



City of Salem, Virginia

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040010

Permit Year

July 1, 2023 through June 30, 2024

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 per letter dated November 1, 2023.

Submitted: September 30, 2024

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ACRONYMS

BMP	Best Management Practices
DEQ	Virginia Department of Environmental Quality
IDDE	Illicit Discharge Detection and Elimination
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
POC	Pollutants of Concern
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
VPDES	Virginia Pollution Discharge Elimination System
WLA	Wasteload Allocation

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

1.1. General Information (Part I.D.3.a)

Permittee Name: City of Salem

Permit Number: VAR040010

1.2. Reporting Period (Part I.D.3.b)

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

July 1, 2023 through June 30, 2024

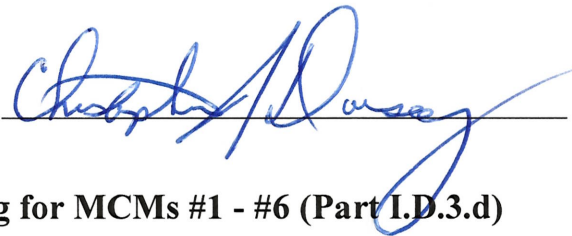
1.3. Signed Certification (Part I.D.3.c)

A signed certification as per Part IV 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: Christopher Dorsey

Title: City Manager

Signature:  Date: 9-30-2024

1.4. Reporting for MCMs #1 - #6 (Part I.D.3.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.3.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

No changes required.

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 summary of the public education and outreach activities conducted for the report year, including the strategies used to communicate the identified high-priority issues.

A summary of the public education and outreach activities conducted for the report year, including the strategies used to communicate the identified high-priority issues is provided in Table 2. Appendix A includes documentation of the communication efforts described in Table 2 including additional activities and events.

Table 2: High Priority Stormwater Issues

#	Stormwater Issue	Strategy	Communication	Metric	Beneficial	Included Climate Change Education
1	Public education on stormwater runoff – West Salem Elementary	Curriculum	Event	90 people	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2	Public Education on impacts of bacteria & sediment on stormwater – Stream School	Curriculum	Event	79 people	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3	Pollution Prevention	Media materials	Website & Social Media Posts	3,974 overall website views. Website does contain Stormwater PP links.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

2.1.3. Description of Changes in High Priority Stormwater Issues (Part I.E. 1.g(3))

A description of any changes in high-priority stormwater issues, including strategies used to communicate high-priority stormwater issues or target audiences for the public education and outreach plan. The permittee shall provide a rationale for any of these changes.

A description of any changes in high-priority stormwater issues and rationale for any of these changes are provided in Table 3. The changes to the strategies used to communicate high-priority stormwater issues or target audiences for the public education and outreach plan are provided in Table 2.

Table 3: Description of Changes in High Priority Stormwater Issues			
#	Stormwater Issue	Description of Any Changes	Rationale for Changes
1			

2.1.4. Description of Activities Regarding Climate Change (Part I.E. 1.g(4))

A description of public education and outreach activities conducted that included education regarding climate change.

A description of public education and outreach activities conducted that included education regarding climate change is provided in Table 2.

2.1.5. MCM #1 Evaluation (Part I.D.3.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 measurable goals 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.i(1))

A summary of any public comments on the MS4 program received and the responses.

Were any public comments on the MS4 Program received?

☐ Yes, responses are provided in Table 4. ☒ No

Table 4: Responses to Public Comments on the MS4 Program Plan		
#	Comments	Responses
1		
2		

2.2.2. Summary of Stormwater Pollution Complaints (Part I.E.2.i(2))

A summary of stormwater pollution complaints received under the procedures established in Part I.E.2.a(1), excluding natural flooding complaints, and how the permittee responded.

Were any stormwater pollution complaints received under the procedures established in Part I.E.2.a(1), excluding natural flooding complaints?

☐ Yes, responses are provided in Table 5. ☒ No

Table 5: Responses to Stormwater Pollution Complaints		
#	Comments	Responses
1		
2		

2.2.3. MS4 Program and Stormwater Webpage (Part I.E.2.i(3))

A webpage address to the MS4 program and stormwater website.

The webpage address is <https://www.salemva.gov/242/Stormwater-Information>

2.2.4. Internal MS4 Program Webpage (Part I.E.2.i(4))

Federal and state nontraditional permittees with security policies preventing the MS4 program and stormwater pollution prevention webpage from being publicly accessible utilizing an internal staff accessible website, such as intranet, shall provide evidence of the current internal MS4 program and stormwater pollution prevention webpage.

Is there an internal MS4 program and stormwater pollution prevention webpage?

☐ Yes, ☒ No

2.2.5. Public Involvement Activities Implemented (Part I.E.2.i(5))

A description of the public involvement activities implemented including any efforts to reach out and engage all economic and ethnic groups.

A description of the implemented public involvement activities are provided in Table 6.

2.2.6. Public Education and Outreach Regarding Climate Change (Part I.E.2.i(6))

A description of the public education and outreach activities conducted that also included education regarding climate change.

A description of the public education and outreach activities conducted that also included education regarding climate change is provided in Table 6.

