

CITY OF DANVILLE, VIRGINIA



MS4 Permit ANNUAL REPORT

VSMP GENERAL PERMIT REGISTRATION NUMBER
VAR040018

REPORTING PERIOD JULY 1, 2019 – JUNE 30, 2020

MS4 Annual Report

I.D.2.a

- **Permittee/System Name:** City of Danville
- **Permit Number:** VAR040018

I.D.2.b

- **Annual Report Year:** July 1, 2019 – June 30, 2020

I.D.2.e

Evaluation of MS4 program implementation: It appears that the City of Danville is generally in compliance with applicable permit conditions. The City has implemented BMPs for each of the Six Minimum Measures and will continue to review existing BMPs and policies. The City is currently revising its MS4 Program Plan in accordance with corrective actions established by the 2020 MS4 Audit by DEQ. This reporting period posed a challenge for each MCM's BMP to be implemented due to the Covid-19 Pandemic. Restrictions in social gatherings, working from home, state-mandated quarantines, and shifting priorities resulted in a significant decrease in time to meet every measurable goal of the program. Each minimum standard is discussed below.

- MCM#1 (Public Education & Outreach): The City of Danville has implemented all BMPs listed in the Program Plan and met the associated goals.
- MCM#2 (Public Involvement/Participation): The City of Danville has implemented all BMPs listed in the Program Plan and met the associated goals. It appears public involvement has decreased in river cleanups during this reporting period than in years past, with less participating volunteers, likely due to Covid-19 restrictions.
- MCM#3 (Illicit Discharge Detection and Elimination): The City of Danville has implemented all BMPs listed in the Program Plan and met the associated goals. The City has identified 1,341 total stormwater outfalls. The City is currently revising our outfalls to eliminate redundant/unnecessary locations that don't meet the definition of an outfall. This will increase the screening frequency of legitimate outfalls.
- MCM#4 (Construction Site Stormwater Runoff Control): The City of Danville has implemented all BMPs listed in the Program Plan and met the associated goals.
- MCM#5 (Post-Construction Stormwater Management in New Development and Development on Prior Developed Land): The City of Danville has implemented most BMPs listed in the Program Plan and met most associated goals. The City will be working on implementing an enforcement program that meets the frequency requirements of Parts I.E.5.b and I.E.5.c of the MS4 General Permit.
- MCM#6 (Pollution Prevention/Good Housekeeping for Municipal Operations): The City of Danville has implemented most BMPs listed in the Program Plan and met most associated goals. Not every required City department received the required training, but this will be implemented in the next reporting period.

MCM #1: Public Education & Outreach

I.E.1.g

The City of Danville has identified three high priority stormwater issues to meet the goal of educating the public in accordance with the Public Education and Outreach program. For the July 2019 – June 2020 reporting year, the City of Danville has identified and maintained the following three high-priority stormwater issues and the corresponding strategies used to implement them. The City of Danville is currently revising the Program Plan to include specific actions the public may take to minimize the impact of the high priority issues identified in accordance with Part I E.1.c.(3). The Program Plan is also going to be revised to provide the public a contact and telephone number, websites and locations where they may find out more information about public education and outreach efforts in accordance with Part I E.1.c.(4)

Sediment

Land disturbing activities create the most potential for sediment loading of local streams. The City of Danville should have the greatest control over this priority issue through administration of erosion & sediment control practices and stormwater management.

