



Municipal Separate Storm Sewer System (MS4) Fiscal Year 2021 Annual Report

**General VPDES Permit for
Small Municipal Separate Storm Sewer Systems**

No. VAR040222

George Washington Memorial Parkway

**Fiscal Year 2021 Annual Report
July 1, 2020 – June 30, 2021**

*Submittal to DEQ
September 30, 2021*

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CERTIFICATION

Report: Municipal Separate Storm Sewer System (MS4) Fiscal Year 2021 Annual Report

**Permit No.: General VPDES Permit for Small Municipal Separate Storm Sewer Systems
No. VAR040222**

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.

Name

____September 29, 2021_____

Date

____Superintendent_____

Title



1.0 Introduction

This Fiscal Year 2021 (FY21) MS4 General Permit Annual Report has been prepared by the George Washington Memorial Parkway (GWMP) in accordance with General VPDES (Virginia Pollutant Discharge Elimination System) Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (9VAC25-890-40 et seq.). The Virginia Department of Environmental Quality (DEQ) issued the most recent five-year permit (VAR040111) effective November 1, 2018.

Under the terms of the General Permit, the GWMP has developed a Municipal Separate Storm Sewer System (MS4) Program Plan to implement six minimum control measures (MCMs) aimed at reducing the discharge of pollutants to the “maximum extent practicable.” Minimum control measures are presented below.

Six Minimum Control Measures

1. Public Education and Outreach
2. Public Participation and Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post-Construction Runoff Control
6. Pollution Prevention and Good Housekeeping

The MS4 Program Plan has been updated in accordance with the requirements of Part I C of the 2018 General Permit. The MS4 Program Plan is available on the GWMP web site at <https://www.nps.gov/gwmp/learn/scienceresearch.htm>.

The General Permit requires that the GWMP submit annual reports no later than October 1 covering the preceding July 1 through June 30 reporting period. This annual report covers the period of July 1, 2020, through June 30, 2021. Part I D of the General Permit outlines the requirements for the annual report. The following is a summary of the requirements and where the information is located in this annual report.



Table 1 MS4 Permit Annual Reporting Requirements

Permit	Requirement	Location
Part I D 2 a-b	2. The annual report shall include the following general information: a. The permittee, system name, and permit number; b. The reporting period for which the annual report is being submitted;	Section 2
Part I D 2 c	c. A signed certification as per Part III K;	Certification page
Part I D 2 d	d. Each annual reporting item as specified in an MCM in Part I E; and,	Section 3
Part I D 2 e	e. An evaluation of the MS4 program implementation, including a review of each MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.	Section 4
Part I D 3	3. For permittees receiving initial coverage under this general VPDES permit for the discharge of stormwater, the annual report shall include a status update on each component of the MS4 program plan being developed. Once the MS4 program plan has been updated to include implementation of a specific MCM in Part I E, the permittee shall follow the reporting requirements established in Part I D 2.	Not applicable
Part I D 4	4. For those permittees with requirements established under Part II A, the annual report shall include a status report on the implementation of the Chesapeake Bay TMDL action plan in accordance with Part II A of this permit including any revisions to the plan.	Section 5
Part I D 5	5. For those permittees with requirements established under Part II B, the annual report shall include a status report on the implementation of the local TMDL action plans in accordance with Part II B including any revisions to the plan.	Section 5

2.0 Background Information

This section provides background information as required by Part I D 2 a-b of the General Permit.

Permittee: George Washington Memorial Parkway
System Name: George Washington Memorial Parkway MS4
Permit Number: VAR040111
Reporting Period: July 1, 2020 – June 30, 2021



3.0 Status of Compliance with Fiscal Year 2021 Conditions

This section provides an overview of progress made toward meeting each MCM. Each MCM includes the specific annual reporting items as specified in Part I E of the General Permit followed by a more detailed description of each best management practice (BMP) contained in the MS4 Program Plan. Supporting materials are located in the appendices as referenced.

3.1 Public Education and Outreach (MCM #1)

In accordance with Part I E 1 g of the General Permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program.	<ul style="list-style-type: none">Chesapeake Bay NutrientsPet WastesIllicit Discharges
✓	(2) A list of strategies used to communicate each high priority stormwater issue.	See BMPs 3.1.A-3.1.C.

3.1. A Signage

The MS4 Program Plan establishes the following measurable goals and evaluation criteria:

- BMP Goal: The Park aims to make at least one signage focused on at least one of the high-priority topics identified above available to the public per each year of coverage under this MS4 permit.
- Intended Audience: The public audience is park visitors that utilize park facilities and grounds.
- Metric: The key metric will be the number of signs produced and posted.

BMPs from MS4 Program Plan	FY21 Activities
Temporary or permanent signage in public places or facilities, or storm drain stenciling.	<p>There was no new signage added to the GWMP in FY 2021.</p> <p>Note: NPS tries to minimize signage within National Register Historic District Boundaries as required per National Historic Preservation requirements.</p>



3.1. B Media Materials

The MS4 Program Plan establishes the following measurable goals and evaluation criteria:

- **BMP Goal:** The Park aims to post at least one social media message focused on stormwater and the high-priority issues per quarter (4 messages per year) on either Twitter and/or Facebook.
- **Intended Audience:** The public audience is park visitors that “follow” GWMP on the social media sites of Twitter and Facebook. This audience includes both local and non-local members of the public.
- **Metric:** The metric will be based on the number of “Likes” and/or reposting’s of the park’s media messages.

