



The Peninsula's Community College

# **Municipal Separate Storm Sewer System Annual Report**

**Reporting Period: July 1, 2020 to June 30, 2021**

Date: October 1, 2021

General Permit No. VAR040087

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





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### Annual Report Certification

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

Printed Name: Steven Ray Carpenter

Signature: \_\_\_\_\_



Title: Vice President for Finance and Administration

Date: \_\_\_\_\_

9/22/2021



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## Background and Purpose

Thomas Nelson Community College (TNCC) owns and operates a municipal separate storm sewer system (MS4). The college’s MS4 consists of features such as curb and gutter, drop inlets, ditches, and stormwater management facilities to convey, treat, and ultimately discharge stormwater runoff to surface waters. The discharge of runoff from the MS4 is regulated under the Clean Water Act, as amended and pursuant to the State Water Control Law and Regulations adopted pursuant thereto. TNCC is authorized to discharge stormwater runoff from the Hampton and Historic Triangle campuses’ MS4s under the Virginia Stormwater Management Program Regulations, Virginia Pollutant Discharge Elimination System Regulations (VPDES), and the Virginia State Water Control Law.

TNCC is authorized to discharge stormwater in accordance with the General VPDES Permit for Discharges of Stormwater from Small MS4s (General Permit). As required by the General Permit, TNCC has developed an MS4 Program Plan that describes the best management practices (BMPs) the college will implement to maintain compliance with the permit. The General Permit also requires TNCC to submit an annual report to the Virginia Department of Environmental Quality (DEQ) no later than October 1<sup>st</sup> of each year that reports on program implementation from July 1<sup>st</sup> of the previous year to June 30<sup>th</sup> of the current year. Consistent with the requirements of the General Permit, this report is annually completed as summarized in Table 1.

**Table 1. General information required for annual reporting.**

Required Information	Location in Report
Permittee, system name, and permit number	Cover Page
Reporting period	Cover Page
Signed Certification	Page ‘i’
Annual Reporting item(s) specified for each MCM	Provided for each BMP within the section entitled “Minimum Control Measure Annual Reporting.”
Evaluation of the program implementation, effectiveness, and necessary modifications	Provided for each BMP within the section entitled “Minimum Control Measure Annual Reporting.” Concerns regarding effectiveness are in Table 2 of the following Section.



## Compliance Summary

Reported information is consistent with the specific annual reporting required in the General Permit and the TNCC MS4 Program Plan, including supplemental information described in the Program Plan to measure effectiveness of each BMP. For use in reference to this annual report, the MS4 Program Plan is provided at the TNCC stormwater management [webpage](#). The Program Plan may be updated or revised from time to time as part of an iterative process to reduce pollutant loadings and protect water quality to the maximum extent practicable (MEP). TNCC has evaluated the effectiveness of each program BMP, as described in the Program Plan. Table 2 summarizes the evaluation to determine if any modifications to the Program Plan are necessary for the subsequent reporting year. If deemed ineffective, please see the reporting for the specific BMP for intended modifications.

**Table 2. Evaluation summary for each BMP for the reporting year.**

BMP # <sup>1</sup>	Description Summary <sup>1</sup>	Effective
1A	Public Education & Outreach	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
2A	Maintain dedicated webpage	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
2B	Receive/respond to public reports/input	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
2C	Public Participation Activities	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
3A	MS4 Map and Information Table	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
3B	Prohibition of non-stormwater discharges	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
3C	Perform dry weather outfall screenings	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
4A	Implement VCCS Stnds. & Specs for ESC & SWM	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
4B	Control Non-stormwater discharges (construction)	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
5A	Implement VCCS Stnds. & Specs for ESC & SWM	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
5B	Conduct annual SWM Facility Inspections	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
5C	Update SWM Facility Spreadsheet	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
5D	Report to DEQ Construction Stormwater Database	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
6A	Implement Good Housekeeping Procedures	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
6B	Conduct annual campus-wide SWPPP Evaluation	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
6C	Maintain Current Nutrient Management Plan	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
6D	Ensure contract language for controls	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
6E	Conduct MS4 employee training	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
SC1	Chesapeake Bay TMDL Action Plan	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
-	Local TMDL Action Plans	N/A <sup>2</sup>

<sup>1</sup> Refer to BMP section within this program plan for full description and requirements for each BMP.

