Stormwater Management Plan 2017-2022

(City of Mulvane, Sedgwick-Sumner County, Kansas)

STORMWATER MANAGEMENT PLAN

2017 TO 2022

CITY OF MULVANE, SEDGWICK-SUMNER COUNTY, KANSAS

KS Permit No. M-AR64-SU01

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SECTION I – GENERAL SWMP OVERVIEW

Scope

This Stormwater Management Plan (SWMP) document outlines measures to be taken by the City of Mulvane, Kansas to reduce the discharge of TMDL's regulated parameters addressed in the City's permit. This SWMP will be implemented within the boundary limits of the City of Mulvane. Any changes to this plan may be made only as allowed by the current MS4 Permit or otherwise approved by the KDHE.

This SWMP was prepared and submitted to the Kansas Department of Health and Environment (KDHE), Bureau of Water, Municipal Programs Section as required for compliance with the requirements of the City's Kansas Water Pollution Control MS4 Permit No. M-AR64-SU01.

NPDES Permit

The City of Mulvane requires all construction projects that disturb one acre or more of land to be permitted and approved by the KDHE. These projects shall have a Notice of Intent (NOI) to discharge stormwater from the project site and accompanying Storm Water Pollution Prevention Plan (SWPPP). No work will be allowed prior to furnishing the City with a signed approved NOI permit.

All projects shall be required to have erosion protection and utilize Best Management Practices, regardless of the area disturbed.

SECTION II – MINIMUM CONTROL MEASURES

A. Public Education and Outreach Goals - The City will conduct a public education program including the use of public access TV, Web Page, School Newsletter, Educational brochures and Storm Drain/Inlet markings to promote public involvement in reducing pollutants in stormwater runoff. This program includes the following BMP's descriptions and measurable goals:

BMP ID Number E.1.1: City TV Channel. The City will use public access TV to conduct outreach activities that address the impacts of stormwater discharge on lakes, streams and rivers.

Measurable Goal(s): Use TV Ch. 7 for public service announcements. Announcements began airing in 2005 and are updated monthly.

BMP ID Number E.1.2: City Web Page. Create web page with information on storm water rules to help reduce pollutants. Refer to links to other sites for additional information.

Measurable Goal(s): Create a web page with relevant storm water pollution control information on it to educate the public.

BMP ID Number E.1.3: School Newsletter. Provide information about storm water pollution to Unified School District No. 263 for inclusion into the local school district's quarterly newsletter. The newsletter is mailed by USD 263 to every household in the City.

Measurable Goal(s): Place information articles in each edition of the school district quarterly newsletter about storm water pollution control methods.

BMP ID Number E.1.4: Educational Resources. The City will prepare brochures with stormwater "do's and don'ts". These brochures are available at City Hall and are available for distribution to property owners.

Measurable Goal(s): Make education material available in new residents packets. Packets are available when customers sign up for utility service. Distribute 50/year.

BMP ID Number E.1.5: Storm Drain/inlet marking. Placards will be placed on all storm drain inlet structures that read "Only rain…Down the Storm Drain".

Measurable Goal(s): Placards have been purchased that say "Only Rain…Down the Storm Drain". This will be an ongoing program until all storm drain inlet structures are marked.

B. Public Involvement and Participation Goals - The City will conduct presentations to local community groups to educate and promote understanding of stormwater issues including the quality of stormwater runoff. This program includes the following BMP's descriptions and measurable goals:

BMP ID Number E.2.1: Public information presentations and meetings (notices in several print media) to present information to citizen groups concerning storm water pollution control.

Measurable Goal(s): Make three public presentations per year to try to broaden the public's understanding of the issue and improve support for stormwater programs.

C. Illicit Discharge Detection and Elimination Goals - The City will establish and enforce a program to detect and eliminate illicit discharges in the City's stormwater drainage system. This program includes the following BMP's descriptions and measurable goals:

BMP ID Number E.3.1: Prepare and maintain a GIS Storm Sewer System Map showing the location of all outfalls and the names and locations of receiving streams, rivers, etc.

Measurable Goal(s): Create a map that demonstrates a basic awareness of the City's system. The map helps determine the extent of discharge wet weather flows and possible sources of dry weather flows.

BMP ID Number E.3.2: Administer City Code Section 710.020(B), Prohibits the Discharge of Untreated Sewage.

Measurable Goal(s): Prohibit the discharge of untreated sewage to any natural outlet (creek, stream, river).

BMP ID Number E.3.3: Train employees to help them watch out for and identify illicit storm water flows.

Measurable Goal(s): Hold one meeting per year with Street Dept. employees to train them on how to identify illicit storm water flows.

BMP ID Number E.3.4: Administer Criminal Dumping: City Code Section 210.040, Criminal Dumping.

Measurable Goal(s): Prohibit the dumping of trash, refuse or brush into a lake, stream, or watercourse or street ROW.

BMP ID Number E.3.5: Administer City Code Section 210.122 (D), Unlawful Depositing of Yard Waste:

Measurable Goal(s): Prohibit depositing grass clippings and leaves on any public property including city streets and drainage ways.

BMP ID Number E.3.6: Rehabilitate sanitary sewer system (e.g., relining pipes, resealing manholes, and raising manholes covers) to eliminate infiltration/inflow and sewage overflows and discharges.

