 1, 2018 through June 30, 2019

This annual report is submitted in accordance with 9VAC25-890-40 as part of the requirement for permit coverage to discharge stormwater to surface waters of the Commonwealth of Virginia consistent with the VAR04 General Permit effective per letter dated November 1, 2018.

Submitted: September 30, 2019

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ACRONYMS

BMP	Best Management Practices
DEQ	Virginia Department of Environmental Quality
IDDE	Illicit Discharge Detection and Elimination
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
POC	Pollutants of Concern
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
VPDES	Virginia Pollution Discharge Elimination System
WLA	Wasteload Allocation

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

1.1. General Information (Part I.D.2.a)

Permitee Name: John Tyler Community College

System Name: Virginia Community College System

Permit Number: VAR040110

1.2. Reporting Period (Part I.D.2.b)

The reporting period for which the annual report is being submitted:

July 1, 2018 through June 30, 2019

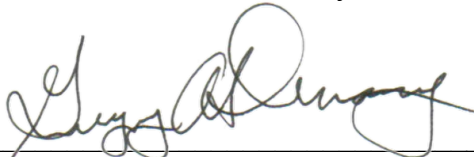
1.3. Signed Certification (Part I.D.2.c)

A signed certification as per Part III K:

"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 ensure 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."

Printed Name: Greg Dunaway

Title: Director of Facilities and Safety

Signature:  Date: 09/30/2019

1.4. Reporting for MCMs #1 - #6 (Part I.D.2.d)

Include information for each annual reporting item specified in Part I.E:

Reporting information for each Minimum Control Measure is provided in Section 2.0.

1.5. Evaluation of the MS4 Program Implementation (Part I.D.2.e)

An evaluation of the MS4 program implementation, including a review of each MCM to determine the MS4 program’s effectiveness and whether changes to the MS4 Program Plan are necessary:

An evaluation for each Minimum Control Measure is provided in Section 2.0. Changes that are necessary to be made to the MS4 Program Plan are summarized in Table 1.

Table 1: Summary of MS4 Program Plan Changes

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2.0 MINIMUM CONTROL MEASURES

2.1. MCM #1: Public Education and Outreach

2.1.1. High Priority Stormwater Issues (Part I.E.1.g(1))

A list of high-priority stormwater issues addressed in the public education and outreach program:

A list of high-priority stormwater issues addressed in public education and outreach program is provided in Table 2.

2.1.2. High Priority Stormwater Issue Communication Strategies (Part I.E. 1.g(2))

A list of strategies used to communicate each high-priority stormwater issue:

A list of strategies used to communicate each high-priority stormwater issue is provided in Table 2. Appendix A includes documentation of the communication efforts described in Table 2.

Table 2: High Priority Stormwater Issues				
#	Stormwater Issue	Strategy	Communication	Completion Status
1	Public education of stormwater runoff	Media materials	Brochure distributed via email	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	TMDLs and Local Impaired Waters	Speaking Engagements	Verbal tour	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Pollution Prevention	Signage	Storm drain markers	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.1.3. MCM #1 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #1 communications accomplished to the intended public audience indicated in the MS4 Program Plan? Yes (Effective) No (Ineffective)

If any communications were determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.2. MCM #2: Public Involvement and Participation

2.2.1. Public Input Summary (Part I.E.2.f(1))

A summary of any public input on the MS4 program received (including stormwater complaints) and responses:

Were any MS4 Program inputs or stormwater complaints received from the public?

Yes (Refer to Table 3) No

If yes, were responses provided? Yes (Refer to Table 3) No

Table 3: Public Input or Complaints and Responses

Input/Complaint :

Response:

2.2.2. MS4 Program Webpage (Part I.E.2.f(2))

A webpage address to the MS4 program and stormwater website:

The webpage address is <https://www.jtcc.edu/about/sustainability-at-jtcc/> for MS4 Program documents and <https://www.jtcc.edu/about/safety-security/hazardous-spill> for reporting IDDEs.

2.2.3. Public Involvement Activities Implemented (Part I.E.2.f(3))

A description of the public involvement activities implemented:

A description of the implemented public involvement activities is provided in Table 4.

2.2.4. Public Involvement Activity Metric and Evaluation (Part I.E.2.f(4))

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality:

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality is provided in Table 4. Appendix B includes documentation of the public involvement activities.

Table 4: Public Involvement Activities Implemented			
Activity Description	Metric	Collaboration	Beneficial
Bryan Park Stream Clean-up Event (3/30/19)	13 students	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Bryan Park Stream Clean up Event (4/13/19)	13 students	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Promoted Clean the Bay Day (5/25/19)	All students, faculty & staff	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
VCCS Administrative Services Conferences MS4 Presentations (10/30/2018 & 06/05/2018)	1	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.2.5. MS4 Collaboration (Part I.E.2.f(5))

The name of other MS4 permittees collaborated with in the public involvement opportunities:

If applicable, the name of other MS4 permittees collaborated with for any of the public involvement opportunities are provided in Table 4.

2.2.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 5.

Table 5: MS4 Program Plan BMP Measurable Goals for MCM #2		
BMP	Measurable Goal	Completeness Status
2.1	Was documentation of the public input or complaints on the MS4 program and MS4 Program Plan maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
2.1	Is the effective MS4 permit and coverage letter on the webpage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.1	Is the most current MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the annual report for each year of the term covered by this permit no later than 30 days after submittal to the department on the webpage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (First permit year.)
2.1	Is there a mechanism for the public to report potential illicit discharges, improper disposal or spills to the MS4, complaints regarding land disturbing activities or other potential stormwater pollution concerns on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is there a method for how the public can provide input of the MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the latest Virginia Community College System Annual Standards and Specifications on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.2.7. MCM #2 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #2 responses Yes or Not Applicable?

Yes (Effective)
 No (Ineffective)
 No (The MS4 permit and coverage letter was placed on the website outside the reporting year. The Program is still effective.)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.3. MCM #3: Illicit Discharge Detection and Elimination

2.3.1. MS4 Map and Information Table (Part I.E.3.e(1))

A confirmation statement that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year:

Were the MS4 storm sewer map and outfall information table updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year? Yes No

2.3.2. Dry Weather Screening (Part I.E.3.e(2))

The total number of outfalls screened during the reporting period as part of the dry weather screening program:

Were outfalls screened during the reporting period? Yes No

The number of outfalls screened during the reporting yard as part of the dry weather screening program is 11. This represents 100% of the total outfalls.

2.3.3. Illicit Discharges (Part I.E.3.e(3))

A list of illicit discharges to the MS4 including spills reaching the MS4:

Were there any illicit discharges to the MS4 including spills reaching the MS4?
 Yes (Refer to Table 6) Not Applicable (No illicit discharges.)

Table 6: Illicit Discharges

Illicit Discharge

Part I.E.3.e(3)(a) Source:

Part I.E.3.e(3)(b) Date Observed & Date Reported:

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe):

Part I.E.3.e(3)(d) Investigation Resolution:

Part I.E.3.e(3)(e) Description of Follow-up Activities:

Part I.E.3.e(3)(f) Date Investigation Closed:

2.3.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 7.

Table 7: MS4 Program Plan BMP Measurable Goals for MCM #3		
BMP	Measurable Goal	Completeness Status
3.1	Was a GIS compatible shapefile submitted to DEQ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.1	Was written notification provided to any downstream adjacent MS4 of any known interconnection established or discovered during the permit reporting year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No
3.2	Did all students, faculty and staff have access to the Standards of Conduct for Employees and the Student Handbook for Students?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.3	Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.3.5. MCM #3 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #3 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.4. MCM #4: Construction Site Stormwater Runoff Control

2.4.1. Implementation of Standards and Specifications (Part I.E.4.a(3))

The MS4 implements a construction site stormwater runoff program in accordance with the most recent DEQ approved Standards and Specifications in compliance with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations.

2.4.1.1. Conforming Land Disturbance Projects (Part I.E.4.d(1)(a))

A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control:

Were all land disturbing projects that occurred during the reporting period conducted in accordance with the current department approved standards and specifications for erosion and sediment control?

Yes No (Refer to Table 8) Not Applicable (No land disturbing projects)

2.4.1.2. Non-Conforming Land Disturbance Projects (Part I.E.4.d(1)(b))

If one or more of the land disturbing projects were not conducted with the department standards and specifications, an explanation as to why the projects did not conform to the approved standards and specifications:

If no is checked above, an explanation as to why a project did not conform to the approved standards and specifications are provided in Table 8.

Table 8: Project(s) Not in Conformance with Approved Standards and Specifications

Project Name:

Explanation:

2.4.2. Site Stormwater Runoff Inspections (Part I.E.4.d(2))

Total number of inspections conducted:

The total number of site stormwater runoff inspections conducted for regulated land disturbance activities in accordance with the most recent DEQ approved Standards and Specifications is 27.

2.4.3. Enforcement Actions (Part I.E.4.d(3))

The total number and type of enforcement actions implemented:

The total number of enforcement actions implemented is 1.

The total number of Notices of Violation (Red flags) issued is 1.

The total number of Stop Work Orders (Black flags) issued is 0.

2.4.4. MCM #4 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Was the response to whether all land disturbing projects that occurred during the reporting period conducted in accordance with the current department approved standards and specifications for erosion and sediment control Yes?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.5. MCM #5: Post-Construction Stormwater Management

2.5.1. Implementation of Standards and Specifications (Part I.E.5.a(3))

The MS4 implements the most recent DEQ approved standards and specifications and a stormwater management facility inspection and maintenance program in accordance with Part I.E.5.b.

2.5.2. Stormwater Management Facility Inspections (Part I.E.5.i(2))

Total number of inspections conducted on stormwater management facilities owned or operated by the permittee:

Were inspections conducted on stormwater management facilities during the reporting year? Yes No

The total number of inspections conducted on stormwater management facilities are 32.

2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.i(3))

A description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection:

Were significant maintenance, repair, or retrofit activities performed on any stormwater management (SWM) facilities during the reporting year?

Yes No Not Applicable (No significant maintenance required)

If yes, a description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the MS4 to ensure it continues to perform as designed is provided in Table 9.

Table 9: Maintenance Activities Performed on Stormwater Management Facilities	
Stormwater Management Facility	Significant Maintenance Activity

2.5.4. Virginia Construction Stormwater General Permit Database (Part I.E.5.i(4))

A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 f or a statement that the Permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater form Construction Activities:

Stormwater management facility information for stormwater facilities installed after July 1, 2014 was submitted through the Virginia Construction Stormwater General Permit database for land disturbing activities requiring a General VPDES Permit for Discharges of Stormwater from Construction Activities?

- Yes No Not Applicable (Not a VSMP Authority)

2.5.5. DEQ BMP Warehouse (Part I.E.5.i(5))

A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part I E 5 g and the date on which the information was submitted:

No later than October 1 of each year, stormwater management facilities and BMPs implemented to meet a TMDL load reduction between July 1 and June 30 of each year were electronically reported using the DEQ BMP Warehouse for any practices not reported in accordance with Part I.E.5.f (requirement 2.5.4) including stormwater management facilities from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required?

- Yes, Date Submitted: No Not Applicable (No SWM facilities constructed or BMPs implemented.)

2.5.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 10.

Table 10: MS4 Program Plan BMP Measurable Goals for MCM #5		
BMP	Measurable Goal	Completeness Status
5.1	Was the post-construction stormwater management inspection and maintenance program implemented in accordance with approved standards and specifications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5.2	Was the stormwater management facility tracking database updated?	<input checked="" type="checkbox"/> Yes (In accordance w/ new MS4 General Permit) <input type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No

2.5.7. MCM #5 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #5 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.6. MCM #6: Pollution Prevention and Good Housekeeping

2.6.1. Operational Procedures (Part I.E.6.q(1))

A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period:

Were any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period?

