

TITLE 22

STORM WATER

CHAPTER

1. STORM WATER UTILITY.
2. STORMWATER MANAGEMENT.

CHAPTER 1

STORM WATER UTILITY

- 22-101. Definitions.
- 22-102. Legislative findings and policy
- 22-103. Creation of utility and management fund
- 22-104. Funding of stormwater utility
- 22-106. Operating budget
- 22-107. Transfer of assets
- 22-108. Stormwater user's fees established
- 22-109. Legislative findings and policy
- 22-110. Base rate
- 22-111. Payment of stormwater user's fees
- 22-112. Billing procedures, delinquent bills and penalties for late payment
- 22-113. Stormwater fee adjustments and credits

22-101. Definitions.

a) The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this subsection except where the context clearly indicates a different meaning:

Base rate means the stormwater user's fee for a single-family residential unit(s).

Customer means all persons, properties and entities who pay the stormwater user's fee as the owner or tenant of a property within the city.

Construction means the erection, building, acquisition, alteration, reconstruction, improvement or extension of stormwater facilities; preliminary planning to determine the economic and engineering feasibility of stormwater facilities; engineering, architectural, legal, fiscal and economic investigations and studies, surveys, designs, plans, working

drawings, specifications, procedures and other action necessary in the construction of storm water facilities; and the inspection and supervision of the construction of storm water facilities.

Developed land means real property which has been altered from its natural state by the creation or addition of more than four-hundred (400) square feet of impervious surface area by the addition of any buildings, structures, pavement other improvements.

Dwelling or dwelling unit means a building or a portion thereof occupies, or intended to be occupied, for residential purposes.

Fee or stormwater user's fee means the charge established by ordinance and levied on owners or users of parcels or pieces of real property to fund the costs of stormwater management and of operating, maintaining and improving the storm water system in the city. The stormwater user's fees are in addition to any other fee that the city has the right to charge.

Fiscal year means July 1 of a calendar year to June 30 of the next calendar year, both inclusive.

Impervious surface means an impermeable surface which prevents the percolation of water into the soil including, but not limited to, buildings, building foundations, storage tanks, pavement, parking areas and driveways, sidewalks, runways, taxiways, aprons, hardened athletic courts, patios, decks, travel ways, areas of gravel or packed, unvegetated soil, swimming pools, paved areas surrounding swimming pools or any other impermeable surface.

Impervious surface area means the number of square feet of horizontal surface covered by impervious surfaces.

Non-single-family residential property means a parcel of developed land that cannot be classified as a single-family residential property. Non-single-family residential properties include, but are not limited to, commercial properties, industrial properties, public buildings and other structures, storage buildings and storage areas covered with impervious surfaces, parking lots, parks, recreation properties, cemeteries, public and private schools, colleges and universities, churches, research stations, hospitals, healthcare and convalescent centers, airports, agricultural lands covered by impervious surfaces,

water reservoirs, water and wastewater treatment plants, and multiple dwelling unit residential properties that do not meet the definition of single-family residential property.

Property means real property.

Property owner means the person or entity listed as the owner or record in the county's tax assessment roll.

Single-family residential means a parcel of developed land which serves the primary purpose of providing residential housing for single families in individual dwelling units, where individual dwelling units are not located above or below other dwelling units. In single-family residential properties, a dwelling unit occupies the entire space from ground level to rooftop, regardless of the number of stories of the unit. The term "single-family residential property" may include, but is not limited to, single-family residential detached homes, buildings that were originally constructed as single-family homes but were subsequently converted into multiple dwelling units within the original structure, mobile homes and single-family attached homes (duplexes, triplexes, etc.), apartments, condominiums and townhomes provided that individual dwelling units do not have other dwelling units located above or below.

Stormwater means stormwater runoff, snowmelt runoff, surface runoff, street wash waters related to street cleaning or maintenance, infiltration and drainage.

Stormwater facilities or *stormwater flood control facilities* means all natural and manmade conveyances and structures for which the partial or full purpose or use is to convey surface water within the jurisdictional boundaries of the city. This includes all natural conveyances for which the city has assumed a level of maintenance responsibility, to which the city has made improvements, against the flooding of which the city must make provision to protect public and private property, or for which the city is accountable under federal or state regulations for protecting the water quality within its jurisdictional boundaries.

Stormwater management services means the stormwater management programs, maintenance programs, capital improvement programs, facilities and best management practices that are developed

and implemented by the city for the purpose of managing the quality and quantity of stormwater runoff collected and conveyed through the city's stormwater system. Stormwater management services may include, but are not limited to, administration, planning, acquisition, extension, mapping, engineering, design, construction, regulation, improvement, repair, rehabilitation, maintenance, regulation and operation of property, facilities and programs relating to water, drainage, stormwater quality, floodplains, flood control, grading, erosion, conservation, riparian buffers and sediment control.

Stormwater management fund or *fund* means the fund created by this article to operate, maintain, and improve the city's stormwater system.

Stormwater system means a conveyance or system of conveyances (including roads and drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) and stormwater facilities which are designed or used for collecting, controlling, treating or conveying stormwater, or through which stormwater is collected, controlled, treated or conveyed, which is owned or operated by the city.

Surface water includes waters upon the surface of the earth in bounds created naturally or artificially including, but not limited to, streams, other watercourses, lakes and reservoirs.

User means, for developed nonexempt property, the person listed as receiving water service, sewer service or combined water and sewer service of, if there is no such service or person listed, the property owner. It may also mean the property owner of property with multiple water service, sewer service or combined sewer and water service accounts on such property.

b) Words not defined in subsection a) of this section will be construed to have the meaning given by common and ordinary use. (Ord. # 17-5503, Aug. 1, 2017)

22-102. Legislative findings and policy. The city council finds, determines and declares that the city's stormwater system, which provides for the collection, treatment, storage and disposal of stormwater, provides benefits and services to all property within the city limits. Such benefits

include, but are not limited to:

- (1) Improvements to the water quality in the stormwater and surface water system and its receiving waters;
- (2) Improvements in general health and welfare through reduction of undesirable stormwater conditions;
- (3) The reduction of hazards to property and life resulting from stormwater runoff;
- (4) Capital and routine repair and maintenance of local bridges, culverts, etc.; and
- (5) The provision of adequate systems of collection, conveyance, detention, treatment and release of storm water. (Ord. # 17-5503, Aug. 1, 2017)

22-103. Creation of utility and management fund. To achieve the purposes of the federal Clean Water Act and Tennessee Code Annotated § 68-221-110 I *et seq.*, there is created a stormwater utility and a stormwater enterprise fund known as the "Lebanon Stormwater Management Fund" to fund the stormwater utility in and for the city. The stormwater utility, under the general supervision and control of the commissioner of public works, may:

- (1) Enforce regulations to protect and maintain water quality and quantity within the system in compliance with water quality standards established by state, regional and federal agencies;
- (2) Review plans and approve or deny, inspect and accept extensions and connections to the drainage system;
- (3) Administer and enforce this article and all adopted regulations, policies and procedures relating to the design, construction, maintenance, rehabilitation, operation and alteration of the utility stormwater system including, but not limited to, the quantity, quality and velocity of the stormwater conveyed thereby;
- (4) Advise the city council on matters relating to the utility;
- (5) Prepare plans and/ or work orders for drainage crew tasks;

(6) Prepare plans and specifications for public bids;

(7) Administer the acquisition of property for and the administration, design, construction, maintenance and operation of the stormwater utility system, including capital improvements designated in the capital improvement program;

(8) Annually analyze the cost of services and benefits provided, and the system and structure of fees, charges, civil penalties and other revenues of the utility. (Ord. # 17-5503, Aug. 1, 2017)

22-104. Funding of stormwater utility.

a) Revenue sources for the stormwater utility's activities may include, but are not limited to, the following:

- (1) Stormwater user's fees;
- (2) Stormwater permit and inspection fees;
- (3) Civil penalties and damage assessments imposed for or arising from a violation of the current city stormwater management policies and procedures manual, and;
- (4) Other funds or income obtained from federal, state, local, and private grants, or revolving funds, and from the Local Government Public Obligations Act of 1986, Tennessee Code Annotated § 9-21-10 I *et seq.*

b) There shall be no administrative service fee for establishing a new customer to the stormwater utility.

c) The stormwater management fund may earn interest, as part of the overall cash management strategy of the city. Interest earnings will be retained in the stormwater management fund.

d) The city may issue debt for stormwater capital improvements. Such debt may be issued as a general obligation bond for which interest and principal payments are recorded to the stormwater management fund.

e) To the extent that the stormwater user's fees collected are

insufficient to fund the stormwater management program and its components. the cost of the same may be paid from such city funds as may be determined by the city council. (Ord. # 17-5503, Aug. 1, 2017)

22-105. Disposition of revenues into fund. All revenues generated by or on behalf of the stormwater utility will be deposited in the stormwater management fund and used exclusively for the storm water utility. (Ord. # 17-5503, Aug. 1, 2017)

22-106. Operating budget. The city council will adopt an operating budget for the stormwater utility each fiscal year. The operating budget will set forth for such fiscal year the estimated revenues and the estimated costs for the administration, management, acquisition, operations and maintenance, extension and replacement and debt service of the stormwater utility. (Ord. # 17-5503, Aug. 1, 2017)

22-107. Transfer of assets. The stormwater management fund will receive assets (fixed and consumable) as a direct transfer for future accounting and will not reimburse the city's general fund for past purchases. Equipment, supplies, professional services and other consumables will be funded by the stormwater user's fees based on the operating budget. (Ord. # 17-5503, Aug. 1, 2017)

22-108. Stormwater user's fees established. There will be imposed on each and every developed property in the city, except exempt property, stormwater user's fees, which will be set from time to time by ordinance. Prior to establishing or amending the fees, the city will advertise its intent to do so by publishing notice in a newspaper of general circulation in the city at least ten days in advance of the meeting of the city council at which the fees are considered for adoption or amendment.

