



# City Council Work Session Meeting Agenda

April 21, 2026 at 5:00 PM

Jefferson City Municipal Building

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## 1. Call to Order

Opening Prayer

Pledge of Allegiance

## 2. Citizen Comments (Citizens should state their name, address, and limit comments to five minutes.)

## 3. Communications from the Mayor

## 4. Reports from Committees, Council Members, and other Officers

a. Presentation of Employees of the Quarter - **Holly Cox**

## 5. Items for Discussion

a. Consider bids for Two HVAC Units at the Community Center - **Kevin Bolden**

b. Request Purchase of Zero Turn Mower - **Porter Massengill**

c. Consider Hazardous Duty Supplemental Benefit Study - **Holly Cox**

d. Consider Water Plant Fire Access Control - **Allen Gillespie**

e. Consider Change Order #8 for Fire Station #2 - **Lee Turner**

f. Request use of JCFD Fire Station 2 Contingency Fund for IT/Low Voltage Needs - **Lee Turner & Allen Gillespie**

g. Consider Proposed Updated Stormwater Ordinance - **Jeff Houston**

h. Consider ETDD Planning Services Contract for (FY27) - **Jeff Houston & James Gallup**

i. Request Approval of ETDD Contract for Administration for Downtown Improvement Grant- **James Gallup**

j. Presentation of Proposed FY26-27 Budget - **James Gallup & Bettina Chandler**

## 6. Appointments

a. **Parks and Recreation Committee** - The members are appointed for a two-year term by the City Council. There are two positions which will expire soon. Ms. Hunter Dolan's term will expire in April of 2026, and she does not want to be reappointed. Mr. Drew Eudy's term will expire in May of 2026.

## **7. Calendar/Upcoming Events**

- a.** The April HZC/Regional Planning Commission/BZA meeting will be on Monday, April 27, 2026.
- b.** A Special Council Meeting will be on Monday, April 27, 2026.
- c.** The May City Council Meeting will be on Monday, May 4, 2026.
- d.** The May HZC/Regional Planning Commission/BZA meeting will be on Monday, May 18, 2026.
- e.** The May Work Session will be on Tuesday, May 19, 2026.

## **8. Announcements**

- a.** April 25th - JCPL's America's 250th Anniversary Celebration @ City Center from 9:30am to 2pm
- b.** April 25th - American Flag Retirement Ceremony; Flag preparation at 1pm; Program at 3pm
- c.** April 28th - Jefferson City Earth/Arbor Day Celebration @ JC Library from 10:30am to 2pm
- d.** May 7th - National Day of Prayer at City Center with the Jefferson City Ministerial Association at 8am

## **9. Adjourn**



**Parks & Recreation Department**  
**AGENDA ITEM REPORT**

**TO:** City Council  
**FROM:** Parks & Recreation  
**DATE:** 4-6-2026  
**SUBJECT:** Accept bids for (2) HVAC units at the Community Center

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**BACKGROUND:**

- This project involves the replacement of (2) original HVAC units at the Jefferson City Community Center.
- This will help with the heating and cooling of the Aerobics Room, three offices, and the meeting room.

**FISCAL IMPACT:**

- This is included in the 2025-2026 budget. The total amount budgeted for the project was \$50,000.00.
- The cost for the completion of this project is \$45,000.00. It comes in \$5,000.00 under budget.

**REQUEST/RECOMMENDATION:**

I'm requesting council to accept the bids from RT Service.

**ATTACHMENTS:**

### BID TABULATION RECORD

PURPOSE OF BID: # 26-07 JCCC HVAC System Replacement

DATE & TIME: 3-24-24 @ 3 pm

BIDDER

TOTAL BID PRICE

BIDDER	TOTAL BID PRICE
RT Services	
Hall / office area	22,500.00
Aerobic / Community	22,500.00
	<u>45,000.00</u>



## **PUBLIC WORKS DEPARTMENT AGENDA ITEM REPORT**

**TO:** Mayor and City Council  
**FROM:** Porter Massengill, Public Works Director  
**DATE:** April 16, 2026  
**SUBJECT:** Purchase of Zero Turn Mower

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**BACKGROUND:**

- The Council approved \$12,000 for the purchase of a flail mower for the Street Department in the current FY 25-26 Budget.
- It has been determined that a zero turn mower with a six-foot deck instead would be more efficient for mowing ROW's on Highway 92 and 11-E. This mower could also be used to mow the Public Works Building area.

**FISCAL IMPACT:**

Approval is needed for this purchase because the dollar amount of this expenditure is greater than \$10,000.

**REQUEST/RECOMMENDATION:**

We request permission for this purchase and to waive the bid process, as it is an Omnia quote.

**ATTACHMENTS:**

Omnia quote for a zero-turn mower.

Section 5, Item b.



Fw: Quote #1083117 from Outdoor Power Plus

From Brian Rhodes <brhodes@jeffersoncitytn.gov>  
Date Tue 3/24/2026 12:53 PM  
To Porter Massengill <pmassengill@jeffersoncitytn.gov>

From: sales@exmark.com <sales@exmark.com>  
Sent: Tuesday, March 24, 2026 12:45 PM  
To: Brian Rhodes <brhodes@jeffersoncitytn.gov>  
Cc: outdoorpowerplus16@gmail.com <outdoorpowerplus16@gmail.com>; outdoorpowerplus16@gmail.com <outdoorpowerplus16@gmail.com>; OUTDOORPOWERPLUS16@GMAIL.COM <OUTDOORPOWERPLUS16@GMAIL.COM>  
Subject: Quote #1083117 from Outdoor Power Plus

**\*\*\*\*\*CAUTION\*\*\*\*\***  
THIS EMAIL WAS GENERATED FROM OUTSIDE OF THE CITY OF JEFFERSON CITY. DO NOT CLICK LINKS OR OPEN ATTACHMENTS UNLESS YOU RECOGNIZE THE SENDER AND KNOW THE CONTENT IS SAFE!



**Prepared For**

BRIAN RHODES  
CITY OF JEFFERSON CITY  
112 CITY CENTER DRIVE  
JEFFERSON CITY, TN 37760  
BRHODES@jeffersoncitytn.gov  
865-591-4958

**Prepared By**

Mary Gatlin  
Outdoor Power Plus (#150S705)  
1025 W Hwy 11 E  
New Market, TN 37820  
(865) 262-9577  
outdoorpowerplus16@gmail.com

Quote # **1083117**  
Quote Type **OMNIA**  
Created On  
**3/24/2026**

**Equipment**

Lazer Z S-Series 25.5 HP\* Kaw FX801V w/ 72" UltraCut Series 4 Deck, Susp Seat & Wide Semi-Pneum Tires

CSP	Price	Quantity	Extended Price
\$14,599.00	\$11,749.00	1	\$11,749.00

Notes  
ATTENTION BRIAN RHODES

Equipment Total	\$11,749.00
Sales Tax (9.750 %)	<del>\$1,145.53</del>
Total	<del>\$12,894.53</del>

Prices subject to change.  
Prices shown are in USD.



**FINANCE DEPARTMENT  
AGENDA ITEM REPORT**

**TO:** Mayor and City Council  
**FROM:** Holly Cox, Human Resources  
**DATE:** April 16, 2026  
**SUBJECT:** TCRS Hazardous Duty Supplemental Benefit Study

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**BACKGROUND:**

- This study is to evaluate the potential cost and impact of adding the Hazardous Duty Supplemental Benefit for eligible employees. The study will provide the City with the information needed to determine whether this benefit would be feasible and sustainable in the future.
- Approval of the attached resolution does not commit the City to implementing the benefit. It simply authorizes the Tennessee Consolidated Retirement System (TCRS) to perform the study and provide the necessary information for Council’s consideration.

**FISCAL IMPACT:**

The cost for the proposed study is \$410.

**REQUEST/RECOMMENDATION:**

I am requesting Council approval of the attached resolution authorizing the TCRS to complete a Hazardous Duty Supplemental Benefit study during Fiscal Year 2026-27.

If approved, I will coordinate with TCRS to have the study completed during FY 2026-27 and will bring the results back to Council for consideration in the FY27-28 Operating Budget.

**ATTACHMENTS:**

Proposed Resolution

**Tennessee Consolidated Retirement System**

A RESOLUTION to authorize and appropriate funds for an actuarial study of the cost associated with a hazardous duty supplemental benefit pursuant to Tennessee Code Annotated, Section 8-36-212.

WHEREAS, Tennessee Code Annotated, Section 8-36-212 (the "Act") allows participating political subdivisions to establish a hazardous duty supplemental benefit, in addition to the member's retirement allowance, for all its eligible public safety officers, as defined in the Act; and

WHEREAS, said Act provides that political subdivisions may establish a hazardous duty supplemental benefit for employees who meet the eligibility requirements in the Act; and

WHEREAS, prior to the establishment of this supplemental benefit, the Act requires a resolution by the political subdivision's chief governing body authorizing and agreeing to pay for the cost of an actuarial study to determine the liability associated with the establishment of this supplemental benefit;

NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Jefferson City, Tennessee  
(Name of Governing Body) (Name of Political Subdivision)

hereby authorizes and appropriates funds for an actuarial study of the liability associated with authorization of the provisions of the Act.

STATE OF TENNESSEE

COUNTY OF JEFFERSON

I, \_\_\_\_\_, clerk of the City Council of the City of Jefferson City, Tennessee  
(Name of Governing Body) (Name of Political Subdivision)

do hereby certify that this is a true and exact copy of the foregoing resolution that was approved and adopted at a meeting held on the \_\_\_\_\_ day of \_\_\_\_\_, 2026, the original of which is on file in this office. I further certify that \_\_\_\_\_ members voted in favor of the resolution and that \_\_\_\_\_ members were present and voting.

IN WITNESS THEREOF, I have hereunto set my hand, and the seal of the City of Jefferson City.  
(Name of Political Subdivision)

\_\_\_\_\_  
As Clerk of the Board, as aforesaid

SEAL



## INFORMATION TECHNOLOGY DEPARTMENT AGENDA ITEM REPORT

**TO:** Mayor and City Council  
**FROM:** Allen Gillespie, IT Manager  
**DATE:** April 16, 2026  
**SUBJECT:** Water Plant Access Control (SecuFire) Project – Phase 2 Approval and Bid Waiver

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### BACKGROUND:

- Request approval to proceed with the Water Plant Access Control Phase 2 project with SecuFire, LLC, for a total cost of \$15,277.68.
- Request waiver of the formal bid process to continue with the City's existing vendor. Phase 1 has been negotiated by IT to be completed at no cost to the City as part of approval of the four fire alarm projects at City Center, contingent upon Council approval. No work has begun on this project, and all phases are pending formal Council approval. Continuing with SecuFire provides continuity, compatibility with the proposed system, and avoids duplicative cost and delay at a critical infrastructure facility.

### FISCAL IMPACT:

Phase 1: \$0.00 (pro bono as negotiated). Phase 2: \$15,277.68 one-time project cost to complete the system.

### REQUEST/RECOMMENDATION:

Approve the Water Plant Access Control Phase 2 project in the amount of \$15,277.68 and authorize waiver of the bid process to allow SecuFire, LLC, as the existing vendor, to complete the project.

### ATTACHMENTS:

Quote from SecuFire





## FIRE DEPARTMENT AGENDA ITEM REPORT

**TO:** Mayor and City Council  
**FROM:** Lee Turner, Fire Chief  
**DATE:** April 16, 2026  
**SUBJECT:** Proposed Change Order #8

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**BACKGROUND:**

- Change Order #8 reduces the contract by \$8,750 to change from Pad Mounted Transformer to Pole Mounted Transfer.

**FISCAL IMPACT:**

The net price change for the project will now be (\$30,813.53). The new contract sum will be \$5,171,986.47.

**REQUEST/RECOMMENDATION:**

We are requesting Change Order #8 to be approved as presented and recommended by the City’s Architect.

**ATTACHMENTS:**

Change Order #8

# AIA® Document G701® – 2017

## Change Order

<b>PROJECT:</b> <i>(Name and address)</i> Jefferson City Fire Station No. 2  1075 Odyssey Road Jefferson City, TN 37760	<b>CONTRACT INFORMATION:</b> Contract For: Jefferson City Fire Station No. 2 Date: 05-12-2025	<b>CHANGE ORDER INFORMATION:</b> Change Order Number: 008  Date: 02-10-2026
<b>OWNER:</b> <i>(Name and address)</i> City of Jefferson City, TN 112 City Center Drive Jefferson City, TN 37760	<b>ARCHITECT:</b> <i>(Name and address)</i> Allen & Hoshall 5746 Marlin Road Suite 102 Chattanooga, TN 37411	<b>CONTRACTOR:</b> <i>(Name and address)</i> McSpadden Inc P. O. Box 948 Dandridge, TN 37725

**THE CONTRACT IS CHANGED AS FOLLOWS:**  
*(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)*

Change from Pad Mounted Transformer to Pole Mounted Transformer--Deduct (8,750.00)

The original Contract Sum was	\$ 5,202,800.00
The net change by previously authorized Change Orders	\$ (22,063.53)
The Contract Sum prior to this Change Order was	\$ 5,180,736.47
The Contract Sum will be decreased by this Change Order in the amount of	\$ 8,750.00
The new Contract Sum including this Change Order will be	\$ 5,171,986.47

The Contract Time will be increased by Fourteen (14) days.  
The new date of Substantial Completion will be 07-26-2026

**NOTE:** This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

**NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.**

		_____
ARCHITECT <i>(Signature)</i>	CONTRACTOR <i>(Signature)</i>	OWNER <i>(Signature)</i>
Robert M Thew, Project Architect	Charles E McSpadden, VP	_____
<i>(Printed name, title, and license number if required)</i>	<i>(Printed name and title)</i>	<i>(Printed name and title)</i>
March 17, 2026	2-10-2026	_____
Date	Date	Date



## Jefferson City Fire Department AGENDA ITEM REPORT

**TO:** City Council  
**FROM:** Lee Turner, Fire Chief  
**DATE:** April 17, 2026  
**SUBJECT:** Use of JCFD Fire Station 2 Contingency Fund for IT/Low Voltage Needs

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### BACKGROUND:

- The JCFD Fire Station 2 Contingency Fund is \$75,000 which is set aside to cover expenses that appear during the duration of the project. The contingency amount is covered in the original bid proposal and does not require a “Change Order” to use.
- There is no fiscal impact on the use of the contingency funds in the cost of the original total, due to their costs already calculated into the original approved bid contract.

### FISCAL IMPACT:

- The only fiscal cost associated with this use is that the fund will be deducted \$21,917.00, leaving \$53,083.00 in the fund.

### REQUEST/RECOMMENDATION:

It is my recommendation that the City of Jefferson City request the contractor, McSpadden, Inc release \$21,917.00 from the JCFD Station 2 Construction Project Contingency Fund for installation of the JCFD Station 2 low voltage/IT systems as detailed in the attached quote from the City’s IT Company, SecurFire.

### ATTACHMENTS:

SecurFire Quote/Proposal #135 – Jefferson City Fire Station 2 - Low Voltage  
Letter to McSpadden, Inc. requesting release of Contingency Funding for Low Voltage/IT



**Secufire, LLC**  
9111 Cross Park Dr Suite D200 Knoxville TN  
37923  
**P: 8657701484**  
**License #: TNLV# 2501, TN Extinguisher#**  
**547, TN Sprinkler# 611, KYLV# FAR2008, KY**  
**Sprinkler# SC00070, ALLV# 0953**  
**Proposal Date: 03-31-2026**

**Prepared By**  
**Noah Keebler**  
[noahk@secufire.com](mailto:noahk@secufire.com)

**Prepared For**  
**Jefferson City Fire Station 2**  
**Odyssey Rd Jefferson City TN 37760**  
**Allen Gillespie**  
[agillespie@jeffersoncitytn.gov](mailto:agillespie@jeffersoncitytn.gov)  
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## Summary

Quote for installation of access control, camera system and data drops for newly constructed fire station.

## Scope Of Work

### Scope of Work – Camera & Access Control Installation

**Project:** Jefferson City Fire Station 2

**Location:** Jefferson City, TN

### Overview

SecuFire will provide installation services for camera and access control systems at Jefferson City Fire Station 2. This scope includes furnishing select access control components, installation of structured cabling, and full installation of the camera system. Work will be coordinated with the Jefferson City IT Department and the project electrical contractor.

### 1. Access Control System Installation

#### Equipment Provided by SecuFire:

- Access control door controller(s)
- Key card proximity readers
- Network communication module

#### Installation Scope:

- Provide and install all low-voltage cabling required for access control, including:
  - 16/4 shielded cable
  - 18/4 cable
- Terminate and install all provided access control hardware
- Coordinate device locations and final terminations with project stakeholders

#### By Others:

- All conduit and pathway installation for access control wiring to be provided by the Electrical Contractor
- Final system programming, network configuration, and integration to be completed by the Jefferson City IT Department

### 2. Video Surveillance (Camera System)

**System Scope:**

- Installation of **17 security cameras**

**Equipment Provided by Owner (Jefferson City):**

- All cameras
- All camera cabling
- All RJ45 connectors
- All keystone jacks and associated connectivity hardware

**Services Provided by SecuFire:**

- Mounting and installation of all cameras in designated locations
- Installation and routing of owner-provided cabling
- All required wall penetrations and routing
- Installation of conduit where required for proper protection and routing of camera cabling
- Termination of cabling using owner-provided RJ45 and keystone components
- Testing and verification of camera connectivity

**3. Structured Cabling (Data & Low Voltage)**

**Data Drops:**

- Provide labor and materials for installation of **25 data drops** for:
  - TVs
  - Wall-mounted data outlets

**Wireless Access Points:**

- Provide labor and cabling for **5 ceiling-mounted wireless access points (WAPs)**

**Scope Includes:**

- Cable routing, support, and termination
- Installation of data jacks and device boxes as required
- Testing and verification of all installed cabling

**4. Coordination & Responsibilities**

- SecuFire will coordinate with:
  - Jefferson City IT Department for network integration and system programming
  - Electrical Contractor for conduit pathways and rough-in requirements
- All work will be performed in accordance with applicable low-voltage standards and best practices

**Notes**

- Final device locations to be confirmed prior to installation
- Any additional work required due to unforeseen site conditions or changes in scope will be quoted separately
- Work will be scheduled in coordination with other trades to ensure efficiency and minimize disruption

DISCOUNT APPLIED TO DATA DROP LABOR FOR THE ASSISTANCE OF JEFFERSON CITY IT DEPT. ASSISTANCE

Description	Quantity	Unit Price	Total
Keyscan CA8500 - With Can	1.0	\$4,329.00	\$4,329.00
Keyscan Prox Reader	8.0	\$181.00	\$1,448.00
Keyscan Net Card	1.0	\$480.00	\$480.00

Description	Quantity	Unit Price	Section 5, Item f.
16/4 Shielded, 18/4 Wire	1.0	\$575.00	\$575.00
Labor - Access Control Installation	1.0	\$5,360.00	\$5,360.00
Labor - Camera System Installation	1.0	\$6,700.00	\$6,700.00
Labor - WAP Cable Runs & Install (5 AP's / 25 Data Drops - as marked on plan set)	1.0	\$2,350.00	\$2,350.00
Conduit Materials	1.0	\$675.00	\$675.00
<b>Total Amount</b>			\$21,917.00

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**Exclusions**

**Exclusions**

- Access control system network configuration
- Conduit installation for access control (by Electrical Contractor)
- Cameras, camera cabling, RJ45 connectors, and keystone jacks (provided by Jefferson City)
- Network switches, servers, or IT infrastructure unless otherwise specified
- Patch cords, rack equipment, or head-end equipment unless specifically noted
- Any core drilling, firestopping, or specialty penetrations unless otherwise noted

**Approval**

I approve this proposal and agree to the terms and conditions.

\_\_\_\_\_  
**Name**

\_\_\_\_\_  
**PO (if required)**

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**



# CITY OF JEFFERSON CITY

Section 5, Item f.

MITCH CAIN, MAYOR

JAMES GALLUP, CITY MANAGER

April 17, 2026

McSpadden, Inc.  
P.O. Box 948  
Dandridge, Tennessee 37725

RE: Use of Jefferson City Fire Department Station 2 Contingency Funds  
for Fire Station IT Low Voltage Systems

Dear Sirs:

The City of Jefferson City is formally requesting to use \$21,917.00 of the Project's Contingency Fund for Low Voltage IT Systems installation at the Fire Station 2 project location. These funds will be used for the installation of access control, camera systems and data drops for the station. The City will utilize our current IT contractor, SecurFire, for the installation of these systems.

Should you have any questions, please feel free to contact our office.