<sup>2</sup> TNCC has not been assigned a WLA from a local TMDL.



## Minimum Control Measure Annual Reporting

Reporting provided for each BMP described in the TNCC MS4 Program Plan to address each MCM is provided below. Information provided is only that explicitly required by the General Permit and the TNCC MS4 Program Plan. Please refer to the Program Plan for additional information for each BMP.

### MCM 1: Public Education and Outreach

Annual reporting required for each BMP to address MCM 1, as described in the General Permit and MS4 Program Plan, is provided below.

#### BMP 1A – Public Education & Outreach Plan

Annual reporting associated with this BMP requires:

- ✓ A list of the high-priority stormwater issues addressed during the reporting year (Table 1A-1).
- ✓ A list of the strategies used to communicate each high-priority stormwater issue (Table 1A-1).
- ✓ The public survey results described for use as a measure of effectiveness (Table 1A-2).

**Table 1A-1. Reporting for high priority stormwater issues addressed during the reporting year.**

High Priority Stormwater Issue	Strategy
<i>1. General public education on: (1) stormwater impacts to surface waters and (2) steps to reduce pollution.</i>	<i>Traditional Written Materials (brochure)</i>
<i>2. Illicit discharge prohibition/enforcement on the TNCC campus disciplinary implications, hazards and proper waste disposal.</i>	<i>Media Materials (Closed circuit TV slides)</i>
<i>3. Increase applicable staff's knowledge regarding pollutants of concern for the Chesapeake Bay TMDL.</i>	<i>Traditional Written Materials (brochure)</i>

**Table 1A-2. Public survey results used for measure of effectiveness.**

Results from Public Survey		
<i>Two assessment surveys: (1) Focused on material for WQ issues # 1 &amp; #2 distributed to all of the TNCC public. (2) Focused on WQ issue #3 distributed to applicable staff. Next survey to assess improvement of scores will be in the spring of 2023. Since the 2019 survey, the public score decreased slightly from 79% to 76% and the staff score also decreased slightly from 95% to 94%.</i>		
Date Distributed: <i>(1) 9/16/21 and (2) 9/13/21</i>	Number of Respondents: <i>(1) 78 and (2) 5</i>	Average Score: <i>(1) 76% and (2) 94%</i>

#### Summary of BMP Effectiveness based on Program Plan Measurable Goal

Does the measure of BMP effectiveness require Program Plan modification?  Yes  No



**MCM 2: Public Involvement and Participation**

Annual reporting required for each BMP to address MCM 2, as described in the General Permit and MS4 Program Plan, is provided below.

**BMP 2A – Dedicated MS4 Webpage**

Annual reporting associated with this BMP requires:

- ✓ The current TNCC MS4 Program and stormwater pollution prevention webpage address and a description of updates implemented within the reporting year. A description of updates implemented to the webpage within the reporting year; and
- ✓ Indication of the completion of an annual review of the webpage to ensure the required information to be posted is maintained and up to date.

**Table 2A-1. Reporting for high priority stormwater issues addressed during the reporting year.**

<b>Dedicated Stormwater Webpage Reporting</b>	
Link to current MS4 Program and Stormwater pollution prevention webpage: <a href="https://tncc.edu/about/environment/stormwater">https://tncc.edu/about/environment/stormwater</a>	
An annual review of the website conducted to ensure all information required to be posted on the website was performed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Description of updates implemented during the reporting year: <i>Since the previous reporting period, TNCC has added: (1) the 2019-2020 MS4 Annual Report, as required; (2) the latest version of the VCCS Annual Standards and Specifications for ESC and SWM; and (3) an updated Nutrient Management Plan for each regulated campus.</i>	
<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 2B – Procedures for Receipt/ Response to Public Reports/Input**

Annual reporting associated with this BMP requires:

- ✓ Each potential illicit discharge report and percentage of reports closed;
- ✓ Each instance of public input and percent for which TNCC provided response; and
- ✓ Assessment if all illicit discharges were not closed or all input did not receive response.