All with < 400 square feet of Impervious Area = \$0.00 Monthly Fee
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Property Type: Impervious Area (Square Feet)	Month
Tier 1 – Residential: 400 – 1,500	1.50
Tier 2 – Residential: > 1,500	2.50
Tier 3 – Duplexes: (split equally)	2.50
Residential Condo, Townhome, etc. (per unit) (individually metered)	3.50
Property Type: Impervious Area (Square Feet)	Month

Tier 1 – Non-Residential: 400 – 6,000	15.00
Tier 2 – Non-Residential: > 6,000 – 15,000	25.00
Tier 3 – Non-Residential: >15,000 – 35,000	35.00
Tier 4 – Non-Residential: > 35,000 – 60,000	50.00
Tier 5 – Non-Residential: > 60,000 – 100,000	75.00
Tier 6 – Non-Residential: > 100,000 – 300,000	200.00
Tier 7 – Non-Residential: > 300,000 – 1,000,000	400.00
Tier 8 – Non-Residential: > 1,000,000	600.00

(Ord. # 17-5503, Aug. 1, 2017)

22-109. Legislative findings and policy. All property in the city and the applicable stormwater user's fee is classified into one of the following:

(1) *Non-exempt property.* Includes residential, commercial, industrial, etc., properties as described in the rate schedule provided in Section VIII.

(2) *Exempt property.* The following property is exempt from the stormwater user's fee:

a. Undeveloped property that is not altered from its natural state.

b. Agricultural property upon which the owner or operator conducts activities that satisfy the requirements of a qualified farms or nurseryman under Tennessee Code Annotated § 67- 6-207(e). The owner or operator to shall bear the burden of establishing such exempt status.

c. Developed property with less than 400 total square feet of impervious surface area per individual parcel.

d. Property that does not discharge stormwater into or through the city's stormwater system or does not discharge into the surface water system located within the city.

e. Improved public transportation ways, including public streets and roads, which have been dedicated or conveyed to the city and are used by the general public for motor vehicle transportation.

f. Railroad tracks; provided, however, railroad stations, maintenance buildings or other developed land are not to be exempt. (Ord. # 17-5503, Aug. 1, 2017)

22-110. Base rate. The city council will by ordinance establish the base rate(s) for stormwater user's fees. The base rate will be calculated to ensure adequate revenues to fund the costs of stormwater management and to provide for the acquisition, operation, maintenance, rehabilitation and capital improvements of the stormwater utility in the city. (Ord. # 17-5503, Aug. 1, 2017)

22-111. Payment of stormwater user's fees.

a) Except as otherwise provided in this section, stormwater user's fees for each nonexempt property that receives water service, sewer service, solid waste service, or any combination of water, sewer and solid waste service, will be sent to the person named on the account, who shall be responsible for the payment of such fees. For developed property having no water service, sewer service or solid waste service of any combination of water, sewer and solid waste service, the stormwater user's fee will be sent to the property owner, who shall be responsible for the payment of such fees. Where multiple water, sewer or solid waste service, or any combination of multiple water, sewer or solid waste service, accounts exist on a single property, the city will follow current practices used for billing of water, sewer and solid waste fees. The stormwater user's fees may, for good cause shown at the discretion of the city, be sent to the property owner, who shall be responsible for the payment of such fees, or the stormwater user's fees may, for good cause shown at the discretion of the city, be sent to the persons named on the accounts, who shall be responsible for payment of such fees.

b) In the event of the transfer of ownership of a nonexempt property, responsibility for payment of the stormwater user's fee for the property will transfer to the person named on the account or the property owner, whichever is appropriate in accordance with subsection a) above, at the time that the account for water, sewer service or solid waste services is transferred. For developed property having no water service, sewer service or solid waste service or any combination of water, sewer and solid waste service, transfer of responsibility for the stormwater user's fee must be requested in writing. (Ord. # 17-5503, Aug. 1, 2017)

22-112. Billing procedures, delinquent bills and penalties for late

payment.

a) The stormwater user's fee will be billed to customers on a monthly basis, in accordance with the routine schedule of billing used by the city for water, sewer and/ or solid waste services.

b) Payments received shall be applied in the following order as appropriate for the services included on the bill: stormwater user's fee, solid waste fee, sewer service and water service. Failure to pay the entire amount on the bill can result in delinquency, late fees and eventual disconnection of water service.

c) Stormwater user's fees will be paid to the city as directed. If such fees are not paid on or before 14 days after the billing date or the delinquent date designated on the bill, an additional charge of ten percent of the bill will become due and payable and will become a part of the bill.

d) Should the final date for payment of a bill without penalty fall on a Sunday or a holiday, the business day next following the final date will be the last day to pay without a penalty. A remittance without the penalty received by mail more than 14 days after the billing date will be accepted by the city if the envelope is date-stamped on or before the 14th day after the billing date.

e) Any charge due under this article, or under an ordinance setting such charge or fee, which is not paid may be recovered at law by the city. The city will be entitled to recover attorney's fees incurred in collecting delinquent stormwater user's fees or charges.

f) As required by Tennessee Code Annotated § 68-221-1112, each bill for stormwater user's fees will contain the following statement in bold: "THIS FEE HAS BEEN MANDATED BY CONGRESS." (Ord. # 17-5503, Aug. 1, 2017)

22-113. Stormwater fee adjustments and credits.

a) Adjustments may be requested for errors or omissions in the calculation of a customer's storm water user's fee. A request for adjustment due to error or oversight in the calculation of the fee must be submitted to the city in accordance with city policy. Adjustments may also be made by the finance director should the city identify an error or oversight, provided the city

notifies the customer in advance of the adjustment. Adjustments will be determined on the basis of the property classification, as set forth in this article, or the amount of impervious surface area on the property. The definition of impervious surface cannot serve as the basis for an adjustment.

b) The city will provide a system of credits to reduce stormwater user's fees for non-single family residential properties on which stormwater control measures substantially decrease the city's cost of maintaining the stormwater management system. Approved credits will be applied in the utility billing system as a reduction in the stormwater user's fee for the property that is approved to receive the credit. Credits cannot exceed the stormwater utility charge for the customer. The commissioner of public works will develop written policies for the credit system which will include the following:

(1) It will be the responsibility of the person who is obligated for payment of the stormwater user's fee to apply for a credit in writing, to demonstrate that the property meets the requirements for the allowable credit and to maintain the property's eligibility for any approved credit.

(2) An approved credit will not be applied retroactively.

(3) Properties with approved credits will be evaluated periodically by the city to determine if the property remains eligible for the credit. *This* evaluation may include inspection of the stormwater control measures and the submission by the applicant of information concerning those measures.

(4) An approved credit will be discontinued upon transfer or ownership of the property, or if the city determines that the property no longer qualifies for the credit. The city will advise the user in writing at least thirty (30) days prior to removal of the credit. (Ord. # 17-5503, Aug. 1, 2017)

CHAPTER 2

STORMWATER MANAGEMENT

SECTION

- 22-201. General provisions.
- 22-202. Definitions.
- 22-203. Construction Stormwater Management
- 22-204. Permanent stormwater management: design and construction inspection.
- 22-205. Permanent Stormwater Control Measure (SCM) maintenance and inspection.
- 22-206. Permanent SCM's: new development, existing locations and ongoing developments.
- 22-207. Illicit discharges.
- 22-208. Enforcement
- 22-209. Penalties.
- 22-210. Appeals.

22-201 General provisions

- (1) Purpose. It is the purpose of this chapter to:
 - a. Protect, maintain, and enhance the environment of the City of Lebanon and the public health, safety and the general welfare of the citizens of the City of Lebanon, by controlling discharges of pollutants to the City of Lebanon'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 of Lebanon;
 - b. Enable the City of Lebanon 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 Lebanon 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 of Lebanon, 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 of Lebanon Engineering and Stormwater Departments 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 tool for permit compliance and to facilitate the necessary control of stormwater. (Ord. #24-7058, August 2024)

22-202. 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 Lebanon 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 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. The Design Storm Events for the City of Lebanon are as follows: 1-yr, 2-yr, 5-yr, 10-yr, 25-yr, 50-yr, and 100-yr.
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** means 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 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 of 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)).

(Ord. #24-7058, August 2024)

22-203. Construction Stormwater Management

1. MS4 Stormwater Construction BMP Manual.

- a. Adoption. The City of Lebanon 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. City of Lebanon Stormwater Management Policies and Procedures Manual; most current edition.
 - ii. TDEC Erosion Prevention and Sediment Control Handbook; most current edition.
 - iii. The Nashville-Davidson County Metro Stormwater Management Manual (Low Impact Development (LID Manual – Volume 5); most current edition.
 - iv. The Nashville-Davidson County Metro Stormwater Management Manual (Best Management Practices (BMP Manual – Volume 4); most current edition.
 - v. Tennessee Permanent Stormwater Management and Design Guidance Manual – First Edition, December 2014.

Whenever there is a conflict between any standard contained in the chapter and in the BMP manual(s) adopted by the City of Lebanon under this ordinance, the strictest standard shall prevail.

- b. The City of Lebanon 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: 1-yr, 2-yr, 5-yr, 10-yr, 25-yr, 50-yr, and 100-yr storm events.
 - 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 wastes, 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 Disturbance 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 Lebanon 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 of Lebanon 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 of Lebanon.
 - 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 City Floodway Zoning Districts 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 of Lebanon.
 - ix. If unpermitted construction activity is on-going, the City of Lebanon will issue and immediate stop-work order. If, in addition to the City of Lebanon's permit, a TDEC permit was required but was not obtained, the violator will also be reported to TDEC.

6. Land Disturbance 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 of Lebanon 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 of Lebanon may still require a SWPPP as part of the Land Disturbance Permit application.
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 of Lebanon.
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 stabilization measures shall be initiated within 7 days.
 - c. Construction buffer zones. Construction buffer zones shall be those water quality buffers and buffer zones as defined in 22-202 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. 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.

- d. 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 of Lebanon 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 of Lebanon is required before any performance security or performance bond will be released. The City of Lebanon 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 of Lebanon. No bonds or securities shall be released by the City until the City of Lebanon Engineering Department has accepted the as built plans. The warranty period for any infrastructure to be accepted by the City of Lebanon for maintenance shall not commence until the City of Lebanon 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 of Lebanon passes any specified manufacturer startup procedure. The warranty period shall not commence prior to the equipment passing any specified manufacturer startup procedure.
(Ord. #24-7058, August 2024)

22-204. Permanent stormwater management: design and construction inspection.

- (1) In order to comply with the City of Lebanon'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. The designer may select from the most appropriate alternatives listed in the City of Lebanon's adopted BMP Manual(s).

(3) Designs shall be based on the 24-hour design storm adopted by the City of Lebanon:

The City of Lebanon has adopted, for use in designing water quality SCMs, the design storm requirements as established in Tennessee Rule 0400-40-10-.04. The Post Construction/Permanent water quality design storm is a 1-year, 24 storm event for water quality SCMs. See definition of Design Storm Event for the municipality's rainfall amounts for each return period interval. The below numbers shall be used when modeling the 1-through 100-yr storm events, where applicable (Appendix A).