Mitch Cain  
Mayor



## PLANNING DEPARTMENT AGENDA ITEM REPORT

**TO:** Mayor and City Council  
**FROM:** Jeff Houston, City Planning, Regional Planning Commission  
**DATE:** April 16, 2026  
**SUBJECT:** Proposed Stormwater Ordinance

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### BACKGROUND:

- At the March 23, 2026, meeting of the Jefferson City Regional Planning Commission, an amended Stormwater Management Ordinance was reviewed. The Jefferson City Regional Planning Commission recommended approval unanimously to be moved forward for City Council consideration.
- The Stormwater Management Ordinance is a slightly amended copy of the 2023 MTAS model stormwater ordinance. The ordinance update was also a required action directed by TDEC during a recent Compliance Evaluation Inspection.
- The proposed ordinance is very similar to the current ordinance but required shifting multiple sections numerically. The significant changes and additions have been highlighted.

### FISCAL IMPACT:

There is no financial impact to the City.

### REQUEST/RECOMMENDATION:

It is requested that the proposed ordinance be adopted for a change to the City's Stormwater Management.

### ATTACHMENTS:

Email from TDEC  
Stormwater Management Master List of Amendments  
Changes to Chapter 4 – Stormwater Management  
Proposed Stormwater Ordinance

**Jeff Houston**

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**From:** Valerie McFall <Valerie.McFall@tn.gov>  
**Sent:** Tuesday, February 10, 2026 2:09 PM  
**To:** Jeff Houston  
**Subject:** RE: Legal Authority Document  
**Attachments:** DRAFT Jefferson City Stormwater Ordinance 2026 (002).pdf  
  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**\*\*\*\*\*CAUTION\*\*\*\*\***  
**THIS EMAIL WAS GENERATED FROM OUTSIDE OF THE CITY OF JEFFERSON CITY. DO NOT CLICK LINKS OR OPEN ATTACHMENTS UNLESS YOU RECOGNIZE THE SENDER AND KNOW THE CONTENT IS SAFE!**

I reviewed the draft ordinance and compared it to our checklist. I found everything we need on the ordinance review checklist. I appreciate you allowing me to view it before final copy.

I did highlight sections that were numbered differently from the sections listed on the front page, such as: 14-504 instead of 14-405. I believe I highlighted all the numbers that need to be corrected, but you may want to double check. I know it was simply overlooked, but you will want to make sure all sections are identified properly.

As soon as the ordinance has been through the proper readings and signed, please email a copy of the signed ordinance to: [DWR.MS4@tn.gov](mailto:DWR.MS4@tn.gov). You may also copy me.  
Thank you so much for updating Jefferson City’s ordinance so quickly.



Valerie McFall | Environmental Consultant  
Division of Water Resources  
Knoxville Environmental Field Office  
3711 Middlebrook Pike  
Suite 101  
Knoxville, TN 37921  
p. 865-606-3696  
[Valerie.McFall@tn.gov](mailto:Valerie.McFall@tn.gov)  
[www.tn.gov/environment](http://www.tn.gov/environment)

Please tell us how we’re doing! Please take 5-10 minutes to complete [TDEC’s Customer Service Survey](#).

---

**From:** Jeff Houston <jhouston@jeffersoncitytn.gov>  
**Sent:** Thursday, February 5, 2026 2:20 PM  
**To:** Valerie McFall <Valerie.McFall@tn.gov>; Luther I. Hamby <Luther.I.Hamby@tn.gov>  
**Subject:** [EXTERNAL] RE: Legal Authority Document

CHAPTER 4

STORMWATER MANAGEMENT  
Master List of Amendments

**The reason for the adoption of this new Stormwater Ordinance is based on a required action directed by TDEC. The current Stormwater Ordinance was based on the 2014 Construction General Permit for Stormwater discharges and adopted in 2016 and is out of date with the recently Passed 2022 CGP. The new ordinance is an amended copy of the 2023 MTAS model Stormwater Ordinance. The proposed ordinance has been reviewed by TDEC and it meets all TDEC Ordinance Checklist requirements.**

Table of Contents Section

- 1. 14-403 – Omit 14-403 **Waivers**. Add Section 14-403 **Construction Stormwater Management**.
- 2. 14-404 – Omit 14-404 **Stormwater system design: construction and permanent stormwater management**. Add Section 14-404 **Permanent stormwater management: design and construction inspection**.
- 3. 14-405 – Omit 14-405 **Permanent storm water management: operation, maintenance, and inspection**. Add Section 14-405 **Permanent Stormwater Control Measure (SCM) maintenance and inspection**.
- 4. 14-406 – Omit 14-406 **Existing and ongoing developments**. Add Section 14-406 **Permanent Stormwater Control Measure: new development, existing locations and ongoing developments**.

Ordinance Body

- 1. Section 14-401 – Sub-section d. – **Administering Entity**. Omit - **The city's director of public works and utilities**. Replace with - **The City Manager or his designee**
- 2. Section 14-402 Definitions - **Added Definitions**

**Analytical monitoring**-Test Procedures for the Analysis of Pollutants - Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304 (h) of the Clean Water Act (the "Act"), as amended, under which such procedures may be required. Pollutant parameters shall be determined by using sufficiently sensitive methods in Title 40 C.F.R. § 136, as amended, and promulgated pursuant to Section 304 (h) of the Act. The chosen methods must be sufficiently sensitive as required in state rule 0400-40-03-.05(8).

**Aquatic Resource Alteration Permit (ARAP)** physical alterations to properties of the waters of the state require an ARAP or a §401 Water Quality Certification (§401 certification). ARAP means a permit issued pursuant to T.C.A. § 69-3-108 of the Act, which authorizes the alteration of properties of waters of the state that result from activities other than discharges of wastewater through a pipe, ditch, or other conveyance.

**Clearing** refers to removal of vegetation and disturbance of soil prior to grading or excavation in anticipation of construction activities. Clearing may also refer to wide area land disturbance in anticipation of non-construction activities. Clearing, grading, and excavation do not refer to

clearing of vegetation along existing or new roadways, highways, dams, or power lines for sight distance or other maintenance and/or safety concerns, or cold planing, milling, and/or removal of concrete and/or bituminous asphalt roadway pavement surfaces. The clearing of land for agricultural purposes is exempt from federal stormwater NPDES permitting in accordance with Section 401(1)(1) of the 1987 Water Quality Act and state stormwater NPDES permitting in accordance with the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.).

**Commencement of construction:** the initial disturbance of soils associated with clearing, grading, excavating or other construction activities.

**Control measure** refers to any Best Management Practice (BMP) or other method used to prevent or reduce the discharge of pollutants to waters of the state.

**CWA** means the Clean Water Act of 1977 or the Federal Water Pollution Control Act (33 U.S.C. 1251, et seq.)

**Design storm** is a storm event as defined by Precipitation-Frequency Atlas of the United States. Atlas 14. Volume 2. Version 3.0. U.S. Department of Commerce. National Oceanic and Atmospheric Administration (NOAA), National Weather Service, Hydrometeorological Design Studies Center, Silver Springs, Maryland or its digital product equivalent. The estimated design rainfall amounts, for any return period interval (i.e., 1,-yr, 2-yr, 5-yr, 25-yr, etc.,) in terms of either depths or intensities for any duration, can be found by accessing the data available at [https://hdsc.nws.noaa.gov/hdsc/pfds/pfds\\_map\\_cont.html](https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html) . The Design Storm Events for Jefferson City are as follows: An adequate drainage system is one that is designed to meet a 2,5, and 10-year storm event. For an outfall in a drainage area of a total of 5 or more acres, a temporary (or permanent) sediment basin that provides storage for a calculated volume of runoff from a 5-year, 24-hour storm and runoff from each acre drained, or equivalent control measures, shall be provided until final stabilization of the site. A drainage area of 5 or more acres includes both disturbed and undisturbed portions of the site or areas adjacent to the site, all draining through the common outfall. Where an equivalent control measure is substituted for a sediment retention basin, the equivalency must be justified. Runoff from any undisturbed acreage should be diverted around the disturbed area and the sediment basin and, if so, can be omitted from the volume calculation. Sediment storage expected from the disturbed areas must be included and a marker installed signifying a cleanout need.

An **ecoregion** is a relatively homogeneous area defined by similarity of climate, landform, soil, potential natural vegetation, hydrology, or other ecologically relevant variables. Ecoregions can be determined for specific stream segments by using Tennessee's Online Water Quality Assessment Data viewer <http://tdeconline.tn.gov/dwr>.

**Exceptional Tennessee Waters** are surface waters designated by the Tennessee Department of Environment and Conservation as having the characteristics set forth at Tennessee Rules, Chapter 0400-40-03-.06(4). Characteristics include waters within parks or refuges; scenic rivers;

waters with threatened or endangered species; waters that provide specialized recreational opportunities; waters within areas designated as lands unsuitable for mining; waters with naturally reproducing trout; waters with exceptional biological diversity and other waters with outstanding ecological or recreational value.

**Level 1** - Fundamentals of Erosion Prevention and Sediment Control training and certification program administered by University of Tennessee Water Resources Research Center (<https://tnepsc.org/index.asp>).

**Level 2** - Design Principles for Erosion Prevention and Sediment Control for Construction Sites training and certification program administered by University of Tennessee Water Resources Research Center (<https://tnepsc.org/index.asp>).

**Linear Project** is a land disturbing activity as conducted by an underground/overhead utility or highway department, including, but not limited to, any cable line or wire for the transmission of electrical energy; any conveyance pipeline for transportation of gaseous or liquid substance; any cable line or wire for communications; or any other energy resource transmission ROW or utility infrastructure, e.g., roads and highways. Activities include the construction and installation of these utilities within a corridor. Linear project activities also include the construction of access roads, staging areas and borrow/spoil sites associated with the linear project. Land disturbance specific to the development of residential and commercial subdivisions or high-rise structures is not considered a linear project.

**Monitoring** refers to tracking or measuring activities, progress, results, etc., and can refer to non-analytical monitoring for pollutants by means other than 40 C.F.R. § 136 (and other than state- or federally established protocols in the case of biological monitoring and assessments), such as visually or by qualitative tools that provide comparative values or rough estimates.

**Municipality** means any incorporated city or town, county, metropolitan or consolidated government, or special district of this state empowered to provide storm water facilities.

**Operator** means any person who owns, leases, operates, controls, or supervises a source. Including, but not limited to, an owner or operator of any “facility or activity” subject to regulation under the NPDES program.

**Permanent Stabilization** means that all soil disturbing activities at the site have been completed and one of the three following criteria is met:

- A perennial, preferably native, vegetative cover with a uniform (i.e., evenly distributed, without large bare areas) density of at least 70 percent has been established on all unpaved areas and areas not covered by permanent structures, and all slopes and channels have been permanently stabilized against erosion.

- Equivalent permanent stabilization measures such as the use of riprap; permanent geotextiles; hardened surface materials including concrete, asphalt, gabion baskets or Reno mattresses have been employed.
- For construction projects on land used for agricultural or silvicultural purposes, permanent stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural or silvicultural use.

**Point source** (or Outfall) means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include introduction of pollutants from non-point source agricultural and silvicultural activities, including stormwater runoff from orchards, cultivated crops, pastures, range lands, forest lands or return flows from irrigated agriculture or agricultural stormwater runoff. In short, outfall is a point where runoff leaves the site as a concentrated flow in a discrete conveyance

**Pollutant** means sewage, industrial wastes, or other wastes.

**Priority construction** means those construction activities discharging directly into, or immediately upstream of, waters the state recognized as unavailable condition for siltation or Exceptional Tennessee Waters.

A **rainfall event** is defined as any occurrence of rain preceded by 10 hours without precipitation that results in an accumulation of 0.01 inches or more. Instances of rainfall occurring within 10 hours of each other will be considered a single rainfall event.

**Registered Engineer and Registered Landscape Architect** An engineer or landscape architect certified and registered by the State Board of Architectural and Engineer Examiners pursuant to Section 62-202, Tennessee Code Annotated, to practice in Tennessee.

**Runoff coefficient** means the fraction of total rainfall that will appear at the conveyance as runoff. Runoff coefficient is also defined as the ratio of the amount of water that is not absorbed by the surface to the total amount of water that falls during a rainstorm.

**Sediment basin** A temporary basin consisting of an embankment constructed across a wet weather conveyance, an excavation that creates a basin or by a combination of both. A sediment basin typically consists of a forebay cell, , impoundment, permanent pool, primary spillway, secondary or emergency spillway and surface dewatering device. The size and shape of the basin depends on the location, size of drainage area, incoming runoff volume and peak flow, soil type and particle size, land cover, and receiving stream classification (i.e., waters with unavailable parameters, Exceptional TN Waters, or waters with available parameters).

**Significant Contributor** is defined as a source of pollutants where the volume, concentration, or mass of a pollutant in a stormwater discharge can cause or threaten to cause pollution, contamination, or nuisance that adversely impact human health or the environment and cause or contribute to a violation of any applicable water quality standards for receiving water.

**Soil or Topsoil** means the unconsolidated mineral and organic material on the immediate surface of the earth that serves as a natural medium for the growth of plants.

**Steep Slope or Steep Grade** means a natural or created slope of 35% grade or greater.  
**Stream** as defined by TCA 69-3-103(38) “stream” means a surface water that is not a wet weather conveyance.

**Stormwater associated with industrial activity** is defined in 40 C.F.R. 122.26(b)(14) and incorporated here by reference. Most relevant to the City is 40 C.F.R. 122.26(b)(14)(x), which relates to construction activity including clearing, grading, filling and excavation activities, including borrow pits containing erodible material. Disturbance of soil for the purpose of crop production is exempt from NPDES permit requirements, but stormwater discharges from agriculture-related activities that involve construction of structures (e.g., barn construction, road construction, pond construction) are considered associated with industrial (construction) activity. Maintenance to the original line and grade, hydraulic capacity; or to the original purpose of the facility (e.g., re-clearing, minor excavation performed around an existing structure necessary for maintenance or repair and repaving of an existing road) is not considered a construction activity.

Construction **Stormwater discharge-related activities** mean activities that cause, contribute to or result in point source stormwater pollutant discharges. These activities may include excavation, site development, grading and other surface disturbance activities; and activities to control stormwater including the siting, construction and operation of best management practices (BMPs).

**Stormwater Pollution Prevention Plan (SWPPP)** is a written site-specific plan required by the Tennessee Construction General Permit (CGP) that includes a narrative pollution prevention plan and graphical erosion and sediment control plan. In its basic form, the plan contains a site map, a description of construction activities that could introduce pollutants to stormwater runoff, a description of measures or practices to control these pollutants, and erosion and sediment control plans and specifications. The SWPPP should be prepared in accordance with the Tennessee Erosion and Sediment Control Handbook (latest edition).

**Take of an endangered species** means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or attempt to engage in any such conduct.

**Tennessee Erosion and Sediment Control (TDESC) Handbook** is a guidance manual issued by the Division of Water Resources for the purpose of developing Stormwater Pollution Prevention Plans and Erosion and Sediment Control Plans required by the Construction General Permit CGP.

**Temporary stabilization** is achieved when vegetation or non-erodible surface has been established on the area of disturbance and construction activity has temporarily ceased. Under certain conditions, temporary stabilization is required when construction activities temporarily cease.

**Treatment chemicals** are polymers, flocculants or other chemicals used to reduce turbidity in stormwater discharges by chemically bonding to suspended silts and other soil materials and causing them to bind together and settle out. Common examples of anionic treatment chemicals are **polyacrylamide-chitosan (PAM-CS)**.

**Turbidity** is the cloudiness or haziness of a fluid caused by individual particles (suspended solids) that are generally invisible to the naked eye, similar to smoke in air.

**Waters with unavailable parameters** means any segment of surface waters that has been identified by the TDEC as failing to support one or more classified uses. Unavailable parameters exist where water quality is at, or fails to meet, the levels specified in water quality criteria in Rule 0400-40-03-.03, even if caused by natural conditions. In the case of a criterion that is a single response variable or is derived from measurement of multiple response variables, the unavailable parameters shall be the agents causing water quality to be at or failing to meet the levels specified in criteria. Resources to be used in making this determination include biennial compilations of impaired waters, databases of assessment information, updated GIS coverages (<https://tdeconline.tn.gov/dwr/>), and the results of recent field surveys. GIS coverages of the streams and lakes not meeting water quality standards, plus the biennial list of waters with unavailable parameters, can be found at <https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/water-quality-reports---publications.html>.

**Water quality riparian buffer** means a permanent strip of natural perennial vegetation adjacent to a stream, river, wetland, pond, or lake that contains dense vegetation made up of grass, shrubs, and/or trees. The purpose of a water quality riparian buffer is to maintain existing water quality by minimizing the risk of any potential sediments, nutrients, or other pollutants reaching adjacent surface waters and to further prevent negative water quality impacts by providing canopy over adjacent waters.

A **one-week period** is a synonym for a calendar-week; typically, a period from Sunday through Saturday

**Water quality treatment volume (WQTV)** is a portion of the runoff generated from impervious surfaces at a new development or redevelopment project by the 1-year 24-hour design storm. The WQTV is further determined by the type of treatment provided.

**Wet weather conveyances** are man-made or natural watercourses, including natural watercourses that have been modified by channelization, that meet the following:

- The conveyance carries flow only in direct response to precipitation runoff in its immediate locality.

- The conveyance’s channels are at all times above the groundwater table.
- The flow carried by the conveyance is not suitable for drinking water supplies.

Hydrological and biological analyses indicate that, due to naturally occurring ephemeral or low flow under normal weather conditions, there is not sufficient water to support fish or multiple populations of obligate lotic aquatic organisms whose life cycle includes an aquatic phase of at least two months. (Tennessee Rules, Chapter 0400-40-3-.04(3)).

Removed Definitions will be redlined on Current ordinance

3. Section 14-403 Waivers – Remove entirety of Section replace with **14-403. Construction Stormwater Management**

**From this point the ordinance effectively shifts an entire section backward from the current ordinance. Much of the information is the same but there are so many changes, it would be less confusing to just abandon the current ordinance in its entirety and adopt the proposed Stormwater Ordinance. To not cause confusion with the master list, I will highlight the primary changes from the Proposed Stormwater Ordinance Section 14-403 through 14-410.**

**Proposed Ordinance Section 14-403 Construction Stormwater Management would strongly mirror the information in the current section 14-404 Stormwater system design: construction and permanent stormwater management. The primary changes are:**

**14-403 Sub-Section (6) adopts a new Land Disturbance Permit Fee Schedule. It is based off the size of land that is going to be disturbed which provides a fair cost to the developer to offset the cost for City employees required inspections (Stormwater and Utility).**

- (1) Land disturbance/Grading/Stormwater Construction Permit- Persons seeking the issuance of any land disturbance permit must provide proof of coverage under the Tennessee Construction General Permit (CGP) (if applicable) when requested; and a copy of the Stormwater Pollution Prevention Plan (SWPPP) to the city when requested.
  - a. Copies of additional applicable local, state or federal permits (i.e.: ARAP, approved hydrologic determination, etc.) must also be provided to the city.
  - b. The City has the authority to withhold local permits prior to receiving copies of the aforementioned permits.
  - c. In circumstances where no such permits have been required, the city may still require a SWPPP as part of the land disturbance permit application.

Land Disturbance Permit Fee Schedule:

<b>Disturbed Acreage</b>	<b>From</b>	<b>To</b>
0.01 – 0.99 Acres	\$50.00	\$50.00
1.00 – 5.00 Acres	\$50.00	\$250.00
5.00 – 10.00 Acres	\$250.00	\$500.00
10.00 – 20.00 Acres	\$500.00	\$1,000.00
20.00 – 30.00 Acres	\$1,000.00	\$1,500.00
30.00 – 100.00 Acres	\$1,500.00	\$5,000.00
>100.00 Acres	\$5200.00	

**Proposed Ordinance Section 14-404 Permanent Stormwater Management: design and construction inspection. This section will include some of the Current 14-405 Permanent stormwater management: operation, maintenance, and inspection. It focuses on plan review and design requirement guidance. The primary Changes are:**

**14-404 Sub-Section (5 through 8) includes the water quality treatment volume design table. This identifies the treatment volume required based on the treatment provided. It also includes a Treatment Train Calculation to ensure 80% of total suspended solids are removed when utilizing Manufactured Treatment Devices.**

(5) The quantity of the WQTV depends on the type of treatment provided, as established in the following table:

**Water Quality Treatment Volume and the Corresponding SCM Treatment Type  
For the 1-Year, 24-Hour Design Storm**

<b>SCM Treatment Type</b>	<b>WQTV</b>	<b>Notes</b>
Infiltration, evaporation, transpiration, and/or reuse	Runoff generated from the first 1 inch of the design storm	Examples include, but are not limited to, bioretention, stormwater wetlands, and infiltration systems.
Biologically active filtration, with an underdrain	Runoff generated from the first 1.25 inches of the design storm	To achieve biologically active filtration, SCMs must provide minimum of 12 inches of internal water storage.
Sand or gravel filtration, settling ponds, extended detention ponds, and wet ponds	Runoff generated from the first 2.5 inches of the design storm or the first 75% of the design storm,	Examples include, but are not limited to, sand filters, permeable pavers, and underground gravel detention systems. Ponds must provide forebays comprising a minimum of 10% of the total design volume. Existing regional detention ponds are not subject to the forebay requirement.
Hydrodynamic separation, baffle box settling, other flow-through manufactured treatment devices (MTDs), and treatment trains using MTDs	Maximum runoff generated from the entire design storm	Flow-through MTDs must provide an overall treatment efficiency of at least 80% TSS reduction. Refer to subparagraph (2)(d) of this rule

(6). Limitations to the application of certain stormwater control measures include, but are not limited to:

- a. Where a potential for introducing pollutants into groundwater exists, unless pretreatment is provided;
- b. Where pre-existing soil contamination is present in areas subject to contact with infiltrated runoff;
- c. Presence of sinkholes or other karst features.