Yes (Refer to Table 11) No Not Applicable (No modifications required.)

Table 11: Good Housekeeping Operational Procedures Developed or Modified

1. Training was changed from annually to biennially.
2. The training quiz was removed from the program as a tool to measure effectiveness.
3. The requirements for modifying the Program was removed in accordance with the 2019-2023 MS4 General Permit.
4. The language was changed to better explain the difference between a good housekeeping action that prevents an IDDE versus a reportable IDDE, which forms to use, who to report to in each scenario and when.
5. Updated sources that are not considered IDDEs in accordance with new regulatory definitions.
6. Added to and expanded on several operation and maintenance procedures, added a maintenance schedule language and commonly generated pollutants list.
7. Updated several waste management disposal procedures pertinent to new regulatory requirements.

2.6.2. Newly Developed SWPPPs (Part I.E.6.q(2))

A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period:

Were any new SWPPPs developed in accordance Part I E 6 c during the reporting period?

Yes (Refer to Table 12) No Not Applicable (No new high priority facilities)

Table 12: New SWPPPs Developed

SWPPP Name	SWPPP Address

2.6.3. Modified or Delisted SWPPPs (Part I.E.6.q(3))

A summary of any new SWPPPs modified in accordance with Part I E 6 f or the rationale of any high priority facilities delisted in accordance with Part I E 6 h during the reporting period:

Were any new SWPPPs modified after an unauthorized discharge, release or spill reported?
 Yes (Refer to Table 13) No Not Applicable (No modification required.)

Were any high priority facilities delisted in accordance with Part I.E.6.h during the reporting period?
 Yes (Refer to Table 13) No Not Applicable (No high priority facilities delisted)

If yes, rationale is provided for any high priority facilities delisted in accordance with Part I.E.6.h during the reporting period in Table 13.

Table 13: SWPPPs Modified or Delisted	
SWPPPs Modified/Delisted	Rationale for Delisting

2.6.4. Newly Developed Nutrient Management Plans (Part I.E.6.q(4))

A summary of new turf and landscape nutrient management plans developed:

Were any new turf and landscape nutrient management plans developed?
 Yes (Refer to Table 14) No Not Applicable (Does not apply any nutrients.)

2.6.4.1. Nutrient Management Plan Acreage (Part I.E.6.q(4)(a))

If yes is checked above, the location and the total acreage of each land area:

If yes is checked above, the location and total acreage of the land area for any newly developed nutrient management plan is provided in Table 14.

2.6.4.2. Nutrient Management Plan Approval Date (Part I.E.6.q(4)(b))

The date of the approved nutrient management plan:

If yes is checked above, the approval date of any newly developed nutrient management plan is provided in Table 14.

Table 14: New Turf and Landscape Nutrient Management Plans		
Location	Total Acreages	Date Approved
800 Charter Colony Parkway, Midlothian, VA 23114	20.01	12/31/2018
13101 Jefferson Davis Highway, Chester, VA 23831	14.85	12/31/2018

2.6.5. Training Events (Part I.E.6.q(5))

A list of the training events conducted in accordance with Part I.E.6.m, including the following information:

Was training conducted?

Yes (Refer to Table 15) No Not Applicable (Not required this reporting year.)

If yes is checked above, a list of training events conducted in accordance with Part I.E.6.m is provided in Table 15.

2.6.5.1. Training Dates (Part I.E.6.q(5)(a))

The date of the training event:

If yes is checked above, the date of the training event is provided in Table 15.

2.6.5.2. Quantity Trained (Part I.E.6.q(5)(b))

The number of employees who attended the training event:

If yes is checked above, the number of employees who attended the training event is provided in Table 15.

2.6.5.3. Training Objective (Part I.E.6.q(5)(c))

The objective of the training event:

If yes is checked above, the objective of the training event is provided in Table 15.

Table 15: Training Events		
Date	# of Attendees	Training Objective
03/19/19	10	Illicit Discharge Detection and Pollution Prevention Training
04/25/19	43	Illicit Discharge Detection
06/12/19	13	Illicit Discharge Detection and Pollution Prevention Training

2.6.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 16.

Table 16: MS4 Program Plan BMP Measurable Goals for MCM #6		
BMP	Measurable Goal	Completeness Status
6.1	Was good housekeeping and pollution prevention biennial training conducted this reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
6.2	Was the annual comprehensive compliance evaluation conducted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.2	Was the SWPPP reviewed within 30 days after an unauthorized discharge, release or spill reported?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No
6.2	Was the SWPPP updated within 90 days after an unauthorized discharge?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No
6.2	Were the MS4's properties reviewed this reporting year to determine if the properties meet the criteria of a high priority facility?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.3	Was the nutrient management plan implemented through completion of application records?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No nutrients applied) <input type="checkbox"/> No
6.4	Were all signed contracts executed with contract good housekeeping and pollution prevention language?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.5	Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No pesticide contracts.) <input type="checkbox"/> No

6.6	Did training occur and were proof of certifications maintained on file for employees performing pesticide and herbicide applications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input type="checkbox"/> No
-----	---	---

2.6.7. MCM #6 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #6 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

3.0 TMDL SPECIAL CONDITIONS

3.1. Chesapeake Bay TMDL Action Plan

3.1.1. BMPs Implemented and Estimated POC Reductions (Part II.A.13.a)

A list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I E 5 g and the estimated reduction of pollutants of concern achieved by each and reported in pounds per year:

Were any BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I.E.5.g? Yes (Refer to Table 17) No

The estimated reduction of pollutants of concern achieved by each BMP reported in pounds per year is provided in Table 17.

Table 17: 2018-2019 Chesapeake Bay TMDL Action Plan POC Reductions			
BMP #1: Street Sweeping Using the Mass Loading Approach			
Required pounds of material swept	189 lbs.		
Provided pounds of material swept	2,200 lbs.		
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
Required 5% Reduction (lbs.) =	2.74	.60	262.97
Provided Reduction (lbs.) =	3.85	1.54	462.00

3.1.2. Nutrient Credits (Part II.A.13.b)

If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions in Part II A 3, A 4, or A 5, a statement that credits were acquired:

Were credits acquired during the reporting period to meet all or a portion of the required reductions in Part II A 3, A 4, or A 5? Yes Not Applicable (No credits acquired.)

3.1.3. POC Cumulative Reduction Progress (Part II.A.13.c)

The progress, using the final design efficiency of the BMPs, toward meeting the required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids:

The progress, using the final design efficiency of the BMPs, toward meeting the required 40% reductions for total nitrogen, total phosphorus, and total suspended solids is provided in Table 18.

Table 18: 2019 – 2023 Chesapeake Bay TMDL Action Plan Implementation Schedule			
Step	General Description	Measurable Goal	Completion Date
1	5% reduction requirement complete. Evaluate lbs. swept.	Completed tracking documentation?	<input checked="" type="checkbox"/> Yes (July 2019) <input type="checkbox"/> No
2	5% reduction requirement complete. Make adjustments to frequency based on 2019 information obtained.	Completed tracking documentation with increase sweeping frequency?	July 2020
3	5% reduction requirement complete. Determine if 40% can be achieved w/ street sweeping alone. If not, evaluate alternate means to achieve 40% reduction. Secure funding for future implementation of new BMPs. Revise Action Plan accordingly.	Completed tracking documentation. If required, revise Action Plan?	July 2021
4	5% reduction requirement complete. Ensure means and methods are in place to meet 40% reduction including additional BMPs if necessary.	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction?	July 2022
5	Complete 40% reduction requirement with selected means and methods.	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction?	July 2023
6	Report on Chesapeake Bay TMDL 40% reduction achievement.	Recorded results in Annual Report?	October 2023

3.1.4. Next Reporting Period Planned BMPs (Part II.A.13.d)

A list of BMPs that are planned to be implemented during the next reporting period:

BMPs that are planned to be implemented during the next reporting period is provided in Table 19.

Table 19: Chesapeake Bay TMDL Action Plan BMPs Planned for 2019-2020
1. Street Sweeping

3.1.5. Chesapeake Bay TMDL Action Plan Measurable Goals

The Chesapeake Bay TMDL Action Plan measurable goals are provided in Table 20.

Table 20: Chesapeake Bay TMDL Action Plan Measurable Goals		
BMP	Measurable Goal	Completeness Status
1	Were public comments considered during the required 15-day comment period?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
2	Were cost effective BMPs selected to support model quantification to achieve the required pollutant reductions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Was the required pollutant reduction reached for this reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3.1.6. Chesapeake Bay TMDL Action Plan Implementation Evaluation (Part I.D.2.e)

Review the TMDL Special Condition to determine the Chesapeake Bay TMDL Action Plan’s effectiveness and whether or not changes to the Chesapeake Bay TMDL Action Plan are necessary:

Were all Chesapeake Bay TMDL Special Condition responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

3.2. Local TMDL Action Plan

3.2.1. James River Tidal Bacteria TMDL Implementation (Part II.B.9)

A summary of actions conducted to implement each local TMDL action plan:

A summary of actions conducted to implement the James River Tidal Bacteria TMDL is provided in Table 21.

Table 21: James River Tidal E.coli TMDL Action Plan Summary of Actions		
BMP	Summary of Actions	Progress Status
1	Assess target audience’s knowledge through quizzes at the end of training sessions, as described in JTCC’s PEOB	Quizzes not conducted. Plan to remove this BMP in the May 2020 revision. Not an effective metric.
2	Maintain Bacteria TMDL Action Plan on website	Completed
3	Reported/observed potential bacteria illicit discharges resolved	Ongoing. None Observed.
4	Screened outfalls with potential bacteria discharges investigated and resolved	Ongoing. None Observed.
5	Publicly reported potential bacteria illicit discharges resolved	Ongoing. None Reported.
6	Reported potential bacteria illicit discharges from construction activities resolved	Ongoing. None Reported.
7	Ensure SWPPPs provided for applicable construction sites	Completed
8	Verify land disturbance projects are compliant with VSMP Stormwater Management Regulations	Completed
9	Annual inspection of all stormwater management facilities. Maintenance performed on facilities, as deemed necessary from inspection.	Completed
10	Reduction, over time, of items of concern resulting from annual SWPPP inspections.	Yes. Plan to remove this BMP in the May 2020 revision.
11	Increase, over time, in the "knowledge score" resulting from quizzes given during training events.	Quizzes not conducted. Plan to remove this BMP in the May 2020 revision.
12	Elimination of bacteria related illicit discharges from contractor activity	Ongoing. None Reported.
13	Implementation of Action Plan BMPs beyond those described in the Minimum Control Measure BMPs <ul style="list-style-type: none"> • Prohibition of Potential Sources • Increased Frequency of Staff Training • Enhanced Public Education and Outreach Plan 	Ongoing. Removed increased training in the Program Plan and plan to remove in May 2020 revision.

Appendix A: Documentation of Public Education and Outreach Activities

From: [Brown, Tanya](#)
Subject: Storm Water Awareness Information - Protecting Our Watersheds
Date: Friday, May 24, 2019 10:20:50 AM
Attachments: [After The Storm Brochure.pdf](#)

Greetings JTCC Staff & Faculty,

As part of the college's ongoing education and outreach reference safety, please review the information below & attached.

Protecting our watersheds/What is MS4?

