



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: Bradley County		MS4 Permit Number: TNS077771	
Contact Person: Bently Thomas		Email Address: bthomas@bradleycountyttn.gov	
Telephone: (423) 728-7106		MS4 Program Web Address: bradleycountyttn.gov	
Mailing Address: 155 Broad Street NW			
City: Cleveland	State: TN	ZIP code: 37312	

What is the current population of your MS4? 25,460

What is the reporting period for this annual report? July 1 2020 to June 30 2021

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/wrws-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: Implementation includes: Dry weather screenings, pre-construction meetings, stream clean events held multiple times a year, social media postings, and hot-spot mailer updates. 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: Education and informational mailers are sent annually to identified hot-spot locations discharging into MS4 utilizing EPA Fact Sheets. Yes No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: www.bradleycountyttn.gov/stormwater_dept.html Yes No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: Social Media posts, stormwater webpage, newspaper ads, and public event flyers.

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- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: Public education, outreach, involvement and participation activities included 1 stream cleanup, and 1 Household Hazardous Waste Collection Day. See Attachment A for complete list.
- 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: Household Hazardous Waste Collection Day collections included 67,277 pounds of trash and chemicals.

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
- 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? 150
- 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: Illicit Discharge Detection and Elimination plan includes tracking all complaints, identifying hot spots, monthly construction site inspections, and dry weather screenings. Yes No
- F. How many illicit discharge related complaints were received this reporting period? 15
- G. How many illicit discharge investigations were performed this reporting period? 15
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 0

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

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- 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? 5
- F. How many active priority and non-priority construction sites were inspected this reporting period? 5
- G. How many construction related complaints were received this reporting period? 0

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: Bradley County Stormwater Policy Appendix B (Water Quality Buffer Zone Policy) 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.)? Land Disturbance of one (1) acre or greater
- D. How many development and redevelopment project plans were reviewed for this reporting period? 1
- E. How many development and redevelopment project plans were approved? 1
- F. How many permanent stormwater related complaints were received this reporting period? 0
- 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. Bradley County Stormwater Policy Section 4.2.F 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

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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. N/A

Changes to the program as required by the division to satisfy permit requirements. Due to COVID 19 and limited staffing the outfall mapping and dryweather screening for this reporting year was put on hold. We have planned for this to be performed in fall 2021 along with the dryweather screenings scheduled for reporting year 2021-2022.

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. See Bradley County Stormwater Program Annual Evaluation 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:

<u>Action</u>	<u>Construction</u>	<u>Permanent Stormwater</u>	<u>Illicit Discharge</u>	<u>In Your ERP?</u>	
Verbal warnings	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	# <u>1</u>	# <u>0</u>	# <u>2</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Citations with administrative penalties	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop work orders	# <u>2</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Withholding of plan approvals or other authorizations	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Additional Measures	# <u>0</u>	# <u>0</u>	# <u>0</u>	Describe: _____	

- 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?
Erosion Control Management and Twice Weekly Inspection logs not up to date or on site at time of inspection.

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. Benthics samples collected and evaluated 3 of 9 required samples during Aug-Sept 2020 as reported on the 2019-2020 annual report. No other TDEC sampling stations available for the remaining 2 required stations in Bradley County MS4.
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. Collections complete and results evaluated for 2016-2021 Non-Analytical Stream Monitoring period. All monitoring records retained in office.
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report. Yes No

11. Certification

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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."

D. Gary Davis,
Bradley County Mayor

Printed Name and Title



Signature

9/22/21

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



Bradley County Stormwater Program Annual Evaluation

Permit Year: 2020-2021

Today's Date: 7/16/2021

MCM 1 Public Outreach and Education

Strengths:

Good variety of items to distribute with Hotline information.

Areas of Improvement:

Improve the website and access to forms.

Changes Made:

Update website with fillable forms. Add more content and education information to website.

MCM 2 Public Participation and Involvement

Strengths:

Stream cleanups and Household Hazardous waste day had good participation.

Areas of Improvement:

Hold more events (post COVID lockdown) now that we are allowed to.

Changes Made:

Planning more events.



MCM 3 Illicit Discharge Detection and Elimination

Strengths:

Employee education (flyers in checks) and Hotline occur according to SWMP.

Areas of Improvement:

Complete dry weather screening and outfall mapping and update Hotspots.

Changes Made:

Must update Hotspots and Outfall mapping.

MCM 4 Construction Site Stormwater Runoff Control Program

Strengths:

Holding contractors accountable.

Allowing for adequate time to become compliant.

Areas of Improvement:

Changes Made:



MCM 5 Post-Construction Stormwater Runoff Control Program

Strengths:

Information to contractors regarding maintenance agreements.

Areas of Improvement:

Changes Made:

MCM 6 Pollution Prevention/Good Housekeeping for Municipal Operations

Strengths:

Quarterly inspections are on time.

Areas of Improvement:

Updated SOP's to municipal operators.
New contact with site contacts by stormwater coordinator.

Changes Made:

Update SOP's

Evaluated By:

 Sarah Jensen 7/19/2021
 Emily Harris 7/19/21

Attachment A
2020-2021 Public Information and Outreach

Date	Event	# of items distributed	# of people reached
10/17/2020	Household Hazardous Waste Collection Day	500+	791 households
11/2020	Employee IDDE Education Flyers	750+	750+
3/2021	Great American Cleanup Stream Cleanup	35+	15+
6/2021	Employee IDDE Education Flyers	750+	750+
6/2021	Hotspot Mailers	50+	50+