2.2.7. Public Involvement Activity Metric and Evaluation (Part I.E.2.i(7))

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 6. Appendix B includes documentation of the public involvement activities.

Table 6: Public Involvement Activities Implemented

#	Activity Description /Date	Category	Metric	Collabo ration	Included Climate Change Education	Beneficial to Improving Water Quality
1	Waterways Clean-up Event	Restoration	205 Participants	Yes, CVC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Clean Valley Days	Restoration	234 Participants 2.78 Tons of Trash	Yes, CVC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Storm Drain Stenciling	Pollution Prevention	2 Participants and 20 Drains Stenciled	Yes, CVC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Wasena Bridge Bonanza Booth	Public Education	2,550 People	Yes, CVC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.2.8. MS4 Collaboration (Part I.E.2.i(8))

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 6.

2.2.9. 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 measurable goals 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.)

2.3. 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 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 (No Changes)

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

The total number of outfalls and observation points screened during the reporting period as part of the dry weather screening program.

The number of outfalls and observation points screened during the reporting year as part of the dry weather screening program is 50.

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 Table 7) ☐ No

Table 7: Illicit Discharges

Illicit Discharge #1

Part I.E.3.e(3)(a) Location and Source: 2101 Catlett Dr

Part I.E.3.e(3)(b) Date Observed & Date Reported: May 16, 2024

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): Citizen

Part I.E.3.e(3)(d) Investigation Resolution: Concrete washout not properly contained

Part I.E.3.e(3)(e) Description of Follow-up Activities: Letter sent to homeowner to notify and educate on proper disposal of concrete washout.

Part I.E.3.e(3)(f) Date Investigation Closed: May 16, 2024

Illicit Discharge #2

Part I.E.3.e(3)(a) Location and Source: 1206 West Main St

Part I.E.3.e(3)(b) Date Observed & Date Reported: May 10, 2024

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): DEQ

Part I.E.3.e(3)(d) Investigation Resolution: City followed up on initial investigation by DEQ citing potential illicit discharge of vehicle washing into City Storm Drain.

Part I.E.3.e(3)(e) Description of Follow-up Activities: City did not witness an illicit discharge and runoff from vehicle washing was not entering the City's storm sewer. Lot drains into the ground, not connected to a utility. City has advised the use of boom socks and biodegradable soaps for washing.

Part I.E.3.e(3)(f) Date Investigation Closed: May 15, 2024

Illicit Discharge #3

Part I.E.3.e(3)(a) Location and Source: 1903 Electric Road

Part I.E.3.e(3)(b) Date Observed & Date Reported: November 13, 2023

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): Fire Marshall

Part I.E.3.e(3)(d) Investigation Resolution: Grease traps overflowing into side yard.

Part I.E.3.e(3)(e) Description of Follow-up Activities: Fine assessed by Court as City's records indicate this is the 4th illicit discharge from property owner since 2009. Owner hired contractor to clean overflowing grease and impacted side yard.

Part I.E.3.e(3)(f) Date Investigation Closed: November 21, 2023

2.3.4. 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 measurable goals 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.)

2.4. MCM #4: Construction Site Stormwater Runoff and Erosion and Sediment Control

2.4.1. Land Disturbing Activities (Part I.E.4.a(1))

The traditional MS4 has adopted a Virginia Erosion and Sediment Control Program (VESCP), the permittee shall implement the VESCP consistent with the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq. of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840).

2.4.1.1. Site Stormwater Runoff Inspections (Part I.E.4.e(1))

Total number of erosion and sediment control inspections conducted.

The total number of erosion and sediment control inspections conducted are provided in Table 8.

2.4.1.2. Enforcement Actions (Part I.E.4.e(2))

The total number and each type of compliance actions and enforcement implemented.

The total number of compliance actions implemented which include Notices of Violations and Stop Work Orders are provided in Table 8.

Table 8: Construction Project(s) Inspections and Compliance Actions and Enforcement		
Total Number of Inspections	Total Number of Notices of Violation Issued	Total Number of Stop Work Orders Issued
790	64	6

2.4.2. MCM #4 Evaluation (Part I.D.3.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 #4 measurable goals 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.)

2.5. MCM #5: Post-Construction Stormwater Management

2.5.1. VSMP Inspection and Maintenance Program (Part I.E.5.a(1))

The traditional MS4 has an approved Virginia Stormwater Management Program (VSMP) and implements the VSMP consistent with the Virginia Stormwater Management Act (§62.1-44.15:24 et seq. of the Code of Virginia) and VSMP Regulations (9VAC25-870) as well as maintain an inspection and maintenance program in accordance with Part I E 5 b and c.

2.5.2. Privately Owned SMF Inspections (Part I.E.5.e(1)(a))

The number of privately owned stormwater management facility inspections conducted.

The number of privately owned stormwater management facility inspections conducted are 10.

2.5.3. Privately Owned SFM Maintenance (Part I.E.5.e(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 facility inspections conducted are 0 and the type of enforcement action are N/A. The City has also issued letters to every private SMF. A second letter will be issued in the next reporting year and required maintenance activities will be followed up on.