Do you know what MS4 stands for? It stands for **M**unicipal **S**eparate **S**torm **S**ewer **S**ystems.

Discharges from MS4s are regulated under the Virginia Storm Water Management Act, the Virginia Stormwater Management Program (VSMP), and the EPA's Clean Water Act. John Tyler Community College's storm water discharges are regulated under this federal and state program. As part of our permit responsibilities, JTCC submits an [MS4 Report](#) to the Virginia Department of Environmental Quality, to show that we are meeting our established BMP's (Best Management Practices).

What is a watershed?

A watershed is an area of land that drains all the streams and rainfall to a common outlet such as the outflow of a reservoir, mouth of a bay, or any point along a stream channel. The word watershed is sometimes used interchangeably with drainage basin or catchment. [We all live in a watershed](#), and our individual actions can directly affect it. Pollutants that dump into our water ways not only contaminate our drinking water, but they also kill wildlife that inhabit the watershed.

What is JTCC's watershed?

All precipitation and water draining from the Midlothian Campus flows into Tomahawk Creek and then into the Swift Creek Reservoir. The Chester Campus drains in two directions. The east side of Chester Campus drains into Redwater Creek, a tributary of Proctors Creek, and ultimately to the James River. The west side of Chester Campus drains to Ashton Creek, a tributary of the Appomattox River. Both Chester and Midlothian watersheds flow into a larger watershed which is the Chesapeake Bay. The Chesapeake Bay Watershed covers 64,000 square miles and drains from six states, including the Commonwealth of Virginia.

What is JTCC doing?

Through [JTCC's MS4 program](#), JTCC aims to be good environmental and community stewards by preventing pollution, providing resources for detecting/eliminating illicit discharges, and promoting awareness to our students, staff, and service region.

How can I help?

- Conserve water every day. Take shorter showers, fix leaks & turn off the water when not in use.

- Don't pour toxic household chemicals down the drain; take them to a hazardous waste center.
- Use hardy plants that require little or no watering, fertilizers or pesticides in your yard.
- Do not over apply fertilizers. Consider using organic or slow release fertilizers instead.
- Recycle yard waste in a compost pile & use a mulching mower.
- Use surfaces like wood, brick or gravel for decks & walkways; allows rain to soak in & not run off.
- Never pour used oil or antifreeze into the storm drain or the street.
- Pick up after your dog, and dispose of the waste in the toilet or the trash.
- Drive less—walk or bike; many pollutants in our waters come from car exhaust and car leaks.
- Report any illicit discharges
 - JTCC Chester Campus – 804-796-4025
 - JTCC Midlothian Campus – 804-897-6678
 - Chesterfield County – 804-717-6161
 - VDOT – 800-663-4188

Additional Resources

<https://jtcc.edu/about/sustainability-at-jtcc/>

<http://www.deq.virginia.gov/Programs/Water/StormwaterManagement.aspx>

<http://water.epa.gov/action/weatherchannel/>

Ms. Tanya Brown

Assistant Director of College Safety & Security

John Tyler Community College

800 Charter Colony Parkway

Midlothian, Virginia, 23114

Midlo Office Phone: (804) 594-1414

Mobile Phone: (804) 638-0577

tbrown01@jtcc.edu



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Job No.:	3044
Job Name:	JTCC BirdHall & Nicholas Center
Location (Address):	13101 Jefferson Davis Hwy Chester VA

In consideration of the privilege of touring the above referenced construction site, we the undersigned do hereby agree to hold harmless the

Owner: VCCS

Architect: Grim + Parker

and Donley's, Inc., and all contractors and subcontractors from any claim of personal injury or property damage that might occur during my/our visit to said construction site. I understand and agree that a construction site can be hazardous and I understand the risks involved in touring the project site. I agree to follow and adhere to any safety precautions, including wearing of personal protective equipment, during my site visit. I further hereby agree that if I cause any damage during my visit to the project site, I am responsible for any cost to repair and/or replace the damaged property.

Please Print

Visitor's Name	Representing	Date & Time In
Daniel Linkins	EMS	2/28/19 10:10
Katie Capraro	EMS	2/28/19 10:10
John DUGAN	EMS	2/28/19 10:10
MARY MOWPETER	BIO	2/28/19 10:10
Ann Sorensen	Natural & Health Sciences	2/28/19 10:10
Tiffany Randall	MICRO/CHEMISTRY	2/28/19 10:10
Jaime Hupp	Nursing	2/28/19 10:10
Romy Coltraglio	Nursing	2/28/19 10:10
Mandy Lutz	Nursing	2/28/19 10:10
Vanessa Tanner	Natural Sciences	2/28/19 10:10
Sara A Diaz	Drillcore	2/28/19 11:00 AM
Dan Swick	EC & M	3/1/19 2:50 pm
Sara A Diaz	Drillcore	3-4-19 - 11:00 AM
Russell Singh	United Rentals	3-8-19 1343
Dan Swick	EC & M	3-8-19
LINDSAY ORIOLES	KRISTIE GEE	3/14/19
Peter Orioles	" "	" "



HOLD HARMLESS AGREEMENT

Job No.:	3044
Job Name:	JTCC Bird Hall + Nicholas Center
Location (Address):	13101 Jeff Davis Hwy Chester VA

In consideration of the privilege of touring the above referenced construction site, we the undersigned do hereby agree to hold harmless the

Owner: VCCS

Architect: Gerrit & Parker

and Donley's, Inc., and all contractors and subcontractors from any claim of personal injury or property damage that might occur during my/our visit to said construction site. I understand and agree that a construction site can be hazardous and I understand the risks involved in touring the project site. I agree to follow and adhere to any safety precautions, including wearing of personal protective equipment, during my site visit. I further hereby agree that if I cause any damage during my visit to the project site, I am responsible for any cost to repair and/or replace the damaged property.

Please Print

Visitor's Name	Representing	Date & Time In
Shannon W. Alley	JTCC Security	03-20-19
Shannon W. Alley	JTCC Security	03-20-19
Steve Duggel	JTCC Security	03-20-19
James Lyons	JTCC Security	03-20-19
MAVIS JOHNSON	JTCC Security	03-20-19
H. Cradd	JTCC Security	3-20-19
Kevin Chambers	JTCC Facilities	3-20-19
Tanya Brown	JTCC	3/20/19
Danielle Mollineau	JTCC Security	3/20/19
Glenn Davis	JTCC security	3-20-19
Kenneth Bean	JTCC Security Services	3-20-19
BRIAN WELTEROTH	FLSA	3-20-19
Josh Mays	Miller	3-20-19
Keith Tench	Miller pipeline	3-26-19

Job No.:	3044
Job Name:	JTCC
Location (Address):	13101 Jefferson Davis Highway.

In consideration of the privilege of touring the above referenced construction site, we the undersigned do hereby agree to hold harmless the

Owner: JTCC / UCCS

Architect: Grimm and Parker

and Donley's, Inc., and all contractors and subcontractors from any claim of personal injury or property damage that might occur during my/our visit to said construction site. I understand and agree that a construction site can be hazardous and I understand the risks involved in touring the project site. I agree to follow and adhere to any safety precautions, including wearing of personal protective equipment, during my site visit. I further hereby agree that if I cause any damage during my visit to the project site, I am responsible for any cost to repair and/or replace the damaged property.

Please Print

Visitor's Name	Representing	Date & Time In
John Summerville	Southeast Reg Med Ctr	5/3/19 0820
Jessica Will	JTCC	5/3/19 08:20
Russell Huron	Atlantic	" "
JF	JTCC	" "
Brenda Miller	JTCC	" "
Katie Stanhagen	JTCC	" "
Rosalyn R Dance	JTCC	5/3/19 "
Rachel Brundo	JTCC	5/3/19
Jammy Caluglio	JTCC	5/3/19
Lauren Jife	Alhambra Engineering	5/3/19
Jessica Mason	St. Dunns	5/3/19
Art H	ACI	"
John Wyan	Windsor Park	5/3/19
Bryan Jackowski	UICOM	5-10-19
Josh Dyk	UICOM	5-10-19
Doug Madison	C+W-TESCO	5-14-19
Mike Barry	C+W-TESCO	5-14-19

Job No.:	3044
Job Name:	JTCC Additions
Location (Address):	13106 Jefferson Davis Hwy

In consideration of the privilege of touring the above referenced construction site, we the undersigned do hereby agree to hold harmless the

Owner: VCCS / JTCC

Architect: Grimm AND Parker

and Donley's, Inc., and all contractors and subcontractors from any claim of personal injury or property damage that might occur during my/our visit to said construction site. I understand and agree that a construction site can be hazardous and I understand the risks involved in touring the project site. I agree to follow and adhere to any safety precautions, including wearing of personal protective equipment, during my site visit. I further hereby agree that if I cause any damage during my visit to the project site, I am responsible for any cost to repair and/or replace the damaged property.

Please Print

Visitor's Name	Representing	Date & Time In
Ashley Pinney	John Tyler	4-17-19, 1:30
Laketa Clarkson	↓	↓
Rebeca Parrott		
Arielle Andrews		
Noelle C. Fuller		
Jan Borkin		
Wanda Alford		
Che Boisseau		
Amanda Carpenters		
Jevonte Blount		
David Strade		
Dom	ABS/ JTCC	5-7-19 10:00
DAVID BARKER	BEARING	5/8
STACEY KITCHEN	BEARING	5/8
Dennis Simms	MYCOM	5/9
Michael Potts	MYCOM	5/9

Job No.: <u>3044</u>
Job Name: <u>JICC Chester</u>
Location (Address):

In consideration of the privilege of touring the above referenced construction site, we the undersigned do hereby agree to hold harmless the

Owner: JICC/UCCS

Architect: _____

and Donley's, Inc., and all contractors and subcontractors from any claim of personal injury or property damage that might occur during my/our visit to said construction site. I understand and agree that a construction site can be hazardous and I understand the risks involved in touring the project site. I agree to follow and adhere to any safety precautions, including wearing of personal protective equipment, during my site visit. I further hereby agree that if I cause any damage during my visit to the project site, I am responsible for any cost to repair and/or replace the damaged property.

Please Print

Visitor's Name	Representing	Date & Time In
<u>M. Elizabeth Creamer</u>	<u>CCWA</u>	<u>5/16/19 11:05</u>
<u>Mark Vann</u>	<u>CCWA</u>	<u>5/16/19 11:05</u>
<u>Chine Sims</u>	<u>CCWA</u>	<u>5/16/19 11:05</u>
<u>Nick Longino</u>	<u>''</u>	<u>''</u>
<u>K. M. Ogden</u>	<u>CCWA</u>	<u>'' 11:06</u>
<u>Natalie Meredith</u>	<u>CCWA</u>	<u>5/16/19</u>
<u>Sonya Short</u>	<u>CCWA</u>	<u>5/16/19 11:07</u>
<u>Elizabeth Fillman</u>	<u>CCWA</u>	<u>5/16/19 11:08</u>
<u>Eva Reedy</u>	<u>CCWA</u>	<u>5/16/19 11:08</u>
<u>Herry Donohue</u>	<u>CCWA</u>	<u>5/16/19 11:08</u>
<u>Jessica Reed</u>	<u>CCWA</u>	<u>5/16/19 11:08</u>
<u>MIKE BRAY</u>	<u>C+W TESCO</u>	<u>5/28</u>
<u>DOUG MADISON</u>	<u>''</u>	<u>5/28</u>
<u>MILSON COX</u>	<u>''</u>	<u>5/28</u>
<u>Dennis Simmons</u>	<u>NYCOM inc</u>	<u>5/28</u>
<u>DOUG MADISON</u>	<u>C+W-TESCO</u>	<u>5/30/19</u>
<u>MIKE BRAY</u>	<u>C+W-TESCO</u>	<u>5/30/19</u>

Job No.:	5044
Job Name:	JTCC Chester Bird = Nicholas
Location (Address):	3101 Jefferson Davis Hwy

In consideration of the privilege of touring the above referenced construction site, we the undersigned do hereby agree to hold harmless the

Owner: JTCC/VCCS

Architect: GMP

and Donley's, Inc., and all contractors and subcontractors from any claim of personal injury or property damage that might occur during my/our visit to said construction site. I understand and agree that a construction site can be hazardous and I understand the risks involved in touring the project site. I agree to follow and adhere to any safety precautions, including wearing of personal protective equipment, during my site visit. I further hereby agree that if I cause any damage during my visit to the project site, I am responsible for any cost to repair and/or replace the damaged property.