BMPs from MS4 Program Plan	FY21 Activities
Social media messages	Two social media posts were made during FY 2021The first post about the stormwater management plan was liked 45 times and shared 24 times. The second post regarding illicit discharges was liked 9 times. A full two additional posts will be completed during 2021/2022 to meet this BMP.

3.2 Public Involvement/Participation (MCM #2)

In accordance with Part I E 2 f of the General Permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) A summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded.	No public input on the MS4 program was received during this reporting period.
✓	(2) A webpage address to the permittee’s MS4 program and stormwater website.	The webpage address is https://parkplanning.nps.gov/ms4va See BMP 3.2. A.
✓	(3) A description of the public involvement activities implemented by the permittee.	See BMP 3.2. B.
✓	(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 BMP 3.2. B.



✓	(5) The names of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities.	The GWMP participated in joint training with the Arlington National Cemetery in May 2021. The training was regarding general MS4 responsibilities and housekeeping. Approximately 10 personnel from NPS were in attendance during the training.
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3.2. A Stormwater Webpage

The objective of the stormwater webpage is to ensure that the public has readily available access to all MS4 program documents and reporting mechanisms.

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “The GWMP website on which the park posts MS4 information will be the primary mechanism by which the public can review pertinent stormwater/MS4 program information as well as locate contact information for GWMP employees who will be identified as the point-of-contact(s) for stormwater issues.”

BMPs from MS4 Program Plan	FY21 Activities
Host the stormwater webpage with the required permit information.	<p>The GWMP’s stormwater webpage includes the following information:</p> <ul style="list-style-type: none">▪ Effective MS4 permit and coverage letter▪ Most current MS4 Program Plan▪ Annual report within 30 days of submittal to DEQ▪ List of GWMP staff and phone numbers for the public to contact <p>See Appendix B for a snapshot of the webpage.</p>

3.2. B Public Involvement Opportunities

The objective of this BMP is to increase the public’s awareness and participation in the GWMP’s water quality and pollution prevention efforts.

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “GWMP commits to four activities per year in accordance with the park’s MS4 permit.” The four activities are summarized below:

BMPs from MS4 Program Plan	FY21 Activities
Volunteer Cleanups: Conduct one to two cleanups each permit year and report the number of full trash bags collected.	For trash cleanup, GWMP had 1,344 volunteers contribute 3,801 hours of service. For weed warriors, GWMP had 371 volunteers contribute 1,673 hours.



Public presentation of the visitor interpretation video called “Leave No Trace”: Conduct one to two viewings and report estimated number of visitors who viewed the video.	Due to COVID, the “Leave No Trace” video was not shown at the Great Falls Visitor Center. The video was shown at the GWMP mobile visitor center in September and October 2020, and again in Spring 2021.
Representation of GWMP and Regional personnel on local agency stormwater management panels: Participate in at least two meetings each permit year and report the number of meetings attended.	Due to COVID, the GWMP and Regional personnel were not able to participate on any panels in FY 2021.
Work with park partners to present watershed and stormwater management information to public audiences: Update partner work plans to incorporate information about stormwater management and report the number of people receiving the information.	GWMP partners include the Alice Ferguson Foundation and the Friends of Dyke Marsh. There were no updates to partner plans during the reporting period.



3.3 Illicit Discharge Detection and Elimination (MCM #3)

In accordance with Part I E 3 e of the General Permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(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.	GWMP confirms that the MS4 map and information table have been developed based on best available data for the system and that no changes to the system were implemented in the reporting year. The map is included in the MS4 Program Plan.
✓	(2) The total number of outfalls screened during the reporting period as part of the dry weather screening program.	See BMP 3.3. B.
✓	(3) A list of illicit discharges to the MS4 including spills reaching the MS4 with information as follows: <ul style="list-style-type: none">▪ The source of illicit discharge▪ The dates that the discharge was observed, reported, or both▪ Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method▪ How the investigation was resolved▪ A description of any follow-up activities▪ The date the investigation was closed	See BMP 3.3.C.



3.3. A Procedures and Forms Review

The objective of this BMP is to ensure that written procedures are in place to detect, identify, and address unauthorized non-stormwater discharges and illegal dumping to the storm sewer system. These procedures provide an added level of consistency to effectively prohibit illicit discharges and illegal dumping to the storm sewer system, and to conduct enforcement actions as necessary.

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “Park staff will review pertinent (illicit discharge detection and elimination) IDDE written procedures and forms once to ensure they are comprehensive and reflect any new information based on any previous year’s IDDE investigations.”