2.5.4. MS4 Owned or Operated Inspections (Part I.E.5.e(2))

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

The number of MS4 owned stormwater management facility inspections conducted are 15.

2.5.5. MS4 Owned or Operated Maintenance (Part I.E.5.e(3))

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

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

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

If yes, 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 9.

Table 9: Maintenance Activities Performed on Stormwater Management Facilities	
Stormwater Management Facility	Significant Maintenance Activity
N/A	Routine maintenance has occurred but no Significant Maintenance needs were found this year.

2.5.6. Virginia Construction Stormwater General Permit Database (Part I.E.5.e(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 III B 1 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 (9VAC25-880).

Stormwater management facility information was submitted 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 III B 1.

☒ Yes ☐ Not Applicable (No Projects completed requiring coverage under the General VPDES Permit.)

2.5.7. DEQ BMP Warehouse (Part I.E.5.e(5))

A confirmation statement that the permittee electronically reported stormwater management facilities using the BMP Warehouse in accordance with Part III B 1 and 2.

Did the MS4 electronically report using the DEQ BMP Warehouse any stormwater management facilities installed that disturbed less than one acre and for which a General VPDES Permit for Discharges of Stormwater Construction Activities was not required and BMPs implemented as part of a TMDL action plan to achieve nitrogen, phosphorous, and total suspended solids reductions?

☐ Yes ☐ No () ☒ NA

2.5.8. DEQ BMP Warehouse (Part I.E.5.e(6))

A confirmation statement that the permittee electronically reported stormwater management facilities inspected using the DEQ BMP Warehouse in accordance with Part III B 5.

Did the MS4 electronically report using the DEQ BMP Warehouse stormwater management facilities inspections information?

☐ Yes ☒ No (BMPs were not reported due to login issues.)

2.5.9. MCM #5 Evaluation (Part I.D.3.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 measurable goals completed in accordance with the MS4 Program Plan?

☐ Yes ☒ No (BMP Warehouse Reporting not completed due to login issues.)

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.y(1))

A summary of any written procedures developed or modified in accordance with Part I E 6 a and b 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 10) ☒ No (No modifications required.)

Table 10: Good Housekeeping Operational Procedures Developed or Modified

Not Applicable

2.6.2. High Priority Facility Review (Part I.E.6.y(2))

A confirmation statement that all high-priority facilities were reviewed to determine if SWPPP coverage is needed during the reporting period.

Were all high-priority facilities reviewed to determine if SWPPP coverage is needed during the reporting period?

☒ Yes ☐ No ()

2.6.3. Newly Developed SWPPPs (Part I.E.6.y(3))

A list of any new SWPPPs developed in accordance Part I E 6 i during the reporting period.

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

☐ Yes (Refer to Table 11) ☐ No () ☒ Not Applicable (No new high priority facilities)

Table 11: New SWPPPs Developed

SWPPP Name	SWPPP Address
Not Applicable	

2.6.4. Modified SWPPPs (Part I.E.6.y(4))

A summary of any SWPPPs modified in accordance with Part I E 6 j, 6 l, or 6 m.

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

☐ Yes (Refer to Table 12) ☐ No () ☒ Not Applicable (No modifications required)

Table 12: Modified SWPPPs

SWPPP Name	SWPPP Address
Not Applicable	

2.6.5. Delisted SWPPPs (Part I.E.6.y(5))

The rationale of any high priority facilities delisted in accordance with Part I E 6 l or m during the reporting period.

Were any high priority facilities delisted in accordance with Part I.E.6 l or m during the reporting period?

☐ Yes (Refer to Table 13) ☒ No

Table 13: Delisted SWPPPs

Delisted SWPPPs	Rationale for Delisting
Not Applicable	Not Applicable

2.6.6. Nutrient Management Plans status (Part I.E.6.y(6))

The status of each nutrient management plan as of June 30 of the reporting year (e.g., approved, submitted and pending approval, and expired).

Refer to Table 14 for the status of each nutrient management plan as of June 30 of the reporting year.

Table 14: New Turf and Landscape Nutrient Management Plans

Nutrient Management Plan	Status
City of Salem – Parks (27.16 Acres)	Active (Expires 7/15/2024)
City of Salem – Schools (37.13 Acres)	Active (Expires 9/01/2025)
City of Salem – Municipal (12.29 Acres)	Active (Expires 04/15/2027)
Salem Golf Course (35 Acres)	Active (Expires 07/01/2026)
Salem Memorial Stadium (2.4 Acres)	Active (Expires 04/15/2027)

2.6.7. Training Events (Part I.E.6.y(7))

A list of the training activities conducted in accordance with Part I.E.6.d, including the following information: (a) The completion date for the training activity; (b) The number of employees who completed the training activity; and (c) The objectives and good housekeeping procedures covered by the training activity.

Was training conducted?

☒ Yes (See Table 15) ☐ No () ☐ Not Applicable (Not required this report year)

Table 15: Training Activities		
Dates	# of Employees	Training Objectives and Good Housekeeping Procedures Covered
5/15/2024	42	Good Housekeeping and Pollution Prevention and IDDE
5/29/2024	68	Good Housekeeping and Pollution Prevention and IDDE

2.6.8. MCM #6 Evaluation (Part I.D.3.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 measurable goals 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.)

