

**KANSAS STORMWATER 2016 ANNUAL REPORT FORM  
FOR MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)**

Check box if  
this is a new name,  
address, phone, etc.

Permittee Information

Permittee (Agency Name) Mailing Address 1: City of Fairway, KS

Mailing Address 2: 4717 Roe Parkway

City: Roeland Park

State: Kansas

Zip Code: 66205

MS4 Program Contact Person: Bill Stogsdill

Contact E-Mail Address: bstogsdill@fairwaykansas.org

Contact Phone Number: (913) 722-2822

Construction Issues Contact Person: Chris Mann

Contact E-Mail Address: cmann@fairwaykansas.org

Contact Phone Number: (913) 722-2822

Kansas Permit Number: M-Mo34-SU-01

(Example) M – MC21 - SU01

Reporting Period covers activities from January 1, 2016 through December 31, 2016.

This annual report must be submitted to the Kansas Department of Health and Environment (KDHE) by February 28, 2017. This annual report must be submitted as a word or PDF file to KDHE on a standard compact disk (CD). A paper copy of the report may, in addition to the CD, be submitted if the permittee so desires but is not required. **In addition, provide the current copy of the Stormwater Management Program (SMP) Document as a word or PDF file on the CD.**

## **B. Executive Summary**

Append an executive summary to this report which briefly covers the major aspects of the MS4 stormwater management program enacted during the year. In completing the executive summary, the preparer should address the following questions:

1. Were there any aspects of the program that appeared especially effective at reducing pollutants in your stormwater discharge?
2. Were there any aspects of the program that provided unsatisfactory results?
3. What was the most successful part of the program?
4. What was the most challenging aspect of the program?
5. Describe any City/County area MS4 clean-ups and the participation.
6. Describe the elected officials' participation in the stormwater pollution elimination.
7. Describe the collaboration with other organizations to eliminate stormwater pollution.
8. If an audit/inspection of your MS4 program was conducted by EPA or KDHE during the year, list the items the audit/inspection report identified as required changes and provide a narrative explanation of how the changes were implemented or explain the plan to implement the changes and identify a target date for final implementation.

The executive summary does not need to be extensive and detailed. It is anticipated the executive summaries will range from one half of a page to two pages in length depending on the scope of the program.

**C. Stormwater Management Program**

Place a check mark in the appropriate box.

- |   | Yes                                 | No                                  | Not Applicable                      |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Has the Stormwater Management Program (SMP) been developed?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Has the SMP been modified during this reporting period?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 3. If the answer to question 2 above was "yes", has the modified SMP been submitted to KDHE for approval? | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

If the answer to item 3 is "No" a copy of the modified SMP must be submitted with this annual report. If it is anticipated a measurable goal cannot be met in the next year the SMP should be modified and submitted to KDHE for approval. The modifications may include different BMPs and/or revised goals to avoid being in a position of non-compliance.

**D. Total Maximum Daily Load (TMDL) Best Management Practices**

Place a check mark in the appropriate box.

- |  | Yes                      | No                       | Not Applicable                      |
|--|--------------------------|--------------------------|-------------------------------------|
| 1. Were any best management practices (BMPs) intended to attenuate the discharge of TMDL regulated pollutants implemented? See your permit to determine if TMDL regulated pollutants are listed for the receiving stream affected by your stormwater system. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. List all of the BMPs intended to attenuate the discharge of TMDL regulated pollutants as identified in the SMP and provide the requested information on the following table on the following pages.   |                          |                          |                                     |