(7). Pre-development infiltrative capacity of soils at the site must be taken into account in selection of runoff reduction management measures.

(8). **Treatment Train Calculations**

a. **Treatment Trains using MTDs.**

Treatment trains using MTDs must provide an overall treatment efficiency of at least 80% TSS reduction utilizing the following formula:

$$R = A + B - (A \times B) / 100$$

Where:

R = total TSS percent removal from applications of both SCMs,  
A = the TSS percent removal rate applicable to the first SCM, and  
B = the TSS percent removal rate applicable to the second SCM.  
TSS removal rates for MID must be evaluated using industry-wide standards.  
TSS removal rates for other SCMs must be from published reference literature.

b. Treatment trains not using MTDs.

Treatment trains using infiltration, evaporation, transpiration, reuse, or biologically active filtration followed by sand or gravel filtration, settling ponds, extended detention ponds or wet ponds may subtract the treated WQTV of the upstream SCMs from the WQTV of the downstream SCMs.

**Proposed Ordinance Section 14-405 Permanent SCM maintenance and inspection. Will strongly mirror Current Ordinance 14-405. Covering the As Built requirements. No significant changes.**

**Proposed Ordinance Section 14-406 does include the requirement for a Stormwater Maintenance Agreement which the City has enacted, but the remainder of sections 14-406 through 14-410 will strongly mirror the current Stormwater Ordinance with many of the differences being wording clarification making the Ordinance Easier to navigate and providing more clarity on the wording of the requirements.**

(1) On-site stormwater management facilities inspection and maintenance agreement<sup>1</sup>

- a. Where the stormwater facility is located on property that is subject to a development agreement, and the development agreement provides for a permanent stormwater maintenance agreement that runs with the land, the owners of property must execute an inspection and maintenance agreement that shall operate as a deed restriction binding on the current property owners and all subsequent property owners and their lessees and assigns, including but not limited to, homeowner associations or other groups or entities.
- b. The maintenance agreement shall:
  - i. Assign responsibility for the maintenance and repair of the stormwater facility to the owners of the property upon which the facility is located and be recorded as such on the plat for the property by appropriate notation.
  - ii. Provide for a periodic inspection by the property owners in accordance with the requirements of subsection (5) below for the purpose of documenting maintenance and repair needs and to ensure compliance with the requirements of this ordinance. The property owners will arrange for this inspection to be conducted by individual(s)

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approved by the City who will submit a signed written report of the inspection to the City. It shall also grant permission to the City to enter the property at reasonable times and to inspect the stormwater facility to ensure that it is being properly maintained.

- c. Provide that the minimum maintenance and repair needs include but are not limited to: the removal of silt, litter and other debris, the cutting of grass, cutting and vegetation removal, and the replacement of landscape vegetation, in detention and retention basins, and inlets and drainage pipes and any other stormwater facilities. It shall also provide that the property owners shall be responsible for additional maintenance and repair needed to meet the intended design specification of the stormwater facility.
- d. Provide that maintenance needs must be addressed in a timely manner, on a schedule to be determined by the city.
- e. Provide that if the property is not maintained or repaired within the prescribed schedule, the City shall perform the maintenance and repair at its expense and bill the same to the property owner. The maintenance agreement shall also provide that the City's cost of performing the maintenance shall be a lien against the property.

## CHAPTER 4

### STORMWATER MANAGEMENT

#### SECTION

14-401. General provisions.

14-402. Definitions.

14-403. ~~Waivers.~~ Construction Stormwater Management

14-404. ~~Stormwater system design; construction and permanent stormwater management.~~ Permanent stormwater management: design and construction inspection.

14-405. ~~Permanent storm water management; operation, maintenance, and inspection.~~ Permanent Stormwater Control Measure (SCM) maintenance and inspection.

14-406. ~~Existing locations and ongoing developments.~~ Permanent Stormwater Control Measure's: new development, existing locations and ongoing developments.

14-407. Illicit discharges.

14-408. Enforcement.

14-409. Penalties.

14-410. Appeals.

**14-401. General provisions.** (1) Purpose. It is the purpose of this chapter to:

(a) Protect, maintain, and enhance the environment of the city and the public health, safety and the general welfare of the citizens of the city, by controlling discharges of pollutants to the city's stormwater system and to maintain and improve the quality of the receiving waters into which the stormwater outfalls flow, including, without limitation, lakes, rivers, streams, ponds, wetlands, and groundwater of the city;

(b) Enable the city to comply with the National Pollution Discharge Elimination System permit (NPDES) and applicable regulations, 40 CFR 122.26 for stormwater discharges;

(c) Allow the city to exercise the powers granted in Tennessee Code Annotated, § 68-221-1105, which provides that, among other powers cities have with respect to stormwater facilities, is the power by ordinance or resolution to:

(i) Exercise general regulation over the planning, location, construction, and operation and maintenance of stormwater facilities in the city, whether or not owned and operated by the city;

(ii) Adopt any rules and regulations deemed necessary to accomplish the purposes of this statute, including the adoption of a system of fees for services and permits;

(iii) Establish standards to regulate the quantity of stormwater discharged and to regulate stormwater contaminants as may be necessary to protect water quality;

(iv) Review and approve plans and plats for stormwater management in proposed subdivisions or commercial developments;

(v) Issue permits for stormwater discharges, or for the construction, alteration, extension, or repair of stormwater facilities;

(vi) Suspend or revoke permits when it is determined that the permittee has violated any applicable ordinance, resolution, or condition of the permit;

(vii) Regulate and prohibit discharges into stormwater facilities of sanitary, industrial, or commercial sewage or waters that have otherwise been contaminated; and

(viii) Expend funds to remediate or mitigate the detrimental effects of contaminated land or other sources of stormwater contamination, whether public or private.

(2) Administering entity. The ~~city's director of public works and utilities~~ City Manager or his designee shall administer the provisions of this chapter.

(3) Stormwater management ordinance. The intended purpose of this ordinance is to safeguard property and public welfare by regulating stormwater drainage and requiring temporary and permanent provisions for its control. It should be used as a planning and engineering implement to facilitate the necessary control of stormwater. (as added by Ord. #2016-06, June 2016)

**14-402. Definitions.** For the purpose of this chapter, the following definitions shall apply: Words used in the singular shall include the plural, and the plural shall include the singular; words used in the present tense shall include the future tense. The word "shall" is mandatory and not discretionary. The word "may" is permissive. Words not defined in this section shall be construed to have the meaning given by common and ordinary use as defined in the latest edition of Webster's Dictionary.

(1) "Administrative or civil penalties." Under the authority provided in Tennessee Code Annotated, § 68-221-1106, the city declares that any person violating the provisions of this chapter may be assessed a civil penalty by the city of not less than fifty dollars (\$50.00) and not more than five thousand dollars (\$5,000.00) per day for each day of violation. Each day of violation shall constitute a separate violation.<sup>1</sup>

(2) "As built plans" means drawings depicting conditions as they were actually constructed.

*• Please See Master List of Amendments for added definitions.*

<sup>1</sup>Appendix A (available in the recorder's office) contains a defense of the proposition that a municipality can legally impose an administrative penalty of more than fifty dollars (\$50.00).

(3) "Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the state. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

(4) "Borrow pit" is an excavation from which erodible material (typically soil) is removed to be fill for another site. There is no processing or separation of erodible material conducted at the site. Given the nature of activity and pollutants present at such excavation, a borrow pit is considered a construction activity for the purpose of this permit.

(5) "Buffer zone" means a setback from the top of water body's bank of undisturbed vegetation, including trees, shrubs and herbaceous vegetation; enhanced or restored vegetation; or the re-establishment of native vegetation bordering streams, ponds, wetlands, springs, reservoirs or lakes, which exists or is established to protect those water bodies. 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. Buffer width depends on the size of a drainage area. Streams or other waters with drainage areas less than one (1) square mile will require buffer widths of thirty feet (30') minimum. Streams or other waters with drainage areas greater than one (1) square mile will require buffer widths of sixty feet (60') minimum. The sixty feet (60') criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than thirty feet (30') at any measured location. The MS4 must develop and apply criteria for determining the circumstances under which these averages will be available. A determination that standards cannot be met may not be based solely on the difficulty or cost associated with implementation. Every attempt should be made for development and redevelopment activities not to take place within the buffer zone. If water quality buffer widths as defined above cannot be fully accomplished on-site, the MS4 must develop and apply criteria for determining the circumstances under which alternative buffer widths will be available. A determination that water quality buffer widths cannot be met on site may not be based solely on the difficulty or cost of implementing measures, but must include multiple criteria, such as: type of project, existing land use and physical conditions that preclude use of these practices.

(6) "Buffer zone requirements" (a) "Construction" applies to all streams adjacent to construction sites, with an exception for streams designated as impaired or exceptional Tennessee waters, as designated by the Tennessee Department of Environment and Conservation. A thirty foot (30') natural riparian buffer zone adjacent to all streams at the

construction site shall be preserved, to the maximum extent practicable, during construction activities at the site. The water quality buffer zone is required to protect waters of the state located within or immediately adjacent to the boundaries of the project, as identified using methodology from Standard Operating Procedures for Hydrologic Determinations (see rules to implement a certification program for qualified hydrologic professionals, TN Rules chapter 0400-40-17). Buffer zones are not primary sediment control measures and should not be relied on as such. Rehabilitation and enhancement of a natural buffer zone is allowed, if necessary, for improvement of its effectiveness of protection of the waters of the state. The buffer zone requirement only applies to new construction sites. The riparian buffer zone should be preserved between the top of stream bank and the disturbed construction area. The thirty feet (30') criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than fifteen feet (15') at any measured location.

(b) Buffer zone requirements for discharges into impaired or exceptional waters: a sixty foot (60') natural riparian buffer zone adjacent to the receiving stream designated as impaired or exceptional waters shall be preserved, to the maximum extent practicable, during construction activities at the site. The water quality buffer zone is required to protect waters of the state (e.g., perennial and intermittent streams, rivers, lakes, wetlands) located within or immediately adjacent to the boundaries of the project, as identified on a 7.5-minute USGS quadrangle map, or as determined by the director. Buffer zones are not sediment control measures and should not be relied upon as primary sediment control measures. Rehabilitation and enhancement of a natural buffer zone is allowed, if necessary, for improvement of its effectiveness of protection of the waters of the state. The buffer zone requirement only applies to new construction sites. The riparian buffer zone should be established between the top of stream bank and the disturbed construction area. The sixty feet (60') criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than twenty-five feet (25') at any measured location.

(c) "Permanent" new development and significant redevelopment sites are required to preserve water quality buffers along waters within the MS4. Buffers shall be clearly marked on site development plans, grading permit applications, and/or concept plans. Buffer width depends on the size of a drainage area. Streams or other waters with drainage areas less than one (1) square mile will require buffer widths of thirty feet (30') minimum. Streams or other waters with drainage areas greater than one (1) square mile will require buffer widths of sixty feet (60') minimum. The sixty feet (60') criterion for the width of

the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than thirty feet (30') at any measured location.

(7) "Channel" means a natural or artificial watercourse with a definite bed and banks that conducts flowing water continuously or periodically.

(8) "Common plan of development or sale" is broadly defined as any announcement or documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot. A common plan of development or sale identifies a situation in which multiple areas of disturbance are occurring on contiguous areas. This applies because the activities may take place at different times, on different schedules, by different operators.

(9) "Design storm event" means a hypothetical storm event, of a given frequency interval and duration, used in the analysis and design of a stormwater facility. The estimated design rainfall amounts, for any return period interval (i.e., 2-yr, 5-yr, 25-yr, etc.) in terms of either twenty-four (24) hour depths or intensities for any duration, can be found by accessing the following Other data sources may be acceptable with prior written approval by TDEC Water Pollution Control.

~~(10) "Contaminant" means any physical, chemical, biological, or radiological substance or matter in water.~~

(11) "Discharge" means dispose, deposit, spill, pour, inject, seep, dump, leak or place by any means, or that which is disposed, deposited, spilled, poured, injected, seeped, dumped, leaked, or placed by any means including any direct or indirect entry of any solid or liquid matter into the municipal separate storm sewer system.

~~(12) "Easement" means an acquired privilege or right of use or enjoyment that a person, party, firm, corporation, city or other legal entity has in the land of another.~~

~~(13) "Erosion" means the removal of soil particles by the action of water, wind, ice or other geological agents, whether naturally occurring or acting in conjunction with or promoted by human activities or effects.~~

~~(14) "Erosion Prevention and Sediment Control Plan (EPSCP)" means a written plan (including drawings or other graphic representations) that is designed to minimize the erosion and sediment runoff at a site during construction activities.~~

(15) "Hotspot" means an area where land use or activities generate highly contaminated runoff, with concentrations of pollutants in excess of those typically found in stormwater. The following land uses and activities are deemed stormwater hot spots, but that term is not limited to only these land uses:

- (a) Vehicle salvage yards and recycling facilities;
- (b) Vehicle service and maintenance facilities;
- (c) Vehicle and equipment cleaning facilities;
- (d) Fleet storage areas (bus, truck, etc.);
- (e) Industrial sites (included on Standard Industrial Classification code list);
- (f) Marinas (service and maintenance);
- (g) Public works storage areas;
- (h) Facilities that generate or store hazardous waste materials;
- (i) Commercial container nursery;
- (j) Restaurants and food service facilities;
- (k) Other land uses and activities as designated by an appropriate review; authority.

(16) "Illicit connections" means illegal and/or unauthorized connections to the municipal separate stormwater system whether or not such connections result in discharges into that system.

(17) "Illicit discharge" means any discharge to the municipal separate storm sewer system that is not composed entirely of stormwater and not specifically exempted under §14-507(2).

(18) "Improved sinkhole" is a natural surface depression that has been altered in order to direct fluids into the hole opening. Improved sinkhole is a type of injection well regulated under TDEC's Underground Injection Control (UIC) program. Underground injection constitutes an intentional disposal of waste waters in natural depressions, open fractures, and crevices (such as those commonly associated with weathering of limestone).

~~(19) "Inspector" An inspector is a person that has successfully completed (has a valid certification from) the "Fundamentals of Erosion Prevention and Sediment Control Level I" course or equivalent course. An inspector performs and documents the required inspections, paying particular attention to time-sensitive permit requirements such as stabilization and maintenance activities.~~

~~An inspector may also have the following responsibilities:~~

- ~~(a) Oversee the requirements of other construction-related permits, such as Aquatic Resources Alteration Permit (ARAP) or Corps of Engineers permit for construction activities in or around waters of the state;~~
- ~~(b) Update field SWPPPs;~~
- ~~(c) Conduct pre-construction inspection to verify that undisturbed areas have been properly marked and initial measures have been installed; and~~
- ~~(d) Inform the permit holder of activities that may be necessary to gain or remain in compliance with the Construction General Permit (CGP) and other environmental permits.~~

~~(20) "Land disturbing activity" means any activity on property that results in a change in the existing soil cover (both vegetative and non-vegetative) and/or the existing soil topography. Land-disturbing activities include, but are not limited to, development, re-development, demolition, construction, reconstruction, clearing, grading, filling, and excavation.~~

~~(21) "Maintenance" means any activity that is necessary to keep a stormwater facility in good working order so as to function as designed. Maintenance shall include complete reconstruction of a stormwater facility if reconstruction is needed in order to restore the facility to its original operational design parameters. Maintenance shall also include the correction of any problem on the site property that may directly impair the functions of the stormwater facility.~~

~~(22) "Maintenance agreement" means a document recorded in the land records that acts as a property deed restriction, and which provides for long-term maintenance of stormwater management practices.~~

~~(23) "Municipal Separate Storm Sewer System (MS4)" means the conveyances owned or operated by the city for the collection and transportation of stormwater, including the roads and streets and their drainage systems, catch basins, curbs, gutters, ditches, man-made channels, and storm drains, and where the context indicates, it means the municipality that owns the separate storm sewer system.~~

~~(24) "National Pollutant Discharge Elimination System permit" or a "NPDES permit" means a permit issued pursuant to 33 U.S.C. 1342.~~

~~(25) "Off-site facility" means a structural BMP located outside the subject property boundary described in the permit application for land development activity.~~

~~(26) "On-site facility" means a structural BMP located within the subject property boundary described in the permit application for land development activity.~~

~~(27) "Peak flow" means the maximum instantaneous rate of flow of water at a particular point resulting from a storm event.~~

~~(28) "Person" means any and all persons, natural or artificial, including any individual, firm or association and any municipal or private corporation organized or existing under the laws of this or any other state or country.~~

~~(29) "Runoff" means that portion of the precipitation on a drainage area that is discharged from the area into the municipal separate storm sewer system.~~

(30) "Sediment" means solid material, both inorganic and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface either above or below sea level.

(31) "Sedimentation" means soil particles suspended in stormwater that can settle in stream beds.

(32) "Soils report" means a study of soils on a subject property with the primary purpose of characterizing and describing the soils. The soils report shall be prepared by a qualified soils engineer, who shall be directly involved in the soil characterization either by performing the investigation or by directly supervising employees conducting the investigation.

~~(33) "Stabilization" means providing adequate measures, vegetative and/or structural, that will prevent erosion from occurring.~~

~~(34) "Stormwater" means stormwater runoff, snow melt runoff, surface runoff, street wash waters related to street cleaning or maintenance, infiltration and drainage.~~

~~(35) "Stormwater entity" means the entity designated by the city to administer the stormwater management ordinance, and other stormwater rules and regulations adopted by the city.~~

~~(36) "Stormwater management" means the programs to maintain quality and quantity of stormwater runoff to pre-development levels.~~

~~(37) "Stormwater management facilities" means the drainage structures, conduits, ponds, ditches, combined sewers, sewers, and all device appurtenances by means of which stormwater is collected, transported, pumped, treated or disposed of.~~

~~(38) "Stormwater management plan" means the set of drawings and other documents that comprise all the information and specifications for the programs, drainage systems, structures, BMPs, concepts and techniques intended to maintain or restore quality and quantity of stormwater runoff to pre-development levels.~~

(39) "Stormwater Pollution Prevention Plan (SWPPP)" means a written plan that includes site map(s), an identification of construction/contractor activities that could cause pollutants in the stormwater, and a description of measures or practices to control these pollutants. It must be prepared and approved before construction begins. In order to effectively reduce erosion and sedimentation impacts, Best Management Practices (BMPs) must be designed, installed, and maintained during land disturbing activities. The SWPPP should be prepared in accordance with the current Tennessee Erosion and Sediment Control Handbook. The handbook is intended for use during the design and construction of projects that require erosion and sediment controls to protect waters of the state. It also aids in the development of SWPPPs and other reports, plans, or specifications required when participating in Tennessee's water quality regulations. All SWPPPs shall be prepared and updated in accordance with section 3 of the General NPDES Permit for Discharges of Stormwater Associated with Construction Activities.

~~(40) "Stormwater runoff" means flow on the surface of the ground, resulting from precipitation.~~

~~(41) "Structural BMPs" means facilities that are constructed to provide control of stormwater runoff.~~

~~(42) "Surface water" includes waters upon the surface of the earth in bounds created naturally or artificially including, but not limited to, streams, other water courses, lakes and reservoirs.~~

(43) "Waste site" means an area where waste material from a construction site is deposited. When the material is erodible, such as soil, the site must be treated as a construction site.