<b>Illicit Discharge Reports<sup>1</sup></b>		
Number of instances: <i>1</i>	Number of instances closed: <i>1</i>	Percent of instances closed: <i>100%</i>
<b>Public Input on Program Plan<sup>2</sup></b>		
Number of instances: <i>0</i>	Number of responses: <i>N/A</i>	Percent of instances responded to: <i>N/A</i>

<sup>1</sup> Illicit discharge reports are provided in Appendix A, if > zero instances.

<sup>2</sup> Public input and response documentation is in Appendix B, if > zero instances.

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 2C – Public Involvement/Participation Activities**

Annual reporting associated with this BMP requires:

- ✓ A description of the activities;
- ✓ A report of the metric to measure the benefit to water quality; and
- ✓ An evaluation as to whether or not the activity is beneficial to improving water quality.

<b>Public Involvement/Participation Activities</b>			
<b>Involvement Type<sup>1</sup></b>	<b>Description of activity<sup>2</sup></b>	<b>Report on the Metric to measure benefit to water quality</b>	<b>Beneficial to Improving water quality?</b>
<i>Pollution prevention</i>	<i>Implementation and maintenance of storm drain marker program.</i>	<i>All inlets marked. A minimum of 20% of markers inspected and maintained annually.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Pollution prevention</i>	<i>Installation and maintenance of pet waste stations.</i>	<i>Continued utilization and maintenance of 8 pet waste stations.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Disposal or collection events</i>	<i>Fall 2020 debris collection from edges of wood lines and ditches on campus.</i>	<i>3.5 large trash bags filled.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Disposal or collection events</i>	<i>Spring 2021 debris collection from edges of wood lines and ditches on campus.</i>	<i>3.5 large trash bags filled.</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No

<sup>1</sup> A minimum of two involvement types must be used annually.

<sup>2</sup> TNCC did not collaborate with any other MS4 permittees for any of the listed activities.

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, please described necessary BMP modifications to improve effectiveness:  <i>No changes needed, but Covid prevented typical annual recycling and collection events that will likely return this reporting period. Disposal and collection events were instead held by the college grounds staff.</i>	



**MCM 3: Illicit Discharge Detection and Elimination**

Annual reporting required for each BMP to address MCM 3, as described in the General Permit and MS4 Program Plan, is provided below.

**BMP 3A – Maintain MS4 Map and Information Table**

Annual reporting associated with this BMP requires:

- ✓ 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<sup>th</sup> of the reporting year;

<b>Certification Statement: MS4 Map &amp; Information Table Updates</b>	<b>Confirm?</b>
<i>“In accordance with the General Permit and the TNCC Program Plan, TNCC confirms as part of this annual report that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring during the reporting year.”</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 3B – Prohibition of Unauthorized Non-stormwater Discharges**

Annual reporting associated with this BMP includes reporting requirements for BMP 3C, in addition to the following:

- ✓ The number of illicit discharges purposefully caused by a member of the TNCC public;
- ✓ An assessment, when applicable, of any disciplinary action in context to the protection of water quality.

