



Town of Christiansburg, Virginia

Municipal Separate Storm Sewer System Annual Report

For
General Permit No. VAR040025

Permit Year
July 1, 2021 through June 30, 2022

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: October 2, 2022

TABLE OF CONTENTS

<u>1.0 GENERAL ANNUAL REPORTING REQUIREMENTS</u>	1
1.1. General Information (Part I.D.2.a).....	1
1.2. <u>Reporting Period (Part I.D.2.b)</u>	1
1.3. Signed Certification (Part I.D.2.c).....	1
1.4. <u>Reporting for MCMs #1 - #6 (Part I.D.2.d)</u>	1
1.5. <u>Evaluation of the MS4 Program Implementation (Part I.D.2.e)</u>	2
<u>2.0 MINIMUM CONTROL MEASURES</u>	3
2.1. <u>MCM #1: Public Education and Outreach</u>	3
2.1.1. <u>High Priority Stormwater Issues (Part I.E.1.g(1))</u>	3
2.1.2. <u>High Priority Stormwater Issue Communication Strategies (Part I.E. 1.g(2))</u>	3
2.1.3. <u>MCM #1 Evaluation (Part I.D.2.e)</u>	4
2.2. <u>MCM #2: Public Involvement and Participation</u>	5
2.2.1. <u>Public Input Summary (Part I.E.2.f(1))</u>	5
2.2.2. <u>MS4 Program Webpage (Part I.E.2.f(2))</u>	5
2.2.3. <u>Public Involvement Activities Implemented (Part I.E.2.f(3))</u>	5
2.2.4. <u>Public Involvement Activity Metric and Evaluation (Part I.E.2.f(4))</u>	5
2.2.5. <u>MS4 Collaboration (Part I.E.2.f(5))</u>	6
2.2.6. <u>MS4 Program Plan BMP Measurable Goals</u>	7
2.2.7. <u>MCM #2 Evaluation (Part I.D.2.e)</u>	7
2.3. <u>MCM #3: Illicit Discharge Detection and Elimination</u>	8
2.3.1. <u>MS4 Map and Information Table (Part I.E.3.e(1))</u>	8
2.3.2. <u>Dry Weather Screening (Part I.E.3.e(2))</u>	8
2.3.3. <u>Illicit Discharges (Part I.E.3.e(3))</u>	8
2.3.4. <u>MS4 Program Plan BMP Measurable Goals</u>	9
2.3.5. <u>MCM #3 Evaluation (Part I.D.2.e)</u>	9
2.4. <u>MCM #4: Construction Site Stormwater Runoff Control</u>	10
2.4.1. <u>Implementation of VESCP and Town Ordinance (Part I.E.4.a(1))</u>	10
2.4.2. <u>Site Stormwater Runoff Inspections (Part I.E.4.d(2))</u>	10
2.4.3. <u>Enforcement Actions (Part I.E.4.d(3))</u>	10
2.4.4. <u>MCM #4 Evaluation (Part I.D.2.e)</u>	10
2.5. <u>MCM #5: Post-Construction Stormwater Management</u>	11
2.5.1. <u>Implementation of VSMP and Town Ordinance (Part I.E.5.i (1))</u>	11
2.5.1.1. <u>Privately-Owned VSMP Inspections (Part I.E.5.i (1)(a))</u>	11
2.5.1.2. <u>Privately-Owned VSMP Enforcement Actions (Part I.E.5.i (1)(b))</u>	11
2.5.2. <u>Stormwater Management Facility Inspections (Part I.E.5.i(2))</u>	11
2.5.3. <u>Stormwater Management Facility Maintenance (Part I.E.5.i(3))</u>	12

2.5.4. Virginia Construction Stormwater General Permit Database (Part I.E.5.i(4))	13
2.5.5. DEQ BMP Warehouse (Part I.E.5.i(5))	13
2.5.6. MS4 Program Plan BMP Measurable Goals	13
2.5.7. MCM #5 Evaluation (Part I.D.2.e)	14
2.6. MCM #6: Pollution Prevention and Good Housekeeping	15
2.6.1. Operational Procedures (Part I.E.6.q(1))	15
2.6.2. Newly Developed SWPPPs (Part I.E.6.q(2))	15
2.6.3. Modified or Delisted SWPPPs (Part I.E.6.q(3))	15
2.6.4. Newly Developed Nutrient Management Plans (Part I.E.6.q(4))	16
2.6.4.1. Nutrient Management Plan Acreage (Part I.E.6.q(4)(a))	16
2.6.4.2. Nutrient Management Plan Approval Date (Part I.E.6.q(4)(b))	16
2.6.5. Training Events (Part I.E.6.q(5))	16
2.6.5.1. Training Dates (Part I.E.6.q(5)(a))	17
2.6.5.2. Quantity Trained (Part I.E.6.q(5)(b))	17
2.6.5.3. Training Objective (Part I.E.6.q(5)(c))	17
2.6.6. MS4 Program Plan BMP Measurable Goals	17
2.6.7. MCM #6 Evaluation (Part I.D.2.e)	18
3.0 TMDL SPECIAL CONDITIONS	19
3.1. Crab Creek and Upper Roanoke River E.coli TMDL Action Plan	19
3.1.1. Bacteria TMDL Implementation (Part II.B.9)	19
3.2. Crab Creek and Upper Roanoke River Sediment TMDL Action Plan	21
3.2.1. Sediment TMDL Implementation (Part II.B.9)	21
3.3. Roanoke River PCB TMDL Action Plan	24
3.3.1. PCB TMDL Implementation (Part II.B.9)	24

APPENDICES

[Appendix A: Documentation of Public Education and Outreach Activities](#)

[Appendix B: Documentation of Public Involvement Activities](#)

[Appendix C: List of Illicit Discharges](#)

Appendix D: Documentation of Land Disturbance Complaints

Appendix E: Documentation of Biennial staff training and Nutrient Management Plan implementation

TABLES

Table 1:	Summary of MS4 Program Plan Changes.....	2
Table 2:	High Priority Stormwater Issues.....	3
Table 3:	Public Input or Complaints and Responses.....	5
Table 4:	Public Involvement Activities Implemented.....	6
Table 5:	MS4 Program Plan BMP Measurable Goals for MCM #2.....	7
Table 6:	Illicit Discharges.....	8
Table 7:	MS4 Program Plan BMP Measurable Goals for MCM #3.....	9
Table 8:	Project(s) Not in Conformance with VESCP and Town Ordinance.....	10
Table 9:	Maintenance Activities Performed on Stormwater Management Facilities.....	12
Table 10:	MS4 Program Plan BMP Measurable Goals for MCM #5.....	14
Table 11:	Good Housekeeping Operational Procedures Developed or Modified.....	15
Table 12:	New SWPPPs Developed.....	15
Table 13:	SWPPPs Modified or Delisted.....	16
Table 14:	New Turf and Landscape Nutrient Management Plans.....	16
Table 15:	Training Events.....	17
Table 16:	MS4 Program Plan BMP Measurable Goals for MCM #6.....	17
Table 17:	Bacteria TMDL Action Plan Summary of Actions.....	19
Table 18:	Sediment TMDL Action Plan Summary of Actions.....	21
Table 19:	2020-2021 POC Reductions.....	23
Table 20:	PCB TMDL Action Plan Summary of Actions.....	24

BMP	Best Management Practices
DEQ	Virginia Department of Environmental Quality
ESC	Erosion and Sediment Control
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
TOC	Town of Christiansburg
VESCP	Virginia Erosion and Sediment Control Program
VSMP	Virginia Stormwater Management Program
VPDES	Virginia Pollution Discharge Elimination System
WLA	Wasteload Allocation

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1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

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

Permittee Name: Town of Christiansburg

Permit Number: VAR040025

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

The reporting period for which the annual report is being submitted:
July 1, 2021 - June 30, 2022

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

A signed certification as per Part III K

Printed Name: Randy Wingfield

Title: Town Manager

Signature: Randy Wingfield Date: 9-27-22

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

Include information for each annual reporting item specified in Part LE:

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

1.1. 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 #2 Public Involvement and Participation: Due to COVID-19 restrictions, some in-person public participation activities were either not allowed or restricted. As such, the program plan has been updated to include all COVID-19 restriction adjustments, as well as an expanded list of possible Public Involvement activities to better reflect the current options. Documentation for the MCM #2 Public Involvement activities for the reporting year are in Appendix B.

MCM #3 Illicit Discharge Detection and Elimination: The Town's monitoring, documentation, and enforcement procedures still need review, including documentation on land disturbance issues on non-regulated sites. The Program Plan and IDDE manual/MCM 4 SOPs may be amended to address this issue. Changes to enforcement are being looked at within the bounds of the current Town code. The Town has also hired additional staff and reallocated staff duties to better address these issues.

MCM #5 Post-construction Stormwater Management: The Town is still reviewing the Program Plan to evaluate a change to a targeted approach to inspecting the privately owned stormwater management facilities as detailed in the Town's 2020 update to the Sediment TMDL Action Plan. The Town has hired additional staff and all accessible privately maintained stormwater management facilities have been inspected in the last five years. The Town has caught up on most deferred maintenance to the Town owned/operated stormwater management facilities. Reporting year inspections were completed in early spring 2022 and maintenance has followed. The original delay in 2020 was communicated to DEQ and documented in the 2020 Annual Report. The program plan was updated in September 2022 to include this delay in maintenance and inspections.

MCM #6

Nutrient Management Plans: The program plan was updated in September 2022 to reflect changes in areas receiving nutrients. The Christiansburg Aquatic Center grounds are no longer being fertilized and were removed from the list. The Depot Park Field was determined to only have 0.5 acres fertilized and falls under the 1 contiguous acre requirement. This area was removed from the list. The Kiwanis Park ball fields are managed by the Town of Christiansburg under an agreement with the Kiwanis Club and a nutrient management plan is in place for those fields.

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	Education on special water quality concerns (PCBs)	Media materials	Article posted on the Town's Facebook page.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Education on special water quality concerns (E. coli)	Media & Traditional Written Material	Articles in the Christiansburg Connection newsletter and posted on the Town's website and/or Facebook page.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Education on Stream Health (Stream restorations, lawn care/sediment)	Media & Traditional Written Material	Articles in the Christiansburg Connection newsletter and posted on the Town's website and/or Facebook page.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Education on Stream Health (Stream restorations, lawn care/sediment)	Media & Traditional Written Material	Citizen Centric Report noting planned stream restorations. Disseminated via Facebook and available on paper at Town Hall and Christiansburg Rec Center	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

1,2, 3	Education on special water quality concerns, (E. coli, PCBs) and stream health (sediment)	Media and Traditional Written Materials	Public Stewardship blurb on back cover of the Town's 2021 Public Drinking Water Quality Report. Report disseminated on paper in Town Hall, via Town webpage, notifications in June 2022 utility bills.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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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 communications accomplished to the intended public audience indicated in the MS4 Program Plan? Yes (Effective) No (Ineffective)

If any communications were determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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 (Refer to Table 3) No Not Applicable

Table 3: Public Input or Complaints and Responses

Input/Complaint Illicit Discharges/Spills: 14 Reported Complaints and 2 Program Inputs

Response: Site visits by Town employee or Fire Department per Town's IDDE Manual. The 2 Program inputs were responded to with emails and phone calls.

Input/Complaint Land Disturbing Activities: 32 Reported Complaints

Response: Response by Environmental Inspector/Environmental Program Manager within 24 hours of complaint. Appendix D includes documentation of Land Disturbance 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://www.christiansburg.org/250/Stormwater-Information-and-Education>

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 4.

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

Table 4: Public Involvement Activities Implemented

Activity Description	Metric	Collaboration	Beneficial
Stream Monitoring Towne Branch Native Plant monitoring and remediation	Continue survey/remove invasive plants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Stream/Wetland Monitoring: Biodiversity survey at Diamond Hills stream restoration and wetlands	Report returned to Town of Christiansburg	Virginia Tech	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Restoration: Towne Branch Stream Cleanup in Depot Park on April 2, 2022	16 bags of trash, 11 participants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Restoration: Diamond Hills stream cleanup on April 16, 2022	10 bags of trash, 5 participants.	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Pollution Prevention: Regional Grass Roots Watershed Improvement Effort	Participation within the Town of Christiansburg (One entry for Towne Branch clean up)	Virginia Tech, Montgomery County, Town of Blacksburg	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Stream Monitoring: Save Our Streams monitoring group	Monitoring report returned to Town and SOS	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Educational Event: CAC FINS summer camp July 27, 2021	21 participants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Educational Event: Montgomery County Public Schools Stormwater Days 4/11/22/2022 and 4/12/22/2022	4/11: 309 7 th graders from Blacksburg Middle School, 4/11/22 309 7 th graders from Blacksburg Middle School, 4/12: 83 7 th graders from Auburn Middle School and 269 7 th graders from Christiansburg Middle School	Virginia Tech, Montgomery County, Town of Blacksburg	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Educational Event: Stormwater Information Booth at NRV Home Expo, April 9 and 10, 2022	1200 attendees. Polling by MS4 group indicated attendance from Christiansburg	Virginia Tech, Montgomery County, Town of Blacksburg	<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 4.

2.2.6. 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 #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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
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 posted to the webpage no later than 30 days after submittal to the department?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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

2.2.7. 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 responses Yes or Not Applicable?

Yes (Effective) No (Still effective, see below)

Additionally, the Program Plan was revised to provide more flexibility in selecting activities. The revised Program Plan was posted in September, 2022.

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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
 N/A (no additional outfalls) See Section 2.3.5. No outfalls were added, one may have been found. We are investigating if a pipe is an outfall or a remnant.

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

The number of outfalls screened during the reporting yard as part of the dry weather screening program is 63. This represents 43% 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 Table 6) Not Applicable (No illicit discharges)

Table 6: Illicit Discharges

Illicit Discharge See Appendix C

Part I.E.3.e(3)(a) Source: See Appendix C

Part I.E.3.e(3)(b) Date Observed & Date Reported: See Appendix C

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

Part I.E.3.e(3)(d) Investigation Resolution: See Appendix C

Part I.E.3.e(3)(e) Description of Follow-up Activities: See Appendix C

Part I.E.3.e(3)(f) Date Investigation Closed: See Appendix C

2.3.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 7.