~~(44) "Water quality buffer" see "buffer."~~

~~(45) "Watercourse" means a permanent or intermittent stream or other body of water, either natural or man-made, which gathers or carries surface water.~~

~~(46) "Watershed" means all the land area that contributes runoff to a particular point along a waterway.~~

(47) "Waters" or "waters of the state" means any and all water, public or private, on or beneath the surface of the ground, which are contained within, flow through, or border upon Tennessee or any portion thereof except those bodies of water confined to and retained within the limits of private property in single ownership which do not combine or effect a junction with natural surface or underground waters.

~~(48) "Wetland(s)" means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted to life in saturated soil conditions. Wetlands include, but are not limited to, swamps, marshes, bogs, and similar areas.~~

(49) "Wet weather conveyances" are man-made or natural watercourses, including natural watercourses that have been modified by channelization, that flow only in direct response to precipitation runoff in their immediate locality and whose channels are above the groundwater table and are not suitable for drinking water supplies; and in which hydrological and biological analyses indicate that, under normal weather conditions, due to naturally occurring ephemeral or low flow, there is not sufficient water to support fish or multiple populations of obligate lotic aquatic organisms whose life cycle includes an aquatic phase of at least two (2) months. (Rules and Regulations of the State of Tennessee, chapter 1200-4-3-.04(3)).

~~14-403. **Waivers.** (1) **General.** No waivers will be granted any construction or site work project. All construction and site work shall provide for stormwater management as required by this ordinance. However, alternatives to the 2010 NPDES general permit for discharges from small municipal separate storm sewer systems primary requirement for on-site permanent stormwater management may be considered, if~~

~~(a) Management measures cannot be designed, built and maintained to infiltrate, evapotranspire, harvest and/or use, at a minimum, the first inch of every rainfall event preceded by seventy-two (72) hours of no measurable precipitation. This first inch of rainfall must~~

~~be one hundred percent (100%) managed with no discharge to surface waters.~~

~~(b) It can be demonstrated that the proposed development is not likely to impair attainment of the objectives of this chapter. Alternative minimum requirements for on-site management of stormwater discharges have been established in a stormwater management plan that has been approved by the city.~~

~~(2) Downstream damage, etc. prohibited. In order to receive consideration, the applicant must demonstrate to the satisfaction of the director of public works and utilities that the proposed alternative will not lead to any of the following conditions downstream:~~

~~(a) Deterioration of existing culverts, bridges, dams, and other structures;~~

~~(b) Degradation of biological functions or habitat;~~

~~(c) Accelerated streambank or streambed erosion or siltation;~~

~~(d) Increased threat of flood damage to public health, life or property.~~

~~(3) Grading permit not to be issued where alternatives requested. No grading permit shall be issued where an alternative has been requested until the alternative is approved. If no alternative is approved, the plans must be resubmitted with a stormwater management plan that meets the primary requirement for on-site stormwater management. (as added by Ord. #2016-06, June 2016)~~

**14-404. Stormwater system design: construction and permanent stormwater management.** (1) MS4 stormwater design or BMP manuals.

(a) Adoption. The city adopts as its MS4 stormwater design and Best Management Practices (BMP) manuals for stormwater management, construction and permanent, the following publications, which are incorporated by reference in this ordinance as if fully set out herein:

(i) TDEC Erosion Prevention and Sediment Control Handbook; most current edition.

(ii) The Nashville-Davidson County Metro Stormwater Management Manual (BEST MANAGEMENT PRACTICES (BMP) MANUAL - volume 4) (Note: this selection is provided as a suggestion only. TDEC plans on issuing a similar manual in cooperation with the University of Tennessee's Water Resources Center in 2013.); most current edition.

(iii) A collection of MS4 approved BMPs developed or collected by the MS4 that comply with the goals of the MS4 permit and/or the CGP.

(b) The city's BMP manual(s) include a list of acceptable BMPs including the specific design performance criteria and operation and

maintenance requirements for each stormwater practice. These include city approved BMPs for permanent stormwater management including green infrastructure BMPs.

(c) The city manual(s) may be updated and expanded from time to time, at the discretion of the governing body of the city, upon the recommendation of the director of public works and utilities based on improvements in engineering, science, monitoring and local maintenance experience, or changes in federal or state law or regulation. Stormwater facilities that are designed, constructed and maintained in accordance with these BMP criteria will be presumed to meet the minimum water quality performance standards.

(2) Land development. This section shall be applicable to all land development, including, but not limited to, site plan applications, subdivision applications, land disturbance applications and grading applications. These standards apply to any new development or redevelopment site that meets one (1) or more of the following criteria:

- (a) One (1) acre or more;
  - (i) New development that involves land development activities of one (1) acre or more;
  - (ii) Redevelopment that involves other land development activity of one (1) acre or more;
- (b) Projects or developments of less than one (1) acre of total land disturbance may also be required to obtain authorization under this ordinance if:
  - (i) The director of public works and utilities has determined that the stormwater discharge from a site is causing, contributing to, or is likely to contribute to a violation of a state water quality standard;
  - (ii) The Director of public works and utilities has determined that the stormwater discharge is, or is likely to be a significant contributor of pollutants to waters of the state;
  - (iii) Changes in state or federal rules require sites of less than one (1) acre that are not part of a larger common plan of development or sale to obtain a stormwater permit;
  - (iv) Any new development or redevelopment, regardless of size, that is defined by the director of public works and utilities to be a hotspot land use; or
  - (v) Minimum applicability criteria set forth in item (a) above if such activities are part of a larger common plan of development, even multiple, that is part of a separate and distinct land development activity that may take place at different times on different schedules.

Note: Any discharge of stormwater or other fluid to an improved sinkhole or other injection well, as defined, must be authorized by permit or rule as a

Class V underground injection well under the provisions of Tennessee Department of Environment and Conservation (DEC) Rules, chapter 1200-4-6.

(3) Submittal of a copy of the NOC, SWPPP and NOT to the local MS4. Permittees who discharge stormwater through an NPDES-permitted municipal separate storm sewer system (MS4) who are not exempted in section 1.4.5 (Permit Coverage through Qualifying Local Program) of the Construction General Permit (CGP) must provide proof of coverage under the Construction General Permit (CGP); submit a copy of the Stormwater Pollution Prevention Plan (SWPPP); and at project completion, a copy of the signed Notice of Termination (NOT) to the director of public works and utilities. Permitting status of all permittees covered (or previously covered) under this general permit as well as the most current list of all MS4 permits is available at the DEC's data viewer web site.

Copies of additional applicable local, state or federal permits (i.e.: ARAP, etc.) must also be provided upon request.

If requested, these permits must be provided before the issuance of any land disturbance permit or the equivalent.

(4) Stormwater Pollution Prevention Plan (SWPPP) for construction stormwater management: The applicant must prepare a stormwater pollution prevention plan for all construction activities that complies with subsection (5) below. The purpose of this plan is to identify construction/contractor activities that could cause pollutants in the stormwater, and to describe measures or practices to control these pollutants during project construction.

(5) Stormwater pollution prevention plan requirements. The erosion prevention and sediment control plan component of the SWPPP shall accurately describe the potential for soil erosion and sedimentation problems resulting from land disturbing activity and shall explain and illustrate the measures that are to be taken to control these problems. The length and complexity of the plan is to be commensurate with the size of the project, severity of the site condition, and potential for off-site damage. If necessary, the plan shall be phased so that changes to the site during construction that alter drainage patterns or characteristics will be addressed by an appropriate phase of the plan. The plan shall be sealed by a registered professional engineer or landscape architect licensed in the State of Tennessee. The plan shall also conform to the requirements found in the MS4 BMP manual, and shall include at least the following:

- (a) Project description - Briefly describe the intended project and proposed land disturbing activity including number of units and structures to be constructed and infrastructure required.
- (b) A topographic map with contour intervals of five feet (5') or less showing present conditions and proposed contours resulting from land disturbing activity.
- (c) All existing drainage ways, including intermittent and wet-weather. Include any designated floodways or flood plains.

(d) A general description of existing land cover. Individual trees and shrubs do not need to be identified.

(e) Stands of existing trees as they are to be preserved upon project completion, specifying their general location on the property. Differentiation shall be made between existing trees to be preserved, trees to be removed and proposed planted trees. Tree protection measures must be identified, and the diameter of the area involved must also be identified on the plan and shown to scale. Information shall be supplied concerning the proposed destruction of exceptional and historic trees in setbacks and buffer strips, where they exist. Complete landscape plans may be submitted separately. The plan must include the sequence of implementation for tree protection measures.

(f) Approximate limits of proposed clearing, grading and filling.

(g) Approximate flows of existing storm water leaving any portion of the site.

(h) A general description of existing soil types and characteristics and any anticipated soil erosion and sedimentation problems resulting from existing characteristics.

(i) Location, size and layout of proposed stormwater and sedimentation control improvements.

(j) Existing and proposed drainage network.

(k) Proposed drain tile or waterway sizes.

(l) Approximate flows leaving site after construction and incorporating water run-off mitigation measures. The evaluation must include projected effects on property adjoining the site and on existing drainage facilities and systems. The plan must address the adequacy of outfalls from the development: when water is concentrated, what is the capacity of waterways, if any, accepting stormwater off-site; and what measures, including infiltration, sheeting into buffers, etc., are going to be used to prevent the scouring of waterways and drainage areas off-site, etc.

(m) The projected sequence of work represented by the grading, drainage and sedimentation and erosion control plans as related to other major items of construction, beginning with the initiation of excavation and including the construction of any sediment basins or retention/detention facilities or any other structural BMPs.

(n) Specific remediation measures to prevent erosion and sedimentation run-off. Plans shall include detailed drawings of all control measures used; stabilization measures including vegetation and non-vegetation measures, both temporary and permanent, will be detailed. Detailed construction notes and a maintenance schedule shall be included for all control measures in the plan.

(o) Specific details for: the construction of stabilized construction entrance/exits, concrete washouts, and sediment basins for

controlling erosion; road access points; eliminating or keeping soil, sediment, and debris on streets and public ways at a level acceptable to the city. Soil, sediment, and debris brought onto streets and public ways must be removed by the end of the work day to the satisfaction of the city. Failure to remove the sediment, soil or debris shall be deemed a violation of this ordinance.

(p) Proposed structures: location and identification of any proposed additional buildings, structures or development on the site.

(q) A description of on-site measures to be taken to recharge surface water into the ground water system through runoff reduction practices.

(r) Specific details for construction waste management. Construction site operators shall control waste such as discarded building materials, concrete truck washout, petroleum products and petroleum related products, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality. When the material is erodible, such as soil, the site must be treated as a construction site.

(6) General design performance criteria for permanent stormwater management: the following performance criteria shall be addressed for permanent stormwater management at all development sites:

(a) Site design standards for all new and redevelopment require, in combination or alone, management measures that are designed, built and maintained to infiltrate, evapotranspire, harvest and/or use, at a minimum, the first inch of every rainfall event preceded by seventy-two (72) hours of no measurable precipitation. This first inch of rainfall must be one hundred percent (100%) managed with no discharge to surface waters.

(b) Limitations to the application of runoff reduction requirements include, but are not limited to:

(i) Where a potential for introducing pollutants into the groundwater exists, unless pretreatment is provided;

(ii) Where pre-existing soil contamination is present in areas subject to contact with infiltrated runoff;

(iii) Presence of sinkholes or other karst features.

(c) Pre-development infiltrative capacity of soils at the site must be taken into account in selection of runoff reduction management measures.

(d) Incentive standards for re-developed sites: a ten percent (10%) reduction in the volume of rainfall to be managed for any of the following types of development. Such credits are additive such that a maximum reduction of fifty percent (50%) of the standard in the paragraph above is possible for a project that meets all five (5) criteria:

(i) Redevelopment;

(ii) Brownfield redevelopment;

- (iii) High density (>7 units per acre);
- (iv) Vertical density, (Floor to Area Ratio (FAR) of 2 or >18 units per acre); and
- (v) Mixed use and transit oriented development (within one half (1/2) mile of transit).

(e) For projects that cannot meet one hundred percent (100%) of the runoff reduction requirement unless subject to the incentive standards, the remainder of the stipulated amount of rainfall must be treated prior to discharge with a technology documented to remove eighty percent (80%) Total Suspended Solids (TSS) unless an alternative provided under this ordinance is approved. The treatment technology must be designed, installed and maintained to continue to meet this performance standard.

(f) For projects that cannot meet one hundred percent (100%) of the runoff reduction requirements, the director of public works and utilities may allow runoff reduction measures to be implemented at another location within the same USGS twelve (12) digit Hydrologic Unit Code (HUC) as the original project. Off-site mitigation must be a minimum of one and one half (1.5) times the amount of water not managed on site. The off-site mitigation location (or alternative location outside the twelve (12) digit HUC) and runoff reduction measures must be approved by the director of public works and utilities. The director of public works and utilities shall identify priority areas within the watershed in which mitigation projects can be completed. The director of public works and utilities must create an inventory of appropriate mitigation projects, and develop appropriate institutional standards and management systems to value, evaluate and track transactions. Mitigation can be used for retrofit or redevelopment projects, but should be avoided in areas of new development.

(g) To protect stream channels from degradation, specific channel protection criteria shall be provided as prescribed in the MS4 BMP manual.

(h) Stormwater discharges to critical areas with sensitive resources (i.e., cold water fisheries, shellfish beds, swimming beaches, recharge areas, water supply reservoirs) may be subject to additional performance criteria, or may need to utilize or restrict certain stormwater management practices.

(i) Stormwater discharges from hot spots may require the application of specific structural BMPs and pollution prevention practices. In addition, stormwater from a hot spot land use may not be infiltrated.

(j) Prior to or during the site design process, applicants for land disturbance permits shall consult with the director of public works and

utilities to determine if they are subject to additional storm water design requirements.

(k) The calculations for determining peak flows as found in the MS4 BMP manual shall be used for sizing all stormwater facilities.

(7) Minimum volume control requirements. (Note: the volume control requirements are by the MS4 and not the TDEC MS4 permit) in accordance with § 14-401(1)(c)(iii) the MS4 may establish standards to regulate the quantity of stormwater discharged, therefore:

(a) Stormwater designs shall meet the multi-stage storm frequency storage requirements as identified in the MS4 BMP manual.

(b) If hydrologic or topographic conditions warrant greater control than that provided by the minimum control requirements, the director of public works and utilities may impose any and all additional requirements deemed necessary to control the volume, timing, and rate of runoff.

(8) Permanent stormwater management plan requirements. The stormwater management plan shall include sufficient information to allow the director of public works and utilities to evaluate the environmental characteristics of the project site, the potential impacts of all proposed development of the site, both present and future, on the water resources, and the effectiveness and acceptability of the measures proposed for managing stormwater generated at the project site. To accomplish this goal the stormwater management plan shall include the following:

(a) Topographic base map: topographic base map of the site which extends a minimum of one hundred feet (100') beyond the limits of the proposed development and indicates:

(i) Existing surface water drainage including streams, ponds, culverts, ditches, sink holes, wetlands; and the type, size, elevation, etc., of nearest upstream and downstream drainage structures;

(ii) Current land use including all existing structures, locations of utilities, roads, and easements;

(iii) All other existing significant natural and artificial features;

(iv) Proposed land use with tabulation of the percentage of surface area to be adapted to various uses; drainage patterns; locations of utilities, roads and easements; the limits of clearing and grading.

(b) Proposed structural and non-structural BMPs;

(c) A written description of the site plan and justification of proposed changes in natural conditions may also be required;

(d) Calculations: hydrologic and hydraulic design calculations for the pre-development and post-development conditions for the design storms specified in the MS4 BMP manual. These calculations must show

that the proposed stormwater management measures are capable of controlling runoff from the site in compliance with this chapter and the guidelines of the MS4 BMP manual. Such calculations shall include:

- (i) A description of the design storm frequency, duration, and intensity where applicable;
- (ii) Time of concentration;
- (iii) Soil curve numbers or runoff coefficients including assumed soil moisture conditions;
- (iv) Peak runoff rates and total runoff volumes for each watershed area;
- (v) Infiltration rates, where applicable;
- (vi) Culvert, stormwater sewer, ditch and/or other stormwater conveyance capacities;
- (vii) Flow velocities;
- (viii) Data on the increase in rate and volume of runoff for the design storms referenced in the MS4 BMP manual; and
- (ix) Documentation of sources for all computation methods and field test results.

(e) Soils information: If a stormwater management control measure depends on the hydrologic properties of soils (e.g., infiltration basins), then a soils report shall be submitted. The soils report shall be based on on-site boring logs or soil pit profiles and soil survey reports. The number and location of required soil borings or soil pits shall be determined based on what is needed to determine the suitability and distribution of soil types present at the location of the control measure.

(9) Maintenance and repair plan. The design and planning of all permanent stormwater management facilities shall include detailed maintenance and repair procedures to ensure their continued performance. These plans will identify the parts or components of a stormwater management facility that need to be maintained and the equipment and skills or training necessary. Provisions for the periodic review and evaluation of the effectiveness of the maintenance program and the need for revisions or additional maintenance procedures shall be included in the plan.

(10) Buffers and buffer zones. Buffer and buffer zones shall be those buffers and buffer zones as those terms are defined in § 14-402(5) and (6), above, and shall meet the requirements contained in those provisions.

(a) Construction. (i) Construction requires buffer zone widths of a minimum of thirty feet (30'). The thirty foot (30') criterion for the width of the buffer zone can be established on an average width basis. As long as the minimum width of the buffer zone is fifteen feet (15'). The buffer zone shall meet all the other applicable requirements of § 14-402(5) and (6).

(ii) Construction on impaired or exceptional waters. The width of the buffer zone shall be a minimum of sixty feet (60'). The

sixty feet (60') criterion for the width of the buffer zone can be established on an average basis at a project as long as the minimum width of the buffer is more than thirty feet (30') at any measured location. The buffer zone shall meet all the other applicable requirements of 14-402(5) and (6).

(b) Permanent. (i) More than one (1) square mile drainage area will require buffer zones of a minimum of sixty feet (60'). The sixty foot (60') criterion for the width of the buffer zone can be established on an average width basis, as long as the minimum width of the buffer zone is more than thirty feet (30') at any measured location.

(ii) Less than one (1) square mile drainage area. Less than one (1) square mile drainage area will require buffer zones of a minimum of thirty feet (30'). The thirty foot (30') criterion for the width of the buffer zone can be established on an average width basis, as long as the minimum width of the buffer zone is more than thirty feet (30') at any measured location. The buffer zone shall meet all the other applicable requirements of § 14-402(5) and (6). (as added by Ord. #2016-06, June 2016)

**14-405. Permanent stormwater management: operation, maintenance, and inspection.** (1) As built plans. All applicants are required to submit actual as built plans for any structures located on-site after final construction is completed. The plan must show the final design specifications for all stormwater management facilities and must be sealed by a registered professional engineer licensed to practice in Tennessee. A final inspection by the city is required before any performance security or performance bond will be released. The city shall have the discretion to adopt provisions for a partial pro-rata release of the performance security or performance bond on the completion of various stages of development. In addition, occupation permits shall not be granted until corrections to all BMPs have been made and accepted by the city.

(2) Landscaping and stabilization requirements. (a) Any area of land from which the natural vegetative cover has been either partially or wholly cleared by development activities shall stabilize. Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased. Temporary or permanent soil stabilization at the construction site (or a phase of the project) must be completed not later than fifteen (15) days after the construction activity in that portion of the site has temporarily or permanently ceased. In the following situations, temporary stabilization measures are not required:

(i) Where the initiation of stabilization measures is precluded by snow cover or frozen ground conditions or adverse

soggy ground conditions, stabilization measures shall be initiated as soon as practicable; or

(ii) Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within fifteen (15) days.

(b) Permanent stabilization with perennial vegetation (using native herbaceous and woody plants where practicable) or other permanently stable, non-eroding surface shall replace any temporary measures as soon as practicable. Unpacked gravel containing fines (silt and clay sized particles) or crusher runs will not be considered a non-eroding surface.

(c) The following criteria shall apply to revegetation efforts:

(i) Reseeding must be done with an annual or perennial cover crop accompanied by placement of straw mulch or its equivalent of sufficient coverage to control erosion until such time as the cover crop is established over ninety percent (90%) of the seeded area.

(ii) Replanting with native woody and herbaceous vegetation must be accompanied by placement of straw mulch or its equivalent of sufficient coverage to control erosion until the plantings are established and are capable of controlling erosion.

(iii) Any area of revegetation must exhibit survival of a minimum of seventy-five percent (75%) of the cover crop throughout the year immediately following revegetation. Revegetation must be repeated in successive years until the minimum seventy-five percent (75%) survival for one (1) year is achieved.