Measurable Goal(s): Rehabilitate approx. 1,200 linear ft. of sanitary sewer main each year using cured-in-place pipe.

D. Construction Site Stormwater Runoff Control Goals - The City will establish and enforce a program to reduce pollutants in stormwater runoff from construction activities inside the City limits that result in a land disturbance of greater than or equal to one acre. This program includes the following BMP's descriptions and measurable goals:

BMP ID Number E.4.1: A Master Drainage Plan is required to be submitted with all new subdivision development plats in the City. Refer to Resolution No. 2004-08, "A Resolution Declaring, Establishing and Defining a Storm Water Drainage Policy for the City of Mulvane, Kansas".

Measurable Goal(s): The Master Plan shall indicate the manner in which storm water will be accepted from adjacent lands, handled through the new development and received by adjacent downstream properties.

BMP ID Number E.4.2: A revised Storm Water Policy was adopted on Nov. 2, 2015 per Resolution No. 2015-14, "A Resolution Declaring, Establishing and Defining a Storm Water Drainage Policy for the City of Mulvane, Kansas".

Measurable Goal(s): Imposes requirements on land developers, builders, contractors, engineers, and others planning to develop, build, or otherwise install improvement on properties within Mulvane.

BMP ID Number E.4.3: Site Plan Review. City Engineer reviews new site development plans for all new multi-acre developments for potential water quality impacts.

Measurable Goal(s): City Engineer will review all site plans submitted to help reduce potential sources of pollution during new construction.

BMP ID Number E.4.4: Storm Water Discharge Control Form for all new house construction permits. Contractors must complete prior to beginning work. Addresses work site erosion and storm water runoff control.

Measurable Goal(s): The Storm Water Discharge Control Form has been developed and is part of the building permit process. Storm Water Discharge Control Form permits will be review for all new construction.

E. Post-Construction Stormwater management Goals - The City will establish and enforce a program to address post-construction stormwater runoff for new development and redevelopment projects inside the City limits that result in a land disturbance of greater than or equal to one acre. This program includes the following BMP's descriptions and measurable goals:

BMP ID Number E.5.1: Administer City Code Section 210.119. Contractors shall Clean Streets and Sidewalks. Requires contractors, upon completion of work, to remove dirt and other foreign substances from streets and sidewalks as a result of their work.

Measurable Goal(s): All construction sites are inspected before an occupancy permit is issued to ensure complaince with CC Sec. 119.

BMP ID Number E.5.2: Proper maintenance of detention and retention facilities.

Measurable Goal(s): New developments that have detention or retention facilties will make provisions for the proper maintenance of these facilities.

BMP ID Number E.5.3: A revised Storm Water Policy was adopted on Nov. 2, 2015 per Resolution No. 2015-14, "A Resolution Declaring, Establishing and Defining a Storm Water Drainage Policy for the City of Mulvane, Kansas".

Measurable Goal(s): A post-construction as-built survey of newly construction or improved detention pond(s) shall be performed by, or behalf of, property owner(s) to confirm the design capacity of the detention pond and demonstrate substantial conformance with approved plans.

F. Pollution Prevention/Good Housekeeping for Municipal Operations Goals - The City will operate and maintain a program to train City Public Works employees to identify, prevent and reduce stormwater pollution from municipal properties and facilities including parks and open spaces, public works buildings and maintenance facilities, new construction sites and land disturbances, and stormwater drainage systems. This program includes the following BMP's descriptions and measurable goals:

BMP ID Number E.6.1: Develop a comprehensive pollution prevention plan that identifies items such as: 1) BMPs, 2) management practices and schedules, 3) recycling efforts and 4) areas of concern.

Measurable Goal(s): Develop a pollution plan to prevent or reduce pollutant runoff into the municipal storm sewer.

BMP ID Number E.6.2: Develop training materials (from EPA and KDHE) that will be used to educate staff about pollution prevention and good housekeeping.

Measurable Goal(s): Try to incorporate pollution prevention/good housekeeping techniques into municipal operations.

BMP ID Number E.6.3: Street Sweeping: Maintain a regular schedule of sweeping city streets.

Measurable Goal(s): There are 35 miles of paved city streets. The goal is to sweep all 35 miles at least twice per year.

BMP ID Number E.6.4: Creek and Drainageway Restoration Activities City Parks Dept. staff remove trash, refuse, brush, and debris from local waterways and the MS4.

Measurable Goal(s): There are approx. five miles of creeks and drainageways in the City. We want to clean up two miles each year.

BMP ID Number E.6.5: City Code Sec. 205.180. Pet Waste - Nuisance Abatement: Requires pet owners to remove their pets' feces immediately after being deposited on public property.

Measurable Goal(s): Respond to all complaints of violation of this Code.

BMP ID Number E.6.6: City Code Sec. 210.111. Earth washing on sidewalks. Requires the adjacent property owner to prevent earth or other substances from washing across a sidewalk.

Measurable Goal(s): Respond to all complaints of this code violation.

SECTION III – TMDL's

The City will implement Storm Event Monitoring as required in Part III of their MS4 permit.

Measurable Goal(s): In stream monitoring of streams flowing into and out of the MS4 will determine what, if any, pollutants are being impacted by surface water runoff from the City.

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