



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 Kingsport		MS4 Permit Number: TNS075388	
Contact Person: David Edwards		Email Address: davidedwards@kingsporttn.gov	
Telephone: (423) 343-9845		MS4 Program Web Address: https://www.kingsporttn.gov/water-services/stormwater/	
Mailing Address: 225 West Center Street			
City: Kingsport	State: TN	ZIP code: 37660	

What is the current population of your MS4? 54,076

What is the reporting period for this annual report? July 1 2018 to June 30 2019

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: Monthly inspection frequency requirement, special pollutant abatement plans for pollutant hot spots, detailed review and approval of stormwater pollution prevention plans, Riparian buffer tree planting, downtown bioretention islands, buffer property deed restrictions. 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: MS4 and construction site runoff, illicit discharges including septage, sediment, oil and grease, applicators of pesticides, herbicides, and fertilizer, vehicle related fluids and illegal dumping. Yes No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: https://www.kingsporttn.gov/water-services/stormwater/ Yes No

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- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: Website, Facebook, public notices, billboards, newspaper articles, TNSA, and distribution of materials.
- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: Participation in TNSA Facebook ad campaign, Stormy mascot appearances and watershed classes for various elementary school groups, Tranbarger Branch and Madd Branch Clean-ups. Participated in Keep Kingsport Beautiful's Conservation Camp. Distributed 538 stormwater informational activity books to 4th graders in Kingsport City Schools. Distributed "Spotlight on Stormwater" informational booklets to lobbies of City Hall, Building Department, and Engineering Department.
- 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: Tranbarger Branch clean-up coordinated by in-house staff. Partnered with Keep Kingsport Beautiful on other stream clean-ups and trash pick-ups. Held 1st annual stormdrain art contest which was a great success. 2nd annual stormdrain art contest to be held fall 2019. Art contest received news advertising and story coverage, and billboard advertising. Free rain barrel program planned for fall 2019.

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 sewerhed of that outfall, and general direction of stormwater flow? Yes No
- C. How many outfalls have you identified in your storm sewer system? 930
- 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: Education of the public and targeted employees. Implementing standard operating procedures for municipal operations. Complaint tracking, site plan review, and inspections. Yes No
- F. How many illicit discharge related complaints were received this reporting period? 2
- G. How many illicit discharge investigations were performed this reporting period? 2
- 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

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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? 38

F. How many active priority and non-priority construction sites were inspected this reporting period? 38

G. How many construction related complaints were received this reporting period? 11

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: Refer to Ordinance Section 38-169(d) and Chapter 6 of the Stormwater Management Manual. 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? 17

E. How many development and redevelopment project plans were approved? 13

F. How many permanent stormwater related complaints were received this reporting period? 11

G. How many enforcement actions were taken to address improper installation or maintenance? 11

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

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- 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. Switch from TAB to Facebook ads program for Public Education and Outreach
Changes to the program as required by the division to satisfy permit requirements. n/a
Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. No newly annexed areas
- 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. Stormwater Management Plan available upon request 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>9</u>	# <u>9</u>	# <u>2</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	# <u>15</u>	# <u>15</u>	# _____	<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	# <u>10</u>	# <u>10</u>	# _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Withholding of plan approvals or other authorizations	# <u>1</u>	# <u>1</u>	# _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Additional Measures	# _____	# _____	# _____	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? sub-standard installation and maintenance of E&S controls

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. Continuation of study of Clark and Tranbarger Branch, including E. coli sampling, flow measurement, benthic macroinvertebrate collection and habitat surveys. July 2018 thru June 2019. Data available upon request.
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. Visual Stream Assessments done for Leslie Br., Madd Br., Miller Br., Tranbarger Br. July/Aug 2018. Visual Stream Assessments done for Gravelly Br., Little Horse Crk., Rock Springs Br. May/June 2019. Information available upon request.
- 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."

