

Fairway, Kansas

Stormwater Management Plan



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Federal Permit No. KSR410005

Submitted in Compliance with Kansas Permit No. M-MO34-SU01

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SECTION 1: INTRODUCTION

This document is a Stormwater Management Plan (SMP, or the “Plan”) created to help reduce the discharge of pollutants in stormwater runoff from the Municipal Separate Storm Sewer System (MS4) within regulated areas of Fairway, Kansas (Map of permitted area included in Appendix A). It outlines stormwater program activities, monitoring requirements, reporting requirements, and responsible parties for implementing this work.

This plan was prepared in compliance with Kansas Permit Number M-MO34-SU01 (hereinafter “the permit”) issued to the City by the Kansas Department of Health and Environment (KDHE) to fulfill requirements of the Clean Water Act.

The SMP is designed to:

1. Reduce the discharge of pollutants from the MS4 to the Maximum Extent Practicable (MEP),
2. Implement the Six (6) Minimum Control Measures as listed in Part I Section C of the permit,
 - a. The Six Minimum Control Measures are:
 - i. Public Education and Outreach,
 - ii. Public Participation and Involvement,
 - iii. Illicit Discharge Detection and Elimination,
 - iv. Construction Site Stormwater Runoff Control,
 - v. Post-Construction Stormwater Management in New Development and Redevelopment Projects, and,
 - vi. Pollution Prevention/Good Housekeeping for Municipal Operations.
3. Implement Best Management Practices (BMPs) to reduce to the MEP the discharge of the Total Maximum Daily Load (TMDL) regulated pollutants from the MS4 to the watershed of the impaired stream and/or lake as listed in the Permit.
4. And, satisfy the requirements of the permit, the Clean Water Act, and the Kansas surface water quality statutes and regulations.

Implementation of BMPs consistent with the provisions of the SMP document and this permit constitutes compliance with the standard of reducing pollutants to the Maximum Extent Practicable.

Overall responsibility for coordination of activities outlined in this Plan, and for reporting will be by the Fairway Public Works Department and submitting all documents (Stormwater Management Plan (and updates) and Annual Report) to KDHE.

SECTION 2: SIX MINIMUM CONTROL MEASURES

This section describes the six minimum water quality protection control measures that are required by all MS4 permits. They include the following:

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention/Good Housekeeping for Municipal Operations

2.1 MINIMUM CONTROL MEASURE 1 (MCM 1) - PUBLIC EDUCATION AND OUTREACH

Description

MCM 1 consists of implementing a public education program to inform individuals, businesses, and organizations about the impacts of stormwater discharges on surface water quality and how they can help reduce pollutants in stormwater runoff. This may include distribution of educational materials to the community and/or conducting outreach activities.

Benefit

An informed public increases awareness of water quality issues in both residents and businesses, creates opportunities for the public to take direct action to improve the health and sustainability of their community, and builds support for program goals making initiatives more effective.

Compliance

Compliance with the public education and outreach minimum control measure requires implementation of BMPs in Part I., Section C.1 of the Permit for a minimum of 7 points each year.

A table containing the BMP summary, the measurable goal, the implementation schedule, and points per activity is included in Appendix B: Table 1.

A short description of each planned BMP is included in the table below.

Table 1. Planned BMPs to meet MCM 1 requirements.

BMP ID	BMP Summary	Points per year
P Ed & 0 - 01	Maintain a stormwater webpage for the permittee.	2
P Ed & 0 - 02	Distribute educational materials (either flyers, brochures, catalog mailings, handouts, or e-mails) addressing various pertinent stormwater public education topics.	2
P Ed & 0 - 05	Post the municipality's MS4 permit and SMP document on either the stormwater web page or the municipal webpage.	1

P Ed & 0 - 06	Provide either a stormwater telephone hotline or web based or text message method for public reporting of illicit discharges.	2
	<i>Total points per year</i>	<i>7</i>

2.2 MINIMUM CONTROL MEASURE 2 (MCM 2) - PUBLIC INVOLVEMENT AND PARTICIPATION

Description

This minimum control consists of creating opportunities for individuals and organizations to provide public comment and recommendations regarding BMPs and measurable goals and participate in the development and implementation of BMPs to reduce the contamination of stormwater. This program must also comply with state and local public notice requirements.