Table 7: MS4 Program Plan BMP Measurable Goals for MCM #3		
BMP	Measurable Goal	Completeness Status
3.1	Was a GIS compatible shapefile submitted to DEQ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.1	Was written notification provided to any downstream adjacent MS4 of any known interconnection established or discovered during the permit reporting year?	X Yes _ Not Applicable (No new or discovered) <input type="checkbox"/> No
3.2	Were all reported or observed non-stormwater discharges eliminated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.2	Were inspections, surveillance, monitoring and enforcement procedures in response to all reports implemented?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.3	Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained?	<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 responses Yes or Not Applicable?

Yes (Effective) No (Investigations and corrective actions ongoing and/or completed outside reporting year) The Town has a recurring issue with petroleum odors in the storm drains near Town Hall, a mulch discharge issue in a subdivision and from a business, and a trash issue in at least two streams. These investigations are ongoing as solutions are sought. One report was not forwarded to VDOT. Additionally, multiple outfalls were discharging during dry weather screening. Monitoring continues into the 22-23 reporting year. The outfall at the Town's Public Works Operations Center that was thought to be completely closed off and removed in August 2020 was found to be discharging during a mapping effort in March 2022. Additionally, an older pipe was found that was not on the outfall map (it was not discharging). As such, the storm sewer system at the Public Works Operations Center will be remapped this winter to ensure accuracy. The Town is updating its tracking and documentation procedures. The Program Plan and IDDE manual/MCM 4 SOPs may be amended to address this issue. The Town has also hired additional staff and reallocated staff duties to better address these issues.

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.4. MCM #4: Construction Site Stormwater Runoff Control

2.4.1. Implementation of VESCP and Town 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.

Table 8: Project(s) Not in Conformance with VESCP and Town Ordinance	
Project Name:	NA
Explanation:	NA

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 1,398.

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 1.

The total number of Notices to Comply issued is 0.

The total number of Stop Work Orders issued is 1. There is one Stop Work Order still in effect from previous reporting years. There was one Stop Work Order from previous reporting years lifted.

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:

Did the Town implement a VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.5. MCM #5: Post-Construction Stormwater Management

2.5.1. Implementation of VSMP and Town 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 144

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 Not Applicable.

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 is 28.

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 (Being assessed) Not Applicable (No 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 9.

Table 9: Maintenance Activities Performed on Stormwater Management Facilities

Stormwater Management Facility	Significant Maintenance Activity
95 Ponderosa	<ul style="list-style-type: none">Removed tree
Falling Branch, Glade & Cullen	<ul style="list-style-type: none">Removed sediment, grass seed and straw
College & Depot Intersection	<ul style="list-style-type: none">Removed sediment, grass seed and straw
CIP 2 Smaller Pond	<ul style="list-style-type: none">Removed small trees, fixed minor erosion, grass seed and straw
Hans Meadow, 420 Village	<ul style="list-style-type: none">Removed brush, repaired erosion, grass seed, straw
Huff Heritage	<ul style="list-style-type: none">Removed brush, Trees, Fixed Fence, and filled groundhog Holes
Kamran, 355 Warren St	<ul style="list-style-type: none">Removed sediment, removed brush, grass seed, straw
Slate Creek Commons	<ul style="list-style-type: none">Filled in groundhog holes, remounted frame/cover
Warren Heights	<ul style="list-style-type: none">Fixed erosion, removed brush
Peppers Crossing	<ul style="list-style-type: none">Fixed minor erosion
R&W Subdivision	<ul style="list-style-type: none">Removed brush
Alder	<ul style="list-style-type: none">Removed brush

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 (All stormwater management facility information for stormwater facilities installed during the reporting year was submitted through the Virginia Construction Stormwater General Permit database. Emma Danz of DEQ facilitated the submittal of the Town's previously missing information to the Virginia Construction Stormwater General Permit database. The response was that this counted as our submission, but that the actual time frame for updating the database was unknown.)

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: NA No Not Applicable (No SWM facilities constructed or BMPs implemented.)

2.5.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 10.

Table 10: 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 owned and/or operated by the Town implemented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5.1	Was the inspection and maintenance program on privately owned 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 Town approved SWM plan?	<input checked="" type="checkbox"/> Yes <input 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 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective) No (Plan still effective, see 2.5.4 and 2.5.2 and below)

The Town is reviewing the Program Plan to evaluate a change to a targeted approach to inspecting the privately owned stormwater management facilities as detailed in the Town's 2020 update to the Sediment TMDL Action Plan.

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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 11) No Not Applicable (Not necessary)

Table 11: 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 with Part I.E.6.c during the reporting period:

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

Yes (Refer to Table 12) No Not Applicable (No new high priority facilities)

Table 12: New SWPPPs Developed

SWPPP Name	SWPPP Address

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 13) No Not Applicable (No illicit discharges)

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

Yes (Refer to Table 13) No Not Applicable (No delisted high priority facilities)

If “Yes” is checked above, the rationale is provided for any high priority facilities delisted in accordance with Part I.E.6.h during the reporting period in Table 13.

Table 13: SWPPPs Modified or Delisted

SWPPPs Modified/Delisted	Rationale for Delisting

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 14) 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 14.

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 14.

Table 14: New Turf and Landscape Nutrient Management Plans

Location	Total Acreages	Date Approved
NA, no new Nutrient Management Plans		

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 (Refer to Table 15) 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 15.

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 15.

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 15.

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 15.

Table 15: Training Events

Dates	# of Attendees	Training Objective
Month of June 2022	56	Good Housekeeping, IDDE for applicable Town staff exclusive of Parks and Recreation. Training done via video link as staff were available.

2.6.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 16.

Table 16: 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 (These are done monthly) <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 (No illicit discharges at high priority facilities.) <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 (No illicit discharges at high priority facilities.) <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"/> Not Applicable (No fertilizer applied) <input type="checkbox"/> No
6.5	Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file?	<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 responses Yes or Not Applicable?

Yes (Effective) No

The Program Plan is still effective. Two contracts lacked the Good Housekeeping terms and conditions. One was for two snack machines, and the Town utilized the vendor's forms due to the small dollar amount. The second was from the purchase of an excavator via a Sourcewell cooperative procurement agreement. The snack machines are unlikely to create an illicit discharge, and the excavator will be utilized under the Town's Good Housekeeping SOPs. The Town has not been able to obtain proof of certification for the mowing contract, which does include the option of spraying weeds in a limited area of sidewalk. This contract is up for renewal this fall and will be flagged to include certification if spraying is included.

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

3.0 TMDL SPECIAL CONDITIONS

3.1. Crab Creek and Upper Roanoke River 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:

A summary of actions conducted to implement each local TMDL action plan is provided in Table 17.

Table 17: Bacteria TMDL Action Plan Summary of Actions		
BMP	Measurable Goals	Completeness Status
1	Is education on special water quality concerns, specifically E.coli, addressed in the Town's Public Education and Outreach Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Were methodologies determined to assess the most effective structural and nonstructural best management practices to employ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Did employees receive IDDE training to enhance efforts to minimize illicit discharges?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Did the Town create an IDDE and construction site issue complaint link on the Town website to enhance public IDDE reporting capabilities?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	Did the Town develop a long-term capital and operating program to offset capital funding and operating costs associated with structural BMP installation and maintenance?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Are the legal authorities outlined in plan in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Is the FOG Ordinance in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8	Does the stormwater website contain FOG information?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (BMP revised in May 2020 revision.)
9	Was the pet waste disposal public education completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
10	Does the stormwater website contain IDDE reporting information?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11	Was the Crab Creek Interceptor Study completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

12	Was the Watershed Treatment Model spreadsheet's pet waste component used to quantify bacterial reductions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13	Have the locations of pet waste stations in public parks been mapped?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14	Have options for additional pet waste stations on public land been evaluated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15	Have educational materials or messaging been distributed at targeted public participation events?	<input checked="" type="checkbox"/> Yes (in 2019 and 2022 at NRV Home Expo dog waste collection bags were distributed. Events in 2020 and 2021 were canceled.) <input type="checkbox"/> No
16	Has a mapped based approach been used to evaluate sanitary sewer overflows in the Wilson Creek watershed within Town limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
17	Has implementation of the Crab Creek Interceptor Study continued?	<input checked="" type="checkbox"/> Yes (see below) <input type="checkbox"/> No
18	Has coordination with the WWTF occurred to provide web-based educational information to reduce FOG sewerage system disposal?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
19	Has a procedure been created to quantify connections made to sanitary sewer from sites previously using a septic system?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

The following actions have been completed under the Crab Creek Interceptor Study:

- Phase I of College Street construction
- College Street Sanitary Sewer Evaluation Survey
- Phase I of Silver Lake Interceptor construction
- We have nearly finished the Arrowhead Sewershed design and anticipate applying for funds through the State's ARPA Wastewater Funding program.

Additionally, we have completed:

- Construction of Phase I Silverlake is complete
- Phase II of Silverlake Interceptor is partially budgeted for FY23. We anticipate beginning construction early summer 2023 and finishing late 2023.

3.2. Crab Creek and Upper Roanoke River 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: A summary of actions conducted to implement each local TMDL action plan is provided in Table 18.

Table 18: Sediment TMDL Action Plan Summary of Actions		
BMP	Measurable Goals	Completeness Status
1	Did the Town implement SWPPPs for the Town Public Works Station (Station B)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Did the Town implement SWPPPs for the historic Town landfill?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Does the Town Code address Erosion and Sediment Control and Virginia Stormwater Management Program standards and permitting requirements?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Were methodologies determined to assess the most effective structural and nonstructural best management practices to employ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	Is education on special water quality concerns, specifically sediment, addressed in the Town's Public Education and Outreach Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Does the Town implement an ESC and VSMP Inspection and Enforcement Program for land disturbing activities?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Does the Town implement a Post-construction Inspection and Maintenance Program for structural BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Did the Town develop a long-term capital and operating program to offset capital funding and operating costs associated with structural BMP installation and maintenance?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Does the Town provide Good Housekeeping and Pollution Prevention Training to employees?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8	Did the Town create an IDDE and construction site issue complaint link on the Town website to enhance public IDDE reporting capabilities?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9	Did the Town participate in the development of the Crab Creek and Roanoke River Implementation Plans?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

10	Were street sweeping measurable goals implemented?	<input checked="" type="checkbox"/> Yes, ongoing, see below <input type="checkbox"/> No
11	Is the Diamond Hills Phase I Project implemented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12	Is the Diamond Hills Phase II Project implemented?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Removed BMP in May 2020 revision.)
13	Were neighboring MS4 coordination efforts implemented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
14	Was the railroad coordination efforts for funding a stream restoration project implemented?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (BMP removed in May 2020 revision.)
15	Was the Watershed Treatment Model spreadsheet used to evaluate sediment reductions associated with public and private BMPs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
16	Have sediment reduction calculations as applicable to the MS4 been completed for Diamond Hills, Blue Leaf and Towne Branch stream restorations?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
17	Has the Blue Leaf Stream Restoration sediment reduction credit been recertified?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (evaluation complete)
18	Have the Lomoor Channel and Christiansburg Industrial Park Detention Basin BMPs been installed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (see update below)
19	Has the Town submitted to the Department the anticipated end date by which the permittee will meet the WLA for sediment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
20	Has the Town developed a targeted approach to inspecting privately owned stormwater management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

The following actions have occurred in reference to the Street Sweeping BMP

- The Town contracted a study of possible ways to implement and quantify a targeted street sweeping/inlet cleaning program based on TMDL waste load allocations and the current Chesapeake Bay Program 2016 Street Sweeping Expert Panel Report in April 2021. Results obtained in July 2021. This information is under review.

- Lomoor Channel stabilization was under construction and close to completion as of June 30, 2022. The sewer realignment is complete and we have seen improvements with a steep reduction in pump station overflows in the area.
- Christiansburg Industrial Park Basin is in final design and fully funded. We anticipate constructing this in 2023.
- Blue Leaf Stream Restoration sediment reduction credit recertification inspection revealed significant maintenance needs and the Town is pursuing completing this maintenance.

A summary of quantifiable pollutant of concern reductions is provided in Table 19.

Table 19: 2020-2021 POC Reductions

BMP #10: Street Sweeping – Crab Creek

Required tons of material swept	27.57 tons
Estimated tons of material swept	426 tons
BMP #10: Street Sweeping – Roanoke River	
Required tons of material swept	22.9 tons
Estimated tons of material swept	84 tons

3.3. Roanoke River PCB TMDL Action Plan

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

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

A summary of actions conducted to implement each local TMDL action plan is provided in Table 20.

Table 20: PCB TMDL Action Plan Summary of Actions

BMP	Measurable Goal	Completeness Status
1	Was an evaluation on the substitution or addition of education on PCB sources and elimination as a high-priority water quality issue completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Was information included about PCB as a Pollutant of Concern in annual mailers that are attached to the annual drinking water quality information?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A (Mailers are no longer distributed.)
3	Did the Town participate in the New River TAC to advocate for consistent TMDL requirements across all town watersheds?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Did coordination occur with the town Public Works Wastewater Treatment Plant (WWTP) to gather information on potential PCB sources through the WWTP Industrial Waste Surveys?	X Yes <input checked="" type="checkbox"/> No
5	Was IDDE ordinance language researched at other localities for specific PCB prohibition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Was existing PCB-free purchasing ordinance language surveyed at other localities and evaluated for the potential to add such language to Town Code?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Were methods examined to determine historical land uses to identify potential legacy sources of PCBs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Removed BMP in May 2020 revision.)
8	Was the Montgomery Regional Solid Waste Authority (MRSWA) contacted regarding disposal of PCB products and the potential for partnership?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9	Was the Good Housekeeping SWPPP materials reviewed for potential revisions to more specifically address PCBs as a pollutant of concern?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

10	Were the properties identified in the 2016 Action Plan as needing to be investigated for significant sources of the Pollutant of Concern investigated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Were PCBs added to the staff Good Housekeeping/IDDE training?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12	Was the Montgomery Regional Solid Waste Authority contacted for updates to their Household Hazardous Waste collection and outreach efforts?	<input checked="" type="checkbox"/> Yes (They no longer have these events, but the Town has helped advertise the same event now held by the New River Resource Authority. See MCM 1 Facebook post for hazardous waste) <input type="checkbox"/> No
13	Was an outreach effort beyond that detailed in the MS4 program plan initiated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Appendix A: Documentation of Public Education and Outreach Activities



1,763

People reached 1

0% from boosted posts

1,763 organic

0 paid

38

Post engagements 1

6 reactions

5 on post

1 on shares

0 Comment

0 on post

0 on shares

2 shares

2 on post

0 on shares

30 clicks

14 photo clicks

1 link clicks

0 clicks to play

15 other clicks

Facebook

facebook.com/photo/?fbid=405131744982658&set=a.219490966880071

DID YOU KNOW?