Patrick W. Shull, Mayor
Printed Name and Title

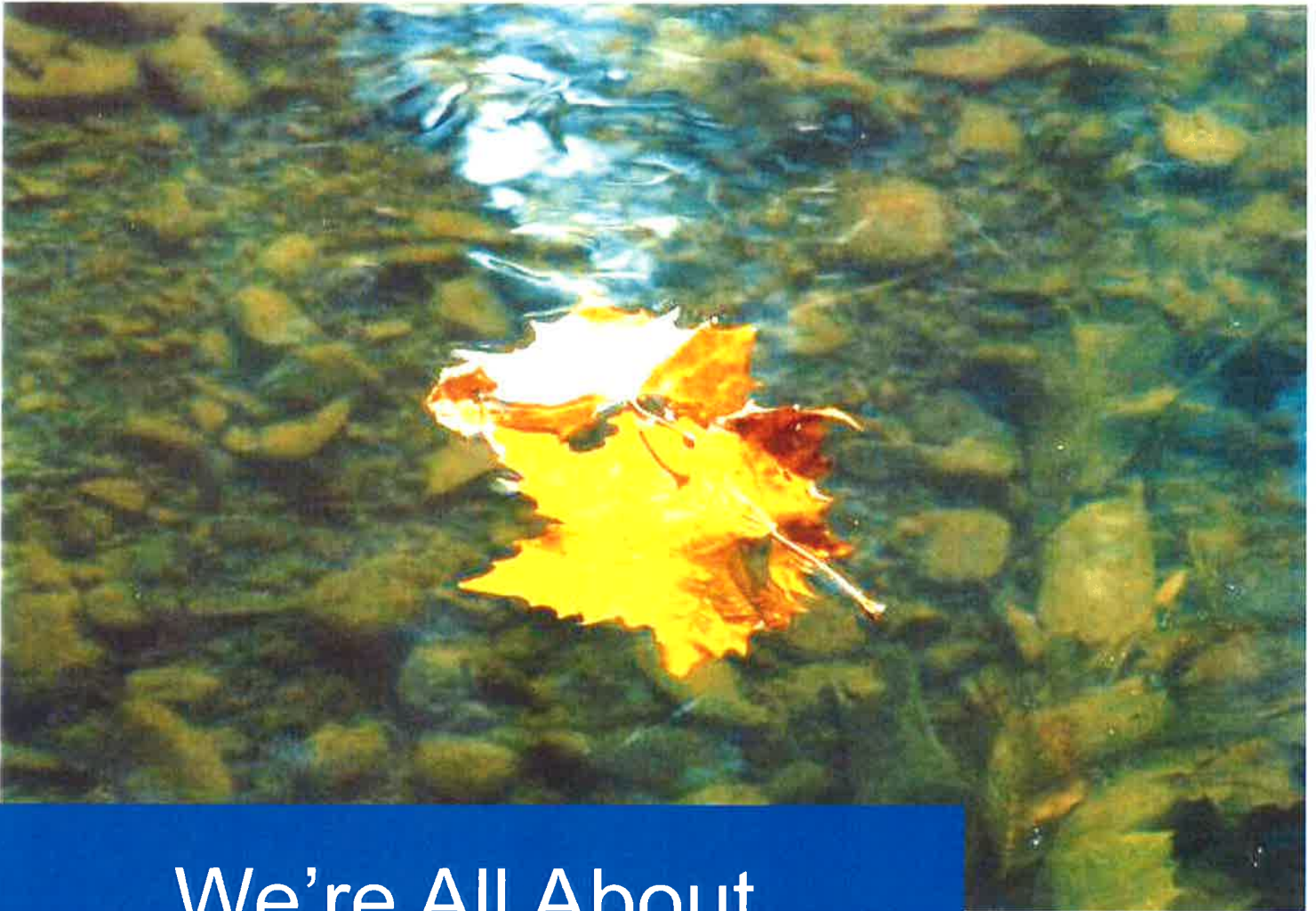
Patrick W. Shull
Signature

8/23/19
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

ATTEST:
[Signature]
DEPUTY CITY RECORDER
THE MODEL CITY 1917



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CLEAN Water



2019 MS4 Annual Report
STORMWATER MANAGEMENT

Solutions. Accomplishments. CLEAN Water

City of Kingsport Stormwater Utility

HISTORY November 2011 the Stormwater Management Utility was established as required by The Federal Clean Water Act for cities with more than 10,000 residents to implement a stormwater program to control and monitor polluted stormwater runoff.