<b>Illicit Discharge Prohibition Enforcement</b>		
(If applicable, instances are added below of illicit discharges purposefully caused by the TNCC Public)		
No. <input type="text" value="Add Instance"/>	Disciplinary action taken? (Yes / No)	Description of action taken
Total number of instances for current reporting year.		0
Total number of instances for last reporting year.		0
Total number of instances two years previous.		0
Total number of instances three year prior.		0
Does trend indicate the BMP is ineffective?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 3C – Maintain, Implement, Enforce IDDE Written Procedures (Includes Screening)**

Annual reporting associated with this BMP requires:

- ✓ The total number of outfalls screened during the reporting period as part of the dry weather screening program; and
- ✓ A list of illicit discharges to the MS4 including spills reaching the MS4. Each instance of illicit discharge will be documented using the “IDDE Tracking Form” in the *TNCC Staff Handbook of Good Housekeeping and Pollution Prevention* to include the following information:
  - The source of illicit discharge;
  - The dates that the discharge was observed, reported, or both;
  - Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe);
  - How the investigation was resolved;
  - A description of any follow-up activities; and
  - The date the investigation was closed.
- ✓ An annual assessment of the percentage of detected illicit discharges that are eliminated, including any necessary modification(s) needed for the *TNCC Staff Handbook of Good Housekeeping and Pollution Prevention* for cases where a detected illicit discharge was not eliminated. A schedule for completing any modification will also be provided.

<b>Outfall Screening &amp; IDDE Procedure Effectiveness</b>	
Total number of outfalls screened as part of dry weather screening program.	11
Total number of TNCC outfalls.	11
Were 100% of outfalls screened during the reporting year?	Yes

<b>Effectiveness Assessment for Addressing Illicit Discharges</b>	
Were all instances of identified illicit discharge listed in Appendix A closed?	
<p><i>Yes. One apparent illicit discharge was observed at OF-G near the Hampton III building. The illicit discharge was tracked to a leaky nearby dumpster. TNCC contacted the contractor, Waste Management, to address the issue. The drain cap was replaced and signage has been installed requesting the top be closed after use. Effectiveness of the remedy will be assessed with future outfall inspections.</i></p>	



**MCM 4: Construction Site Stormwater Runoff Control**

Annual reporting required for each BMP to address MCM 4, as described in the General Permit and MS4 Program Plan, is provided below.

**BMP 4A – Address Discharge from Regulated Construction Site Stormwater Runoff**

Annual reporting associated with this BMP requires:

- ✓ A confirmation statement, as a result of the annual assessment for effectiveness of the BMP, that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current DEQ-approved standards and specifications for ESC.
  - If one or more of the land disturbing projects were not conducted with the DEQ-approved standards and specifications, an explanation as to why the projects did not conform to the approved standards and specifications.
- ✓ Total number of ESC inspections conducted; and
- ✓ The total number and type of enforcement actions implemented and the type of enforcement actions.

<b>Certification Statement: Adherence to the VCCS Standards &amp; Specifications for ESC</b>	
Confirmation Statement: <i>“In accordance with the General Permit and the TNCC Program Plan, TNCC confirms that land disturbing projects that occurred during the reporting period have been conducted in accordance with the latest DEQ-approved standards and specifications for Erosion and Sediment Control.”</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<b>ESC Inspections &amp; Enforcement Summary</b>	
Total number of ESC inspections conducted: <i>10 (Templin Hall Emergency Demolition project)</i>	
Were any enforcement actions taken during the reporting year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 4B –Controls to Prevent Non-stormwater Discharges during Land Disturbance**

Annual reporting associated with this BMP requires:

- ✓ The total number of illicit discharge originating from land disturbance activity of the total illicit discharges reports listed in Appendix A; and
- ✓ Any potential changes to the subsequent annual standards and specifications to prevent future occurrences.

<b>Illicit Discharge from Land Disturbance Activity</b>	
Were there any instances during the reporting period of illicit discharges originating from land disturbance activity?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**MCM 5: Post-construction SWM for Development**

Annual reporting required for each BMP to address MCM 5, as described in the General Permit and MS4 Program Plan, is provided below. Please refer to the TNCC MS4 Program Plan for specific BMP information.

**BMP 5A – Address Post-construction Stormwater Runoff**

Annual reporting associated with this BMP requires:

- ✓ A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current DEQ-approved standards and specifications for SWM.