WASTE MANAGEMENT

These items should not go in trash or recycling

- Varnishes
- Stains
- Cleaners
- Adhesives
- Oils
- Pesticides

Household Hazardous Waste Collection Sept. 10 | 10-2 pm.

Call (540) 674-1677 to make a disposal appointment.

June 30 ·

Are you planning a summer project that includes cleaning out a shed, garage, or basement you haven't touched in years? Please be aware that many common household materials like stains, varnishes, cleaners, adhesives, oils, and pesticides are considered hazardous waste and should not be placed in the garbage. Read the label to determine if it is a hazardous product. Words like "poison," "danger," "warning" or "caution" will alert you of the potential hazard. Please do NOT place these items in your regular household garbage or recycling.

Additionally, if the materials were manufactured prior to 1980, they may also contain PCBs. PCBs, or polychlorinated biphenyls, were commonly found in transformers and capacitors, fluorescent light ballasts, oils in motor and hydraulic systems, and other materials. PCBs may be released from these materials as they degrade or break. If remnants of this material land on the ground, it can allow PCBs to travel through runoff into storm sewers, streams, and rivers. Due to this pollution, some local rivers have fish consumption advisories. Learn more about these advisories at <https://tinyurl.com/VAFishConsumptionAdvisory>

The New River Resource Authority will be hosting its next Household Hazardous Waste disposal event on September 10 | 10am-2pm where hazardous materials can safely be disposed. Please call 540-674-1677 to make a disposal appointment. See less

See more of Town of Christiansburg, VA on Facebook

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COMMUNITY CORNER

Three New Councilmembers

On Tuesday, Dec. 13, three newly elected Christiansburg councilmembers were sworn-in for their terms beginning in January. Mayor Mike Barber was also sworn-in for a third term.



Congratulations to Casey Jenkins, Tim Wilson and Tanya Hockett!

Additionally, members of Town Council expressed their gratitude for the years of service from the three incumbents whose terms conclude at the end of December.



Thank you to Steve Huppert, Merissa Sachs and Brad Stipes!

To contact all members of Town Council, email towncouncil@christiansburg.org.

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Want to stay in the know?
Sign up for our Notify Me and Citizen Alert systems
to receive Town info via phone, text or email.
Notify Me: www.christiansburg.org/notifyme
Citizens Alert: www.christiansburg.org/alerts

IN THE KNOW

It's a new year! With that, many of you may have a resolution. Did you know that the Recreation Center and all its amenities are free to Christiansburg residents? Learn more at christiansburg.org/reccenter. Be sure to review the new 2022 collection calendar at christiansburg.org/collectioncalendar, which is also inserted in your bill. Unfortunately, though 2021 is behind us, the pandemic isn't over yet. The New River Health District and the Centers for Disease Control are recommending booster shots approved by the Food and Drug Administration for the vaccinated public. Learn more at NRVRoadtoWellness.com. Happy New Year, Christiansburg!

COMMUNITY HEALTH: PLEASE SCOOP THE POOP

Christiansburg has beautiful streams that provide recreational, aesthetic and health benefits for everyone to enjoy. However, these waterways are considered impaired, or overloaded, with E. coli. This means that the Town must take actions to monitor and reduce the bacteria levels present in the water as part of its Municipal Separate Storm Sewer System (MS4) program, which aims to improve overall water quality.

Many may not realize that a large contributor to waterway impairment is from the bacteria found in pet waste. When pet waste is left on the ground, it gets washed away by rain into stormwater drains and eventually carried out to streams in Town.

Studies by the Environmental Protection Agency (EPA) show that pet waste can contribute to nearly 20 percent of the bacteria found in waterways. The presence of this bacteria can be harmful to the health of residents and their pets.

So, please scoop the poop. This is an easy way to do your part to save yourself and your neighbors from harmful exposure to bacteria, and as an added bonus, it also keeps our community beautiful.

Bagged pet waste can be disposed with household trash, but if you're out walking through town, you can find these pet waste stations (pictured) in downtown, along trails and in our community parks. Be sure to thoroughly wash your hands, then log your efforts to keep our town safe at our MS4 Public Participation App at <http://arcg.is/1IC0aL0>.



THE PLACE TO BE.
CHRISTIANSBURG VA

Have a question? Let us know!
540-382-6128, ext. 1151
info@christiansburg.org
www.christiansburg.org

The Christiansburg Connection

Newsletter for the Town of Christiansburg

September/October 2021



COMMUNITY CORNER

Customer Updates

NEW PAYMENT SYSTEM

The Town is utilizing a new e-government software that will allow customers to pay real estate taxes, personal property taxes, business license fees and meals and lodging taxes online through self-service. Stay tuned to the Town's website to learn more about when the system will launch and how to utilize it.

PHONE TRANSACTION FEE REINSTATEMENT

The Town has reinstated its existing policy to charge a \$10 fee for phone transactions. All departments, including Finance, Building Inspections and Planning, will collect a \$10 fee from customers who choose to pay their balances over the phone.

WATER CUT-OFF POLICIES REINSTATEMENT

Payment is due on the first of each month. Any past due charges will appear on your most current utility bill. A penalty of 10% of the unpaid balance will be added to your account after the due date listed on your bill. To avoid disconnection, past due payments are due by the tenth of each month. Your most current utility bill will inform you of the date that services will be disconnected. If your payment is not received by 7:30 a.m. on the set date, service will be discontinued, and you will be charged a \$25 reconnection fee. Please note that failure to receive a bill does not exempt you from any penalties or additional charges. Please inform the Town of any mailing address, phone number or email address changes.

Follow us!
@CburgVAGov



IN THE KNOW

Fall is here, which means it's time for our annual Photo of the Year and Ornament Contests. Submit your favorite photo from the year at www.christiansburg.org/photooftheyear, and check out the contest rules for the handmade ornament contest at www.christiansburg.org/ornament. The Town is implementing a new e-government software that will allow customers to pay bills and taxes online through self-service. More details about the service coming soon, so stay tuned to the Town's website. On Oct. 18, there is a free VIN etching event at the Christiansburg Fire Department (110 Depot St.) from 3-6 p.m. Lastly, Fall Cleanup is from October 2 to October 15. Learn about what items the Town will collect and how to place them properly for pickup at www.christiansburg.org/cleanup. Happy Fall, Christiansburg!

VISIT CHRISTIANSBURG STREAM RESTORATIONS

TOWNE BRANCH

If you haven't visited Depot Park (250 Depot St. NE) recently, it is a great place to explore the Towne Branch stream restoration project. It is beautiful this time of year with native flowers blooming amongst the colorful fall foliage of native trees. Learn more about the restoration project and the local ecosystem from placards along the trail. Maybe even dip your toes in the stream to cool off from the fleeting days of summer.



"A Depot Park Stream Exploration" Photo by Tim Borkert, 2018 Christiansburg Photo of the Year Submission

DIAMOND HILLS

For a more immersive experience, visit the Diamond Hills stream restoration area (at the end of Scattergood Drive NW) where you can walk among the plants. The trees and unmowed buffer areas in both restorations are integral to the health of the stream. Many of our native fish, amphibians and benthic macroinvertebrates require cool water year-round; you won't find them in a sun-bathed stream. Additionally, the tall plants help slow down floodwaters, which causes the water to drop sediment on the floodplain. This puts the sediment back on the land and helps build healthy soils.

Reducing sediment in these streams is a requirement of the Town's Municipal Separate Storm Sewer System (MS4) permit. Stream restorations are one way to accomplish this goal while providing natural areas for residents to enjoy.

The Christiansburg Connection

Newsletter for the Town of Christiansburg

March/April 2022

GREEN BENEFITS TO GRASS & GARDENS

Spring is right around the corner, and so is the yard work that comes with it. Green grass and gardens are not only beautiful but also help prevent erosion.

Kids and pets trek through your yard? Consider organic mulches for high traffic areas.

Grass not growing? Try alternatives like moss for damp, shady places or native trees, shrubs or groundcover plants just about anywhere else.

Really want grass? Pick the right species for your needs. There are types of grass that don't need to be watered, grasses that only grow six inches, grass for high-traffic areas, grasses for almost anything except shade. Find more information at ext.vt.edu/lawn-garden.

Retaining soil and grass clippings on your yard keeps them out of storm drains and helps Christiansburg meet the goals set in its Municipal Storm Sewer System (MS4) permit.



The flower bed outside Town Hall requires moderate maintenance from Public Works and combats erosion.

SWIM MEETS

March 25-27 USA Swimming Eastern Zone Speedo Sectionals

April 22-24 USA Diving Region 2 Championships

April 29-May 1 H2Okie May Day Invite

UPCOMING COUNCIL MEETINGS*

March 8 at 7 p.m. April 12 at 7 p.m.

March 22 at 7 p.m. April 26 at 7 p.m.

*Meetings are held in Council Chambers at Town Hall. Opportunity to provide public comment in person will be provided; however, contactless comment methods are also available at christiansburg.org/publiccomment.

Never miss a meeting! Sign up for notifications at christiansburg.org/notifyme.

All meetings are recorded and posted to the Town's YouTube page at christiansburg.org/YouTube.

EVENTS CALENDAR

EVENTS IN APRIL

Spring Kickoff Festival:

Dancing Through the Decades

April 2 from 5-8 p.m.

in the Recreation Center parking lot

Ages 21 and older

Spring Cleanup

April 4-15 for FAQs about what items will be accepted during Spring Cleanup, please visit christiansburg.org/cleanupFAQ.

The Big Event at Virginia Tech

April 9 from 8 a.m. to 4 p.m. Residents interested in requesting a job to be completed during the Big Event, fill out a form at registration.vtbigevent.org/jobrequest.

NRV Home Expo

April 9 from 9 a.m. to 5 p.m.
April 10 from noon to 5 p.m.
at the Recreation Center

The Great Easter Egg Hunt

April 16 at Kiwanis Park
Ages 3-5 hunt at 10 a.m.
Ages 6-8 hunt at 10:15 a.m.
Ages 9-12 hunt at 10:30 a.m.
Ages under 3 hunt at 10:45 a.m.

Shred-A-Thon

April 26 from 3-6 p.m.
in the Recreation Center parking lot

UPCOMING OR RECURRING EVENTS

Car Seat Installation & Safety Checks

Each Tuesday and Thursday
from 9 a.m. to noon at the Police Station

Third Thursday of each month
from 4-6 p.m. at the Fire Station

Rockin' Main Street

May 14 from 5-9 p.m. on Main Street

Farmers Market

Each Thursday, beginning May 19 from 3-7 p.m. in the Recreation Center parking lot

Fins Summer Camp

Weekly June 6-Aug. 5
from 7:30 a.m.-5:30 p.m.
for rising students in grades 1-4
Registration is in person only beginning 10 a.m. April 2

AARP TAX ASSISTANCE

Did you know Parks and Recreation offers a free tax aide to help you with filing your taxes? Call 540-382-2349 during business hours to schedule an appointment.

SUMMER READING PROGRAM

Starting June 1, dive into Montgomery-Floyd Regional Library's Oceans of Possibilities Summer Reading Program! Track your reading online and win fantastic prizes. Be on the lookout for an upcoming calendar of events at mfrl.org!

Want to stay in the know?

Sign up for our Notify Me and Citizen Alert systems to receive Town Info via phone, text or email.
Notify Me: www.christiansburg.org/notifyme
Citizens Alert: www.christiansburg.org/alerts



THE PLACE TO BE.

CHRISTIANSBURG VA

Have a question? Let us know!
540-382-6128, ext. 1151
info@christiansburg.org
www.christiansburg.org

The Christiansburg Connection

Newsletter for the Town of Christiansburg

March/April 2022



COMMUNITY CORNER

Help Name the New Park

The Town needs your help narrowing the list of names for the new 63-acre park off of Peppers Ferry Road!

The Parks and Recreation Advisory Commission has pre-selected names for residents to choose their favorites for the park.

Visit Town Hall, the Aquatic Center or the Recreation Center to pick the best names from the list before March 28.

A permanent name will be voted on by Town Council soon after ballots close, so stay tuned!

Learn more about the park in the construction update to the right.



Follow us!
@CburgVAGov



Want to stay in the know?
Sign up for our Notify Me and Citizen Alert systems
to receive Town Info via phone, text or email.
Notify Me: www.christiansburg.org/notifyme
Citizens Alert: www.christiansburg.org/alerts



THE PLACE TO BE.
CHRISTIANSBURG VA

Have a question? Let us know!
540-382-6128, ext. 1151
info@christiansburg.org
www.christiansburg.org

Post overview

This view of your post may not represent exactly how it appears on Facebook's News Feed.

Post performance

There may be delays in stats reporting. To see the most up-to-date stats please go to your live post.

4,775

People reached

0% from boosted posts

4,775 organic

0 paid

388

Post engagements

30 reactions

17 on post

13 on shares

8 shares

7 on post

1 on shares

4 comments

4 on post

0 on shares

346 clicks

226 photo clicks

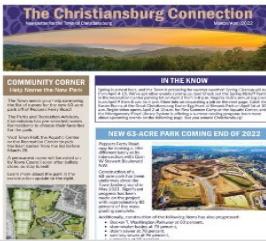
49 link clicks

0 clicks to play

71 other clicks

Town of Christiansburg, VA
March 3 ·

The March/April issue of the Christiansburg Connection newsletter is now available. Read it in the images below, in pdf format here: www.christiansburg.org/connection, or view a printed copy by mail with your utility bill.