PURPOSE To address stormwater pollution and flooding issues allowing the City to reduce runoff contaminants while prioritizing and initiating flood mitigation projects.

The utility is responsible for the operation, construction, maintenance and rehabilitation of stormwater facilities; for stormwater system planning, property acquisition related to stormwater management and for review of stormwater development plans for compliance with federal and state regulations, stormwater management ordinances, policies, procedures and manuals.

GOALS Comprehensively examine flooding and stormwater issues in the community;

Established resources and became a Tennessee Department of Environment and Conservation qualified local program, allowing the development community greater flexibility and timeliness in determining how best to meet federal mandates;

Adequately fund stormwater management needs at the lowest possible cost by proactive action;

Reduce flooding;

Improve stream habitat, conditions and water quality. Work toward de-listing of impaired streams within the City limits.



ACTIVITIES / ACCOMPLISHMENTS In accordance with the City's MS4 NPDES permit the Stormwater Division must file this report with the Tennessee Department of Environment and Conservation (TDEC) to document the activities completed in the past year. The activities noted are within the required program areas of the MS4 permit. The City's permit compliance activities are subject to periodic audits by TDEC.

Many activities have been completed that go beyond the requirements of the NPDES permit. This report provides opportunity for activity updates:

- In 2018 and 2019 the Stormwater Division sponsored stream clean-ups of Tranbarger Branch and Madd Branch. Groups of volunteers gathered multiple pickup truck loads of trash from in and around the creek. The Stormwater Division plans to sponsor yearly stream clean-ups in the future.
- Since 2018 the Stormwater Division's staff biologist has been monitoring water quality in streams within the Kingsport City limits. The City of Kingsport is creating baseline stream monitoring data over and above TDEC requirements. This data will lead to increased understanding of the impairments for individual streams and will better inform decision making regarding projects to restore streams to designated uses.

ACTIVITIES / ACCOMPLISHMENTS (continued)

