



**Northern Virginia
Community College**

September 30, 2023

Ms. Anna M. Tuthill
Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

Re: NOVA's MS4 2022-2023 Annual Report
General Permit No. VAR040095

Dear Ms. Tuthill:

Attached is NOVA's MS4 Annual Report for the period of July 1, 2022 through June 30, 2023.

If you have any questions or need any additional information, please contact me.

Sincerely,

A handwritten signature in black ink that reads "David C. Trimble".

David C. Trimble, P.G.
Manager, Environmental Services
Northern Virginia Community College

Facilities Planning and Support Services
8333 Little River Turnpike, CW Building, 3rd Floor
Annandale, Virginia 22003-3796
703-764-5095 Direct
703-323-3121 Fax
dtrimble@nvcc.edu

OFFICE OF FACILITIES PLANNING & SUPPORT SERVICES

8333 Little River Turnpike, CW Building, Annandale, Virginia 22003
www.nvcc.edu



Alexandria, Annandale,
Loudoun & Woodbridge Campuses

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040095

Permit Year

July 1, 2022 through June 30, 2023

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 29, 2023

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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)

Permittee Name: Northern Virginia Community College

System Name: Virginia Community College System

Permit Number: VAR040095

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

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

July 1, 2022 through June 30, 2023

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: Steven M. Patterson

Title: Chief Facilities Officer

Signature:  Date: 9-30-2023

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

No changes required.

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	Metric	Beneficial
1	Public education on stormwater runoff	Traditional written materials	Stormwater Runoff Impacts brochure sent via email	Approximately 16,800 students, staff, and faculty reached	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	TMDLs and Local Impaired Waters	Speaking Engagement	Environmental presentations to the NOVA Vice President and Project Managers	7 presentations and 52 participants	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Pollution Prevention	Signage	Storm drain markers on all four campuses	Approximately 16,800 students, faculty, and staff reached	<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 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included 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 No

If yes, were responses provided? Yes No Not Applicable

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.nvcc.edu/stormwater/>

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 3.

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 3. Appendix B includes documentation of the public involvement activities.

Table 3: Public Involvement Activities Implemented					
#	Activity Description/Date	Category	Metric	Collaboration	Beneficial
1	MS4 environmental presentation and Q&A to project managers/staff - 11/17/2022	Educational	38 participants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	MS4 environmental presentation and Q&A to new project managers - 8/24/2022, 9/27/2022, 10/7/2022, 1/11/2023, 6/20/2023	Educational	10 participants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	MS4 environmental presentation and Q&A to NOVA Vice President - 4/13/2023	Educational	4 participants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Storm drain marking by students on the Alexandria Campus	Pollution Prevention	8 students and 50 markers installed	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 3.

2.2.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 4.

Table 4: 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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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
2.1	Is there a method for responding to public input?	<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 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included 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 year as part of the dry weather screening program is 59. 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 5) No

Table 5: Illicit Discharges

Illicit Discharge #1

Part I.E.3.e(3)(a) Source: Failure of a waterline caused erosion leading to sediment discharge from CFH foundation drain into wet pond on Annandale Campus.

Part I.E.3.e(3)(b) Date Observed & Date Reported: Observed on 1/17/2023, source found on 1/18/2023, and reported to DEQ on 1/19/2023.

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

Part I.E.3.e(3)(d) Investigation Resolution: Waterline and valves were repaired, thereby stopping the erosion.

Part I.E.3.e(3)(e) Description of Follow-up Activities: Dredging of the wet pond is planned in the future.

Part I.E.3.e(3)(f) Date Investigation Closed: 1/21/2023

2.3.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 6.

Table 6: MS4 Program Plan BMP Measurable Goals for MCM #3		
BMP	Measurable Goal	Completeness Status
3.1	Was a GIS compatible shapefile submitted to DEQ?	Completed
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 Pollution Prevention Policy #303 and Stormwater Pollution Prevention Policy #308?	<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 measurable goals completed in accordance with the MS4 Program Plan?
 Yes No ()

Are the MS4 Program measurable goals effective?
 Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included 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 7) 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 7.

Table 7: Project(s) Not in Conformance with Approved Standards and Specifications

Project Name: Not Applicable

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 are provided in Table 8.

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

The total number and type of enforcement actions implemented:

The total number enforcement actions implemented which include Notices of Violations (Red Flags) and Stop Work Orders (Black Flags) are 0.

The total number of Notices of Violations (Red Flags) and Stop Work Orders (Black Flags) are provided in Table 8.

Table 8: Construction Project(s)				
Project(s)	Total Number of Inspections	Total Number of Notices of Violation Issued (Red Flags)	Total Number of Stop Work Orders Issued (Black Flags)	Total Number of Enforcement Actions Per Project
Reynolds Building Renovation - Loudoun Campus	14	0	0	0
LA Building Façade Loudoun Campus	5	0	0	0
Seefeldt Renovation Swing Space	32	0	0	0
Loudoun Northwest Parking Lot Addition	15	0	0	0
Loudoun Basketball Court	7	0	0	0
Annandale B-15 Parking Lot Repaving	2	0	0	0

2.4.4. MCM #4 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 #4 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included 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 in compliance with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations 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 48.

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
WO-3	Filter fabric around the underdrain and soil media was replaced.

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?

Not Applicable (Not a VMSP 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 Inspection dates updated on 9/25/2023 No Not Applicable (No qualifying structural SWM facilities constructed.)

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 <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 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included 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 (No modifications required.)

Table 11: Good Housekeeping Operational Procedures Developed or Modified

Not Applicable

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
Not Applicable	

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

A summary of any 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 SWPPPs modified after an unauthorized discharge, release or spill reported?

Yes (Refer to Table 12) 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 12) No

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
Not Applicable	Not Applicable

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 (Existing plans in place.)

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

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

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 No () Not Applicable (Not required this reporting year.)

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		
Dates	# of Attendees	Training Objective
3/31/2023 - 5/19/2023	80	Good Housekeeping and Pollution Prevention and IDDE
6/30/2023	1	Pesticide 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required) <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 (Not required) <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 checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No contracts executed) <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 (No training required. Certification proof maintained on file.) <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 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included 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 () Not Applicable (Refer to Table 17.)

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

Table 17: Chesapeake Bay TMDL Action Plan POC Reductions			
BMP #1: Reductions for BMPs Installed after January 1, 2006 and prior to July 1, 2009			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
Bioretention Basin (AL-10), Alexandria Campus	7.49	0.68	492.69
Bioretention Basins (LO-6 & LO-7) & Filterra (LO-5), Loudoun Campus	0.39	0.06	52.90
Retention Basin (LO-1), Loudoun Campus	4.01	1.88	817.53
Provided Reduction (lbs.) =	11.89	2.62	1,363.12
BMP #2: Reductions for BMPs Installed after June 30, 2009			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
AFA Building (AL-5, Al-6, AL-7 & AL-8), Alexandria Campus	11.38	1.42	1,289.61
CH Building Renovation (AN-2, AN-4, AN-5, An-6, An-7 & AN-8), Annandale Campus	1.80	0.76	366.44
LHEC Building (LO-2 & LO-4), Loudoun Campus	1.33	0.59	491.51
Parking Lot Remediation Runoff (AL-10), Alexandria Campus	5.71	0.71	485.10
WRC Building (WO-5), Woodbridge Campus	2.46	2.21	501.34
Learning Village Temporary Construction Credits, Loudoun Campus	20.52	1.61	0

Provided Reduction (lbs.) =	43.20	7.30	3,134.00
BMP #3: Reductions for Redevelopment Projects installed after July 1, 2009			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
AFA Building, Alexandria Campus	7.93	0.99	899.09
Parking Lot Runoff Remediation (AL-10), Alexandria Campus	1.29	0.16	109.32
Northwest Parking Lot Addition, Loudoun Campus	0.3	0.08	33.41
Provided Reduction (lbs.) =	9.52	1.23	1,041.82
BMP #4: Reductions for Street Sweeping			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
Alexandria Campus – SCP-8 (S4) Provided Reduction (lbs.) =	3.91	0.94	1,360
Annandale Campus – SCP-4 Provided Reduction (lbs.) =	1.78	0.51	742
Loudoun Campus – SCP-5 Provided Reduction (lbs.) =	1.44	0.40	572
Woodbridge Campus – SCP-7 (S2) Provided Reduction (lbs.) =	2.16	0.83	1,049
Provided Reduction (lbs.) =	9.29	2.68	3,722.34
BMP #5: Reductions for Storm Drain Cleaning			
5,056 lbs of wet sediment material collected. Provided Reduction (lbs.) =	9.56	2.12	0
BMP #6 Land Use Change Conversion			
Alexandria Campus – Turf to Mixed Open	3.80	0.83	0
Summary of 40% POC Reductions BMPs/Practices			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
BMP #1: BMPs between 1/1/06 - 6/30/09	11.89	2.62	1,363.12
BMP #2: BMPs after July 1, 2009	43.20	7.30	3,134.00
BMP #3: Redevelopment	9.52	1.23	1,041.82
BMP #4: Street Sweeping	9.29	2.68	3,722.34
BMP #5: Storm Drain Cleaning	9.56	2.12	0
BMP #6 Land Use Change Conversion	3.80	0.83	0
Provided Reduction (lbs.) =	87.26	16.78	9,261.28
Required 40% Reduction (lbs.) =	89.33	11.99	10,326.52