(iv) In addition to the above requirements, a landscaping plan must be submitted with the final design describing the vegetative stabilization and management techniques to be used at a site after construction is completed. This plan will explain not only how the site will be stabilized after construction, but who will be responsible for the maintenance of vegetation at the site and what practices will be employed to ensure that adequate vegetative cover is preserved.

(3) Inspection of storm water management facilities. Periodic inspections of facilities shall be performed, documented, and reported in accordance with this chapter, as detailed in §14-406.

(4) Records of installation and maintenance activities. Parties responsible for the operation and maintenance of a stormwater management facility shall make records of the installation of the stormwater facility, and of all maintenance and repairs to the facility, and shall retain the records for at least three (3) years. These records shall be made available to the city during inspection of the facility and at other reasonable times upon request.

(5) Failure to meet or maintain design or maintenance standards. If a responsible party fails or refuses to meet the design or maintenance standards required for stormwater facilities under this chapter, the city, after reasonable notice, may correct a violation of the design standards or maintenance needs by performing all necessary work to place the facility in proper working condition. In the event that the stormwater management facility becomes a danger to public safety or public health, the city shall notify in writing the party responsible for maintenance of the storm water management facility. Upon receipt of that notice, the responsible person shall have thirty (30) days to effect maintenance and repair of the facility in an approved manner. In the event that corrective action is not undertaken within that time, the city may take necessary corrective action. The cost of any action by the city under this section shall be charged to the responsible party. (as added by Ord. #2016-06, June 2016)

**14-406. Existing locations and ongoing developments.** (1) On-site stormwater management facilities maintenance agreement:<sup>1</sup>

(a) Where the stormwater facility is located on property that is subject to a development agreement, and the development agreement provides for a permanent stormwater maintenance agreement that runs with the land, the owners of property must execute an inspection and maintenance agreement that shall operate as a deed restriction binding on the current property owners and all subsequent property owners and their lessees and assigns, including but not limited to, homeowner associations or other groups or entities.

(b) The maintenance agreement shall:

(i) Assign responsibility for the maintenance and repair of the stormwater facility to the owners of the property upon which the facility is located and be recorded as such on the plat for the property by appropriate notation.

(ii) Provide for a periodic inspection by the property owners in accordance with the requirements of subsection (5) below for the purpose of documenting maintenance and repair needs and to ensure compliance with the requirements of this ordinance. The property owners will arrange for this inspection to be conducted by a registered professional engineer licensed to practice in the State of Tennessee, who will submit a signed

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<sup>1</sup>Appendix B contains a sample maintenance agreement that runs with the land. Numerous other maintenance agreements are available from MTAS and Tennessee cities. Appendix C contains an outline of the law governing covenants that run with the land. These appendixes are available in the recorder's office.

written report of the inspection to the director of public works and utilities. It shall also grant permission to the city to enter the property at reasonable times and to inspect the stormwater facility to ensure that it is being properly maintained.

(iii) Provide that the minimum maintenance and repair needs include, but are not limited to: the removal of silt, litter and other debris, the cutting of grass, cutting and vegetation removal, and the replacement of landscape vegetation, in detention and retention basins, and inlets and drainage pipes and any other stormwater facilities. It shall also provide that the property owners shall be responsible for additional maintenance and repair needs consistent with the needs and standards outlined in the MS4 BMP manual.

(iv) Provide that maintenance needs must be addressed in a timely manner, on a schedule to be determined by the director of public works and utilities.

(v) Provide that if the property is not maintained or repaired within the prescribed schedule, the director of public works and utilities shall perform the maintenance and repair at its expense, and bill the same to the property owner. The maintenance agreement shall also provide that the director of public works and utilities cost of performing the maintenance shall be a lien against the property.

(2) Existing problem locations - no maintenance agreement. (a) The director of public works and utilities shall in writing notify the owners of existing locations and developments of specific drainage, erosion or sediment problems affecting or caused by such locations and developments, and the specific actions required to correct those problems. The notice shall also specify a reasonable time for compliance. Discharges from existing BMPs that have not been maintained and/or inspected in accordance with this ordinance shall be regarded as illicit.

(b) Inspection of existing facilities. The city may, to the extent authorized by state and federal law, enter and inspect private property for the purpose of determining if there are illicit non-stormwater discharges, and to establish inspection programs to verify that all stormwater management facilities are functioning within design limits. These inspection programs may be established on any reasonable basis, including but not limited to: routine inspections; random inspections; inspections based upon complaints or other notice of possible violations; inspection of drainage basins or areas identified as higher than typical sources of sediment or other contaminants or pollutants; inspections of businesses or industries of a type associated with higher than usual discharges of contaminants or pollutants or with discharges of a type which are more likely than the typical discharge to cause violations of the

city's NPDES stormwater permit; and joint inspections with other agencies inspecting under environmental or safety laws. Inspections may include, but are not limited to: reviewing maintenance and repair records; sampling discharges, surface water, groundwater, and material or water in drainage control facilities; and evaluating the condition of drainage control facilities and other BMPs.

(3) Owner/operator inspections - generally. The owners and/or the operators of stormwater management practices shall:

(a) Perform routine inspections to ensure that the BMPs are properly functioning. These inspections shall be conducted on an annual basis, at a minimum. These inspections shall be conducted by a person familiar with control measures implemented at a site. Owners or operators shall maintain documentation of these inspections. The director of public works and utilities (stormwater entity) may require submittal of this documentation.

(b) Perform comprehensive inspection of all stormwater management facilities and practices. These inspections shall be conducted once every five years, at a minimum. Such inspections must be conducted by either a professional engineer or landscape architect, licensed in the State of Tennessee. Complete inspection reports for these five (5) year inspections shall include:

- (i) Facility type,
- (ii) Inspection date,
- (iii) Latitude and longitude and nearest street address,
- (iv) BMP owner information (e.g. name, address, phone number, fax, and email),
- (v) A description of BMP condition including: vegetation and soils; inlet and outlet channels and structures; embankments, slopes, and safety benches; spillways, weirs, and other control structures; and any sediment and debris accumulation,
- (vi) Photographic documentation of BMPs, and
- (vii) Specific maintenance items or violations that need to be corrected by the BMP owner along with deadlines and reinspection dates.

(c) Owners or operators shall maintain documentation of these inspections. The director of public works and utilities may require submittal of this documentation.

(4) Requirements for all existing locations and ongoing developments. The following requirements shall apply to all locations and development at which land disturbing activities have occurred previous to the enactment of this ordinance:

(a) Denuded areas must be vegetated or covered under the standards and guidelines specified in § 14-405(2)(c)(i), (ii), (iii) and on a schedule acceptable to the director of public works and utilities.

(b) Cuts and slopes must be properly covered with appropriate vegetation and/or retaining walls constructed.

(c) Drainage ways shall be properly covered in vegetation or secured with rip-rap, channel lining, etc., to prevent erosion.

(d) Trash, junk, rubbish, etc., shall be cleared from drainage ways.

(e) Stormwater runoff shall, at the discretion of the director of public works and utilities be controlled to the maximum extent practicable to prevent its pollution. Such control measures may include, but are not limited to, the following:

- (i) Ponds
  - (A) Detention pond
  - (B) Extended detention pond
  - (C) Wet pond
  - (D) Alternative storage measures
- (ii) Constructed wetlands
- (iii) Infiltration systems
  - (A) Infiltration/percolation trench
  - (B) Infiltration basin
  - (C) Drainage (recharge) well
  - (D) Porous pavement
- (iv) Filtering systems
  - (A) Catch basin inserts/media filter
  - (B) Sand filter
  - (C) Filter/absorption bed
  - (D) Filter and buffer strips
- (v) Open channel
  - (A) Swale

(5) Corrections of problems subject to appeal. Corrective measures imposed by the director of public works and utilities under this section are subject to appeal under § 14-410 of this chapter. (as added by Ord. #2016-06, June 2016)

**14-407. Illicit discharges.** (1) Scope. This section shall apply to all water generated on developed or undeveloped land entering the city's separate storm sewer system.

(2) Prohibition of illicit discharges. No person shall introduce or cause to be introduced into the municipal separate storm sewer system any discharge that is not composed entirely of stormwater or any discharge that flows from stormwater facility that is not inspected in accordance with § 14-406 shall be an illicit discharge. Non-stormwater discharges shall include, but shall not be limited to, sanitary wastewater, car wash wastewater, radiator flushing disposal, spills from roadway accidents, carpet cleaning wastewater, effluent from septic tanks, improper oil disposal, laundry wastewater/gray water,

improper disposal of auto and household toxics. The commencement, conduct or continuance of any non-stormwater discharge to the municipal separate storm sewer system is prohibited except as described as follows:

- (a) Uncontaminated discharges from the following sources:
  - (i) Water line flushing or other potable water sources;
  - (ii) Landscape irrigation or lawn watering with potable water;
  - (iii) Diverted stream flows;
  - (iv) Rising ground water;
  - (v) Groundwater infiltration to storm drains;
  - (vi) Pumped groundwater;
  - (vii) Foundation or footing drains;
  - (viii) Crawl space pumps;
  - (ix) Air conditioning condensation;
  - (x) Springs;
  - (xi) Non-commercial washing of vehicles;
  - (xii) Natural riparian habitat or wetland flows;
  - (xiii) Swimming pools (if dechlorinated - typically less than one (1) PPM chlorine);
  - (xiv) Firefighting activities;
  - (xv) Any other uncontaminated water source.
- (b) Discharges specified in writing by the city as being necessary to protect public health and safety.
- (c) Dye testing is an allowable discharge if the city has so specified in writing.
- (d) Discharges authorized by the Construction General Permit (CGP), which comply with section 3.5.9 of the same:
  - (i) Dewatering of work areas of collected stormwater and ground water (filtering or chemical treatment may be necessary prior to discharge);
  - (ii) Waters used to wash vehicles (of dust and soil, not process materials such as oils, asphalt or concrete) where detergents are not used and detention and/or filtering is provided before the water leaves site;
  - (iii) Water used to control dust in accordance with CGP section 3.5.5;
  - (iv) Potable water sources including waterline flushings from which chlorine has been removed to the maximum extent practicable;
  - (v) Routine external building washdown that does not use detergents or other chemicals;
  - (vi) Uncontaminated groundwater or spring water; and

(vii) Foundation or footing drains where flows are not contaminated with pollutants (process materials such as solvents, heavy metals, etc.).

(3) Prohibition of illicit connections. The construction, use, maintenance or continued existence of illicit connections to the municipal separate storm sewer system is prohibited. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.

(4) Reduction of stormwater pollutants by the use of best management practices. Any person responsible for a property or premises, which is, or may be, the source of an illicit discharge, may be required to implement, at the person's expense, the BMPs necessary to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of stormwater associated with industrial activity, to the extent practicable, shall be deemed in compliance with the provisions of this section. Discharges from existing BMPs that have not been maintained and/or inspected in accordance with this ordinance shall be regarded as illicit.

(5) Notification of spills. Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting in, or may result in, illicit discharges or pollutants discharging into, the municipal separate storm sewer system, the person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of hazardous materials the person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services. In the event of a release of non-hazardous materials, the person shall notify the city in person or by telephone, fax, or email, no later than the next business day. Notifications in person or by telephone shall be confirmed by written notice addressed and mailed to the city within three (3) business days of the telephone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three (3) years.

(6) No illegal dumping allowed. No person shall dump or otherwise deposit outside an authorized landfill, convenience center or other authorized garbage or trash collection point, any trash or garbage of any kind or description on any private or public property, occupied or unoccupied, inside the city. (as added by Ord. #2016-06, June 2016)

**14-408. Enforcement.**<sup>1</sup> (1) Enforcement authority. The director of public works and utilities shall have the authority to issue notices of violation and citations, and to impose the civil penalties provided in this section. Measures authorized include:

(a) Verbal warnings - At a minimum, verbal warnings must specify the nature of the violation and required corrective action.

(b) Written notices - Written notices must stipulate the nature of the violation and the required corrective action, with deadlines for taking such action.

(c) Citations with administrative penalties - The MS4 has the authority to assess monetary penalties, which may include civil and administrative penalties.

(d) Stop work orders - Stop work orders that require construction activities to be halted, except for those activities directed at cleaning up, abating discharge, and installing appropriate control measures.

(e) Withholding of plan approvals or other authorizations - Where a facility is in noncompliance, the MS4's own approval process affecting the facility's ability to discharge to the MS4 can be used to abate the violation.

(f) Additional measures - The MS4 may also use other escalated measures provided under local legal authorities. The MS4 may perform work necessary to improve erosion control measures and collect the funds from the responsible party in an appropriate manner, such as collecting against the project's bond or directly billing the responsible party to pay for work and materials.

(2) Notification of violation: (a) Verbal warning. Verbal warning may be given at the discretion of the inspector when it appears the condition can be corrected by the violator within a reasonable time, which time shall be approved by the inspector.

(b) Written notice. Whenever the director of public works and utilities finds that any permittee or any other person discharging stormwater has violated or is violating this ordinance or a permit or order issued hereunder, the director of public works and utilities may serve upon such person written notice of the violation. Within ten (10) days of this notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted to the director of public works and utilities.

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<sup>1</sup>See Appendix D (available in the recorder's office) for consideration of possible conflicts between building codes and stormwater regulations.

Submission of this plan in no way relieves the discharger of liability for any violations occurring before or after receipt of the notice of violation.

(c) Consent orders. The director of public works and utilities is empowered to enter into consent orders, assurances of voluntary compliance, or other similar documents establishing an agreement with the person responsible for the noncompliance. Such orders will include specific action to be taken by the person to correct the noncompliance within a time period also specified by the order. Consent orders shall have the same force and effect as administrative orders issued pursuant to paragraphs (d) and (e) below.

(d) Show cause hearing. The director of public works and utilities may order any person who violates this chapter or permit or order issued hereunder, to show cause why a proposed enforcement action should not be taken. Notice shall be served on the person specifying the time and place for the meeting, the proposed enforcement action and the reasons for such action, and a request that the violator show cause why this proposed enforcement action should not be taken. The notice of the meeting shall be served personally or by registered or certified mail (return receipt requested) at least ten (10) days prior to the hearing.

(e) Compliance order. When the director of public works and utilities finds that any person has violated or continues to violate this chapter or a permit or order issued thereunder, he may issue an order to the violator directing that, following a specific time period, adequate structures or devices be installed and/or procedures implemented and properly operated. Orders may also contain such other requirements as might be reasonably necessary and appropriate to address the noncompliance, including the construction of appropriate structures, installation of devices, self-monitoring, and management practices.

(f) Cease and desist and stop work orders. When the director of public works and utilities finds that any person has violated or continues to violate this chapter or any permit or order issued hereunder, the director of public works and utilities may issue a stop work order or an order to cease and desist all such violations and direct those persons in noncompliance to:

(i) Comply forthwith; or

(ii) Take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation; including halting operations except for terminating the discharge and installing appropriate control measures.

(g) Suspension, revocation or modification of permit. The director of public works and utilities may suspend, revoke or modify the permit authorizing the land development project or any other project of the applicant or other responsible person within the city. A suspended, revoked or modified permit may be reinstated after the applicant or other

responsible person has taken the remedial measures set forth in the notice of violation or has otherwise cured the violations described therein, provided such permit may be reinstated upon such conditions as the director of public works and utilities may deem necessary to enable the applicant or other responsible person to take the necessary remedial measures to cure such violations.

(h) **Conflicting standards.** Whenever there is a conflict between any standard contained in this chapter and in the BMP manual adopted by the city under this ordinance, the strictest standard shall prevail. (as added by Ord. #2016-06, June 2016)

**14-409. Penalties.** (1) Violations. Any person who shall commit any act declared unlawful under this chapter, who violates any provision of this chapter, who violates the provisions of any permit issued pursuant to this chapter, or who fails or refuses to comply with any lawful communication or notice to abate or take corrective action by the director of public works and utilities, shall be guilty of a civil offense.

(2) Penalties. Under the authority provided in Tennessee Code Annotated, § 68-221-1106, the city declares that any person violating the provisions of this chapter may be assessed a civil penalty by the director of public works and utilities of not less than fifty dollars (\$50.00) and not more than five thousand dollars (\$5,000.00) per day for each day of violation.<sup>1</sup> Each day of violation shall constitute a separate violation.

(3) Measuring civil penalties. In assessing a civil penalty, the director of public works and utilities may consider:

- (a) The harm done to the public health or the environment;
- (b) Whether the civil penalty imposed will be a substantial economic deterrent to the illegal activity;
- (c) The economic benefit gained by the violator;
- (d) The amount of effort put forth by the violator to remedy this violation;
- (e) Any unusual or extraordinary enforcement costs incurred by the city;
- (f) The amount of penalty established by ordinance or resolution for specific categories of violations; and
- (g) Any equities of the situation which outweigh the benefit of imposing any penalty or damage assessment.

(4) Recovery of damages and costs. In addition to the civil penalty in subsection (2) above, the city may recover:

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<sup>1</sup>Appendix A (available in the recorder's office) contains a defense of the proposition that municipalities can legally impose an administrative fine of more than fifty dollars (\$50.00).

(a) All damages proximately caused by the violator to the city, which may include any reasonable expenses incurred in investigating violations of, and enforcing compliance with, this chapter, or any other actual damages caused by the violation.

(b) The costs of the city's maintenance of stormwater facilities when the user of such facilities fails to maintain them as required by this chapter.

(5) Referral to TDEC. Where the city has used progressive enforcement to achieve compliance with this ordinance, and in the judgment of the city has not been successful, the city may refer the violation to TDEC. For the purposes of this provision, "progressive enforcement" shall mean two (2) follow-up inspections and two (2) warning letters. In addition, enforcement referrals to TDEC must include, at a minimum, the following information:

- (a) Construction project or industrial facility location;
- (b) Name of owner or operator;
- (c) Estimated construction project or size or type of industrial activity (including SIC code, if known);
- (d) Records of communications with the owner or operator regarding the violation, including at least two follow-up inspections, two (2) warning letters or notices of violation, and any response from the owner or operator.

(6) Other remedies. The city may bring legal action to enjoin the continuing violation of this chapter, and the existence of any other remedy, at law or equity, shall be no defense to any such actions.

(7) Remedies cumulative. The remedies set forth in this section shall be cumulative, not exclusive, and it shall not be a defense to any action, civil or criminal, that one (1) or more of the remedies set forth herein has been sought or granted. (as added by Ord. #2016-06, June 2016)

**14-410. Appeals.** Pursuant to Tennessee Code Annotated, § 68-221-1106(d), any person aggrieved by the imposition of a civil penalty or damage assessment as provided by this chapter may appeal said penalty or damage assessment to the city's governing body.

(1) Appeals to be in writing. The appeal shall be in writing and filed with the municipal recorder or clerk within fifteen (15) days after the civil penalty and/or damage assessment is served in any manner authorized by law.

(2) Public hearing. Upon receipt of an appeal, the city's governing body, or other appeals board established by the city's governing body shall hold a public hearing within thirty (30) days. Ten (10) days prior notice of the time, date, and location of said hearing shall be published in a daily newspaper of general circulation. Ten (10) days' notice by registered mail shall also be provided to the aggrieved party, such notice to be sent to the address provided by the aggrieved party at the time of appeal. The decision of the governing body of the city shall be final.

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(3) Appealing decisions of the city's governing body. Any alleged violator may appeal a decision of the city's governing body pursuant to the provisions of Tennessee Code Annotated, title 27, chapter 8. (as added by Ord. #2016-06, June 2016)

**STORMWATER MANAGEMENT**

CHAPTER 4

**SECTION**

- 14-401. General provisions.
- 14-402. Definitions.
- 14-403. Construction Stormwater Management
- 14-404. Permanent stormwater management: design and construction inspection.
- 14-405. Permanent Stormwater Control Measure (SCM) maintenance and inspection.
- 14-406. Permanent Stormwater Control Measure's: new development, existing locations and ongoing developments.
- 14-407. Illicit discharges.
- 14-408. Enforcement
- 14-409. Penalties.
- 14-410. Appeals.