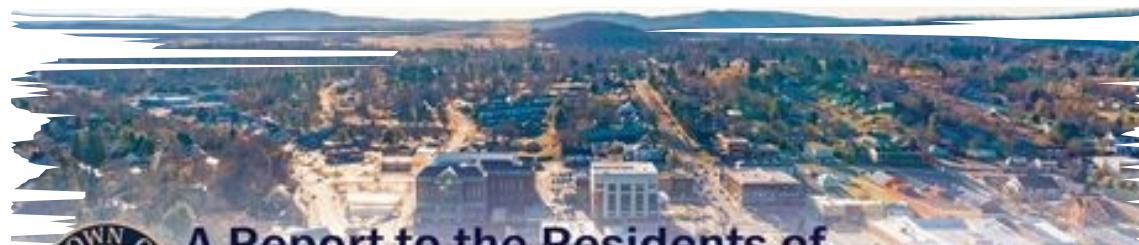


Boost post

See insights and ads

17

4 Comments 7 Shares



A Report to the Residents of CHRISTIANSBURG VA

Fiscal Year 2020-2021 • July 1, 2020 to June 30, 2021

OVERVIEW OF CHRISTIANSBURG 1
PERFORMANCE METRICS 2
FINANCIAL DATA 3
OUTLOOK 4

Photo by Bowling Creative Media

The Town of Christiansburg is tucked between the slopes of the Blue Ridge Mountains and the winding path of the New River and serves as the seat of Montgomery County in southwest Virginia.

23,348 residents
14.75 sq. mi.
4th largest town in VA

FY 19-20 \$60.5 M
FY 20-21 \$54 M
FY 21-22 \$80.7 M

The pandemic decreased spending in FY 20-21. The \$26.7 million increase in FY 21-22 reflects partial economic recovery, as well as construction of a 63-acre park on Peppers Ferry Road and other capital projects.

Council-Manager form of government
Contact
towncouncil@christiansburg.org

Town Council

Mayor	Vice Mayor	Councilman	Councilwoman	Councilwoman	Councilman	Councilman
Mike Barber	Henry Showalter	Sam Bishop	Johana Hicks	Tanya Hockett	Casey Jenkins	Tim Wilson

Financial Structure

The Town manages revenues and expenditures through various funds.

- **Capital Projects Fund**
grants and local, state and federal funds, as well as unassigned reserves
- **Cemetery Fund**
permanent fund from plot sales and funeral services
- **Enterprise Funds**
water and sewer services, as well as stormwater fees, respectively
- **General Fund**
property taxes, meals and lodging taxes, business licenses and solid waste collections
- **Special Revenue Fund**
federal and state grants, as well as other sources, that have restrictive use

2020 ACS USCB Est.

Population	Median Age	Median Household Income	Median Gross Rent	Bachelor's or Higher	Employment Rate
Christiansburg	23,348	39.0	\$63,372	\$941	40.4%
Montgomery	99,721	29.6	\$59,126	\$1,017	46.0%
Virginia	8,631,393	38.4	\$76,398	\$1,257	39.5%

Town Priorities

Christiansburg is committed to providing quality services and amenities to residents and visitors; to operating in an honest and transparent manner; and to supporting an environment where residents, businesses and community thrive.

Active destination for culture, recreation, entertainment, retail, commerce & service

Partner with businesses and residents

Clean & green, healthy & safe

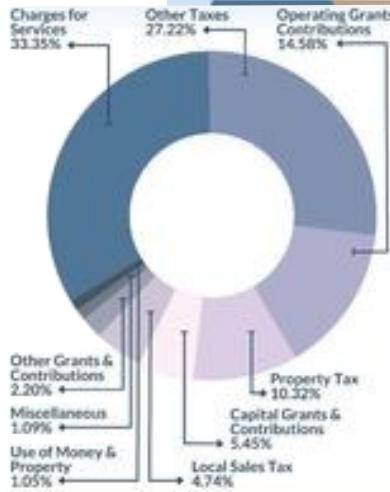
Good governance & sound financial entity

Well-informed & actively engaged residents

Everyone's hometown

FINANCIAL DATA

Fiscal Year 2020-2021 Percent of Actual Revenues

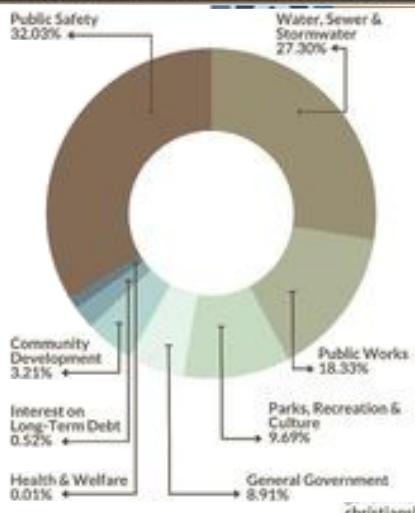


Revenues

	Actual FY 2019-2020	Actual FY 2020-2021	Percent Change	FY 2020	FY 2021
Charges for Services	\$17,391,554	\$16,705,228	-4.11%	33,750 ¹	59,865 ²
Other Taxes	13,479,534	13,629,457	1.10%	1,536 ¹	1,142 ¹
Operating Grants & Contributions ¹	4,898,509	7,305,236	32.93%	57,195 ¹	4,564 ¹
Property Tax	4,941,041	5,167,035	4.37%	127	104
Capital Grants & Contributions ¹	9,533,779	2,730,254	-249.19%		
Local Sales Tax	2,142,903	2,371,546	9.64%	FY 2020	FY 2021
Other Grants & Contributions	1,168,304	1,102,072	-5.61%	847	967
Miscellaneous	441,309	545,312	19.04%	4,511	4,527
Use of Money & Property ¹	882,396	526,196	-47.69%	22,651	23,344
Total	\$54,879,529	\$50,082,406	-9.58%	3.5 M gal.	3.8 M gal.

1. Increase due to funding received from the Coronavirus Relief Fund.
2. Decrease due to the completion of several large projects, which resulted in lower capital grants in FY 2020-2021.
3. Increase due to lower interest rates on bonds.

Fiscal Year 2020-2021 Percent of Actual Expenditures



Expenditures

	Actual FY 2019-2020	Actual FY 2020-2021	Percent Change	FY 2020	FY 2021
Public Safety	\$10,735,137	\$12,747,192	15.78%	111,107	296,261
Water, Sewer & Stormwater	10,284,603	10,867,704	5.37%	59,940	134,371
Public Works ¹	9,125,433	7,292,765	-25.13%		
Parks, Recreation & Culture ¹	5,050,766	3,857,202	-30.94%	FY 2020	FY 2021
General Government	3,368,719	3,547,209	5.03%	13	19
Community Development ¹	3,080,724	1,278,181	-141.02%	142	97
Interest on Long-Term Debt	212,732	206,390	-3.07%		
Health & Welfare	4,494	4,719	4.77%		
Subtotal	\$41,862,608	\$39,801,362	-5.18%	\$20.6 M	\$21.2 M
Capital Expenditures	18,845,517	9,590,437	-46.50%	\$13.2 M	\$12.7 M
Total	\$60,708,125	\$49,391,799	-22.91%	\$5.9 M¹	\$5.9 M

1. Decrease due to staffing shortages from the pandemic.
2. Decrease due to limited programs and events because of COVID-19 restrictions.
3. Previous fiscal year included one-time performance payment for Marketplace shopping center accounts to long-term investments.

General Fund Expenditure Comparison

	Budget	Actual	% Change
FY 2018-2019	\$30,013,112	\$25,038,426	-19.87%
FY 2019-2020	\$32,482,244	\$26,347,893	-23.28%
FY 2020-2021	\$31,412,215	\$24,714,333	-27.10%

The Town of Christiansburg strives to maintain sound financial management. The Town Manager ensures that program and service priorities of the Town's elected officials are carried out within fiscal and legal constraints. By improving the planning, implementation and performance of program objectives, the Town safeguards assets, promotes operational efficiency, manages fiscal policies and provides accurate reporting and analysis. Town Council prioritizes Christiansburg residents and a quality of life that promotes a sense of community and an environment that attracts and expands its businesses. For more, read the Town of Christiansburg's 2020-2021 Annual Comprehensive Financial Report at www.christiansburg.org/AnnualReport.

FY 2020	FY 2021
\$210	\$55 ¹
1,717	1,570
3,178 ft ²	6,789 ft ²

¹On of the Neighborhood Services Department's projects in the Franklin St. Corridor. ²As affected by capital projects.

OUTLOOK

The COVID-19 pandemic severely restricted meals and lodging revenues throughout 2020 and early 2021 with a 15 percent reduction in meals tax and a 60 percent reduction in lodging tax. These two sources of revenue are the most vulnerable to economic downturns and make up approximately 16 percent of Town revenues. As the restrictions of the pandemic began lifting in March 2021, these revenues began to rebound, and we are seeing stronger numbers through 2021 and 2022. The economic recovery is still strong, although impeded by supply chain issues and employee hiring challenges; we expect a return to growth in our revenue streams. The housing market boom and new construction have increased real estate valuations throughout Montgomery County and resulted in increased revenue. We continue to be somewhat conservative in our projections of revenue and maintain our strong policy on fund balance to insure the ability to weather economic downturns and improve our infrastructure, all the while maintaining services to residents and construction of capital projects. Learn more at christiansburg.org/CapitalProjects.

Projects Completed in 2021



LED Marque Signs

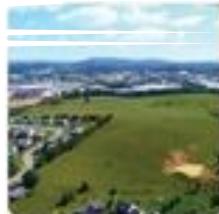
Duration: Winter 2020
Three LED marque signs were installed at Town Hall, between the Fire and Rescue Stations, and the Recreation Center to communicate messaging to residents and were funded by the CARES Act. An additional sign was later installed at the Aquatic Center and funded by the Town.



Restrooms at Parks

Duration: Winter 2020 to Spring 2021
Depot Park and Circle Park had public restrooms installed funded by the CARES Act, which will provide sanitation opportunities for visitors, as well as increase access to these parks. An Eagle Scout also completed a project building a picnic shelter at Depot Park in fall 2020.

Projects Planned for 2022



Signature Park

Duration: Spring 2021 to Winter 2022/23
A 63-acre park off Peppers Ferry Road with four full-sized rectangular fields, two picnic pavilions, a splash pad, a small and large dog park, an inclusive playground, an adult fitness zone, a challenge course, nearly two miles of trails, and green space for passive recreation.



Stream Restoration

Duration: Fall 2022 to Fall 2023
Christiansburg Industrial Park Stream Restoration and Basin Retrofit will reduce the amount of sediment pollution going to the Roanoke River as part of the state required sediment reductions. Photo is of the Towne Branch Restoration at Depot Park.

Get Involved in Local Government

We want to hear from our residents. Share your questions and comments on this report and other Town businesses at the following contacts.

EMAIL THE TOWN MANAGER
cwingfield@christiansburg.org

WATCH MEETINGS
christiansburg.org/YouTube

EMAIL THE TREASURER
vtweedie@christiansburg.org

SUBMIT A PUBLIC COMMENT
christiansburg.org/PublicComment

Follow Us!



[@CburgVaGov](https://www.twitter.com/CburgVaGov)



This report is intended to provide meaningful and understandable information about the financial condition and performance of its government to its citizens. For more information, visit AGA on the web at asaccfim.org.

Helpful Links

TOWN OF CHRISTIANSBURG

christiansburg.org

MONTGOMERY COUNTY

montgomerycountyna.gov

ANNUAL BUDGET

christiansburg.org/Budget

NOTIFY ME

christiansburg.org/NotifyMe

CITIZENS ALERT

christiansburg.org/Alerts

ANNUAL COMPREHENSIVE FINANCIAL REPORT

christiansburg.org/AnnualReport

2,172

People reached 

0% from boosted posts

2,172 organic

0 paid

331

Post engagements 

16 reactions

15 on post

1 on shares

0 Comment

0 on post

0 on shares

5 shares

5 on post

0 on shares

310 clicks

206 photo clicks

16 link clicks

0 clicks to play

88 other clicks

facebook

Town of Christiansburg, VA

Intro

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www.christiansburg.org/CCR

Town of Christiansburg, VA

May 31

Want to learn a little more about the Town of Christiansburg? The Citizen Centric Report (CCR) for Fiscal Year 2020-2021 is now available! The CCR provides information about the Town's structure and demographics, program and service performance results, end-of-year financial data, and provides an outlook on the future of the Town. Physical copies of this report are available at the Rec and Aquatic Centers, as well as at Town Hall. You can also view a pdf version here: www.christiansburg.org/CCR.

A Report to the Residents of CHRISTIANSBURG VA

Fiscal Year 2020-2021 • July 1, 2020 to June 30, 2021

23,348 residents
34.75 sq. mi.
4th largest town in VA

PERFORMANCE METRICS

FY 19-20: \$60.9 M
FY 20-21: \$54.6 M
FY 21-22: \$80.7 M

Council-Manager form of government
Contact: TownManager@christiansburg.org
Town Council: TownCouncil@christiansburg.org

Financial Structure

Capital Projects Fund

Town of Christiansburg 2021 Drinking Water Quality Report published June, 2022



THE PLACE TO BE.
CHRISTIANSBURG VA

2021 DRINKING WATER QUALITY REPORT



TABLE OF CONTENTS

A Note from the Town Manager	1
Treatment Plant Information	2
About Your Water	3
Health Information	4
Sampling Results	5
Public Stewardship	7

A NOTE FROM THE TOWN MANAGER



Every year, our water systems undergo extensive testing to ensure our drinking water is safe. The results of these tests, performed during the 2021 calendar year, demonstrate that our drinking water is safe and meets all federal and state requirements.

It is important to me that residents are fully informed about the quality of their drinking water. This report covers test results, general information about the drinking water and drinking water treatment plant, and additional resources the public may find useful.

If you have further questions, please contact the Town's Engineering Director Mike Kelley at 540-382-6120.

Sincerely,

A handwritten signature in black ink that reads "Randy Wingfield".

Randy Wingfield, Town Manager

TREATMENT PLANT INFORMATION



Above: Residents tour the sedimentation basins at the NRV Regional Water Authority's treatment plant.

The NRV Regional Water Authority (NRVRWA) owns and operates a water treatment plant capable of processing 12.4 million gallons per day, as well as two raw water pump stations located near the New River. The NRVWRWA is a bulk supplier and provides finished water to the Town of Blacksburg, Town of Christiansburg, Virginia Tech and Montgomery County. This means the NRVWRWA services an estimated population of 70,000.