**D. Total Maximum Daily Load (TMDL) Best Management Practices (Table)**

BMP ID Number	Brief BMP Description	Regulated TMDL Parameter	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<b>EROSION AND SEDIMENT CONTROL:</b> Review plans, issue permits, track violations and enforcements measures.	Sediment	Number of violations  Enforcement measures Documented	283 Inspections  116 Failures  All corrected by re-inspect time
	<b>EDUCATION EFFORTS FOCUSED ON LAWN AND LANDSCAPE CARE:</b> Education efforts focused on informing the homeowner of best management practices for fertilizer and management of yard waste.	Nutrients	Educational efforts and number reached	Multi-media (print, online, and social) messaging focused on proper management of lawns and landscapes with emphasis on protecting water quality: Over 1 million impressions: (more detail in MCM#1 table).  Healthy Yards Expo: Approximately 1000 attendees.
	<b>FREE SOIL TESTING FOR RESIDENTS:</b> Educate residents that applying fertilizer without a current soil test can result in over application and excessive nutrient runoff.	Nutrients	Number of soil tests  Education received with reports and through marketing efforts for free soil test opportunity.	995 soil tests county-wide-- 767 residential and 228 agricultural <b>Residential by City</b> <ul style="list-style-type: none"> <li>• Leawood-94</li> <li>• Lenexa-79</li> <li>• Mission-49</li> <li>• Olathe-136</li> <li>• Overland Park-194</li> <li>• Prairie Village-44</li> <li>• Shawnee—114</li> </ul> Participants receive a custom report with recommended rates of application and proper timing. As well as a general stormwater quality awareness pamphlet educating homeowners on lawn and garden best management practices.

	<p><b>PET WASTE BAG DISPENSERS:</b> Installed in city/county parks encouraging pet owners to pick up after pets.</p>	Bacteria	<p>Number of dispensers Number bags used.</p>	<p>Dispensers installed and used at City Park</p> <p>Johnson County Parks and Recreation maintains 36 dispensers in 8 parks across the County. Approximately 260,000 pet waste bags were used in the park system during 2016. The following is a break-out of dispensers and bags used per park.</p> <ul style="list-style-type: none"> <li>• Antioch Park (3 dispensers/ 8,000 bags)</li> <li>• Kill Creek Park (7 dispensers/10,000 bags)</li> <li>• Shawnee Mission Park (8 dispensers/90,000 bags)</li> <li>• Streamway Park System (3 dispensers/3,000 bags)</li> <li>• Heritage Park (8 dispensers/ 84,000 bags)</li> <li>• Stoll Park (4 dispensers/ 60,000 bags)</li> <li>• Stilwell Community Park (2 dispensers/ 3000 bags)</li> <li>• Wilderness Trail (1 dispenser/ 3000 bags)</li> </ul>
	<p><b>SEPTIC SYSTEM INSPECTON PROGRAM:</b> Johnson County Department of Health and Environment staff performs inspections of all on-site sewer systems at construction and resale of property.</p> <p>These numbers are a county-wide representation (except the city of Overland Park).</p>	Bacteria	<p>Number of inspections</p> <p>Number of soil profile analysis</p> <p>Number of required repairs</p>	<p>287 residential inspections (required on resale of property) 305 commercial inspections (conducted annually)</p> <p>92 soil profiles completed</p> <p>106 minor repairs completed</p> <p>90 major repair permits issued for systems that were replaced as a result of a failed inspection.</p>

			Number of permits issued for new construction	64 permits issued for new construction
			Number of decommissioning	271 septic tank decommissioning (Gardner Lake sanitary sewer connection project)

**E. Stormwater Management Program Requirements (Six Minimum Control Measures)**

**1. Public Education and Outreach (Table)**

List all of the public education and outreach BMPs as identified in the SMP and provide the requested information in the following table. (List presentations & media)

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<p><b>Public Education/Outreach:</b> The city of Fairway, KS partners with the Johnson County Stormwater Management Program (JCSMP) to conduct stormwater education and outreach on a county-wide basis. The JCSMP also partners with Johnson County K-State Extension (KSE) and the Mid-America Regional Council (MARC) for some aspects of public education and outreach--including print media, radio and television, social media, websites, presentations and events.</p>		
	<p><b>JCSMP Public Ed/Outreach: Print media:</b></p>	<p>Type and number of materials distributed</p>	<p><b>Johnson County Magazine:</b> Distribution to 225,000 households in Johnson County for the Spring and Fall issues. A ½ page informational advertisement was included in both issues of the magazine. Both advertisements focused on season appropriate proper lawn and landscape care practices to protect water quality. 1,800 City of Fairway, KS households received these mailings.</p>