**14-401 General provisions**

Purpose. It is the purpose of this chapter to:

- a. Protect, maintain, and enhance the environment of the City of Jefferson City and the public health, safety and the general welfare of the citizens of the City, by controlling discharges of pollutants to the City's stormwater system and to maintain and improve the quality of the receiving waters into which the stormwater outfalls flow, including, without limitation, lakes, rivers, streams, ponds, wetlands, and groundwater of the City;
- b. Enable the City of Jefferson City to comply with the National Pollution Discharge Elimination System permit (NPDES) and applicable regulations, 40 CFR § 122 as applicable for stormwater discharges;
- c. Allow the City of Jefferson City to exercise the powers granted in Tennessee Code Annotated § 68-221-1105, which provides that, among other powers cities have with respect to stormwater facilities, is the power by ordinance or resolution to:
  - i. Exercise general regulation over the planning, location, construction, and operation and maintenance of stormwater facilities in the City, whether or not owned and operated by the City;

- ii. Adopt any rules and regulations deemed necessary to accomplish the purposes of this statute, including the adoption of a system of fees for services and permits;
  - iii. Establish standards to regulate the quantity of stormwater discharged and to regulate stormwater contaminants as may be necessary to protect water quality;
  - iv. Review and approve plans and plats for stormwater management in proposed subdivisions or commercial developments;
  - v. Issue permits for stormwater discharges, or for the construction, alteration, extension, or repair of stormwater facilities;
  - vi. Suspend or revoke permits when it is determined that the permittee has violated any applicable ordinance, resolution, or condition of the permit;
  - vii. Regulate and prohibit discharges into stormwater facilities of sanitary, industrial, or commercial sewage or waters that have otherwise been contaminated; and
  - viii. Expend funds to remediate or mitigate the detrimental effects of contaminated land or other sources of stormwater contamination, whether public or private.
- d. Administering entity. The City Manager or his designee shall administer the provisions of this chapter.
- e. Stormwater management ordinance. The intended purpose of this ordinance is to safeguard property and public welfare by regulating stormwater drainage and requiring temporary and permanent provisions for its control. It should be used as a planning and engineering tool for permit compliance and to facilitate the necessary control of stormwater.

**14-402. Definitions.** For the purpose of this chapter, the following definitions shall apply:

Words used in the singular shall include the plural, and the plural shall include the singular; words used in the present tense shall include the future tense. The word “shall” is mandatory and not discretionary. The word “may” is permissive. Words not defined in this section shall be construed to have the meaning given by common and ordinary use as defined in the latest edition of Webster’s Dictionary.

1. **Administrative or Civil Penalties** - Under the authority provided in Tennessee Code Annotated § 68-221-1106, the City of Jefferson City declares that any person violating the provisions of this chapter may be assessed a civil penalty by the City of not less than fifty dollars (\$50.00) and not more than five thousand dollars (\$5,000.00) per day for each day of violation. Each day of violation shall constitute a separate violation.

2. **Analytical monitoring**-Test Procedures for the Analysis of Pollutants - Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304 (h) of the Clean Water Act (the "Act"), as amended, under which such procedures may be required. Pollutant parameters shall be determined by using sufficiently sensitive methods in Title 40 C.F.R. § 136, as amended, and promulgated pursuant to Section 304 (h) of the Act. The chosen methods must be sufficiently sensitive as required in state rule 0400-40-03-.05(8).
3. **Aquatic Resource Alteration Permit (ARAP)** physical alterations to properties of the waters of the state require an ARAP or a §401 Water Quality Certification (§401 certification). ARAP means a permit issued pursuant to T.C.A. § 69-3-108 of the Act, which authorizes the alteration of properties of waters of the state that result from activities other than discharges of wastewater through a pipe, ditch, or other conveyance.
4. **As built plans (record drawings)** mean drawings depicting conditions as they were actually constructed.
5. **Best Management Practices ("BMPs")** means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the discharge of pollutants to waters of the state. BMPs also include treatment requirements, operating procedures; and practices to control plant site runoff, spillage, leaks, sludge or waste disposal, or drainage from raw material storage. BMPs include source control practices (non-structural BMPs) and engineered structures designed to treat runoff.
  - Structural BMPs are facilities that help prevent pollutants in stormwater runoff from leaving the site.
  - Non-structural BMPs are techniques, activities and processes that reduce pollutants at the source.
6. **BMP Manual** provides technical guidance including additional policies, criteria, standards, specifications, constants, and information for the proper implementation of the requirements of the National Pollution Discharge Elimination System permit (NPDES) and applicable regulations, 40 CFR § 122 as applicable for stormwater discharges.
7. **Borrow Pit** is an excavation from which erodible material (typically soil) is removed to be fill for another site. There is no processing or separation of erodible material conducted at the site. Given the nature of activity and pollutants present at such excavation, a borrow pit is considered a construction activity.
8. **Buffer Zone or Water Quality Riparian Buffer** is a permanent strip of natural perennial vegetation, adjacent to a stream, river, wetland, pond, or lake that contains dense vegetation made up of grass, shrubs, and/or trees. The purpose of a water quality riparian buffer is to maintain existing water quality by minimizing risk of any potential sediments, nutrients or other pollutants reaching adjacent surface waters and to further prevent negative water quality impacts by providing canopy over adjacent waters.

9. **Channel** means a natural or artificial watercourse with a definite bed and banks that conducts continuously or periodically flowing water.
10. **Clearing** refers to removal of vegetation and disturbance of soil prior to grading or excavation in anticipation of construction activities. Clearing may also refer to wide area land disturbance in anticipation of non-construction activities. Clearing, grading, and excavation do not refer to clearing of vegetation along existing or new roadways, highways, dams, or power lines for sight distance or other maintenance and/or safety concerns, or cold planing, milling, and/or removal of concrete and/or bituminous asphalt roadway pavement surfaces. The clearing of land for agricultural purposes is exempt from federal stormwater NPDES permitting in accordance with Section 401(1)(1) of the 1987 Water Quality Act and state stormwater NPDES permitting in accordance with the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.).
11. **Commencement of construction:** the initial disturbance of soils associated with clearing, grading, excavating or other construction activities.
12. **Common plan of development or sale** is broadly defined as any announcement or documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot. A common plan of development or sale identifies a situation in which multiple areas of disturbance are occurring on contiguous areas. This applies because the activities may take place at different times, on different schedules, by different operators.
13. **Control measure** refers to any Best Management Practice (BMP) or other method used to prevent or reduce the discharge of pollutants to waters of the state.
14. **CWA** means the Clean Water Act of 1977 or the Federal Water Pollution Control Act (33 U.S.C. 1251, et seq.)
15. **Design storm** is a storm event as defined by Precipitation-Frequency Atlas of the United States. Atlas 14. Volume 2. Version 3.0. U.S. Department of Commerce. National Oceanic and Atmospheric Administration (NOAA), National Weather Service, Hydrometeorological Design Studies Center, Silver Springs, Maryland or its digital product equivalent. The estimated design rainfall amounts, for any return period interval (i.e., 1,-yr, 2-yr, 5-yr, 25-yr, etc.,) in terms of either depths or intensities for any duration, can be found by accessing the data available at [https://hdsc.nws.noaa.gov/hdsc/pfds/pfds\\_map\\_cont.html](https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html) . The Design Storm Events for Jefferson City are as follows: An adequate drainage system is one that is designed to meet a 2,5, and 10-year storm event. For an outfall in a drainage area of a total of 5 or more acres, a temporary (or permanent) sediment basin that provides storage for a calculated volume of runoff from a 5-year, 24-hour storm and runoff from each acre drained, or equivalent control measures, shall be provided until final stabilization of the site. A drainage area of 5 or more acres includes both disturbed and undisturbed portions of the site or areas adjacent to the site, all draining through the common outfall. Where an equivalent control measure is substituted for a sediment retention basin, the equivalency must be justified. Runoff from any undisturbed acreage should be diverted around the disturbed area and the sediment basin and, if so, can be

omitted from the volume calculation. Sediment storage expected from the disturbed areas must be included and a marker installed signifying a cleanout need.

16. **Discharge or discharge of a pollutant** refers to the addition of pollutants to waters from a source.
17. An **ecoregion** is a relatively homogeneous area defined by similarity of climate, landform, soil, potential natural vegetation, hydrology, or other ecologically relevant variables. Ecoregions can be determined for specific stream segments by using Tennessee’s Online Water Quality Assessment Data viewer <http://tdeconline.tn.gov/dwr>.
18. **Exceptional Tennessee Waters** are surface waters designated by the Tennessee Department of Environment and Conservation as having the characteristics set forth at Tennessee Rules, Chapter 0400-40-03-.06(4). Characteristics include waters within parks or refuges; scenic rivers; waters with threatened or endangered species; waters that provide specialized recreational opportunities; waters within areas designated as lands unsuitable for mining; waters with naturally reproducing trout; waters with exceptional biological diversity and other waters with outstanding ecological or recreational value.
19. **Hot spot** means an area where land use or activities generate highly contaminated runoff, with concentrations of pollutants in excess of those typically found in stormwater. Examples might include operations producing concrete or asphalt, auto repair shops, auto supply shops, large commercial parking areas and restaurants.
20. **Improved sinkhole** is a natural surface depression that has been altered in order to direct fluids into the hole opening. Improved sinkhole is a type of injection well regulated under the Underground Injection Control (UIC) program of the Tennessee Department of Environment and Conservation. Underground injection constitutes an intentional disposal of waste waters in natural depressions, open fractures and crevices, such as those commonly associated with weathering of limestone. More information regarding an Underground Injection Control Permit can be found on TDEC’s DWR webpage at <https://www.tn.gov/content/tn/environment/permit-permits/water-permits1/underground-injection-control-permit.html>
21. **Level 1** - Fundamentals of Erosion Prevention and Sediment Control training and certification program administered by University of Tennessee Water Resources Research Center (<https://tnepsc.org/index.asp>).
22. **Level 2** - Design Principles for Erosion Prevention and Sediment Control for Construction Sites training and certification program administered by University of Tennessee Water Resources Research Center (<https://tnepsc.org/index.asp>).
23. **Linear Project** is a land disturbing activity as conducted by an underground/overhead utility or highway department, including, but not limited to, any cable line or wire for the transmission of electrical energy; any conveyance pipeline for transportation of gaseous or liquid substance; any cable line or wire for communications; or any other energy resource transmission ROW or utility infrastructure, e.g., roads and highways. Activities include the construction and installation of these utilities within a corridor. Linear project activities also include the construction of access roads, staging areas and borrow/spoil sites associated with the linear project. Land disturbance

specific to the development of residential and commercial subdivisions or high-rise structures is not considered a linear project.

24. **Monitoring** refers to tracking or measuring activities, progress, results, etc., and can refer to non-analytical monitoring for pollutants by means other than 40 C.F.R. § 136 (and other than state- or federally established protocols in the case of biological monitoring and assessments), such as visually or by qualitative tools that provide comparative values or rough estimates.
25. **Municipality** means any incorporated city or town, county, metropolitan or consolidated government, or special district of this state empowered to provide storm water facilities.
26. **Operator** means any person who owns, leases, operates, controls, or supervises a source. Including, but not limited to, an owner or operator of any “facility or activity” subject to regulation under the NPDES program.
27. **Permanent Stabilization** means that all soil disturbing activities at the site have been completed and one of the three following criteria is met:
  - A perennial, preferably native, vegetative cover with a uniform (i.e., evenly distributed, without large bare areas) density of at least 70 percent has been established on all unpaved areas and areas not covered by permanent structures, and all slopes and channels have been permanently stabilized against erosion.
  - Equivalent permanent stabilization measures such as the use of riprap; permanent geotextiles; hardened surface materials including concrete, asphalt, gabion baskets or Reno mattresses have been employed.
  - For construction projects on land used for agricultural or silvicultural purposes, permanent stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural or silvicultural use.
28. **Point source** (or Outfall) means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include introduction of pollutants from non-point source agricultural and silvicultural activities, including stormwater runoff from orchards, cultivated crops, pastures, range lands, forest lands or return flows from irrigated agriculture or agricultural stormwater runoff. In short, outfall is a point where runoff leaves the site as a concentrated flow in a discrete conveyance.
29. **Pollutant** means sewage, industrial wastes, or other wastes.
30. **Priority construction** means those construction activities discharging directly into, or immediately upstream of, waters the state recognized as unavailable condition for siltation or Exceptional Tennessee Waters.
31. A **rainfall event** is defined as any occurrence of rain preceded by 10 hours without precipitation that results in an accumulation of 0.01 inches or more. Instances of rainfall occurring within 10 hours of each other will be considered a single rainfall event.

- 32. **Registered Engineer and Registered Landscape Architect** An engineer or landscape architect certified and registered by the State Board of Architectural and Engineer Examiners pursuant to Section 62-202, Tennessee Code Annotated, to practice in Tennessee.
- 33. **Runoff coefficient** means the fraction of total rainfall that will appear at the conveyance as runoff. Runoff coefficient is also defined as the ratio of the amount of water that is not absorbed by the surface to the total amount of water that falls during a rainstorm.
- 34. **Sediment** means solid material, both inorganic (mineral) and organic, that is in suspension, is being transported; or has been moved from the site of origin by wind, water, gravity or ice as a product of erosion.
- 35. **Sediment basin** A temporary basin consisting of an embankment constructed across a wet weather conveyance, an excavation that creates a basin or by a combination of both. A sediment basin typically consists of a forebay cell, , impoundment, permanent pool, primary spillway, secondary or emergency spillway and surface dewatering device. The size and shape of the basin depends on the location, size of drainage area, incoming runoff volume and peak flow, soil type and particle size, land cover, and receiving stream classification (i.e., waters with unavailable parameters, Exceptional TN Waters, or waters with available parameters).
- 36. **Sedimentation** means the action or process of forming or depositing sediment.
- 37. **Significant Contributor** is defined as a source of pollutants where the volume, concentration, or mass of a pollutant in a stormwater discharge can cause or threaten to cause pollution, contamination, or nuisance that adversely impact human health or the environment and cause or contribute to a violation of any applicable water quality standards for receiving water.
- 38. **Soil or Topsoil** means the unconsolidated mineral and organic material on the immediate surface of the earth that serves as a natural medium for the growth of plants.
- 39. **Steep Slope or Steep Grade** means a natural or created slope of 35% grade or greater.
- 40. **Stormwater** means rainfall runoff, snow melt runoff, and surface runoff and drainage.
- 41. **Stormwater control measure or SCM** means permanent practices and measures designed to reduce the discharge of pollutants from new development projects or redevelopment projects.
- 42. **Stream** as defined by TCA 69-3-103(38) "stream" means a surface water that is not a wet weather conveyance.
- 43. **Stormwater associated with industrial activity** is defined in 40 C.F.R. 122.26(b)(14) and incorporated here by reference. Most relevant to the City is 40 C.F.R. 122.26(b)(14)(x), which relates to construction activity including clearing, grading, filling and excavation activities, including borrow pits containing erodible material. Disturbance of soil for the purpose of crop production is exempt from NPDES permit requirements, but stormwater discharges from agriculture-related activities that involve construction of structures (e.g., barn construction, road construction, pond construction) are considered associated with industrial (construction) activity. Maintenance to the original line and grade, hydraulic capacity; or to the original purpose of the facility (e.g., re-clearing, minor excavation performed around an existing structure

necessary for maintenance or repair and repaving of an existing road) is not considered a construction activity.

44. Construction ***Stormwater discharge-related activities*** mean activities that cause, contribute to or result in point source stormwater pollutant discharges. These activities may include excavation, site development, grading and other surface disturbance activities; and activities to control stormwater including the siting, construction and operation of best management practices (BMPs).
45. ***Stormwater Pollution Prevention Plan (SWPPP)*** is a written site-specific plan required by the Tennessee Construction General Permit (CGP) that includes a narrative pollution prevention plan and graphical erosion and sediment control plan. In its basic form, the plan contains a site map, a description of construction activities that could introduce pollutants to stormwater runoff, a description of measures or practices to control these pollutants, and erosion and sediment control plans and specifications. The SWPPP should be prepared in accordance with the Tennessee Erosion and Sediment Control Handbook (latest edition).
46. ***Take of an endangered species*** means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or attempt to engage in any such conduct.
47. ***Tennessee Erosion and Sediment Control (TDESC) Handbook*** is a guidance manual issued by the Division of Water Resources for the purpose of developing Stormwater Pollution Prevention Plans and Erosion and Sediment Control Plans required by the Construction General Permit CGP.
48. ***Temporary stabilization*** is achieved when vegetation or non-erodible surface has been established on the area of disturbance and construction activity has temporarily ceased. Under certain conditions, temporary stabilization is required when construction activities temporarily cease.
49. ***Treatment chemicals*** are polymers, flocculants or other chemicals used to reduce turbidity in stormwater discharges by chemically bonding to suspended silts and other soil materials and causing them to bind together and settle out. Common examples of anionic treatment chemicals are **polyacrylamide-chitosan (PAM-CS)**.
50. ***Turbidity*** is the cloudiness or haziness of a fluid caused by individual particles (suspended solids) that are generally invisible to the naked eye, similar to smoke in air.
51. ***Waste site*** is an area where material from a construction site is disposed of. When the material is erodible, such as soil, the site must be treated as a construction site.
52. ***Waters (or waters of the state)*** means any and all water, public or private, on or beneath the surface of the ground, which are contained within, flow through, or border upon Tennessee or any portion thereof, except those bodies of water confined to and retained within the limits of private property in single ownership which do not combine or effect a junction with natural surface or underground waters.
53. ***Waters with unavailable parameters*** means any segment of surface waters that has been identified by the TDEC as failing to support one or more classified uses. Unavailable parameters exist where water quality is at, or fails to meet, the levels specified in water quality criteria in

Rule 0400-40-03-.03, even if caused by natural conditions. In the case of a criterion that is a single response variable or is derived from measurement of multiple response variables, the unavailable parameters shall be the agents causing water quality to be at or failing to meet the levels specified in criteria. Resources to be used in making this determination include biennial compilations of impaired waters, databases of assessment information, updated GIS coverages (<https://tdeconline.tn.gov/dwr/>), and the results of recent field surveys. GIS coverages of the streams and lakes not meeting water quality standards, plus the biennial list of waters with unavailable parameters, can be found at <https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/water-quality-reports---publications.html>.

- 54. **Water quality riparian buffer** means a permanent strip of natural perennial vegetation adjacent to a stream, river, wetland, pond, or lake that contains dense vegetation made up of grass, shrubs, and/or trees. The purpose of a water quality riparian buffer is to maintain existing water quality by minimizing the risk of any potential sediments, nutrients, or other pollutants reaching adjacent surface waters and to further prevent negative water quality impacts by providing canopy over adjacent waters.
- 55. A **one-week period** is a synonym for a calendar-week; typically, a period from Sunday through Saturday
- 56. **Water quality treatment volume (WQTV)** is a portion of the runoff generated from impervious surfaces at a new development or redevelopment project by the 1-year 24-hour design storm. The WQTV is further determined by the type of treatment provided.
- 57. **Wet weather conveyances** are man-made or natural watercourses, including natural watercourses that have been modified by channelization, that meet the following:
  - The conveyance carries flow only in direct response to precipitation runoff in its immediate locality.
  - The conveyance’s channels are at all times above the groundwater table.
  - The flow carried by the conveyance is not suitable for drinking water supplies.
  - Hydrological and biological analyses indicate that, due to naturally occurring ephemeral or low flow under normal weather conditions, there is not sufficient water to support fish or multiple populations of obligate lotic aquatic organisms whose life cycle includes an aquatic phase of at least two months. (Tennessee Rules, Chapter 0400-40-3-.04(3)).

**14-403. Construction Stormwater Management**

- (1) MS4 Stormwater Construction BMP Manual.
  - a. Adoption. The City of Jefferson City adopts as its MS4 stormwater construction BMP manual(s) the following publication(s), which is incorporated by reference in this ordinance as if fully set out herein:
    - i. TDEC Erosion and Sediment Control Handbook; most current edition.