The original raw water intake and water treatment plant were constructed in 1957 with a capacity of 4.1 million gallons per day. In 1968, the water treatment plant capacity was expanded to 10 million gallons per day, and a raw water booster pump station was also constructed. In 1977, the water treatment plant capacity was again expanded to its current capacity of 12.4 million gallons per day, and a new raw water intake was added. Minimal upgrades and improvements have taken place since 1977, with the majority of work being routine maintenance and replacement.

The NRVWRWA completed a comprehensive evaluation of its existing raw water pumping facilities and the water treatment plant in 2016. The evaluation concluded that the facilities required a number of upgrades to maintain a safe work environment, improve efficiency and continue providing high quality water to customers. The raw water pumping facilities and water treatment plant began major renovations in 2020 that will take more than two years to complete. These renovations will enable the Authority to continue to provide high quality water to its customers for years to come.

The NRVWRWA has completed two projects that expanded service to its members. These projects provide redundant feeds to members, so in the event of a malfunction or failure of critical infrastructure, there are alternate routes and systems to deliver water to NRVWRWA members.

ABOUT YOUR WATER

Christiansburg is a member of the NRV Regional Water Authority (NRVRWA), which provides the Town of Christiansburg with drinking water sourced from the New River. The NRVRWA treats surface water obtained from the New River using conventional treatment methods such as coagulation, flocculation, sedimentation, filtration and, finally, disinfection. The water is pumped from the treatment system through a network of pipes to storage tanks, where it is then distributed to your tap. The Town of Christiansburg operates and maintains four pump stations, four water storage tanks and 150 miles of water main lines. On average, the Town delivers over 2.3 million gallons of drinking water to residences and businesses each day.

In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations that limit the amount of certain contaminants in water provided by public systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells.

Drinking water, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 800-426-4791.

Possible contaminants include:

- *Microbial Contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.
- *Inorganic Contaminants*, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- *Pesticides and Herbicides*, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- *Organic Chemical Contaminants*, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban runoff, and septic systems.
- *Radioactive Contaminants*, which can be naturally occurring, or the result of oil and gas production and mining activities.



HEALTH INFORMATION

Vulnerability to Contaminants

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, the elderly and infants can be particularly at risk for infections. These people should seek advice about drinking water from their healthcare providers.

A source water assessment was conducted in 2002 that determined the New River to be highly susceptible to contamination. This is common of other water systems in Virginia when the source is from surface waters. Information from this report may be obtained through the NRVRWA (www.nrvwater.org).

Lead in Homes

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing.

The Town of Christiansburg is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. If your water has been sitting for several hours, you can minimize the potential for lead exposure by running your tap for 30 seconds to 2 minutes before using water for drinking and cooking.

If you are concerned about lead in your water, you may have your water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800-426-4791 or at tinyurl.com/EPALeadInWater.



SAMPLING RESULTS

The NRV Regional Water Authority and the Town of Christiansburg routinely monitor contaminants in your drinking water according to federal and state laws. The tables below list all of the drinking water contaminants that are applicable for the calendar year of this report.

The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change.

Regulated Contaminants*

Contaminants (units)	MCLG or MRDLG	MCL, TT or MRDL	Level Detected	Range (lowest - highest)	Violation	Typical Sources
Nitrite and Nitrate ¹ (ppm)	10	10	0.85	N/A	No	Runoff from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Haloacetic acids [HHA5] (ppm)	N/A	60	30	9.8 - 43	No	Byproduct of drinking water disinfection
Total Trihalomethanes [TTHM] (ppm)	N/A	80	36	9.3 - 61	No	Byproduct of drinking water disinfection
Total organic carbon (removal ratio)	N/A	TT in compliance if ≥ 1.0	1	1	No	Naturally present in the environment
Barium ² (ppm)	2	2	0.023	N/A	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chlorine (ppm)	4	4	3.16	0.60 - 3.90	No	Water additive to control microbes
Turbidity (NTU) ³	N/A	TT, 1 NTU max TT, ≤ 0.3 (95% of the time)	0.18, 100% of the time	0.08 - 0.18	No	Soil runoff
Fluoride ⁴ (ppm)	4	4	0.60	N/A	No	Erosion of natural deposits; discharge from fertilizer and aluminum factories

*These tables only show those contaminants that were detected in the water.

¹Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.

²Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.

³Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The EPA requires that we report the highest single turbidity result measured during the year.

⁴Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Children may get mottled teeth.

Lead & Copper Contaminants*

Contaminants (units)	MCLG	Action Level	Amount Detected (90 th Percentile)	Sample Date	Violation	Sites above action level	Typical sources
Copper (mg/L)	1.3	1.3	0.0531	Aug. 2020	No	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead ⁵ (ppb)	0	15	<2 ⁶	Aug. 2020	No	0	Corrosion of household plumbing systems, erosion of natural deposits

*These tables only show those contaminants that were detected in the water.

⁵The Town of Christiansburg participates in lead and copper monitoring every three years with the Town of Blacksburg and Belview distribution systems.

⁶The 90th percentile was below the detection limit of 2 ppb.

SAMPLING RESULTS CONT.

Unregulated Contaminants*

Contaminant (unit)	Level Detected	Sample Date	Typical Sources
Sodium ¹	10.5 mg/L	March 2021	Naturally occurring; Addition of treatment chemicals/processes

*These tables only show those contaminants that were detected in the water.

¹ For individuals on a very low sodium diet (500 mg/day), EPA recommends not to drink water that exceeds 20 mg/L. Should you have a health concern, contact your healthcare provider.

Definitions

The following definitions may assist in understanding the results tables.

- **Maximum Contaminant Level Goal (MCLG)** is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **Maximum Contaminant Level (MCL)** is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- **Maximum Residual Disinfectant Level Goal (MRDLG)** is the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **Maximum Residual Disinfectant Level (MRDL)** is the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Treatment Technique (TT)** is a required process intended to reduce the level of a contaminant in drinking water.
- **Violation** means that the level of a contaminant or disinfectant in your drinking water has exceeded the maximum level allowed by the EPA.
- **Action Level** means the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that an owner shall follow.
- **PPB (parts per billion)** means one part substance per billion parts water (or micrograms per liter).
- **PPM (parts per million)** means one part substance per million parts water (or milligrams per liter).

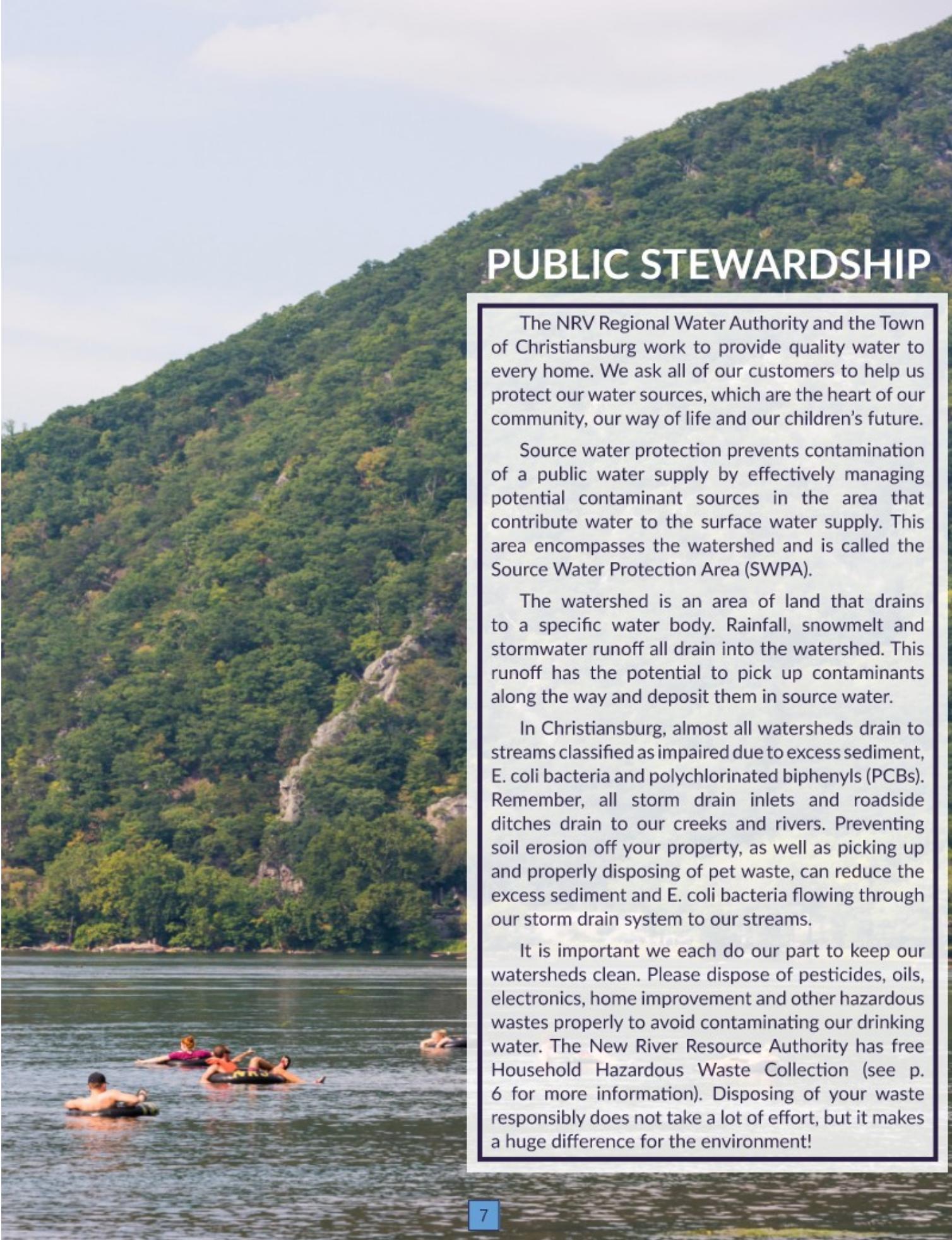
Sodium is an essential element required for normal body function, including nerve impulse transmission, fluid regulations and muscle contraction and relaxation. However, in excess amounts, sodium increases individual risk of hypertension, heart disease and stroke. One of the chief sources of sodium is the consumption of salt; therefore, salt restrictions are often recommended as a first line of treatment for individuals suffering from these conditions.

Additional Resources

- Attend an NRV Regional Water Authority meeting. Community members are welcome to attend NRVRWA meetings, which are held virtually at 4 p.m. every third Wednesday of the month. Please contact Caleb Taylor at 540-639-2575 to participate in a meeting.
- Take a tour of the water treatment plant. To schedule a tour, please contact Executive Director Caleb Taylor at 540-639-2575.
- Dispose of household hazardous waste. Please dispose of these items at one of the New River Resource Authority's Household Hazardous Waste Collection events. Learn more by calling 540-674-1677 or visiting www.newriverresourceauthority.org.
- Learn more. If you have questions about this report, please contact the Engineering Department at 540-382-6120. For more information about water in the New River Valley, please visit www.nrvwater.org.

The EPA (www.epa.gov/Your-Drinking-Water) and the Centers for Disease Control and Prevention (www.cdc.gov/healthywater/drinking) websites offer a substantial amount of information on many issues related to water resources, water conservation and public health.

The Virginia Health Department's Office of Drinking Water (www.vdh.virginia.gov/ODW) provides current information on water issues in Virginia, including valuable information about our watershed.



PUBLIC STEWARDSHIP

The NRV Regional Water Authority and the Town of Christiansburg work to provide quality water to every home. We ask all of our customers to help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Source water protection prevents contamination of a public water supply by effectively managing potential contaminant sources in the area that contribute water to the surface water supply. This area encompasses the watershed and is called the Source Water Protection Area (SWPA).

The watershed is an area of land that drains to a specific water body. Rainfall, snowmelt and stormwater runoff all drain into the watershed. This runoff has the potential to pick up contaminants along the way and deposit them in source water.

In Christiansburg, almost all watersheds drain to streams classified as impaired due to excess sediment, E. coli bacteria and polychlorinated biphenyls (PCBs). Remember, all storm drain inlets and roadside ditches drain to our creeks and rivers. Preventing soil erosion off your property, as well as picking up and properly disposing of pet waste, can reduce the excess sediment and E. coli bacteria flowing through our storm drain system to our streams.

It is important we each do our part to keep our watersheds clean. Please dispose of pesticides, oils, electronics, home improvement and other hazardous wastes properly to avoid contaminating our drinking water. The New River Resource Authority has free Household Hazardous Waste Collection (see p. 6 for more information). Disposing of your waste responsibly does not take a lot of effort, but it makes a huge difference for the environment!

Appendix B: Documentation of Public Involvement Activities

Towne Branch Master Naturalist exotic invasive plant removal-sample correspondence

From:	Beth Umberger < megachile300@gmail.com >
Sent on:	Tuesday, March 29, 2022 5:01:07 PM
To:	Dianna Bridges < dianebridges103@comcast.net >
CC:	MN Isabelle Porter < ayegporter@gmail.com >; Patricia Colatosti < pcolatosti@christiansburg.org >
Subject:	Re: Depot Park
Follow up:	Follow up
Start date:	Tuesday, March 29, 2022 12:00:00 AM
Due date:	Tuesday, March 29, 2022 12:00:00 AM

Hi Isabelle,

Fred, Mary Rhoades, and I irregularly work on Thursday mornings at Depot Park. It is best to as us when we will be there. We sometimes change the hours as well to accommodate weather conditions. We usually go on Thursday morning. We remove invasive plants and I plant natives before periods of rain. I have picked up a lot of glass, especially after a hard rain. There is an area that was used long ago to dump trash upstream on private property that is on the edge of the stream. I saved the pottery and broken glass two summers ago and had it sorted, but since it is not in situ was not useful as historical information for the Montgomery Museum. Fred has installed three blue bird houses at the park. They will need monitoring. Lots of educational opportunities. Conversations with people in the park. There is a bulletin board there that would be a perfect place to post pictures of plants in bloom with insects on them with both identified. We could also post life cycles of some of the insects in the park. Birds used the park as well. Mary Rhoades found a native lady bug on poison hemlock(invasive). That lady bug population is in decline. But the poison hemlock was also home to non-native lady bugs. We are removing poison hemlock a biennial, but looks like we need to find a member of the carrot family to replace it as a host for the lady bugs.