Please Print

Visitor's Name	Representing	Date & Time In
Michelle Lagarde	CCWA	5/23/19
Dana Newcomer	CCWA	5/23/19
Wes Smith	CCWA	5/23/19
Joe Moor	/	/
John Milo	CCWA	5/23
Donna Ornduff	CCWA	5/23
Carol Luelsinger	CCWA	5/23
Joshua Robinson	CCWA	5/23
Mary Kay Hudgins	CCWA	5/23
Latoya Haney-Harrington	CCWA	5/23
Brittney Cash	CCWA	5/23/19
Lauren Blackwell	CCWA	5/23/19
Amy Taloma	CCWA	5/23/19
Tiffany Spradley	CCWA	5/23/19
Melaine Pitmon	CCWA	5/23/19
Lacie Harris	CCWA	5/23/19
Megan Vaughters	CCWA	5/23/19



No Dumping!

Report Polluters 717-6161

This Drains To Swift Creek Reservoir



WAPA FOLEY

E.L.D.

Appendix B: Documentation of Public Involvement Activities

From: [Emswiler, Samantha](#)
To: [Brown, Tanya](#)
Subject: Re: Bryan Park Water Clean Up - Ethics Club/students
Date: Wednesday, May 15, 2019 3:39:13 PM
Attachments: [57168415_10215728014567589_72473561620545536_o.jpg](#)
[57341003_10215728012167529_349726722918187008_o.jpg](#)

There were only two clean ups on April 13th and March 30th with 13 students attending. I have attached 2 pictures from the first cleanup.

Sam E.

From: Brown, Tanya
Sent: Monday, May 13, 2019 11:55:24 AM
To: Emswiler, Samantha
Cc: Dunaway, Gregory
Subject: RE: Bryan Park Water Clean Up - Ethics Club/students

Hello Sam,
Hope this message reaches you doing well.
I am following up on the emails below reference the water clean-up projects.
Pls provide me the activity dates, participant count and any other supporting documentation, that would be great!

Take care,

Ms. Tanya Brown
Assistant Director of College Safety & Security
John Tyler Community College
800 Charter Colony Parkway
Midlothian, Virginia, 23114
Midlo Office Phone: (804) 594-1414
Chester Office Phone: (804) 768-6633
Mobile Phone: (804) 638-0577
tbrown01@jtcc.edu



From: Emswiler, Samantha
Sent: Monday, February 25, 2019 11:24 AM
To: Dunaway, Gregory <Gdunaway@jtcc.edu>; Brown, Tanya <Tbrown01@jtcc.edu>
Subject: Re: Bryan Park Water Clean Up - Ethics Club/students

Yes! We are just starting to plan our water clean ups and I will let you know the dates once we





- Variety of office supplies
- And much more!

These items will be available from this Friday 9 am to 1 pm at Midlothian Campus, Administration Building, Board Room (B207).

Please contact Katie Stanhagen at kstanhagen@jtcc.edu or ext. 1574 with questions. Thank you!

Posted by **Stanhagen, Kathryn** on Jun 06, 2019

[Comments](#)

Clean the Bay Day - June 1, 2019

Message from Governor Ralph S. Northam

Our beautiful and historic waterways are among the most precious resources here in Virginia. These waterways work for us all day, every day of the year, providing everything from drinking water to tourism dollars. And on one day each year, thousands of Virginians simultaneously work together to improve the condition of our waterways during the annual Clean the Bay Day, picking up litter and debris at sites all across the Commonwealth.

We hope you will consider joining the effort this year as part of Chesapeake Bay Foundation's 31st Annual Clean the Bay Day, to be held Saturday, June 1, 2019, from 9 a.m.-noon at hundreds of sites throughout Virginia.

Your short three-hour commitment, when combined with thousands of other Virginians, has a massive cumulative positive impact. Last year, approximately 6,000 volunteers removed about 134,370 pounds of debris from over 344 miles of stream and shoreline in just three hours.

To register for this event, please visit cbf.org/clean. Some sites do fill up, so please visit the website to sign up for this free event today!

Pam and I will be volunteering on the James River in Richmond, and hope you will be able to participate at a Clean the Bay Day site on June 1st as well.

Sincerely,

Ralph Northam

P.S. Twenty-four Virginia state parks are participating in this year's Clean the Bay Day. Pre-registered volunteers at a participating state park will receive a free park entry pass for the day at that location.



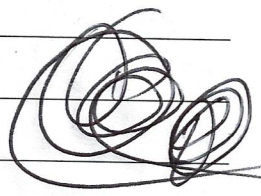
[Back to top](#)

Posted by **Brown, Tanya** on May 25, 2019

[Comments](#)

Storwater Meeting

June 4, 10:15 AM



Sign-in Sheet

<u>Name</u>	<u>Title</u>
BERT THOMPSON	DIR. OF FACILITIES, TCC
Steve Patterson	" " " NOVA
Martha Cardoza	Assoc. Director Planned PM + MCC
DAVID TRIMBLE	ENVIRONMENTAL COMPLIANCE OFFICER
MARY COOKIN	AD, CAPITAL PROJECT
JOHN PIVIK	CAPITAL OUTLAY PROJ. MGR
Sidney Buford	Project Manager
TOM CARTONE	The Law
Greg Dunaway	Dir. of Facilities/Safety, JTCC
Michael Verdi	Reynolds
Jason Brock	Build G Superintendent / PDCCC
PHILLIP BRADSHAW	OPERATIONS MANAGER / CFO, PDCCC
Dan Jewett	Program Mgr VCCS
David Woodus	FMS, VCCS
James Begley	FMS, VCCS
Rick Farthing	VCCS - FMS
Christine Fields	VA Highlands C.C. - VP of Finance
Rebecca Sarkhill	PRCC
Timothy Woodson	PRCC Facilities
GARLAND FENWICK	GCC FACILITIES
MARK KRAMER	TNCC, Director of Facilities
Chris Lewis	SWCC, VP of Finance & Admin
Ron Parker	CVCC Facilities Management
Teri Brothers	OVCC Facilities Mgmt
Lewis Bayart	CVCC VP of Finance



Lisa Ridpath VWCC VP Finance & Admin

Matthew Thompson Sr ISRCR Bldg & Ground Mgr.

William Suones NVCC [Signature]

Charles Tuohimaa DCC VP Finance

Virginia Community College System Stormwater Regulatory Compliance

What's new in stormwater for the VCCS?