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 No

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?	<input checked="" type="checkbox"/> Yes (July 2020) <input type="checkbox"/> No
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?	<input checked="" type="checkbox"/> Yes (July 2021) <input type="checkbox"/> No
4	Revise Action Plan based on the newly issued DEQ Guidance Memo No. GM-20-2003 (Appendix V.G).	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction?	<input checked="" type="checkbox"/> Yes (July 2022) <input type="checkbox"/> No

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?	<input checked="" type="checkbox"/> Yes (July 2023) <input type="checkbox"/> No
6	Report on Chesapeake Bay TMDL 40% reduction achievement.	Recorded results in Annual Report?	<input checked="" type="checkbox"/> Yes (Oct 2023) <input type="checkbox"/> No

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 next reporting year	
1. Street Sweeping	4. Stormwater Facility Conversion
2. Land Use Change Conversion	5. Redevelopment
3. Nutrient Credit Purchase	

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		
#	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"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
3	Was the required pollutant reduction reached for this reporting year?	<input type="checkbox"/> Yes <input checked="" 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 measurable goals completed in accordance with the Chesapeake Bay TMDL Action Plan?

Yes No (Street sweeping reductions were not met this reporting year due to equipment failures, weather delays and staffing issues. However NOVA intends to ensure all street sweeping requirements are met next reporting year. In addition, NOVA had planned several projects to be completed by June 30, 2023 that were delayed. NOVA plans to achieve the 100% cumulative reductions within the first permit year of the next permit cycle.)

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

3.2. Local TMDL Action Plans

3.2.1. Neabsco Creek Watershed 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 Neabsco Creek Watershed Bacteria TMDL is provided in Table 21.

Table 21: Neabsco Creek Watershed Bacteria TMDL Action Plan Summary of Actions		
BMP	Summary of Actions	Completion
1	Identify areas with high bird populations and evaluate deterrents, population controls, habitat modifications and other measures that may reduce bird-associated bacteria loading. Use Geese Management via trained dog harassment on campus 2 – 3 times daily, 7 days a week.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Were all measurable goals completed in accordance with the Neabsco Creek Bacteria TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

3.2.2. Accotink Creek Watershed Sediment 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 Accotink Creek Watershed Sediment TMDL is provided in Table 22.

Table 22: Accotink Creek Watershed Sediment TMDL Action Plan Summary of Actions			
Step	General Description	Measurable Goal	Completion Date
1	Develop Action Plan	Action Plan submitted to DEQ with public comment period.	<input checked="" type="checkbox"/> Yes (5/1/2021) <input type="checkbox"/> No
2	Evaluate the potential for addressing the WLA by modifying the current Street Sweeping Program	<ul style="list-style-type: none"> Determine the potential number of lane miles that can be swept. Incorporate guidance from DEQ GM20-2003 & develop tracking document. Consider Chesapeake Bay TMDL Action Plan WLA in conjunction with this Action Plan. 	<input checked="" type="checkbox"/> Yes (6/30/2022) <input type="checkbox"/> No
3	Evaluate the potential for addressing the WLA by modifying the current Street Sweeping Program	<ul style="list-style-type: none"> Evaluate current equipment & staff availability. Evaluate budget to determine how much street sweeping can be accomplished. 	<input checked="" type="checkbox"/> Yes (6/30/2023) <input type="checkbox"/> No
4	Evaluate the potential for addressing the WLA by modifying the current Street Sweeping Program	<ul style="list-style-type: none"> If required, plan to purchase dedicated sweeper. If required, hire additional staff to adequately address staffing needs to address the WLA. 	June 30, 2024
5	Implement modified Street Sweeping Program and evaluate progress in meeting WLA.	<ul style="list-style-type: none"> Begin staff training & modified street sweeping program. Explore options for additional BMPs as necessary. 	June 30, 2025
6	Implement modified Street Sweeping Program and evaluate	<ul style="list-style-type: none"> Continued staff training & modify street sweeping program as necessary. 	June 30, 2026

	progress in meeting WLA.	<ul style="list-style-type: none"> If required, evaluate options for additional BMPs as necessary. 	
7	Implement modified Street Sweeping Program and evaluate progress in meeting WLA.	<ul style="list-style-type: none"> Continued staff training & modify street sweeping program as necessary. If required, implement options for additional BMPs as necessary and feasible. 	June 30, 2027
8	TMDL End date	WLA met	June 30,2028
9	Ongoing evaluation of sediment reductions	Re-evaluate BMPs used to achieve sediment reductions and explore any necessary modifications to the program (new BMPs, modifying existing BMPs, etc.)	Ongoing

Were all measurable goals completed in accordance with the Accotink Creek Sediment TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

3.2.3. Accotink Creek Watershed Chloride 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 Accotink Creek Watershed Chloride TMDL is provided in Table 23.

Table 23: Accotink Creek Watershed Chloride TMDL Action Plan Summary of Actions		
#	Action Item	Completion Date
1	Complete TMDL Action Plan	<input checked="" type="checkbox"/> Yes (5/1/2021) <input type="checkbox"/> No
2	Establish Salt Management Working Group and Schedule of Meetings	<input checked="" type="checkbox"/> Yes (10/1/2021) <input type="checkbox"/> No
3	Salt Management Working Group Reviews of SaMS and Development Salt Management Program (SMP)	<input checked="" type="checkbox"/> Yes (6/30/2021) <input type="checkbox"/> No
4	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report • Action Plan Updated as Necessary • Snow Operations Staff Training 	<input checked="" type="checkbox"/> Yes (10/1/2022) <input type="checkbox"/> No
5	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report • Action Plan Updated as Necessary • Snow Operations Staff Training 	<input checked="" type="checkbox"/> Yes (10/1/2023) <input type="checkbox"/> No
6	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report • Action Plan Updated as Necessary • Snow Operations Staff Training 	October 1, 2024
7	Develop Snow Operations Standard Operating Procedure Manual	June 30, 2025
8	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report (See 5.1.3) • Action Plan Updated as Necessary • Snow Operations Staff Training 	October 1, 2025
9	Implement SOPs	Winter 2025

Table 24: Accotink Creek Watershed Chloride TMDL Action Plan Program Progress

#	Summary of Progress
1	Each campus conducted Snow Operations training in early December 2022. Attendees included NVCC staff and contractors at each campus. Attendee totals were AL-10, AN-13, LO-6, WO-8 (no rosters were kept). Discussions at the training meeting addressed proper plowing methods, specifying where snow is to be plowed to and/or stockpiled, discussion of the equipment, personnel assigned areas and duties.
2	Conducted discussions with each campus Facility Manager on whether certain parking lots can be shutdown during snow events and not plowed so as to reduce the amount of salt that may be spread. Facilities purchased two new salt spreaders. Calibration methodology is still being evaluating for reducing the amount of salt put down. NVCC’s Snow Book is being reviewed and revisions made as an ongoing task. An SOP is being developed for the Snow Operations Training and will include proper documentation for each meeting. Salt usage was tracked for each campus, though there wasn’t much this past winter.

Were all measurable goals completed in accordance with the Accotink Creek Chloride TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

Appendix A: Documentation of Public Education and Outreach and Public Involvement and Participation Activities

Dear Faculty and Staff:

NOVA's stormwater discharges are regulated by the Virginia Department of Environmental Quality (DEQ) through the General Virginia Pollutant Discharge Elimination System (VPDES) Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4s). Under part of our MS4 General Permit we must develop, implement, and enforce an MS4 Program designed to reduce the discharge of pollutants from our storm sewer system (MS4) to the maximum extent practicable, to protect water quality, ensure compliance with water quality standards and to satisfy the appropriate water quality requirements of the Clean Water Act and its attendant regulations. The MS4 Program includes six minimum control measures (MCMs) which we must implement annually, one of which is a public education and outreach program on stormwater impacts. Please review the below information. If you would like to comment on this email please submit your comments to stormwater@nvcc.edu.



Stormwater Runoff Impacts and the Impact *You Can Make*

Information concerning NOVA's Stormwater Management Program can be found on NOVA's website at: <http://www.nvcc.edu/stormwater/>

What Is Stormwater Runoff?

Stormwater runoff is precipitation such as rain or snow that does not soak into the ground or otherwise become captured in tree canopy or evaporate from the ground when settled in depressions. Stormwater runoff is dramatically increased as a result of human development of land. The increase is caused as a result of hardened (impervious) surfaces such as roadways, parking lots and rooftops. Managed grassy areas are also often hardened during the development phase, reducing the soils ability to infiltrate rainfall. The result is an increased volume of rainfall running off into local creeks and streams.

Did you know?