- A bio retention basin was installed within the new parking lot at the Veterans Memorial project to remove suspended solids and treat the rainwater before it is discharged to Madd Branch, a 303(d) listed stream.
- Implementation of the 'YourGOV' cell phone app has provided citizens with the ability for real time input of drainage issues and concerns. This app gives citizens a means to notify City staff of drainage problems such as clogged drains and pipes, illicit discharges, and construction site issues. 'YourGov' requests as well as any subsequent repair work by City staff is documented within the Cartegraph asset management system. Cartegraph data allow City leaders to optimize decision making processes and increase level of service to citizens.
- Inspections of certain 'hot spots' before and after significant storm events are managed via the Cartegraph asset management system. Crews are dispatched to inspect and clean obstructions from culverts and catch basins that are known to trap debris.
- Many long standing drainage issues in the City have been resolved since formation of the stormwater utility. The drainage system for the downtown area is controlled by a non-expandable single box culvert, however we are coordinating with the Planning Department as we proceed with the downtown area study.
- In 2019 the City completed the Bloomington Drive culvert replacement project. This project removed a failing multi-barrel box culvert on Gravelly Branch, a 303(d) listed stream, and replaced it with a clear span pre-cast structure so the natural stream channel can be reestablished through the structure.
- In 2018 the City stormwater division partnered with a consultant team to incorporate a stormwater park in the City's downtown area. The stormwater park is part of a larger masterplan and will provide flooding and water quality improvements in the downtown area. Information about the City's masterplan can be found at <https://downtownkingsportplan.com/>
- Urban forestry program funded through the City's CIP program. In spring 2019 two acres of riparian area along Reedy Creek, a 303(d) listed stream, was planted with native trees. While this project helped to restore riparian buffer along Reedy Creek it also removed this acreage from the City's landscape maintenance area, saving City resources.
- In 2018 the stormwater division teamed with the City's Parks and Rec department and a local consultant to prepare and submit for a Great Urban Parks Grant from the National Recreation and Parks Association. The focus of the grant is design and construction of Green Infrastructure within public park space.
- Rotherwood culvert rehabilitation project. This project sought to rehabilitate two existing 60" metal culverts in the City's Rotherwood Estates neighborhood. Through the use of innovative materials, in-house construction crews were able to rehabilitate the existing culverts in place without any disruption or damage to the existing stream.
- In 2018 the City teamed with a local consultant to begin planning a regenerative stormwater conveyance and outdoor classroom on a City owned parcel adjacent to one of the City's elementary schools. The regenerative stormwater conveyance will provide water quality treatment to 20+ acres of developed land which would otherwise remain untreated. The outdoor classroom will provide educational opportunities for students regarding water quality and the environment.
- City stormwater employees currently hold Board of Directors and Regional Chair leadership positions with the Tennessee Stormwater Association.
- Improvements to come in 2019/2020 include: bioretention projects in the downtown area, rain barrel give away and educational program, continuation of the stream clean-up program and the storm drain art contest, and long-term CIP masterplanning for the Stormwater Division.

ACTIVITIES / ACCOMPLISHMENTS (continued)



Bloomington Drive culvert replacement



Tranbarger Branch Clean-up 2019



Stormy at Public Works Day 2019



KKB Conservation Camp 2019

We're All About
CLEAN Water





TOWN OF JONESBOROUGH

123 BOONE STREET
JONESBOROUGH, TN 37659
TELEPHONE (423) 753-1030
FAX (423) 753-1074



September 26, 2019

Mr. Brown Patton
Tennessee Department of Environment and Conservation
Division of Water Resources
2305 Silverdale Drive
Johnson City, TN 37601

Dear Mr. Patton:

Enclosed please find a signed copy of the Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report for the Town of Jonesborough.

Sincerely,

A handwritten signature in cursive script that reads "Sheila Watson".

Sheila Watson
Administrative Assistant

Enclosure



AGENDA ACTION FORM

Proposed Stormwater Annual Compliance Report

To: Board of Mayor and Aldermen
From: Chris McCartt, City Manager

Action Form No.: AF-192-2019
Work Session: August 19, 2019
First Reading: NA

Final Adoption: August 20, 2019
Staff Work By: David Edwards
Presentation By: Ryan McReynolds

Recommendation:

Approve the Resolution.

Executive Summary:

Kingsport's stormwater permit requires that the municipal separate storm sewer system (MS4) submit an annual report to the Tennessee Department of Environment and Conversation (TDEC) by September 30 of each calendar year that covers the previous compliance year. A requirement states that prior to submitting the annual report to TDEC, the MS4 must publicly present the annual report for suggestions and comment. Therefore on August 12, 2019 the annual report was posted to the city's website at <https://www.kingsporttn.gov/wp-content/uploads/2019/08/City-of-Kingsport-MS4-Annual-Report-2019.pdf> where the public is invited to submit questions and comments regarding the City of Kingsport's 2019 MS4 Annual Report.

Attachments:

- 1. Resolution
- 2. Permit Requirements/Activities
- 3. Proposed Annual Report

Funding source appropriate and funds are available: _____

	Y	N	O
Adler	—	—	—
Cooper	—	—	—
Duncan	—	—	—
George	—	—	—
Otteman	—	—	—
Phillips	—	—	—
Shull	—	—	—

