

MS4 Annual Report

Permit # VAR040135

Stormwater Discharge From Small Municipal Separate Storm Sewer Systems

**Reporting period:
July 1, 2018 thru June 30, 2019**

**Original Submittal:
September 30, 2019**



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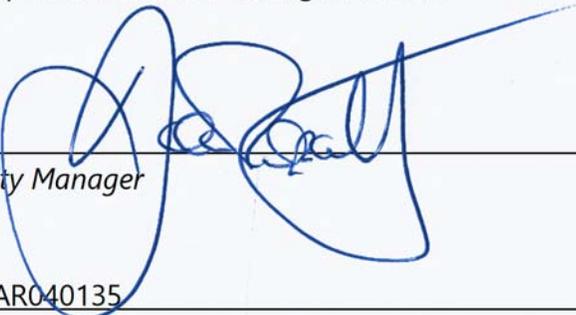
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1.0 BACKGROUND

Permit Condition	Evidence of Compliance
I.D.2.a	Name and permit number: City of Radford, Virginia; VAR040135 Original Permit Date: August 19, 2014
I.D.2.b	Annual report year: July 1, 2018 through June 30, 2019
I.D.2.c	<p>Signed certification:</p> <p>CERTIFICATION</p> <p>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.</p> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="text-align: center;">  <hr style="width: 100%;"/> <p><i>City Manager</i></p> </div> <div style="text-align: right;"> <p>09/30/2019</p> <hr style="width: 100%;"/> <p><i>Date</i></p> </div> </div> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="text-align: center;"> <p>VAR040135</p> <hr style="width: 100%;"/> <p><i>Permit Number</i></p> </div> <div style="text-align: right;"> <p>City of Radford, VA</p> <hr style="width: 100%;"/> <p><i>MS4 Name</i></p> </div> </div>

2.0 MCM 1: PUBLIC EDUCATION & OUTREACH

Permit Condition	Compliance Activities
I.E.1.g.(1)	<p data-bbox="321 342 1458 415"><u>A list of high-priority stormwater issues the permittee addressed in the public education and outreach program.</u></p> <ol style="list-style-type: none"> <li data-bbox="321 457 1458 577"> <p>1. Pet Waste Disposal: This program raises awareness of the need for proper disposal of pet waste to avoid release of bacteria into the stormwater system and, in turn, the New River.</p> <p data-bbox="370 625 1318 661">Target Audience: Pet owners, public park users, and dog park users</p> <li data-bbox="321 709 1458 997"> <p>2. Yard Waste and Leaf Debris: This program educates citizens about proper disposal of yard waste (grass clippings, leaves, etc.) to reduce the amount of such waste discarded into the City’s storm sewer drains. In addition, the City collects yard waste as part of a composting program that develops topsoil for City use. These programs help reduce clogging in the storm sewer network and reduce pollutants (i.e. fertilizers, herbicides, and pesticides) from entering the storm sewer network.</p> <p data-bbox="370 1045 1166 1081">Target Audience: Homeowners, renters, and landscapers</p> <li data-bbox="321 1108 1458 1312"> <p>3. Nutrient Management: The City has produced a “Resident’s Guide for a Cleaner Environment” brochure to be distributed to citizens and to educate them about nutrient management for their own properties. This brochure is coordinated with the City’s internal efforts to develop Nutrient Management Plans for City-owned property.</p> <p data-bbox="370 1360 1166 1396">Target Audience: Homeowners, renters, and landscapers</p>

I.E.1.g.(2)

A list of the strategies used to communicate each high-priority issue.

1. Pet Waste Disposal

- a. Distribution of "Scoop the Poop" brochure
 - i. Hand out with Dog Tags at the Treasurer's Office
 - ii. Post in Local Veterinarian Offices on Bulletin Boards
 - iii. Post in City buildings, including: City Administration, Recreation Center, Library, Courthouse
 - iv. Post on City's Website
 - v. Attend special events and distribute materials

2. Yard Waste and Leaf Debris

- a. Distribution of Educational Materials
 - i. Post in City buildings, including: City Administration, Recreation Center, Library, Courthouse
 - ii. Post on City's website
 - iii. Attend special events and distribute materials

3. Nutrient Management

- a. Distribution of Educational Materials: Resident's Guide for a Cleaner Environment
 - i. Post in City buildings, including: City Administration, Recreation Center, Library, Courthouse
 - ii. Post on City's website
 - iii. Attend special events and distribute materials
- b. Community Garden Nutrient Management Practices: The purpose of this program is to provide Radford Community garden participants with information regarding nutrient management.
 - i. Distribution of Educational Material: Pass out the Nutrient Management Guidelines Brochure when people sign up to participate in the community garden in March.