In order to work officially removing invasive plants, you need to sign a release form with the town of Christiansburg. Depot Park has a rich history, we took our children there occasionally before it was developed into a park. They have managed to improve access to the stream and increased the quality, even though much still needs to be done.

I added Patricia to this email. She is our town environmental engineer and works on improving the quality of Crab Creek and its tributaries.

This Thursday it looks like rain. But we will be there next Thursday from 9 to 11.

Over time we will be phasing out or reducing our time in Stadium Woods and start working in our own backyard. More than you wanted to know. Glad to have all the young couples in Christiansburg who are in tune with the environment,

Beth Umberger
540-830-9968

On Tue, Mar 29, 2022 at 7:39 AM Dianna Bridges <dianebridges103@comcast.net> wrote

Beth

Isabella is a new student in 2022 class and asked me to reach out to you. She goes to Depot Park all the time with her young daughter and wants to help out with invasive. She picks up the trash now when she is there. She is included on the email so you have her email to touch base.

Isabelle,

Beth is a wealth of knowledge and you will learn a lot about plants working with her. Her husband is Fred and usually accompany her. Great people to know.

Stay healthy, get outside and enjoy the fresh air!

Dianna Bridges
Training Coordinator
Virginia Master Naturalist / New River Valley
nrvmasternaturalists.com
nrvmn.info@gmail.com

“Of all the paths you take in life, make sure a few of them are dirt”- John Muir

From:	Patricia Colatosti pcolatosti@christiansburg.org
Sent on:	Friday, June 17, 2022 8:40:52 PM
To:	Beth Umberger megachile300@gmail.com
Subject:	RE: fish mound in Old Towne Branch

These are great. Keep sending them. I may try to publish them in the Christiansburg Connection or on a Facebook post with your permission. We do not have to cite who the photo is from as long as we have your permission to use it. And I will ask in reference to a specific article before using any of them.

Thanks,
Patricia

Patricia Colatosti

Environmental Program Supervisor
Town of Christiansburg
100 E. Main St
Christiansburg, VA 24073
540.382.6120 ext. 1157

From: Beth Umberger megachile300@gmail.com
Sent: Monday, June 13, 2022 2:48 PM
To: Michael Pinder <Mike.Pinder@dwr.virginia.gov>; Patricia Colatosti <pcolatosti@christiansburg.org>
Subject: fish mound in Old Towne Branch

Hi,
I saw this mound about a month ago, but no fish at that time. I saw these yesterday. I took video, but it was too large to send. Bed Bellied Mountain Dace? and at least another fish. Lots of minnows upstream.
We also saw a queen snake sunning on foliage about 1/2 to 2 feet off the ground staying there for at least 2 hours.
We showed the snake to two families in the park and one of the fathers said he had seen a river otter this week downstream from the area we were in.
Good job Christiansburg!
Beth

From:	Bonnie J. Smith iaonte@yahoo.com
Sent on:	Thursday, April 21, 2022 3:25:59 PM
To:	Beth Umberger < megachile300@gmail.com >; Patricia Colatosti < pcolatosti@christiansburg.org >
Subject:	Re: Introducing Bonnie

Thanks, Beth! Please, may I clarify: You're going to Depot Park (near Kroger, on up the stream from where we cleaned up 3 weeks ago) THIS Sunday, 9-11, correct? Thanks.

And, hello Patricia! Are you the same Patricia who was at the first creek cleanup this year? If so, hello again - if not, I look forward to meeting you soon.

Thanks to both - see you soon.

Bonnie

On Thursday, April 21, 2022, 08:47:23 AM EDT, Beth Umberger <megachile300@gmail.com> wrote:

Hi Patricia,

Bonnie is training to be Master Naturalist and is interested in removing invasive plants and working on organizing groups to work there. She worked on the trash clean up a few weeks ago.

I am going to Depot Park on Thursdays from 9 to 11 and every other Sunday starting this Sunday from 9 to 11 (that is when Isabelle can come).

Lots of interest in the park! I do not consider myself a leader of this project. But I am willing to teach what I know about the plants that are invasive. I am planting natives in places that become bare spots.

I planted Dutchman's Breeches in a little shady spot that I find intriguing recently. It will seed around if happy. Removing the garlic mustard trying to outcompete moss in that spot.

Headed to Depot Park,

Beth

From:	Mara < emmsmee@gmail.com >
Sent on:	Sunday, May 29, 2022 7:06:09 PM
To:	Beth Umberger < megachile300@gmail.com >; Sandy Weber < sandywebern@gmail.com >
CC:	Sawdon, Rosemarie < sawdon@msn.com >; MN Isabelle Porter < ayegporter@gmail.com >; Patricia Colatosti < pcolatosti@christiansburg.org >
Subject:	Re: New Project at Depot Park invasive removal?
Follow up:	Follow up
Start date:	Tuesday, June 7, 2022 12:00:00 AM
Due date:	Tuesday, June 7, 2022 12:00:00 AM

Beth,

Thanks for sending this on to me, sounds like a great volunteer opportunity. I am forwarding this to Sandy Weber, head of the projects committee. Sandy, perhaps you could add this to the weekly email and/or bring it up at the next projects committee meeting.

Mara

On Sun, May 29, 2022 at 11:58 AM Beth Umberger <megachile300@gmail.com> wrote:

Hi Rosemarie and Mara,

Isabelle Porter has been working with me to remove invasive plants at Depot Park the last few weeks. She is interested in starting a project for Master Naturalists at this site in Christiansburg removing invasive plants. Other Master Naturalists have expressed interest in working at Depot Park.

I am not the official leader, there is none at this point. I have learned not to take on new tasks at this point, but Fred and I come on most Thursday mornings and I am coming on Sunday mornings to get Isabelle familiar with the plants that need removing.

A great place to interact with people and many educational opportunities.

Isabelle is interested in setting up activities with children in Depot Park.

Thanks,

Beth

Towne Branch Stream Clean up

From: Patricia Colatosti <pcolatosti@christiansburg.org>

Sent: Monday, April 4, 2022 2:54 PM

To: Terry Caldwell <tlcaldwell@christiansburg.org>; Brad Epperley <bepperley@christiansburg.org>

Cc: Amy Southall <asouthall@christiansburg.org>; Christina Edney <cedney@christiansburg.org>; Justin St. Clair <jstclair@christiansburg.org>

Subject: Towne Branch Clean up April 2 residual trash

The stream clean-up was a success! We had 11 volunteers and collected 16 bags of trash and some other assorted very large pieces of trash. The large pieces are still sitting on the grass in Lot F and one in the skate park. I will contact Public Works to come pick them up.

In the CAC lot: rusty crumpled metal roof pieces, a long, heavy metal strap, and a long blue industrial type hose

In the Skate Park: There is an I-beam behind a trash can that may have come from the skate park, it was in the stream directly below the skate park. Also we put a shop vac lid and a bunch of the lighter trash bags in the trash cans at the skate park.

I will forward pictures to Amy and Christina. Six people said they came because they saw it posted on the LED signs at the CAC and Town Hall!

Thanks,

Patricia

Patricia Colatosti

Environmental Program Supervisor

Town of Christiansburg

100 E. Main St

Christiansburg, VA 24073

540.382.6120 ext. 1157



Diamond Hills Stream Clean up

On Thu, Apr 28, 2022 at 10:10 AM Patricia Colatosti <pcolatosti@christiansburg.org> wrote:

Nicole,

Here are the numbers for our spring stream cleanups:

April 2, 2022, Towne Branch at Depot Park:

- 2000 linear feet of stream cleaned up in 2 hours
- Eleven participants
- 16 large bags of trash and assorted large items (4 ft I-beam, one long industrial hose, one metal industrial barrel hoop)

April 16, 2022, Diamond Hills Stream Restoration at Independence Blvd

- About 800 linear feet of stream and associated wetlands and flood plain cleaned in 2 hours
- Five participants
- 10 large bags of trash and a kiddie pool

Given the feedback I am planning on doing this again in late fall, after a killing frost. And also am looking into setting up a “do-it-yourself” clean up station in Depot Park for people to participate all summer. I liked the bumper sticker idea, but I was thinking maybe magnets as a draw if you send us a picture.

Patricia Colatosti

Environmental Program Supervisor

Town of Christiansburg

100 E. Main St

Christiansburg, VA 24073

540.382.6120 ext. 1157



Regional Grass Roots Watershed Improvement Effort

The current map is available at <https://data-montva-gis.opendata.arcgis.com/apps/scoop-the-poop/explore> and <https://data-montva-gis.opendata.arcgis.com/maps/ms4-grassroots-watershed-improvement-activities-map/explore?location=37.106884%2C-80.336750%2C12.00>

The Town of Christiansburg has promoted this effort primarily as a Pollution Prevention activity and published the map link in a Christiansburg Connection article on cleaning up dog waste. The article is in Appendix A. Below is the email from the map administrator showing no Town of Christiansburg participation, however the tables attached showed one resident entered the April 2, 2022 stream cleanup at the Aquatic Center.

From: John W. Burke <burkejw@montgomerycountyva.gov>

Sent: Thursday, September 15, 2022 11:39 AM

To: Patricia Colatosti <pcolatosti@christiansburg.org>; Kafi Howard (khoward@blacksburg.gov) <khoward@blacksburg.gov>

Subject: RE: Stormwater Days numbers

Good morning,

The public participation results are attached. The second excel has emails and phone number columns removed. 13 entries, 2 in County MS4 service area, one in TOB, zero in TOC. One associated with ReNew the New and one with our Broomin and Bloomin.

The lack of use of the app is frustrating me but I'm going to say we are still trying to use it as a participation tool. I'm going to try to figure out how to better convince people who take the QR code printouts to use the survey and how to get them to log onto to it online. When our new GIS staff member arrives I'll see if we can work on formatting and try to understand how to let users "Use my Location". We can discuss it at our next regional MS4 meeting!

John W Burke

Stormwater Specialist | Environmental Services
(540) 394-2090, ext. 54133 | montva.com/stormwater
Follow #MontVaMS4 on [Facebook](#) and [Twitter](#)



Diamond Hills Wetland Monitoring Virginia Tech Biodiversity Class

The report/presentation is available at <https://www.youtube.com/watch?v=jgAFXfVznoI>

Master Naturalists Save our Streams Monitoring group



IAAK WALTON LEAGUE OF AMERICA



Biological Monitoring Data Form for Rocky Bottom Method

Name of Stream: Toune Branch

Site ID: m8-01

Your Name: Carol Kaufman

Name of Certified Monitor(s): CAROL KAUFMAN, KIRK DUNCAN

Group or Organization Name: NRVMN

Number of Participants: 1

Latitude: 37.13641 N

Longitude: -80.40992 W

County/State: Montgomery, VA Survey Date: 5/10/22 Start Time: 10:30 AM End Time: 12:30 PM

Description of Site Location: STREAM RUNS THROUGH DEPOT PARK IN CHRISTIANA, ADJACENT TO BATTLESFIELD, PARK AREAS

ROCKY BOTTOM SAMPLING

Using a kick-sieve net, take up to four samples in the riffle area of 20 to 90 seconds each (75% of the time rubbing rocks, 25% of the time disturbing the streambed). Adjust the length of the sampling period to ensure you collect at least 200 macroinvertebrates. Write the length of each sampling period in seconds and place a check mark next to the net mesh size used.

Net 1 50 sec Net 2 45 sec Net 3 sec Net 4 sec Net mesh size: 1/16" 1/32" 1/50"

PHYSICAL CONDITIONS (check all that apply)

Today: Sunny Overcast Intermittent Rain Steady Rain Heavy Rain Snow

Yesterday: Sunny Overcast Intermittent Rain Steady Rain Heavy Rain Snow

Day Before Yesterday: Sunny Overcast Intermittent Rain Steady Rain Heavy Rain Snow

Water Temperature 15 F or 20 C (code F or C) Avg. Stream Width 20 ft. Avg. Stream Depth 8 in. Flow Rate NORMAL (high, normal, low, negligible)

OTHER COMMENTS This location was the site of a stream restoration project in 2018 to improve water quality and reduce erosion along the stream.

BIOLOGICAL MONITORING DATA FORM FOR ROCKY BOTTOM METHOD

Macroinvertebrate	Count	Tally				Count
		1	2	3	4	
Amphipods, Ostracids, and Nematodes	3			1		73
Beetles	7				11	5
Block Sifts	11					2
Caddisflies	229					1
Crabs	10					1
Common Nematodes	1					1
Crustaceans	1					1
Dipterids and Ostracodes	1					1
Flat Worms	95					
Gravel Sifts						
Other specific macroinvertebrates						
Total number of organisms in the sample (include other samples)						

2

BIOLOGICAL MONITORING DATA FORM FOR ROCKY BOTTOM METHOD

INDIVIDUAL METRICS

	Organism Groups	Number of Organisms		Total Number of Organisms in the Sample		Percent (This is your value for this metric.)
Metric 1	Mayflies + Stoneflies + Most Caddisflies (not Common Netspinning)	302	+	331	Multiply by 100	91.2%
Metric 2	Common Netspinning Caddisflies	10	+	331	Multiply by 100	3.0%
Metric 3	Lunged Snails	0	+	331	Multiply by 100	0%
Metric 4	Beetles	3	+	331	Multiply by 100	.9%

Metric 5: Tolerant

Organism Groups	Number of Organisms
Black Flies	7
Clams	0
Dragonflies and Damselflies	1
Flatworms	0
Leeches	0
Lunged Snails	0
Midges	5
Scuds	0
Sowbugs	2
Worms	0
Total Tolerant	<u>15</u>
Total number of organisms in sample	<u>331</u>
Multiply by 100	<u>4.53%</u>
Percent (This is your value for Metric 5.)	<u>4.53%</u>

Metric 6: Non-Insect

Organism Groups	Number of Organisms
Clams	0
Crayfish	0
Flatworms	0
Gilled Snails	0
Leeches	0
Lunged Snails	0
Scuds	0
Sowbugs	2
Worms	0
Total Tolerant	<u>2</u>
Total number of organisms in sample	<u>331</u>
Multiply by 100	<u>0.60%</u>
Percent (This is your value for Metric 6.)	<u>0.60%</u>

MULTIMETRIC INDEX (STREAM HEALTH SCORE)

