



Tennessee Department of Environment and Conservation
 Division of Water Resources
 William R. Snodgrass Tennessee Tower,
 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
 1-888-891-8332 (TDEC)

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 Information

Name of MS4: City of Bristol, TN		MS4 Permit Number: TNS075183
Contact Person: Jacob Chandler		Email Address: jchandler@bristoltn.org
Telephone: (423) 989.5585		MS4 Program Web Address: https://www.bristoltn.org/134/Stormwater-Information
Mailing Address: 212 Blackley Road		
City: Bristol	State: TN	ZIP code: 37621

What is the current population of your MS4? 26,842

What is the reporting period for this annual report? July1 2017 to June 30 2018

2. Discharges to Waterbodies with Unavailable Parameters or Exceptional Tennessee Waters (Section 3.1)

- A. Does your MS4 discharge into waters with unavailable parameters (previously referred to as impaired) for pathogens, nutrients, siltation or other parameters related to stormwater runoff from urbanized areas as listed on TN's most current 303(d) list and/or according to the on-line state GIS mapping tool (tdeconline.tn.gov/dwr/)? If yes, attach a list. Yes No
- B. Are there established and approved TMDLs (<http://www.tn.gov/environment/article/wr-wws-tennessees-total-maximum-daily-load-tmdl-program>) with waste load allocations for MS4 discharges in your jurisdiction? If yes, attach a list. Yes No
- C. Does your MS4 discharge to any Exceptional Tennessee Waters (ETWs - http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34304:4880790061142)? If yes, attach a list. Yes No
- D. Are you implementing specific Best Management Practices (BMPs) to control pollutant discharges to waterbodies with unavailable parameters or ETWs? If yes, describe the specific practices: The City manages a Qualifying Local Program (QLP) in accordance with the Tennessee Department of Environment and Conservation (TDEC) Construction General Permit (CGP) and the TDEC Erosion and Sediment Control Handbook that requires a higher degree of protection during construction activities for waterbodies with unavailable parameters or ETWs. The City also requires post-construction water quality treatment and stream buffers for projects that disturb more than 1-acre, while this is a City wide requirement, it serves to protect all waterbodies. The City also requires channel protection for all projects that disturb more than 1-acre, while this is a City wide requirement, it serves to protect all waterbodies. Yes No

3. Public Education/Outreach and Involvement/Participation (Sections 4.2.1 and 4.2.2)

- A. Have you developed a Public Information and Education plan (PIE)? Yes No

- B. Is your public education program targeting specific pollutants and sources, such as Hot Spots? If yes, describe the specific pollutants and/or sources targeted by your public education program: When development projects are submitted the City requires a Special Pollution Abatement Plan (SPAP) for developments that are consider Hot Spots. The SPAP specifically targets pollutants that are generated on each Hot Spot development. The City also works to develop and maintain a map of Hot Spots and is devising a program to educate each home owner of Hot Spot sources. The City has created a list of development Hot Spots. The City has also created brochure that was sent to the Hot Spots list to educate and inform of the hazards of contaminated water runoff. The City is a participating member in the Tennessee Stormwater Association (TNSA) Tennessee Association of Broadcasters (TAB) Public Education Program, which airs stormwater education segments on the radio; please refer to the attachment. TNSA is also starting social media campaign, which consists of static ads related to the season and activates per month. The City also airs stormwater educational segments on BTN-TV that target specific audiences and pollutants; 17,720 segments were aired during the year. The segments contain information on pesticides, motor oil, leaves, animal waste, and trash. 1210 water adventure coloring books and 1786 stormwater brochures were distributed to the Bristol Tennessee City School System. The City also maintains information on the website that targets specific pollutants of concern, such as pesticides, fertilizers, and herbicides; the websites has 264 views with an average time spent of 1-minute, and 30-seconds. Yes No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: <http://www.bristoltn.org/134/Stormwater-Information> Yes No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: The City primarily relies on BTN-TV, the City's website, and social media (Facebook, Twitter, Instagram, YouTube, Flickr, and Periscope) to advertise and publicize the public education, outreach, involvement, and participation opportunities. The City also has a Calendar on the main website where the City advertises different events, such as stream cleanup events. The City is in the process of updating the financial system, which will allow the City the ability to advertise and provide information to the public on utility bills. The City partners with various organizations to support various environmental efforts, such as stream cleanups and 100k tree days.
- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: The City participated in the TNSA TAB program, provided school material for distribution as detailed above, and was a distribution point for the 250k Tree Day Event. The City advertised the following events on the City website calendar: Boone Lake Cleanup Day on April 28, 2018 and Household Hazardous Waste Collection on April 28, 2018. The City is also a board member of the Boone Watershed Partnership that provides various activities, events, and sponsorships through the year.
- F. Summarize any specific successful outcome(s) (e.g., citizen involvement, pollutant reduction, water quality improvement, etc.) fully or partially attributable to your public education and participation program during this reporting period: South Holston lake and river clean up was held August 11, 2018. The South Holston event had 454 volunteers that collected 750 (7.5 tons) of tires, and 6.64 tons of house hold trash. The city was also a distribution point for the Tennessee Enviromental Council 250k Tree Day Event.