Stormwater runoff that enters a storm inlet is not directed to a treatment plant like the water flushed down the toilet. Storm sewer systems typically directly discharge to the nearest surface waterway. We have all seen an oil sheen on the asphalt in a parking lot and, yes, the contaminant causing that sheen will soon be in the nearby creek in which you may like to fish or swim. Have you ever dumped something down a storm drain? Did you know pet waste contributes to bacterial impairments in streams? Do you wash your car over a storm drain? Are there any other contaminants you leave exposed to precipitation? If so, you are contributing to the degradation of our waterways!

What is an Illicit Discharge?

Illicit discharges can threaten public safety, public health, and the environment. An illicit discharge is any substance other than stormwater that enters the storm sewer system or receiving waterbody. Illicit discharges can occur on account of specific activities that can result in the exposure of materials to precipitation that could be transported through stormwater runoff.

Examples include:

- Vehicle or equipment washing;
- Hydraulic fluid or fuel leaks from vehicles and equipment;
- Excessive application of pesticides, herbicides and fertilizers; and
- Dumping of trash or other waste

Allowable non-stormwater discharges include fire-fighting activities, water line flushing, and landscape or lawn irrigation. These discharges may flow into the storm sewer or waterway without consequence.

Illicit discharges are prohibited on NOVA campuses and enforcement is implemented with corrective or disciplinary action consistent with the NOVA Policy 11.9.1, Pollution Prevention incorporated into the student, faculty and staff handbooks.

<http://www.nvcc.edu/policies/docs/pollution-prevention-policy.pdf>

Illicit discharges should be reported to NOVA immediately so that appropriate corrective actions can be taken. Corrective actions are taken as necessary by NOVA.

What Steps Can You Take?

Report Illicit Discharges: If you see an illicit discharge, a potential source for an illicit discharge, or witness illegal dumping, you should contact the appropriate personnel in accordance with NOVA's Pollution Prevention Policy <http://www.nvcc.edu/policies/docs/pollution-prevention-policy.pdf>.

Do not cause an illicit discharge: Be mindful when performing activities that could introduce pollutants to stormwater runoff:

- Pick up and properly dispose of pet waste.
- Clean up vehicle fluid or fuel leaks and spills.
- Properly dispose of hazardous substances such as automotive oil, cooking oil, paint, cleaners, etc.
- Apply pesticides, herbicides, and fertilizers per the manufacturer's specifications.

Stormwater Impacts

Receiving waters downstream of storm sewer systems are impacted by the increased volume and velocity of runoff, along with the pollutants transported within the runoff.

Flooding: Stormwater runoff from intense rainfall can exceed the carrying capacity of the stormwater system and waterways which can lead to the flooding of roads, yards and structures.

Erosion: Uncontrolled stormwater rapidly increases the amount of runoff flowing into a stream which can wash away stream the bank and transport the sediment downstream impacting aquatic habitat and water quality.

Pollution: Stormwater runoff flows across surfaces such as parking lots and roadways. It mobilizes contaminants such as animal waste, chemicals, pesticides, hydraulic oil, trash and sediment. These contaminants are then transported downstream to streams, rivers and ultimately the ocean. These contaminants can harm aquatic habitats and prevent recreational use in waterways.

NOVA's Stormwater Program

The Environmental Protection Agency (EPA) and the Virginia Department of Environmental Quality (DEQ) regulate stormwater runoff, including runoff from NOVA's storm sewer system. In response, NOVA implements a comprehensive stormwater management program. NOVA's program addresses stormwater with a multifaceted approach that includes:

- Public education and outreach on stormwater impacts;
- Public involvement/participation in activities targeted to improve stormwater quality;
- Detection and elimination of illicit (non-stormwater) discharges to the storm sewer;
- Requirements for construction site runoff controls;
- Requirements to provide long-term stormwater management practices for new construction;
- Standard operating procedures to minimize/eliminate negative impacts from campus and contractor activities;
- Implementation of stormwater best management practices to reduce pollutant loads.

For questions or comments concerning

NOVA's Stormwater Management Program or to learn about volunteer opportunities, contact NOVA's Environmental Compliance Officer at: stormwater@nvcc.edu.

ENVIRONMENTAL SERVICES



Municipal Separate Storm Sewer System (MS4) Stormwater Program

- MS4 General Permit
- Special Conditions for Total Maximum Daily Loads (TMDLs)
- Minimum Control Measures (MCMs)
- Best Management Practices (BMPs)
- Regulated Land Disturbing Activities
- Stormwater Pollution Prevention Plans (SWPPP)
- Training
- Annual Reporting to VA DEQ

MS4 General Permit

- Required under the Clean Water Act and Virginia DEQ
- State general VPDES permit to allow for discharges of stormwater from small MS4 systems to surface waters of the state.
- Small MS4s are entities located in census urbanized areas with less than 100,000 in population.
- Five-year permits that cover the AL, AN, LO, and WO campuses; MA and MEC currently exempt.
- Requires implementation and enforcement of an MS4 Program Plan to reduce the discharge of pollutants from the MS4 system to the maximum extent practicable (MEP).

MS4 General Permit

- MEP ensures compliance to water quality standards if the MS4 program:
 - Addresses Special Conditions for Total Maximum Daily Loads (TMDLs)
 - Addresses Minimum Control Measures with Best Management Practices (BMPs) implementation
 - BMPs can be structural or nonstructural
- Penalties for violations are up to \$35,000/day/violation and possible imprisonment

Total Maximum Daily Load (TMDL)

TMDL is a plan (pollution diet) that establishes the maximum amount of a pollutant a waterbody can hold and meet water quality standards.

WLA is the quantity of the pollutant (sediment, nitrogen, phosphorous, bacteria, chloride, PCB etc.) that may be discharged.

Waterbodies are tested and those that do not meet water quality standards are given impairments for the pollutant(s) of concern (POC).

MS4s are assigned a WLA for the POC and must meet annual reductions requirements per a TMDL Action Plan



Waterbody determined to not meeting water quality standards



TMDL created to address water quality issue



Assign WLA for pollutant(s) of concern (POC) to point sources



Total Maximum Daily Loads (TMDLs)

- Neabsco Creek Bacterial TMDL (WO)
- Accotink Creek Chloride TMDL (AN)
- Accotink Creek Sediment TMDL (AN)
- Chesapeake Bay TMDL Act (All MS4 Campuses – AL, AN, LO, WO)

Action Plan for the Neabsco Creek Bacteria TMDL

(2018 - 2023 MS4 General Permit)

A Plan to Address NOVA's Assigned Wasteload Allocation for the Woodbridge Campus



Permit #: VAR040095
Prepared: June 2015
Updated: April 2020

This document addresses Part II B, of the General Virginia Pollution Discharge Elimination System Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer System. This document serves as a specific Total Maximum Daily Load Action Plan to identify the best management practices and other stormwater reduction activities to be implemented to address the bacteria wasteload allocation assigned to NOVA's regulated MS4 area in the "Bacteria TMDL for Neabsco Creek, Prince William County, Virginia," approved by the Environmental Protection Agency on September 10, 2008.

Northern Virginia Community College

Woodbridge Campus

EEE Consulting, Inc.

3e

Action Plan for the Accotink Creek Chloride TMDL

A Plan to Address NOVA's Assigned Wasteload Allocation for the Annandale Campus



Permit #: VAR040095
Prepared: May 2021

This document addresses Part II B, of the General Virginia Pollution Discharge Elimination System Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer System. This document serves as a specific Total Maximum Daily Load Action Plan to identify the best management practices and other stormwater reduction activities to be implemented to address the chloride wasteload allocation assigned to NOVA's regulated MS4 area in the "Chloride TMDL for the Accotink Creek Watershed, Fairfax County, Virginia," approved by the Environmental Protection Agency on May 23, 2018.

Wetland Studies and Solutions, Inc. a DAVEY company

ACCOTINK CREEK SEDIMENT TMDL ACTION PLAN

(2018 - 2023 MS4 General Permit)

A Plan for Achieving Sediment Load Reductions to Meet NOVA's TMDL Wasteload Allocation



Permit #: VAR040095
Revised October 2022

This document addresses Part II B of the General Virginia Pollution Discharge Elimination System (VDES) Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer System (MS4). This document serves as a NOVA-specific Total Maximum Daily Load (TMDL) Action Plan to identify the best management practices and other stormwater reduction activities to be implemented to address the sediment waste load allocation (WLA) assigned to NVCC's regulated MS4 area in the "Sediment TMDL for the Accotink Creek Watershed, Fairfax County, Virginia" approved by the Environmental Protection Agency on May 23, 2018.