- 1-year: 3.04"
- 2-year: 3.63"
- 5-year: 4.42"
- 10-year: 5.07"
- 25-year: 5.96"
- 50-year: 6.68"
- 100-year: 7.44"

(1) Water Quality Riparian Buffers. Post Construction/Permanent water quality riparian buffers shall be those buffers defined in 22-202 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 and/or streams or other drainage areas greater than 1 square mile:

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

Post Construction/Permanent buffers for wet weather convenances:

- a. Minimum buffer width: 15 feet unless otherwise approved by City of Lebanon Engineering Department.

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

(Ord. #24-7058, August 2024)

22-205. 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 the City of Lebanon is required before any performance security or performance bond will be released. The City of Lebanon 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 of Lebanon.
- (2) In addition to the certified as built drawings, the City of Lebanon 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 of Lebanon.
- (3) Inspection of stormwater management facilities. Periodic inspections of facilities shall be performed, documented, and reported in accordance with this chapter, as detailed in §22-206.
- (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 of Lebanon 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 of Lebanon, 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 of Lebanon 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 of Lebanon may take necessary corrective action. The cost of any action by the City of Lebanon 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 of Lebanon may take such immediate corrective action as deemed necessary.

(Ord. #24-7058, August 2024)

22-206. Permanent SCM's: new development, existing locations, and ongoing developments.

(1) On-site stormwater management facilities inspection and maintenance agreement

- 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 of Lebanon who will submit a signed written report of the inspection to the City of Lebanon. It shall also grant permission to the City of Lebanon 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 of Lebanon.
- e. Provide that if the property is not maintained or repaired within the prescribed schedule, the City of Lebanon 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 of Lebanon's cost of performing the maintenance shall be a lien against the property.

(2) Existing problem locations – no maintenance agreement

- a. The City of Lebanon 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 of Lebanon 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 of Lebanon'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 of Lebanon 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 of Lebanon. 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 of Lebanon may require submittal of this documentation.

(4) Requirements for all existing locations and ongoing developments. The following requirements shall 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 of Lebanon.
- 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.
- e. Stormwater runoff shall, at the discretion of the City of Lebanon 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 of Lebanon under this section are subject to appeal under section 22-210 of this chapter.

(Ord. #24-7058, August 2024)

22-207. Illicit discharges.

This section shall apply to all water generated on developed or undeveloped land entering the City of Lebanon'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 22-206. 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 of Lebanon 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 of Lebanon 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 of Lebanon 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 of Lebanon. 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.

(Ord. #24-7058, August 2024)

22-208. Enforcement.

- (1) **Enforcement authority.** The City of Lebanon 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 of Lebanon, The City of Lebanon'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 of Lebanon 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 of Lebanon'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 of Lebanon may also use other escalated measures provided under local legal authorities. The City of Lebanon 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 of Lebanon 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 of Lebanon 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 of Lebanon. 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 of Lebanon 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 of Lebanon 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 of Lebanon 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 of Lebanon 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 of Lebanon 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 of Lebanon. 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 of Lebanon 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 of Lebanon under this ordinance, the strictest standard shall prevail.

(Ord. #24-7058, August 2024)

****22-209. 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 City of Lebanon, shall be guilty of a civil offense.
- (2) **Penalties.** Under the authority provided in Tennessee Code Annotated § 68-221-1106, the City of Lebanon declares that any person violating the provisions of this chapter may be assessed a civil penalty by the City of Lebanon 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.
- (3) **Measuring civil penalties.** In assessing a civil penalty, the City of Lebanon 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 of Lebanon; 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.
- (4) **Recovery of damages and costs.** In addition to the civil penalty in subsection (2) above, the City of Lebanon may recover:
- (a) All damages proximately caused by the violator to the City of Lebanon, 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 of Lebanon's maintenance of stormwater facilities when the user of such facilities fails to maintain them as required by this chapter.
- (5) **Referral to TDEC.** In accordance with the City of Lebanon's Enforcement Response Plan and the NPDES Permit requirements, the City of Lebanon may also notify TDEC of violations.
- (6) **Other remedies.** The City of Lebanon 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.

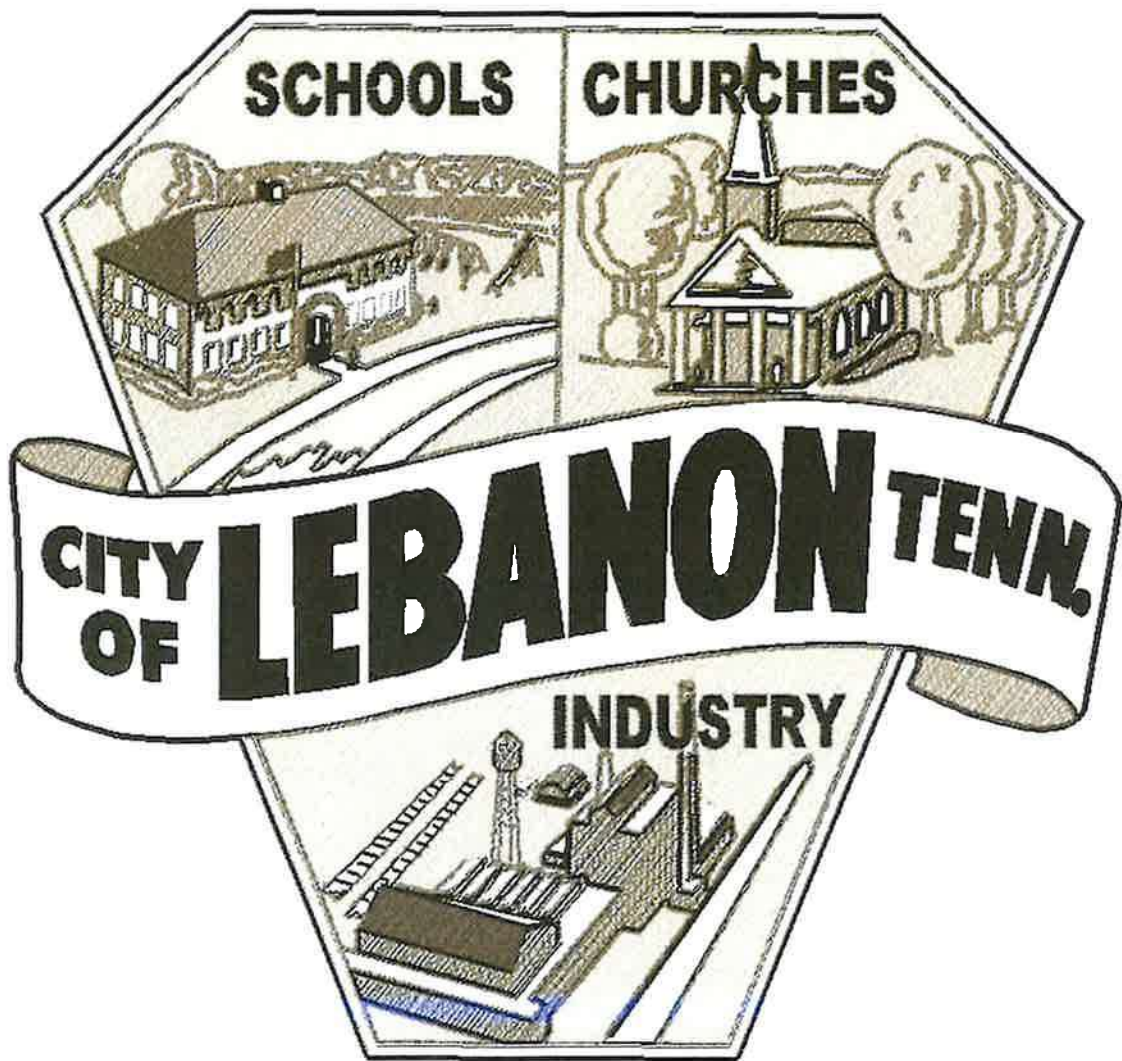
(Ord. #24-7058, August 2024)

22-210. 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 of Lebanon'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 of Lebanon governing body, or other appeals board established by the City of Lebanon 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 of Lebanon shall be final.
- (3) **Appealing decisions of the City of Lebanon's governing body.** Any alleged violator may appeal a decision of the City of Lebanon's governing body pursuant to the provisions of Tennessee Code Annotated, title 27, chapter 8.

(Ord. #24-7058, August 2024)

APPENDIX A:
CITY OF LEBANON STORMWATER MANAGEMENT POLICIES AND PROCEDURES
MANUAL



**CITY OF LEBANON
STORMWATER MANAGEMENT
POLICIES AND PROCEDURES
MANUAL**

November 19, 2012

TABLE OF CONTENTS

	<u>PAGE</u>
Section 1. General Provisions	5
(1) Purpose	5
(2) Administering entity	6
(3) Stormwater Management Ordinance	6
Section 2. Definitions	8
Section 3. Land Disturbance Permits	12
(1) When required	12
(2) Building permit	13
(3) Exemptions	13
(4) Application for a land disturbance permit	13
(5) Review and approval of application	14
(6) Permit duration	15
(7) Notice of construction	15
(8) Performance security	15
Section 4. Waivers	16
(1) General	16
(2) Downstream damage, etc. prohibited	17
(3) Grading permit not to be issued where alternatives requested	17
Section 5. Stormwater System Design: Construction and Permanent Stormwater Management	17
(1) MS4 Stormwater design or BMP manuals	17
(2) Land development	18
(3) Submittal of a copy of the NOC, SWPPP and NOT to the local MS4	18
(4) Stormwater Pollution Prevention Plan (SWPPP) for Construction Stormwater Management	19
(5) Stormwater Pollution Prevention Plan requirements	19
(6) General design performance criteria for permanent stormwater Management	21
(7) Minimum volume control requirements (detention).....	23
(8) Permanent Stormwater management plan requirements	24
(9) Maintenance and Repair Plan	25
(10) Buffer Zone Requirements	25
Section 6. Permanent Stormwater Management: Operation,	

Maintenance, and Inspection	27
(1) As-built plans	27
(2) Landscaping and stabilization requirements	28
(3) Inspection of stormwater management facilities	29
(4) Records of installation and maintenance activities	29
(5) Failure to meet or maintain design or maintenance standards	29
Section 7. Existing Locations and Ongoing Developments	29
(1) On-site stormwater management facilities maintenance agreement	29
(2) Existing problem locations – no maintenance agreement	30
(3) Owner/Operator Inspections – generally	31
(4) Requirements for all existing locations and ongoing developments	31
(5) Corrections of problems subject to appeal	32
Section 8. Illicit Discharges	32
(1) Scope	32
(2) Prohibition of illicit discharges	32
(3) Prohibition of illicit connections	33
(4) Reduction of stormwater pollutants by the use of BMP's	33
(5) Notification of spills	34
(6) No illegal dumping allowed	34
Section 9. Enforcement	34
(1) Enforcement Authority	34
(2) Notification of Violation	35
Section 10. Penalties	36
(1) Violations	36
(2) Penalties	37
(3) Measuring Civil Penalties	37
(4) Recovery of Damages and Costs	37
(5) Referral to TDEC	37
(6) Other remedies	37
(7) Remedies cumulative	38
Section 11. Appeals	38
(1) Appeals to be in writing	38
(2) Public hearing	38
(3) Appealing decisions of the city's governing body	38

Appendices

Appendix A: Stormwater As-Built Requirements

Appendix B: Enforcement Response Plan (ERP)

Appendix C: Inspection and Maintenance Agreement for Private Stormwater Management Facilities

STORMWATER MANAGEMENT ORDINANCE

Section 1. General provisions.

