



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: Belle Meade		MS4 Permit Number: TNS075159
Contact Person: Larry Smith		Email Address: lsmith@citybellemeeade.org
Telephone: (615) 297-6041		MS4 Program Web Address: http://www.citybellemeeade.org/stormwater
Mailing Address: 4705 Harding Road		
City: Nashville	State: TN	ZIP code: 37205

What is the current population of your MS4? 2,899

What is the reporting period for this annual report? July 1 2021 to June 30 2022

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: The City consistently educates its citizens through the newsletter and website about the need for proper sewer grinder pump care to help keep the sewer disposal system working well thereby often preventing the need for back up septic systems and leach fields to be used. Newsletter articles about not disposing of landscape debris in streams and channels help to target nutrient pollution. ☒ 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 City approach targets two main audiences: the development community (contractors, architects, engineers) and residents. For sediment and other construction-related potential pollution, the City educates contractors during the land disturbance permit process. The monthly City newsletter includes stormwater-related topics for residential education for at least 2 months per year. ☒ Yes ☐ No

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

- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: <http://www.citybellemead.org/stormwater> ☒ Yes ☐ No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: The City uses emails and the newsletter to announce stormwater related events or meetings. The City's website is used to advertise public involvement opportunities such as commissioner meetings.
- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: The monthly newsletter contained several stormwater-related articles this year including: October 2021 (Guidelines for Draining Your Pool or Spa); January 2022 (Stormwater Rain and Snow); February 2022 (From the Public Works Department); March 2022 (Culvert Maintenance); April 2022 (Spring Reminders); June 2022 (Stormwater Fees to Increase This Year). Additionally, the City worked on Belle Meade Together (<https://engagekh.com/belle-meade-together>), a master planning exercise, that engaged over 400 citizens through various virtual and in-person venues. The master planning exercise intentionally included a stormwater management component. A public meeting was held February 24, 2022 to discuss stormwater infrastructure improvements, specifically in the Walnut Drive and Lynnwood Boulevard, Lynnwood Terrace, Lynnwood Lane areas.
- 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: Walnut Drive: A public stormwater meeting was held on February 24th, 2022 to discuss the stormwater improvement plans that were previously proposed on the street to deal with run-on stormwater and ideas for revisiting this project (since no project was constructed in 2015 when the first analyses was performed). Belle Meade Land Disturbance Permit Inspections: Third party EPSC inspections were completed on all active land disturbance permit locations in March 2022, April 2022 and May 2022. Several notices of violations were sent to correct sediment releases and buffer non-compliance on construction sites. As the inspections progressed, fewer deficiencies were observed.

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? 60
- 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: Once per permit cycle the outfalls are screened for illicit discharges. Staff have been educated on illicit discharges and inspect them during normal activities. ☒ 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

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

- 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? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> 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)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> 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? 8
- F. How many active priority and non-priority construction sites were inspected this reporting period? 36
- G. How many construction related complaints were received this reporting period? 12

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
- B. Do you have an ordinance or other regulatory mechanism requiring:
- | | | |
|---|---|-----------------------------|
| Site plan review and approval of new and re-development projects? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| A process to ensure stormwater control measures (SCMs) are properly installed and maintained? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Permanent water quality riparian buffers? If yes, specify requirements: <u>See attached</u> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> 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.)? See attached
- D. How many development and redevelopment project plans were reviewed for this reporting period? 31
- E. How many development and redevelopment project plans were approved? 21
- F. How many permanent stormwater related complaints were received this reporting period? 4
- G. How many enforcement actions were taken to address improper installation or maintenance? 4
- 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

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

- 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

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:

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

Modifications or replacement of an ineffective activity/control measure. None

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. None - annexation is not applicable for the City due to Metro Nashville charter