BMPs from MS4 Program Plan	FY21 Activities
Review and update (as needed) every two years the IDDE written procedures and “Storm Water Outfall Dry Weather Screening Inspection Form.”	The IDDE written procedures and Stormwater Outfall Dry Weather Screening Inspection form were reviewed. No updates and/or changes were made to the procedures and the form in FY 2021.

3.3. B Dry Weather Outfall Screening

The objective of this BMP is to identify and eliminate illicit discharges as soon as possible to minimize impacts to water quality. The GWMP’s IDDE Procedures are documented in the MS4 Program Plan.

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “Park staff will strive to screen 50 outfalls a year such that no more than 50% are screened in the previous 12-month period”.

BMPs from MS4 Program Plan	FY21 Activities
Perform annual dry weather screening of 50 outfalls.	During FY 2021, 55 outfalls were screened. A copy of the screening forms is located in Appendix C.



3.3.C Illicit Discharge Tracking

The General Permit requires that the GWMP track and process complaints about potential illicit discharges and to coordinate an appropriate response. Potential illicit discharges are identified through public reporting in MCM #1, the dry weather outfall screening program in BMP 3.3.B, and staff reporting in MCM #6.

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “Investigation information will be maintained in an electronic log.” At a minimum the log tracks the data in Table 4.

BMPs from MS4 Program Plan	FY21 Activities
Maintain illicit discharge tracking log.	See Table 1 for a summary of potential and actual illicit discharges with follow up actions as required by the General Permit.



Table 1 Suspected Illicit Discharge Reporting

Date Observed/ Reported	Results/Source	Discharge Discovered By	Follow Up	Resolution	Date Closed
11/9/2020	No known source. Spill reported at Theodore Roosevelt Island	That afternoon, DOEE Emergency Response responded to multiple reports of oil sheen around both sides of Roosevelt Island. Arlington Fire, MPD Harbor Patrol, DC Fire Boat and US Park Police also responded to the scene. Light oil sheen was observed around both sides of the island, by multiple parties. United State Park Police (USPP) conducted an aerial survey by helicopter and observed oil as far upstream as 1/4 mile above Key Bridge in Georgetown.	None	No agency could locate a source of the oil, or a definitive area of discharge from either side of the river. There was no recoverable product. DC Fire Boat suspects the oil sheen came from a vessel discharging the bilge. No further immediate action is necessary.	11/19/2020
4/17/2021	Raw Sewage – Manhole – Colombia Island Marina	Sewage leaked from a manhole Colombia Island Marina directly to the ground. No sewage reached a waterway. GWMP Maintenance staff responded immediately with a pump truck and to initiate to clean up. Approximately 10-20 gallons were spilled on the parking lot.	After the event, the park scheduled to have to line jetted to help further remedy the issue. No issues have been reported since the event.	The root cause was found to be due to heavy usage of the facilities that weekend, and a backup in the sewer line.	4/24/2021



3.4 Construction Site Stormwater Runoff Control (MCM #4)

In accordance with Part I E 4 d of the General Permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) If the permittee implements a construction site stormwater runoff program in accordance with Part I E 4 a (3): <ul style="list-style-type: none">▪ A confirmation 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.▪ 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.	The GWMP is a federal entity that has not developed standards and specifications as described in Part I E 4 a (4) of the permit and thus is not required to provide the annual reporting information specified for this MCM. The GWMP MCM #4 activities are described in the MS4 Program Plan – see BMP 3.4. A.

3.4. A Procedures and Forms Review

The objective of this BMP is to ensure that the GWMP has in place processes and procedures necessary to address discharges from regulated construction site stormwater runoff.

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “Park staff will review stormwater management practices at construction sites affecting more than 2,500 square feet to ensure contractors are meeting contract obligations.”

BMPs from MS4 Program Plan	FY21 Activities
Conduct at least two site visits per permit year at construction sites that disturb 2,500 square feet or more of soil. Identify non-compliance and require the contractor to rectify the issue(s).	No construction sites resulted in 2,500 square feet or greater land disturbance. Therefore, no site visits were required, and no noncompliance issues were identified during the reporting period.



3.5 Post Construction Stormwater Management (MCM #5)

In accordance with Part I E 5 i of the General Permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) If the permittee implements a Virginia Stormwater Management Program in accordance with Part I E 5 a (1) and (2): <ul style="list-style-type: none">▪ The number of privately owned stormwater facility inspections conducted.▪ 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.	The GWMP is a federal entity that has not developed standards and specifications as described in Part I E 5 a (4) of the permit and thus is not required to provide the annual reporting information specified.
✓	(2) The total number of inspections conducted on stormwater management facilities owned or operated by the permittee.	Currently GWMP does not own or operate any stormwater management facilities in the MS4.
✓	(3) A description of the significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned and 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.	NPS operates one BMP in the park, which was constructed in January 2020 (Dyke Marsh Phase I). No maintenance has been performed on this BMP.
✓	(4) A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction 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.	GWMP did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.
	(5) A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with	There were no additional BMPs added to GWMP in FY 2021. Therefore, no report



	Part I E 5 g and the date on which the information was submitted.	was submitted to the DEQ BMP Warehouse.
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3.6 Pollution Prevention/Good Housekeeping for Municipal Operation (MCM #6)

