



City of Salem, Virginia

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040010

Permit Year

July 1, 2019 through June 30, 2020

This annual report is submitted in accordance with 9VAC25-890-40 as part of the requirement for permit coverage to discharge stormwater to surface waters of the Commonwealth of Virginia consistent with the VAR04 General Permit effective date November 1, 2018.

Submitted: September 30, 2020

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ACRONYMS

| | |
|-------|---|
| BMP | Best Management Practices |
| CVC | Clean Valley Council |
| DEQ | Virginia Department of Environmental Quality |
| MCM | Minimum Control Measure |
| MS4 | Municipal Separate Storm Sewer System |
| POC | Pollutants of Concern |
| SWPPP | Stormwater Pollution Prevention Plan |
| TMDL | Total Maximum Daily Load |
| VESCP | Virginia Erosion and Sediment Control Program |
| VSMP | Virginia Stormwater Management Program |
| VPDES | Virginia Pollution Discharge Elimination System |

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

1.1. General Information (Part I.D.2.a)

Permittee Name: City of Salem

Permit Number: VAR040010

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

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

July 1, 2019 through June 30, 2020

1.3. Signed Certification (Part I.D.2.c)

A signed certification as per Part III K:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Printed Name: James E. Taliaferro II

Title: City Manager

Signature:



Date:

10/13/2020

1.4. Reporting for MCMs #1 - #6 (Part I.D.2.d)

Include information for each annual reporting item specified in Part I.E:

Reporting information for each Minimum Control Measure is provided in Section 2.0.

1.5. Evaluation of the MS4 Program Implementation (Part I.D.2.e)

An evaluation of the MS4 program implementation, including a review of each MCM to determine the MS4 program's effectiveness and whether changes to the MS4 Program Plan are necessary:

An evaluation for each Minimum Control Measure is provided in Section 2.0. Changes that are necessary to be made to the MS4 Program Plan are summarized in Table 1.

Table 1: Summary of MS4 Program Plan Changes

MCM 1 and MCM 2: Salem collaborated with the Clean Valley Council (CVC) to satisfy Public Education and Outreach and Involvement activities. The Program Plan will be revised to reflect the change.

2.0 MINIMUM CONTROL MEASURES

2.1. MCM #1: Public Education and Outreach

2.1.1. High Priority Stormwater Issues (Part I.E.1.g(1))

A list of high-priority stormwater issues addressed in the public education and outreach program:

A list of high-priority stormwater issues addressed in public education and outreach program is provided in Table 2.

2.1.2. High Priority Stormwater Issue Communication Strategies (Part I.E. 1.g(2))

A list of strategies used to communicate each high-priority stormwater issue:

A list of strategies used to communicate each high-priority stormwater issue is provided in Table 2. Appendix A includes documentation of the communication efforts described in Table 2.

| Table 2: High Priority Stormwater Issues | | | | |
|--|---|---------------------|---|--|
| # | Stormwater Issue | Strategy | Communication | Completion Status |
| 1 | Public Education on Stormwater Impacts | Speaking Engagement | A World Drowning in Plastic Classroom Program | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2 | Bacteria & Sediment TMDLs | Speaking Engagement | Earth Summit event/festival with hands-on classes, educational games, materials & giveaways | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3 | Prevention of non-stormwater discharges | Signage | Storm Drain Marking | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

2.1.3. MCM #1 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #1 requirements met completed in accordance with the MS4 Program Plan?

☒ Yes ☐ No ()

Are the MS4 Program measurable goals effective?

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

2.2. MCM #2: Public Involvement and Participation

2.2.1. Public Input Summary (Part I.E.2.f(1))

A summary of any public input on the MS4 program received (including stormwater complaints) and responses:

If any MS4 Program inputs or stormwater complaints were received from the public, were responses provided?

☐ Yes () ☐ No () ☒ Not Applicable (No input or complaints)

2.2.2. MS4 Program Webpage (Part I.E.2.f(2))

A webpage address to the MS4 program and stormwater website:

The webpage address is <https://salemva.gov/Departments/Community-Development/Stormwater-Information>

2.2.3. Public Involvement Activities Implemented (Part I.E.2.f(3))

A description of the public involvement activities implemented:

A description of the implemented public involvement activities is provided in Table 3.

2.2.4. Public Involvement Activity Metric and Evaluation (Part I.E.2.f(4))

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality:

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality is provided in Table 3. Appendix B includes documentation of the public involvement activities.