- (1) Purpose. It is the purpose of this ordinance to:
- (a) Protect, maintain, and enhance the environment of the City of Lebanon 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) 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;
 - (c) Enable the city to comply with the National Pollution Discharge Elimination System permit (NPDES) and applicable regulations, 40 CFR 122.26 for stormwater discharges;
 - (d) Allow the City of Lebanon 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 Engineer shall administer the provisions of this ordinance.

(3) **Right of Entry:** The City Engineer shall make inspections and investigations, carry on research or take on such other actions as may be necessary to carry out this administration of regulations; enter at all reasonable times upon any property other than dwelling places for the purpose of conducting investigations and studies or enforcing any of the provisions of this ordinance, pursuant to TCA 69-3-107 (5) and (6).

Section 2. 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) “As built plans” means drawings depicting conditions as they were actually constructed.

(2) “Best Management Practices” (“BMP’s”) means physical, structural, and/or managerial practices that, when used singly or in combination, prevent or reduce pollution of water, that have been approved by the city engineer, and that have been incorporated by reference into this ordinance as if fully set out therein.

(3) “Blue Line Stream” is any stream, creek, lake, pond, or other body of water shown as a blue line on a 7.5 minute USGS quadrangle map. Please note, streams do not have to be “blue line streams” to be considered waters of the state.

(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) “Brownfield” means real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.

- (6) "Buffer Zone" means a setback from the top of a 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 from non point source pollutants, including eroded soils.
- (7) "Channel" means a natural or artificial watercourse with a definite bed and banks that conducts flowing water continuously or periodically.
- (8) "City Engineer" is the person hired by the City of Lebanon to oversee the general engineering activities of the city and shall include his designated representative(s).
- (9) "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.
- (10) "Contaminant" means any physical, chemical, biological, or radiological substance or matter in water.
- (11) "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 24-hour depths or intensities for any duration, can be found by accessing the following NOAA National Weather Service Atlas 14 data for Tennessee: http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=tn. Other data sources may be acceptable with prior written approval by TDEC Water Pollution Control.
- (12) "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.

- (13) "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.
- (14) "Enforcement Response Plan (ERP)" is a matrix of enforcement actions to be taken for noncompliance incidents.
- (15) "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.
- (16) "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.
- (17) "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
- (18) "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.
- (19) "Illicit discharge" means any discharge to the municipal separate storm sewer system that is not composed entirely of stormwater and not specifically exempted under §8(2).
- (20) "Impaired Waters" means any segment of surface waters that has been identified by the division as failing to support classified uses. The division periodically compiles a list of such waters know as the 303(d) list.

- (21) "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).
- (22) "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.
- (23) "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.
- (24) "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.
- (25) "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.
- (26) "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.
- (27) "National Pollutant Discharge Elimination System permit" or a "NPDES permit" means a permit issued pursuant to 33 U.S.C. 1342.
- (28) "Off-site facility" means a structural BMP located outside the subject property boundary described in the permit application for land development activity.

- (29) "On-site facility" means a structural BMP located within the subject property boundary described in the permit application for land development activity.
- (30) "Peak flow" means the maximum instantaneous rate of flow of water at a particular point resulting from a storm event.
- (31) "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.
- (32) "Priority construction sites" are those sites adjacent to waters of the state listed on the 303d list or those that have been classified as exceptional water quality.
- (33) "Quality Assurance Site Assessment" is a documented site inspection to verify the functionality and performance of the SWPPP and for determining if construction, operation and maintenance accurately comply with permit requirements as presented. The site assessment shall be performed by a licensed professional engineer or landscape architect, a Certified Professional in Erosion and Sediment Control (CPESC) or a person that successfully completed the "Level II Design Principles for Erosion Preventions and Sediment Control for Construction Sites" course.
- (34) "Redevelopment" means the alteration of developed land that disturbs one acre or more, or less than an acre if part of a larger common plan of development, and increases the site or building impervious footprint, or offers a new opportunity for stormwater controls. The term is not intended to include activities as exterior remodeling, which would not be expected to cause adverse stormwater quality impacts.
- (35) "Runoff" means that portion of the precipitation on a drainage area that is discharged from the area into the municipal separate storm sewer system.
- (36) "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.
- (37) "Sedimentation" means soil particles suspended in stormwater that can settle in stream beds.
- (38) "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.

- (39) "Stabilization" means providing adequate measures, vegetative and/or structural, that will prevent erosion from occurring.
- (40) "Stormwater" means stormwater runoff, snow melt runoff, surface runoff, street wash waters related to street cleaning or maintenance, infiltration and drainage.
- (41) "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.
- (42) "Stormwater management" means the programs to maintain quality and quantity of stormwater runoff to pre-development levels.
- (43) "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.
- (44) "Stormwater management plan" means the set of drawings and other documents that comprise all the information and specifications for the programs, drainage systems, structures, BMP's, concepts and techniques intended to maintain or restore quality and quantity of stormwater runoff to pre-development levels.
- (45) "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.
- (46) "Stormwater runoff" means flow on the surface of the ground, resulting from precipitation.
- (47) "Structural BMP's" means facilities that are constructed to provide control of stormwater runoff.
- (48) "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.

- (49) "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.
- (50) "Water Quality Buffer" see "Buffer".
- (51) "Watercourse" means a permanent or intermittent stream or other body of water, either natural or man-made, which gathers or carries surface water.
- (52) "Watershed" means all the land area that contributes runoff to a particular point along a waterway.
- (53) "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.
- (54) "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.
- (55) "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 months. (Rules and Regulations of the State of Tennessee, Chapter 1200-4-3-.04(3)).

Section 3. Land Disturbance Permits.

(1) **When Required.**

- (a) Every person will be required to obtain a land disturbance permit from the City Engineer in the following cases:
- (1) Land disturbing activity disturbs one (1) or more acres of land;
 - (2) Land disturbing activity of less than one (1) acre of land if such activity is part of a larger common plan of development that affects one (1) or more acres of land;

- (3) Land disturbing activity of less than one (1) acre of land, if in the discretion of the City of Lebanon such activity poses a unique threat to water, or public health or safety;
 - (4) Land disturbing activity of less than one (1) acre of land, for projects or developments if:
 - i. The City Engineer has determined that the stormwater discharge from a site is causing, contributing to or is likely to contribute to a violation of a stormwater quality violation.
 - ii. The City Engineer has determined that a 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 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 City Engineer to be a hot spot land use.
 - (5) The creation and use of borrow pits where material is excavated and relocated offsite.
 - (6) Fills sites where materials or earth is deposited by mechanized methods resulting in an increase in elevation or grade.
- (2) Building Permit. No building permit shall be issued until the applicant has obtained a land disturbance permit where the same is required by this ordinance.
- (3) Exemptions. The following activities are exempt from the permit requirement:
- (a) Any emergency activity that is immediately necessary for the protection of life, property or natural resource.
 - (b) Existing nursery and agricultural operations conducted as permitted main or accessory use.
 - (c) Any logging or agricultural activity that is consistent with an approved farm conservation plan or a timber management plan prepared or approved by the appropriate federal or state agency.
 - (d) Additions or modifications to existing single family structures.
- (4) Application for a land disturbance permit.

- (a) Each application shall include the following:
- (1) Name of applicant;
 - (2) Business or residence address of applicant;
 - (3) Name, address and telephone number of the owner of the property of record in the office of the assessor of property;
 - (4) Address and legal description of subject property including the tax reference number and parcel number of the subject property;
 - (5) Name, address and telephone number of the contractor and any subcontractor(s) who shall perform the land disturbing activity and who shall implement the erosion and sediment control plan;
 - (6) A statement indicating the nature, extent and purpose of the land disturbing activity including the size of the area for which the permit shall be applicable and a schedule for the starting and completion dates of the land disturbing activity.
 - (7) Where the property includes a sinkhole, the applicant shall obtain from the Tennessee Department of Environment and Conservation appropriate permits.
 - (8) The applicant shall obtain from any other state or federal agency any other appropriate environmental permits that pertain to the property. However, the inclusion of those permits in the application shall not foreclose the City of Lebanon from imposing additional development requirements and conditions, commensurate with this ordinance, on the development of property covered by those permits.

(b) Each application shall be accompanied by:

- (1) A sediment and erosion control plan as described in §5
- (2) A stormwater management plan as describe in §5, providing for stormwater management during the land disturbing activity and after the activity has been completed.
- (3) Each application for a land disturbance permit shall be accompanied by payment of land disturbance permit and other stormwater management fees, which shall be set by resolution or ordinance.

(5) Review and approval of application.

- (a) The City Engineer will review each application for a land disturbance permit to determine its conformance with the provisions of this ordinance. The city shall provide one of the following responses in writing:
- (1) Approval of the permit application;

(2) Approval of the permit application, subject to such reasonable conditions as may be necessary to secure substantially the objectives of this ordinance, and issue the permit subject to these conditions; or

(3) Denial of the permit application, indicating the reason(s) for the denial.

(b) If the city engineer has granted conditional approval of the permit, the applicant shall submit a revised plan that conforms to the conditions established by the city engineer. However, the applicant shall be allowed to proceed with his land disturbing activity so long as it conforms to conditions established by the city engineer.

(c) No development plans will be released until the land disturbance permit has been approved.