	<b>JCSMP Print media (cont.)</b>		<b>Free Soil Test Marketing:</b> Ads appeared in the Kansas City Star newspaper advertising free soil test opportunity and included education on proper fertilizing to reduce stormwater pollution. Sixteen ads were published reaching a potential of 56,000 each run for a total potential reach of 896,000.
	<b>JCSMP Print media (cont.)</b>		<b>KC Star Grow section column:</b> Dennis Patton, Johnson County K-State Extension horticulture agent writes a regular column for the KC Star Grow section. Through KSE's agreement with the JCSMP, one column in 2016 was dedicated entirely to water quality related to lawn and landscape management. The KC Star reports a potential audience of 75,000 for the print version and over one million online page views.
	<b>JCSMP Print media (cont.)</b>		<b>Billing Insert in Johnson County Wastewater (JCW) bills:</b> An educational insert for protecting water quality and properly managing yard waste was included in the fall billing cycle for 143,000 JCW customers.
	<b>Television</b>	Content and reach	<b>News story on KSHB News:</b> Dennis Patton, Johnson County K-State Extension agent was featured in a news story on mulch mowing leaves during the fall that aired on Nov 4, 2016 and was available on the KSHB website.

	<p><b>Social Media and Online media:</b> The JCSMP partnered with the Johnson County Department of Health and Environment (JCDHE) and with K-State Extension Johnson County for social media and other web-based messaging.</p>	<p>Number and description of posts and engagement (likes, shares, etc.) by public.</p>	<p>Outreach messages were posted to Facebook and Twitter from JoCoRecycles, which is the social media identifier for the JCDHE. Spring campaign included 3 posts on both Facebook and Twitter that focused on blowing grass clippings off hard surfaces, mulch mowing, and composting. The fall campaign included four posts on each outlet on blowing leaves off hard surfaces, composting, mulch mowing leaves, and keeping leaves out of storm drains. All posts included paying for increased reach were Johnson County users were targeted specifically. The combined impressions from Facebook and Twitter was approximately 200,000 impressions with an average engagement rate (likes, shares, comments) of 3%.</p> <p>The JCDHE yard waste website was visited 3,800 times during the social media campaigns. During the fall campaign, <i>85% of these were new users who hadn't visited the page before.</i></p> <p>The JCSMP also partnered with K-State Extension Johnson County for water quality related messaging on Facebook. There were 3 posts throughout the year relating to water quality. They were focused</p>
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			<p>on soil testing and proper fertilization techniques. This content reached approximately 36,000 individuals.</p>
	<p><b>Presentations and Events</b></p>	<p>Activities and number of participants</p>	<p><b>Healthy Yards Expo:</b> This annual event is a partnership between the JCSMP, Johnson County K-State Extension, and the cities of Lenexa, Overland Park, and Shawnee that hosts 20 vendors who promote best management practices for residential lawn care management. Eleven presentations with a total of 217 attendees were also given during the day on various healthy yard topics. This year's event also featured a native plant giveaway. Native plants were given to 300 attendees. The event overall had 950 attendees.</p>
	<p><b>Presentations and Events</b></p>	<p>Activities and number of participants</p>	<p><b>Water Quality Education Grant Program:</b> Funding for the grant program for non-profit organizations and educators for water quality education programming is provided by the JCSMP. The Blue River Watershed Association, Bridging the Gap, Friends of the Kaw, Stone</p>

			<p>Lion Puppet Theater, and the Olathe North High School Geosciences program received grants this year. The grant program enables a variety of outlets for education opportunities across Johnson County that engages with a range of age-groups. The following is a summary of presentations and participation numbers.</p> <ul style="list-style-type: none"><li>• Classroom instruction: 40 classes; 1,100 middle and high school students; 3 Kindergarten classes-70 students.</li><li>• Presentations to Businesses: 7 presentations: 93 adults</li><li>• Stone Lion Puppet Theater performances: 30 performances; 8300 elementary age students</li><li>• Stone Lion Puppet Theater "Splash Carnivale" family water quality event:3 schools; 1000 attendees (families)</li><li>• Stream Clean Ups: 15 stream clean up events were held by 3 organizations with a total of 883 participants who collected a combined 247 bags of litter.</li><li>• Rain Barrel Workshops: 3 workshops held with a total of 163 participants who built a total of rain barrels 177 rain barrels to be used at their residences.</li><li>• Rain Garden Workshop: 41 people attended an educational presentation on rain gardens. 25 of these attendees won rain garden plants and an opportunity to discuss placement and installation with expert volunteers.</li></ul>
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	<b>Annual Program Review:</b> Assess applicability of BMPs for MCM1 in SMP	Review and revise as necessary	No Revisions Required