Benefit

The goal of the stormwater management plan is to improve water quality in local lakes and rivers, which provides benefits to the entire community. As such, the community deserves to have an opportunity to voice opinions on the content of the plan. Further, input into decisions builds support for and ownership in outcomes. MCM 2 also provides opportunity to the community to participate in activities, such as park or stream bank clean-up events, that help to remove pollutants from the MS4.

Compliance

Compliance with the public involvement and participation minimum control measure requires implementation of BMPs in Part I., Section C.2 of the Permit for a minimum of 8 points each year.

A table containing the BMP summary, the measurable goal, the implementation schedule, and points per activity is included in Appendix B: Table 2.

A short description of each planned BMP is included in the table below.

Table 2. Planned BMPs to meet MCM 2 requirements

BMP ID	BMP Summary	Points per year
P I/P - 03	Hold park or stream bank clean-up events for public volunteers to aid municipal staff in removing trash, debris, or pollutant sources from the selected clean-up area.	3
P I/P - 05	Provide at least two events for residents to engage in cleanup activities and improve water quality in the municipality.	3
P I/P - 06	Establish a program to encourage residents to install stormwater treatment best management practices on their property.	2
	<i>Total points per year</i>	8

2.3 MINIMUM CONTROL MEASURE 3 (MCM 3) - ILLICIT DISCHARGE DETECTION AND ELIMINATION

Description

This minimum control consists of developing, implementing, and enforcing a program to detect and eliminate illicit wastewater discharges or other non-stormwater discharges into the storm sewer system. KDHE requires this program to include, at a minimum:

- Developing a storm sewer system map of the permitted MS4 showing the location of all outfalls, either pipes or open channel drainage, and showing the names and locations of all streams or lakes that receive discharges from those outfalls.
- Enacting and enforcing an ordinance or resolutions to prohibit non-stormwater discharges into the storm sewer system. The City of Fairway passed pollution prevention regulations Ordinance 1384 September 11, 2006 to regulate unlawful discharges into streams and the storm drain system.
- Informing public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.
- Developing and implementing a plan to detect and address prohibited non-stormwater discharges.

Benefit

Direct discharges of waste streams can present significant localized impacts to both public health and the environment. Developing legal, technical, and educational means to eliminate illicit discharges provides direct benefits to water quality, the environment, and public health.

Compliance

Compliance with the illicit discharge detection and elimination minimum control measure requires implementation of BMPs in Part I., Section C.3 of the Permit for a minimum of 8 points each year.

A table containing the BMP summary, the measurable goal, the implementation schedule, and points per activity is included in Appendix B: Table 3.

A short description of each planned BMP is included in the table below.

Table 3. Planned BMPs to meet MCM 3 requirements

BMP ID	BMP Summary	Points per year
ID D & E - 03	Develop a spill response plan and, if appropriate, coordinate emergency response with other agencies or organizations.	2

ID D & E - 04	Implement a program to evaluate MS4 outfalls to identify illicit discharges. Inspect at least 5% of the known MS4 outfalls during a calendar year and evaluate the ones which have dry weather discharges. Evaluate the water quality of the dry weather discharges to recognize non stormwater contributions and trace the source of any illicit discharge.	1
IDD&E - 05	Distribute a letter (or flier) and/or e-mail along with a press release from a municipal official with the intent of reaching every resident and business in the MS4 permit area. The distributed documents shall provide information on how to avoid illicit discharges to the MS4, i.e., proper disposal methods for common substances or materials often discharged illicitly. Provide a link to the municipal website where applicable ordinances and disposal guidance are posted.	2
ID D & E - 07	Implement a Household Hazardous Waste Collection Program (HHWCP) or document others have implemented such a program to provide such service to all property owners or residents located within the permit area.	3
	<i>Total points per year</i>	<i>8</i>