(6) Permit duration.

Every land disturbance permit shall expire and become null and void if substantial work (twenty-five percent {25%}) authorized by such permit has not commenced within one hundred eighty (180) calendar days of issuance, or is not complete within eighteen (18) months from the date of the commencement of construction. Should the land disturbance permit expire, the approval process must be repeated as well as all applicable fees paid if the owner/developer wishes to proceed with construction. Extensions shall be applied for thirty (30) calendar days prior to the end of the 18 month permit period.

(7) Notice of construction.

The applicant must notify the city engineer ten (10) working days in advance of the commencement of construction. Regular inspections of the stormwater management system construction shall be conducted by the city engineer.

(8) Performance security.

(a) The city engineer may, at its discretion, require the submittal of a performance security prior to issuance of a permit in order to ensure that the stormwater practices are installed by the permit holder as required by the approved stormwater management plan. The amount of the installation performance security shall be the total estimated construction cost of the structural BMPs approved under the permit plus any reasonably foreseeable additional related costs, e.g., for damages or enforcement. [Or plus a certain percentage of the total estimated costs.] The performance security shall contain forfeiture provisions for failure to complete work specified in the stormwater management plan. The

applicant shall provide an itemized construction cost estimate complete with unit prices which shall be subject to acceptance, amendment or rejection by the city engineer. Alternatively, the city engineer shall have the right to calculate the cost of construction cost estimates.

- (b) A performance security will be required prior to the release of the Certificate of Occupancy for any incomplete site improvements if one has not been previously posted. The only time that posting of a performance security will be accepted over completing the project, is in the case of inclement weather which has made site work difficult to finish. The amount of the performance security shall be the total estimated construction cost of all incomplete items plus 10%. The applicant shall provide an itemized construction cost estimate complete with unit prices which shall be subject to acceptance, amendment or rejection by the city engineer. Alternatively, the city engineer shall have the right to calculate the cost of construction cost estimates.
- (c) Acceptable forms of a performance security are Letters of Credit in the City's required format or cash.
- (d) The performance security shall be released in full only upon submission of as-built plans and written certification by a registered professional engineer licensed to practice in Tennessee that the structural BMP has been installed in accordance with the approved plan and other applicable provisions of this ordinance. The city engineer will make a final inspection of the structural BMP to ensure that it is in compliance with the approved plan and the provisions of this ordinance. Provisions for a partial pro-rata release of the performance security based on the completion of various development stages can be made at the discretion of the city engineer.

Section 4. Waivers.

- (1) **General.** No waivers will be granted to 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 72 hours of no measurable precipitation. This first inch of rainfall must be 100% managed with no discharge to surface waters.

- (2) Downstream damage, etc. prohibited. In order to receive consideration, the applicant must demonstrate to the satisfaction of the City Engineer 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.

Section 5. 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 (LOW IMPACT DEVELOPMENT (LID) MANUAL -Volume 5); most current edition.
 - (iii) The Nashville-Davidson County Metro Stormwater Management Manual (BEST MANAGEMENT PRACTICES (BMP) MANUAL - Volume 4); most current edition.
 - (iv) A collection of MS4 approved BMP's 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 BMP's including the specific design performance criteria and operation and maintenance requirements for each stormwater practice. These include city approved BMP's for permanent stormwater management including green infrastructure BMP's.
 - (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 City Engineer, 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 or more of the following criteria:

- (a) One (1) acre or more;
- (1) New development that involves land development activities of one (1) acre or more;
 - (2) Redevelopment that involves other land development activity of one (1) acre or more;
- (b) Projects or developments of less than one acre of total land disturbance may also be required to obtain authorization under this ordinance if:
- (1) the City of Lebanon 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;
 - (2) the City of Lebanon has determined that the stormwater discharge is, or is likely to be a significant contributor of pollutants to waters of the state;
 - (3) 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;
 - (4) Any new development or redevelopment, regardless of size, that is defined by the City of Lebanon to be a hotspot land use;
- or
- (5) Minimum applicability criteria set forth in item (a) above if such activities are part of a larger common plan of development, even multiple, which 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 (TDEC) Rules, Chapter 1200-4-6.

- (3) **Submittal of a copy of the NOC, SWPPP and NOT to the City Engineer**
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 City Engineer. 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 TDEC's DataViewer 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 (8) 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 most current TDEC Erosion Prevention and Sediment Control Handbook, 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 (5) feet 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 stormwater 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 BMP's.
- (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.
 - (s) The plan shall include detailed drawings of all structural and non-structural controls and stabilization measures which shall be designed to minimize erosion and maximize sediment removal resulting in storm water discharge associated with the two (2) year, twenty-four (24) hour design storm event as a minimum, either from total rainfall in the designated period or the equivalent intensity as specified on the following website
http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=tn These specific details for constructing stabilized construction entrance/exits, concrete washouts, sediment basins for controlling erosion, and road access points should be designed to eliminate or keep soils, sediment and/or debris to a minimum.
 - (t) When land disturbance activities are proposed along 303(d) listed streams impaired for siltation or know high quality waterways, the erosion and sediment control plan shall be designed at a minimum to control the discharge of a five (5) year, twenty-four (24) hour storm event along with other additional minimum standards outlined in the current Tennessee Construction General Permit (CGP).
- (6) General design performance criteria for permanent stormwater management (Items a-g Effective 6/8/2015): 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 72 hours of no measurable precipitation. This first inch of rainfall must be 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 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 50% of the standard in the paragraph above is possible for a project that meets all 5 criteria:
 - i. Redevelopment;
 - ii. Brownfield redevelopment;
 - iii. (iii)High density (>7 units per acre);
 - iv. (iv)Vertical Density, (Floor to Area Ratio (FAR) of 2 or >18 units per acre); and
 - v. Mixed use and Transit Oriented Development (within ½ mile of transit).
- (e) For projects that cannot meet 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 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 100% of the runoff reduction requirements, the City Engineer may allow runoff reduction measures to be implemented at another location within the same USGS 12-digit hydrologic unit code (HUC) as the original project. Off-site mitigation must be a minimum of 1.5 times the amount of water not managed on site. The off-site mitigation location (or alternative location outside the 12-digit HUC) and runoff reduction measures must be approved by the City Engineer. The City Engineer shall identify priority areas within the watershed in which mitigation projects can be completed. The City Engineer 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) For projects that cannot meet 100% of the runoff reduction and pollutant removal standards, and cannot provide for off-site mitigation, the City of Lebanon may allow the owner to make payment in a public stormwater project fund established by the City of Lebanon. Payment into the public stormwater fund must be at a minimum 1.5 times the estimated cost of on-site reduction controls.
- (h) To protect stream channels from degradation, specific channel protection criteria shall be provided as prescribed in the most current TDEC Erosion Prevention and Sediment Control Handbook.

- (i) 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.
 - (j) Stormwater discharges from hot spots may require the application of specific structural BMP's and pollution prevention practices. In addition, stormwater from a hot spot land use may not be infiltrated.
 - (k) Prior to or during the site design process, applicants for land disturbance permits shall consult with the City Engineer to determine if they are subject to additional stormwater design requirements.
- (7) Minimum volume control requirements (Detention). In accordance with §1(1)(c)(iii) the City Engineer may establish standards to regulate the quantity of stormwater discharged. Therefore, a stormwater detention system is required for all subdivision and site development projects unless otherwise approved in writing by the City of Lebanon Commissioner of Public Works or authorized agent. The detention system must meet the following requirements:
- (a) Stormwater designs shall meet the multi-stage storm frequency storage requirements to control peak flows of stormwater discharge associated with the One (1) year, two (2) year, five (5) year, ten (10) year and twenty-five (25) year NRCS Type II twenty-four (24) hour design storm frequency as follows: 1-year through the 25-year post-development stormwater runoff discharge rate must be equal to or less than 1-year through 25-year pre-development stormwater runoff discharge rate.
 - (b) The outlet structure shall be designed to detain the excess runoff difference between the pre-development and post-development flows, through the 25-year storm as required in item (a). The storm water runoff for the 2-year, 5-year, 10-year, 25-year, 50 and 100-year storm shall be routed through the stormwater detention basin.
 - (c) If the calculated runoff for the 50-year or 100-year storm overtops the basin, then an emergency overflow weir shall be provided with the outlet from this weir being designed to prohibit erosion of the basin wall.
 - (d) A minimum of one foot (1') of freeboard is desirable.
 - (e) Detentions systems must be constructed during the initial phase of the development as applicable to the phase being developed.
 - (f) When deemed appropriate and approved by the City of Lebanon Commissioner of Public Works or authorized agent, offsite or downstream improvements may be made in lieu of onsite detention.
 - (g) If hydrologic or topographic conditions warrant greater control than that provided by the minimum control requirements, the City

Engineer may impose any and all additional requirements deemed necessary to control the volume, timing, and rate of runoff.

- (h) Pervious areas should be utilized for stormwater treatment and to infiltrate stormwater runoff from sidewalks, driveways, parking lots, rooftops and landscaped areas to the maximum extent practical. These practices provide treatment for both water quality and quantity

- (8) **Permanent Stormwater management plan requirements.** The stormwater management plan shall include sufficient information to allow the City Engineer 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 100 feet 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 BMP's;
- (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 §5(7). These calculations must show that the proposed stormwater management measures are capable of controlling runoff from the site in compliance with this ordinance. Such calculations shall include:
 - v. A description of the design storm frequency, duration, and intensity where applicable;
 - vi. Time of concentration;
 - vii. Soil curve numbers or runoff coefficients including assumed soil moisture conditions;
 - viii. Peak runoff rates and total runoff volumes for each watershed area;

- ix. Infiltration rates, where applicable;
 - x. Culvert, stormwater sewer, ditch and/or other stormwater conveyance capacities;
 - xi. Flow velocities;
 - xii. Data on the increase in rate and volume of runoff for the design storms referenced in the MS4 BMP manual; and
 - xiii. 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) **Buffer Zone Requirements.** 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. 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, preferable native, water quality buffers protect water bodies by providing structural integrity and canopy cover, as well as stormwater infiltration, filtration and evapotranspiration. Buffer zones are not primary sediment control measures and should not be relied upon as such. Rehabilitation, restoration and enhancement of a natural buffer zone is allowed, if necessary, for improvement of its effectiveness of protection of the waters of the state with proper permit(s).
- (a) Permanent Vegetative Buffer
- Permanent buffers shall be maintained adjacent to all waters of the state including perennial and intermittent streams, rivers, ponds, lakes and wetlands. All new development and redevelopment sites are required to preserve water quality buffers. Buffers shall be clearly marked on site development plans, plats, grading permit applications, and/or concept plans. Buffer width depends on the size of a drainage

area and/or status of receiving stream (impaired or high quality/exceptional).

i. Streams or other drainage areas less than 1 square mile

An undisturbed vegetative buffer of thirty (30) feet minimum (as measured from the top-of-bank) shall be maintained.

ii. Streams or other drainage areas greater than or equal to 1 square mile

An undisturbed vegetative buffer of sixty (60) feet minimum (as measured from the top-of-bank) shall be maintained. The 60-foot 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 30 feet at any measured location.

iii. Impaired or High Quality/Exceptional Streams

An undisturbed vegetative buffer of sixty (60) feet minimum (as measured from the top-of-bank) shall be maintained. The 60-foot 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 30 feet at any measured location.

