



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: Town of Smyrna		MS4 Permit Number: TNS075779
Contact Person: Greg Upham		Email Address: greg.upham@townofsmyma.org
Telephone: (615) 355-5701		MS4 Program Web Address: see section 3.C
Mailing Address: 315 S. Lowry Street		
City: Smyrna	State: TN	ZIP code: 37167

What is the current population of your MS4? ~52,324 (as per Chamber of Commerce)

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/wr-ws-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: Sediment control measures, including silt fences, storm drain protection, check dams, proper construction entrances, daily street cleaning, rock/fabric outlet aprons, rock rings & prompt/proper matting/seeding, plus other construction BMPs, such as litter control, cement mixer cleanouts, presence of porto-lets. Meanwhile, the Town facilitates quarterly grease receptacle inspections, annual detention pond inspections for erosion, monthly street sweeping, pesticide/fertilizer controlled applications in close proximity to waterways, & proper chemical storage & spill cleanups at all Town facilities. Finally, several litter control efforts, including Adopt-A-Stream stream cleanups, volunteer stream cleanups, facilitating quarterly Town staff Adopt-A-Highway events, & encouraging periodic & providing supplies for Adopt-A-Highway & Adopt-A-Roadway volunteer events. The MS4 staff has even cleaned up litter along thoroughfares adjacent to streams when needed (staff of two cleaned eight sites collecting 40 bags this permit year). Warning signs & cameras were mounted at three illegal dump sites, while Smyrna Police cited a few trash collectors for no covers. 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: The Town, along with four other Rutherford County MS4 programs, funds/supports the year-round Project WET program that targets specific pollutant sources. Plus, at all outreach events, a standard environmental education packet, comprised of 23 brochures & the Stones River watershed map, which target specific pollutant sources common to the MS4 jurisdiction, such as sediment loading, chemicals, pesticides, vehicle fluids, litter, Ecoli & other bacterial sources is distributed. Project WET program always has exhibits at Smyrna's annual Boat Day - WaterFest event as well as at Rutherford County's annual Waterfest. Yes No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: <https://www.townofsmyrna.org/departments/public-works/storm-water> Yes No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: Through letters to school principals, teachers have created Adopt-A-Stream efforts in five (5) public schools that are invited to participate in the Town's spring & fall stream cleanup campaigns. Local groups, such as Smyrna Rotary Club, Rutherford County Young Marines, Scout Troop 2019, & Lifepoint Baptist Church are emailed invitations to participate in stream cleanups, while the Town's website is used to invite organizations to adopt either state routes, via TDOT's Adopt-A-Highway program or local streets, via the Town's Adopt-A-Roadway program.
- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: The Town is a participant in the TAB Public Education Program where Facebook announcements are dispersed. The Town's involvement in Project WET was grossly lessened by the COVID pandemic, causing the cancelation of the Rutherford County Waterfest & all in-person workshops. Outdoor in-person Creek Explorations were held for 35 county teachers, including several from Smyrna. Thirteen (13) Smyrna students attended Days on the Farm, where water quality issues were presented. Thirty-three (33) Smyrna students attended June's in-person Creek Explorations. Seventy-six (76) persons learned about water quality issues at Smyrna's 15th Annual WaterFest (in tandem with the 13th Annual Boat Day). Due to the COVID pandemic, only one Adopt-A-Stream event was held, where 31 volunteers from Rock Springs Middle School removed 16 bags of litter from a one mile segment of Rock Springs Branch. Otherwise, there was only one other entity that participated in cleanups as Scout Troop 2019 of Murfreesboro had the following events: in the fall, it cleaned StoneCrest Medical Center rock berm, where 13 volunteers removed 22 bags of litter, then in the spring of 2021, this same scout troop cleaned the Davis Park wet weather conveyance, where 5 volunteers removed 7 bags of litter, but they still weren't done. During spring, 17 scouts removed 18 bags of litter from the StoneCrest Medical Center's rock berm (receives/holds litter from the entire I-24/Sam Ridley Pkwy. interchange). Adopt-A-Roadway events were held in the spring by LaVerqne High School, Plastic Omnium, & TSC Marketing. The Town's 13th Annual Boat Day-WaterFest was rescheduled for June 2021, where 380 participants (second highest attendance yet) paddled canoes & kayaks, while learning about water quality through the Project WET staffed exhibit. Meanwhile, the Town's water quality video, entitled 'Our Living Stream' is still being viewed on YouTube.com & the Town's website <https://youtu.be/UpiBS0hHMY8>. It was created in the spring of 2020 as a Boat Day replacement & has been viewed ever since.
- 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: Twenty (20) large envelopes, full of 23 environmental educational documents, were given to the 31 Rock Springs Middle School (Beta Club) AAS participants (5th, 6th, & 7th graders, siblings, & parents).

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

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? 432
- 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: Permit-required 5-year outfall assessments and, if needed, cleanups Yes No
- F. How many illicit discharge related complaints were received this reporting period? One
- G. How many illicit discharge investigations were performed this reporting period? One
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? One

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? 80 - 85
- F. How many active priority and non-priority construction sites were inspected this reporting period? 80 - 85
- G. How many construction related complaints were received this reporting period? none known

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: As per TDEC 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 are reviewed, while our standard abbreviated SWPPP, written by the Town's former contract engineering firm, is affixed to all plans for projects < 1 acre. These smaller projects receive the same level of review as any others.
- D. How many development and redevelopment project plans were reviewed for this reporting period? 57
- E. How many development and redevelopment project plans were approved? 40
- F. How many permanent stormwater related complaints were received this reporting period? none known
- G. How many enforcement actions were taken to address improper installation or maintenance? 2
- 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. _____ 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

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

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. In response to the 5-year

program audit, Street Department no longer uses soap, just high-pressured water, when cleaning equipment,

Other safety measures, regarding fuel tanks, were also completed as specified during the same program audit.
Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. 303.95 acres with 8,184 feet of ROW, found at the Jefferson Pike/I-840 interchange & west of I-24.

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. _____

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>#uncertain</u>	<u>#uncertain</u>	<u>#uncertain</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	<u>#2</u>	<u>#0</u>	<u>#1</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>#1</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?

Improper maintenance of construction entrances, infrequent street cleaning, & lack of storm drain fabric cleaning

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

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. Due to the COVID pandemic, necessary MTSU students were delayed from participating in the permit-required 5-year water quality monitoring in early fall of 2020, but were able to complete their water quality sampling efforts during late fall (Oct./Nov.) then winter (Jan./Feb.), & spring (Apr./May) of 2021. This effort is contracted through MTSU's Biology Department & will be completed during fall of 2021 when Dr. Frank Bailey provides the Town with the monitoring assessment [bacterial, physical, chemical & macroinvertebrate (spring only)] report. Albeit, above normal rainfall amounts allowed only five of the planned nine sites be analyzed for macroinvertebrates. Town staff assessed the physical parameters of the permit-required Visual Stream Assessment (VSA), using U.S. Geological Survey protocol, during fall of 2020. Town staff then assessed five chemical parameters, at these same 33 VSA sites, during spring of 2021. VSA sites are staff-selected within stream segments, sharing common characteristics (a nationwide EPA - requirement).
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. The permit-required 5-year Dry Weather Screening of all accessible outfall sites was completed at 315 outfalls in the summer of 2019.
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report. Yes No

11. Certification

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."

Mary Esther Reed, Mayor
Printed Name and Title


Signature

9-14-2021
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