3.0 LOCAL TMDL ACTION PLANS

3.1. Bacteria Action Plan (Part II.B.5)

3.1.1. Roanoke River Bacteria TMDL Implementation

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

A summary of actions conducted to implement the Roanoke River Bacteria TMDL action plan is provided in Table 16.

Table 16: Roanoke River Bacteria TMDL Action Plan Summary of Actions		
Strategy	Summary of Actions	Completion Status
Provide signage to pick up dog waste, providing pet waste bags and disposal containers	Post signage and provide disposal containers and waste bags.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Implement and enforce ordinances or policies related to outdoor water waste.	See Section 4.1.8 of this report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Educate the public on sewer backup prevention and actions taken if the sewer overflows.	https://saalemva.gov/Departments/Water-Sewer-Dept/Wastewater-Operations/Sewer-Backups-and-Overflows	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Implement an educational program beyond any requirements in Part I E 1 though E 6 to explain to citizens why they should not dump materials into the MS4.	Enhanced Public Education and Outreach and Public Participation within the watershed through partnership with the Clean Valley Council	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3.2. Sediment Action Plan (Part II.B.6)

3.2.1. Roanoke River Sediment TMDL Implementation

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

A summary of actions conducted to implement the Roanoke River Sediment TMDL action plan is provided in Table 17.

Table 17: Roanoke River Sediment TMDL Action Plan Summary of Actions		
Strategy	Summary of Actions	Completion Status
Research additional credits to decrease the required reduction and select a street sweeping scenario to implement	<p>Coordination with DEQ to be able to take additional credit for the implementation of Salem's MS4 Program.</p> <p>Evaluate a credit for the reduced land disturbance threshold written in Salem's ordinance.</p> <p>Determine lane miles swept potential of City streets. Select a street sweeping scenario to implement from Table 6 of this report.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tracking documentation	Develop necessary documentation per expert panel report.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Staff training	Develop sweeping training materials and implement training.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Program evaluation	<p>Assess numerical progress towards meeting the WLA over the permit cycle.</p> <p>Re-evaluate Street Sweeping Program.</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Description of Actions:

The City has implemented a street sweeping program. In 2023-2024 MS4 reporting year the City swept a total 2,315 lane miles. The City will refine the street sweeping program which includes defining curb miles swept vs non-curb miles and selecting a street sweeping frequency for routes.

3.3. PCB Action Plan (Part II.B.7)

3.3.1. Roanoke River PCB TMDL Implementation

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

A summary of actions conducted to implement the Roanoke River PCB TMDL action plan is provided in Table 18.

Table 18: Roanoke River PCB TMDL Action Plan Summary of Actions		
Strategy	Summary of Actions	Completion Status
Identification of significant sources of PCBs	Assessment of City Properties	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Site-specific SWPPPs for City owned properties with the potential to discharge PCBs	SWPPP developed, implemented and maintained for the Streets Facility	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
MS4 Program MCMs developed to address and minimize PCBs	MCMs 1 - 4 and 6 and City Ordinances developed and implemented to specifically address and minimize PCBs	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
New discoveries previously unidentified significant sources of PCBs reported, if found	Notification to DEQ in writing within 30 days of discovery, if found	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Appendix A: Documentation of Public Education and Outreach Activities

Date	Location and Event	School Program Name	# of Adults Served	# of Students Served	#Total Served/Reached (adds Adults and children)	Municipality
7/15/2023	Explore Park-Adventure Day		160	50	210	ALL
8/7/2023	Mill Mountain Wildflower Garden-Pollinator Promenade		5	2	7	ALL
8/9/2023	BrownRobertsonPark/LickRunGarden-Pollinator Promenade		6	0	6	ALL
8/10/2023	MountianViewCommunityGardens-Pollinator Promenade		6	0	6	ALL
8/28/2023	Blue Ridge Soil and Water Conservation farm tour		55	0	55	ALL
9/26/2023	Andrew Lewis Middlde School	stream school	2	11	13	Salem
10/14/2023	GoFest		20000	20000	40,000	ALL
10/15/2023	GoFest			0	0	ALL
10/16/2023	GoFest			0	0	ALL
10/26/2023	Smith Gap Landfill w/ Andrew Lewis Middle		4	12	16	Salem
10/28/2023	Explore Park spooktacular		25	20	45	ALL
11/14/2023	Salem Ice Cream Parlor - meeting with Earth Summit volunteers		3	0	3	Salem
11/17/2023	Earth Summit at Roanoke College		51	117	168	ALL
12/9/2023	salem farmers market	CVC table at market	50	0	50	Salem
1/23/2024	Roanoke College first meeting with Honors Capstone students		1	14	15	Salem
2/13/2024	conference at Salem Civic Center	VA Blue Ridge Partnership Summit	20	0	20	ALL
2/13/2024	meeting with Roanoke College Honors students	honors capstone consultation	1	4	5	Salem
2/14/2024	meeting with Roanoke College Honors students	honors capstone consultation	1	5	6	Salem
3/11/2024	West Salem Elementary STEAM night		5	250	255	Salem
3/13/2024	Clean VA Waterways Plastic Pollution Conference in Chesapeake		20	0	20	ALL
4/2/2024	Smith Gap Landfill with Roanoke College students		4	4	8	Salem
4/9/2024	Andrew Lewis Middle to Water Treatment and Carvins Cove	stream school, field trip to treatment plant	9	57	66	Salem
4/10/2024	Roanoke College student heat island presentation to kids at Glenvar Library		8	4	12	Salem
4/11/2024	Soil Who Needs it at West Salem Elementary	Soil Who Needs It	3	46	49	Salem
4/13/2024	Downtown Roanoke-Daisy Art Parade		2000	500	2500	ALL
4/13/2024	Wasena Bridge Bonanza		2300	250	2550	ALL