(b) Construction Buffer

A construction buffer applies to all waters of the state adjacent to construction sites. Every effort shall be made for construction activities to not take place within the buffer and the buffer should remain in its undisturbed vegetated state.

i. A 30-foot natural riparian buffer zone adjacent to all waters of the state at the construction site shall be preserved, to the maximum extent practical, during construction activities at the site except for those designated as impaired or high quality/exceptional by TDEC. The 30-foot 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 15 feet at any measured location.

ii. A 60-foot natural riparian buffer zone adjacent to all receiving streams designated as impaired or high quality/exceptional waters shall be preserved, to the maximum extent practical, during construction activities at the site. The 60-foot 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 25 feet at any measured location.

(c) Variance

Every attempt should be made for development and redevelopment activities to not take place within the buffer zone. If water quality widths, as defined above, cannot be fully accomplished on-site, the City of Lebanon Public Works Committee may grant a variance to the water quality buffer requirements. When a variance is granted by the Public Works Committee, mitigation must be at least as protective of the natural resources and the environment as the undisturbed buffer. A determination that standards cannot be met 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.

If it is not feasible to provide an undisturbed naturally vegetated buffer, of any size, between the disturbed portion of the site and any waters of the state, sediment and erosion controls certified by a TN licensed professional engineer to achieve the equivalent sediment load reduction as an undisturbed naturally vegetated, 30-foot buffer (or 60-foot for impaired or exceptional streams) may be implemented on approval by the City Engineer. A justification for use and design shall be included in the SWPPP. These projects include, but are not limited to, utility line construction, roadway construction, greenway construction, construction of a permanent outfall or a velocity dissipating structures, etc.

(d) Exemption

If pre-existing development on the site has resulted in significant disturbances within the 30-foot or 60-foot buffer (for example, sites where all vegetation in the 30-foot buffer areas has been removed and replaced with impervious surfaces as a result of prior development), the site is exempt from complying with the buffer requirements as long as the area of encroachment is not extended.

Section 6. 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 of Lebanon is required before any performance security will be released. The City of Lebanon shall have the discretion to adopt provisions for a partial pro-rata release of the performance security on the completion of various stages of development. In addition, occupation permits shall not be granted until corrections to all BMP's

have been made and accepted by the City of Lebanon. Instructions and certification required for providing as-built information is found in Appendix A of this manual.

(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 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 (7 days for slopes greater than 35%) 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) 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 stormwater management facilities.** Periodic inspections of facilities shall be performed, documented, and reported in accordance with this chapter, as detailed in §7.
- (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 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.

Section 7. Existing Locations and Ongoing Developments.

- (1) **On-site stormwater management facilities maintenance agreement:**
 - (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 (see Appendix C for draft) shall:
 - (1) 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.
 - (2) Provide for a periodic inspection by the property owners in accordance with the requirements 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 written report of the inspection to the City of Lebanon. 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.

- (3) 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.
- (4) Provide that maintenance needs must be addressed in a timely manner, on a schedule to be determined by the City of Lebanon.
- (5) Provide that if the property is not maintained or repaired within the prescribed schedule, the City of Lebanon 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 of Lebanon's cost of performing the maintenance shall be a lien against the property.

(2) **Existing problem locations – no maintenance agreement.**

- (a) The City of Lebanon 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 BMP's 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 BMP's.

- (3) **Owner/Operator Inspections - generally.** The owners and/or the operators of stormwater management practices shall:
- (a) Perform routine inspections to ensure that the BMP'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 of Lebanon 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 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 of Lebanon 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 §5(2)(c)(i), (ii), (iii) and on a schedule acceptable to the City of Lebanon.
 - (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 City of Lebanon Public Works Department 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
 - (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) Catch basin inserts/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 of Lebanon under this section are subject to appeal under section 11 of this ordinance.

Section 8. 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 §7 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 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 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 BMP's 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.

Section 9. Enforcement.

- (1) **Enforcement authority.** The City of Lebanon 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 City of Lebanon 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 of Lebanon’s own approval process affecting the facility’s ability to discharge to the City of Lebanon can be used to abate the violation.

(f) **Additional Measures** – The City of Lebanon may also use other escalated measures provided under local legal authorities. The City of Lebanon 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 of Lebanon 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 of Lebanon 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 of Lebanon. 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 of Lebanon 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 of Lebanon 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 of Lebanon finds that any person has violated or continues to violate this ordinance 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 of Lebanon finds that any person has violated or continues to violate this chapter or any permit or order issued hereunder, the City of Lebanon 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 of Lebanon 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 of Lebanon Public Works Department 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 ordinance and in the BMP manual adopted by the city under this ordinance, the strictest standard shall prevail.

(3) **Enforcement Response Plan (ERP).** The City's ERP (see Appendix B) provides an enforcement action matrix for inspector's reference for failure to comply with construction requirements, illicit discharge removal and post-construction requirements.

Section 10. 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 City of Lebanon, 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 City of Lebanon Public Works Department 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.
- (3) **Measuring civil penalties.** In assessing a civil penalty, the City of Lebanon 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:
 - (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 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.

Section 11. 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.

STORMWATER AS-BUILT REQUIREMENTS

The following is required per the City of Lebanon's Stormwater Management Ordinance, Section 6: Permanent Stormwater Management: Operation, Maintenance and Inspection

(1). As-Built Plans, which states:

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 of Lebanon is required before any performance security will be released. The City of Lebanon shall have the discretion to adopt provisions for a partial pro-rata release of the performance security on the completion of various stages of development. In addition, occupation permits shall not be granted until corrections to all BMP's have been made and accepted by the City of Lebanon.

INSTRUCTIONS

Prior to the City of Lebanon Engineering Department issuing a statement that the entire drainage associated with this project meets the City's requirements; the attached form must be filled out and returned to this office along with the items listed below. An engineer must also stamp and sign this form. Failure to return this information to this office will delay our approval; therefore, it is recommended that as soon as you anticipate a completion date for your project, you should notify your engineer immediately.

1. An electronic As-Built with the below layers and specifications should be emailed, or delivered to City Engineering Department: Regina Santana: rsantana@lebanontn.org, phone (615) 444-3647 ext. 248.
2. Coordinate data shall be presented in the State of Tennessee Plane system with the North American Datum 1983 (NAD83) and North American Vertical Datum (NAVD) of 1988.
3. Along with the electronic As-Built, a hard copy must be signed and sealed by a licensed professional engineer and submitted for approval before any Letters of Credit can be released.
4. The City requires As-Builts to be submitted for all development in the City concerning stormwater management facilities infrastructure including quality and conveyance information. The As-Builts should show plainly the approved and constructed layout, elevations, design, etc. of the entire site. The following layers must be included for the site:
 - Catch Basins
 - Conduits (swales, ditches, etc.), hydro (ponds, streams, etc.)
 - Culverts (inlets and outfalls),
 - All impervious surfaces: roads, driveways, etc. if they are private.
 - For residential developments, As-Builts must include approved and constructed layout for paved areas and all detention and water quality infrastructures. Show cross sections at critical areas on the road systems and include storm drains in those cross sections. Certain engineered water quality conveyances such as engineered swales have a required slope and cross section to give maximum water quality benefits for the area; these require as-built cross sections to determine if they are built per designed specifications.

CITY OF LEBANON
Engineering Department
200 North Castle Heights Avenue, Suite 300
Lebanon, Tennessee 37087

STORMWATER INFRASTRUCTURE CERTIFICATION

Date:
 From:
 Project Name:
 Description of Site:

The following information is **REQUIRED** and must be submitted in the format shown:

Designed storage volume		As-Built volume	
Design outlet device type		As-Built device type	
Design outlet device dimensions		As-Built device dimensions	

***New calculations for the pond are required if it is undersized or the shape has been changed.**

List of Structures

Structures/Swales/Devices, Etc.	As-designed Elevations	As-Built Elevations

Do all the pipe grades exceed 0.5%? If no, which pipes?
Do all the pipe velocities exceed 2.0 ft/sec? If no, which pipes?
Does the flow for any pipe exceed its capacity? If yes, which pipes?

Record Drawing Certification:

I have included in my As-Built the following layers: **catch basins, conduits (swales, ditches, etc.), hydro (ponds, stream, etc.), culverts (inlets and outlets), all impervious surfaces and necessary elevations.** I hereby certify that the stormwater quality, drainage structures and/or detention/retention basins(s) and all other structures included on the As-Built were constructed as shown on this/these record drawing(s). I further certify that the **intent** and design of the approved project drawings have been met or exceeded with this/these record drawing(s).

_____ Date: _____
 (Project Engineer)

Required:
(Sign, Date and Seal Plan(s))



City of Lebanon, Tennessee Enforcement Response Plan (ERP)

October 2012



This outline addresses available types of enforcement responses as well as showing an enforcement action matrix for inspector reference for failure to comply with construction requirements, illicit discharge removal and post-construction requirements. The ERP is included in the City's Stormwater Management Plan (SWMP). This plan is a guide; any of the enforcement responses may be used at the City's discretion. The City may also choose to pursue an enforcement case by skipping intermediate steps.

I. Description of Each Type of Enforcement Response

A. Verbal Warnings

1. At a minimum, verbal warnings must specify the nature of the violation and required corrective action.
2. 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 Notices

1. Written Warning
 - a) A written warning, either by email or letter, must specify the nature of the violation, the required corrective action and a follow-up inspection date.
2. Notice of Violation (NOV)
 - a) The NOV must specify the nature of the violation, the required corrective action and a follow-up inspection date.
 - b) The NOV should require the party committing the violation to submit an explanation of the violation and a plan for the satisfactory correction and prevention of the violation conditions, including specific required actions within ten (10) days.
 - c) The NOV response plan must be submitted to the City's Stormwater Coordinator.
 - d) Submitting this NOV response plan does not relieve the party committing the violation of any violations that occurred either before or after the receipt of the NOV. Monetary penalties (civil and administrative penalties) may be assessed for NOV's at the City's discretion.