2.4 MINIMUM CONTROL MEASURE 4 (MCM 4) - CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Description

This minimum control includes developing, implementing, and enforcing a program to reduce pollutants in any stormwater runoff to the MS4 for construction sites disturbing one acre or more, including areas that are less than one acre but are part of a larger common plan for development that disturbs one or more acre. KDHE requires this program to include:

- Where permittees have the authority to do so, ordinances or resolutions shall be enacted to require erosion and sediment controls, as well as sanctions to ensure compliance. The City of Fairway passed erosion and sediment control regulations Ordinance 1409 on September 10, 2007 to regulate runoff pollution from active construction sites disturbing more than one acre.
- Requirements for construction site owners or operators to implement erosion and sediment control BMPs.
- Requirements for construction site owners or operators to control waste at construction sites that are likely to cause adverse impacts to water quality.
- Procedures for site plan review which incorporate consideration of potential water quality impacts.
- Procedures for receipt and consideration of information submitted by the public.
- Procedures for site inspection and enforcement of control measures.

Benefit

If left uncontrolled, land disturbance activities can generate significant loads of sediment which can impact both adjoining properties and downstream water bodies. Fortunately, effective controls are easy and cost-effective to implement.

Compliance

Compliance with the construction site stormwater runoff control minimum control measure requires implementation of BMPs in Part I., Section C.4 of the Permit for a minimum 13 points each year.

A table containing the BMP summary, the measurable goal, the implementation schedule, and points per activity is included in Appendix B: Table 4.

A short description of each planned BMP is included in the table below.

Table 4. Planned BMPs to meet MCM 4 requirements

BMP ID	BMP Summary	Points
CS SR C - 01	Implement a requirement for a Soil Erosion and Sediment Control (SESC) Plan for any land Disturbance sites which are either equal to or greater than 1 acre or for which there is construction activity disturbing less than one acre which is part of a larger common plan of development or sale that in total disturbs one acre or more.	2
CS SR C - 02	Develop and adopt a design manual for erosion and sediment control BMPs which are required to be used on sites which will be disturbed and are either equal to or greater than 1 acre or for which there is construction activity disturbing less than one acre which is part of a larger common plan of development or sale that in total disturbs one acre or more.	2
CS SR C - 03	Provide access to at least one training class for contractors, developers or others involved with land disturbance projects which provides training on requirements for a Stormwater Pollution Prevention Plan (SWP2 Plan) and implementation of appropriate BMPs.	3
CS SR C - 04	Develop a site plan review process which considers potential water quality impacts which may occur during construction as well as post construction impacts.	2
CS SR C - 05	Establish effective requirements for construction sites to control wastes. Develop through ordinance or other enforceable means requirements for construction site operators or owners to control wastes. At a minimum control shall be imposed to prevent entry into the MS4 for the following wastes: discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste.	2
CS SR C - 06	Develop written procedures for inspection of construction sites. Develop a Stormwater Construction Site Inspection Guide for use by municipal inspectors.	2
	<i>Total points per year</i>	<i>13</i>

2.5 MINIMUM CONTROL MEASURE 5 (MCM 5) - POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

Description

This minimum control requires the development, implementation, and enforcement of a program to address post-construction stormwater runoff controls from both new development and redevelopment sites after development sites disturbing one acre or more, including projects that are less than one acre but are part of a larger common plan for development that disturbs one or more acre. KDHE requires the program to include:

- For permittees that have the authority, ordinances or resolutions to address post-construction runoff from new development and redevelopment projects to the extent allowable under state and local law.
- BMPs to prevent or minimize adverse water quality impacts.
- Strategies which include a combination of structural and/or non-structural BMPs appropriate for the municipality.
- Means to ensure adequate long-term operation and maintenance of BMPs.