Metric Number	Metric Organism	Your Metric Value	2	1	0
1	Mayflies + Stoneflies + Most Caddisflies	91.2	Greater than 32.2	16.1 - 32.2	Less than 16.1
2	Caddisflies: Common Netspinning	3.0	Less than 19.7	19.7 - 34.5	Greater than 34.5
3	Snails: Lunged	0	Less than 0.3	0.3 - 1.5	Greater than 1.5
4	Beetles	.9	Greater than 6.4	3.2 - 6.4	Less than 3.2
5	Tolerant	4.53	Less than 46.7	46.7 - 61.5	Greater than 61.5
6	Non-Insects	.6	Less than 5.4	5.4 - 20.8	Greater than 20.8
			Total # of 2s: <u>5</u>	Total # of 1s: <u>0</u>	Total # of 0s: <u>1</u>
			SUBTOTALS	Multiply by 2: <u>10</u>	Multiply by 1: <u>0</u>
					Multiply by 0: <u>0</u>

Add the three subtotals to get the Save Our Streams Multimetric Index Score: 10

Acceptable Ecological Condition (9 - 12)
 Ecological conditions cannot be determined at this time (8)
 Unacceptable Ecological Condition (0 - 7)

BIOLOGICAL MONITORING DATA FORM FOR ROCKY BOTTOM METHOD

BIOLOGICAL MONITORING DATA FORM FOR ROCKY BOTTOM METHOD

STREAM CONDITIONS

Fish water quality indicators: <input type="checkbox"/> scattered individuals <input type="checkbox"/> scattered schools <input type="checkbox"/> trout (pollution sensitive) <input type="checkbox"/> bass (somewhat sensitive) <input type="checkbox"/> catfish (pollution tolerant) <input type="checkbox"/> carp (pollution tolerant) <input checked="" type="checkbox"/> <i>do not observe fish</i>	Barriers to fish movement: <input type="checkbox"/> beaver dams <input checked="" type="checkbox"/> man-made dams <input type="checkbox"/> none <input type="checkbox"/> other _____	Surface water appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> clear, but tea-colored <input type="checkbox"/> colored sheen (oily) <input type="checkbox"/> foamy <input type="checkbox"/> milky <input type="checkbox"/> muddy <input type="checkbox"/> black <input type="checkbox"/> grey <input type="checkbox"/> other _____	Streambed deposit (bottom): <input type="checkbox"/> grey <input checked="" type="checkbox"/> orange/red <input type="checkbox"/> yellow <input type="checkbox"/> black <input checked="" type="checkbox"/> brown <input type="checkbox"/> silt <input type="checkbox"/> sand <input type="checkbox"/> other _____
Odor: <input type="checkbox"/> musky <input type="checkbox"/> oil <input type="checkbox"/> sewage <input type="checkbox"/> other _____ <input checked="" type="checkbox"/> none	Stability of streambed (bed sinks beneath your feet in): <input type="checkbox"/> no spots <input type="checkbox"/> a few spots <input type="checkbox"/> many spots	Algae appearance: <input type="checkbox"/> light green <input type="checkbox"/> dark green <input checked="" type="checkbox"/> brown coated <input type="checkbox"/> matted on stream bed <input type="checkbox"/> hairy	Algae located: <input type="checkbox"/> everywhere <input checked="" type="checkbox"/> in spots <input checked="" type="checkbox"/> 22% bed covered
Stream channel shade: <input type="checkbox"/> More than 75% full <input type="checkbox"/> 50% - 74% high <input type="checkbox"/> 25% - 49% moderate <input checked="" type="checkbox"/> 1% - 24% slight <input type="checkbox"/> none	Streambank composition (~100%): <input type="checkbox"/> 20% trees <input type="checkbox"/> 50% shrubs <input type="checkbox"/> 15% grass <input type="checkbox"/> 15% bare soil <input type="checkbox"/> % rocks <input type="checkbox"/> % other	Streambank erosion: <input type="checkbox"/> More than 75% severe <input type="checkbox"/> 50% - 75% high <input type="checkbox"/> 25% - 49% moderate <input type="checkbox"/> 1% - 24% slight <input checked="" type="checkbox"/> none	Riffle composition (~100%): <input type="checkbox"/> 5% silt (mud) <input type="checkbox"/> % sand (1/16" - 1/4" grains) <input checked="" type="checkbox"/> 75% gravel (1/4" - 2" stones) <input type="checkbox"/> 20% cobbles (2" - 10" stones) <input type="checkbox"/> 10% boulders (> 10" stones)

LAND USES IN THE WATERSHED (UPSTREAM AND SURROUNDING SAMPLING SITE)

Indicate whether the following land uses within a one-mile radius of your sampling site have a high (H), moderate (M), slight (S), or no (N) potential impact to the quality of your stream.

N Oil & gas drilling
 N Urban uses (parking lots, highways, etc.)
 N Housing developments
 N Sanitary landfill
 N Forestry
 N Active construction
 N Mining (type: _____)
 N Agriculture (type: _____)
 S Trash dump
 N Fields
 N Livestock Pasture
 Other _____

COMMENTS: Describe the amount and type of litter in and around the stream and indicate the current and potential future threats to the stream's health.

Few small pieces of litter. Stream runs through a recreational park but did not observe excessive trash in the park.

Very clean.

Please send your data sheets to your regional coordinator or submit them online at www.vasos.org. If you have any questions about this protocol, please contact the VA SOS Coordinator at vasos@vta.org. Data sheets must be stored for five years after sampling. If you are unable to keep your data sheets, please contact the VA SOS Coordinator.

Christiansburg Aquatic Center FINS Summer Camp Stream Day



MCPS Seventh Grade Stormwater Days April 11 and 12 2022



Stormwater Information Booth at NRV Home Expo

From: Kelsey Grow kelsey@nrvhba.com

Sent: Wednesday, September 28, 2022 2:32 PM

To: John W. Burke burkejw@montgomerycountyva.gov

Subject: [EXTERNAL] Home Expo Attendance

Hi John:

Our attendance at the show this year was about 1200.

Thanks!

Kelsey Grow | Executive Officer

New River Valley Home Builders Association

Mailing Address: P.O. Box 2010 | Christiansburg, VA 24068

Office Address (By Appt. Only): 2200 Kraft Drive, Suite 1050 | Blacksburg, VA 24060

(o) 540-443-0090 | (c) 757-784-5436

kelsey@nrvhba.com

www.nrvhba.com

Learn more about saving \$\$ with the NAHB Member Savings Program by clicking this link:



Appendix C: List of Illicit Discharges

Table 6: Illicit Discharges

Illicit Discharge	Part I.E.3.e(3)(a) Source	Part I.E.3.e(3)(b) Date Observed & Date Reported:	Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe):	Part I.E.3.e(3)(d) Investigation Resolution:	Part I.E.3.e(3)(e) Description of Follow-up Activities:	Part I.E.3.e(3)(f) Date Investigation Closed:
Mulch moving in quantity into storm drain system in Oak Tree Phase I and II. Expanded to all phases 10/2019	Oak Tree Development	7/9/2018, 10/24/2019, 3/20/2020, 1/27/2021, 3/23/2021	Originally reported by Public Works employee, 2019-20 and 2020-21 reports by Public	Investigation of all phases of Oak Tree development noted multiple areas where mulch could be moving into the storm drain. No evidence of dumping mulch.	Continue to talk to HOAs about alternative ground covers and edging for mulch beds.	ongoing as of 6/30/2022, no complaints or calls during 21-22 reporting year
Water in ditch at 2605 Glade Dr during dry weather, reporting person conducted chlorine test that came up positive and reported that ditch was routinely wet.	unknown/not found	Reported 7/29/2020, Investigated 7/30/2020	Reported by Public	Forwarded to Utilities to check for water line break. No resolution. Resident has not called again	Extensive work done on sewer and upstream channel during reporting year 21-22	no further complaints reporting year 21-22. closed 9/30/2022
Resident asked Justin St Clair about trash in the stream behind the mall (UT to Slate Branch) and whether the Town did stream clean ups at that location	Specific source of trash not found. Illicit discharge not investigated	Reported 8/31/2020	Reported by Public	Not resolved	None	open

Report of radiator fluid being discharged directly to curb inlet at Mr. Tire at 2870 Market St. Report by resident who saw employ at Mr. Tire discharge fluid from his car to the parking lot.	unknown/not found	Observed 4/10/2021 and Reported 4/12/2021	Reported by Public	Checked storm drains in area on 4/22/2021 . Source not found.	Checking storm drains and SWM pond below 2870 Market St intermittently for 6 months	Closed 8/24/2021 after repeated checks found no recurrence
Mulch in road and storm drains from vehicles leaving American Mulch on College St (100 Radford St). Reported as an intermittent problem requiring the Town to use the street sweeper to clean up the road		Reported on 6/1/2021 as an ongoing concern	Reported by TOC employee	Did not visit site prior to 6/30/2021	Discussion of how to document and charge for cost of Town cleaning up spills	ongoing as of 6/30/2022 as we received a new complaint for the same issue on 7/20/2022
Fish kill in Crab Creek behind 950 Clark St, extending upstream to a pipe extending from the Southern States yard	unknown/not found	Observed and reported on 6/7/2021	Reported by TOC employees	Checked storm drains in area on 4/22/2021 . Source not found.	Need to follow up with Southern States on herbicide management on the yard and where the pipe is coming from	closed due to no recurrence 12/7/2021
Soap or white liquid washing off Blackberry/American Mulch on College St	Coming from garages on property, they denied washing anything	Observed and reported on 7/27/2021	Reported by TOC employee	There was a large thunderstorm the previous night and there was mulch all across the American Mulch lot. The white liquid did get to the ditch but did not appear to reach the drop inlet at the corner of College and Radford St. P Colatosti talked with the office manager about not releasing or washing anything but water off the lot.	This site is under a continuing open IDDE investigation as we try to manage mulch releases.	white soap discharge event closed 7/27/2021

Sediment tracking at Roanoke and Dunlap intersection	Construction entrance from land disturbance of under 10,000 sf	Reported to DEQ via PReP portal and forwarded to the Town on 8/30/2021	Reported by VDOT employee	Construction operator asked to clean up tracked sediment	None, area cleaned up	8/30/2021
Received complaint that BMP at old Exit 118 Park and Ride (adjacent to Roanoke St/ Rt 11/460 northbound at the I-81/Falling Branch Rd off ramp) 2005 Roanoke St was clogged	none found	Complaint received via Steve Woodyard at DEQ from PReP report 8/30/2021	Reported by VDOT employee	Upon inspection by P Colatosti the SWM BMP appears fine. No evidence of standing water on the infiltration bed, or ponding around the outlet structure as far as could be seen from the Roanoke St ROW.	None	8/31/2021
Contractor at Christiansburg Police Dept. washing out pain wash bucket to grass above storm drain/stream	Wash bucket discharge was confined to the grass and did not enter the stream or storm drain	9/9/2021	Reported by Town employee	Called Roger Leonard at Public Works. He said he would call Darren Epperly with the PD to talk to the painter and have him wash out the remainder of the wash buckets to the sewer inside the PD. There was no more wash water discharged outside.	none	9/9/2021
Eroding slopes on the VDOT median and ramps on I-81 discharging muddy water and sediment into the new stormwater detention pond at Reagan's Pointe on Glade Dr	not found	Reported 9/30/2021	Reported by public	Was not resolved. Complaint not forwarded to VDOT.	Still need to talk to VDOT MS4 manager about the erosion issues	open pending talking to VDOT

Town citizen sent a video of Towne Branch running brown and high with possible sedimentation in the water through Depot Park	Not found. Possibly due to a water main break on 12/25/21 up the road from the stream.	Observed 12/25/2021 and reported 12/28/2021	Reported by public	source not found. No evidence of fish or amphibian deaths in Towne Branch. No evidence of in-stream impact	none	12/28/2021
Possible illicit discharge from uncovered buckets	Alan Shaw received call from Tommy Sullivan (PW) about uncovered buckets containing liquids outside of Sakura restaurant and possible dead grass beneath the buckets.	2/22/2022	Reported by Town employee	Alan Shaw went to the restaurant to investigate. He stated that upon inspecting the buckets, they were only filled with rain water and no action needs to be taken.	none	2/22/2022
Gas/petroleum odor coming from storm drain system in the area of Ellett Dr and Roanoke St	no source found	3/18/2022	Reported by public	No odor found on 3/22/22 and 3/23/22 by walking from Hagan St. to the Hardees on Roanoke St. See the applicable investigation note document(s) in the folder for additional information. On 3/24, a faint petroleum odor was detected coming from two storm drain inlets in front of the FedEx building	This is upgradient and about 0.33 miles from the continuing investigation of petroleum odors in the vicinity of Town Hall. This is added to the continuing investigation of petroleum odors from the storm drains in the downtown area.	open

Outfalls discharging at Public Works yard	no source found	3/30/2022	Town employees were mapping the outfalls at the Public Works facility and saw that two outfalls were discharging what appeared to be clear water	Both outfalls are connected to the same DI in the parking lot. No evidence of water flowing over parking lot.	The storm drain system at the Public Works yard will be remapped over the next year, as one of these outfalls was reported as being removed/sealed.	open
A white, milky substance that looked like paint running down the parking lot at 690 N. Franklin Street (Parmer & Sons Painting and Staining)	An employee of the business stated that a bucket of paint had accidentally dropped from a van onto the ground and spilled onto the parking lot	4/12/2022	Reported by Town employee Justin St. Clair	Patricia Colatosti and Mitch Rieley went to the business to discuss the spilled paint with an employee and receptionist. The employee said that a bucket of paint had accidentally fallen from a van and spilled/ He then used rags to try to clean it up and tried to pressure wash the rest from the parking lot. The paint has dried and did not travel to any stormwater inlets or streams and was not an illicit discharge. We discussed using solvents, sorbent pads, etc. to clean up any spilled paint in the future and to contact us if they needed any guidance with cleaning spills.	No follow up required	4/13/2022