C. Citations with Administrative Penalties

1. Consent Orders
 - a) The City of Lebanon Public Works Department 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.
 - b) A consent order will include specific corrective actions to be taken to correct the noncompliance along with a specified time period to finish the corrective actions.

- c) A consent order has the same force and effect as administrative orders such as the compliance order and the cease and desist order.
2. Show Cause Hearing
 - a) The City of Lebanon Public Works Department is able to order a person who violates the stormwater ordinance or a permit or order issued hereunder, to show cause why a proposed enforcement action should not be taken.
 - b) A notice for this hearing must be served on the person specifying the time and place for the meeting, the proposed enforcement action, the reasons for the proposed enforcement action and a request for the violator to show cause why this proposed enforcement action should not be taken.
 - c) The meeting notice must be either served personally or delivered by registered or certified mail (return receipt requested) at least ten (10) days before the hearing.
 3. Compliance Order
 - a) When the City of Lebanon Public Works Department finds that any person has violated or continues to violate the stormwater ordinance, a permit issued under the ordinance or an order issued hereunder, a compliance order may be issued to the violator directing that, following a specific time period, adequate structures or devices be installed and/or procedures implemented and properly operated.
 - b) 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.
 - c) Monetary penalties (civil and administrative penalties) will be assessed with the compliance order.

D. Stop Work Orders

1. Cease and Desist Order
 - a) The MS4 Public Works Department may issue a stop work order or an order to cease and desist for any person who has violated or continues to violate this chapter or any permit or order issued hereunder.
 - b) This order requires that the violator must comply with the order and

must take appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation; including halting operations except for cleaning up, terminating the discharge and installing appropriate control measures.

- c) Monetary penalties (civil and administrative penalties) will be assessed with the cease and desist order.

E. Suspension, Revocation or Modification of Permit

1. 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.
2. 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 violation(s) described therein, provided such permit may be reinstated upon such conditions as the City of Lebanon may deem necessary to enable the applicant or other responsible person to take the necessary remedial measures to cure such violation(s).

F. Additional Measures

1. Civil Penalties
 - a) The city declares that any person violating the provisions of this chapter may be assessed a civil penalty by the MS4 Public Works Department.
 - b) These penalties will be no less than fifty dollars (\$50.00) and no more than five thousand dollars (\$5,000.00) per day for each day of violation.
 - c) Each day of violation shall constitute a separate violation.
 - d) The MS4 Public Works Department may consider the following in assessing civil penalties for violations:
 - (1) The harm done to the public health or the environment;
 - (2) Whether the civil penalty imposed will be a substantial economic deterrent to the illegal activity;
 - (3) The economic benefit gained by the violator;
 - (4) The amount of effort put forth by the violator to remedy this violation;
 - (5) Any unusual or extraordinary enforcement costs incurred by

the municipality;

- (6) The amount of penalty established by ordinance or resolution for specific categories of violations; and
- (7) Any equities of the situation which outweigh the benefit of imposing any penalty or damage assessment.

2. Recovery of Damages and Costs

In addition to civil penalties, the City may recover:

- a) All damages proximately caused by the violator to the City, which may include 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.

3. Performance Security

- a) The City may require an applicant to submit a performance security before a permit is issued or reinstated in order to ensure that the stormwater practices are installed by the permit holder as required by the approved stormwater management plan.
- b) Acceptable performance securities include a Letter of Credit in the City's required format or a cashiers check that will be deposited in the City's account.
- c) The amount for the performance security will be based on the total estimated construction cost, plus 10%, of the structural BMPs approved under the permit plus any reasonable foreseeable additional related costs (e.g., damages, enforcement).
- d) The applicant must provide an itemized construction cost estimate complete with unit prices or an engineer's estimate which shall be subject to acceptance, amendment or rejection by the MS4. Alternatively, the City shall have the right to calculate the construction cost estimate if it so chooses.
- e) The performance security shall contain forfeiture provisions for failure to complete the specified work in the stormwater management plan.
- f) To receive full release of the performance security, both of these steps must be fulfilled:
 - (1) The applicant must submit as-built drawings and written

certification by a registered professional engineer licensed to practice in Tennessee stating that the structural BMP(s) have been installed in substantial compliance with the approved plan and other applicable provisions of the stormwater ordinance.

(2) The City will make a final inspection of the structural BMP(s) to ensure substantial compliance with the approved plan and the provisions of this ordinance.

g) Provisions for a partial pro-rata release of the performance security based on the completion of various development stages can be made at the discretion of the City. The City reserves the right to retain surety until consent warranty or other conditions are satisfied.

6. Legal Action/Other Remedies

a) The City may bring legal action to enjoin the continuing violation of this chapter. Pursuant to the City's Stormwater Ordinance, the City of Lebanon may, through the City Attorney, petition the appropriate court(s) for issuance of preliminary or permanent injunctions to restrain or compel activities by an owner.

II. NPDES Permit Referrals

A. For a known project site involving a construction activity or an industrial stormwater discharge where the discharge should also be covered by a state NPDES permit, and the known site does not have a state NPDES permit, the City of Lebanon must notify TDEC about this discharge through the local EFO. The following information must be supplied to the local EFO:

1. Construction project or industrial facility location;
2. Name of owner or operator;
3. Estimated construction project size or type of industrial activity (including SIC code if known); and
4. Records of communication with the owner or operator regarding filing requirements.

B. Where the City has used progressive enforcement to achieve compliance with this chapter and in the judgment of the City has not been successful, the City may refer the violation to TDEC through the local EFO. For the purposes of this provision, "progressive enforcement" shall mean two (2) follow-up inspections and two (2) warning letters. The following information must be supplied to the local EFO:

1. Construction project or industrial facility location;

2. Name of owner or operator;
3. Estimated construction project size or type of industrial activity (including SIC code if known); and
4. Records of communication with the owner or operator regarding the violation, including at least two follow-up inspections, two warning letters or notices of violation, and any response from the owner or operator.

III. Recordkeeping & Tracking

- A. All non-compliance instances must be tracked either electronically or using paper files. This tracking must include all records and documents related to stormwater ordinance violations at the site and should be stored in the enforcement case file.
- B. The minimum required documentation must include the following items:
 1. Name of owner/operator;
 2. Location of construction project or industrial facility;
 3. Description of violation;
 4. Required schedule for returning to compliance;
 5. Description of enforcement responses used, including escalated responses if repeat violations occur or violations are not resolved in a timely manner;
 6. Accompanying documentation of enforcement response (e.g., notices of noncompliance, notices of violation, etc.);
 7. Any referrals to different departments or agencies; and
 8. Date violation was resolved.

- C. The City must use the non-compliance records and tracking to identify any chronic violators, and use this information to work toward reducing the rate of noncompliance relapse.
 - 1. This will include tracking violations, applying incentives and/or disincentives, and increasing the inspection frequency of the operator's sites.
 - 2. If the operator fails to take corrective actions, the City must pursue progressive enforcement and, if need be, perform the necessary work and assess against the owner the costs incurred for repairs.
- D. For BMPs on public property or within public rights-of-way, the City must document that appropriate maintenance and/or repairs have been completed (e.g., using photos, maintenance logs, contractor invoices).
- E. The City must keep any closed files related to enforcement for a minimum of three (3) years after the file is closed consistent with the MS4 General Permit conditions. However, file retention time may be longer if required by law.
- F. In the case of Illicit Discharge complaints, the City shall investigate and respond within 7 days from detection, and eliminated as soon as possible.

IV. Enforcement Action Matrices

A. Noncompliance with Construction Requirements

- 1. See Table 1 for the enforcement action matrix for noncompliance with construction requirements. In general, the severity of the enforcement measure increases moving down the matrix.
- 2. For parties who fail to obtain a land disturbance permit before starting work, the initial enforcement action may be more stringent than for a project that has an approved plan but has failed to comply with the approved plan.
 - a) The City has the ability to stop project work for non-permittees. Stopping work generally includes all work except what is needed to address stormwater and/or safety until the project has an approved stormwater plan.
 - b) Non-permittees may be required to perform corrective actions

as advised by the City and to develop the required erosion control and/or stormwater plan submittals to submit to the City for review and approval.

- c) The City will not issue a land disturbance permit where work began prior to receiving approval from the City. However, the City may issue another approval to the non-permittee following the plan review and approval process similar to what would have happened if the project plans had been submitted for advance review and permit approval before work began.
- d) Once the corrective actions have been successfully completed and the submitted stormwater plan has been approved by the City, the City will issue the violator a written notice that the situation has been resolved.
- e) If the corrective actions or the submitted plan cannot be approved, the City should also send a written notice to the violator describing what was deficient and what step(s) are needed to resolve the situation.

Table 1. Enforcement Action Matrix for Noncompliance with Construction Requirements.

Type of Violation	Failure to Obtain Land Disturbance Permit Prior to Starting Work	Minor Violations (Failure to Install, Maintain or Upgrade Measures on Erosion and Sediment Control Plan)	Minor Violations (Failure to Install, Maintain or Upgrade Measures on Erosion and Sediment Control Plan for a Priority Area)	Major Violation (Failure to Install, Maintain or Upgrade Measures on Erosion and Sediment Control Plan that Resulted in a Sediment Release from the Project Site)	Repeat Violation by a Party (Same Site)	Repeat Violation by a Party (Different Site than initial Noncompliance Site)
Enforcement Measures For Use (Increasing Severity Moving Down the Chart)	Cease and Desist Order or Consent Order	Verbal and/or Written Warning	Verbal and/or Written Warning	NOV and/or Verbal or Written Warning	NOV and/or Verbal or Written Warning	NOV and/or Verbal or Written Warning
		NOV	NOV	Compliance Order or Consent Order	Compliance Order or Consent Order	Compliance Order or Consent Order
	Legal Action	Compliance Order or Consent Order	Compliance Order or Consent Order	Cease and Desist Order or Consent Order	Cease and Desist Order or Consent Order	Cease and Desist Order or Consent Order
		Cease and Desist Order or Consent Order	Cease and Desist Order or Consent Order	Suspension, Revocation or Modification of Permit	Suspension, Revocation or Modification of Permit	Suspension, Revocation or Modification of Permit
		Suspension, Revocation or Modification of Permit	Suspension, Revocation or Modification of Permit	Legal Action	Legal Action	Legal Action
		Legal Action	Legal Action			

This plan is a guide; any of the enforcement responses may be used at the City's discretion and the City may choose to escalate an enforcement case by skipping intermediate steps. Penalties (Civil, Recovery of Damages and Costs, Etc.) may be assessed as described in the stormwater ordinance and as allowed by law at the City's discretion.