June 4, 2019
Richmond, VA

Lee F. Hixon, Ph.D., P.E.
President



H2R Engineering
LeeHixon@H2R-Inc.com

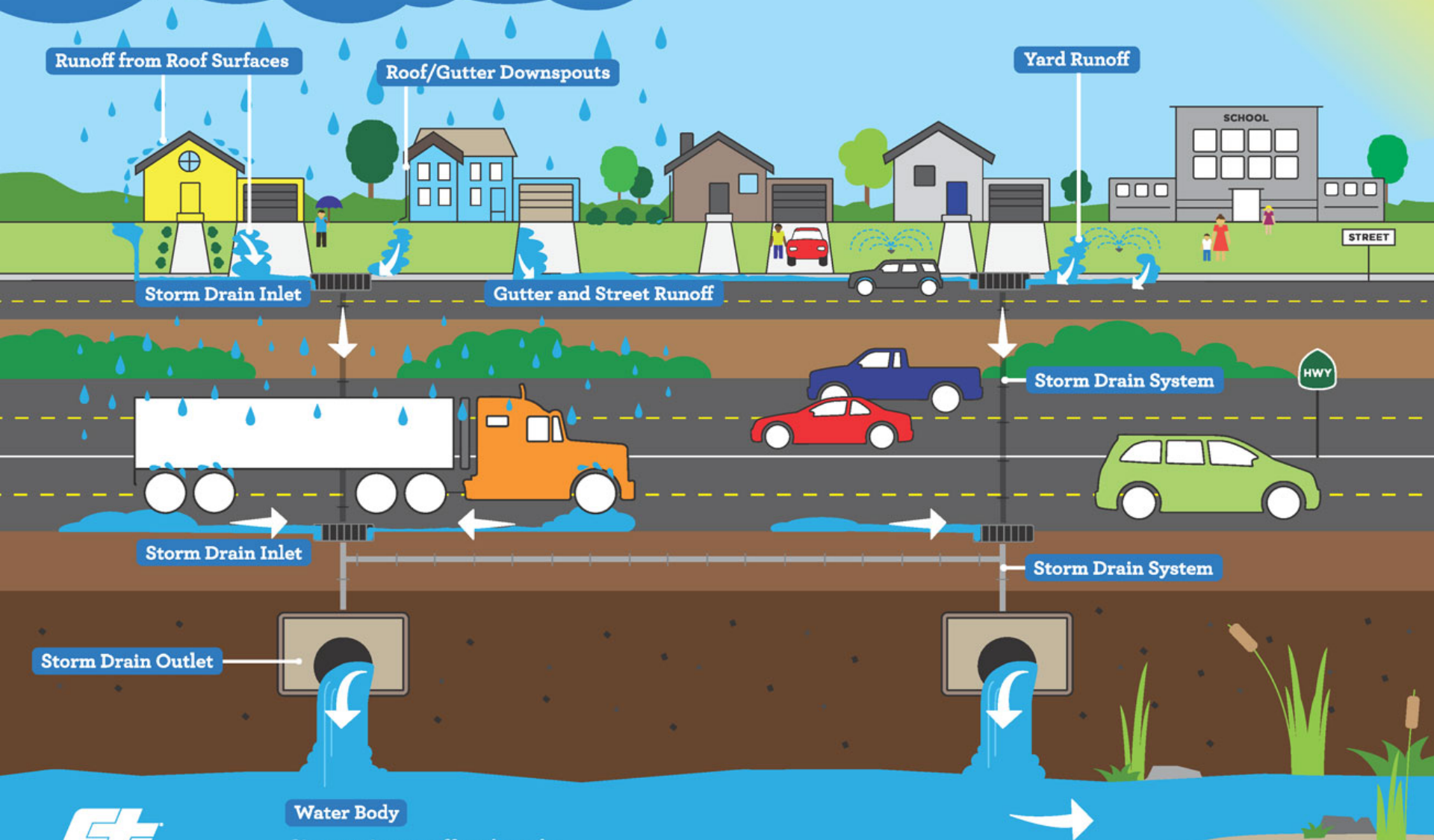


Discussion Items



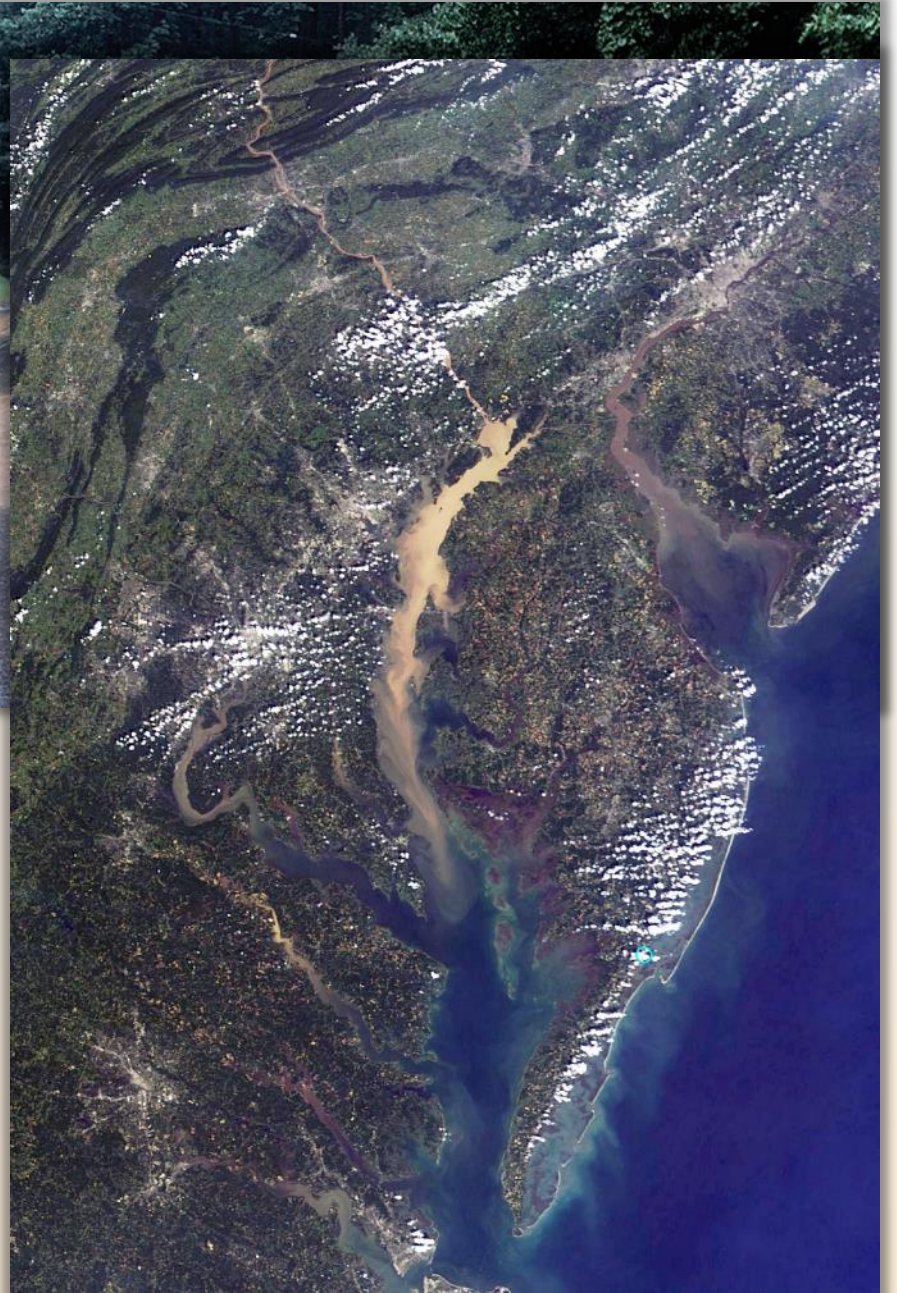
- Impact of Stormwater
- MS4 Programs (What's New?)
 - ✓ Minimum Control Measures
 - ✓ TMDLs
- Forward Progress
 - ✓ BMP Maintenance
 - ✓ Continued GH/PP Upkeep
 - ✓ Master Planning

Stormwater



Stormwater runoff ends up in local creeks, streams, lakes, rivers, and/or the ocean.

https://www.waterboards.ca.gov/water_issues/programs/stormwater/caltrans.html



Chesapeake Bay TMDL

Estimated Cost for Virginia MS4s

\$9.4 – 11.5 billion

- Virginia Senate Finance Committee

MS4 Permits

Phase I

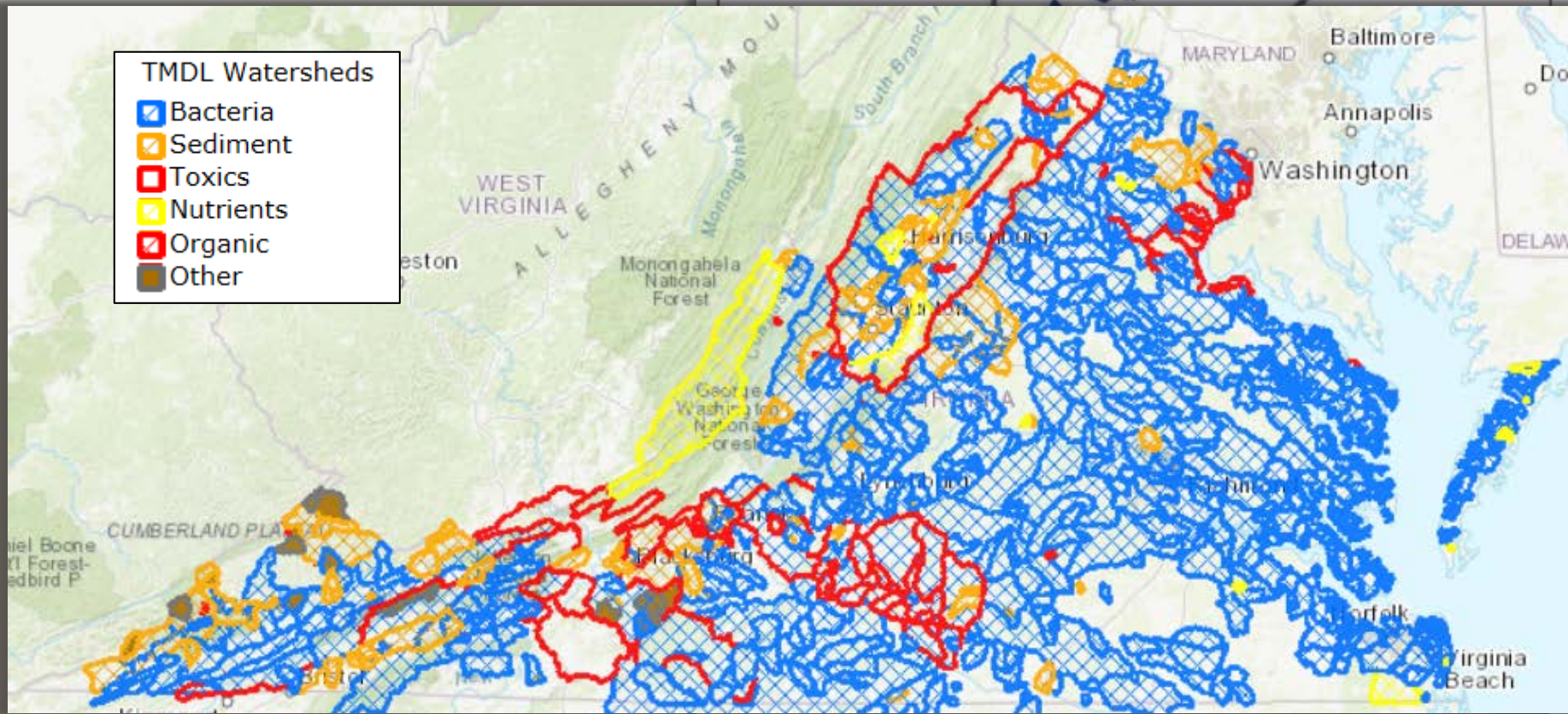
Phase II

➤ 23 Phase I

➤ 400 Phase II

TMDL Watersheds

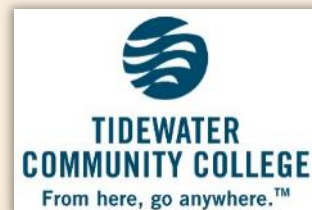
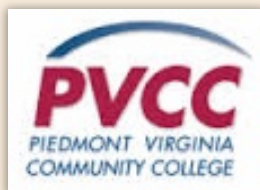
- Bacteria
- Sediment
- Toxics
- Nutrients
- Organic
- Other



Source: Phase 5.3 Chesapeake Bay Watershed Model 2009 Scenario

MS4 Regulated Campuses

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | Progress



MS4 Program Plans

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | Progress



Municipal Separate Storm Sewer System Program Plan Charlottesville Campus

General Permit No. VAR040109
Effective Date: November 1, 2018 through October 31, 2023
Latest revision: March 25, 2019



Municipal Separate Storm Sewer System Program Plan Hampton Campus

General Permit No. VAR040109
Effective Date: November 1, 2018 through October 31, 2023
Latest Revision: March 25, 2019



Municipal Separate Storm Sewer System Program Plan Chesapeake Campus

General Permit No. VAR040109
Effective Date: November 1, 2018 through October 31, 2023
Latest Revision: March 25, 2019



Municipal Separate Storm Sewer System Program Plan Abingdon Campus

General Permit No. VAR040109
Effective Date: November 1, 2018 through October 31, 2023
Latest Revision: March 25, 2019



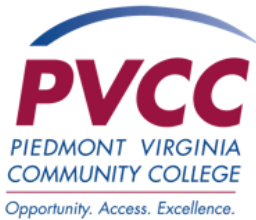
Danville Community College

Municipal Separate Storm Sewer System Program Plan Danville Campus

General Permit No. VAR040109
Effective Date: November 1, 2018 through October 31, 2023
Latest Revision: March 23, 2019

Annual Reporting Forms

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | Progress



Municipal Separate Storm Sewer Annual Report

Charlottesville Campus

Reporting Period: July 1, ____ to June 30, ____

General Permit No. VAR040108

Effective Date: November 1, 2018 through October 31, 2023.

Good Housekeeping/Pollution Prevention Training

Date of latest training event:	Click or tap to enter a date.
Date of previous training:	Click or tap to enter a date.
Has training continued to be provided a minimum of once every 24 months?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Number of employees that attended the previous training event.	Click or tap here to enter text.
Number of employees identified to be required to participate in training (as defined by the general permit and program plan).	Click or tap here to enter text.
Percent of those identified that attended training.	Click or tap here to enter text.
Does the percentage of those identified to be required to attend training attend?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Provide a description of the objective of the training event. Click or tap here to enter text.	
Average quiz score from latest training event.	Click or tap here to enter text.
If less than 80% pass rate, provide a summary of training assessment and modifications for the next training event. Click or tap here to enter text.	

Public Education & Outreach

General | **MCM1** | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | Progress

Table BMP-1A-1. Strategies for Public Education and Outreach per the General Permit.

Strategies¹	Examples (provided as examples and are not meant to be all inclusive or limiting)
Traditional written materials	Informational brochures, newsletters, fact sheets, utility bill inserts, or recreational guides for targeted groups of citizens
Alternative materials	Bumper stickers, refrigerator magnets, t-shirts, or drink koozies
Signage	Temporary or permanent signage in public places or facilities, vehicle signage, bill boards, or storm drain stenciling
Media Materials	Information disseminated through electronic media, radio, televisions, movie theater, or newspaper
Speaking engagements	Presentations to school, church, industry, trade, special interest, or community groups
Curriculum materials	Materials developed for school-aged children, students at local colleges or universities, or extension classes offered to local citizens
Training materials	Materials developed to disseminate during workshops offered to local citizens, trade organization, or industrial officials

¹Two or more of the strategies must be used each year (i.e. all strategies cannot be signage).