- **“Make Danville Shine”**: The City of Danville has adopted the campaign “Make Danville Shine” during the month of May. This year marked the eighth annual campaign. Typically, Parks & Rec would hold an Expo with home care professionals & City booths where Public Works would provide packages of stormwater management information & free yard waste bags, but due to the Covid-19 Pandemic, the Expo was canceled. However, these packages were still made available for pickup at the Public Works main office. It is estimated that approximately 500 packages were picked up during the month-long event. Public Works also waived yard & household waste fees, reduced curb pickup restrictions, and citizens were encouraged to clean & fix up their homes. Additional information is available at <https://www.danville-va.gov/CivicAlerts.aspx?AID=4328>.
- **Informational Brochures**: Printed material addressing stormwater pollution is available at numerous public locations in Danville. These locations include; although are not limited to, City Hall, Public Works, and the Parks and Recreation Department.
- **City of Danville Website**: A webpage is maintained on the City of Danville’s website containing information on pollution prevention, illicit discharges, stormwater management, water quality, as well as references to the related Ordinances enforced by the City. More information is available at <https://www.danville-va.gov/606/Stormwater-Pollution>.

Nutrients

Sources of nitrogen and phosphorus loading to the Dan River are present on both public and private properties. Agricultural, industrial, commercial, and residential property are potential private sources of nutrients that the City may have little control over; however, may be ultimately responsible for oversight.

- **Stormwater Awareness Month**: September is designated as national stormwater awareness month. For the month of September 2019, the City of Danville posted

information regarding stormwater pollution prevention on the Danville employee homepage.

- City of Danville Website: A webpage is maintained on the City of Danville’s website containing information on pollution prevention, illicit discharges, stormwater management, water quality, as well as references to the related Ordinances enforced by the City. More information is available at <https://www.danville-va.gov/606/Stormwater-Pollution>.
- Storm Drain Markers: The City of Danville collaborated with the Danville After Hours Rotary Club, the Dan River Basin Association, and the Danville Regional Foundation to fund and install storm drain markers within the City. The first marker was installed in October 2015 and installation remains ongoing. Public Works Engineering maintains a box of the storm drain markers and periodically installs markers at known areas of suspected discharge. Overall, more than 400 storm drains have been marked “Do Not Dump, Drains to River” in high traffic areas of the city and the installations have been promoted on social media.

Bacteria

Increases in the biological loading to the Dan River are primarily present in the form of animal defecation and sanitary sewer overflows. Increased levels of bacteria in water reduce the amount of available oxygen and can be detrimental to aquatic ecosystems.

- Enviroscape Models: The Danville Science Center currently maintains Enviroscape models to demonstrate stormwater runoff.
- Informational Brochures: Printed material addressing pet waste management is available at numerous public locations in Danville. These locations include although not limited to, City Hall, Public Works, and the Parks and Recreation Department.
- City of Danville Website: A webpage is maintained on the City of Danville’s website containing information on pet waste and management tips as well as the City Ordinance on non-stormwater discharges. More information is available at <https://www.danville-va.gov/606/Stormwater-Pollution>.
- Pet Waste Stations: Waste stations and signage have been installed at eight (8) high pedestrian traffic areas such as the Riverwalk Trail and high-traffic walking areas to encourage proper disposal of pet waste.

MCM #2: Public Involvement/Participation

I.E.2.f(1)

- The City of Danville Public Works Engineering Department investigated approximately 58 stormwater drainage complaints from the public during the reporting period. The public has many different avenues to contact Public Works including the Public Works switchboard, a direct line to PW Engineering, and the SeeClickFix system online. All drainage complaints are discussed by the Stormwater Drainage Committee and responded to by phone or letter. All public reports submitted through the SeeClickFix system automatically generate a Service Request through the “City Works” app, which notifies the appropriate personnel to respond. All calls to the Public Works switchboard and to PW Engineering are manually entered into the City Works app and dispatched to appropriate personnel to respond. The SeeClickFix system is currently being revised to accept public reports of illicit discharges, improper disposal, spills to the MS4, complaints about land disturbing activities, and stormwater pollution concerns.