B. Failure to Remove Illicit Discharges

1. See Table 2 for the enforcement action matrix for failure to remove illicit discharges.
2. The action matrix was set up to provide varying suggested degrees of response to noncompliance documented by the City.
3. In general, the severity of the enforcement measure increases moving down the matrix.

Table 2. Enforcement Action Matrix for Failure to Remove Illicit Discharges.

Type of Violation	First Failure to Remove illicit Discharge	Repeat Violation by a Party (Same Site)	Repeat Violation by a Party (Different Site than initial Noncompliance Site)
Enforcement Measures For Use (Increasing Severity Moving Down the Chart)	Verbal and/or Written Warning	NOV and Verbal and/or Written Warning	NOV and Verbal Warning and/or Written Warning
		Compliance Order or Consent Order	
	NOV	Cease and Desist Order or Consent Order	Compliance Order or Consent Order
	Compliance Order or Consent Order	Legal Action	Cease and Desist Order or Consent Order
	Cease and Desist Order or Consent Order		Legal Action
Legal Action	Legal Action		

This plan is a guide; any of the enforcement responses may be used at the City's discretion and the City may choose to escalate an enforcement case by skipping intermediate steps. Penalties (Civil, Recovery of Damages and Costs, Etc.) may be assessed as described in the stormwater ordinance and as allowed by law at the City's discretion.

C. Noncompliance with Post-Construction Requirements

1. See Table 3 for the enforcement action matrix for noncompliance with post-construction requirements.
2. The action matrix was set up to provide varying suggested degrees of response to noncompliance documented by the City.
3. In general, the severity of the enforcement measure increases moving down the matrix.

Table 3. Enforcement Action Matrix for Noncompliance with Post-Construction Requirements

Type of Violation	First Failure to Comply with Post-Construction Requirements	Repeat Violation by a Party (Same Site)	Repeat Violation by a Party (Different Site than initial Noncompliance Site)
Enforcement Measures For Use (Increasing Severity Moving Down the Chart)	Verbal and/or Written Warning	NOV and Verbal and/or Written Warning	NOV and Verbal Warning and/or Written Warning
		Compliance Order or Consent Order	
	NOV	Cease and Desist Order or Consent Order	Compliance Order or Consent Order
	Compliance Order or Consent Order	Legal Action	Cease and Desist Order or Consent Order
	Cease and Desist Order or Consent Order		Legal Action
Legal Action			

This plan is a guide; any of the enforcement responses may be used at the City’s discretion and the City may choose to escalate an enforcement case by skipping intermediate steps. Penalties (Civil, Recovery of Damages and Costs, Etc.) may be assessed as described in the stormwater ordinance and as allowed by law at the City’s discretion.

INSPECTION AND MAINTENANCE AGREEMENT FOR PRIVATE STORMWATER MANAGEMENT FACILITIES

The term “**STORMWATER MANAGEMENT FACILITIES**” may refer to water quality and/or water quantity facilities (i.e. detention basins, retention basins, swales, pipes, oil/water separators, sand filtering devices, etc.) which are located OUTSIDE the public road right-of-way (ROW).

Property Identification (“Property”): _____ City Use: _____

Map: _____ Parcel No. _____ Land Disturbance Permit No. _____
Record Book: _____ Page No. _____

Project Name: _____
Project Address: _____
Owner(s): _____
Owner Address: _____
City: _____ State: _____ Zip Code: _____

SEE LEGAL DESCRIPTION ATTACHED HERETO AS EXHIBIT A.

This Inspection and Maintenance Agreement (“Agreement”) is made and entered into this ____ day of _____, of the year, 20__, by and between _____ (hereinafter called the “Owner”, whether one or more) and The City of Lebanon, (hereinafter called “City”).

WITNESSETH, that

WHEREAS, the City is required by federal and state surface water quality regulations and its National Pollutant Discharge Elimination System (NPDES) permit to prevent surface water quality degradation from development or redevelopment activities within its jurisdiction, and the City has adopted surface water quality regulations as required and such regulations are contained in the Stormwater Management chapter of the City Code; and

WHEREAS, the Owner owns the Property identified above and has or will construct certain stormwater management facilities on the Property, and has developed a Stormwater Maintenance Plan (SWMP No. _____), as may be amended from time to time (the “Plan”) for the maintenance of those facilities, which the City has reviewed and approved, and a copy of which will be maintained at the City of Lebanon. A drawing showing the general area of the facilities covered by the Plan is attached to this Agreement for ease of identification.

NOW, THEREFORE, in consideration of the benefits received by the Owner as a result of the approval by the City of the Plan, the Owner does hereby covenant and agree with the City as follows:

1. The Owner shall provide adequate long term maintenance and continuation of the stormwater control measures described in the Plan, to ensure that all stormwater facilities are and remain in property working condition. The Owner shall perform inspection and preventative maintenance activities in accord with the Plan.

2. The Owner shall maintain a copy of the Plan on site, together with a record of inspections and maintenance actions required by the Plan. The Owner shall document the times of inspections, remedial actions taken to repair, modify or reconstruct the system, the state of control measures and notification of any planned change in responsibility for the system. The City may require that the Owner's records be submitted to the City.
3. If it is later determined that the City's NPDES permit clearly directs Owners or the City to manage stormwater treatment systems differently than specified in the Plan, the direction of the NPDES permit shall override the provisions of the Plan.
4. The Owner hereby grants permission to The City, its authorized agents, and employees the right of ingress, egress and access to enter the Property at reasonable times and in a reasonable manner for the purpose of inspecting, operating, installing, constructing, reconstructing, maintaining or repairing the facilities. The Owner hereby grants to the City the right to install and maintain equipment to monitor or test the performance of the stormwater control system for quality and quantity upon reasonable notice to the Owner. Whenever possible, The City shall notify the Land Owner prior to entering the property and shall use its best efforts not to disturb the Land Owner's use and enjoyment of the Property while conducting said inspections.
5. In the event, the City determines that the stormwater facilities are not being maintained in good working order and gives written notice to the Owner to repair, replace, reconstruct or maintain said facilities within a reasonable time (maximum time specified will be 30 days), and the Owner fails to comply with the City's notice within the time specified, Owner authorizes the City or its agents to enter upon the Property to repair, reconstruct, replace or perform maintenance on said facilities at the Owner's expense. It is expressly understood and agreed that the City is under no obligation to maintain or repair said facilities, and in no event shall this Agreement be construed to impose any such obligation on the City.
6. In the event, the City, pursuant to this Agreement, performs work of any nature, or expends any funds in the performance of said work for labor, use equipment, supplies, materials, and the like, the Owner shall reimburse the City upon demand, within forty-five (45) days of receipt of written request for reimbursement for all costs incurred by the City. If the City has not received said payment from the Owner by the end of said forty-five (45) day period, the City may use any other remedies available by law to collect such balances plus reasonable expenses of collection, court costs, and attorney fees.
7. It is the intent of this Agreement to assure the City of proper maintenance of onsite stormwater facilities by the Owner; provided, however, that this Agreement shall not be deemed to create or affect any additional liability of any party for damage alleged to result from or be caused by stormwater management.
8. The Owner and the Owner's heirs, executors, administrators, assigns, and any other successors in interest, shall indemnify and hold the City and its agents and employees harmless for, and defend against at its own expense, any and all damages, accidents, casualties, occurrence, claims, or attorney's fees which might arise or be asserted, in whole or in part, against the City from the construction, presence, existence, or maintenance of the storm water

control facilities subject to the Plan and this Agreement. In the event a claim is asserted against the City, its officers, agents or employees, the City shall notify the Owner, who shall defend at Owner's expense any suite or other claim. If any judgment or claims against the City shall be allowed, the Owner shall pay all costs and expenses in connection therewith. The City will not indemnify, defend or hold harmless in any fashion the Owner from any claims arising from any failure, regardless of any language in any attachment of other document that the Owner may provide.

- 9. No waiver of any provision of this Agreement shall affect the right of any party thereafter to enforce such provision or to exercise any right or remedy available to it in the event of any other default.
- 10. The Owner shall record this Agreement with the Register of Deeds of Wilson County, Tennessee; this Agreement shall constitute a covenant running with the land, and shall be binding upon the Owner and the Owner's heirs, administrators, executors, assigns, and any other successors in interest.
- 11. The Owner shall have the facilities inspected in accordance with § 7(3) of the City's stormwater management ordinance and certify to the City that the constructed facilities conform and purport substantially to the approved Plan. If the constructed condition of the facility or its performance varies significantly from the approved Plan, appropriately revised calculations shall be provided to the City and the Plan shall be amended accordingly.
- 12. The Owner agrees that for any systems to be maintained by a property owner's association, deed restrictions and covenants for the subdivision or other development will include mandatory membership in the property owner's association responsible for providing maintenance of the system, will require the association to maintain the stormwater system, will prohibit termination of this covenant by unilateral action of the association, and provide for unpaid dues or assessments to constitute a lien upon the property of an owner upon recording a notice of non-payment.
- 13. This Agreement must be re-approved and re-executed by the City if all or a portion of the Property is subdivided or assembled with other property.

Owner: _____ Date: _____
Signature by Individual

Owner: _____ Date: _____
Signature by Individual

STATE OF _____)
COUNTY OF _____)

Personally appeared before me, the undersigned Notary Public of the state and county mentioned, _____, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and executed this Agreement (Inspection and Maintenance Agreement for Private Stormwater Management Facilities) for the purposes contained herein.

Witness my hand and official seal at office, this _____ day of _____, of the year _____.

Notary Public

My Commission Expires: _____

Accepted By:

For the City of Lebanon

STATE OF TENNESSEE)

)

COUNTY OF WILSON)

Personally appeared before me, the undersigned Notary Public of the state and county mentioned, _____, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and executed this Agreement (Inspection and Maintenance Agreement for Private Stormwater Management Facilities) on behalf of the City of Lebanon for the purposes contained herein.

Witness my hand and official seal at office, this _____ day of _____, of the year _____.

Notary Public

My Commission Expires: _____