4. General Stormwater (covering all three high-priority stormwater issues)

- a. Youth Stormwater Education: This program raises awareness about the municipal stormwater system in Radford with Radford's Youth: Elementary School Age through High School Age
 - i. Distribution of Educational Materials: "Only Rain in the Drain" Model, learning pages, and poster at the Library.

	<ul style="list-style-type: none"> ii. Scavenger Hunt to get children and youth out looking for stormwater related items in the City. For completing the scavenger hunt participants received a "Stormwater Trooper" Shirt, Key Chain and Bookmark. b. Public Safety Building Outreach: This program is setup to target all citizen who visit the City Administration/Public Safety building while conducting business. The aim is that by placing educational materials in the lobby, citizens will review the material and become education on how to protect our municipal stormwater system. <ul style="list-style-type: none"> i. Distribution of Educational Material: Placing of the Stormwater "Only Rain in the Drain" Model, poster, and learning pages at the Public safety building in the lobby. c. Community Wide General Information Mailer: The purpose of the mailer will be to promote and publish the general best practices for preventing stormwater pollution to Radford residents. The aim is that by mailing stormwater pollution prevention tips residents will review the information and put the tips into practice. <ul style="list-style-type: none"> i. Distribution of Educational Material: Mailing of the General Best Practices Flyer out with utility bills to Radford residents; approximately 7561 people reached.
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3.0 MCM 2: PUBLIC INVOLVEMENT/PARTICIPATION

Permit Condition	Compliance Activities
I.E.2.f.(1)	<p><u>A summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded.</u> None.</p>
I.E.2.f.(2)	<p><u>A webpage address to the permittee's MS4 program and stormwater website.</u> http://www.radfordva.gov/802/Stormwater-Management-Program</p>
I.E.2.f.(3)	<p><u>A description of the public involvement activities implemented by the permittee.</u></p> <p><u>Restoration</u></p> <p>1. Annual Stream Clean-up Events: The City sponsors, at least once per year, an event that encourages public participation in cleaning up the streams within the City limits. Emphasis is placed on removing foreign debris, litter, etc. The event is publicized through various media in order to have as much participation as possible.</p> <p><u>Educational Events</u></p> <p>2. Native American Heritage Festival in Bisset Park: April 13, 2019. A City-sponsored event, including a Student Day on April 12. City staff had a booth to promote awareness of the City's stormwater initiatives, good land stewardship, and hand out literature and educational materials.</p> <p>3. Radford Highlanders Festival in Bisset Park: October 6, 2018. A City and Radford University sponsored event, city and university staff had a booth to promote and celebrate Radford's Scots-Irish heritage, as well as to promote river awareness, stormwater initiatives and hand out literature and educational materials. Portable "Doggie Spots" were placed through the event to encourage pet owners with their dogs present to clean up after their K-9.</p> <p><u>Disposal or Collection Events</u></p> <p>4. NRV Regional Household Hazardous Waste Collection Day: April 27, 2019. 360 cars came to the event; approximately 165 cars were from Radford.</p> <p><u>Pollution Prevention</u></p> <p>5. Adopt A Spot Program Sign Ups: To encourage citizen participation in litter cleanup of designated areas in their community at regular intervals. Individuals, organizations or businesses may agree to keep a designated area, other than a highway, cleared of litter for a two-year period. In exchange, program participants</p>

	<p>are given materials to help them with the cleanup and a sign bearing their name to be posted in the area. At the end of the two-year period, the program participants will receive a special certificate of appreciation and may renew their agreement.</p> <p>6. Pet Waste Management for Public Parks: The City will continue to raise awareness and enforce current policies requiring pet owners to clean up after their animals while in public parks. City staff will continue to produce and make available the “Scoop the Poop” brochure at public parks.</p> <p>7. Drain Marking Program: The City has implemented a Storm Drain Marking Program. This involved performing an inventory of the storm drain locations and identifying the drains most easily accessible to the public and that may be vulnerable to illicit dumping. These drains were good candidates for permanent marking.</p>
I.E.2.f.(4)	<p><u>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.</u></p> <p><u>Restoration</u></p> <p>1. Annual Stream Clean-up Events</p> <ul style="list-style-type: none"> a. Defined Metric: Number of volunteers / participants to be at least 50 residents. b. Evaluation: On August 31, 2019, Radford hosted a cleanup event known as ‘Fall into the New’ for a portion of Radford’s New River, river bank and the Conley’s Run Stream. Radford had nearly 178 volunteers turned out for our local portion of the Region-wide Clean-up project. Radford’s four teams focused on water and river bank clean-up efforts from Shelter three in Bisset Park to Dudley’s Landing, the Connelly’s Run watershed, the trails in Wildwood Park, as well as the “Riverway” along Sundell Drive. Teams collected over 2,000 pounds of garbage, 18 tires and various pieces of metal and debris during the event. <p><u>Educational Events</u></p> <p>2. Native American Heritage Festival in Bisset Park</p> <ul style="list-style-type: none"> a. Defined Metric: Number of visitors to the Festival to be at least 700. b. Evaluation: On April 13, 2019, approximately 522 persons attended the Festival. <p>3. Radford Highlanders Festival in Bisset Park</p> <ul style="list-style-type: none"> a. Defined Metric: Number of visitors to the Festival to be at least 700.