Northern Virginia Community College

Annandale Campus

Wetland Studies and Solutions, Inc. a DAVEY company

CHESAPEAKE BAY TMDL ACTION PLAN

A Plan for Achieving a 35% Reduction (40% Overall) in Accordance with 9VAC25-890-40 1.C.5a-b

June 30, 2022



Summary of Specific Reapplication Package Requirements

2013-2018 General Permit Regulation	Document Section
Section 1.C.5.a	Section 4.1
Section 1.C.5.b.1	Section 3.5
Section 1.C.5.b.2	Section 3.5
Section 1.C.5.b.3	Section 3.5
Section 1.C.5.b.3	Section 3.5

This plan satisfies the requirements of Section (C) of the 2013 - 2018 MS4 General Permit (9VAC25-890-40) and Part II A of the 2018 - 2023 MS4 General Permit for Specific Conditions for the Chesapeake Bay TMDL. This plan is consistent with the Chesapeake Bay TMDL and the Virginia Phase I and II WQS to meet the Level II DCL loading rate for existing developed lands as it represents an implementation of 5.0% and 20% of L2.

Northern Virginia Community College



Alexandria Campus



Annandale Campus



Loudoun Campus



Woodbridge Campus


Wetland Studies and Solutions, Inc. a DAVEY company

Neabsco Creek Bacterial TMDL Action Plan

**Action Plan for the
Neabsco Creek
Bacteria TMDL**
(2018 - 2023 MS4 General Permit)

Northern Virginia
Community
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Woodbridge Campus

A Plan to Address NOVA's
Assigned Wasteload Allocation
for the Woodbridge Campus



Permit # VAR040095
Prepared: June 2015
Updated: April 2020

This document addresses Part II B, of the General Virginia Pollution Discharge Elimination System Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer System. This document serves as a specific Total Maximum Daily Load Action Plan to identify the best management practices and other interim milestone activities to be implemented to address the bacteria wasteload allocation assigned to NOVA's regulated MS4 area in the "Bacteria TMDL for Neabsco Creek, Prince William County, Virginia," approved by the Environmental Protection Agency on September 10, 2008.

EEE Consulting, Inc.
3e


- Plan to address waste load allocation for Woodbridge Campus
- POC is Escherichia coli (E. coli) of 1.05 X 10¹² cfu/day which is equivalent to a 71% reduction from the existing conditions
- NOVA uses Geese Police (goose abatement) for bacterial reduction and public outreach signage



Accotink Creek Chloride TMDL Action Plan

**Action Plan for the
Accotink Creek
Chloride TMDL**

A Plan to Address NOVA's
Assigned Wasteload Allocation
for the Annandale Campus



Permit #: VAR040095
Prepared: May 2021

This document addresses Part II B, of the General Virginia Pollution Discharge Elimination System Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer System. This document serves as a specific Total Maximum Daily Load Action Plan to identify the best management practices and other interim milestone activities to be implemented to address the Chloride wasteload allocation assigned to NOVA's regulated MS4 area in the "Chloride TMDL for the Accotink Creek Watershed, Fairfax County, Virginia," approved by the Environmental Protection Agency on May 23, 2018.

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Addresses how the Annandale Campus will achieve chloride reductions

Salt Management Plan strategies to achieve reductions by:

- minimizing salt usage
- tracking salt usage
- optimize application rates
- Develop SOPs and training

Accotink Creek Sediment TMDL Action Plan

ACCOTINK CREEK SEDIMENT TMDL ACTION PLAN

(2018 - 2023 MS4 General Permit)

A Plan for Achieving Sediment Load Reductions
to Meet NOVA's TMDL Wasteload Allocation



Permit #: VAR040095
Revised October 2022

This document addresses Part II B of the General Virginia Pollution Discharge Elimination System (VPDES) Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4). This document serves as a NOVA-specific Total Maximum Daily Load (TMDL) Action Plan to identify the best management practices and other stormwater mitigation activities to be implemented to address the sediment waste load allocation (WLA) assigned to NVCC's regulated MS4 area in the "Phase II Sediment TMDL for the Accotink Creek Watershed, Fairfax County, Virginia" approved by the Environmental Protection Agency on May 23, 2018.

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- For the Accotink Creek Sediment TMDL, the WLA assigns a 76% reduction in existing sediment loads from the Annandale Campus
- Street sweeping selected as a BMP to achieve the sediment reductions
- 2028 is the current end date

Chesapeake Bay TMDL Action Plan


**CHESAPEAKE BAY
TMDL ACTION PLAN**

A Plan for Achieving a 35% Reduction (40% Overall)
in Accordance with 9VAC25-890-40 1.C.5.a-b


June 30, 2022




**Northern Virginia
Community
College**




Alexandria Campus



Annandale Campus



Loudoun Campus




Woodbridge Campus

Summary of Specific Reapplication Package Requirements

2013-2018 General Permit Regulation	Document Section
Section 1.C.5.a	Section 4.1
Section 1.C.5.b.1	Section 3.5
Section 1.C.5.b.2	Section 3.5
Section 1.C.5.b.3	Section 3.5
Section 1.C.5.b.3	Section 3.5

This plan satisfies the requirements of Section (C) of the 2013 - 2018 MSA General Permit (9VAC25-890-40) and Part B A of the 2018 - 2023 MSA General Permit for Special Conditions for the Chesapeake Bay TMDL. This plan is consistent with the Chesapeake Bay TMDL and the Virginia Phase I and II WPs to meet the Level 2 (L2) loading rate for existing developed lands as it represents an implementation of 5.0% and 35% of L2.



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- Applies to all MS4 Campuses (AL, AN, LO, WO)
- Address the reductions for phosphorus, nitrogen and total suspended solids
- Reductions achieved through BMPs, ESC/SWM, street sweeping
- Effectiveness measured through annual report
- Need 100% reduction by 2028

Minimum Control Measures (MCMs)

- Public Education and Outreach on Stormwater Impacts
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination (IDDE)
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management
- Pollution Prevention/Good Housekeeping for Operations



MS4 Program Plan

Consists of:

1. Campus specific Nutrient Management Plans
 2. Post-Construction Stormwater Management Inspection & Maintenance
 3. Good Housekeeping & Pollution Prevention
 4. Illicit Discharge* Detection and Elimination (IDDE)
- Addresses MCMs through these practices

*NOVA defines an illicit discharge as any release into the MS4 other than stormwater or any exempt activities

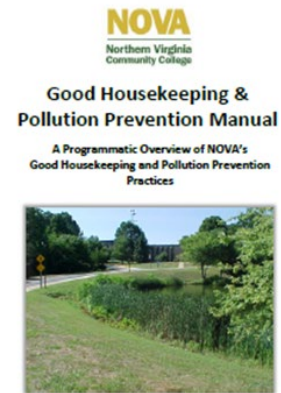
**Nutrient Management Plan
for the
Annandale Campus
Northern Virginia Community College**

Prepared for:
Northern Virginia Community College
Facilities Planning Division, Rm. 314B
8333 Little River Turnpike
Annandale, VA 22003

Prepared By:
Sara J. Riberia, Certified Nutrient Management Planner - Certification No. 943

WSSI, Inc.
8525 Bell Creek Road
Mechanicville, VA 23116

Location Information	
Physical Address	8333 Little River Turnpike
City/State/Zip	Annandale, VA 22003
Coordinates	-38 50' 3.30"
NAD 83 Deg Min Sec	- 77 14' 12.07"
VAHUS Watershed Code	PL30 - Accotink Creek
County	Fairfax
Square Footage of Management Areas	
Total	13.74 acres (590,375 sq ft)
Area 1	13.74 acres (590,375 sq ft)
Plan Start Date	July 15, 2021
Plan End Date	July 15, 2024
Planner Signature	Sara Riberia



June 2019

NOVA - Alexandria Campus
5000 Dawes Avenue
Alexandria, VA 22311

NOVA - Annandale Campus
8333 Little River Turnpike
Annandale, VA 22003

NOVA - Loudoun Campus
21200 Campus Drive
Sterling, VA 20164

NOVA - Woodbridge Campus
2645 College Drive
Woodbridge, VA 22191

For concerns related to Good Housekeeping & Pollution Prevention or for reporting pollution into stormwater runoff contact David Trimble (Environmental Compliance Officer) at (703) 764-5095.