- ii. The Tennessee Permanent Stormwater Management and Design Guidance Manual; most current edition.
    - iii. A collection of MS4 approved BMPs developed or collected by the MS4 that comply with the goals of the MS4 permit and/or the CGP.
  - b. The City of Jefferson City has adopted, for use in designing Stormwater Control Measures, construction design storm events. The construction design storm events adopted by the city are as follows: An adequate drainage system is one that is designed to meet a 2,5, and 10-year storm event. For an outfall in a drainage area of a total of 5 or more acres, a temporary (or permanent) sediment basin that provides storage for a calculated volume of runoff from a 5-year, 24-hour storm and runoff from each acre drained, or equivalent control measures, shall be provided until final stabilization of the site. A drainage area of 5 or more acres includes both disturbed and undisturbed portions of the site or areas adjacent to the site, all draining through the common outfall. Where an equivalent control measure is substituted for a sediment retention basin, the equivalency must be justified. Runoff from any undisturbed acreage should be diverted around the disturbed area and the sediment basin and, if so, can be omitted from the volume calculation. Sediment storage expected from the disturbed areas must be included and a marker installed signifying a cleanout need.
  - c. Requirements for design storm for all waters as well as special conditions for unavailable parameters waters or exceptional Tennessee waters must be consistent with those of the current Tennessee Construction General Permit (TNR100000).
- (2) The municipality has adopted, for use in designing EPSC measures, the design storm requirements from the current Tennessee Construction General Permit for all waters as well as special conditions for unavailable parameters or Exceptional Tennessee Waters.
- (3) Waste Control Construction site operators are required to minimize the exposure of building materials, building products, construction waste, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater.
- (4) Priority Construction
  - a. Priority in construction shall be, at a minimum, those construction activities discharging directly into, or immediately upstream of, waters the state recognized as unavailable condition for siltation or Exceptional Tennessee Waters.
  - b. Requirements for all priority construction activities must include preconstruction meetings with construction site operators for priority construction activities.
- (5) Land development permit
  - i. This section shall be applicable to all land development, including, but not limited to, site plan applications, subdivision applications, land disturbance applications and grading applications. These standards apply to qualifying new development or redevelopment site(s), When required. Every person will be

- required to obtain a land disturbance permit from the City in the following cases- One (1) acre or more;
- ii. New development that involves land development activities of one (1) acre or more;
  - iii. Redevelopment that involves other land development activity of one (1) acre or more;
- b. Projects of less than one acre of total land disturbance may also be required to obtain authorization under this ordinance if:
- i. The City of Jefferson City has determined that the stormwater discharge from a site is causing, contributing to, or is likely to contribute to a violation of a state water quality standard; or is likely to be a significant contributor of pollutants to water of the state,
  - ii. Changes in state or federal rules require sites of less than one acre that are not part of a larger common plan of development or sale to obtain a stormwater permit;
  - iii. Any new development or redevelopment, regardless of size, that is defined by the City to be a hot spot land use; or
  - iv. the minimum applicability criteria set forth in item (a) above if such activities are part of a larger common plan of development, (see “common plan of development” definition).
  - v. The creation and use of borrow pits, that are not permitted under the Tennessee Multi Sector Permit (TMSP), where material is excavated and relocated offsite, and fill sites where materials or earth is deposited by mechanized methods resulting in an increased elevation or grade.
  - vi. As determined by the City for single or duplex residential lots of any size, lots that have karst features, adjoining lakes or streams, slopes exceeding fifteen percent (15%), floodplains or streams to cross are required to submit an erosion control and stormwater management plan. Depending on site specific conditions the requirement that the plan be developed by a qualified licensed professional engineer or landscape architect may be waived by the City
  - vii. Minimal plan requirements shall include pre- and post-stormwater runoff directions, construction access, erosion/sediment control measures, roof downspout direction and termination, swales and temporary and/or permanent soil stabilization.
  - viii. Land disturbance activities in a Special Flood Hazard Area require a permit and shall provide evidence of obtaining appropriate licenses/permits that may be required by federal or state laws and regulations or written waiver from such

permits and licenses prior to the issuance of a land disturbance permit by the City.

- ix. If unpermitted construction activity is on-going, the City will issue an immediate stop-work order. If, in addition to the City's permit, a TDEC permit was required but was not obtained, the violator will also be reported to TDEC.
- x. Any discharge of stormwater or other fluid to an improved sinkhole or other injection well, as defined, must be authorized by permit or rule as a Class V underground injection well under the provisions of Tennessee Department of Environment and Conservation (TDEC) Rules, Chapter 0400-45-06)

- (6) Land disturbance/Grading/Stormwater Construction Permit- Persons seeking the issuance of any land disturbance permit must provide proof of coverage under the Tennessee Construction General Permit (CGP) (if applicable) when requested; and a copy of the Stormwater Pollution Prevention Plan (SWPPP) to the city when requested.
- a. Copies of additional applicable local, state or federal permits (i.e.: ARAP, approved hydrologic determination, etc.) must also be provided to the city.
  - b. The City has the authority to withhold local permits prior to receiving copies of the aforementioned permits.
  - c. In circumstances where no such permits have been required, the city may still require a SWPPP as part of the land disturbance permit application.

Land Disturbance Permit Fee Schedule:

<b>Disturbed Acreage</b>	<b>From</b>	<b>To</b>
0.01 – 0.99 Acres	\$50.00	\$50.00
1.00 – 5.00 Acres	\$50.00	\$250.00
5.00 – 10.00 Acres	\$250.00	\$500.00
10.00 – 20.00 Acres	\$500.00	\$1,000.00
20.00 – 30.00 Acres	\$1,000.00	\$1,500.00
30.00 – 100.00 Acres	\$1,500.00	\$5,000.00
>100.00 Acres	\$5200.00	

- (7) Building Permit. No building permit shall be issued until the applicant has first obtained a land disturbance permit where required by this ordinance.
- (8) Construction site operators are required to implement appropriate erosion prevention and sediment control measures and best management practices. EPSC requirements, shall meet the Tennessee's CGP design storm(s), be consistent with the TDEC EPSC Handbook best management practices and with the requirements of this ordinance.
- (9) Where site assessments are required by the CGP, the operator shall provide a copy of the assessment to the City.

(10) Twice-Weekly inspections of the site and the BMP's/SCM's must be performed by an individual who has either received certification under the Level I Fundamentals of Erosion Prevention and Sediment Control course or has other credentials identified as equivalent within this ordinance.

(11) Landscaping and stabilization requirements.

- a. Any area of land from which the natural vegetative cover has been either partially or wholly cleared by development activities shall be stabilized. Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased. Temporary or permanent soil stabilization at the construction site (or a phase of the project) must be completed not later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. In the following situations, temporary stabilization measures are not required:
  - i. where the initiation of stabilization measures is precluded by snow cover or frozen ground conditions or adverse soggy ground conditions, stabilization measures shall be initiated as soon as practicable; or
  - ii. where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 14 days.
- b. For steep slopes of 35% or more i stabilization measures shall be initiated within 7 days Construction buffer zones. Construction buffer zones shall be those water quality buffers and buffer zones as defined in 14-402 above and shall meet the requirements in this ordinance and, where appropriate in the TN CGP. The criteria for the width of the construction buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than the required minimum width at any measured location. If the new development or redevelopment site encompasses both sides of a stream, buffer averaging can be applied to both sides but must be applied independently. Water quality riparian buffer widths are measured from the top of bank also referred to as the "ordinary high-water mark." Construction buffers are not primary sediment control measures and shall not be relied on as such. Stormwater discharges must enter the water quality riparian buffer zone as sheet flow, not as concentrated flow, where site conditions allow. The designer/operator must comply with the vegetation requirements and the permissible land uses set forth for buffers in the TN CGP. Where it is not practicable to maintain a construction water quality riparian buffer, BMPs providing equivalent protection to a receiving stream as a natural water quality riparian buffer must be used.
- c. In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures such as properly anchored mulch, soil binders or matting must be employed.

(12) Notice of Termination (NOT) the operator shall provide the City with a copy of the NOT when it is issued by TDEC.

(13) As built plans (record drawings). All applicants are required to submit actual as built plans certified by the design engineer for any structures located on-site after final construction is

completed. The plan must show the final design specifications for all stormwater management facilities and must be sealed by a registered professional engineer licensed to practice in Tennessee. A certification by the design engineer certifying that SCM's will function within original design parameters as constructed shall be included. A final inspection by the city is required before any performance security or performance bond will be released. The City shall have the discretion to adopt provisions for a partial pro-rata release of the performance security or performance bond on the completion of various stages of development. In addition, occupation permits shall not be granted until corrections to all BMP's/SCM's have been made and accepted by the City. No bonds or securities shall be released by the City until the (stormwater manager) has accepted the as built plans. The warranty period for any infrastructure to be accepted by the City for maintenance shall not commence until the City has accepted the as built plans.

- (14) Equipment manufacturer startups. No bonds or securities shall be released until any equipment to be maintained by the City passes any specified manufacturer startup procedure. The warranty period shall not commence prior to the equipment passing any specified manufacturer startup procedure.

**14-404. Permanent stormwater management: design and construction inspection.**

- (1) In order to comply with the City's permanent stormwater standards for new development and redevelopment projects, design and install SCMs as established by Tennessee Rule 0400-40-10-.04 and comply with other requirements of Tennessee Rule 0400-40-10-.04. Note that for design purposes, total suspended solids (TSS) may be used as the indicator for the reduction of pollutants.
- (2) SCMs must be designed to provide full treatment capacity within 72 hours following the end of the preceding rain event for the life of the new development or redevelopment project. SCMs shall generally be as described in the TN Permanent Stormwater Management & Design guidance Manual. However, other SCMs will be considered if their successful implementation in other jurisdictions can be demonstrated to the satisfaction of the Department.
- (3) The water quality treatment design storm is a 1-year, 24-hour storm event as defined by Precipitation-Frequency Atlas of the United States. Atlas 14. Volume 2. Version 3.0. U.S. Department of Commerce. National Oceanic and Atmospheric Administration (NOAA), National Weather Service, Hydrometeorological Design Studies Center, Silver Springs, Maryland or its digital product equivalent.
- (4) The water quality treatment volume (WQTV) is a portion of the runoff generated from impervious surfaces at a new development or redevelopment project by the design storm, as set forth below. SCMs must be designed, at a minimum, to achieve an overall treatment efficiency of 80% TSS removal from the WQTV.
- (5) The quantity of the WQTV depends on the type of treatment provided, as established in the following table:

**Water Quality Treatment Volume and the Corresponding SCM Treatment Type  
For the 1-Year, 24-Hour Design Storm**

SCM Treatment Type	WQTV	Notes
Infiltration, evaporation, transpiration, and/or reuse	Runoff generated from the first 1 inch of the design storm	Examples include, but are not limited to, bioretention, stormwater wetlands, and infiltration systems.
Biologically active filtration, with an underdrain	Runoff generated from the first 1.25 inches of the design storm	To achieve biologically active filtration, SCMs must provide minimum of 12 inches of internal water storage.
Sand or gravel filtration, settling ponds, extended detention ponds, and wet ponds	Runoff generated from the first 2.5 inches of the design storm or the first 75% of the design storm,	Examples include, but are not limited to, sand filters, permeable pavers, and underground gravel detention systems. Ponds must provide forebays comprising a minimum of 10% of the total design volume. Existing regional detention ponds are not subject to the forebay requirement.
Hydrodynamic separation, baffle box settling, other flow-through manufactured treatment devices (MTDs), and treatment trains using MTDs	Maximum runoff generated from the entire design storm	Flow-through MTDs must provide an overall treatment efficiency of at least 80% TSS reduction. Refer to subparagraph (2)(d) of this rule

(6). Limitations to the application of certain stormwater control measures include, but are not limited to:

- a. Where a potential for introducing pollutants into groundwater exists, unless pretreatment is provided;
- b. Where pre-existing soil contamination is present in areas subject to contact with infiltrated runoff;
- c. Presence of sinkholes or other karst features.

(7). Pre-development infiltrative capacity of soils at the site must be taken into account in selection of runoff reduction management measures.

(8). **Treatment Train Calculations**

a. Treatment Trains using MTDs.

Treatment trains using MTDs must provide an overall treatment efficiency of at least 80% TSS reduction utilizing the following formula:

$$R=A+B-(A \times B) / 100$$

Where:

R = total TSS percent removal from applications of both SCMs,  
A = the TSS percent removal rate applicable to the first SCM, and  
B = the TSS percent removal rate applicable to the second SCM.  
TSS removal rates for MID must be evaluated using industry-wide standards.  
TSS removal rates for other SCMs must be from published reference literature.

b. Treatment trains not using MTDs.

Treatment trains using infiltration, evaporation, transpiration, reuse, or biologically active filtration followed by sand or gravel filtration, settling ponds, extended detention ponds or wet ponds may subtract the treated WQTV of the upstream SCMs from the WQTV of the downstream SCMs.

- (9). Water Quality Riparian Buffers. Post Construction/Permanent water quality riparian buffers shall be those buffers defined in 14-402 above and shall meet the requirements described in this ordinance. The criteria for the width of the post construction/permanent buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than the required minimum width at any measured location. If the new development or redevelopment site encompasses both sides of a stream, buffer averaging can be applied to both sides but must be applied independently. Water quality riparian buffer widths are measured from the top of bank also referred to as the “ordinary high-water mark.” Stormwater discharges should enter the post construction/permanent water quality riparian buffer as sheet flow, not as concentrated flow, where site conditions allow.

Post Construction/Permanent buffers for waters with available parameters for siltation or habitat alteration or unassessed waters:

- a. Minimum buffer width: 30 feet

Post Construction/Permanent buffers for Exceptional Tennessee Waters or waters with unavailable parameters for siltation or habitat alteration:

- a. Average buffer width: 60 feet.
- b. Minimum buffer width: 30 feet

The designer/operator must comply with the vegetation requirements and the permissible land uses set forth for buffers in the MS4 permit.

**14-405. Permanent SCM maintenance and inspection.**

- (1) As built plans. All applicants are required to submit actual as built plans for any structures located on-site within 90 days after final construction is completed. The plan

must show the final design specifications for all stormwater management facilities and must be sealed by either a registered professional engineer or landscape architect licensed to practice in Tennessee. A sealed certification by the design engineer that all SCM's will function within design parameters as constructed shall accompany the as built plans. A final inspection by Jefferson City is required before any performance security or performance bond will be released. The City shall have the discretion to adopt provisions for a partial pro-rata release of the performance security or performance bond on the completion of various stages of development. In addition, occupation permits shall not be granted until corrections to all stormwater management facilities have been made and accepted by the City.

- (2) In addition to the certified as built drawings, the City shall be provided with a permanent stormwater management plan for the site and all stormwater management facilities (e.g., SCM's). Occupation permits shall not be granted until the permanent stormwater management plan has been approved and accepted by the City.
- (3) Inspection of stormwater management facilities. Periodic inspections of facilities shall be performed, documented, and reported in accordance with this chapter, as detailed in §14-406.
- (4) Records of installation and maintenance activities. Parties responsible for the operation and maintenance of a stormwater management facility shall make records of the installation of the stormwater facility, and of all maintenance and repairs to the facility, and shall retain the records for at least three (3) years. These records shall be made available to the City during inspection of the facility and at other reasonable times upon request.
- (5) Failure to meet or maintain design or maintenance standards. If a responsible party fails or refuses to meet the design or maintenance standards required for stormwater facilities under this chapter, the City, after notice as specified in the Enforcement Response Plan, may correct a violation of the design standards or maintenance needs by performing all necessary work to place the facility in proper working condition. In the event that the stormwater management facility becomes a danger to public safety or public health, the City shall notify in writing the party responsible for maintenance of the stormwater management facility. Upon receipt of that notice, the responsible person shall have thirty (30) days to effect maintenance and repair of the facility in an approved manner. In the event that corrective action is not undertaken within that time, the city may take necessary corrective action. The cost of any action by the City under this section shall be charged to the responsible party.
- (6) In the event that the stormwater management facility becomes a danger to public health/public safety-the city may take such immediate corrective action as deemed necessary.

**14-406. Permanent SCM's: new development, existing locations, and ongoing developments.**

- (1) On-site stormwater management facilities inspection and maintenance agreement<sup>1</sup>
  - a. Where the stormwater facility is located on property that is subject to a development agreement, and the development agreement provides for a permanent stormwater maintenance agreement that runs with the land, the owners of property must execute an inspection and maintenance agreement that shall operate as a deed restriction binding on the current property owners and all subsequent property owners and their lessees and assigns, including but not limited to, homeowner associations or other groups or entities.
  - b. The maintenance agreement shall:
    - i. Assign responsibility for the maintenance and repair of the stormwater facility to the owners of the property upon which the facility is located and be recorded as such on the plat for the property by appropriate notation.
    - ii. Provide for a periodic inspection by the property owners in accordance with the requirements of subsection (5) below for the purpose of documenting maintenance and repair needs and to ensure compliance with the requirements of this ordinance. The property owners will arrange for this inspection to be conducted by individual(s) approved by the City who will submit a signed written report of the inspection to the City. It shall also grant permission to the City to enter the property at reasonable times and to inspect the stormwater facility to ensure that it is being properly maintained.
  - c. Provide that the minimum maintenance and repair needs include but are not limited to: the removal of silt, litter and other debris, the cutting of grass, cutting and vegetation removal, and the replacement of landscape vegetation, in detention and retention basins, and inlets and drainage pipes and any other stormwater facilities. It shall also provide that the property owners shall be responsible for additional maintenance and repair needed to meet the intended design specification of the stormwater facility.
  - d. Provide that maintenance needs must be addressed in a timely manner, on a schedule to be determined by the city.
  - e. Provide that if the property is not maintained or repaired within the prescribed schedule, the City shall perform the maintenance and repair at its expense and bill the

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same to the property owner. The maintenance agreement shall also provide that the City's cost of performing the maintenance shall be a lien against the property.

(2) Existing problem locations – no maintenance agreement

- a. The City shall in writing notify the owners of existing locations and developments of specific drainage, erosion or sediment problems affecting or caused by such locations and developments, and the specific actions required to correct those problems. The notice shall also specify a reasonable time for compliance. Discharges from existing SCM's that have not been maintained and/or inspected in accordance with this ordinance shall be regarded as non-compliant discharges.
  
- b. Inspection of existing facilities. The City may, to the extent authorized by state and federal law, enter and inspect private property for the purpose of determining if there are illicit non-stormwater discharges, and establish inspection programs to verify that all stormwater management facilities are functioning within design limits. These inspection programs may be established on any reasonable basis, including but not limited to: routine inspections; random inspections; inspections based upon complaints or other notice of possible violations; inspection of drainage basins or areas identified as higher than typical sources of sediment or other contaminants or pollutants; inspections of businesses or industries of a type associated with higher than usual discharges of contaminants or pollutants or with discharges of a type which are more likely than the typical discharge to cause violations of the City's NPDES MS4 stormwater permit; and joint inspections with other agencies inspecting under environmental or safety laws. Inspections may include but are not limited to: reviewing maintenance and repair records; sampling discharges, surface water, groundwater, and material or water in drainage control facilities; and evaluating the condition of drainage control facilities and other SCM's.

(3) Owner/Operator Inspections. The owners and/or operators of the SCMs shall:

- a. Perform routine inspections to ensure that all SCM's are properly functioning. These inspections shall be conducted on an annual basis, at a minimum. These inspections shall be conducted by a person familiar with control measures implemented at a site. Owners or operators shall maintain documentation of these inspections. The city may require submittal of this documentation.
  
- b. Perform comprehensive inspection of all stormwater management facilities and practices. These inspections shall be conducted once every five years, at a minimum. Such inspections must be conducted by individual(s) approved by the city. Complete inspection reports for these five-year inspections shall include:

- i. Facility type,
  - ii. Inspection date,
  - iii. Latitude and longitude and nearest street address,
  - iv. BMP owner information (e.g. name, address, phone number, fax, and email),
  - v. A description of BMP condition including: vegetation and soils; inlet and outlet channels and structures; embankments, slopes, and safety benches; spillways, weirs, and other control structures; and any sediment and debris accumulation,
  - vi. Photographic documentation of BMP's, and
  - vii. Specific maintenance items or violations that need to be corrected by the BMP owner along with deadlines and reinspection dates.
- c. Owners or operators shall maintain documentation of these inspections. The city may require submittal of this documentation.

(4) Requirements for all existing locations and ongoing developments. The following requirements apply to all locations and developments at which land disturbing activities have occurred previous to the enactment of this ordinance:

- a. Denuded areas must be vegetated or covered under the standards and guidelines specified in the BMP Manual and on a schedule acceptable to the city.
- b. Cuts and slopes must be properly covered with appropriate vegetation and/or retaining walls constructed.
- c. Drainage ways shall be appropriately stabilized.
- d. Trash, junk, rubbish, etc. shall be cleared from drainage ways.

Stormwater runoff shall, at the discretion of the City, be treated to the maximum extent practicable to prevent its pollution. Such control measures may include, but are not limited to, the following:

- i. Ponds
  - 1. Detention pond
  - 2. Extended detention pond
  - 3. Wet pond
  - 4. Alternative storage measures
- ii. Constructed wetlands
- iii. Infiltration systems

1. Infiltration/percolation trench
  2. Infiltration basin
  3. Drainage/recharge well
  4. Porous pavement
- iv. Filtering systems
1. Media Filter
  2. Sand filter
  3. Filter/absorption bed
  4. Filter and buffer strips
- v. Open channel
1. Swale

(5) Corrections of problems subject to appeal. Corrective measures imposed by the City under this section are subject to appeal under section 14-510 of this chapter.

**14-407. Illicit discharges.**

This section shall apply to all water generated on developed or undeveloped land entering the City's separate storm sewer system.