Table 3: Public Involvement Activities Implemented

| Activity Description | Metric | Collaboration & Category | Beneficial |
|--|--|-------------------------------------|--|
| Mill Mountain Zoo Event 9/12/2019 | 265 Participants | CVC/Educational | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Clean Valley Day Stream Cleanup 5/2020 & 6/2020 | 3 Participants, 3 bags/75 lbs. of trash collected | CVC/Restoration | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Fall Waterways Cleanup 10/5/2019 | 140 Participants, 260 bags/3.3 tons trash | CVC/Restoration | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| GoFest Event 10/18/2019 & 10/19/2019 | 35,000 Participants | CVC/Educational | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

2.2.5. MS4 Collaboration (Part I.E.2.f(5))

The name of other MS4 permittees collaborated with in the public involvement opportunities:

If applicable, the name of other MS4 permittees collaborated with for any of the public involvement opportunities are provided in Table 3.

2.2.6. MS4 Program Plan BMP Measurable Goals

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

Table 4: MS4 Program Plan BMP Measurable Goals for MCM #2

| BMP | Measurable Goal | Completeness Status |
|------------|---|--|
| 2.1 | Was documentation of the public input or complaints on the MS4 program and MS4 Program Plan maintained? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (No input/complaints) |
| 2.1 | Is the effective MS4 permit and coverage letter on the webpage? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.1 | Is the most current MS4 Program Plan on the webpage? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.1 | Is the annual report for each year of the term covered by this permit no later than 30 days after submittal to the department on the webpage? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

| | | |
|-----|--|--|
| | | <input type="checkbox"/> Not Applicable (First permit year) |
| 2.1 | Is there a mechanism for the public to report potential illicit discharges, improper disposal or spills to the MS4, complaints regarding land disturbing activities or other potential stormwater pollution concerns on the webpage? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.1 | Is there a method for how the public can provide input of the MS4 Program Plan on the webpage? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.1 | Is there a method for responding to public input? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.1 | Is there a method for maintaining public input received and the city's responses? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

2.2.7. MCM #2 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #2 requirements met in accordance with the MS4 Program Plan?

☒ Yes ☐ No ()

Are the MS4 Program measurable goals effective?

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

2.3. MCM #3: Illicit Discharge Detection and Elimination

2.3.1. MS4 Map and Information Table (Part I.E.3.e(1))

A confirmation statement that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year:

Were the MS4 storm sewer map and outfall information table updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year?

☐ Yes ☒ No (Due to COVID-19, the storm sewer map and outfall information table was not updated.) ☐ Not Applicable (No changes required)

2.3.2. Dry Weather Screening (Part I.E.3.e(2))

The total number of outfalls screened during the reporting period as part of the dry weather screening program:

Were at least 50 outfalls screened during the reporting period? ☐ Yes ☒ No (Due to COVID-19, outfall screenings were not conducted.)

The number of outfalls screened during the reporting yard as part of the dry weather screening program is 0. This represents 0% of the total outfalls.

2.3.3. Illicit Discharges (Part I.E.3.e(3))

A list of illicit discharges to the MS4 including spills reaching the MS4:

Were there any illicit discharges to the MS4 including spills reaching the MS4?

☒ Yes (Refer to Appendix C) ☐ No

2.3.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 5.

| Table 5: MS4 Program Plan BMP Measurable Goals for MCM #3 | | |
|---|---|------------------------------|
| BMP | Measurable Goal | Completeness Status |
| 3.1 | Was a GIS compatible shapefile submitted to DEQ? | Completed |
| 3.1 | Was written notification provided to any downstream adjacent MS4 of any known interconnection established or discovered during the permit reporting year? | <input type="checkbox"/> Yes |

| | | |
|-----|---|---|
| | | <input checked="" type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No |
| 3.2 | Were all reported or observed non-stormwater discharges eliminated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.2 | Were inspections, surveillance, monitoring and enforcement procedures in response to reports implemented? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.3 | Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained of at least 50 outfalls? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

2.3.5. MCM #3 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #3 requirements met in accordance with the MS4 Program Plan?

☐ Yes ☒ No (Due to COVID-19 MCMs 2.3.1 and 2.3.2 were not able to be completed.)

Are the MS4 Program measurable goals effective?

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

2.4. MCM #4: Construction Site Stormwater Runoff Control

2.4.1. Implementation of VESCP and City Ordinance (Part I.E.4.a(1))

The MS4 has adopted a Virginia Erosion and Sediment Control Program (VESCP). The MS4 implements the VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations.

2.4.1.1. Conforming Land Disturbance Projects (Part I.E.4.d(1)(a))

A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations:

Were all land disturbing projects that occurred during the reporting period conducted in accordance with the VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations?