4/18/2024	Roanoke Industrial Park--Orvis Cleanup		157	0	157	ALL
4/19/2024	West Salem Elementary	Rigsby and the 3 R's	6	84	90	Salem
4/20/2024	Downtown Roanoke-Earth Day at Foot Levelers Blue Ridge Marathon		7000	2000	9000	ALL
4/21/2024	Unitarian Universalists Church		92	30	122	ALL
4/22/2024	Fralin Biomedical Research Institute Earth Day Green Labs		214	0	214	ALL
4/27/2024	Mill Mountain Zoo Party for the Planet/Art to Rescue the River		330	170	510	ALL
4/27/2024	Grandin Court Library-GO Green Event		120	46	166	ALL
5/1/2024	Twisted Track-Blue Ridge Rotary Club	Evening presentation	7	0	7	ALL
5/11/2024	Rethink, Reuse, Repair Fair at Wasena		400	100	500	ALL
5/15/2024	rain barrel workshop at Salem Farmers Market		10	0	10	Salem
6/1/2026	Shiloh Men's Ministry and Kiwanis Nature Park		6000	4000	10000	ALL
6/5/2024	VAMC Earth Day Salem VA Medical Center		100	0	100	Salem
6/25/2024	Stenciling City of Salem-20 storm drains		1	1	2	Salem

High Priority Stormwater Issue #1

West Salem Elementary School - Curriculum Program

RIGSBY/RECYCLING



Pre-K/Kindergarten/1st

Students investigate a park that has been littered and meet Rigsby the Raccoon, who finds that his park pals have each been impacted by litter. This is a storybook and puppet show, and part of the lesson involves presenting types of litter that can be recycled. Ideas of litter and trash are explained, and students connect these concepts to recycling.

If appropriate for the individual class, the identification of natural resources and their use for making the items that Rigsby found may be covered. Activities include introduction to reducing, reusing, refusing, refilling, and recycling.

Program duration: 45 minutes

Approximate set up/takedown time: 15 minutes/5 minutes

Terms and concepts: litter, reduce, reuse, recycle, habitat, pollution

Virginia Standards of Learning: Science: K.7, K.11 and 1.5, 1.8; English: K.1, K.2, 7, K.8, 1.9



High Priority Stormwater Issue #2

Andrew Lewis Stream School 4-9-24

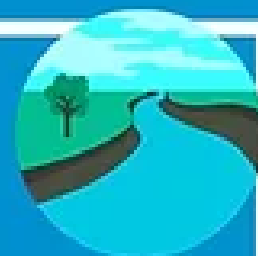








OUTDOOR STREAM SCHOOL



What makes a stream healthy? Bring your students to a local stream (we choose one together) and find out. This program includes testing for water quality, discussion of riparian areas, and performing a bioassessment of the stream using standardized methods. Activities include sampling the stream to identify freshwater species including benthic macroinvertebrates. Students learn about the importance of benthic macroinvertebrates to stream health, and about methods for measuring stream health.

Note: This program is taught at a stream. Participants should wear shoes that can get wet.

Program duration: 45 – 60 minutes

Approximate set up/takedown time: travel time to and from selected stream site


Terms and concepts: benthic macroinvertebrate, riparian corridor, soil erosion, sedimentation, turbidity, pH, dissolved oxygen, water quality

Virginia Standards of Learning: Science: 6.6, 6.8, 6.9; LS.5, LS.6, LS.7, LS.8, LS.9, LS.11; ES.8; BIO.2, BIO.8



High Priority Stormwater Issue #3

Website View Data		
Month	Sessions	Visitors
July	355	235
August	547	318
September	429	296
October	583	383
November	505	342
December	362	263
January	484	325
February	594	399
March	735	491
April	897	600
May	933	640
June		
Total	5877	3974
Average	584	390.1818


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Stormwater


Stormwater runoff is rain that falls on streets, parking areas, sports fields, gravel lots, rooftops or other developed land and flows directly into nearby creeks and rivers. Rain picks up and mixes with substances on the ground such as:

- oil and grease
- metals
- coolants from vehicles
- fertilizers and pesticides from gardens
- bacteria from pet waste and failing septic systems
- soil from construction sites and other bare ground
- soaps from car or equipment washing
- leaky storage containers
- tobacco, spit, cigarette butts, etc.

What and Why

The most effective way to reduce stormwater pollution is to stop it from getting in there in the first place!