(1) Prohibition of illicit discharges. No person shall introduce or cause to be introduced into the municipal separate storm sewer system any discharge that is not composed entirely of stormwater. No person shall allow discharges that flow from a stormwater facility that is not inspected in accordance with section 14-406. Non-stormwater discharges shall include, but shall not be limited to, sanitary wastewater, car wash wastewater, radiator flushing disposal, spills from roadway accidents, carpet cleaning wastewater, effluent from septic tanks, improper oil disposal, laundry wastewater/gray water, improper disposal of auto and household toxics. The commencement, conduct or continuance of any non-stormwater discharge to the municipal separate storm sewer system is prohibited except as described as follows:

- a. Water line flushing
- b. Landscape irrigation
- c. Diverted stream flows
- d. Rising ground waters
- e. Uncontaminated ground water infiltration (Infiltration is defined as water other than wastewater that enters a sewer system, including sewer service connections and

foundation drains, from the ground through such means as defective pipes, pipe joints, connections, or manholes. Infiltration does not include, and is distinguished from, inflow.)

- f. Uncontaminated pumped ground water
- g. Discharges from potable water sources
- h. Air conditioning condensation
- i. Irrigation water
- j. Springs
- k. Water from crawl space pumps
- l. Footing (foundation) drains
- m. Lawn watering
- n. Individual residential car washing
- o. Flows from riparian habitats and wetlands
- p. Dechlorinated swimming pool discharges
- q. Street wash water with no soaps or solvents
- r. Discharges or flows from firefighting activities

Unless the City determines they are significant contributors of pollutants to the MS4.

(2) Prohibition of illicit connections. The construction, use, maintenance or continued existence of illicit connections to the municipal separate storm sewer system is prohibited. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. This prohibition expressly includes SCM's connected to the system not properly inspected and maintained in accordance with this ordinance.

- a. Any person responsible for a property or premises, which is, or may be, the source of an illicit discharge, may be required to implement, at the person's expense, the BMP's necessary to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of stormwater associated with industrial activity, to the extent practicable, shall be deemed in compliance with the provisions of this section. Discharges from existing SCM's that have not been maintained and/or inspected in accordance with this ordinance shall be prohibited.

(3) Notification of spills. Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or

operation has information of any known or suspected release of materials which are resulting in, or may result in, illicit discharges or pollutants discharging into, the municipal separate storm sewer system, the person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of hazardous materials the person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services. In the event of a release of non-hazardous materials, the person shall notify the City in person or by telephone, fax, or email, no later than the next business day. Notifications in person or by telephone shall be confirmed by written notice addressed and mailed to the City within three (3) business days of the telephone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three (3) years.

- (4) No illegal dumping allowed. No person shall dump or otherwise deposit outside an authorized landfill, convenience center or other authorized garbage or trash collection point, any trash or garbage of any kind or description on any private or public property, occupied or unoccupied, inside the City. Such illegal activity exposes runoff to contamination, generating an illicit discharge. Therefore, any individual or corporation guilty of illegal dumping may have committed a violation of this ordinance.

**14-408. Enforcement.**

(1) Enforcement authority. The City of Jefferson City shall have the authority to issue notices of violation and citations, and to impose civil penalties to anyone that violates this chapter, who violates the provisions of any permit issued pursuant to this chapter, or who fails or refuses to comply with any lawful communication or notice to abate or take corrective action by the City, The City’s enforcement authority includes (as set forth in the City’s Enforcement Response Plan (ERP)):

- (a) Verbal Warnings – At a minimum, verbal warnings must specify the nature of the violation and required corrective action.
- (b) Written Notices – Written notices must stipulate the nature of the violation and the required corrective action, with deadlines for taking such action.
- (c) Citations with Administrative Penalties – The City has the authority to assess monetary penalties, which may include civil and administrative penalties.
- (d) Stop Work Orders – Stop work orders that require construction activities to be halted, except for those activities directed at cleaning up, abating discharge, and installing appropriate control measures.

- (e) Withholding of Plan Approvals or Other Authorizations – Where a facility is in noncompliance, the City’s own approval process affecting the facility’s ability to discharge to the MS4 can be used to abate the violation.
  
- (f) Additional Measures – The City may also use other escalated measures provided under local legal authorities. The City may perform work necessary to improve erosion control measures and collect the funds from the responsible party in an appropriate manner, such as collecting against the project’s bond or directly billing the responsible party to pay for work and materials.

(2) Notification of violation:

- (a) Verbal warning. Verbal warning may be given at the discretion of the inspector when it appears the condition can be corrected by the violator within a reasonable time, which time shall be approved by the inspector.
  
- (b) Written notice. Whenever the City finds that any permittee or any other person discharging stormwater has violated or is violating this ordinance or a permit or order issued hereunder, the City may serve upon such person written notice of the violation. Within ten (10) days of this notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted to the City. Submission of this plan in no way relieves the discharger of liability for any violations occurring before or after receipt of the notice of violation.
  
- (c) Consent orders. The City is empowered to enter into consent orders, assurances of voluntary compliance, or other similar documents establishing an agreement with the person responsible for the noncompliance. Such orders will include specific action to be taken by the person to correct the noncompliance within a time period also specified by the order. Consent orders shall have the same force and effect as administrative orders issued pursuant to paragraphs (d) and (e) below.
  
- (d) Show cause hearing. The City may order any person who violates this chapter or permit, or order issued hereunder, to show cause why a proposed enforcement action should not be taken. Notice shall be served on the person specifying the time and place for the meeting, the proposed enforcement action and the reasons for such action, and a request that the violator show cause why this proposed enforcement action should not be taken. The notice of the meeting shall be served personally or by registered or certified mail (return receipt requested) at least ten (10) days prior to the hearing.

- (e) Compliance order. When the City finds that any person has violated or continues to violate this chapter or a permit or order issued thereunder, he may issue an order to the violator directing that, following a specific time period, adequate structures or devices be installed and/or procedures implemented and properly operated. Orders may also contain such other requirements as might be reasonably necessary and appropriate to address the noncompliance, including the construction of appropriate structures, installation of devices, self-monitoring, and management practices.
  
- (f) Cease and desist and stop work orders. When the City finds that any person has violated or continues to violate this chapter or any permit or order issued hereunder, the City may issue a stop work order or an order to cease and desist all such violations and direct those persons in noncompliance to:
  - (i) Comply forthwith; or
  - (ii) Take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation; including halting operations except for terminating the discharge and installing appropriate control measures.
  
- (g) Suspension, revocation or modification of permit. The city may suspend, revoke or modify the permit authorizing the land development project or any other project of the applicant or other responsible person within the city. A suspended, revoked or modified permit may be reinstated after the applicant or other responsible person has taken the remedial measures set forth in the notice of violation or has otherwise cured the violations described therein, provided such permit may be reinstated upon such conditions as the City may deem necessary to enable the applicant or other responsible person to take the necessary remedial measures to cure such violations.
  
- (h) Conflicting standards. Whenever there is a conflict between any standard contained in this chapter and in the BMP manual(s) adopted by the City under this ordinance, the strictest standard shall prevail.

**14-409. Penalties. Violations.** Any person who shall commit any act declared unlawful under this chapter, who violates any provision of this chapter, who violates the provisions of any permit issued pursuant to this chapter, or who fails or refuses to comply with any lawful communication or notice to abate or take corrective action by the City, shall be guilty of a civil offense.

(1) Penalties. Under the authority provided in Tennessee Code Annotated § 68-221-1106, the City of Jefferson City declares that any person violating the provisions of this chapter may be assessed a civil penalty by the City of not less than fifty dollars (\$50.00) and not more than five thousand dollars

(\$5,000.00) per day for each day of violation. Each day of violation shall constitute a separate violation.

- (2) Measuring civil penalties. In assessing a civil penalty, the City shall consider:
- (a) The harm done to the public health or the environment;
  - (b) Whether the civil penalty imposed will be a substantial economic deterrent to the illegal activity;
  - (c) The economic benefit gained by the violator;
  - (d) The amount of effort put forth by the violator to remedy this violation;
  - (e) Any unusual or extraordinary enforcement costs incurred by the City; The amount of penalty established by ordinance or resolution for specific categories of violations; and
  - (f) Any equities of the situation which outweigh the benefit of imposing any penalty or damage assessment.
- (3) Recovery of damages and costs. In addition to the civil penalty in subsection (2) above, the City may recover:
- (a) All damages proximately caused by the violator to the City, which may include any reasonable expenses incurred in investigating violations of, and enforcing compliance with, this chapter, or any other actual damages caused by the violation.
  - (b) The costs of the City's maintenance of stormwater facilities when the user of such facilities fails to maintain them as required by this chapter.
- (4) Referral to TDEC. In accordance with the City's Enforcement Response Plan and the NPDES Permit requirements, the City may also notify TDEC of violations.
- (5) Other remedies. The City may bring legal action to enjoin the continuing violation of this chapter, and the existence of any other remedy, at law or equity, shall be no defense to any such actions.
- (6) Remedies cumulative. The remedies set forth in this section shall be cumulative, not exclusive, and it shall not be a defense to any action, civil or criminal, that one (1) or more of the remedies set forth herein has been sought or granted.

**14-410. Appeals.** Pursuant to Tennessee Code Annotated § 68-221-1106(d), any person aggrieved by the imposition of a civil penalty or damage assessment as provided by this chapter may appeal said penalty or damage assessment to the City's governing body.

- (1) Appeals to be in writing. The appeal shall be in writing and filed with the municipal recorder or clerk within fifteen (15) days after the civil penalty and/or damage assessment is served in any manner authorized by law.
  
- (2) Public hearing. Upon receipt of an appeal, the City's governing body, or other appeals board established by the City's governing body shall hold a public hearing within thirty (30) days. Ten (10) days prior notice of the time, date, and location of said hearing shall be published in a daily newspaper of general circulation. Ten (10) days' notice by registered mail shall also be provided to the aggrieved party, such notice to be sent to the address provided by the aggrieved party at the time of appeal. The decision of the governing body of the city shall be final.
  
- (3) Appealing decisions of the City's governing body. Any alleged violator may appeal a decision of the City's governing body pursuant to the provisions of Tennessee Code Annotated, title 27, chapter 8.



## MEMORANDUM

TO: Mitch Cain, City of Jefferson City Mayor

FROM: Richard Yakubic, Executive Director

DATE: March 9, 2026

SUBJECT: FY 2027 Planning Advisory Services

The East Tennessee Development District (ETDD) has been pleased to provide local planning services at the same annual fee for the past two years. We have tried adopting the state planning contract format since we took over planning in 2011. However, that method is not working because we do not have the subsidies that the state was able to provide. And, due to the increase in the cost of living and inflation, our costs have increased to the point that we need to change the way we do planning and the way our contracts are structured.

The intent of the contracts moving forward will be based on a model that will provide for the following categories:

1. Maintenance or basic services (maintenance of what you already have in place)
2. Foundational or Added services (anything that is updated or added to your program)
3. Comprehensive Services (More comprehensive planning)

The contract that you will find attached will be your basic services contract and will outline the scope of services to maintain what you already have in place. That contract amount will increase slightly for the upcoming year and that amount will be listed below. Any additional services required will need to be quoted and the contract amended.

Therefore, the next contract period will be for FY 2027 and will begin on July 1, 2026, and continue through June 30, 2027. For budgetary purposes, the FY 2027 annual planning contract amount will be \$13,062.00 for the City of Jefferson City.

Please find attached the contract that needs to be signed and sent back to the attention of Christie Burt, [cburt@etdd.org](mailto:cburt@etdd.org) or mail ETDD, P.O. Box 249, Alcoa, TN 37701-0249. An invoice for the first installment of the total annual contract amount will be mailed to you on July 1, 2026. Also attached is a copy of your Annual Work Plan for 2026-2027.

Thank you for the opportunity to serve your community in this regard. Please do not hesitate to contact me at [ryakubic@etdd.org](mailto:ryakubic@etdd.org) or (865) 273-6003x116 should you have any questions or concerns.

**LOCAL PLANNING ADVISORY SERVICES CONTRACT**

This Local Planning Advisory Services Contract (“Contract”) entered into the 1<sup>st</sup> day of July 2026 between the East Tennessee Development District, an agency composed of member governments in mid-east Tennessee, (“ETDD”) and the City of Jefferson City, Tennessee (“Contract Community”).

**I. FINDINGS & DECLARATIONS**

- A. Tennessee Code Annotated, § 13-14-101 and the following sections establish a delineation of regions deemed viable to the economic development of the state and allow for the creation of development districts for these regions, encompassing one (1) or more counties or parts of counties, so they are conducive to efficient planning and orderly economic development of the state.
- B. Tennessee Code Annotated, § 13-14-101 to § 13-14-114 established ETDD, a public body on behalf of the counties of Anderson, Blount, Campbell, Claiborne, Cocke, Grainger, Hamblen, Jefferson, Knox, Loudon, Monroe, Morgan, Roane, Scott, Sevier, and Union and all incorporated municipalities and metropolitan governments located within these counties.
- C. ETDD is empowered, among other duties, "to receive and expend funds from any sources for staffing, for research, planning, coordination, economic development, demonstration projects and other activities deemed necessary to promote the efficient, harmonious and economic development of the region."
- D. The Contract Community requests ETDD to provide planning advisory services and agrees to appropriate the necessary funds for these services.

**II. SCOPE OF SERVICES**

In consideration of these findings and declarations and other valuable considerations, the parties agree as follows:

- A. During the twelve (12) month period beginning July 1, 2026, and ending June 30, 2027, ETDD agrees to furnish the services of professionally trained planning advisors who will confer with local officials, relevant boards and commissions.
- B. A work program derived from the services listed below will be developed jointly between ETDD and the Contract Community within thirty (30) days of signing the Contract by both parties. Other activities may be included depending on the scope and nature of the desired services and ETDD’s capacity. Any services outside basic (maintenance) planning services are subject to additional charges above the effective Contract fee. All services must be agreed upon mutually by the Contract Community and ETDD.

- C. These services are provided with the overall objective of establishing processes and tools to maintain an effective planning program that is comparable to contract communities that are provided with basic services. The following services will be provided:
- D. Functioning as the attending advisor of planning commissions, board of zoning appeals, historic zoning commissions, periodic work sessions, requested public hearings, design review meetings, and other board/commission meetings as requested and scheduling permits.
- E. Advice, interpretation, and/or recommendations to developers, surveyors, engineers, public officials, and other similar entities involved with the local planning program. Review and prepare staff recommendations for site plans, subdivision plats, board of zoning appeals requests, and other related project reviews. Reviewing official minutes from planning commission or board of zoning appeals for accuracy and content generated by the appropriate members of the relevant commission or board. Assisting with the established annual work program for the Contract Community.
- F. Preparation of amendments to land use controls for adoption, implementation, and enforcement by local community officials, including but not limited to zoning ordinances, subdivision regulations, flood plain management regulations, administrative processes, or other land use controls; review of development proposals; advice and assistance to administrators of zoning, subdivision regulations, and other land use controls. Individual training sessions, by request, as time permits.
- G. Maintenance G.I.S. mapping services of existing inventory of maps to include standard zoning map updates, illustrations for rezonings, annexations, and de-annexations. Any additional maps and updating of existing maps are subject to an additional charge.
- H. Therefore, these planning services may account for a variety of work to assist the Contract Community in establishing an effective planning program that will be beneficial to manage growth and development.

**III. TERMS AND CONDITIONS**

- A. Payment for services provided by ETDD to The Contract Community, will be based on the agreed-upon activities requested in **Section II**. For the purpose of providing funds necessary to carry out the provisions of this Contract, IT IS AGREED that the chief legislative body will pay to ETDD the sum of \$13,062.00 annually, payable in total upon the effective date of this Contract, or in bi-annual installments of \$6,531.00, due and payable on the first day of July 2026 and the first day of January 2027. The Contract Community hereby authorizes ETDD to apply on their behalf for any eligible funds from State

sources to supplement the Contract amount and to use such grant funds to cover the cost of providing planning services to the community.

- B. Either party may terminate this Contract by giving written notice to the other party specifying the date of termination, at least ninety (90) days before the termination date. Upon termination of the Contract, the obligation of ETDD to conduct and carry on the program agreed to under this Contract shall cease, the financial obligation of the chief legislative body as described in this Contract above likewise ceases. If prepayment has been made by the chief legislative body, ETDD will determine, by prorating, the amount to be refunded.
- D. This Contract is for a period of twelve (12) months. A new twelve (12) month Contract and fee schedule will be presented for FY 2028. Local governments are under no obligation to continue ETDD planning services beyond the dates specified in this Contract.
- E. In all matters relating to the performance of this Contract, the ETDD Executive Director acts for ETDD, and the Mayor acts for the Contract Community.

The parties execute this Contract through their duly authorized representatives.

**The East Tennessee Development District:**

\_\_\_\_\_  
By: Richard Yakubic  
Executive Director

**For the City of Jefferson City, Tennessee**

By: \_\_\_\_\_  
Honorable Mitch Cain  
Mayor, City of Jefferson City



## OFFICE OF THE CITY MANAGER AGENDA ITEM REPORT

**TO:** Honorable City Council  
**FROM:** James A. Gallup, City Manager  
**DATE:** April 16, 2026  
**SUBJECT:** Downtown Improvement Grant – Administrative Fee Services

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### **BACKGROUND:**

- The City of Jefferson City was awarded the Downtown Improvement Grant from the Tennessee Department of Economic and Community Development in the amount of \$150,000 for up to 10 projects.
- The Grant will be administered by the East Tennessee Development District whose fee shall not exceed \$10,000.
- The attached contract formalizes the responsibilities between ETDD and the City.

### **FISCAL IMPACT:**

- No cost to the city. The grant administration fee is paid via the awarded subgrantees. The City's role is only as the pass-through agency.

### **REQUEST/RECOMMENDATION:**

- Staff recommendation is for approval of the contract.

### **ATTACHMENTS:**

- Grant Administration Contract with East Tennessee Development District

**C O N T R A C T**

**Between**

**The City of Jefferson City**

**And**

**East Tennessee Development District**

THIS CONTRACT, by and between the City of Jefferson City and the East Tennessee Development District, hereinafter referred to as the GRANTEE and ETDD, respectively.

This contract pertains to the provision of the DOWNTOWN IMPROVEMENT GRANT (DIG) grant administration services for the DOWNTOWN FACADE IMPROVEMENT project in accordance with all guidelines of the Tennessee Department of Economic and Community Development (TNECD), hereinafter referred to as THE PROJECT.

WITNESSETH: In consideration of the mutual promises herein contained, the parties have agreed and do hereby enter into this contract according to the provisions set out herein:

- A. ETDD agrees to perform grant administration services as follows:
  - a. Attendance at required conferences, webinars, and training sessions;
  - b. Establish and maintain a record keeping system to include financial record keeping, preparation and submission of all reports (as required), and preparation and submission of requests for reimbursement;
  - c. Review of bid documents for conformance with applicable regulations;
  - d. Supervision of procurement activities relevant to THE PROJECT;
  - e. Submission of obtained records as part of THE PROJECT for successful administration and closeout of THE PROJECT;
  - f. All other work necessary to ensure that the DIG grant funds are being expended in strict compliance with applicable rules and regulations.
  
- B. The GRANTEE agrees to perform the services as follows:
  - a. The GRANTEE shall disburse funds to the contractual parties as invoiced prior to reimbursement by THE STATE, unless otherwise approved by THE STATE;
  - b. The GRANTEE shall be responsible for all aspects of public/customer relations during the course of this project. ETDD may at the request of the GRANTEE provide instruction and assistance in the resolution of matters involving such relations and the guidelines of the DIG program.
  
- C. The GRANTEE agrees to compensate ETDD for the Administration Services for an amount not to exceed \$10,000.00 with payments to be made periodically during the course of the project based on the reimbursement schedule approved by TNECD.
  - a. Please note, this Administration Services fee will be paid by the awarded SUBGRANTEES and the GRANTEE will act as the pass-through entity.

- D. The GRANTEE agrees to provide to ETDD adequate filing space (or other acceptable storage space) for the maintenance of all files relating to THE PROJECT. The GRANTEE further agrees that such filing space or storage space will be accessible to ETDD during the normal business hours of the GRANTEE. The GRANTEE agrees to assume responsibility for the files once the project has been accepted as complete by the TNECD. The GRANTEE acknowledges that it must maintain the files for a period of five years after the project has been completed.

IN WITNESS WHEREOF, the parties have by their duly authorized representatives set their signatures.

ACCEPTED:

ACCEPTED:

\_\_\_\_\_  
Mayor Mitch Cain  
City of Jefferson City

\_\_\_\_\_  
Richard Yakubic  
East Tennessee Development District  
Executive Director

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date