☐ Yes ☒ No (Refer to Table 6)

2.4.1.2. Non-Conforming Land Disturbance Projects (Part I.E.4.d(1)(b))

If one or more of the land disturbing projects were not conducted with the VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations, an explanation as to why the projects did not conform:

If “No” is checked above, an explanation as to why a project did not conform to the VESCP laws and regulations and City ordinance is provided in Table 6.

Table 6: Project(s) Not in Conformance with VESCP

Project Name 1: Mowles Spring Park

Explanation: Lapse in permit coverage. CGP Permit coverage obtained and plan modifications are currently being developed.

2.4.2. Site Stormwater Runoff Inspections (Part I.E.4.d(2))

Total number of inspections conducted:

The total number of site stormwater runoff inspections conducted for regulated land disturbance activities is 375.

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

The total number and type of enforcement actions implemented:

The total number of enforcement actions implemented is 127.

The total number of Notices of Violation issued is 76.

The total number of Stop Work Orders issued is 7.

2.4.4. MCM #4 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #4 requirements met in accordance with the MS4 Program Plan?

☐ Yes ☒ No (Mowles Spring project has CGP Permit coverage and plan modifications are currently being developed.)

Are the MS4 Program measurable goals effective?

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

2.5. MCM #5: Post-Construction Stormwater Management

2.5.1. Implementation of VSMP and City Ordinance (Part I.E.5.i (1))

The MS4 has approved Virginia Stormwater Management Program (VSMP) and implements the VSMP consistent with the Virginia Stormwater Management Act and VSMP Regulations as well as has developed an inspection and maintenance program in accordance with Parts I.E.5.b and c.

2.5.1.1. Privately-Owned VSMP Inspections (Part I.E.5.i (1)(a))

The number of privately-owned stormwater management facility inspections conducted:

The number of privately-owned stormwater management facility inspections conducted is 0.

2.5.1.2. Privately-Owned VSMP Enforcement Actions (Part I.E.5.i (1)(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:

The number of enforcement actions initiated by the MS4 to ensure long-term maintenance of privately-owned stormwater management facilities is 0.

The type of enforcement actions issued are N/A.

2.5.2. Stormwater Management Facility Inspections (Part I.E.5.i(2))

Total number of inspections conducted on stormwater management facilities owned or operated by the permittee:

Were inspections conducted on stormwater management facilities during the reporting year? ☒ Yes ☐ No

The total number of inspections conducted on stormwater management facilities, owned or operated by the MS4 is 15.

2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.i(3))

A description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection:

Were significant maintenance, repair, or retrofit activities performed on any stormwater management facilities during the reporting year?

☐ Yes ☐ No ☒ Not Applicable (No significant maintenance required)

A description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the MS4 to ensure it continues to perform as designed is provided in Table 7.

| Table 7: Maintenance Activities Performed on Stormwater Management Facilities | |
|---|----------------------------------|
| Stormwater Management Facility | Significant Maintenance Activity |
| NA | NA |

2.5.4. Virginia Construction Stormwater General Permit Database (Part I.E.5.i(4))

A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 f or a statement that the Permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater form Construction Activities:

Stormwater management facility information for stormwater facilities installed after July 1, 2014 was submitted through the Virginia Construction Stormwater General Permit database for land disturbing activities requiring a General VPDES Permit for Discharges of Stormwater from Construction Activities?

☒ Yes ☐ No ☐ Not Applicable

2.5.5. DEQ BMP Warehouse (Part I.E.5.i(5))

A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part I E 5 g and the date on which the information was submitted:

No later than October 1 of each year, stormwater management facilities and BMPs implemented to meet a TMDL load reduction between July 1 and June 30 of each year were electronically reported using the DEQ BMP Warehouse for any practices not reported in accordance with Part I.E.5.f (requirement 2.5.4) including stormwater management facilities from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required?

☐ Yes, Date Submitted: ☐ No ☒ Not Applicable (No SWM facilities constructed or BMPs implemented that meet the criteria.)

2.5.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 8.

| Table 8: MS4 Program Plan BMP Measurable Goals for MCM #5 | | |
|---|---|--|
| BMP | Measurable Goal | Completeness Status |
| 5.1 | Was the inspection and maintenance program on post-construction stormwater management facilities implemented? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.1 | Did all regulated land disturbance activities have a City approved SWM plan? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 5.1 | Were all stormwater management facilities recorded with inspection and maintenance plans and/or agreements, where applicable? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.2 | Was the stormwater management facility tracking database updated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No |

2.5.7. MCM #5 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #5 requirements met in accordance with the MS4 Program Plan?