## 2. Public Involvement and Participation (Table)

List all of the public involvement and participation BMPs as identified in the SMP and provide the requested information in the following table. (List all associations & partnerships)

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<p><b>Mechanism for Public Comment on the community's stormwater management plans and regulations for each community.</b> Post annual reports and current stormwater management plan on website or other publicly available mechanism. Provide opportunity for the public to comment on the community's stormwater management plans and regulations.</p>	<p>Documents published in appropriate location</p> <p>Public review and comment allowed</p>	<p>Will be placed on City's Website</p>
	<p><b>Comply with Public Notice Provisions:</b> Comply with applicable state and local public notice requirements when developing and revising the Stormwater Management Plan and Stormwater regulations. Provide opportunity for public comment and provide feedback to public comment as required.</p>	<p>Stormwater Management plans advertised when developed and as revisions are made.</p> <p>Comments addressed</p>	<p>Appropriate review procedures in place for SMP</p>

**2. Public Involvement and Participation (Table)** (continued)

List all of the public involvement and participation BMPs as identified in the SMP and provide the requested information in the following table. (List all associations & partnerships)

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<p><b>Promote Community Involvement in Stormwater Quality Awareness and Solutions:</b> The JCSMP provided funding on behalf of all MS4 permitted cities in Johnson County for the following public participation programs:</p> <p>a) Soil testing program: All residents of Johnson County are eligible for free soil testing through the Johnson County K-State Extension office.</p> <p>b) Stream clean-ups:</p>	<p>Number of soil tests conducted and water quality education provided</p> <p>Number of participants and volume of litter removed from area streams</p>	<p>Soil test results are provided to residents along with educational material for best management practices for fertilizer application and lawn care. 995 soil tests were conducted county-wide in 2016. Of these, 767 were residential and 228 were agricultural.</p> <p>Residential by City</p> <ul style="list-style-type: none"> <li>• Leawood-94</li> <li>• Lenexa-79</li> <li>• Mission-49</li> <li>• Olathe-136</li> <li>• Overland Park-194</li> <li>• Prairie Village-44</li> <li>• Shawnee—114</li> </ul> <p>With funding provided by the JCSMP to the water quality education grant program, three non-profit organizations (Bridging the Gap, the Blue River Watershed Association, and the Friends of the Kaw) held 19 stream clean up events at various locations within the county with a total of 1,167 participants who collected a combined 3,748 pounds of litter.</p>

	<p>c) Rain barrel and rain garden workshops:</p>	<p>Number of participants in educational activities and number of rain barrels and rain gardens installed.</p>	<p>Through the JCSMP water quality education grant program, stormwater education classes were led by students from Olathe North High School and were supervised by the lead teacher for the district's geosciences program. The rain barrel classes were attended by 160 residents and the rain garden class was attended by 41 adults. 177 rain barrels were distributed and 25 rain garden kits were distributed to presentation attendees.</p>

**3. Illicit Discharge Detection and Elimination**

Place a check mark in the appropriate box.

Explain each item below in following table.

	Yes	No	Not Applicable
1. Has a program/plan been developed and is it presently implemented to detect and address illicit/prohibited discharges into the MS4?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has a map of the MS4 been developed, showing the location of all outfalls, either pipes or open channel drainage, showing names and location of all streams or lakes receiving discharges from the outfalls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. The permit requires the permittee enact ordinances Resolutions or regulations. Has an ordinances, resolutions or regulations to prohibit non-stormwater discharges into the storm system been enacted? Effective Date: <u>9/11/06</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has the ordinance, resolution or regulation been modified? Effective Date: NO			
4. Has the ordinance, resolution or regulation and/or modification been submitted to KDHE for approval?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Have public employees, business, and the general public been informed of the hazards associated with illegal discharges and improper disposal of waste?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Are stormwater inlets & detention ponds inspected for illicit discharges and debris?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Are restaurant waste grease areas inspected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Are septic systems inspected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Are debris, yard waste and dead animals removed from the streets when noticed by employees or reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Is there a yard waste management program?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Are snow removal activities inspected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. List all of the illicit discharge detection and elimination BMPs as identified in the SMP and provide the requested information in the table on the following pages.			