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**Post-Construction Stormwater
Management Inspection &
Maintenance Manual**



June 2019

NOVA - Alexandria Campus
5000 Dawes Avenue
Alexandria, VA 22311

NOVA - Annandale Campus
8333 Little River Turnpike
Annandale, VA 22003

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**Illicit Discharge Detection and
Elimination Manual**



June 2022

NOVA - Alexandria Campus
5000 Dawes Avenue
Alexandria, VA 22311

NOVA - Annandale Campus
8333 Little River Turnpike
Annandale, VA 22003

NOVA - Loudoun Campus
21200 Campus Drive
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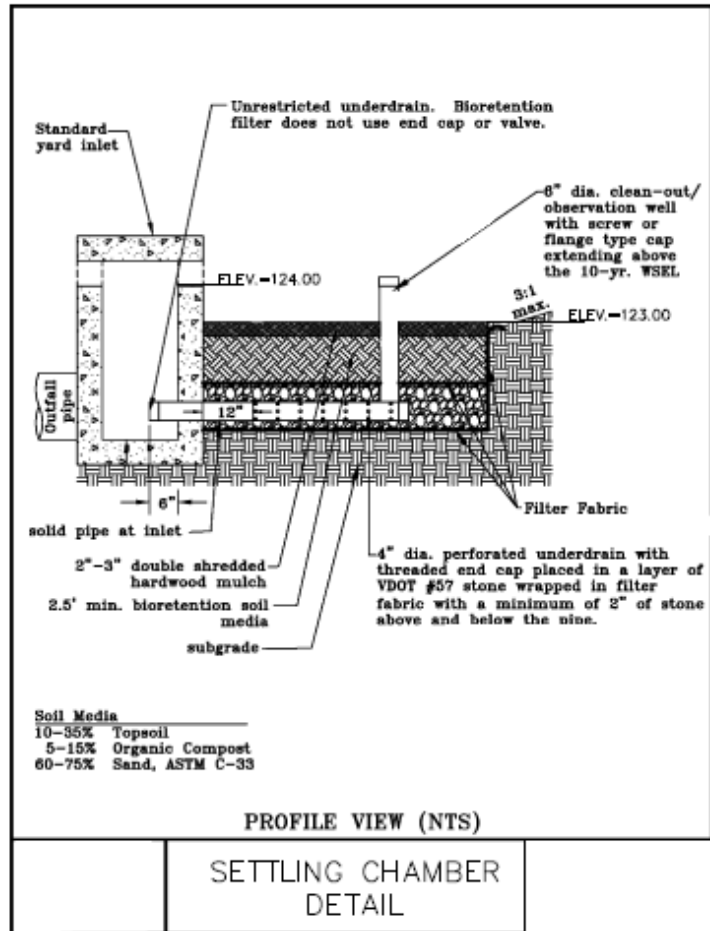
For concerns related to Illicit Discharge Detection and Elimination or for reporting pollution into stormwater runoff contact David Trimble, Environmental Compliance Officer at (703) 764-5095.

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Best Management Practices (BMPs)

- Stormwater Program Plan includes BMPs to address MS4 General Permit requirements for each MCM
- Can be structural or a practice – examples include Bioretention Basins, Underground Detention Facilities, and Street Sweeping Practices
- Structural BMPs must be regularly maintained and annually inspected as part of MS4 General Permit
- Additional structural BMPs in future projects primary avenue for 100% total pollution reduction

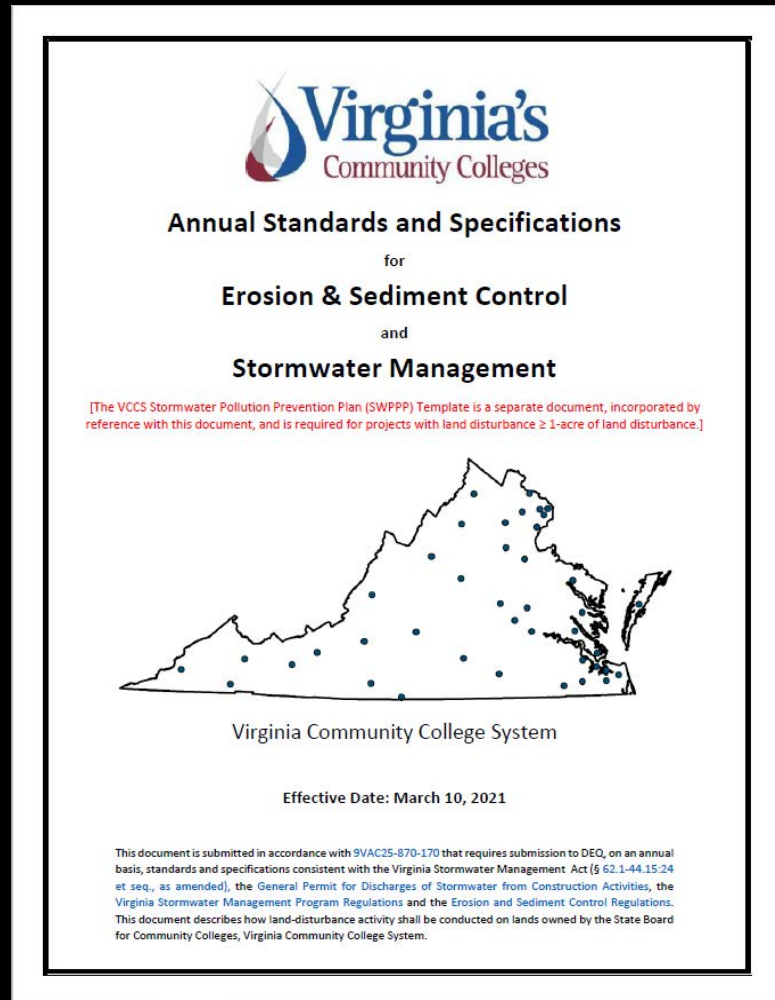
BMPs – WO-1 Bioretention Basin



Street Sweeping Program

- Applicable to all MS4 Campuses
- NOVA owns 3 Street Sweepers
- Require sweeping frequency of 2 passes per month at a minimum of 11 lane miles per pass to meet DEQ mandated reduction requirement
- Env Specialist keeps record of sweeping events – is part of annual report
- Street Sweeping is suspended during salting operations

Regulated Land Disturbing Activities



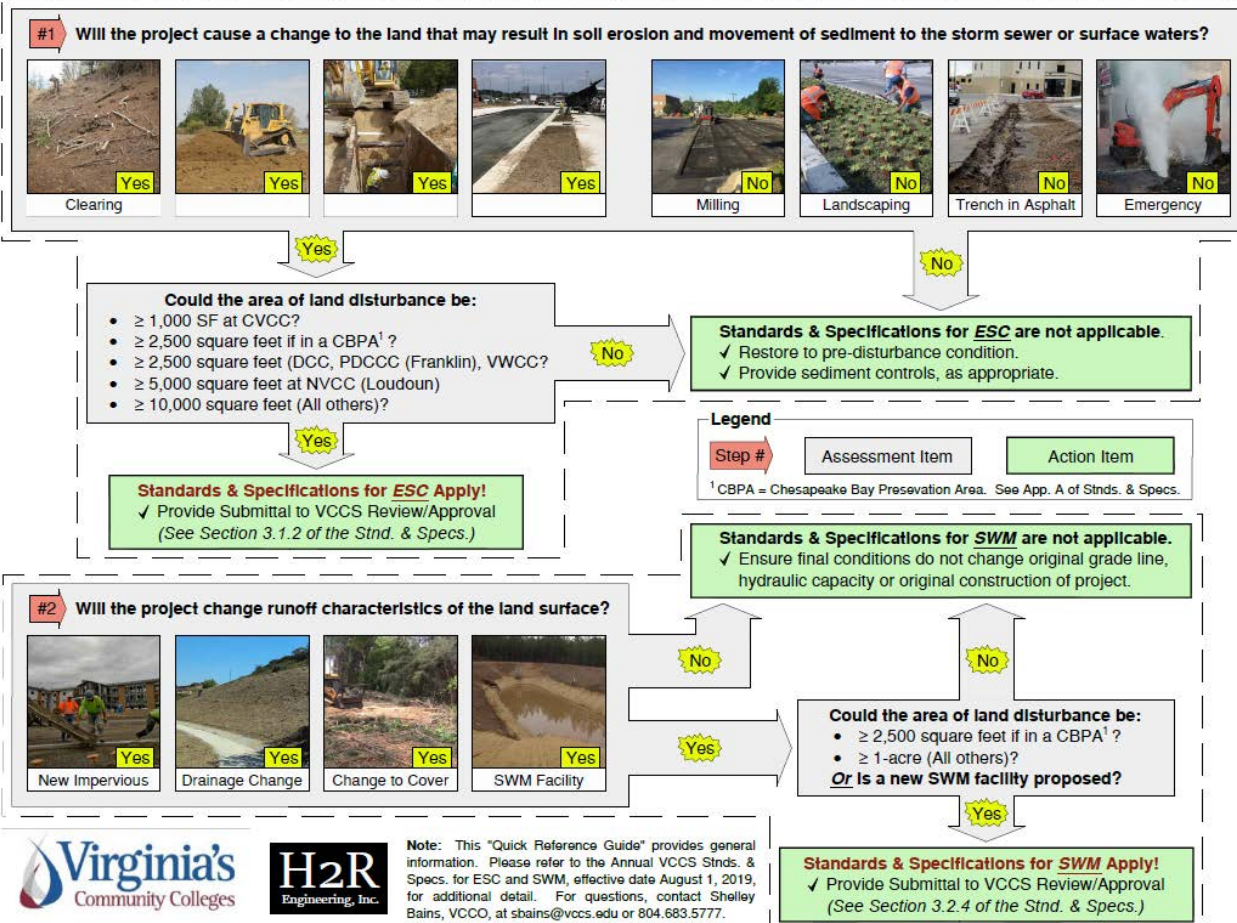
"Land disturbance" or "land-disturbing activity" - a manmade change to the land surface that potentially changes its runoff characteristics including clearing, grading, or excavation as per VA Administrative Code