☐ Yes ☒ No (Mowles Spring project has CGP Permit coverage and plan modifications are currently being developed.)

Are the MS4 Program measurable goals effective?

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

2.6. MCM #6: Pollution Prevention and Good Housekeeping

2.6.1. Operational Procedures (Part I.E.6.q(1))

A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period:

Were any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period?

☐ Yes (Refer to Table 9) ☐ No ☒ Not Applicable (Not necessary)

Table 9: Good Housekeeping Operational Procedures Developed or Modified

NA

2.6.2. Newly Developed SWPPPs (Part I.E.6.q(2))

A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period:

Were any new SWPPPs developed in accordance Part I E 6 c during the reporting period?

☐ Yes (Refer to Table 10) ☐ No ☒ Not Applicable (No new high priority facilities)

Table 10: New SWPPPs Developed

| SWPPP Name | SWPPP Address |
|------------|---------------|
| NA | NA |

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

A summary of any new SWPPPs modified in accordance with Part I E 6 f or the rationale of any high priority facilities delisted in accordance with Part I E 6 h during the reporting period:

Were any new SWPPPs modified after an unauthorized discharge, release or spill reported?

☐ Yes (Refer to Table 11) ☐ No ☒ Not Applicable (Not necessary)

Were any high priority facilities delisted in accordance with Part I E 6 h during the reporting period? ☐ Yes (Refer to Table 11) ☐ No ☒ Not Applicable (No delisted high priority facilities)

If yes, rationale is provided for any high priority facilities delisted in accordance with Part I E 6 h during the reporting period in Table 11.

| Table 11: SWPPPs Modified or Delisted | |
|---------------------------------------|-------------------------|
| SWPPPs Modified/Delisted | Rationale for Delisting |
| NA | NA |

2.6.4. Newly Developed Nutrient Management Plans (Part I.E.6.q(4))

A summary of new turf and landscape nutrient management plans developed:

Were any new turf and landscape nutrient management plans developed?

☒ Yes (Refer to Table 12. Updated previously established nutrient management plans.)

☐ No () ☐ Not Applicable (Not required this permit year)

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

The location and the total acreage of each land area:

If “Yes” is checked above, the location and total acreage of the land area for any newly developed nutrient management plan is provided in Table 12.

2.6.4.2. Nutrient Management Plan Approval Date (Part I.E.6.q(4)(b))

The date of the approved nutrient management plan:

If “Yes” is checked above, the approval date of any newly developed nutrient management plan is provided in Table 12.

| Table 12: New Turf and Landscape Nutrient Management Plans | | |
|--|----------------|---------------|
| Location | Total Acreages | Date Approved |
| City of Salem Schools | 38.13 | 7/8/2019 |
| City of Salem Part 1 - Parks | 27.31 | 7/6/2019 |
| Salem Municipal | 4.82 | 11/1/2019 |

2.6.5. Training Events (Part I.E.6.q(5))

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

Was training conducted?

☒ Yes ☐ No () ☐ Not Applicable (Not required this permit year.)

If yes is checked above, a list of training events conducted in accordance with Part I.E.6.m is provided in Table 13.

2.6.5.1. Training Dates (Part I.E.6.q(5)(a))

The date of the training event:

If yes is checked above, the date of the training event is provided in Table 13.

2.6.5.2. Quantity Trained (Part I.E.6.q(5)(b))

The number of employees who attended the training event:

If yes is checked above, the number of employees who attended the training event is provided in Table 13.

2.6.5.3. Training Objective (Part I.E.6.q(5)(c))

The objective of the training event:

If yes is checked above, the objective of the training event is provided in Table 13.

| Table 13: Training Events | | |
|---------------------------|----------------|--|
| Date | # of Attendees | Training Objective |
| 1/24/2020 | 1 | Fertilizer Applicator Certification Training |
| 8/27/19 | 36 | MS4/Stormwater Training |

2.6.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 14.

| Table 14: MS4 Program Plan BMP Measurable Goals for MCM #6 | | |
|--|---|---|
| BMP | Measurable Goal | Completeness Status |
| 6.1 | Was good housekeeping and pollution prevention biennial training conducted this reporting year? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No |
| 6.2 | Was the annual comprehensive compliance evaluations conducted? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.2 | Were the SWPPPs reviewed within 30 days after an unauthorized discharge, release or spill reported? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No |
| 6.2 | Were the SWPPPs updated within 90 days after an unauthorized discharge? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No |
| 6.2 | Were the MS4's properties reviewed this reporting year to determine if the properties meet the criteria of a high priority facility? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.3 | Were the nutrient management plans implemented through completion of application records? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.5 | Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input type="checkbox"/> No |
| 6.5 | Did training occur and were proof of certifications maintained on file for employees performing pesticide and herbicide applications? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input type="checkbox"/> No |
| 6.6 | Were all signed contracts executed with contract good housekeeping and pollution prevention language? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

2.6.7. MCM #6 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #6 requirements met in accordance with the MS4 Program Plan?