Benefit

Conversion of native landscape to developed landscape increases both the volume of runoff and pollutant loads in stormwater. The consequences can include erosion, flooding, and pollution, impacting both downstream property owners and public infrastructure. Stormwater controls included in development sites can help reduce impacts and costs to both private property owners and the public.

Compliance

Compliance with the post-construction stormwater management in new development and redevelopment minimum control measure requires implementation of BMPs in Part I., Section C.5 of the Permit for a minimum of 7 points each year.

A table containing the BMP summary, the measurable goal, the implementation schedule, and points per activity is included in Appendix B: Table 5.

A short description of each planned BMP is included in the table below.

Table 5. Planned BMPs to meet MCM 5 requirements

BMP ID	BMP Summary	Points
P-C SM - 01	Develop and adopt a custom design manual for Post-Construction Stormwater Management which specifies various structural BMPs required for new development and re-development construction sites which are greater than 1 acre or for where there is construction activity disturbing less than one acre which is part of a larger common plan of development or sale that in total disturbs one acre or more. Alternatively, adopt and implement the APWA 5600 Stormwater Design Criteria and the MARC/APWA BMP Manual.	5
P-C S M - 05	Develop and implement a program for inspection of permittee owned structural BMPs which includes implementation of needed maintenance to ensure long-term operation of the BMPs	2
	<i>Total points per year</i>	<i>7</i>

2.6 MINIMUM CONTROL MEASURE 6 (MCM 6) - POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Description

MCM 6 requires the development and implementation of an operation and maintenance and training program to reduce and prevent stormwater pollution from public facility operations such as park and open space maintenance, fleet and building maintenance, new construction and land disturbance, and stormwater system maintenance.

Benefit

Leading by example on public facilities and projects provides an opportunity to demonstrate and teach proper techniques to other landowners, and it is available on a routine and ongoing basis.

Compliance

Compliance with the post-construction stormwater management in new development and redevelopment minimum control measure requires implementation of BMPs in Part I., Section C.5 of the Permit for a minimum 6 points each year.

A table containing the BMP summary, the measurable goal, the implementation schedule, and points per activity is included in Appendix B: Table 6.

A short description of each planned BMP is included in the table below.

Table 6. Planned BMPs to meet MCM 6 requirements.

BMP ID	BMP Summary	Points
P P/G H - 04	Implement a program, with guidance to municipal staff or third-party contractors, to ensure any municipal vehicle or other mechanical equipment washing is conducted in a manner which ensures the wash water is disposed of in the sanitary sewer or otherwise receives proper treatment prior to discharge to the environment.	1
P P/G H - 05	Implement a program for street sweeping in which the street sweepings are collected and disposed of properly or recycled/reused if possible.	2
P P/G H - 06	Develop an employee training program to ensure permittee's staff understand what actions they can take in the workplace to minimize stormwater pollution.	1
P P/G H - 08	Develop, implement and keep updated an online storm sewer map accessible to the public.	2
	<i>Total points per year</i>	6

SECTION 5: Permit Compliance Activities and Schedules

KDHE provides an annual report template each year. An executive summary containing questions by KDHE are included. The executive summary topics can change any year. The annual reports are due by February 28 each year and submitted via KEIMS.

SECTION 6: Modifications to the Stormwater Management Plan

This SMP will be evaluated annually and modifications to the Plan, if any, will be submitted with the annual report.

For minor BMPs modifications/replacement: Within 60 days of a determination by the permittee or date of written notification from KDHE, the permittee shall modify the BMP if modifications are needed to maintain a program in compliance with this permit.

For major BMP modifications/replacement: These major modifications are defined as ones which normally take more than 60 days to construct and/or implement. Within 60 days of a determination by the permittee or date of notification from KDHE, the permittee shall provide a plan and schedule for the update/replacement of the BMP. The plan and schedule are subject to KDHE approval.

Appendix A

MAP

Appendix B