In accordance with Part I E 6 q of the General Permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period.	See BMP 3.6. A.
✓	(2) A summary of any new stormwater pollution prevention plans (SWPPPs) developed in accordance with Part I E 6 c during the reporting period.	No new SWPPPs were developed during the reporting period.
✓	(3) A summary of any SWPPPs modified in accordance with Part I E 6 f or the rationale of any high priority facilities de-listed in accordance with Part 1 E 6 h during the reporting period.	No SWPPP was modified in accordance with Part I E 6 f or delisted during the reporting period.
✓	(4) A summary of any new turf and landscape nutrient management plans developed that includes: <ul style="list-style-type: none"> Location and total acreage of each land area. The date of the approved nutrient management plan. 	GWMP is in the process of updating the current turf and landscape management plan. An updated copy should be available for review and submittal in FY 2022.
✓	(5) A list of training events conducted in accordance with Part I E 6 m, including the following information: <ul style="list-style-type: none"> The date of the training event. The number of employees who attended the training event. The objective of the training event. 	See BMP 3.6. C.



3.6.A Procedures Review

The objective of this BMP is to implement pollution prevention procedures for operation and maintenance activities as required in Part I E 6 a of the General Permit.

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “Park staff will review stormwater good housekeeping and pollution prevention practices and make updates as appropriate.”

BMPs from MS4 Program Plan	FY21 Activities
Review and update (as needed) every two years the written procedures and associated training content for employees.	The procedures were reviewed, and no updates were made.

3.6. B Stormwater Pollution Prevention Plans for High-Risk Facilities

The objective of this BMP is to reduce and prevent the discharge of pollutants from high-priority facilities through SWPPPs and other pollution prevention measures.

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “Two locations are considered high-priority facilities that have the potential to discharge pollutants in accordance with the MS4 permit. Both locations have a written SWPPP in place (GWMP Maintenance Complex and Daingerfield Island).”

BMPs from MS4 Program Plan	FY21 Activities
Implement SWPPPs.	The GWMP continued to implement SWPPPs for the Maintenance Complex and Daingerfield Island. The Annual Inspection at the Maintenance complex occurred in June 2021 and at Daingerfield Island in May 2021. The annual inspections are included in Appendix D.
Review high-priority sites after incidents and update SWPPPs, if necessary.	No incidents occurred at the sites during the reporting period.

3.6.C Training

The purpose of this BMP is to implement a training plan in accordance with Part I E 6 m-o of the General Permit.

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “GWMP will maintain documentation of each training event for a minimum of 3 years, including date, number of attendees, and objective.”

BMPs from MS4 Program Plan	FY21 Activities
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Recognition and reporting of illicit discharges.	Twenty-five GWMP employees took the illicit discharge and good housekeeping training. See Appendix D for presentation.
Pollution prevention and good housekeeping training.	See Appendix D for presentation. Twenty-five GWMP employees took the illicit discharge and good housekeeping training. See Appendix D for presentation.
Virginia Pesticide Control Act, Virginia Erosion and Sediment Control Law, and Virginia Stormwater Management Act.	GWMP has one licensed applicator who applies herbicide along the parkway. GWMP also requires contractors performing these services to be trained as required. A copy of licensure for the GWMP licensed applicator is located in Appendix D.
Spill response	Ten GWMP employees took Hazard Communication training and three GWMP employees took HAZWOPER refresher training. See Appendix D for presentation.

4.0 MS4 Program Plan Assessment

In accordance with the General Permit, the GWMP has evaluated the MS4 Program Plan in FY 2021, including a review of each MCM. The GWMP finds that the BMPs established to implement the MCMs are effective and that no changes are required at this time.

5.0 Special Conditions Associated with TMDLs

The General Permit requires the GWMP to develop action plans to address TMDLs where a wasteload allocation (WLA) has been assigned to the MS4.

The following provides an update on the status of the GWMP's Chesapeake Bay TMDL compliance activities. The Chesapeake Bay TMDL Action Plan was certified on January 2021 after public comment and submitted to the DEQ. Approval of the plan was received on July 13, 2021. Implementation status of that plan will be included in subsequent annual reports.

A Comprehensive Local TMDL Action Plan has been prepared to address bacteria and PCB TMDLs assigned to the GWMP. This document was certified in January 2021 was certified on January 2021 after public comment and submitted to the DEQ. The GWMP is awaiting comment from the DEQ. Implementation status of that plan will be included in subsequent annual reports.

Appendix A: Public Education and Outreach



George Washington Memorial Parkway

Published by Mark Maloy · August 12 at 2:09 PM ·

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A "suspected illicit discharge" is anything going into a drain that is not stormwater. This could include liquids coming from roadway accidents, a broken sewage line, or improper disposal of residential/commercial wastes.

You can help protect our local water quality by reporting a suspected illicit discharge happening near George Washington Memorial Parkway to our Environmental Protection Specialist at gwmp_superintendent@nps.gov. For more information, our friends at Fairfax County have a great page on identifying and reporting illicit discharges: <https://www.fairfaxcounty.gov/.../illicit-discharge-and...>



557
People Reached

15
Engagements

↑ +1.2x Average
Distribution Score

Boost Post





George Washington Memorial Parkway

Published by Mark Maloy · 21h ·

...