## 3. Illicit Discharge Detection and Elimination (Table)

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<b>Implement IDDE Plan:</b> Implement plan to detect, identify the source, and eliminate non-stormwater discharges to the MS4, including passing regulations prohibiting non-stormwater discharges to the MS4.	Plan Implemented  Actions Documented	Yes  Yes
	<b>Storm Sewer System Map:</b> Maintain updated map of MS4 showing storm sewer outfalls and names and location of all waters of the US that receive discharges from outfall.	Map updated and submitted to KDHE	No updates for 2016
	<b>HHW Collection:</b> The JCSMP provided supplemental financial assistance to the JCDHE and the city of Olathe's existing HHW Collection programs. This funding allowed for an increase in drop-off appointments at both facilities that would not have otherwise been possible. (These numbers represent the previous year's annual reporting numbers for the HHW sites which is on the State of Kansas's fiscal year of July 1-June 30)	Number of residents served  Pounds of Hazardous Material collected	14,557 participants county-wide  1,423,159 pounds of hazardous waste collected
	<b>HHW Education:</b> Public education campaign to encourage residents to use the program and importance of proper HHW disposal.	Social media	The Johnson County Department of Health and Environment promotes the HHW program through various media outlets. The JoCoRecycles Facebook page had a reach of 131,000 and 11,000 engagements (likes, shares, comments, and click-throughs to webpages). The Twitter

			page had 76,500 impressions and 3,200 engagements.
	<b>Grease Management Program:</b> Johnson County Wastewater Staff inspects restaurants for proper grease trap interceptor installation and compliance with pump schedule	Number of plan reviews	370 plan reviews
		Number of inspections	123 inspections
	<b>Septic System Inspection Program:</b> Johnson County DHE staff performs inspections of all on-site sewer systems at construction and resale of property	Number of inspections	287 residential inspections (required on resale of property) 305 commercial inspections (conducted annually)
		Number of soil profile analysis	92 soil profiles completed
		Number of required repairs	106 minor repairs completed  90 major repair permits issued for systems that were replaced as a result of a failed inspection.
		Number of permits issued for new construction	64 permits issued for new construction
		Number of septic tanks decommissioned (Gardner Lake sanitary sewer project)	271 septic tank decommissioning

**3. Illicit Discharge Detection and Elimination (Table)** (Continued)

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<b>Annual Program Review:</b> Assess applicability of BMPs for MCM3 in SMP	Review and revise as necessary	No Revisions Required

#### 4. Construction Site Stormwater Runoff Control

Place a check mark in the appropriate box.

Explain each item below in following table.

Yes No Not Applicable

1. The permit requires the permittee to enact ordinances, resolutions or regulations. Has an ordinance, resolutions or regulation to address construction site runoff from new development and redevelopment projects been enacted?

Yes  No  Not Applicable

Effective Date: 9/10/07

2. Has a copy of the ordinance, resolution or regulation been submitted to KDHE as required by the permit?

Yes  No

3. Has a procedure or program been developed requiring construction site owners and/or operators to implement appropriate erosion and sediment control best management practices?

Yes  No

4. Has a procedure or program been developed requiring construction site owners and/or operators to control waste such as discarded building materials, concrete truck washout, chemicals, paint, litter and sanitary waste at construction sites likely to cause adverse impacts to water quality?

Yes  No

5. Has a procedure been developed and implemented requiring site plan review of erosion control and debris container locations incorporating consideration of potential water quality impacts?

Yes  No

6. After review, is a construction site permit issued?

Yes  No

7. Has a procedure been developed for the receipt and consideration of information submitted by the public?

Yes  No

8. Has a procedure been developed and implemented for construction site inspection and enforcement of the control measures?