I.E.2.f(2)

- A web link to the MS4 Program Plan and Annual Report can be found at:
<http://www.danville-va.gov/886/Municipal-Separate-Storm-Sewer-System>

I.E.2.f(3 & 4)

The City of Danville has performed the following Public Involvement / Participation for the reporting period:

- River Cleanups: The following river cleanups were scheduled and sponsored by Parks and Recreation and the Danville Science Center on the Dan River for this reporting period:

Date	Location	Group	Volunteers	Metric
7/16/19	RT at Dan Daniel Park	Americorps	17	Not Reported
3/21/20	RT at MLK Bridge	Riverview Rotary	32	Not Reported
*RT=Riverwalk Trail			Total:	49
				-

Cleanups along the river are very direct, “boots on the ground” involvement opportunities that provide immediate improvements to water quality by removing trash and debris immediately threatening the quality of the river. The City of Danville will be updating its tracking methods to make sure that a specific number of bags are recorded for each cleanup activity.

- Make Danville Shine: The City of Danville has adopted the campaign “Make Danville Shine” during the month of May. During May, Public Works allows for oversized piles of separated yard waste and household debris to be placed at residential curbsides for collection. The normal fees for appliance disposal will also be waived and up to four tires per residence can be left at the curb for free pickup. During this month, fees and waste

amount restrictions are removed or partially removed, thus informing and incentivizing property owners to properly dispose of waste. Typically, Parks & Rec would hold an Expo with home care professionals & City booths where Public Works would provide stormwater management information & free yard waste bags, but due to the Covid-19 Pandemic, the Expo was canceled.

- Yard/Household Waste Pickup: The City of Danville distributes free recyclable paper yard waste bags to residents via pickup from the Public Works main office. Yard waste is picked up from residents on a weekly basis. Used tires can be picked up along the curb at a cost of \$2 per passenger/light truck tire and \$5 per heavy-duty truck tire. During the 2019 – 2020 reporting period, over 56,000 bags were distributed and approximately 11,681 tons of yard waste picked up and delivered to the Public Works compost site. By having a regular yard waste pickup schedule, free yard waste bags, and cheap tire pickup, residents and businesses are more likely to properly dispose of these items in lieu of improper disposal in drains and waterways.

I.E.2.f(5)

The City of Danville did not collaborate with any other MS4 permittees for public involvement opportunities.

MCM #3: Illicit Discharge Detection & Elimination

I.E.3.e(1)

The MS4 map and information table are updated to reflect any changes within the MS4 serving area. As public & private construction projects are completed, the City completes a storm sewer survey to update our Storm Sewer GIS with as-built data, which includes any new outfalls. Revisions were made to the MS4 map and information table during this reporting period to reflect changes that occurred within the MS4. The MS4 map and information table are currently being completely revised at the suggestion of DEQ to remove unnecessary outfalls that don't meet the criteria of an outfall, and to revise the outfall information required in Part I.E.3.a(2)(c)(g) and (h) of the General Permit.

I.E.3.e(2)

Outfalls Screened During the Reporting Period:

The City of Danville has screened 50 outfalls as part of the dry weather screening program. The MS4 Outfall Data Table confirms that no more than 50% of the outfalls screened were screened in the previous 12 month period.

I.E.3.e(3)

Suspected Illicit Discharges:

There were five documented illicit discharge investigations during the reporting period and eight reported sanitary sewer overflows. All sanitary sewer overflows were addressed and cleaned by Public Works sanitation crews. The illicit discharges were resolved in the following manner:

SR#	Date	Address	Details	Resolution	Follow-up activities	Closed
172983	7/17/19	109 Bridge St.	Anonymous caller reported barrels being dumped into the Dan River next to the MLK Bridge.	Reported site was investigated up and downstream of the bridge, however no barrels were found in the river or on the banks.	N/A – no observable illicit discharge	7/17/19
176366	9/19/19	Riverside Dr. & Church Ave.	Vehicular Accident resulted in an oil spill at the intersection of Riverside Dr. & Church Ave.	Public Works Crew was able to isolate the spill and apply oil-dri to soak up the oil and was later swept up after the oil was absorbed. No oil entered a storm drain system or waterway.	N/A – vehicular accident	2/18/20