☒ Yes ☐ No ()

Are the MS4 Program measurable goals effective?

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

3.0 TMDL SPECIAL CONDITIONS

3.1. Roanoke (Staunton) River Watershed PCB TMDL Action Plan

3.1.1. PCB TMDL Implementation (Part II.B.9)

A summary of actions conducted to implement each local TMDL action plan:

| Table 15: PCB TMDL Action Plan Summary of Actions | | |
|---|--|--|
| BMP | Measurable Goals | Completeness Status |
| 1 | When applicable, enforcement of City Codes regarding illicit discharges, disposal and storage of PCB sources. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2 | Identified City-owned buildings where electrical equipment and appliances were installed prior to 1979. Inspections, as determined appropriate, will be scheduled. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3 | Will develop maintenance, mitigation and/or disposal plan, as applicable, as a result of findings from PCB-BMP-2. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (No identified sources) |
| 4 | Continued implementation of SPCC Plans. Review and update by 2018, including for PCB-specific concerns. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Pending) |
| 5 | Reassess electric department properties for PCBs as part of SPCC update per Action Plan schedule. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6 | City's Good Housekeeping Manual updated to include a section for PCBs (Section 5.20) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 7 | SPCC Plans are provided on the City's Website. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 8 | City's Good Housekeeping Manual updated to include a section for PCBs (Section 5.20) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 9 | PCB information in the Good Housekeeping Manual was provided during 2018 training. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 10 | The City's Public Education & Outreach Plan was updated to include PCB information in material distributed to the public. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 11 | The City has updated outreach material for distribution to the public during the 2017-2018 reporting year. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Were all requirements met in accordance with the Roanoke (Staunton) River Watershed PCB TMDL Action Plan?

☐ Yes ☒ No (Measurable Goal 4 is still pending.)

Are the MS4 Program measurable goals effective?

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

3.1. Upper Roanoke River Watershed E.coli TMDL Action Plan

3.1.1. Bacteria TMDL Implementation (Part II.B.9)

A summary of actions conducted to implement each local TMDL action plan:

| Table 16: Bacteria TMDL Action Plan Summary of Actions | | |
|--|---|---|
| BMP | Measurable Goals | Completeness Status |
| 1 | (1) Prohibition of pets on City properties; (2) Maintenance of the Salem Rotary Dog Park; (3) Educational outreach to registered dog owners . | Ongoing |
| 2 | Continued rehabilitation and repair of the sanitary sewer system in accordance with I&I Corrective Action Plan described in Section 4.2.2 of the Action Plan | Ongoing |
| 3 | Cross reference Roanoke Health Department records with utility data to confirm the number and location of properties that are not connected to the sanitary sewer system. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (Removed BMP in May 2020 revision) |
| 4 | (1) Continued annual outfall screening and mapping (as new outfalls are identified); (2) Continued elimination of illicit discharges, as identified; (3) Recognition of straight pipe concerns in staff | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5 | Conduct a review of approach to pet waste as an E. coli source that includes a review of the code and considers additional pet waste stations. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (Removed BMP in May 2020 revision) |
| 6 | Inclusion of educational information into: (1) Public Education and Outreach Plan and (2) Employee training | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Were all requirements met in accordance with the Upper Roanoke River Watershed E.coli TMDL Action Plan?

☒ Yes ☐ No ()

Are the MS4 Program measurable goals effective?

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

3.2. Upper Roanoke River Watershed Sediment TMDL Action Plan

3.2.1. Sediment TMDL Implementation (Part II.B.9)

A summary of actions conducted to implement each local TMDL action plan:

| Table 17: Sediment TMDL Action Plan Summary of Actions | | |
|--|---|---------------------|
| BMP | Measurable Goal | Completeness Status |
| 1 | Supporting materials for tracking documentation | Completed |
| 2 | Utilize supporting materials for training sweeper operators for collection of sweeping operations data. | Completed |
| 3 | Conduct street sweeping material sampling and conduct laboratory analysis. Analysis includes particle size distribution, moisture content, total nitrogen and total phosphorus. | Completed |
| 4 | Written report building on field collected data from Steps 1 and 3 develop to assist estimating pollutant reductions and target areas for sweeping to maximize POC reduction | Completed |
| 5 | Assess effectiveness and appropriateness of the City's sweepers. The assessment will be utilized in the consideration of future sweeper purchases. | Completed |
| 6 | Implementation of the identified target areas resulting from Step 4. | Ongoing |
| 7 | Continue current sweeping efforts with regenerative/vacuum sweeper per the Implementation Plan described in Section 4.2 of the Action Plan. | Completed |