Did you know the Potomac River has a drainage area of 14,670 square miles. That means stormwater flowing over this whole area will drain into the Potomac. That's the size of nearly two New Jerseys!

George Washington Memorial Parkway occupies 11.4 square miles of land in Virginia, Maryland, and the District of Columbia, but we know every square mile is important when it comes to protecting stormwater. Learn more about GWMP's stormwater management program plan on our website:

<https://www.nps.gov/gwmp/learn/scienceresearch.htm>



1,292
People Reached

79
Engagements

+4.4x Higher
Distribution Score

[Boost Post](#)

Appendix B: Public Involvement / Participation

PROJECT LINKS

[Project Home](#)[Plan Process](#)[Meeting Notices](#)[Links](#)[Document List](#)[Open For Comment \(0\)](#)

MS4 Virginia

[George Washington Memorial Parkway » MS4 Virginia » Document List](#)

MS4 Program Plan

Virginia Stormwater Management Act, the Virginia Stormwater Management Program (VSMP) Permit regulations, and the Clean Water Act regulate discharges from municipal separate storm sewer systems (MS4) as point source discharges. Publicly owned systems such as storm drains, pipes, ditches or swales collecting or moving water to surface waters must obtain permit coverage and develop a stormwater management program.

MS4 programs must be designed and implemented to control the discharge of pollutants from their storm sewer system to the maximum extent practicable in a manner that protects the water quality in nearby streams, rivers, wetlands and bays.

The General Permit for the Discharge of Stormwater from Small MS4s regulates stormwater discharges from MS4s, such as, Department of Defense facilities. The general permit requires small MS4s develop, implement, and enforce a program that includes the following "minimum control measures:"

- 1) Public Education and Outreach
- 2) Public Involvement and Participation
- 3) Illicit Discharge Detection and Elimination
- 4) Construction Site and Stormwater Runoff Control
- 5) Post-Construction Stormwater Management in New Development and Development on Prior Developed Lands
- 6) Pollution Prevention and Good Housekeeping for Municipal Operations

Please use the contact information below to contact George Washington Memorial Parkway regarding stormwater issues or to report any suspected illicit discharges, improper disposals, spills, or land-disturbing activities within the GWMP area.

Contact Information

Contact: Robert Mocko, GWMP Environmental Specialist.
Phone: (1-703-289-2540) or e-mail (robert_mocko@nps.gov)