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177140	10/4/19	Conway Rd. & Annhurst Dr.	Public Works Refuse Truck spilled approx. 10 gal. of hydraulic fluid from a leak. Some fluid entered the storm sewer system.	Spilled fluid was cleaned up by spreading sand to absorb the fluid. Cones were placed to prevent vehicular traffic over the area and was later swept up & properly disposed of. The fluid that entered the storm sewer system was so miniscule that there was nothing to clean/wipe up.	Hydraulic line on truck was replaced.	2/13/20
180011	12/2/19	150 Lamberth Dr.	A neighbor called in to report that the owner of 150 Lamberth Dr. had a septic tank that was overflowing and running into a creek downstream.	Public Works & Building Inspections visited site. No illicit discharge was observed. There was minor ponding of stormwater in owner's backyard created by wheel ruts that may have appeared to look like sewage to the caller, but it did not produce an odor.	N/A – no observable illicit discharge	2/13/20
180113	12/3/19	South Boston Rd. & Danville Expy.	A milk truck accident caused a milk spill on the highway near the interchange of the Danville Expy. & South Boston Rd. The milk quickly drained through the nearby storm sewer system and into the downstream creek.	Public Works followed the Standard Operating Procedures for Reducing Stormwater, "Incidental Spill Response & Cleanup" protocol. The milk discharge had already drained to the nearby storm drain, which discharged into a nearby stream by the time responders showed up to the scene. Since there was no active flow or continual discharge, storm drain inlets did not have to be blocked and containment materials or absorbents were not necessary. A Water Truck was dispatched to flush the milk residue on the street.	N/A – vehicular accident	12/27/19
184653	3/17/20	405 Ross St.	During a surveying job, a Public Works employee reported that motor oil was observed in a curb inlet, with evidence of oil in the throat of the inlet.	Hazmat was notified on 3/17/20 to inspect inlet & determine if cleanup was necessary. 3/17/21 update: Danville Hazmat was requested to provide information on how this illicit discharge was resolved. A follow-up inspection was also completed on 3/17/21. It was determined that there was no oil substance to clean up in this storm drain inlet and there was no longer evidence of oil at the 3/17/21 inspection.	As of 6/5/20 hazmat has not returned phone calls or emails as to how this illicit discharge was responded to. 3/17/21: An illicit discharge letter was sent to nearby residents stating that illicit discharges like this are prohibited per the Danville City Code.	6/5/20

MCM #4: Construction Site Stormwater Runoff Control

I.E.4.d(1)(a)

All land disturbing projects that occurred during the reporting period from July 1, 2019 – June 30, 2020 have been conducted in accordance with the current Virginia Erosion and Sediment Control Handbook and the Virginia Stormwater Management Handbook.

I.E.4.d(2)

Number of Inspections:

A total of 422 inspections were completed for land disturbing activities during this reporting cycle.

I.E.4.d(3)

Enforcement Actions Taken:

When a violation is encountered during an inspection, the first step is a verbal notification to the permittee. If the verbal notification is not sufficient, a Notice to Comply is issued. If the Notice to Comply is not adequately responded to, a Stop Work Order is issued until the violation is resolved. Stop Work Orders are also used when someone is working without an approved plan.

There were eight total verbal notices given during the reporting period. All notices were either verbally given to the responsible party, or provided via phone call. Two of which were elevated to a written Notice to Comply. All have been resolved.

There were two written Notices to Comply issued during the reporting period. Both have been resolved.

No Stop Work Orders were issued during the reporting period.

MCM #5: Post Construction Stormwater Management

I.E.5.i(1)(a)

There were no inspections performed on privately owned stormwater management facilities during this reporting period. In accordance with a corrective action given from the 2020 MS4 Audit, the City of Danville is working to ensure that all privately owned stormwater management facilities are inspected by their owners. The City will require annual inspection reports from all owners of privately owned stormwater management facilities.

I.E.5.i(1)(b)

There were no enforcement actions initiated during this reporting period.