ESC and Stormwater plans required if land disturbance is >2,500 sq ft (>5,000 sq ft for Loudoun)

If >1 acre, Construction General Permit and SWPPP required

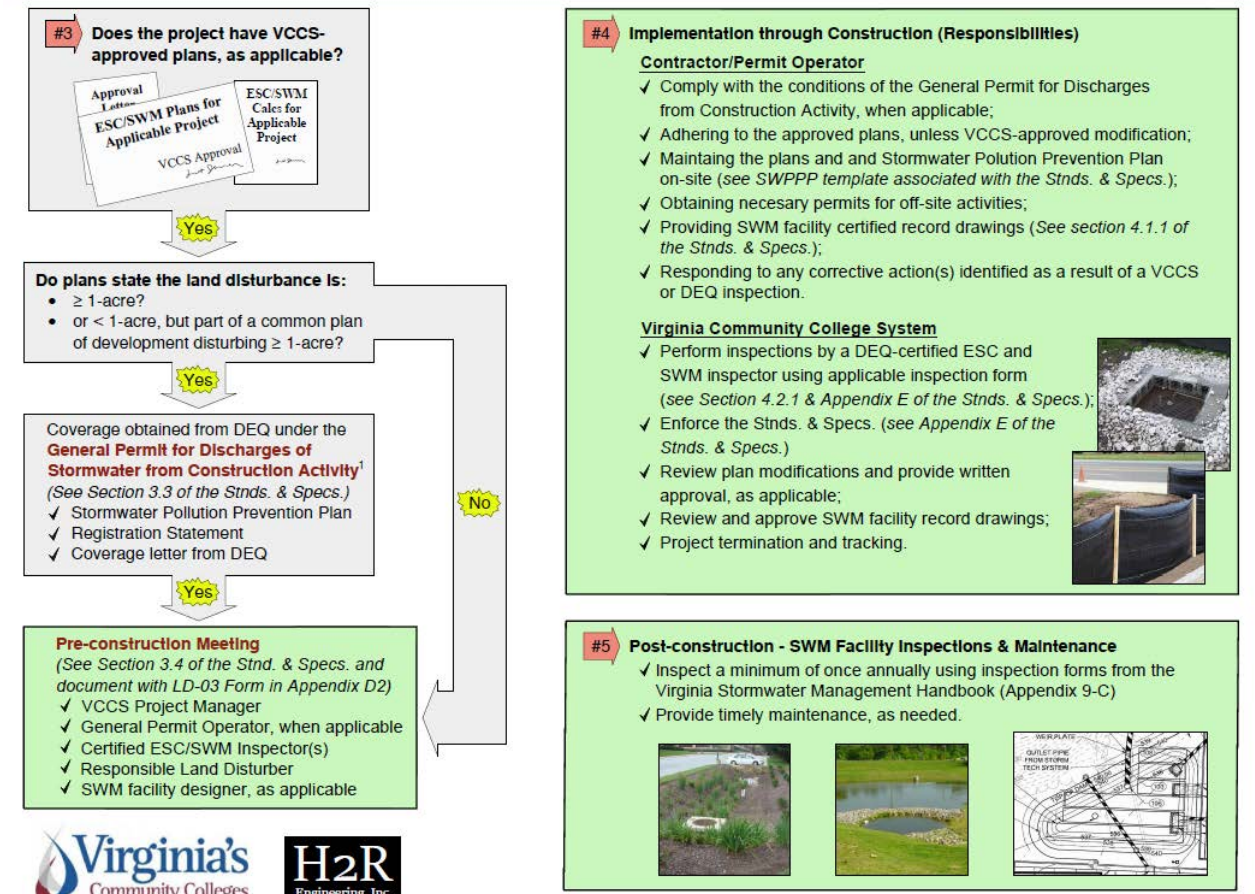
- Env Services:
 - Reviews construction drawings for compliance with Erosion and Sediment Control (ESC) and Stormwater Management (SWM) regulations
 - Conducts ESC and SW inspections
 - Works with PMs/contractors/engineers/VCCS to ensure compliance during construction

QUICK REFERENCE GUIDE: VCCS Standards and Specifications for Erosion & Sediment Control and Stormwater Management



Note: This "Quick Reference Guide" provides general information. Please refer to the Annual VCCS Stnds. & Specs. for ESC and SWM, effective date August 1, 2019, for additional detail. For questions, contact Shelley Bains, VCCO, at sbains@vccs.edu or 804.683.5777.

QUICK REFERENCE GUIDE: VCCS Standards and Specifications for Erosion & Sediment Control and Stormwater Management



¹ The project contractor shall be the permittee for coverage under the construction general permit.

Flip to continue ...

Stormwater Pollution Prevention Plans (SWPPPs)

- Required under MS4 General Permit for NOVA operations for each campus
- Inspection conducted monthly by Env Services Team
- Map and checklist of areas for high potential of pollutant contamination such as generator locations, dumpster locations, fueling operations locations etc.

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Northern Virginia Community College

Annandale Campus

Utilize this form in conjunction with the Annandale Campus Stormwater Pollution Prevention Plan (SWPPP) Map and, when needed, NOVA's Good Housekeeping and Pollution Prevention (GH/PP) Manual, latest edition. Refer to Sections 5.0 Operations & Maintenance (O&M) Procedures and 6.0 Waste Management and Disposal Procedures.

Inspector: _____
Inspection Date: _____

SWPPP Inspection Form

Completion of this form is required once per year as a compliance condition of NOVA's MS4 General Permit. Also, utilize this form for monthly inspections to note issues requiring corrective action. This completed form shall be provided to the Environmental Compliance Officer (ECO) after inspections are completed. The ECO shall utilize the Findings & Follow-up Form in conjunction with this form. Once follow-up is completed, it shall be indicated or noted on this Inspection Form. The inspection is not complete until appropriate follow-up findings have been documented on this Inspection Form. Maintain completed SWPPP Inspection Form and Findings & Follow-up Forms with accompanying SWPPP Map.

Salt Storage/Operations
Potential Pollutant and Sources: Chloride or salt.

- No leaks from the brine tank is evident.
- No tracking of salt, sand or grit by vehicles or equipment is evident on ground.
- No other pollutants identified on the ground or otherwise exposed to precipitation.

If any response above is Not Correct, corrective action is necessary (see Quick Reference Guide and O&M Section 5.10).
Corrective action to be completed by Inspector or designated staff:

①	Corrective Action Applicable:		Corrective Item Performed:	
	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

(CW Loading Dock)

Outdoor Loading
Potential Pollutant and Sources: Trash from packaging materials, rust, fluids, erodible materials, etc.

- No erodible materials, trash, metals, fluids, etc. are left outside of loading area.
- No spills or leaks from vehicles/equipment are evident.
- No other pollutants are identified on the ground or under vehicles/equipment.

If any response above is Not Correct, corrective action is necessary (see Quick Reference Guide and O&M Section 5.7).
Corrective action to be completed by Inspector or designated staff:

①	Corrective Action Applicable:		Corrective Item Performed:	
	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

(CW Loading Dock)

Dumpsters
Potential Pollutant and Sources: Various liquids, solids, and rust.

