

MS4 Annual Report

Permit No. VAR040052

Reporting Period

July 1, 2022– June 30, 2023

for the

Virginia Institute of Marine Science

Gloucester Point, Virginia

Contact Person: Mark Brabham

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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.

Signature: Joseph Martinez

Printed Name: Joseph Martinez

Title: Chief Operations Officer

Date: October 1, 2023

Minimum Control Standards (Part I.E.)

1. Public Education and Outreach

g. Annual Report Requirement:

(1) A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program; *See Table 1.*

(2) A list of the strategies used to communicate each high-priority stormwater issue. *See Table 1.*

Table 1

BMP	Description	Responsible Party	Audience	Strategy	Time Period
1.1	Vehicular Pollutants	Facilities Management	Campus Staff and Students	Traditional written Materials/Flyer fact sheets	Annually
1.2	Reduce Litter & Debris	Facilities Management	Campus Staff	Media Materials/Electronic Media	Annually
1.3	Reduction of Sediment Deposit	Facilities Management	Campus Staff, students, visitors	Signage/Storm Drain Stenciling	Permanent
1.4	Boat Basin Activities	Facilities Management, Marine Operations	Campus Staff	Training materials	Annually

****Evaluation of the MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary (Part I D.2.e.):**

The current strategies are effective in reaching the maximum audience and the audience that most affect the MS4 Program. Changes are not needed; however, their effectiveness will be evaluated regularly.

2. Public involvement and participation.

f. Annual Report Requirement:

(1) A summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded;

There were no public inputs or complaints during the report period.

(2) A webpage address to the permittee's MS4 program and stormwater website;

The webpage is located at:

https://www.vims.edu/about/leadership_admin/operations/fac_man/stormwater_management/index.php

(3) A description of the public involvement activities implemented by the permittee; *See Table 2*

(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; *See Table 2*

(5) The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities. *There was no collaboration with other MS4 permittees during the report period. Collaboration with Gloucester County and VDOT has occurred in the past.*

Table 2

BMP	Description	Responsible Party	Metric	Strategy	Time Period	Beneficial
2.1	Shoreline Cleanup	VIMS Green Team	Participation	Restoration	Semi-Annually	Yes
2.2	Environmental Advisory Committee	VIMS Green Team	Members	Monitoring	Monthly	Yes
2.3	Campus Waste Cleanup Day	Facilities Management	Participants	Restoration	Bi-Annually	Yes
2.4	Stormwater Reduction Education	News & Media Services	Addresses	Education Events	Semi-Annually	Yes

****Evaluation of the MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary (Part I D.2.e.):**

The current strategies are effective in reaching the maximum public involvement with the MS4 Program. Changes are not needed; however, their effectiveness will be evaluated regularly.

3. Illicit discharge detection and elimination.

e. Annual Report Requirement:

(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;

The MS4 map and information table was updated with the development of the program plan. Due to a robust capital improvement program, the map needs updating. Following the latest capital construction project (New Research Facility), the Civil Engineer of Record will update all applicable systems and their components. This update will be complete by 12/31/2023.

(2) The total number of outfalls screened during the reporting period as part of the dry weather screening program;

Inspections were performed on 100% of the twelve (12) program outfalls. No illicit discharges were identified.

(3) A list of illicit discharges to the MS4 including spills reaching the MS4 with information as follows:

3.(a) through (f) are not applicable as no illicit discharges were identified during annual screenings.

****Evaluation of the MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary (Part I D.2.e.):**

The overall Program is successful as no illicit discharges have been reported. Changes are needed to update the MS4 map and information table.

4. Construction site stormwater runoff control.

d. Annual Report Requirement:

(1) If the permittee implements a construction site stormwater runoff program in accordance with Part I E 4 a (3): *VIMS has accepted the approved Standards and Specifications established by The College of William and Mary*

(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;

The capital construction project, New Research Facility, was designed and is under construction in accordance with the W&M Standards and Specifications.

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

No projects were conducted outside of the W&M Standards and Specifications.

(2) Total number of inspections conducted;

Eighteen (18) inspections were performed supporting the New Research Facility for Aquaculture construction project.

(3) The total number and type of enforcement actions implemented and the type of enforcement actions.

No enforcement actions were implemented. Identified deficiencies were immediately corrected as identified.

****Evaluation of the MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary (Part I D.2.e.):**

The overall Program is successful as no major issues have been reported. Changes are not needed; however, their effectiveness will be evaluated regularly.

5. Post-construction stormwater management for new development and development on prior developed lands.

i. Annual Report Requirement:

(1) If the permittee implements a Virginia Stormwater Management Program in accordance with Part I E 5 a (1) and (2):

(a) The number of privately owned stormwater management facility inspections conducted; *There are no privately owned facilities with in VIMS's MS4 Program.*

(b) The number of enforcement actions initiated by the permittee to ensure long-term maintenance of privately owned stormwater management facilities including the type of enforcement action; *There are no privately owned facilities within VIMS's MS4 Program.*

(2) Total number of inspections conducted on stormwater management facilities owned or operated by the permittee;

VIMS inspected its owned facilities once a year. VIMS performed twelve (12) formal inspections and FM Grounds crews routinely review the system on a regular basis during daily rounds and report any issues as they are identified.

(3) A description of the 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;

VIMS did not have any significant maintenance, repair, or retrofit performed outside of the facilities installed as part of the capital construction project.

(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 from Construction Activities; and

The Virginia Construction Stormwater General Permit database has been updated.

(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.

The program BMP's have been reported to the DEQ BMP Warehouse.

****Evaluation of the MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary (Part I D.2.e.):**

The overall Program is successful as no major issues have been reported. Changes are not needed; however, their effectiveness will be evaluated regularly.

6. Pollution prevention and good housekeeping for facilities owned or operated by the permittee within the MS4 service area.

q. Annual Report Requirement:

- (1) A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period;

No new operational procedures were developed or modified during the report period.

- (2) A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period;

No new SWPPP's were developed during the report period.

- (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;

No SWPPP's were modified during the report period.

- (4) A summary of any new turf and landscape nutrient management plans developed that includes:

(a) Location and the total acreage of each land area; and

(b) The date of the approved nutrient management plan;

No new turf or landscape nutrient plan was developed in the report period. VIMS is updating the existing nutrient plan and is searching for a vendor to perform this task.

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

(a) The date of the training event; *March 1, 2022, next training event will be performed during the FY24 reporting period*

(b) The number of employees who attended the training event; *30*

(c) The objective of the training event.

Review operations impacts on the stormwater system, best practices, and examples of illicit discharges to report with facilities management and marine operations staff.

****Evaluation of the MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary (Part I D.2.e.):**

The overall Program is successful as no major issues have been reported. Changes are needed to the nutrient plan. VIMS is searching for a vendor to perform the update.

Chesapeake Bay Special Condition

For each reporting period, the corresponding annual report shall include the following information:

- 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;

No BMPs were implemented that were not reported to the DEQ BMP Warehouse.

- 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;

No credits were purchased during the reporting period.

- 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; and

In the reporting period FY23, the Institute contracted with the firm VHB to update the TMDL plan. The final report results will be presented in the FY24 report.

- d. A list of BMPs that are planned to be implemented during the next reporting period.

1. (New) Chesapeake Bay Hall Infiltration Basin.

Part II.B.9. For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan.

There are no required local TMDLs associated with VIMSs MS4 program.