- 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. Given the unique residential characteristic of the City in that only five properties are non-residential and residential development in the City is pervasive, Minimum Control Measure 4 - Construction Runoff Control is a very visible way in which the MS4 Permit requirements are made known to the general public. This year, the City used a consultant to supplement their construction runoff control inspection program. It was successful in two primary ways: 1) contractors, homeowners, and engineers were educated on proper EPSC control and inspection requirements, and 2) the number of deficiencies steadily dropped as the inspections continued because contractors were taking corrective action. This inspection program success was one of the topics of discussion when City staff and the consulting engineer discussed the effectiveness of the permit and the anticipated permit on June 14, 2022 in our program review meeting. Additionally, City staff noted the effectiveness of stormwater-centric newsletter articles, many of which were written in response to questions received at City Hall from the citizens. The need for additional public meetings to educate citizens similar to the one held February 24, 2022 was also apparent given the positive feedback from citizens who attended that and appreciated the opportunity to speak face to face about their stormwater concerns.

☒ Yes

☐ No

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

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>30</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	# <u>37</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Citations with administrative penalties	# <u>12</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: <u>N/A</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?
Lack of attention to detail to permitting requirements and EPSC maintenance.

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. None.
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. None.
- 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."

R.L. Moore, Mayor
Printed Name and Title

[Signature]
Signature

9/29/2022
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

City of Belle Meade, TN
Municipal Separate Storm Sewer System (MS4) Annual Report
Report Attachments

ATTACHMENTS

City of Belle Meade, TN
Municipal Separate Storm Sewer System (MS4) Annual Report
Report Attachments

**Section 2.A. - List of Waters with Unavailable Parameters in Jurisdiction Based on TDEC Viewer
as of September 2022**

Waterbody Name	Waterbody Description	Waterbody I.D. #	Cause(s)	Source Name(s)
Richland Creek	Briley Parkway to Jocelyn Hollow Branch	TN05130202314_2000	Other anthropogenic substrate alterations	Municipal (Urbanized high density area)
			<i>Escherichia coli</i>	Sanitary Sewer Overflows (Collection System Failures)
			Phosphorus (Total)	Municipal (Urbanized high density area)
			Nitrate/Nitrite (Nitrite + Nitrate as N)	Municipal (Urbanized high density area)
Richland Creek	Jocelyn Hollow Branch to headwaters	TN05130202314_3000	Phosphorus (Total)	Municipal (Urbanized high density area)
			Nitrate/Nitrite (Nitrite + Nitrate as N)	Municipal (Urbanized high density area)
			Other anthropogenic substrate alterations	Municipal (Urbanized high density area)
			<i>Escherichia coli</i>	Municipal (Urbanized high density area)
Sugartree Creek	Richland Creek to headwaters	TN05130202314_0400	<i>Escherichia coli</i>	Municipal (Urbanized high density area)
			Phosphorus (Total)	Municipal (Urbanized high density area)
			Dissolved Oxygen	Municipal (Urbanized high density area)
			Other anthropogenic substrate alterations	Municipal (Urbanized high density area)
			Nitrate/Nitrite (Nitrite + Nitrate as N)	Municipal (Urbanized high density area)
Jocelyn Hollow Branch	Richland Creek to headwaters	TN05130202314_0800	<i>Escherichia coli</i>	Municipal (Urbanized high density area)
			Nitrate/Nitrite (Nitrite + Nitrate as N)	Municipal (Urbanized high density area)
			Phosphorus (Total)	Municipal (Urbanized high density area)

City of Belle Meade, TN
Municipal Separate Storm Sewer System (MS4) Annual Report
Report Attachments

Section 2.B. TMDLs with Waste Load Allocations for MS4 Discharges

Summary (cont'd) of TMDLs, WLAs, & LAs expressed as daily loads for Impaired Waterbodies in the Lower Cumberland Watershed (HUC 05130202)