What is stormwater?

Stormwater is rainfall or snowmelt that runs off surfaces such as roads, buildings, sidewalks or compacted ground. It can drain directly into streams, rivers and lakes by traveling over these surfaces and through storm drains. These drains, commonly called storm sewers, should not be confused with sanitary sewers that transport wastewater to a treatment plant before discharging to surface waters. Storm water entering storm sewers does not receive any treatment before it flows to surface waters such as lakes and streams.

What is the problem?

As communities grow, they often experience more storm water problems due to their increasing impervious areas. Impervious areas reduce the amount of rainwater that can naturally infiltrate into the soil. This causes an increase in the volume and rate of stormwater. It can lead to more frequent and severe flooding, stream bank erosion, and potential damages to public and private property and water quality.

As stormwater drains to surface waters, pollutants are collected, including trash, oil, fertilizers, pesticides, pet waste (viruses and bacteria) and other chemicals. These contaminants can cause public health risks with negative impacts to drinking water sources, recreational waters and aquatic life.



**TIDEWATER
COMMUNITY COLLEGE**
From here, go anywhere.™

Save our waterways!

For more information visit us online at:
www.tcc.edu/about-tcc/college-leadership/departments/stormwater

To **report** a suspected or potential non-stormwater discharge to the storm drain, visit the website to complete a report form or use the number below:

TCC Pollution Hotline

757-822-1715



**TIDEWATER
COMMUNITY COLLEGE**
From here, go anywhere.™
Stormwater

What are Water Quality Standards?

The State Water Control Law mandates the protection of existing high-quality state waters and provides for the restoration of all other state waters. The State has adopted water quality standards that consist of statements and numeric limits that describe water quality necessary to meet and maintain certain designated uses. These standards serve as a tool for accomplishing the purposes of the State Water Control Law. Generally, the standards are intended to protect state waters for swimming and other water-based recreation, public water supply, wildlife, propagation and growth of aquatic life, and the production of edible and marketable fish and shellfish.

Which local waters are impaired?

Stormwater from the TNCC campuses ultimately drains to the following impaired surface waters:

- **Chesapeake Bay:** Impaired due to excessive **sediment and nutrients**. Both the Hampton and Historic Triangle campuses are within the bay's watershed.
- **Back River** (Hampton campus) and **Powhatan Creek** (Historic Triangle Campus): Impaired due to exceedance of water quality standards for **bacteria** to support recreational use.



Save our waterways!

For more information visit TNCC's stormwater management webpage at: tncc.edu/about/environment/stormwater

To **report** a suspected or potential non-stormwater discharge to the storm drain, visit the website or use the contact information below:

Buildings and Grounds Supervisor

Phone: 757-825-3694

Email: masonj@tncc.edu

Notice:
Local Waters Do Not Meet Water Quality Standards!



DID YOU KNOW?



Dog poop can contaminate our local streams with bacteria if left out in the rain. This bacteria can make people sick.

REGULARLY PICK UP AFTER YOUR PET!



The Peninsula's Community College
Local Water Quality Issues

What is an **illicit discharge**?

Did you know?

Why is **illicit discharge** a concern?

Why are **illicit discharge** a concern?

We can all help prevent illicit discharges!

- ✓ **Learn More**
 - Visit the DCC Stormwater Webpage
- ✓ **Dispose of waste properly**
 - Don't dump to the storm drain
 - Prevent pollutant exposure to rain
- ✓ **Report potential illicit discharge**
 - Call (434) 797-8533 or
 - Report via the webpage



Public Involvement Opportunities

General | MCM1 | **MCM 2** | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | Progress

Table BMP-2C-1. Public involvement opportunities

Opportunity Types ¹	Description of Activity ²
1. Educational event ✓	Participation in VCCS Conference Stormwater Meeting - Roanoke
2. Educational event ✓	Participation in VCCS Conference Stormwater Meeting - Roanoke
3. Educational event	Booth at community fair
4. Pollution prevention	Implement a storm drain marking program.

**Table 2
Public Involvement Opportunities**

Public involvement opportunities	Examples (provided as example and are not meant to be all inclusive or limiting)
Monitoring	Establish or support citizen monitoring group
Restoration	Stream or watershed clean-up day, adopt-a-water way program,
Educational events	Booth at community fair, demonstration of stormwater control projects, presentation of stormwater materials to schools to meet applicable education Standards of Learning or curriculum requirements, watershed walks, participation on environmental advisory committees
Disposal or collection events ✓	Household hazardous chemicals collection, vehicle fluids collection
Pollution prevention ✓	Adopt-a-storm drain program, implement a storm drain marking program, promote use of residential stormwater BMPs, implement pet waste stations in public areas, adopt-a-street program.

Dedicated Webpage

General | MCM1 | **MCM 2** | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | Progress

Thomas Nelson Community College Stormwater (MS4) Annual Webpage Assessment Form

Date completed: _____

Purpose and Instruction: The intent of this form is to facilitate review of the college's stormwater program webpage to ensure each item required for website posting by the 2018 – 2023 MS4 General permit is provided and maintained. The stormwater webpage should be cross-referenced for each item below. If 'no' is selected for any of the items, the item should be provided on the website as soon as possible to ensure permit compliance. This form is intended for internal use only.

Program Documents			
Item No.	Item	Available on Webpage?	Notes
1	Current MS4 General Permit	<input type="checkbox"/> Yes <input type="checkbox"/> No	The permit can be printed as a pdf from here .
2	MS4 Permit Coverage Letter from DEQ	<input type="checkbox"/> Yes <input type="checkbox"/> No	Coverage letter, as provided to the college by DEQ at the beginning of the permit cycle.
3	Current MS4 Program Plan	<input type="checkbox"/> Yes <input type="checkbox"/> No	With any modification, the Program Plan must be provided on the website within 30 days of the modification.
4	2018-2019 Annual Report	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Post on website no later than November 1, 2019.
5	2019-2020 Annual Report	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Post on website no later than November 1, 2020.
6	2020-2021 Annual Report	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Post on website no later than November 1, 2021.
7	2021-2022 Annual Report	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Post on website no later than November 1, 2022.
8	2022-2023 Annual Report	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Post on website no later than November 1, 2023.
9	VCCS Annual Standards and Specifications for ESC and SWM	<input type="checkbox"/> Yes <input type="checkbox"/> No	Annually verify with Shelley Bains (sbains@vccs.edu) the latest DEQ-approved version (date on cover).
10	TNCC Illicit Discharge Detection and Elimination (IDDE) Program Manual	<input type="checkbox"/> Yes <input type="checkbox"/> No	Ensure posting reflects the latest revision.
11	TNCC Good Housekeeping/Pollution Prevention Program Manual	<input type="checkbox"/> Yes <input type="checkbox"/> No	Ensure posting reflects the latest revision.
12	TNCC Post-construction SWM Inspection and Maintenance Program Manual	<input type="checkbox"/> Yes <input type="checkbox"/> No	Ensure posting reflects the latest revision.
13	TNCC Nutrient Management Plans	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Ensure posting is the current version and each campus (expires on 3-year intervals).
14	TNCC Chesapeake Bay TMDL Action Plan	<input type="checkbox"/> Yes <input type="checkbox"/> No	Ensure posting reflects the latest revision.
Reporting/Input Mechanisms			
Item No.	Item	Available on Webpage?	Notes
15	Informational discussion regarding illicit discharges, improper disposal, and spills	<input type="checkbox"/> Yes <input type="checkbox"/> No	Webpage should describe illicit discharge in general, including impacts from improper disposal and spills.
16	Informational discussion regarding pollution from land disturbance activities	<input type="checkbox"/> Yes <input type="checkbox"/> No	Webpage should describe pollution prevention and erosion & sediment control for construction activities.
17	Phone number (hotline) for reporting associated with items 15 and 16	<input type="checkbox"/> Yes <input type="checkbox"/> No	Clearly identify a hotline number for reporting on illicit discharge concerns. (Also see item 19).
18	Overview discussion of the MS4 Program Plan and solicitation for input	<input type="checkbox"/> Yes <input type="checkbox"/> No	Webpage should describe the purpose of the Program Plan (i.e. BMPs to address permit requirements).
19	Online reporting associated with items 15, 16, and 18	<input type="checkbox"/> Yes <input type="checkbox"/> No	Form should allow for: (1) Selection of the type of report or input (illicit discharge, improper disposal, spill, land disturbance concern, program plan input). Form should also request the date the issue was observed, the location where it was observed, and the source of the concern (i.e. spilled paint).

IDDE Program

General | MCM1 | MCM 2 | **MCM 3** | MCM 4 | MCM 5 | MCM 6 | TMDLs | Progress

- New for Outfall Information Table
 - ✓ Latitude and longitude;
 - ✓ Discharge to impaired water per the Virginia 2016 305(b)/303(d) Water Quality Assessment Integrated Report;
 - ✓ Predominant land use for each outfall discharging to an impaired water; and
 - ✓ Any EPA approved TMDLs for which the college is assigned a wasteload allocation (review and update annually by October 1st).
- Prohibition of illicit discharge
 - ✓ Language for inclusion in future Student Handbooks and Standards of Conduct for Employees

ESC/SWM Standards & Specifications

General | MCM1 | MCM 2 | MCM 3 | **MCM 4** | MCM 5 | MCM 6 | TMDLs | Progress

- ESC and SWM for Construction
 - ✓ Provide latest version of webpage
 - ✓ Minor revisions as noted in revision table



Virginia's
Community Colleges

Annual Standards and Specifications
for
Erosion & Sediment Control
and
Stormwater Management

[The VCCS Stormwater Pollution Prevention Plan (SWPPP) Template is incorporated by reference and available as a separate document for projects equal to or greater than an acre of disturbance.]

Virginia Community College System

➔ Effective Date: August 1, 2019

Latest Revision: June 1, 2019 (See page iii – iv for tracked revisions)

This document is submitted in accordance with 9VAC25-870-170 that requires submission to DEQ, on an annual basis, standards and specifications consistent with the Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq., as amended), the General Permit for Discharges of Stormwater from Construction Activities, the Virginia Stormwater Management Program Regulations and the Erosion and Sediment Control Regulations. This document describes how land-disturbance activity shall be conducted on lands owned by the State Board for Community Colleges, Virginia Community College System.

ESC/SWM Standards & Specifications

General | MCM1 | MCM 2 | MCM 3 | **MCM 4** | MCM 5 | MCM 6 | TMDLs | Progress

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2.3		
3.0		
3.1	APPENDICES	
	Appendix A	Statewide Coverage Map of VCCS Properties
	Appendix B	Land Disturbance Application Form (LD-01)
3.2	Appendix C1	VCCS ESC Plan Preparer/Plan Reviewer Checklist (LD-02A)
	Appendix C2	VCCS SWM Plan Preparer/Plan Reviewer Checklist (LD-02A)
	Appendix D1	DEQ Annual Standards and Specification Entity Information Form
3.3	Appendix D2	VCCS AS&S Preconstruction Meeting Form (LD-03)
	Appendix E1	VCCS Construction Site Inspection Form for Land Disturbance < 1-acre (LD-04A)
	Appendix E2	VCCS Construction Site Inspection Form for Land Disturbance ≥ 1-acre (LD-04B)
3.4	Appendix F	VCCS SWM Facility Certification Form (LD-05)
4.0	Appendix G	VCCS Contractor Notification of Completion of Land Disturbance Activities (LD-06)
4.1	Appendix H	DEQ Notice of Termination Form
4.2		
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LD-01 - Land Disturbance Application Form
Project Code: 260-_____



VCCS LAND DISTURBANCE APPLICATION FORM

Instruction: This form shall be completed, typically by the design engineer preparing the plans, and included with all plan submissions for projects involving land disturbance activities on VCCS owned properties and campuses. Refer to Section 2 the VCCS Annual Standards and Specifications for ESC and SWM for assistance in completing the form.