The water that runs off the roads, your roof,



Understanding Stormwater Pollution

Be part of the Solution, not the Pollution!



What Can You Do?

Protect all nearby stormwater inlets and drainage channels before beginning your projects.

1. **Filter** runoff by placing rags, straw bales, or filter socks (available online and at home improvement stores) around stormwater inlets to capture soils and other pollutants. Washing your car on the lawn acts as a natural filter.
2. **Contain** soil, gravel, mud, oil, grease, dust, grass/brush trimmings, waste/wash water, and all liquid or semi-solid wastes.
3. **Cover** and protect all trash and project materials (with lids or tarps) to protect against loss by wind and rain.
4. **Sweep** and properly dispose of any loose debris remaining on the ground. Soil residue should not be hopped away.
5. **Dispose** of hazardous wastes on the third Saturday of each month at the Roanoke Valley Resource Authority at 1020 Hollins Road NE. Call 540-203-6562 or go online at www.rva.net to make an appointment.

Nothing disappears. The pollution that gets carried into our waterways affects our drinking water, recreation, local economy, wildlife, and those downstream of us. Let's leave a Clean Water Legacy for our kids and grandkids; do your part at home, in your neighborhood and at work!

What is Stormwater Runoff?

Stormwater runoff is the water that flows across the land from a storm event (rain and snowmelt). This is the water that is not absorbed by grass and soil and that runs off impervious/paved surfaces. As it moves, it collects pollutants and carries them directly into our waterways.



A 1,600 sq ft roof sheds almost 1,000 gallons of runoff during a 1" rain event. While a grass lawn of the same size sheds only 150 gallons of runoff.

Vegetated areas, unlike paved areas, slow down runoff, allow it to soak into the water table, and reduce erosion.

Stormwater is not treated! The stormdrain system is separate from the sanitary sewer system (wastewater from kitchens, bathrooms, etc.) and goes directly to our local streams untreated.

Sources of Pollution



Yes, Soil is a Pollutant!

Extra soils/sediment entering waterways can come from erosion and from home or commercial construction projects. Sediment can:

- Clog stormdrains leading to localized flooding.
- Carry other pollutants that cling to soils (like bacteria, nutrients, or PCBs).
- Block sunlight needed for aquatic plants.
- Clog the gills of fish and other aquatic organisms.
- And reduce the amount of dissolved oxygen in the water.

Keeping soils covered with vegetation is one of the best ways to keep soil in place.

Land Disturbance (Erosion and Sediment) permits are only necessary if your project area is 2,000 sq ft or larger; however, the law requires that you follow the guidelines listed in this brochure for projects of any size.

Inlet Checkup

Please be sure to periodically check the stormdrain inlet near your home.

If the inlets are clogged, or if ditches or gutters are blocked with debris, please remove the debris or report the conditions to the City using the contact information listed on the back of this brochure.



Before you do this:



Be sure you do this!



City Code prohibits the discharge of anything other than stormwater into the City's stormdrain system. Failure to comply is a violation and may result in a penalty.

The requirements listed in this brochure are in accordance with the U.S. Clean Water Act, the Virginia Stormwater Management Act, and the Municipal Code of the City of Roanoke.





Litter
Stormwater
Recycling
Reuse
Composting

RIGSBY/RECYCLING



Pre-K/Kindergarten/1st
Students investigate a park that has been littered and meet Rigsby the Raccoon, who finds that his park pals have each been impacted by litter. This is a storybook and puppet show, and part of the lesson involves presenting types of litter that can be recycled. Ideas of litter and trash are explained, and students connect these concepts to recycling.

If appropriate for the individual class, the identification of natural resources and their use for making the items that Rigsby found may be covered. Activities include introduction to reducing, reusing, refilling, and recycling.

Program duration: 45 minutes
Approximate set up/takedown time: 15 minutes/5 minutes
Terms and concepts: litter, reduce, reuse, recycle, habitat, pollution

Virginia Standards of Learning: Science: K.7, K.11 and 1.5, 1.8; English: K.1, K.2, T, K.8, 1.9



Register Here!

WHO POLLUTED THE RIVER?



Pre-K/Kindergarten/1st
This program is action packed with a journey from headwaters to ocean. Along the way, students discover that the choices humans make impact water quality and the species that live in streams and rivers. Activities such as farming and littering are discussed in the context of water pollution and stream health.

This is an interactive program in which students identify pollution sources, add them to a "river," and journey through a watershed. Discussion includes litter prevention and natural areas.

Program duration: 30 – 45 minutes
Approximate set up/takedown time: 15 minutes/5 minutes
Terms and concepts: litter, water pollution and prevention, watershed, soil erosion, pesticides, fertilizer, land use

Virginia Standards of Learning: Science: K.4, K.7, K.10, K.11 and 1.4, 1.5, 1.8; English: K.1, K.2, 1.1, 1.2, 1.7



Register Here!

WARVILLE WIZARD



Kindergarten/1st Grade
The wizard is sad because the people in his town litter. The wizard becomes empowered and teaches the townspeople how to prevent littering, but not before they all learn a lesson about why littering is bad.