<b>Certification Statement: Adherence to the VCCS Standards &amp; Specifications for SWM</b>	
Confirmation Statement: <i>“In accordance with the General Permit and the TNCC Program Plan, TNCC confirms that land disturbing projects that occurred during the reporting period have been conducted in accordance with the latest DEQ-approved standards and specifications for Stormwater Management.”</i>	<input checked="" type="checkbox"/> Yes  <input type="checkbox"/> No

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 5B – Implement Inspection & Maintenance Program for SWM Facilities**

Annual reporting associated with this BMP requires:

- ✓ The total number of inspections (completed forms) conducted on each of TNCC’s SWM facilities;
- ✓ A description of the significant maintenance, repair, or retrofit activities performed on each SWM facility, if any, to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection; and
- ✓ Summary of timelines for addressing any significant maintenance identified during inspections.

<b>SWM Facility Inspections and Maintenance</b>	
Total number of inspections conducted on SWM facilities for the reporting year is: 2	
Was at least one inspection performed on each TNCC SWM facility during the reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Were any significant maintenance, repair, or retrofit activities necessary to ensure the BMP performs as designed as a result of inspection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>Provide the BMP ID and a description of any significant maintenance, including an assessment of the timeliness of the needed actions.</p> <ul style="list-style-type: none"> <li>• <i>No significant maintenance/repair problems identified. Maintenance items listed in the 2019-2020 report have been addressed. TNCC also continued phragmites treatment to address invasive specific during the reporting period.</i></li> </ul>	

**BMP 5C – Maintain SWM Facilities Spreadsheet**

No annual reporting necessary (see reporting for BMP 5D)



**BMP 5D –SWM Facilities Reporting to DEQ**

Annual reporting associated with this BMP requires:

- ✓ A confirmation statement that either: (1) TNCC submitted SWM facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities was required or (2) TNCC did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.
  - If information was not submitted, an explanation as to why with a schedule for submission of the required information.
- ✓ A confirmation statement that TNCC electronically reported, no later than the submission date of this annual report, SWM facilities and BMPs implemented between July 1 and June 30 using the DEQ BMP Warehouse that were installed to control post-development stormwater runoff from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations (9VAC25-830) and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required and the date on which the information was submitted.
  - If information was not submitted, an explanation as to why with a schedule for submission of the required information.

<b>Certification Statement: Report to Virginia Construction Stormwater General Permit Database (Applicable for Reporting Year)</b>	
<p>Confirmation Statement: <i>“TNCC submitted SWM facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities was required in accordance with the VCCS Standards and Specifications for ESC and SWM.”</i></p>	<p><input type="checkbox"/> Yes   <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>

<sup>1</sup> Not applicable since no projects were completed during the reporting year that required coverage; or if an applicable project was completed, a stormwater management facility was not installed as part of the project. See following certification statement.



**BMP 5D –SWM Facilities Reporting to DEQ (continued)**

<b>Certification Statement: Report to Virginia Construction Stormwater General Permit Database (Not Applicable for Reporting Year)</b>	
Confirmation Statement: <i>“TNCC either did not complete any projects during the reporting period requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities; or, if a project was completed, a stormwater management facility was not installed as part of the project.”</i>	Marked box below is confirmation <input checked="" type="checkbox"/>

<b>Certification Statement: Reporting to the DEQ BMP Warehouse</b>	
Confirmation Statement: <i>“TNCC reported, prior to submission of this annual report, stormwater management facilities and BMPs implemented between July 1 and June 30 of the reporting period using the DEQ BMP Warehouse that were installed to control post-development stormwater runoff from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations (9VAC25-830) and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required.”</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

<b>Certification Statement: Report to the DEQ BMP Warehouse (Not Applicable for Reporting Year)</b>	
Confirmation Statement: <i>“TNCC did not install SWM facilities and BMPs to control post-development stormwater runoff from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations (9VAC25-830) and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required.”</i>	Marked box below is confirmation <input checked="" type="checkbox"/>

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**MCM 6: Pollution Prevention & Good Housekeeping for Facilities**

Annual reporting required for each BMP to address MCM 6, as described in the General Permit and MS4 Program Plan, is provided below. Please refer to the TNCC MS4 Program Plan for specific BMP information.