A summary of quantifiable pollutant of concern reductions is provided in Table 18.

| Table 18: POC Reductions | |
|--|-------------|
| BMP #10: Street Sweeping Using the Mass Loading Approach | |
| Goal (tons of material swept): | 793.55 Tons |
| Progress toward Goal (tons of material swept): | 511.35 Tons |

3.2.2. Sediment TMDL Evaluation (Part I.D.2.e)

Review the TMDL Special Condition to determine the Local TMDL Action Plan's effectiveness and whether or not changes to the Local TMDL Action Plan are necessary:

Were all requirements met in accordance with the Upper Roanoke River Watershed Sediment TMDL Action Plan?

☐ Yes ☒ No (Full street sweeping target was not achieved. However, progress was demonstrated. Please see updated TMDL Action Plan.)

Are the MS4 Program measurable goals effective?

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

Appendix A: Documentation of Public Education and Outreach Activities



Annual Report for Stormwater Programs

Salem
FY 2019-2020

Reporting Quarter

X Quarter 1
X Quarter 2
X Quarter 3
X Quarter 4

MCM 1: BMP# 1.4 Stormwater Educational Programs

| Date | Municipality | School | Type of Event | Program Name | Issue Addressed | # Programs | # Children | # Adults | Total Reached | Staff Present |
|-----------|--------------|------------------|-------------------|-----------------------------|-----------------|------------|------------|----------|---------------|---------------|
| 2/28/2020 | Salem | Andrew Lewis MS | Classroom Program | A World Drowning in Plastic | SW/Litter | 4 | 100 | 2 | 102 | Jim |
| 11/8/2019 | ALL | ALL High Schools | Event/Festival | Earth Summit | All | 4 | 37 | 26 | 63 | All |
| SALEM | | | | | | 8 | 137 | 28 | 165 | |

Spring classes cancelled due to COVID-19



Annual Report for Stormwater Programs

Salem

Reporting Quarter

Quarter 1
Quarter 2
Quarter 3
Quarter 4

MCM 1: BMP #1.5 Stormwater Educational Programs and Publications for Adult & General Audience

| | Date | Location | School or Outreach Group | Program | Issued Addressed | Total Students | Total Adults | Total Attendance |
|----------------------------|------------|----------|----------------------------------|------------|---|----------------|--------------|------------------|
| 1 | 7/13/2019 | ALL | Neighborhood State Conference | Conference | Excess bacteria, sediment and nutrients | 17 | 200 | 217 |
| 2 | 7/14/2019 | ALL | Neighborhood State Conference | Conference | Excess bacteria, sediment and nutrients | 18 | 200 | 217 |
| 3 | 10/5/2019 | ALL | SCSS - Star Hill FWC After Party | Event | Excess bacteria, sediment and nutrients | 0 | 15 | 15 |
| 4 | 10/24/2019 | ALL | Starr Hill "Decorate your Love" | Event | Excess bacteria, sediment and nutrients | 0 | 125 | 125 |
| 5 | 10/28/2019 | ALL | Star Hill Movie Night | Event | Excess bacteria, sediment and nutrients | 0 | 50 | 50 |
| 6 | 11/8/2019 | ALL | Earth Summit | Conference | Excess bacteria, sediment and nutrients | 37 | 26 | 63 |
| 7 | 11/2/2019 | ALL | SCSS - Nature Walk @ Mill Mtn | Event | Excess bacteria, sediment and nutrients | 0 | 12 | 12 |
| 8 | 1/30/2020 | ALL | SCSS - Nature Art | Event | Excess bacteria, sediment and nutrients | 0 | 12 | 12 |
| 9 | 2/4/2020 | ALL | Deschutes Community Pint Night | Event | Excess bacteria, sediment and nutrients | 0 | 80 | 80 |
| 10 | 2/11/2020 | ALL | Deschutes Community Pint Night | Event | Excess bacteria, sediment and nutrients | 5 | 50 | 55 |
| 11 | 2/18/2020 | ALL | Deschutes Community Pint Night | Event | Excess bacteria, sediment and nutrients | 0 | 40 | 40 |
| 12 | 2/25/2020 | ALL | Deschutes Community Pint Night | Event | Excess bacteria, sediment and nutrients | 0 | 65 | 65 |
| 13 | 2/27/2020 | ALL | SCSS - Health & the Environment | Event | Excess bacteria, sediment and nutrients | 0 | 10 | 10 |
| 14 | 4/16/2020 | ALL | Virtual Earth Day | Event | Excess bacteria, sediment and nutrients | 500 | 8500 | 9000 |
| City of Salem Total | | | | | | 577 | 9,385 | 9,962 |