Applicant (Print): _____

Applicant Signature: _____

Information below to be completed by VCCS

VCCS has verified receipt of all of the applicable submittal items identified above on _____, initiating the 45 day VCCS review period. Comments or an approval letter resulting from the review will be provided to the applicant listed above.

Received by: _____

Electronic BMP Reporting

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | **MCM 5** | MCM 6 | TMDLs | Progress

BMPs associated with land disturbance \geq 1-acre



Stormwater Construction
General Permit System
<https://apps.deq.virginia.gov/swcgp>



BMPs associated with land disturbance $<$ 1-acre



Virginia BMP Warehouse
<https://apps.deq.virginia.gov/BMP>



SWPPP Reassessment

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | **MCM 6** | TMDLs | Progress

➤ Stormwater Pollution Prevention Plan (SWPPP)

- SWPPPs require
 - ✓ Minimum annual inspection & maintenance requirements for source controls (with documentation in SWPPP)
- Requirement can be removed if no longer qualifying
 - ✓ Remove from program documents
 - ✓ Removes some permit requirements
 - ✓ Annually reassess



SWPPP Reassessment

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | **MCM 6** | TMDLs | Progress

- Any of the following occur and are expected to have exposure to stormwater
 - ✓ Areas where residuals remain from using, storing or cleaning machinery or equipment;
 - ✓ Materials or residuals on the ground from spills or leaks;
 - ✓ Material handling equipment;
 - ✓ Materials or products that would be expected to be mobilized in stormwater runoff during loading or unloading or transporting activities;
 - ✓ Materials or products stored outdoors (except final products for outside use where exposure to stormwater does not result in the discharge of pollutants);
 - ✓ Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, etc.;
 - ✓ Waste material except waste in covered, non-leaking containers;
 - ✓ Application or disposal of process wastewater; or
 - ✓ Particulate matter or visible deposits of residuals from roof stacks, vents or both not otherwise regulated (i.e., under an air quality control permit).

Local TMDLs

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | **TMDLs** | Progress

➤ Applicability

- Assigned a waste load allocation to the college and approved prior to **July 1, 2013**
 - ✓ Already identified and Action Plans in place
 - ✓ Update Action Plans for consistency with new permit
 - Incorporation of specific strategies (bacteria, PCBs)
 - Update by **May 1, 2020**
- Assigned a waste load allocation to the college and approved between **July 1, 2013 – June 30, 2018**
 - ✓ Determine if WLAs assigned to college
 - Develop action plan, as applicable
 - Develop/Initiate Implementation **May 1, 2020**



salem, va

Search

Virginia DEQ Home > VEGIS Home > Web Map

Map Results

Tools Add Map Layers Create Map Link Print

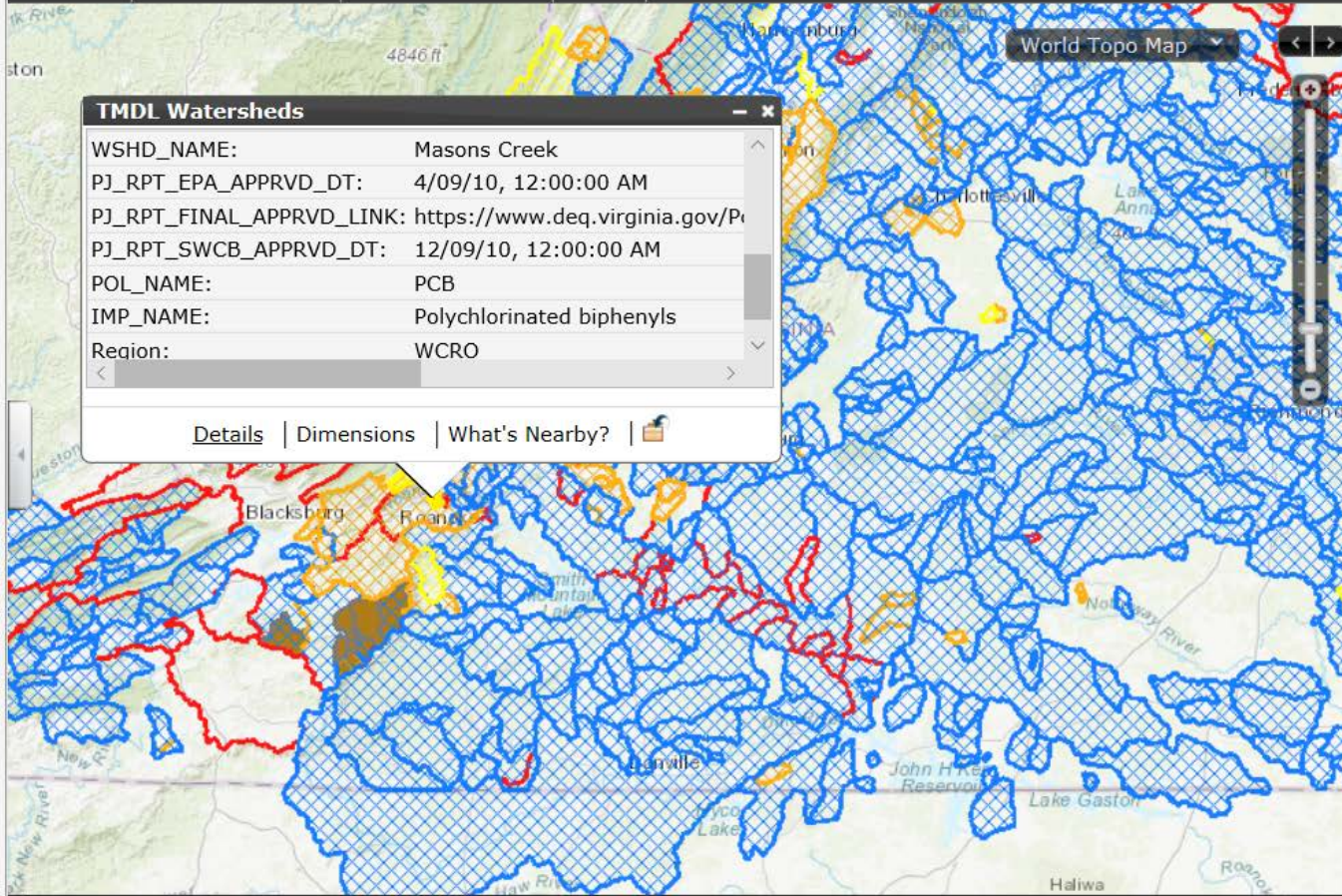
Toggle Layer Options

- TMDL_IP_Watersheds
 - Implementation Watersheds
 - Chesapeake Bay TMDLs
- TMDL Watersheds
 - Bacteria
 - Sediment
 - Toxics
 - Nutrients
 - Organic
 - Other

TMDL Watersheds

WSHD_NAME:	Masons Creek
PJ_RPT_EPA_APPRVD_DT:	4/09/10, 12:00:00 AM
PJ_RPT_FINAL_APPRVD_LINK:	https://www.deq.virginia.gov/P...
PJ_RPT_SWCB_APPRVD_DT:	12/09/10, 12:00:00 AM
POL_NAME:	PCB
IMP_NAME:	Polychlorinated biphenyls
Region:	WCRO

[Details](#) | [Dimensions](#) | [What's Nearby?](#)



25 mi

Deg Min Sec Lon (X): 77° 28' 02.87"W Lat (Y): 38° 21' 19.37"N

Chesapeake Bay TMDL

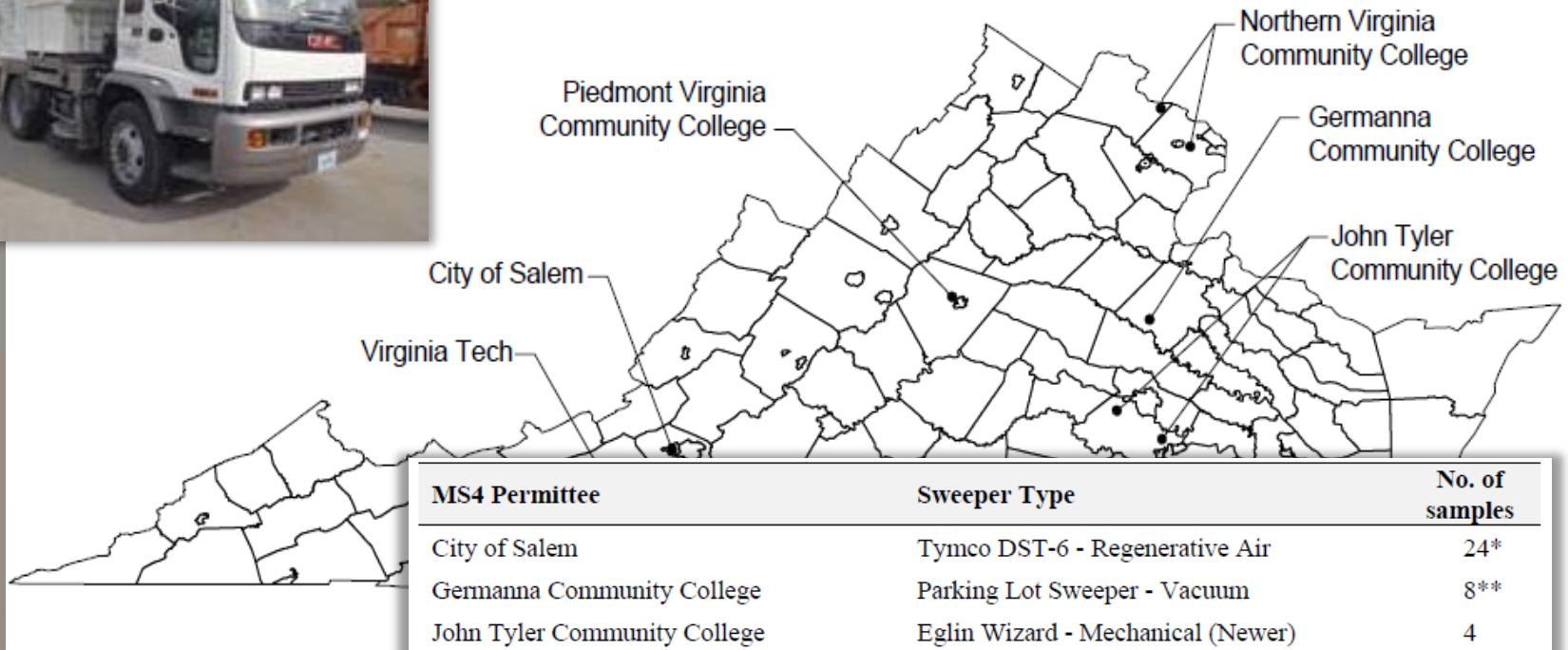
General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | **TMDLs** | Progress

- Phase II Action Plans due to DEQ no later than **Nov. 1, 2019**
 - ✓ Minimum 15-day public comment period

Option	Summary of Computational Methods
Structural BMPs	Specified % reduction in load to BMP per BMP type. For enhancements, difference in between pre- and post-load reduction.
Land Use Change	Apply specified POC reductions per unit area for various conversion scenarios.
Forest Buffers	Credit for the buffer area computed same as for land use change. Specified % reduction in loads draining to the buffer.
Urban Nutrient Management	Based on site risk level, % removal in loadings from the managed area specified for TN and TP.
Urban Stream Restoration	(1) Interim rates (mass reduction/length); or (2) Use of one of four protocols based on type of restoration effort (three require measurements).
Street Sweeping	Assigned removal efficiencies, dependent on frequency of sweeping and sweeper type based on modeling effort.