Appendix C: Illicit Discharge Detection and Elimination

OBJECTID	CreationDate	Editor	Description	Discharge	Condition	x	y
			<i>On June 24, 2021, GWMP inspected 55 outfalls over a 2-day period. Starting in Old Town Alexandria and going south on the George Washington Memorial Parkway on June 24, 2021, the below are the outfall locations and what was found. It has previously rained on June 16, 2021 (8 dry days in a row before the inspections).</i>				
1	6/24/2021 11:58	rmocko@nps.gov_nps	Outfall by dyke marsh. Dry.	Outfall	Fair	-77.052	38.77758
2	6/24/2021 12:02	rmocko@nps.gov_nps	Outfall. Dumps into stream by MVT. Dry	Outfall	Fair	-77.0516	38.7767
3	6/24/2021 12:16	rmocko@nps.gov_nps	Outfall on southbound lanes. Dry	Outfall	Fair	-77.0526	38.77253
4	6/24/2021 12:20	rmocko@nps.gov_nps	Southbound lanes. Dry, no discharge.	Outfall	Fair	-77.054	38.76704
5	6/24/2021 12:27	rmocko@nps.gov_nps	Outfall across street. Stream. No flow observed, clear water.	Outfall	Fair	-77.0526	38.76381
6	6/24/2021 12:35	rmocko@nps.gov_nps	Half filled with silt. Clearly a stream used to run here. Dry.	Outfall	Fair	-77.0508	38.7627
7	6/24/2021 12:39	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0506	38.76205
8	6/24/2021 12:41	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0503	38.76168
9	6/24/2021 12:58	rmocko@nps.gov_nps	Outfall under road then pipe under MVT. Dry.	Outfall	Fair	-77.0495	38.75563
10	6/24/2021 13:00	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0493	38.75607
11	6/24/2021 13:00	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0492	38.7564
12	6/24/2021 13:01	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0497	38.75428
13	6/24/2021 13:04	rmocko@nps.gov_nps	One huge outfall for morningside drive. No discharge, no odor. Outfall on each side. Couldn't see at high tide. Make sure to come back in future years during low tides or by boat or when there is no vegetation (winter)	Outfall	Fair	-77.0502	38.75258
14	6/24/2021 13:05	rmocko@nps.gov_nps	Outfall near MVT. Dry, no discharge, no odor.	Outfall	Fair	-77.0513	38.79008
15	6/24/2021 13:17	rmocko@nps.gov_nps	Outbound side drains into grassy swale. Dry, no discharge, no odor.	Outfall	Fair	-77.0498	38.7508
16	6/24/2021 13:25	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0486	38.74486
17	6/24/2021 13:32	rmocko@nps.gov_nps	Outfall north bound into grass swale. Dry, no discharge, no odor.	Outfall	Fair	-77.0482	38.74214
18	6/24/2021 13:37	rmocko@nps.gov_nps	this entire section just empties into grass on either side. Dry, no discharge, no odor.	Outfall	Fair	-77.0484	38.73953
19	6/24/2021 13:39	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0489	38.7371
20	6/24/2021 13:43	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0448	38.73261
21	6/24/2021 13:48	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0441	38.73017
22	6/24/2021 13:49	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0442	38.72934
23	6/24/2021 13:57	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0425	38.72779
24	6/24/2021 14:01	rmocko@nps.gov_nps	Probably a big outfall. By boat is easier. Dry, no discharge, no odor.	Outfall	Fair	-77.042	38.72732
25	6/24/2021 14:08	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0423	38.72405
26	6/24/2021 14:23	rmocko@nps.gov_nps	Hard to access. Next year, best to see from river or winter. Dry, no discharge, no odor.	Outfall	Fair	-77.0457	38.71623
27	6/24/2021 14:25	rmocko@nps.gov_nps	Stream through outfall. No odor, no unusual water color.	Outfall	Fair	-77.0463	38.71534
28	6/24/2021 14:28	rmocko@nps.gov_nps	Southbound. Dry, no discharge, no odor.	Outfall	Fair	-77.0482	38.71395
29	6/24/2021 14:31	rmocko@nps.gov_nps	Outfall probably in high veg. No obvious discharge or odor. Come back when less vegetation.	Outfall	Fair	-77.0418	38.72621
30	6/24/2021 14:34	rmocko@nps.gov_nps	Wetland drainage outfall. No odor, no unusual water color.	Outfall	Fair	-77.0531	38.71116
31	6/24/2021 14:36	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0551	38.71062
32	6/24/2021 14:39	rmocko@nps.gov_nps	Outfall under road and then under mvt. Dry, no discharge, no odor.	Outfall	Fair	-77.0568	38.7103
33	6/24/2021 14:40	rmocko@nps.gov_nps	Small stream through this outfall. No odor, no unusual water color.	Outfall	Fair	-77.0581	38.71038
34	6/24/2021 14:44	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0592	38.71011
35	6/24/2021 14:46	rmocko@nps.gov_nps	Stream outfall under road connects multiple drop inlets in and above the intersection. No odor, no unusual water color	Outfall	Fair	-77.0621	38.71031
36	6/24/2021 14:58	rmocko@nps.gov_nps	Only saw south bound. Dry, no discharge, no odor.	Outfall	Fair	-77.0651	38.71026
37	6/24/2021 14:59	rmocko@nps.gov_nps	Stream. No odor, no unusual water color	Outfall	Fair	-77.0663	38.71027
38	6/24/2021 15:09	rmocko@nps.gov_nps	Lots of drop inlets here couldn't find outfall. No discharge in any, no unusual odor, come back when there is less vegetation.	Outfall	Fair	-77.074	38.71291
39	6/24/2021 15:10	rmocko@nps.gov_nps	Dry, no discharge, no odor.	Outfall	Fair	-77.0761	38.71462
40	6/24/2021 15:12	rmocko@nps.gov_nps	Stream under road. No odor, no unusual water color	Outfall	Fair	-77.077	38.71517
41	6/24/2021 15:15	rmocko@nps.gov_nps	Stream marsh. No odor, no unusual water color	Outfall	Fair	-77.0784	38.71611
42	6/24/2021 15:17	rmocko@nps.gov_nps	Creek under road. No odor, no unusual water color	Outfall	Fair	-77.0803	38.71723
43	6/24/2021 15:20	rmocko@nps.gov_nps	Stream underneath. No odor, no unusual water color	Outfall	Fair	-77.0853	38.71475
44	6/24/2021 15:21	rmocko@nps.gov_nps	Stream underneath. No odor, no unusual water color	Outfall	Fair	-77.0853	38.71485
45							
DAY 2							
46	6/25/2021	rmocko@nps.gov_nps	Giant outfall with running stream. First point from TRI parking lot south. No odor, no unusual water color	outfall	fair	-77.0661	38.89452
47	6/25/2021	rmocko@nps.gov_nps	Smaller inlet. No notable discharge or smells. 2nd outfall visible from TRI parking, going south.	outfall	fair	-77.0653	38.89333
48	6/25/2021	rmocko@nps.gov_nps	3rd outfall visible from TRI lot. Murky water in front, but not pooling, no obvious discharge, smell or unusual color.	outfall	fair	-77.0653	38.89269
49	6/25/2021	rmocko@nps.gov_nps	4th since parking lot. Oil-y looking substance (natural for wetland areas) but no flow, no odor.	outfall	fair	-77.0653	38.89236
50	6/25/2021	rmocko@nps.gov_nps	5th from lot. Again. Oily brown-substance (natural, to be expected), but no flow, no odor.	outfall	fair	-77.0652	38.89226
51	6/25/2021	rmocko@nps.gov_nps	Drop inlet on roadway. assumed outfall but no visual ID. Come back when less vegetation.	outfall	fair	-77.0648	38.8908
52	6/25/2021	rmocko@nps.gov_nps	Dry, no discharge, no odor	outfall	fair	-77.0628	38.88946
53	6/25/2021	rmocko@nps.gov_nps	Dry, no discharge, no odor	outfall	fair	-77.0451	38.87349
54	6/25/2021	rmocko@nps.gov_nps	Dry, no discharge, no odor	outfall	fair	-77.0425	38.87154
55	6/25/2021	rmocko@nps.gov_nps	Dry, no discharge, no odor	outfall	fair	-77.0424	38.86393