	<p>b. Evaluation: On October 6, 2018 approximately 5,000 persons attended the Festival.</p> <p><u>Disposal or Collection Events</u></p> <p>4. NRV Regional Household Hazardous Waste Collection Day</p> <p>a. Defined Metric: Number of participants from Radford to be at least 100 cars.</p> <p>b. Evaluation: On April 27, 2019, approximately 165 cars from Radford participated in the Hazardous Waste Collection Day.</p> <p><u>Pollution Prevention</u></p> <p>5. Adopt A Spot Program Sign Ups</p> <p>a. Defined Metric: Of the 50 spots available, all 50 spots to be adopted within the City by June 30, 2020.</p> <p>b. Evaluation: As of June 30, 2019, 20 of the 50 available spots are adopted.</p> <p>6. Pet Waste Management for Public Parks</p> <p>a. Defined Metric: The City continues to produce its "Scoop the Poop" brochure specifically targeting the control of pet waste. The brochure is available at several locations in the City including:</p> <ul style="list-style-type: none"> i. Treasurer's Office: to be handed out when issuing Dog Tags, approximately 650 per year ii. Two Veterinarian Offices within the City: Riverside Veterinary Clinic and West End Animal Clinic, approximately 3,000 visits per year iii. Posted on the City's website for Stormwater / Pollution Prevention, approximately 1,800 visits per year iv. City Manager's Office, 5,000 views per year v. Radford Public Library <p>b. Evaluation: Estimated brochures distributed in reporting year is 10,065.</p> <p>7. Drain Marking Program</p> <p>a. Defined Metric: 100% of curb and grate inlets marked.</p> <p>b. Evaluation: Marking was completed in the previous reporting year.</p>
I.E.2.f.(5)	<p><u>The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities.</u> Radford Highlanders Festival stormwater booth with Radford University.</p>

4.0 MCM 3: ILLICIT DISCHARGE DETECTION AND ELIMINATION

Permit Condition	Compliance Activities
I.E.3.f.(1)	<p><u>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.</u></p> <p>The MS4 map and information table were updated to reflect any changes during the reporting year. The addition and removal of outfalls was reported to DEQ on June 21, 2019.</p>
I.E.3.f.(2)	<p><u>The total number of outfalls screened during the reporting period as part of the dry weather screening program:</u> 50</p>
I.E.3.f.(3)	<p><u>A list of illicit discharges to the MS4 including spills reaching the MS4 with information as follows:</u> None</p> <p>(a) <u>The source of illicit discharge:</u> N/A</p> <p>(b) <u>The dates that the discharge was observed, reported, or both:</u> N/A</p> <p>(c) <u>Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe):</u> N/A</p> <p>(d) <u>How the investigation was resolved:</u> N/A</p> <p>(e) <u>A description of any follow-up activities:</u> N/A</p> <p>(f) <u>The date the investigation was closed.</u> N/A</p>

5.0 MCM 4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Permit Condition	Compliance Activities
I.E.4.d.(1)	<p><u>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.</u></p> <p>Land-disturbing projects within the City were conducted in accordance with the current City of Radford Erosion and Sediment Control Ordinance.</p>
I.E.4.d.(2)	<p><u>Total number of inspections conducted during the reporting year:</u> 164</p>
I.E.4.d.(3)	<p><u>The total number and type of enforcement actions implemented and the type of enforcement actions during the reporting period:</u> None.</p>

6.0 MCM 5: POST CONSTRUCTION STORMWATER MANAGEMENT

Permit Condition	Compliance Activities
I.E.5.i.(1)	<p><u>The number of privately owned stormwater management facility inspections conducted:</u> 2</p> <p><u>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:</u> None</p>
I.E.5.i.(2)	<p><u>Total number of inspections conducted on stormwater management facilities owned or operated by the permittee:</u> 5</p>
I.E.5.i.(3)	<p><u>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.</u> None</p>
I.E.5.i.(4)	<p><u>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.</u></p> <p>The City of Radford renewed 3 existing projects and submitted 1 new project that required coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.</p>
I.E.5.i.(5)	<p><u>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.</u></p> <p>The City of Radford did not have any new BMPs to report using the DEQ BMP Warehouse in accordance with Part I E 5 g and the date on which the information was submitted.</p>