Annual Report for Stormwater Programs

Salem
FY 2019-2020

X Quarter 1
X Quarter 2
X Quarter 3
X Quarter 4

MCM 2: BMP #2.1 Storm Drain Stenciling Program

| | <i>Date</i> | <i>Location</i> | <i>Area</i> | <i>Marked</i> | <i>Volunteers</i> |
|----|-------------|------------------------------------|--------------------------|--------------------------------|--------------------------------------|
| 1 | 6/1/2020 | 14 W Main St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 2 | 6/1/2020 | 14 W Main St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 3 | 6/1/2020 | 17 Clay St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 4 | 6/1/2020 | 17-1 Clay St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 5 | 6/1/2020 | 19 Clay St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 6 | 6/1/2020 | 26 Clay St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 7 | 6/1/2020 | 27 Clay St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 8 | 6/1/2020 | Market & Clay St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 9 | 6/1/2020 | Market & Clay St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 10 | 6/1/2020 | Market & Clay St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 11 | 6/1/2020 | Market & Clay St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 12 | 6/1/2020 | 100-198 Market Pl, Salem, VA 24153 | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 13 | 6/1/2020 | 114 N Broad St, Salem, VA 24153 | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 14 | 6/1/2020 | 114 N Broad St, Salem, VA 24153 | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 15 | 6/1/2020 | Collage Alley and N Broad | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 16 | 6/1/2020 | Collage Alley & Red Ln | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 17 | 6/1/2020 | 103 N Broad St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 18 | 6/1/2020 | 103 N Broad St | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 19 | 6/1/2020 | North Broad & Clay intersction | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 20 | 6/1/2020 | North Broad & Clay intersction | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |
| 21 | 6/1/2020 | North Broad & Clay intersction | on pavement beside Drain | Fish- Only Rain Down the Drain | Nikki Holm,Jom Hosch, Sydney McTigue |

TOTAL - Salem

21

Appendix B: Documentation of Public Involvement Activities

Annual Report for Stormwater Programs

Salem

FY 2019-2020

Reporting Quarter

X Quarter 1

X Quarter 2

X Quarter 3

☒ Quarter 4

BMP 2.2 Public Involvement and Participation - Community Wide Public Events

| | Event Name | Event Date | Event Goal or Purpose | Category | High-priority Stormwater Issue to be Addressed | Brief description of event and planned activity | Metric | Salem | ALL |
|---|--|----------------------------------|--|------------------|--|--|---|-------|-------|
| | | | | (per MS4 Permit) | | | | | |
| 1 | Daisy Fest | 7-Oct-19 | Public Education & Outreach | Educational | Sediment, Bacteria, and Nutrients | A valley-wide event geared towards Girl Scouts engaging in environmental education activities | 350 participants | 350 | 350 |
| 2 | Panda Event | 12-Sep-19 | Public Education & Outreach | Educational | Sediment, Bacteria, and Nutrients | A valley-wide event held at the Mill Mountain Zoo with outdoor activities and environmental education. | 265 participants | 265 | 265 |
| 3 | Fall Waterways Cleanup | 5-Oct-19 | Public Participation | Restoration | Sediment, Bacteria, and Nutrients | A valley-wide volunteer effort to remove trash from area streams, creeks, rivers, and their vicinities | Total Event: 640 participants, 2240 bags/28 tons of trash collected Salem Only: 140 participants, 260 bags/3.3 tons of trash collected | 140 | 640 |
| 4 | GoFest | October 18-19, 2019 | Public Education & Outreach | Educational | Sediment, Bacteria, and Nutrients | A valley-wide family event geared towards outdoor activities and environmental education Stream Schools, SW Educational Games, Materials & Giveaways | 35,000 participants | 35000 | 35000 |
| 5 | Zoo Boo | 26-Oct-19 | Public Education & Outreach | Educational | Sediment, Bacteria, and Nutrients | A valley-wide event held at the Mill Mountain Zoo with outdoor activities and environmental education. | 915 participants | 915 | 915 |
| 6 | Earth Summit | 8-Nov-19 | Education & Outreach; Public Participation | Educational | Sediment, Bacteria, and Nutrients | A one day event for high school and college students to explore environmental careers during the day with an evening Community Event. Urban Agriculture was the theme with hands-on classes, SW Educational Games, Materials & Giveaways | 63 participants | 63 | 63 |
| 7 | Clean Valley Day | May - June 2020 | Public Participation | Restoration | Sediment, Bacteria, and Nutrients | Stream and watershed clean-up | Total Event: 54 participants, 775 bags/4 tons of trash collected Salem Only: 3 participants, 3 bags/75lbs of trash collected LOW turnout due to COVID-19 stay at home orders | 3 | 54 |
| 8 | Roanoke Riverfest | Cancelled due to Covid-19 | Public Participation | Educational | Sediment, Bacteria, and Nutrients | A valley-wide event held on the Roanoke River - Recycled Regatta Boat Race, The Great Duck Race, SW Outreach Materials, Photo Contest, SW Educational Games, Materials/Giveaways | 0 participants | 0 | 0 |
| 9 | Anytime Cleanup | July 2019 - June 2020 | Public Participation | Restoration | Sediment, Bacteria, and Nutrients | Groups sign up to do a cleanup on the streets of their choice anytime throughout the year. CVC provides grabbers, bags, gloves, hand sanitizer and SW Outreach materials | Total Event: 21 participants, 23 bags/575lbs of trash collected | 0 | 21 |
| | Total Public Involvement Events | | | | | | 37308 | 36736 | 37308 |