The program concludes with a class discussion about the book and how the good and bad choices that the people of Warville made have impacted the environment. Activities also include sorting items to introduce reducing, reusing, and recycling.

Program duration: 30 – 45 minutes
Approximate set up/takedown time: 15 minutes/5 minutes
Terms and concepts: litter, landfill, reduce, reuse, recycle, environment

Virginia Standards of Learning: Science: K.11 and 1.4, 1.5, 1.8; English: K.1, K.2, K.7, 1.1, 1.2, 1.9



Register Here!

NELSON'S DANGEROUS DIVE



Kindergarten/1st Grade
A program about the impact of plastic and other sorts of pollution on ocean creatures, students will listen to a story about Nelson, a whale who becomes entangled in a discarded fishing net, and the divers who help him. Students will explore some examples of plastic debris that are particularly dangerous to animals, watch a short video of an actual whale rescue, and engage in discussion about ways to minimize negative human impacts on the natural world. A hands-on activity will enable groups of students to explore ways to lessen the impact of plastic trash.

Note: We offer a variant of this program focused on Duffy's "Lady Escapel," a story about a sea turtle's encounter with plastic pollution.

Virginia Standards of Learning: Science: K.7, K.11 and 1.5, 1.8; English: K.1, K.2, K.7, 1.1, 1.2, 1.9



Register Here!

THE WATER/GREEN GAME



2nd grade/3rd grade/4th grade/5th grade
Freshwater conservation and related concepts are explored in the context of a large, interactive board game format.

Students learn the importance of keeping pollutants out of waterways and gain familiarity with water consumption, which students track using their math skills such as addition and subtraction.



SOIL: Who Needs It?



3rd grade
Soil is an important part of our environment. This program helps students take a journey to discover the story of soil.

It includes a short video discussing the nature and causes of soil erosion. Along with the video, students learn the importance of prevention and erosion and some of the ways in which soil erosion



GROUNDWATER



4th grade/5th grade/6th grade
Always under our feet, groundwater provides a wide range of ecosystem services. This program takes students on a journey underground to discover this important part of the water cycle. The class will discuss numerous phenomena relating to groundwater, such as water storage, filtration, and drinking water. Students will learn about groundwater systems and discuss ways



WATERSHEDS TO OCEANS



4th grade/5th grade/6th grade
Water pollution is brought to life in this interactive program using our Enviroscope.

Students identify pollution sources around a community and place them on the Enviroscope. This tool models the water cycle and the process of rain washing pollution through the watershed into the ocean, enabling students to visualize the various sources of



Appendix B: Documentation of Public Involvement Activities

Public Involvement Activity #1

Fall Waterways October 2023

Date	Event Name	Team Name	Lead Contact	Location of Cleanup	Total Estimated Volunteers	Total Actual Volunteers	Total Hrs	# bags	cu. ft.	#lbs	cu. yds.	Tons	Tires
10/5/2023	Fall Waterways	William Byrd H.S. Ecology cla	Rusty Galbreath	2902 Washington Ave - William Byrd H.S. grounds	131	82	82	3	12	75	0.4444	0	0
10/7/2023	Fall Waterways	Roanoke	Bill Flynn	Wasena Park	20	7	14	3	12	75	0.4444	0	0
10/7/2023	Fall Waterways	Delta Dental of Virginia	Glen Mitchell	Starkey Park, Merriman Road	15	5	10	5	20	125	0.7407	0.1	0
10/7/2023	Fall Waterways	Roanoke Valley Trout Unlimited	George Kesler	6040 Steeplechase Dr	22	10	17	9	36	225	1.3333	0.1	0
10/8/2023	Fall Waterways/AAS	Orvis Downtown Roanoke	Brett Winchel	Orvis Adopt-a-Street Cleanup location from low water bridge to low water bridge in Smith Park.	10	6	18	11	44	275	1.6296	0.1	3
10/8/2023	Fall Waterways	Roanoke Valley Interact	Josephine Eaton	Intersection of Routt road and Ferncliff Ave. We are cleaning the piece of Greenway there and the surrounding fields.	20	14	42	28	112	700	4.1481	0.4	0
10/10/2023	Fall Waterways	Yokohama Tire Plant Salem VA	Bryan Lawson	The start of the Greenway at Sheetz on Apperson to the River Rock Restaurant in Salem. Then we will have a small group at Green Hill Park doing the Greenway there.	12	12	56	24	96	600	3.5556	0.3	3
10/10/2023	Fall Waterways	Outdoor Kids	Samantha Miller	Brookside Park	14	11	22	3	12	75	0.4444	0	
10/14/2023	Fall Waterways	Mill Mountain Zoo Crew	Courtney Taylor	The Zoo Crew will cleanup trails/area at the Mill Mountain Park	16	4	3	5	20	125	0.7407	0.1	0
10/22/2023	Fall Waterways	Waterway Warriors	Maggie Tate	Tinker Creek	17	15	30	7	28	175	1.037	0.1	1
10/27/2023	Fall Waterways/AAS	Hill Street Baptist Church	Darnell Wood	Madison Avenue to Lincoln Terrace to I-581 Bridge	3	3	6	3	12	75	0.4444	0	0
10/28/2023	Fall Waterways	Winter Drive Families	Robyn McKeever	Along the creek and roadside of winter drive	28	36	252	42	168	1050	6.2222	0.5	0
Grand Totals					386	205	552	143	572	3575	21.185	1.8	7