**BMP 6A –Written Procedures for Pollution Prevention/Good Housekeeping**

Annual reporting associated with this BMP requires:

- ✓ A description of any illicit discharges originating from campus operations and maintenance activities, provided in reporting for BMP 3C; and
- ✓ A summary of any modifications to operational procedures in the *TNCC Staff Handbook for Good Housekeeping and Pollution Prevention* to prevent future occurrences of illicit discharge(s), if applicable.

<b>Effectiveness of Program to Prevent Illicit Discharges from Campus Operations</b>	
Were there any illicit discharges from BMP 3C reporting that originated from campus operations of maintenance activities?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Total number of illicit discharges originating from campus operations of maintenance activities:	1
Describe any potential changes to the <i>TNCC Staff Handbook for Good Housekeeping and Pollution Prevention</i> to prevent future occurrences, if applicable. <i>Refer to reporting for BMP 3C regarding the illicit discharge instance. No changes are needed as dumpster operations are addressed in the Handbook. The issue was related to a faulty drain plug.</i>	

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 6B –SWPPPs for High Priority/ High Potential Facilities for Discharging Pollutants**

Annual reporting for this BMP requires a summary of the annual campus assessment to determine if a SWPPP is required based on the criteria described in the General Permit that defines high priority facilities that have high potential of discharging pollutants.

<b>Annual Campus SWPPP Assessment Results</b>	
Was an annual evaluation to determine if a SWPPP is required performed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, is a SWPPP required?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 6C – Maintain/ Implement Nutrient Management Plans and Deicing Policy**

Annual reporting for this BMP will include a summary of any new NMPs developed, including

- ✓ Locations and total acreage for where the NMP applies; and the
- ✓ Date of the latest DCR approval for the NMP.

<b>Nutrient Management</b>	
Did TNCC apply nutrients during the reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p><i>TNCC has, and implements, a Nutrient Management Plan for the Hampton campus for a total of 23.3 acres that was approved by the Department of Conservation and Recreation on August 24, 2021 and is valid through June 30, 2024.</i></p> <p><i>TNCC has, and implements, a Nutrient Management Plan for the Historic Triangle campus for a total of 8.0 acres that was approved by the Department of Conservation and Recreation on August 24, 2021 and is valid through July 30, 2024.</i></p>	

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 6D – Contractor Requirements to Utilize Controls to Minimize Pollutant Discharges**

Annual reporting for this BMP requires:

- ✓ The number of illicit discharges originating from contractor activities.
- ✓ Summary of assessment to modify procurement procedures or the *TNCC Staff Handbook of Good Housekeeping and Pollution Prevention* to prevent future instances.

<b>BMP 6A Annual Reporting Form</b>	
Were there any illicit discharges during the reporting period that originated from contractor activities?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**BMP 6E – Training Plan for Applicable Employees**

Annual reporting associated with this BMP requires:

- ✓ The date of the most recent training event;
- ✓ The date of the prior training event (to ensure within 24 months);
- ✓ The number of employees who attended the most recent training event;
- ✓ The objective of the training event; and
- ✓ The average quiz scores from the training event. If quiz scores average less than 80%, a summary will be report of the assessment of the training event with any necessary modifications to be incorporated into future training to improve teaching of the materials.