HUC-12 Subwatershed (05130202) or Drainage Area (DA)	Impaired Waterbody Name	Impaired Waterbody ID	TMDL	MOS	WLAs			LAs
			[CFU/day]	[CFU/day]	WWTFs ^a	Leaking Collection Systems	MS4s	
					[CFU/day]	[CFU/day]	[CFU/day/acre]	[CFU/day/acre]
0105	Earthman Fork	TN05130202010 – 0400	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$5.158 \times 10^5 \cdot Q$	$5.158 \times 10^5 \cdot Q$
	Ewing Creek	TN05130202010 – 0800	$1.20 \times 10^{10} \cdot Q$	$1.20 \times 10^5 \cdot Q$	NA	0	$1.273 \times 10^5 \cdot Q$	$1.273 \times 10^5 \cdot Q$
	Little Creek	TN05130202010 – 0700	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$6.263 \times 10^5 \cdot Q$	$6.263 \times 10^5 \cdot Q$
	Whites Creek	TN05130202010 – 1000	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$5.251 \times 10^5 \cdot Q$	$5.251 \times 10^5 \cdot Q$
0106	Bosley Springs Branch	TN05130202314 – 0300	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$1.434 \times 10^7 \cdot Q$	$1.434 \times 10^7 \cdot Q$
	Jocelyn Hollow Branch	TN05130202314 – 0800	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$1.249 \times 10^7 \cdot Q$	$1.249 \times 10^7 \cdot Q$
	Murphy Road Branch	TN05130202314 – 0200	$1.20 \times 10^{10} \cdot Q$	$1.20 \times 10^5 \cdot Q$	NA	0	$2.166 \times 10^7 \cdot Q$	$2.166 \times 10^7 \cdot Q$
	Richland Creek	TN05130202314 – 1000	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$1.214 \times 10^6 \cdot Q$	$1.214 \times 10^6 \cdot Q$
	Richland Creek	TN05130202314 – 2000	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$7.055 \times 10^5 \cdot Q$	$7.055 \times 10^5 \cdot Q$
	Richland Creek	TN05130202314 – 3000	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$1.605 \times 10^5 \cdot Q$	$1.605 \times 10^5 \cdot Q$
	Sugartree Creek	TN05130202314 – 0400	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$6.917 \times 10^5 \cdot Q$	$6.917 \times 10^5 \cdot Q$
	Unnamed Tributary to Richland Creek	TN05130202314 – 0100	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$1.457 \times 10^5 \cdot Q$	$1.457 \times 10^5 \cdot Q$
	Vaughns Gap Branch	TN05130202314 – 0700	$1.20 \times 10^{10} \cdot Q$	$1.20 \times 10^5 \cdot Q$	NA	0	$5.950 \times 10^5 \cdot Q$	$5.950 \times 10^5 \cdot Q$
	Vaughns Gap Branch	TN05130202314 – 0750	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$1.140 \times 10^7 \cdot Q$	$1.140 \times 10^7 \cdot Q$
0201	Mill Creek	TN05130202007 – 5000	$1.20 \times 10^{10} \cdot Q$	$1.20 \times 10^5 \cdot Q$	NA	0	$4.876 \times 10^5 \cdot Q$	$4.876 \times 10^5 \cdot Q$
0202	Finley Branch	TN05130202007 – 0300	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$5.951 \times 10^7 \cdot Q$	$5.951 \times 10^7 \cdot Q$
	Mill Creek	TN05130202007 – 3000	$1.20 \times 10^{10} \cdot Q$	$1.20 \times 10^5 \cdot Q$	NA	0	$2.467 \times 10^5 \cdot Q$	$2.467 \times 10^5 \cdot Q$
	Pavillion Branch	TN05130202007 – 1500	$2.30 \times 10^{10} \cdot Q$	$2.30 \times 10^5 \cdot Q$	NA	0	$3.685 \times 10^7 \cdot Q$	$3.685 \times 10^7 \cdot Q$

City of Belle Meade, TN
Municipal Separate Storm Sewer System (MS4) Annual Report
Report Attachments