4. Illicit Discharge Detection and Elimination (Section 4.2.3)

- A. Have you developed and do you continue to update a storm sewer system map that shows the location of system outfalls where the municipal storm sewer system discharges into waters of the state or conveyances owned or operated by another MS4? Yes No

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

- B. If yes, does the map include inputs into the storm sewer collection system, such as the inlets, catch basins, drop structures or other defined contributing points to the sewershed of that outfall, and general direction of stormwater flow? Yes No
- C. How many outfalls have you identified in your storm sewer system? 112
- D. Do you have an ordinance, or other regulatory mechanism, that prohibits non-stormwater discharges into your storm sewer system? Yes No
- E. Have you implemented a plan to detect, identify and eliminate non-stormwater discharges, including illegal disposal, throughout the storm sewer system? If yes, provide a summary: The City performs outfall assessments using the Maryland Stream Corridor Assessment Survey Protocols to visually determine if there are possible illicit discharges. If an illicit discharge is suspected, the City will use a storm sewer system map to track the discharge further upstream. The City also provides staff training regarding illicit discharges and relies on the field staff to be cognizant of potential illicit discharges or dumping. Yes No
- F. How many illicit discharge related complaints were received this reporting period? 5
- G. How many illicit discharge investigations were performed this reporting period? 5
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 2

5. Construction Site Stormwater Runoff Pollutant Control (Section 4.2.4)

- A. Do you have an ordinance or other regulatory mechanism requiring:
 Construction site operators to implement appropriate erosion prevention and sediment control BMPs consistent with those described in the TDEC EPSC Handbook? Yes No
 Construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste? Yes No
 Design storm and special conditions for unavailable parameters waters or Exceptional Tennessee Waters consistent with those of the current Tennessee Construction General Permit (TNR100000)? Yes No
- B. Do you have specific procedures for construction site plan (including erosion prevention and sediment BMPs) review and approval? Yes No
- C. Do you have sanctions to enforce compliance? Yes No
- D. Do you hold pre-construction meetings with operators of priority construction activities and inspect priority construction sites at least monthly? Yes No
- E. How many construction sites disturbing at least one acre or greater were active in your jurisdiction this reporting period? 20
- F. How many active priority and non-priority construction sites were inspected this reporting period? 20
- G. How many construction related complaints were received this reporting period? 0

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

6. Permanent Stormwater Management at New Development and Redevelopment Projects (Section 4.2.5)

- A. Do you have a regulatory mechanism (e.g. ordinance) requiring permanent stormwater pollutant removal for development and redevelopment projects? If no, have you submitted an Implementation Plan to the Division? Yes No
 Yes No
- B. Do you have an ordinance or other regulatory mechanism requiring:
 Site plan review and approval of new and re-development projects? Yes No
 A process to ensure stormwater control measures (SCMs) are properly installed and maintained? Yes No
 Permanent water quality riparian buffers? If yes, specify requirements: For all sites that disturbed more than 1-acre, a vegetated buffer is required from waterbodies and the widths is a minimum of 25-feet. Yes No
- C. What is the threshold for development and redevelopment project plans plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? All Projects
- D. How many development and redevelopment project plans were reviewed for this reporting period? 14
- E. How many development and redevelopment project plans were approved? 11
- F. How many permanent stormwater related complaints were received this reporting period? 276
- G. How many enforcement actions were taken to address improper installation or maintenance? 0
- H. Do you have a system to inventory and track the status of all public and private SCMs installed on development and redevelopment projects? Yes No
- I. Does your program include an off-site stormwater mitigation or payment into public stormwater fund? If yes, specify. N/A Yes No