<b>Good Housekeeping/Pollution Prevention Training</b>	
Date of latest training event:	<i>July 13, 2020</i>
Date of previous training:	<i>July 19, 2018</i>
Has training continued to be provided a minimum of once every 24 months?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Number of employees that attended the latest training event.	<i>14</i>
Number of employees identified to be required to participate in training (as defined by the general permit and program plan).	<i>14</i>
Percent of those identified that attended training.	<i>100%</i>
Did the percentage of those identified to be required to attend training attend?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
A description of the objective of the latest training event: <i>Familiarize staff with the MS4 program, recognition and reporting of illicit discharges, the Staff Handbook for Good Housekeeping and Pollution Prevention, and priority areas on campus.</i>	
Average quiz score from latest training event.	<i>90% (increase from 75% with last training)</i>

<b>Summary of BMP Effectiveness based on Program Plan Measurable Goal</b>	
Does the measure of BMP effectiveness require Program Plan modification?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



### Special Conditions for Total Maximum Daily Load Waste Load Allocations

Annual reporting required for each BMP to address Special Conditions for TMDLs, as described in the General Permit, is provided below.

#### **BMP SC1 – Chesapeake Bay TMDL Action Plan**

Annual reporting associated with this BMP requires the following:

- ✓ BMPs implemented during the reporting period (street sweeping);
- ✓ Progress towards meeting the required cumulative reductions in the Action Plan;
- ✓ A list of BMPs to be implemented the following reporting year (street sweeping); and
- ✓ Any revisions made to the Action Plan during the reporting year.

<b>Chesapeake Bay TMDL Action Plan Annual Reporting</b>		
<p><i>Street sweeping was implemented in accordance with the Phase II Action Plan. A total of 2.96 tons of sweepings was collected for the reporting period. Equivalent TP, TN, and TSS reductions are based on results of sampling of swept material by MS4s statewide, including TNCC, as presented by Hixon and Dymond (2019) in the manuscript entitled, "Characterization of Street Sweeping Material for Addressing Total Maximum Daily Load Allocations" as published by the ASCE Journal of Sustainable Water in the Built Environment. DOI: 10.1061/JSWBAY.0000882. (Calculations for parking lots, <math>\geq 2</math> days since rain, as recorded by NOAA). Additional sample collection and analysis continues as a measure of effectiveness in conjunction with several MS4s. Continued sampling and analysis has been refined based on recommendations by Hixon and Dymond (2019) for TP and TN concentration just on the fraction of material susceptible to runoff, as defined in the study as particles <math>&lt; 840 \mu\text{m}</math> observed to be transported downstream during rainfall. Since the values from Hixon and Dymond (2019) are estimates based on sampling of all material collected, median values of the refined analysis will be used for computing reductions as the dataset becomes larger with future reporting.</i></p>		
Pollutant	Annual Reductions Required by 2023 (lbs/yr)	Reductions achieved this year (lbs.)
TN	15.0	0.96
TP	4.15	2.22
TSS	1,483	3,784
Are reductions progressing to achieve targets?		No
<p><i>The amount of sweeping was significantly lower this reporting period than previous periods. TNCC will be revisiting the Action Plan during the 2021-2022 reporting year to make modifications as needed to ensure the reduction targets are achieved by 2023.</i></p>		
Were any modifications made to the action plan?		No



2019 Annual Report (VAR040087)  
 2018 - 2019 Reporting Period

Special Conditions for Final Discharge Permit (FDP) and Final Discharge Permit (FDP) are described in the Appendix A - Illicit Discharge Report (From outfall screening) (See reporting for BMP 3C that describes how the illicit discharge has been addressed.)

**Appendix A – Illicit Discharge Report (From outfall screening)**

**(See reporting for BMP 3C that describes how the illicit discharge has been addressed.)**

Location	Discharge Type	Volume	Frequency	Source	Notes
101	Stormwater	100	1	Roof	Illicit discharge
102	Stormwater	200	2	Roof	Illicit discharge
103	Stormwater	300	3	Roof	Illicit discharge
104	Stormwater	400	4	Roof	Illicit discharge
105	Stormwater	500	5	Roof	Illicit discharge
106	Stormwater	600	6	Roof	Illicit discharge
107	Stormwater	700	7	Roof	Illicit discharge
108	Stormwater	800	8	Roof	Illicit discharge
109	Stormwater	900	9	Roof	Illicit discharge
110	Stormwater	1000	10	Roof	Illicit discharge