7.0 MCM 6: POLLUTION PREVENTION/GOOD HOUSEKEEPING

Permit Condition	Compliance Activities
I.E.6.q.(1)	<p data-bbox="321 342 1477 415"><u>A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period.</u></p> <p data-bbox="321 457 1437 567">The City previously developed Standard Operating Procedures (SOPs) for the following employee tasks and assignments: (Refer to the MS4 Program Plan for a copy of the SOPs.)</p> <ol data-bbox="402 577 1226 1312" style="list-style-type: none"> 1. Asphalt Program 2. Building Maintenance 3. Detention Pond Maintenance 4. Drainageway Maintenance 5. Vehicle and Equipment Storage 6. Good Housekeeping 7. IDDE: Outfall Screening 8. Inlet, Pipe & Vault Cleaning and Disposal 9. Landscape Chemical Application 10. Disposal and Maintenance of Landscaping/Organic Waste 11. Parking Lot Sweeping and Repair 12. Recycling and Drop Center 13. Right-Of-Way (ROW) Maintenance 14. Salt and Spreader Shed Maintenance 15. Spill Prevention and Control 16. Street Sweeping for Water Quality Protection 17. Vehicle Maintenance 18. Vehicle Washing 19. Utility and Construction Maintenance
I.E.6.q.(2)	<p data-bbox="321 1350 1477 1423"><u>A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period.</u></p> <p data-bbox="321 1465 1177 1501">The City did not develop new SWPPPs during the reporting period.</p> <p data-bbox="321 1543 1258 1579">The following SWPPPs were completed in the previous reporting periods.</p> <ol data-bbox="402 1585 1421 1774" style="list-style-type: none"> 1. Public Works Department: Solid Waste & Recycling Division Drop Center 2. Public Works Department Facility 3. Electric Department 4. Park Road Incinerator Site 5. Ingle's Mountain Equipment Storage Area

I.E.6.q.(3)	<p><u>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.</u></p> <p>The City did not modify any SWPPPs nor delisted any high priority facilities during the reporting period.</p>
I.E.6.q.(4)	<p><u>A summary of any new turf and landscape nutrient management plans developed.</u></p> <p>The City did not develop new turf and landscape nutrient management plans during the reporting period.</p> <p>The City's Nutrient Management Plans were completed June 1, 2016, and are provided in the MS4 Program Plan.</p>
I.E.6.q.(5)	<p><u>A list of the training events conducted in accordance with Part I E 6 m.</u></p> <p>1. Illicit discharge training</p> <ul style="list-style-type: none"> a. Date of the training event: June 26, 2019 b. The number of employees who attended the training event: 133 c. The objective of the training event: To provide information and training regarding general MS4 permit requirements, illicit discharge protection, and standard operating procedures. <p>2. Road, street, and parking lot maintenance standard operating procedures training</p> <ul style="list-style-type: none"> a. Date of the training event: June 26, 2019 b. The number of employees who attended the training event: 133 c. The objective of the training event: To provide information and training regarding general MS4 permit requirements, illicit discharge protection, and standard operating procedures. <p>3. Maintenance, public works, or recreational facilities good housekeeping and pollution prevention practices training</p> <ul style="list-style-type: none"> a. Date of the training event: June 26, 2019

b. The number of employees who attended the training event: 133

c. The objective of the training event: To provide information and training regarding general MS4 permit requirements, illicit discharge protection, and standard operating procedures.

4. Virginia Pesticide Control Act Training and Certification: The City of Radford hires contractors that are trained or certified in accordance with the Virginia Pesticide Control Act.

5. Virginia Erosion and Sediment Control Certification: The City of Radford staff and consultants hold the appropriate certifications to administer the City's Erosion and Sediment Control program. City Staff Jennifer Whites, E&S Inspector expires November 2020.

6. Virginia Stormwater Management Certification: The City of Radford contracts to consultants with the appropriate certifications to provide the required VSMP inspections and plan review certifications. City Staff Jennifer Whites, Stormwater Management Inspector expires October 2020.

7. Emergency spill response training

a. The date of the training event: During shifts for the month of May.

b. The number of employees who attended the training event: 25

c. The objective of the training event: To provide information and training for detection and monitoring, illicit discharge protection, and standard operating procedures.