Spilled paint on Franklin Street	Unable to locate source	5/25/2022	Seen by Mitch Rieley and Patricia Colatosti	The paint did not go into the storm sewer system.	No follow up required	5/25/2022
Complaint relayed via Montgomery County Engineer about citizen complaint of algae covered pond on Burley Lane	no source found	6/23/2022	Reported by public,	Site visit did not show any evidence of illicit discharge. Pond appears to be undergoing normal ecological succession.	none	7/21/2022
Unknown pipes are in the stream behind Alder Lane pond.	source not found	1/25/2022	Detected during Town inspection of adjacent Town owned SWM facility	Pipes were checked twice and do not appear to be connected to any source. Appear to be old drain pipes	rechecked 2/10/2022. Will be checked again at next inspection of adjacent Alder Lane SWM facility	open until determine pipes not connected
Discharging outfalls	under investigation spring 2022		detected during screening	no resolution. Multiple outfalls noted to be discharging during screening. Suspect springs and streams piped to storm sewer.	Investigation during extended dry weather	open

Appendix D: Documentation of Land Disturbance Complaints

Town of Christiansburg 2021 -2022 MS4 Annual Report

MCM2 – Input/Complaint Land Disturbing Activities

Location/Project Name	Date	Description of Response
680/700 Scattergood	8/10/2021	Complaint of blasting. Alan Shaw investigated on 8/11/2021. Over 15,000 sf of disturbance. Stop Work Order issued. Owner told to stabilize area.
920 Stafford	8/10/2021	Received complaint from Public Works Dept. about resident grading the ditch in the ROW. Upon investigation ditch had been stabilized and less than 10,000 sf disturbed. Referred to Planning Dept for zoning issues.
1048 Radford St	8/17/2021	Complaint from Town employee of sediment and muddy water discharging from next to Country Kitchen after heavy rain. Cole Hammonds confirmed that this was from a driveway washing out and not land disturbance.
Signature Park Peppers Ferry Rd	8/20/2021	Complaint from resident about muddy water in the stormwater retention ponds on Quin W Stuart which receive stormwater from the sediment basin at the Signature Park project. Complaint received after a large rain event. Cole Hammonds investigated. Outlet structure on basin needed repair. Project manager for the Town coordinated with the operator to make repairs and contacted owner of the ponds to discuss any needed sediment removal.
Hans Meadow and Depot St Stream Work	7/6/2020, 1/5/2022	Complaint from Town employee about grading work in Crab Creek and on adjacent land. Cole Hammonds investigated the same day. Land disturbance was under 10,000 sf so contacted Chet Bigelow (USACoE) about stream work. Resulted in site visit with owner, DEQ (Shawn Crist) USACoE (Chet Bigelow) and Town representatives. Owner said he would stabilize, which was documented on 12/30/2020, and work with USACoE to permit the stream work. Owner also submitted a site plan to the Town which has not been approved. 1/5/2022 – call from Town employee that there was a small amount of grading work being done along the stream. We do not have documentation of follow up.
Intersection of Railroad St and N Franklin St	8/26/2021	Complaint from resident about dirt in the street from work being done on a property on the corner. Alan Shaw investigated. Gas company was excavating.
301 East Main ST	08/30/2021	Complaint by Town employee about deep mud on sidewalk. Patricia Colatosti investigated. Mud appeared to be from a walkway installation of less than 10,000 sf disturbance. Referred to Neighborhood Services.
2945 Roanoke Street	8/30/2021	Received a call from PW Dept. regarding mud in the Rd in the area of Depot and Roanoke St. Made contact with land owner of 2945 Roanoke St who is expanding the width of his driveway. A concrete truck that was exiting the site after a small pour tracked mud out onto Roanoke St. The owner of the property was advised to remove the mud from the travel-way and stabilize the approximately 4,000 sqft of disturbed area. Cole Hammonds investigated.

315 Tanglewood	8/30/2021	Complaint of new construction at 333 Tanglewood causing increased drainage at 315 Tanglewood. Cole Hammonds investigated. New driveway may be directing runoff off road. Referred to Public Works to work on ditch.
John Elmore Site, 710 Peppers Ferry Rd	9/3/2021	Alan Shaw conducted a follow up visit. Mr. Elmore had disturbed more than 10,000 sf and was asked to stabilize the excess area.
End of Flint Dr	9/16/2021	Resident called to ask about a French drain being constructed at the end of the cul-de-sac. Alan Shaw investigated and determined it was actually the construction entrance for the new, permitted, home construction.
Signature Park Peppers Ferry Rd	9/27/2021	Complaint from resident about continued muddy water coming from the sediment basin on the Park Project into the stormwater ponds on Quin W Stuart. Cole Hammonds investigated. Received complaint from HOA regarding sediment laden water on their pond. Water was discharge from sediment basin on Park project, approx 5.5" of rain. Project manager for the Town contacting owner.
412 Roanoke St., Aztec Rental	10/20/2021	Complaint from Town employee about grading/grubbing/clearing on the site. Alan Shaw investigated. They are under 10,000 sf of disturbance.
Vinnie Ave stormwater discharge path	11/05/2021	Complaint from resident about new development sediment basin/post-construction detention pond discharging to his property and not discharging into a stormwater conveyance system. Plan was revised to include a new channel.
Market Place Redevelopment Phase II	11/15/2021	Got a complaint about dumping in a DI at the back of Pad D. No one working in the building knew anything about it. I told Robert to let all of the contractors know not to dump anything in the storm sewer.
155 Highview	12/06/2021	Complaint from resident at 610 2 nd St about possible drainage issues with land disturbance and construction on adjoining property. Land disturbance is at 9000 sf so no land disturbance permit required.
2150 Roanoke St	12/16/2021	Complaint from nearby business about gravel spread on grass and car lot created on new gravel area. Disturbance determined to be under 10,000 sf and they were removing the gravel. Referred to Planning Dept.
600 block of Pin Oak / Oak Tree Phase 11-13	12/28/2021	Complaint from resident about steep banks down to culvert and erosion issues in ditch. This development has open CGP and Land Disturbance permits. It was determined to have the developer deal with all of the erosion at once before permit closeout.
Magnolia Point Phase I	2/24/2022	Received complaint from downstream neighbor regarding sediment laden water entering their farm pond. Inspection of the site following the complaint revealed a misplaced diversion dike that increased the drainage area the sediment trap beyond the designed specifications causing a discharge to a drop inlet that flows to the farm pond. The contractor was notified via phone and will make corrections immediately. Had a phone conversation with Dexter Albert where I attempted to understand his historical recounts of what he described as a town "cover up" regarding the development of New Village town homes. I informed Mr. Albert multiple times of the need for him to discuss this with the appropriate town personnel and offered multiple times to facilitate this conversation. Mr. Albert refused this invitation

		and made threat of a lawsuit. Cole Hammonds investigated.
Signature Park runoff into Quin W Stuart SWM ponds	2/24/2022	Complaint from resident about muddy water discharge into the SWM ponds on Quin W Stuart from the sediment basin at the Signature Park after a rainstorm. Complaint was forwarded to the Town's project manager for the site to contact the owner. An inspection of the site on 2/25/22 showed the site to be in compliance.
Building F1 Skyline National Bank	3/1/2022	Checked on a complaint of dirt piled above the curb and the inlet protection removed. Dirt is spread out and inlet protection moved to do paving. Not a problem. Alan Shaw investigated.
190-200 Economy	3/2/2022	Duplex construction with permit approval for 4000 sf (which does not require a land disturbance permit) appears to have disturbed over 10,000 sf. Cole Hammonds investigated. Disturbance is just under 10,000 sf. Referred to Building Dept to keep them to allotted disturbance and fix ESC measures.
Craig St Townhomes	3/2/2022	Complaint from Town employee of silt fence down and port-a-john situated next to a storm drain inlet. Cole Hammonds had them move the port-a-john and the silt fence was a utility issue.
2705 Roanoke St	4/25/2022	Town staff noticed a large newly disturbed area while doing a post-construction BMP inspection on the adjacent property. Disturbance was determined to be over 10,000 sf and was already stabilized with gravel. Site plan requested and is being coordinated through Planning Dept.
Magnolia Point Phase I	5/27/2022	Received complaint regarding sediment laden water entering a pond belonging to Mrs. Albert. Ms. Albert was contacted and it was explained that the sediment trap had reached capacity and was discharging. She was provided with a contact phone number for the contractor and owner to discuss further. I contacted the contractor and recommended additional stabilization. I contacted the Owners representative and recommended that they report the discharge due to the possibility of jurisdictional water impact. I was then contacted by Dexter Albert and attempted to explain the role of the Town and actions I had taken as well as the Owner/contractor in this matter. On multiple occasions he demanded that I research the history of the development of this area, he made claims to be owed something from the town.
205 Windsor Dr re: Signature Park	6/14/2022	Residents emailed Town Council with complaints about excessive muddy stormwater discharging through their property from the adjacent Signature Park project. Email referenced events on 5/7/2022 and 5/27/2022 after rain events. Referred to Town's project manager as visit by Cole Hammonds indicated the controls appeared to be functioning.
Clifton (Stateson Homes)	12/9/2020, 9/10/2021, 5/18/2022, 5/26/2022, 6/7/2022, 6/28/2022	12/9/2020- Alan Shaw: Got with Stateson Homes again about the cleaning in the open space. Ask them to send me the HOA contact. I think this is a MS4 violation not a CGP. Tom is going to email me the contacts . 2022 multiple calls about clearing and managing conserved open space. The Town has determined that the best path forward is to work with the HOA as a whole. This project still has an open CGP and open Land Disturbance permit. Patricia Colatosti is coordinating with the HOA manager for future maintenance.

Powerzone 2700 Roanoke St	4/21/2021, 3/1/2022	4/21/2021- Call from a resident complaining of 12,000 square feet of gravel put on land that was grass and that the business was renting Uhauls. Alan Shaw investigated. It appears to be 7000 square feet of gravel. ***Town continues to investigate from a stormwater management and zoning perspective.(PC) Determined this is a zoning issue. Received a call from a consulting engineer on 3/1/2022 and explained why a site plan is needed for land disturbance and change in land cover.
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Appendix E: Documentation of Staff Training and Nutrient Management Plan Implementation



MS4 Bi-Annual Training

Sign-In Sheet

Topic: MS4 Training

Date: 6-28-22

Provided by: Travis Moles

Location: Operations Center

Meeting Hours: 1.0

Print Name

Robert L. Lewis SR
Randy Turman
Jacob Woods
Cody Sowder
Matt Gillispie
Dalton Reynolds
Brandon Collins
Sean Murphy
Cotton Bonsor
Dwight J. Price
Lloyd Lopes
Chase Smith
KENNY CISTER
Ben Gilmer

Signature

Robert L. Lewis SR
Randy Turman
Jacob Woods
Cody Sowder
Matt Gillispie
Dalton Reynolds
Brandon Collins
Sean Murphy
Cotton Bonsor
Dwight J. Price
Lloyd Lopes
Chase Smith
KENNY CISTER
Ben Gilmer

MS4 Bi-Annual Training

Sign-In Sheet

Topic: MS4 Training

Date: 6-28-22

Provided by: Travis Moles

Location: Operations Center

Meeting Hours: 1.0

Print Name

Timothy Tucker
Loy Durr
Tim Allen
James Witt
Jeremy Lowman
Brent Heaver
CARL Light
Cary Moore
Curtis Williams
RAY Willis
Josh Dickerson
Justin Farris
CURRY'S GARD
Thomas Sullivan
Brad Phillips

Signature

Timothy Tucker
Loy Durr
Tim Allen
James Witt
Jeremy Lowman
Brent Heaver
CARL Light
Cary Moore
Curtis Williams
RAY Willis
Josh Dickerson
Justin Farris
CURRY'S GARD
Thomas Sullivan
Brad Phillips



MS4 Bi-Annual Training

Sign-In Sheet

Topic: MS4 Training

Date: 6-29-22

Provided by: Travis Moles

Location: Operations Center

Meeting Hours: 1.0

Print Name

Christopher Martin

Steven Witt

Austin Hendon

Donald Roberson

Chris Merritt

Richard Weber

James Collins

John Moore

Travis Lester

Wally

Signature

Christopher Martin

Steven Witt

Austin Hendon

Donald Roberson

Chris Merritt

Richard Weber

James Collins

John Moore

Travis Lester

Wally

Michael Price

Town of Christiansburg 2022 MS4 Training Presentation Record

Survey Monkey Embedded Video Training

Name	Date
Robert Flinchum	6/29/2022
Freddie Price	6/28/2022
Russell Groseclose	6/28/2022
Carl Correll	6/28/2022
Dustin Mazza	6/25/2022
Mitchell Rieley	6/14/2022
Benjamin Tripp	6/13/2022
Alan Shaw	6/13/2022
Michael Kelley	6/10/2022
Justin St. Clair	6/10/2022
Kelly Collins	6/10/2022
Patricia Colatosti	6/10/2022

Date:
Department:
Supervisor:

Christiansburg Aquatic Center
Staff Training
MS4 Staff Training

Please sign in below.

Mark Cates
David L. Fruhman
Aman Puri
John Henry
Mark S. Bell

Date/Time	Who Applied Pesticides	Who Owns Property	Total Area	Problem Treated	Product Used	Equipment Used	Quantity Applied	Detailed Weather
1 6/21/19	Robney Jordan	Town of Abing	5.1 Acres	insects & fields	Chlorothalonil	John Deere	960 gal	Partly Sun / light wind
2 6/21/19	Robney Jordan	Town of Abing	5.1 Acres	infield & walls	Metenfam	John Deere	2560 gal	Partly Sun / light wind
3 6/25/20	Steve Lane	Hankinson Town	5.1	" "	Eglate	500 gal sprayer / sprayer	800 gal	Sun
4 6/30/21	Steve Lane	Hankinson Town	7 Acre	" "	Ametra	shovel on Sprayer	5 1/4 lbs	Sunny
5 7/3/21	Steve Lane	Hankinson Town	7 Acre	insects & fields	Solilure	shovel on Sprayer	10 lbs / meter	Sunny / calm
6 6/17/22	Steve Lane	Hankinson Town	7 Acre	" "	Ecolac	Shovel on Sprayer	254 oz	Sun / Wind 5-10
7 8/17/22	Steve Lane	Hankinson Town	7 Acre	infield & walls	Solilure	Shovel on Sprayer	1/10 gal / 100 gal	8 in / 72°
8 8/17/22	Steve Lane	Steve's Fields	2 Acres	odfields	Drive / Densie	Shovel on Sprayer	1/10 gal / 80 gal	Sun / 72°
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Hankinson
/ 2022

Fertilizer Application Records

Kiwanis

HARKRADER? — Tinsfield.

Fertilizer Application Records

Fertilizer Application Records