# OUTFALL RECONNAISSANCE FORM

## Section 1: Background Data

Outfall ID: OF-G (TNCC Hampton Campus)		
Date of Screening: 4-9-21	Time: 1:10 PM	Temperature (°F): 70
Investigators: L. Hixon, P.E.	Form completed by: L. Hixon	
Time since last precipitation event (days/hours): 7 days	Depth of previous rainfall (inches): 0.01	
Photo #s: See Photo #OF-G-1, OF-G-2 and OF-G-3 at the end of this form.		
<p><b>Notes:</b> Outfall is southeast of Hampton III building and discharges to an unnamed tributary to Southwest Branch Back River. Drainage area appears to be predominantly parking lot and rooftop. A dumpster near the immediate upstream drop inlet shows signs of recurring leaking with staining on the pavement between the dumpster and inlet. This indicates a recurring illicit discharge at the outfall. Recommend repair of dumpster to prevent leaking with signage to keep the top closed. Outfall should also be cleaned. If discharge continues, other remedies may need to be considered. Investigation of other inlets discharging to the outfall did not find any other potential sources.</p>		

## Section 2: Outfall Description

LOCATION	MATERIAL	CROSS-SECTION (SHAPE)		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Corrugated Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____ 24"	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open channel	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-Rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: Top Width: Bottom Width:	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

## Section 3: Quantitative Characterization for Flows where Illicit Discharge is Occurring

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	Stop watch
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	_____ ' (Top) _____" (Bottom)	Ft	Tape measure
	Measured length	_____ ' _____"	Ft	Tape measure
	Time of travel		S	Stop watch
Temperature		°F	Thermometer	
pH		pH Units	Test strip	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inspection Form

### Section 4: Physical Indicators for Flowing Outfalls Only

Any Physical Indicators Present in the flow?  Yes  No  No Flow (If No Indicators or No Flow, skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: General Physical Indicators for both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present?  Yes  No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion <input type="checkbox"/> Erosion	
Deposits/Stains	<input checked="" type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input checked="" type="checkbox"/> Other: Orange deposits	In flat area of pipe end section – accumulated orange deposits/stains similar to pavement staining color near dumpster.
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input checked="" type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input checked="" type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	Algae growth immediately downstream at bottom of receiving channel not observed at other nearby outfall (OF-H).
Pipe benthic growth	<input checked="" type="checkbox"/>	<input type="checkbox"/> Brown <input checked="" type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	Appearing at bottom of receiving waters immediately downstream of outfall.

### Section 6: Illicit Discharge Characterization

**An illicit discharge characterization can generally be defined as described below. However, the investigator shall use best judgement.**

- Unlikely:** No indicator in Section 4 **AND** only outfall damage or abnormal vegetation in Section 5.
- Potential:** One indicator in Section 4 with severity index of one **OR**  $\geq$  one indicator in Section 5, unless outfall damage and abnormal vegetation.
- Suspect:**  $\geq$  one indicator(s) checked in Section 4 with a severity index  $\geq$  two **OR**  $>$  2 indicators in Section 5.
- Obvious:**  $\geq$  one indicator(s) checked in Section 4 with a severity index of three **OR**  $\geq$  3 indicators in Section 5.

**Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? See notes on page 1 of 1.**





**Photo #OF-G-1.** In flat area of pipe end section – accumulated orange deposits/stains similar to pavement staining color near dumpster.





**Photo #OF-G-2.** In flat area of pipe end section – accumulated orange deposits/stains similar to pavement staining color near dumpster.





**Photo #OF-G-3.** Staining apparent on pavement all the way to receiving inlet (see also 2019-2020 report for this outfall). Staining indicates leak(s) in the bottom of dumpster. Dumpster also observed to be open, allowing for exposure of contents to stormwater.