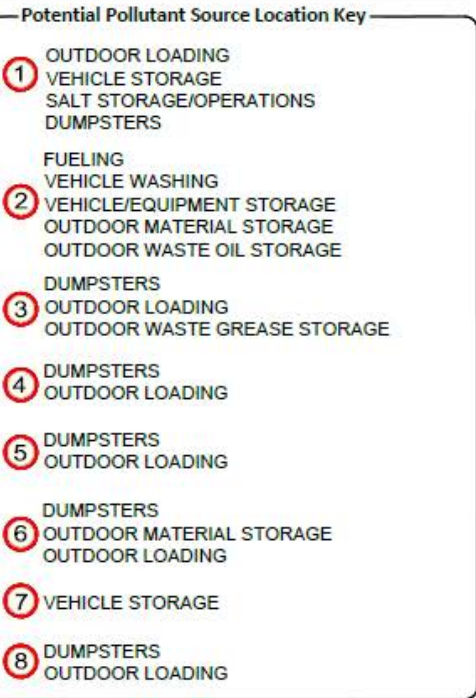
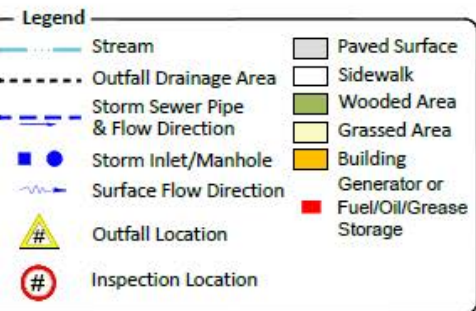
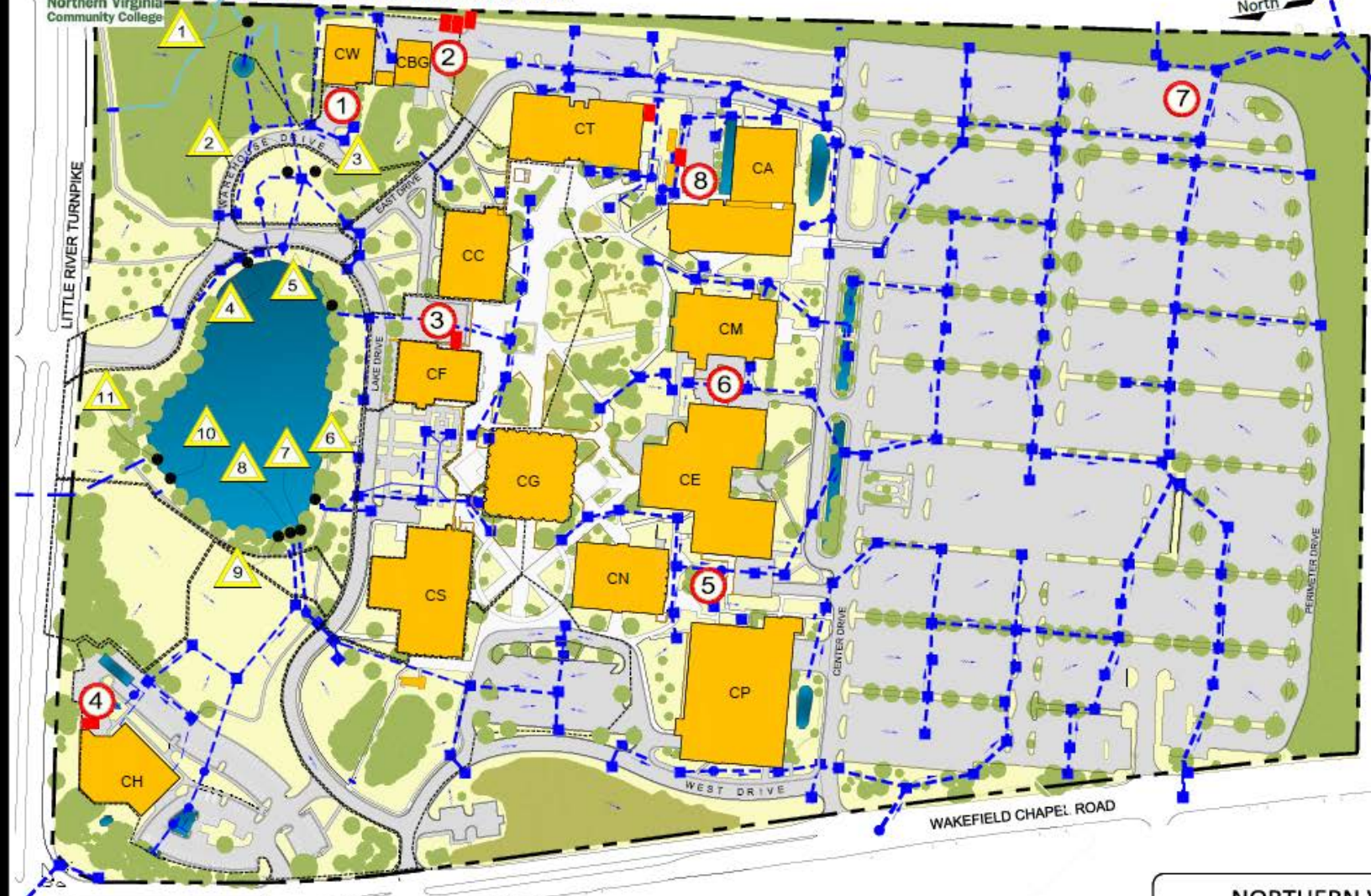
- Dumpster lids are closed and covered, if no lids.
- Dumpsters are not damaged or the bottoms rusted out.
- No evidence of leaking or rust leaching into the ground.
- No accumulation of trash is outside the dumpsters.

If any response above is Not Correct, corrective action is necessary (see Quick Reference Guide and O&M Section 5.5).
Corrective action to be completed by Inspector or designated staff:

①	Corrective Action Applicable:		Corrective Item Performed:	
	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

(CW Loading Dock)

June 2019 Northern Virginia Community College Annandale Campus - Page 1 of 5



JUNE 2019

SWPPP Inspection Notes

In addition to the Potential Pollutant Source Locations identified on the map, the inspection shall also observe and report:

1. Areas of erosion occurring on-site;
2. Locations of exposed soils (i.e. lack of gravel cover);
3. Oil, hydraulic fluid, or chemical spills;
4. Open (uncovered) and unlabeled containers; and
5. Any other potential pollutant that could be exposed to precipitation and stormwater runoff.

SWPPP Inspection Procedures

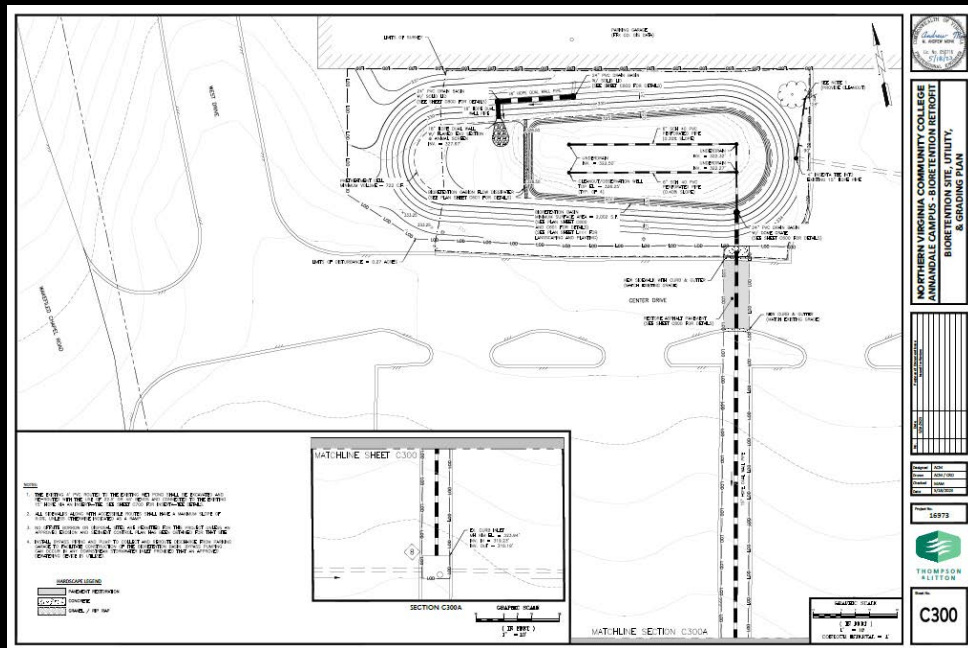
- Inspect potential pollution source locations in sequence with numbering on the map.
- Reference the back of this map to assist with identification of pollutant concerns at each location and practices to address potential pollutant exposure to stormwater runoff.
- Complete the Inspection Form for each corresponding location during inspection.
- Submit completed form to the Environmental Compliance Officer.
- Conduct follow-up to findings, as directed by the Environmental Compliance Officer.
- Document on Inspection Form the completion of follow-up actions.

**NORTHERN VIRGINIA COMMUNITY COLLEGE
ANNANDALE CAMPUS
STORMWATER POLLUTION PREVENTION PLAN MAP**

Scale: 1" = 200'

Note: This map is required to be updated when any new infrastructure is built (buildings, storm sewer, outfalls, etc.) or any possible pollutant generating activities are created, moved, or eliminated (new dumpster, new stockpile area, etc.). Notify the Environmental Compliance Officer regarding changes in the field not depicted on this map.