Appendix D: Pollution Prevention / Good Housekeeping for Municipal Operations

Appendix B. Annual Site Evaluation Form

Photocopy this document and complete to validate that annual inspections are being performed.

This form is used to assess conditions at the GWMP Maintenance Complex that could impact stormwater quality and the effectiveness of the BMPs chosen to be implemented. Evaluations must include: all BMPs identified in this SWP3 to ensure they are functioning correctly; and a visual inspection of areas where materials or activities are exposed to stormwater as identified in the SWP3. Results of visual evaluations conducted during the year must be taken into consideration during the evaluation.

During the review the evaluator should ask:

- | | | |
|---|------------|------------|
| 1. Is the area free of debris or residue that could be washed away by stormwater?
If No, what are those materials and where did they come from? | Yes | No |
| 1. Are all pollution sources identified in the SWP3?
If No, what additional areas should be included in the SWP3? | Yes | No |
| 2. Are the BMPs identified and implemented in the SWP3 sufficient and effective?
If No, why and what changes should be made? | Yes | No |
| 3. Are all BMPs identified and implemented in the SWP3 sufficient to prevent or minimize
polluted stormwater discharge?
If No, what additional BMPs should be identified and implemented? | Yes | No |
| 4. Were past quarterly visual evaluation records reviewed as part of this Annual
Comprehensive Site Compliance Evaluation? | Yes | No |
| 5. If a major leak or spill of hazardous materials occurred in the past three years, was the
area evaluated for the potential for future spills and leaks? | Yes | N/A |

Once the evaluation has been completed, the results should be shared with the entire SWP3 Team, and the SWP3 and training schedule should be updated as necessary.

GWMP Maintenance Complex is in compliance with this SWP3 and with the permit issued by the EPA.

Name: Robert Mocko Date: June 24, 2021

Signature: ROBERT MOCKO

Photocopy this document and complete to validate that routine site inspections are being performed.

Twice yearly routine site inspections are required for all potential pollutant discharge and exposure areas specified in this SWP3. The goal of these inspections is to make sure that the BMPs identified in the SWP3 are being implemented and are effective in minimizing or reducing the threat of pollutant discharge. Deficiencies in the implementation of the SWP3 must be corrected within two weeks. These records must be maintained with the SWP3 and must be kept for at least three years from the date of the inspection.

Instructions: Complete the log below to track the completion of inspections. If any deficiencies are identified please explain on a separate page then document and attach the follow-up procedures.

1. Are the grounds clear of spills and leaks?	Yes	No
2. Are the grounds free of debris such as solid waste, trash and litter? **There was a big site clean-up a couple years ago, removing most of the trash and litter on the island, including the "bone yard" area. Everything has been removed except for two large trailers, which have since been pulled out of the woods. The park is in the process of permanent disposal of these two trailers.	Yes*	No
3. Is the ground below vehicles and equipment free of oil that has leaked from above?	Yes	No
4. Are vehicles and equipment that is stored for extended periods of time drained of fluids, or are absorbent rags or tubs placed below that equipment and regularly maintained?	Yes	No
5. Are all containers of hazardous materials stored inside?	Yes	No
6. Are universal wastes (if applicable) covered and stored in secondary containment?	Yes	No
7. Are dumpsters (if applicable) maintained in a closed position?	Yes	No
8. Are dumpsters and trash barrels (if applicable) present in sufficient quantity to contain all the bags of solid waste?	Yes	No
9. Has any evidence of spills or leakage been reported or cleaned since the last inspection?	Yes	No
10. Since the last inspection, has any SWP3 Team member observed color, odor, floating solids, foam, oil sheen or other indicators of water pollution in stormwater run-off?	Yes	No
11. Have new employees been trained on the SWP3 within 60 days of their start date?	Yes	No
12. Have measures to address erosion been maintained? Do the measures used to address erosion appear effective?	Yes	No

Inspector's Name:	Robert Mocko	Inspection Date:	May 26, 2021
Signature:	ROBERT MOCKO		
Specific areas inspected (including outfalls):	Daingerfield Island		



MARYLAND DEPARTMENT OF AGRICULTURE
PESTICIDE REGULATION SECTION
THE WAYNE A. CAWLEY, JR. BUILDING
50 HARRY S. TRUMAN PARKWAY
ANNAPOLIS, MARYLAND 21401-7080
(410) 841-5710

9990743

PUBLIC AGENCY APPLICATOR CERTIFICATE NO. 27206-95099

MIREYA STIRZAKER

EXPIRES 06/30/2022

NATIONAL PARK SERVICE %TURKEY RUN PARK
700 GEORGE WASHINGTON MEMORIAL PARKWAY
MCLEAN, VA 22101

POST IN A CONSPICUOUS PLACE

APPLICATION CATEGORIES: 2, 8

This certifies that this individual has demonstrated knowledge and competence as a public agency applicator in the category(ies) shown above, under the provisions of the Agricultural Article, Sections 5-201 through 5-211, Annotated Code of Maryland.