Street Sweeping Efforts

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | **TMDLs** | Progress



MS4 Permittee	Sweeper Type	No. of samples
City of Salem	Tymco DST-6 - Regenerative Air	24*
Germanna Community College	Parking Lot Sweeper - Vacuum	8**
John Tyler Community College	Eglin Wizard - Mechanical (Newer)	4
Northern Virginia Community College	Tymco Model 210 - Regenerative Air	15
Virginia Tech	Tennant Centurion - Mechanical (Older)	6

* 7 samples not tested for PSD and moisture content due to appearance and odor of sewage

** 2 samples not tested for PSD and moisture content due to appearance and odor of sewage

Street Sweeping Efforts

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | **TMDLs** | Progress

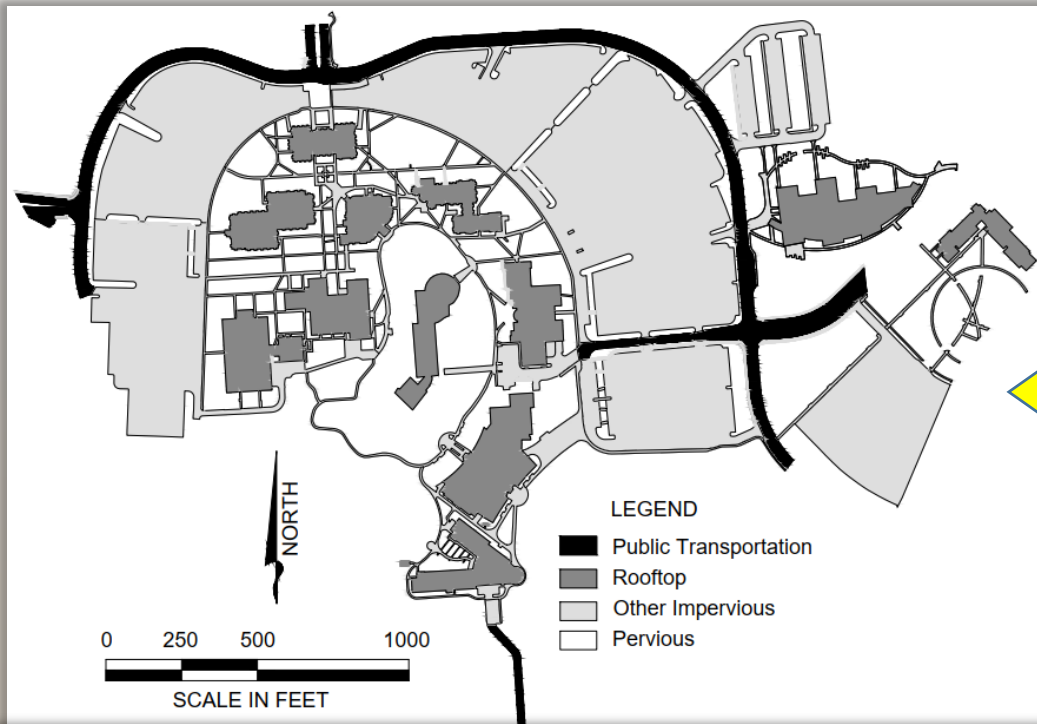
➤ Summary of results thus far

Surface Type	Days Since Runoff	Nutrient (mg/kg)		PSD Range in μm (%)				
		TN	TP	< 250	250-420	420-841	841-2,000	> 2,000
Streets	≤ 2	203	15	13.0	6.6	9.6	24.5	43.8
	> 2	408	51	22.4	10.8	17.8	26.1	14.5
	% Increase	+101	+240	+72	+64	+85	+7	-67
Parking Lots	≤ 2	110	10	12.3	12.3	16.0	25.9	29.7
	> 2	277	54	27.9	16.6	22.3	20.0	10.2
	% Increase	+152	+440	+127	+35	+39	-23	-66

Susceptible to runoff & associated with suspended sediment in receiving waters

Chesapeake Bay TMDL

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | **TMDLs** | Progress



~ 4 sweeping instances annually to achieve reductions for this cycle (dependent on material collected per instances)

Surface Type	Days Since Runoff	TP (< 250 μm)			TN (< 841 μm)			TSS (< 841 μm)
		(mg/kg)	(%)	(lbs/ton)	(mg/kg)	(%)	(lbs/ton)	(lbs/ton)
Streets	≤ 2	586.2	13.0	0.149	662.6	29.2	0.335	571
	> 2		22.4	0.257		51.0	0.585	998
Parking Lots	≤ 2	586.2	12.3	0.141	477.0	40.6	0.466	794
	> 2		27.9	0.320		66.8	0.766	1,307

BMP Inspection/Maintenance

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | Progress

- DEQ Certification (**required**)
- Common issues
 - Vegetation maintenance
 - Inspection accessibility
 - Match to plans (i.e. bioretention)
 - Trees on embankments
 - Clogging
 - Algae
 - Invasive species
 - Slope stabilization (erosion)
 - Loss of design volume



Good Housekeeping

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | **Progress**

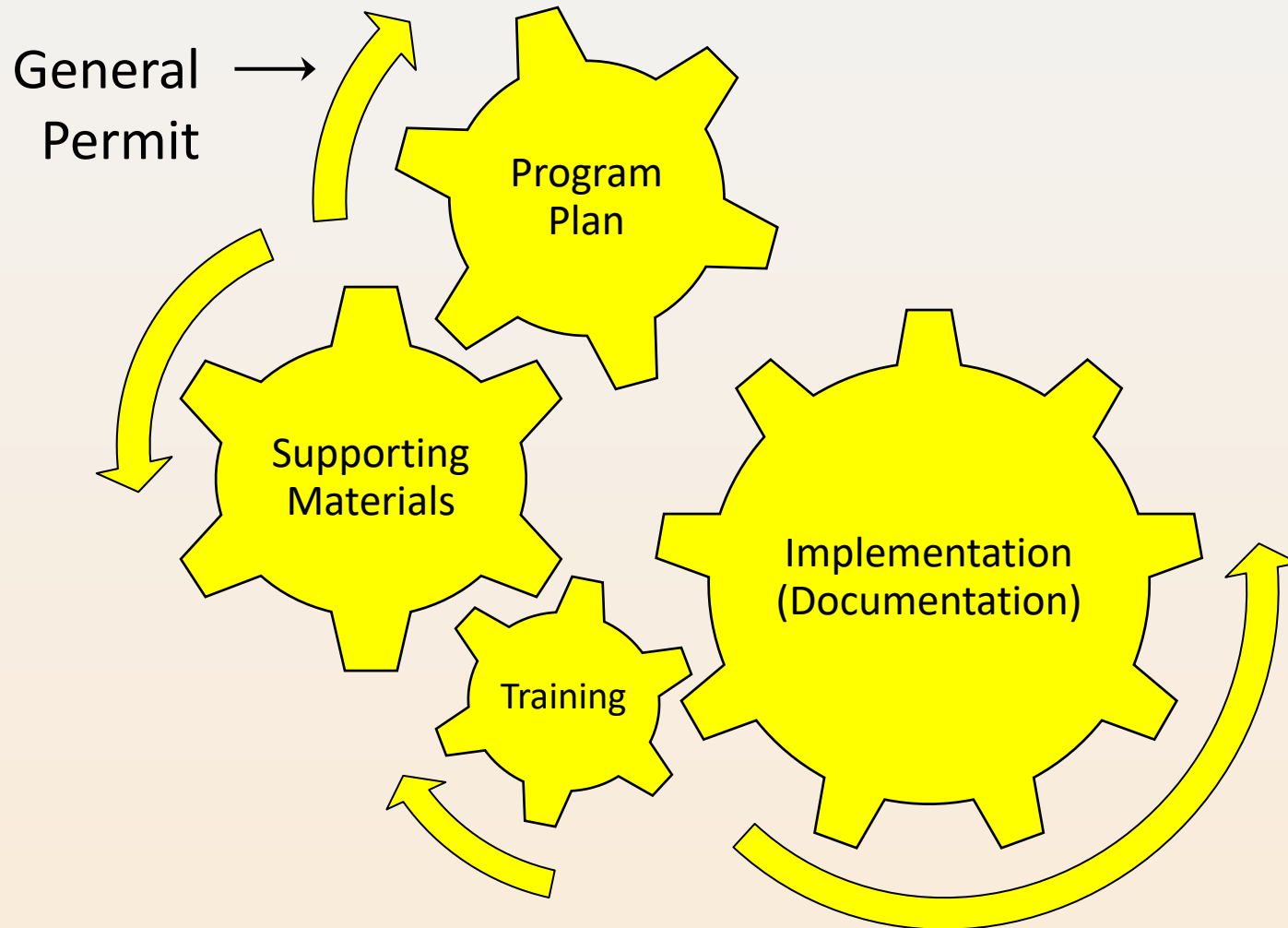
➤ Common issues

- Soluble materials exposed to rainfall
- Leaky equipment and vehicles
- Open dumpsters
- Lack of perimeter controls
- Unlabeled containers



Good Housekeeping

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | **Progress**



Master Planning

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | **Progress**

Piedmont Virginia Community College Main Campus - Charlottesville



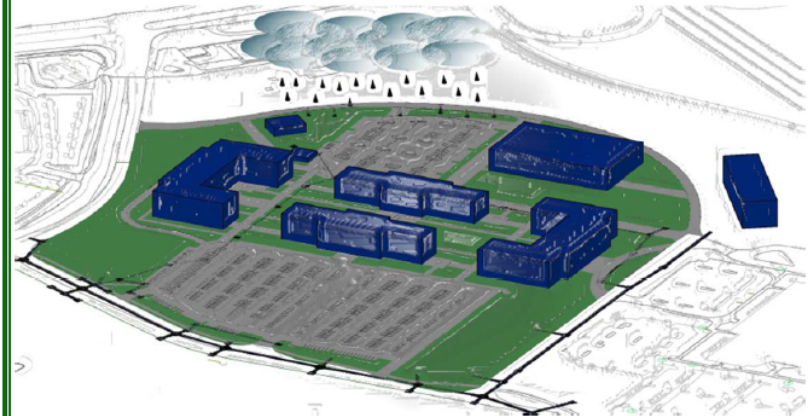
25-year Stormwater Master Plan



Piedmont Virginia Community College
501 College Drive
Charlottesville, VA 22902

May 2016

Thomas Nelson Community College Historic Triangle Campus



2013-2028 Stormwater Master Plan

Thomas Nelson Community College
Historic Triangle Campus
4601 Opportunity Way
Williamsburg, VA 23188

July 2014

Summary

General | MCM1 | MCM 2 | MCM 3 | MCM 4 | MCM 5 | MCM 6 | TMDLs | Progress

- **New MS4 Permit**
 - Updated program documents
 - TMDL implementation
- **Stnds. & Specs**
 - Updated program documents
- **Program Maintenance**
 - Continued compliance



Thank you!

Questions?