Public Involvement Activity #2

Clean Valley Days - April 2024

Date	Event Name	Team Name	Lead Contact	Location of Cleanup	Total Estimated Volunteers	Total Actual Volunteers	Total Hrs	# bags	cu. ft.	#lbs	cu. yds.	Tons	Tires
4/4/2024	Clean Valley Day	Pathfinders for Greenways	Liz Belcher	Dutch Oven Road and 311, as part of Hinchee Park Hardy Road, Bypass Road, and Clearview Drive. If time permitted, will do Washington Avenue from Bypass Road to Lynn Haven Circle.	8	2	5	7	28	175	1.037037	0.0875	3
4/5/2024	Clean Valley Day	IN Vinton Clean-Up Crew	Anita McMillan	Sunrise Park Southern Hills Dr.	16	9	27	25	100	625	3.703704	0.3125	0
4/5/2024	Clean Valley Day	n/a	Jason Davis	Riverside	1	1	1	1	4	25	0.148148	0.0125	0
4/6/2024	Adopt-A-Street/Clean	Secular Humanists of Roanoke	Bill Flynn	Roanoke River at Green Hill Park	14	6	10	4	16	100	0.592593	0.05	0
4/6/2024	Clean Valley Day	Kesler Family	George Kesler	Alley by Patrick Henry HS parking lot, Grandin Road in front of Patrick Henry HS, Guilford Ave SW, possibly park by All Sports Cafe	8	12	24	22	88	550	3.259259	0.275	0
4/6/2024	Clean Valley Day	Grandin Court Neighborhood Association	Dan Cohen	Lick Run Greenway. We are planning to cleanup Lick Run Greenway starting 2pm, likely finish 3:30-4:30pm. We will leave the bags near public trash cans.	21	21	32	11	44	275	1.62963	0.1375	1
4/6/2024	Clean Valley Day	Hiking in Roanoke	Hong Liu	AAS stretch of Williamson Road	36	35	100	5	20	125	0.740741	0.0625	0
4/6/2024	Adopt-A-Street/Clean	Sustainable Roanoke	Lenny Kolstad	Melrose	10	10	20	10	40	250	1.481481	0.125	0
4/6/2024	Adopt A Street/Clean	SERV	Decca Knight	Grandin Road from Mud Lick Road to Airview Road	20	11	2	10	40	250	1.481481	0.125	0
4/6/2024	Clean Valley Day	n/a	Bob Bengtson	Fishburn Park	1	1	1	2	8	50	0.296296	0.025	0
4/6/2024	Clean Valley Day	Freedom First Credit Union	Samantha DeSana	Emma Batty/Annil River's Edge	9	5	8	5	20	125	0.740741	0.0625	0
4/6/2024	Clean Valley Day	Patrick Henry NHS	Emma Batty/Annil	Virginia Heights Neighborhood near Grandin Village 5-block area in NW Roanoke bounded by 5th and 8th Streets, Centre Avenue and Moorman Road.	30	27	20	30	120	750	4.444444	0.375	0
4/6/2024	Clean Valley Day	PRI3	Annette Maness	Yellow Mountain Road adjacent to Fern Park Orvis Roanoke Adopt-a-Street location along Wiley Drive SW. (Smith Park)	3	3	6	2	8	50	0.296296	0.025	0
4/6/2024	Adopt-A-Street/Clean	One Valley	Gene Yagow	Riverland. Primrose to Bennington	8	8	11	13	52	325	1.925926	0.1625	0
4/6/2024	Clean Valley Day	n/a	Earl Watts	Near ASPCA; intersection of 13th st and Baldwin Ave, near Tinker Creek	1	1	2	2	8	50	0.296296	0.025	0
4/7/2024	Adopt-A-Street/Clean	Orvis Downtown Roanoke	Brett Winchel	Fallon Park - 2116 Dale Ave SE, Roanoke, VA 24013	15	6	3	10	40	250	1.481481	0.125	4
4/7/2024	Adopt-A-Street/Clean	Roanoke Republican Women	Barbara Duerk	Along Back Creek at Winter Drive	6	4	8	6	24	150	0.888889	0.075	0
4/13/2024	Clean Valley Day	Kristi Hatfield's Team	Kristi Hatfield		13	5	8	9	36	225	1.333333	0.1125	0
4/16/2024	Clean Valley Day	CIRCLE Homeschool Co-op	Angela Reynolds		45	30	60	9	36	225	1.333333	0.1125	0
4/20/2024	Clean Valley Day	Winter Drive Families	Robyn McKeever		36	37	148	40	160	1000	5.925926	0.5	0
Totals					418	234	496	223	892	5575	33.03704	2.7875	8

Public Involvement Activity #3

Storm Drain Stenciling June 25, 2024







Public Involvement Activity #4

Wasena Bridge Bonanza 4-13-24