A listing of the Pest Control Categories as appears in the Regulations Pertaining To The Pesticide Applicators Law, Code of Maryland Regulations (COMAR) 15.05.01 is provided on the reverse side of this certificate (license or permit).

A handwritten signature in black ink, reading "Joseph Bartenfelder", is positioned above a horizontal line.

Joseph Bartenfelder
Secretary of Agriculture

Under the provisions of the Regulations Pertaining To The Pesticide Applicators Law, Section 15.05.01.08 of COMAR, Maryland has established the following categories of pest control:

1. - Agricultural
 - A - Plant
 - B - Animal
 - C - Grain Treatment
2. - Forest
3. - Ornament or Turf
 - A - Ornamental Plants and Shade Trees - Exterior
 - B - Ornamental Plants - Interior
 - C - Turf and Lawn Pest Control
4. - Seed Treatment
5. - Aquatic
6. - Right of Way and Weed
7. - Industrial, Institutional, Structural, and Health Related Pest Control
 - A - General Pest Control
 - B - Wood Destroying Insects
 - C - Wildlife Control
 - D - Rodent Control
 - E - Fumigation
8. - Public Health
9. - Regulatory
10. - Demonstration and Research
11. - Miscellaneous
 - A - Wood Treatment
 - B - Tributltin (TBT) Antifoulant Paint
 - C - Sewer Root Control
12. - Consultant
13. - Aerial

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

PESTICIDE APPLICATOR
CERTIFICATE

Expires

06/30/2023

GOVT EMPLOYEE
FOR BL# 3350

Certificate
Number

153382-G

MIREYA D STIRZAKER
NATIONAL PARK SERVICE
1622 HARVEST GREEN CT
RESTON, VA 20194



Liza Fleeson Trossbach
Authorized Representative

(Fold Here)

VALID ONLY FOR CATEGORIES LISTED

2	FOREST PEST CONTROL	06/30/2023
8	PUBLIC HEALTH PEST CONTROL	06/30/2023



Sign Here

Pesticide Applicator

Cut and Keep in
Your wallet.

For Questions /Concerns call:
Office of Pesticide Services
(804)786-3798

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

PESTICIDE APPLICATOR CERTIFICATE

Issued

06/21/2021

GOVT EMPLOYEE
FOR BL# 3350

Fee Paid

EXEMPT

Certificate

153382-G

Expires

06/30/2023



Issued in accordance with application duly executed by the person shown below who has agreed to comply with all applicable laws, rules and regulations

MIREYA D STIRZAKER
NATIONAL PARK SERVICE
1622 HARVEST GREEN CT
RESTON, VA 20194



Bradley Copenhaver
Commissioner

Liza Fleeson Trossbach
Authorized Representative

[EXTERNAL] Fwd: Copy of Business License 3350?

Raub, Micah <micah.raub@vdacs.virginia.gov>

Wed 9/30/2020 4:28 PM

To: Stirzaker, Mireya D <Mireya_Stirzaker@nps.gov>

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Mireya,

Our records indicate that you are employed by a government agency. Although government agencies are issued a number, they technically do not have a Pesticide Business License. Government agencies are exempt from the business licensing requirements, however due to the way a our database system is set up we have to create a record as if they do have one and assign a number.

Thank you,

Mr. Micah B. Raub

Program Supervisor, CLRT

Office of Pesticide Services

Virginia Department of Agriculture and Consumer Services

102 Governor Street, Room LL12, Richmond VA 23219

804-786-4845 (office)

804-786-9149 (fax)

----- Forwarded message -----

From: **Stirzaker, Mireya D** <Mireya_Stirzaker@nps.gov>

Date: Wed, Sep 30, 2020 at 2:13 PM

Subject: Copy of Business License 3350?

To: opsclrt.vdacs@vdacs.virginia.gov <opsclrt.vdacs@vdacs.virginia.gov>

Good afternoon -

Would it be possible to get a copy of our Pesticide Applicator business license? It's #3350. There was no one in my position for a few years and I can't find it and am hoping to get a copy for our files 😊

Thanks,
Mireya

Mireya Pasa Stirzaker
Natural Resource Specialist
George Washington Memorial Parkway
office: 703-289-2542
mobile: 571-305-3218
e-mail: Mireya_Stirzaker@nps.gov
<https://www.nps.gov/gwmp>
work week: Tuesday-Friday