I.E.5.i(2)

There were nine inspections conducted on stormwater management facilities owned/operated by the City of Danville.

I.E.5.i(3)

There were no significant maintenance activities performed on stormwater management facilities owned/operated by the City of Danville.

I.E.5.i(4)

Five new stormwater management facilities were brought online during this reporting period and submitted to and accepted on the BMP Warehouse. See summary below:

Date Installed	Facility Name	BMP Type	Acres Treated	VAHU6	Lat	Long
12/3/18	Danville Utilities Warehouse	Dry Detention Ponds & Hydrodynamic Structures	3.3	RD39	36.578333	-79.383333
4/1/20	Blue Ridge Fiberboard	Dry Extended Detention Ponds & Hydrodynamic Structures	4.0	RD40	36.542740	-79.354610
5/9/19	Lightning McClean	Dry Detention Ponds & Hydrodynamic Structures	0.9	RD39	36.607670	-79.408340
10/27/17	Hillcrest Baptist Church	Dry Detention Ponds & Hydrodynamic Structures	0.6	RD33	36.604070	-79.510330
5/16/19	*Kyocera Tech Hub	Dry Extended Detention Ponds	6.7	RD39	36.580500	-79.356000

*Kyocera Tech Hub has already been accepted into the BMP Warehouse as uploaded by William Keeling (DEQ) on 10/4/19.

I.E.5.i(5)

All BMPs brought online during this reporting period have been submitted electronically to the BMP Warehouse by October 1, 2020.

MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations

I.E.6.q(1)

Daily & Standard Operational Procedures:

On December 11, 2014, a Standard Operating and Inspections Procedures Manual was made available to City employees. This document provides general guidelines and standard operating procedures for stormwater management facilities. This Manual has not been modified and no additional procedures have been developed during this reporting period. These SOPs will be updated in accordance with a correction action requirement from the 2020 MS4 Audit.

I.E.6.q(2 & 3)

Development & Implementation of a Required SWPPP:

The following facilities currently have VPDES permit coverage from DEQ: Public Works Facility, Utilities Complex, and Danville Regional Airport. Each of these permits require SWPPPs. There have not been any new SWPPPs developed or modified and no facilities have been delisted in accordance with Part I.E.6 of the MS4 General Permit.

I.E.6.q(4)

Development & Implementation of a Turf and Landscape Nutrient Management Plan:

The following locations have Nutrient Management Plans:

Location	Lat/Long	Acres	Ex. Nutrient Management Plan
Dan Daniel Park	36.57662 / -79.37166	13.97*	Yes
Ballou Park	36.57276 / -79.42143	12.15*	Yes
Carrington Pavilion	36.58535 / -79.38363	3.36*	Yes
Anglers Park	36.56045 / -79.35901	11.12	No (Fertilizer not applied)

**This is combined acreage and not necessarily contiguous areas however, each location has at least 1 acre of contiguous area.*

There were no changes to existing Nutrient Management Plans during this reporting period. These NMPs will be updated in accordance with a correction action requirement from the 2020 MS4 Audit.

I.E.6.q(5)

Summary Report on Training:

The following is a summary of the training events to meet the requirements of Part I.E.6 of the MS4 General Permit. Training reports are attached. The objectives of all trainings were

to describe common stormwater pollutants, identify categories covered under the NPDES, and discuss methods of preventing stormwater pollution.

Date	Employees	Training Objective
9/19/19	7	Public Works SWPPP Team Meeting
9/25/19	7	Public Works Stormwater Pollution Prevention Training
9/27/19	29	Public Works Stormwater Pollution Prevention Training
9/30/19	21	Public Works Stormwater Pollution Prevention Training
10/1/19	11	Public Works Stormwater Pollution Prevention Training
10/3/19	8	Public Works Stormwater Pollution Prevention Training
10/22/19	36	Public Works Supervisors Stormwater Pollution Prevention Training
TOTAL:	119	