Section 2.C. - List of Exceptional Tennessee Waters (ETWs) to which the MS4 discharges

Waterbody Name	Waterbody Description	HUC	Reason for Inclusion
Richland Creek Unnamed Tributary	Headwater tributary of Richland Creek from mouth to origin	05130202	State threatened Water Stitchwort
Richland Creek	From just D/S of The Temple (5015 Harding Pike) to upstream boundary of Belle Meade Mansion State Historic Area	05130202	Belle Meade Mansion State Historic Area and State threatened Water Stitchwort
Sugartree Creek	Sugartree Creek from confluence with Richland Creek to Harding Place	05130202	State endangered streamside salamander and water stitchwort

Section 6.B. – Water Quality Riparian Buffer Requirements

12-209. Water quality buffers. (1) Scope. A water quality buffer shall be established, protected, and maintained along all community waters in areas of new development and redevelopment for which a land disturbance permit, as defined in § 12-205, is required in accordance with Table 3 or Table 4 below, as applicable. The goal of the water quality buffer is to preserve undisturbed vegetation that is native to the streamside habitat in the area of the project. Vegetated, preferably native, water quality buffers protect water bodies by providing structural integrity and canopy cover, as well as stormwater infiltration, filtration and evapotranspiration.

Section 6.B. (con't) – Water Quality Riparian Buffer Requirements

Change 6, April 27, 2016

12-36

Table 3 - Water Quality Buffer Requirements for Sites That Disturb <1 acre (no CGP coverage required)		
Community water characteristics	Permanent buffer	During construction (temporary) buffer
All community waters	20-feet (City-approved buffer enhancement plan required for temporary buffer encroachment)	20-feet (City-approved buffer enhancement plan required for temporary buffer encroachment)

Table 4-Water Quality Buffer Requirements for Sites That Require CGP Coverage		
Community water characteristics	Permanent buffer	During construction (temporary) buffer
Community water drainage area <1 square mile and <u>not</u> designated as impaired or an Exceptional Tennessee Water (ETW)	30-feet	30-feet (Can be established on an average basis as long as minimum is 15-feet. City approved buffer enhancement plan required for CGP-allowable, temporary buffer encroachment.)
Community water drainage area <1 square mile and designated as impaired or an Exceptional Tennessee Water (ETW)	30-feet	60-feet (Can be established on an average basis as long as minimum is 30-feet.)
Community water drainage area >1 square mile and <u>not</u> designated as impaired or an Exceptional Tennessee Water (ETW)	60-feet (Can be established on an average basis as long as minimum is 30-feet.)	30-feet (Can be established on an average basis as long as minimum is 15-feet. City approved buffer enhancement plan required for CGP-allowable, temporary buffer encroachment.)
Community water drainage area >1 square mile and designated as impaired or an Exceptional Tennessee Water (ETW)	60-feet (Can be established on an average basis as long as minimum is 30-feet.)	60-feet (Can be established on an average basis as long as minimum is 30-feet.)
Note: "Impaired" refers to community water that is impaired for siltation and habitat alteration.		

Section 6.C. – Water Quality Riparian Buffer Requirements

(2) **Land development.** This section shall be applicable to all land development, including, but not limited to, site plan applications, subdivision applications, and land disturbance applications. These standards apply to any new development or redevelopment site according to Table 1 below:

Change 6, April 27, 2016

12-17

Table 1 - Land Disturbance Permit (LDP)					
Total Disturbed area	LDP Required?	City forms/checklists to complete	Stormwater Management Plan required?	Construction General Permit (CGP) coverage required?	Water Quality Buffer Required?
<10,000 ft	No	None	No	No	No
10,000 ft ² - 0.99 acre	Yes	General, Checklist 1-3	Yes; See Checklist 3 and Table 2	No	See Table 3
1 acre or more	Yes	General, Checklist 1-3	Yes; See Checklist 3 and Table 2	Yes	See Table 4