Appendix C: List of Illicit Discharges

| IDDE Tracker | | | | | | | | | |
|---------------------|-----------|---|--|---------------|-----------|---|----------|---------------------------------------|-------------|
| Associated Project? | Findings | | | | Follow-up | | | Additional Notes, Contact Info, etc. | Date Closed |
| | Date | Location | Complaint/Issue | Reported by: | Date | Action | Resolved | | |
| No | 8/13/2019 | Szechuan Restaurant (outfall ID 277-03) | Cooking oil spill/overflow | Fire Marshall | 8/13/2019 | Cleaned up by WEL, Inc. same day | Yes | Previous violation on 6/1/2017 | 8/13/2019 |
| No | 9/10/2019 | Walmart | Hazmat from trash compactor leak | Fire Marshall | 9/11/2019 | Retention Pond Services, Inc. / Hepaco cleaned up, contained & disposed of next day, documentation provided | Yes | | 9/16/2019 |
| No | 1/22/2020 | Hibachi Express | Leakage from dumpster | Fire Marshall | 1/22/2020 | Area was frozen and cleaned up by manager on 1-23 (see also clean up by W.E.L. at Mamma's Pizza was the same area) | Yes | Cheri Bloss (shopping center manager) | 1/23/2020 |
| No | 1/22/2020 | Mamma's Pizza (Outfall ID 081-05) | Grease not contained in designated container | Fire Marshall | 1/22/2020 | Upon follow up on 1-23 area was pressure washed by employee on 1-22 and then had to be cleaned by W.E.L. (this area also included Hibachi Express dumpster pad) | Yes | Dominic (Mama Marias) | 1/29/2020 |
| No | 1/27/2020 | Taco Bell | Pressure washing sidewalk w/ soap or solvents | Fire Marshall | 1/27/2020 | Stopped pressure washing upon our inspection(impact minimal) City sent educational material via email and Taco Bell to use filtering device from this point. | Yes | M Robertson | 1/29/2020 |
| No | 2/3/2020 | Sun Station | Pressure washing building - paint film in wash water | Fire Marshall | 2/3/2020 | pressure washing was stopped and filter containment installed prior to resuming activities (no impact to storm drains) | Yes | L Wade | 2/3/2020 |
| No | 2/18/2020 | IHOP | Residue from dumpster noticed in parking lot(potential cooking grease) | Fire Marshall | 2/18/2020 | IHOP to contract professional cleaner to clean dumpster and surrounding area | Yes | | 2/19/2020 |
| No | 3/4/2020 | McDonalds | grease from dumpster area in parking area | Fire Marshall | 3/4/2020 | Grease was cleaned up by McDonalds and did not impact any storm drains | Yes | Cecilia Delarosa | 3/24/2020 |
| No | 4/22/2020 | 415 Apperson Dr. | Monster Powerwashing cleaning roof with solvent | Fire Marshall | 4/22/2020 | Contractor stopped activity and installed filter devices at gutters to prevent water from going to parking lot - no storm drains were impacted | Yes | | 4/23/2020 |