7. Stormwater Management for Municipal Operations (Section 4.2.6)

- A. As applicable, have stormwater related operation and maintenance plans that include information related to maintenance activities, schedules and the proper disposal of waste from structural and non-structural stormwater controls been developed and implemented at the following municipal operations:
- Streets, roads, highways? Yes No
- Municipal parking lots? Yes No
- Maintenance and storage yards? Yes No
- Fleet or maintenance shops with outdoor storage areas? Yes No
- Salt and storage locations? Yes No
- Snow disposal areas? Yes No
- Waste disposal, storage, and transfer stations? Yes No
- B. Do you have a training program for employees responsible for municipal operations at facilities within the jurisdiction that handle, generate and/or store materials which constitute a potential pollutant of concern for MS4s? Yes No
- If yes, are new applicable employees trained within six months, and existing applicable employees trained and/or retrained within the permit term? Yes No

8. Reviewing and Updating Stormwater Management Programs (Section 4.4)

A. Describe any revisions to your program implemented during this reporting period including but not limited to:

Modifications or replacement of an ineffective activity/control measure. Additional SOPs and updates to SOPs have been made throughout the year to provide additional guidance to City staff regarding day to day activities and services provided.

Changes to the program as required by the division to satisfy permit requirements. The City has completed most of the items indicated in the 2016 MS4 Audit Corrective Action Plan. The only item that remains uncompleted is the update to the permanent SCM Maintenance Program. The City's consultant has been working on completing the owners guide and an updated ordinance for the City. The guide and ordinance was originally estimated to be completed by Summer 2017, however the creation of both has taken longer than expected.

Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. N/A

B. In preparation for this annual report, have you performed an overall assessment of your stormwater management program effectiveness? If yes, summarize the assessment results, and any modifications and improvements scheduled to be implemented in the next reporting period. As a result of the 2016 Audit, a review of all City's SOP was performed and additional SOPs were created while other SOPs were updated to provide additional guidance to City Staff.

Yes

No

9. Enforcement Response Plan (Section 4.5)

- A. Have you implemented an enforcement response plan that includes progressive enforcement actions to address non-compliance, and allows the maximum penalties specified in TCA 68-221-1106? If no, explain. _____ Yes No
- B. As applicable, identify which of the following types of enforcement actions (or their equivalent) were used during this reporting period; indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater management), and note those for which you do not have authority:

Action	Construction	Permanent Stormwater	Illicit Discharge	In Your ERP?
Verbal warnings	#1	#_____	#5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Written notices	#1	#_____	#5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Citations with administrative penalties	#_____	#_____	#_____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Stop work orders	#_____	#_____	#_____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Withholding of plan approvals or other authorizations	#_____	#_____	#_____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Additional Measures	#_____	#_____	#_____	Describe: <u>The City has a variety of compliance measures in the ERP not listed above.</u>

- C. Do you track instances of non-compliance and related enforcement documentation? Yes No
- D. What were the most common types of non-compliance instances documented during this reporting period? Most non-compliance issue are related to maintaining erosion and sediment control practises and enforcing the twice-weekly inspections.

10. Monitoring, Recordkeeping and reporting (Section 5)

- A. Summarize any analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. The City has been working to setup a meeting with TDEC regarding monitoring activities.
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. The City has been working to set up a meeting with TDEC regarding monitoring activites.
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report. Yes No

11. Certification

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

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

Margaret Feierabend, Mayor
 Printed Name and Title

 Signature

 Date

Annual reports must be submitted by September 30 of each calendar year (Section 5.4) to the appropriate Environmental Field Office (EFO), identified in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	1301 Riverfront Pkwy, Suite 206	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 520-6688
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000