Stormwater Projects



- Maintenance and repair projects on existing stormwater sewer system
- Development/design of new BMPs
- Ongoing contracts for BMP maintenance
- Retrofit BMPs
- Research methods to achieve 100% reduction goal
- Work with PMs on non-capital and capital projects for ESC and SW compliance
- Track regulatory changes that affect NOVA environmental compliance

Stormwater Pollution Prevention Website

- Required by the MS4 permit
- Use as a public outreach tool
- Source of information – including stormwater/erosion and sediment control regulations, VCCS standards and Specifications, etc.
- Provides Stormwater Program Manager contact information to public
- <https://www.nvcc.edu/stormwater/>

MS4 Annual Reporting

Documents NOVA's annual required MCM and TMDL activities to maintain permit compliance

- BMP/Outfall Inspections
- IDDEs
- Land disturbance activities
- Fertilizer and Pesticide Application Records
- Nutrient Management Plans
- Public education and participation

NOVA
Northern Virginia
Community College

Alexandria, Annandale,
Loudoun & Woodbridge Campuses

Municipal Separate Storm Sewer System
Annual Report
For
General Permit No. VAR040095

Permit Year
July 1, 2021 through June 30, 2022

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, 2022

Dam Safety

- 2 Regulated Dams on NOVA property – AN and WO



Dam Safety

- Required to be inspected annually; every three years by a PE; otherwise by owner (Env Services)
- Monthly inspections done by Env Services to collect monitoring data and check on condition of dam; more often if get heavy rains
- Annual inspections reported to VA DCR
- Emergency Action Plans (EAPs) and table-top exercises required as part of permit, updated every 6 years or earlier if any changes
- Regular O&M Certificate must be renewed every 6 years

Landscape Management

- Environmental team oversees all landscape projects and tree work
- Budget management (except annual contract)
- Quality control including design, proper installation techniques, water scheduling, and coordination with the campuses in line with Landscape Master Plan
- Arborist services (both tree work and consulting)
- Tree inventory and forest management
- Geese Management
- Irrigation Management

Underground Storage Tanks (USTs)

- Regulated by VA DEQ
- 2 USTs located at AN campus CBG Building (1 gasoline, 1 diesel) – used for vehicle fleet operations at AN
- AN UST piping in poor condition – riser repair completed recently
- UST at WO recently removed
- Monthly walk-through inspections required by Env Services personnel
- Annual walk-through inspection, ATG certification of tank monitors, and overfill drop tube inspection required, done by a contractor
- Operator Training/Certification



Spill Prevention Control and Countermeasures (SPCC)

Tier I Qualified Facility SPCC Plan

This template constitutes the SPCC Plan for the facility, when completed and signed by the owner or operator of a facility that meets the applicability criteria in §112.3(g)(1). This template addresses the requirements of 40 CFR part 112. Maintain a complete copy of the Plan at the facility if the facility is normally attended at least four hours per day, or for a facility attended fewer than four hours per day, at the nearest field office. When making operational changes at a facility that are necessary to comply with the rule requirements, the owner/operator should follow state and local requirements (such as for permitting, design and construction) and obtain professional assistance, as appropriate.

Facility Description

Facility Name NORTHERN VIRGINIA COMMUNITY COLLEGE – ANNANDALE CAMPUS
Facility Address 8333 LITTLE RIVER TURNPIKE
City ANNANDALE State VIRGINIA ZIP 22003
County FAIRFAX Tel. Number (703) 323 - 3267
Owner or Operator Name NORTHERN VIRGINIA COMMUNITY COLLEGE – ANNANDALE CAMPUS
Owner or Operator Address 8333 LITTLE RIVER TURNPIKE
City ANNANDALE State VIRGINIA ZIP 22003
County FAIRFAX Tel. Number (703) 784 - 5070

I. Self-Certification Statement (§112.6(a)(1))

The owner or operator of a facility certifies that each of the following is true in order to utilize this template to comply with the SPCC requirements:

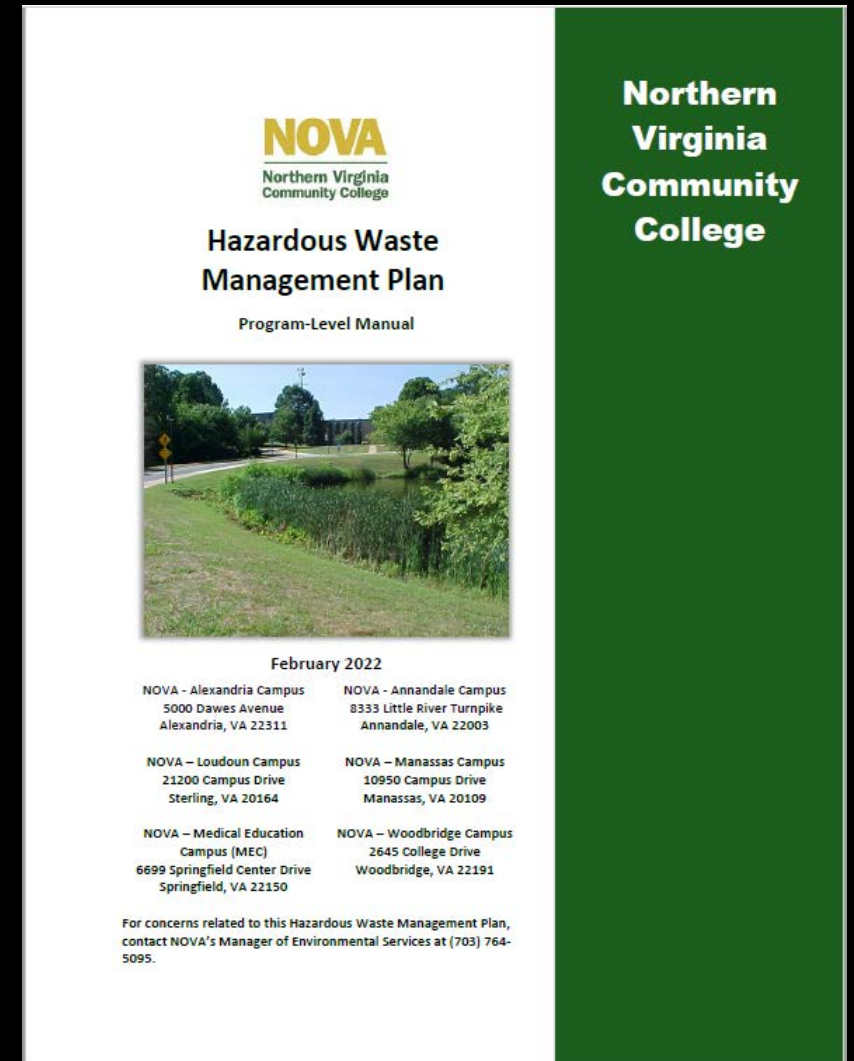
I, STEVEN M. PATTERSON certify that the following is accurate:

1. I am familiar with the applicable requirements of 40 CFR part 112;
2. I have visited and examined the facility;
3. This Plan was prepared in accordance with accepted and sound industry practices and standards;
4. Procedures for required inspections and testing have been established in accordance with industry inspection and testing standards or recommended practices;
5. I will fully implement the Plan;
6. This facility meets the following qualification criteria (under §112.3(g)(1)):
 - a. The aggregate aboveground oil storage capacity of the facility is 10,000 U.S. gallons or less; and
 - b. The facility has had no single discharge as described in §112.1(b) exceeding 1,000 U.S. gallons and no two discharges as described in §112.1(b) each exceeding 42 U.S. gallons within any twelve month period in the three years prior to the SPCC Plan self-certification date, or since becoming subject to 40 CFR part 112 if the facility has been in operation for less than three years (not including oil discharges as described in §112.1(b) that are the result of natural disasters, acts of war, or terrorism); and
 - c. There is no individual oil storage container at the facility with an aboveground capacity greater than 5,000 U.S. gallons.
7. This Plan does not deviate from any requirement of 40 CFR part 112 as allowed by §112.7(a)(2) (environmental equivalence) and §112.7(d) (impracticability of secondary containment) or include any measures pursuant to §112.9(c)(6) for produced water containers and any associated piping;
8. This Plan and individual(s) responsible for implementing this Plan have the full approval of management and I have committed the necessary resources to fully implement this Plan.

- Required by EPA due to quantity of petroleum on campuses
- Campus specific plans for AL, AN, LO, and WO
- Monthly inspections for high potential spill areas such as ASTs, generators, elevator oil tanks, other storage tanks
- Inspecting for leaks, spills, and status of spill kit contents


Hazardous Waste Program

- Program Level Guide
- Shop Level Guide
- Personnel Roles/Responsibilities
- Operational Procedures – storage, labeling, Disposal
- Spill Response



NOVA
Northern Virginia
Community College

**Hazardous Waste
Management Plan**
Program-Level Manual



February 2022

NOVA - Alexandria Campus 5000 Dawes Avenue Alexandria, VA 22311	NOVA - Annandale Campus 8333 Little River Turnpike Annandale, VA 22003
NOVA - Loudoun Campus 21200 Campus Drive Sterling, VA 20164	NOVA - Manassas Campus 10950 Campus Drive Manassas, VA 20109
NOVA - Medical Education Campus (MEC) 6699 Springfield Center Drive Springfield, VA 22150	NOVA - Woodbridge Campus 2645 College Drive Woodbridge, VA 22191

For concerns related to this Hazardous Waste Management Plan, contact NOVA's Manager of Environmental Services at (703) 764-5095.

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Other Responsibilities

- Facilities Safety – training, PPE, equipment inspections
- Utilities (all campuses) – manage utility maps, track demarcation points, ensure utilities marked prior to land disturbing activities, check markings with utility maps to note any discrepancies
- Easement Mapping
- Property Boundary Surveying
- GIS Support Services
- Vehicle Fleet Management



STOP

AE

HOURLY PARKING ONLY
Pay Upon Arrival
Parking Rate:
\$3.00 Per Hour
\$20.00 Daily Max
See Sign for Hours

HOURLY PARKING ONLY
Pay Upon Arrival
1. Park Vehicle
2. Make Payment
3. Pay At Pay Station
Pay Station Not
Parking Lot Entrance
No Cash Payment
See Sign for Hours

NO DRINKING
SEE SIGN FOR HOURS