Yes  No

9. Are construction site inspection and enforcement actions successful?

Yes  No

10. Are site owners and/or operators provided instruction On proper construction site erosion and waste control?

Yes  No

11. List all the construction site stormwater runoff control BMPs as identified in the SMP and provide the requested information in the table on the following pages.

**4. Construction Site Stormwater Runoff Control (Table)**

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	Review regulation and update (if necessary)	Review regulation  Update as necessary	No updates required for 2016
	<b>Inspection and Enforcement:</b> Review Plans, issue permits, track violations and enforcements measures.	Number of violations  Violations and enforcement measures documented	283 Inspections  116 Violations  All corrected by re-inspection
	<b>Receipt of Public Information on Compliance:</b> Provide a mechanism for receipt and consideration of information submitted by the public on construction site compliance.	Number of Reports  Investigation/Actions Documented	0  n/a

4. **Construction Site Stormwater Runoff Control (Table)** (continued)

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<p><b>Contractor Training:</b> Provide education and informational resources for contractors licensed in Johnson County. This year the Johnson County Contractors Licensing Program offered the 8-hour the "ABCs of BMPs" class that instructs contractors on proper erosion and sediment control at construction sites.</p>	Number of individuals trained.	72 attendees
	<p><b>Annual Program Review:</b> Assess applicability of BMPs for MCM4 in SMP</p>	Review and revise as necessary	No update necessary

**5. Post-Construction Site Stormwater Management in New Development and Redevelopment.**

Place a check mark in the appropriate box.

Explain each item below in following table.

Yes                      No

1. The permit requires the permittee to enact a program to address post-construction site stormwater runoff from new development and redevelopment.

The program developed to manage stormwater in new development and redevelopment projects must include the following elements:

- a. Strategies which include a combination of structural and/or Non-structural BMPs,
- b. Measures to ensure adequate long-term operation and maintenance of BMPs,
- c. Site Owner or operator name and telephone number Responsible to ensure adequate long-term operation Maintenance of BMPs,
- d. BMPs to prevent or minimize adverse water impacts.

2. Has a post-construction stormwater runoff program been Implemented?



3. Has post-construction sites been inspected?



4. Have there been post-construction violations?



5. List all the post-construction site stormwater management in new development and redevelopment BMPs as identified in the SMP and provide the requested information in the table on the following pages.

### 5. Post-Construction Site Stormwater Management in New Development and Redevelopment Table

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<p><b>Implement Post-Construction Stormwater Runoff Control Program:</b> Implement program requiring control of stormwater runoff from new development and redevelopment projects that disturb greater than one acre of land, and requirements for long-term maintenance of structural controls. Required elements of this program include.</p> <p><b>a) SITE PLAN REVIEW:</b> Ensure site plans incorporate appropriate post-construction runoff controls designed according to previously adopted standards/design manual.</p> <p><b>b) FINAL CONSTRUCTION INSPECTION:</b> Perform final inspection (or obtain certification from design engineer) to ensure that all post-construction runoff controls were installed according to plans and functioning as designed.</p> <p><b>c) TRACKING SYSTEM:</b> Maintain database (or other system) to track location and contact information of responsible party for all structural post-construction runoff controls</p> <p><b>d) LONG TERM MAINTENANCE:</b> Implement an inspection and enforcement program to ensure adequate long-term maintenance of</p>	<p>Plans Reviewed</p> <p>Number of Construction Inspections</p> <p>Database Updated</p> <p>Number of Maintenance Inspections</p> <p>Number of Violations</p> <p>Enforcement Actions Documented</p>	<p>No New Development</p> <p>None Required</p> <p>N/A</p> <p>Not Required</p> <p>N/A</p> <p>N/A</p> <p>None Required</p>

	structural post-construction runoff controls.		
	<b>Annual Program Review:</b> Assess applicability of BMPs for MCM5 in SMP	Review and revise as necessary	No Revisions required

**6. Municipal Pollution Prevention/Housekeeping.**

Place a check mark in the appropriate box.

Explain each item below in following table.

Yes                      No

- |   |                                     |                          |
|---|-------------------------------------|--------------------------|
| 1. The permit requires the permittee to enact a program to address Pollution Prevention/Good Housekeeping for Municipal Operations. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Has an operation & maintenance program to reduce Pollutant runoff and an audits /inspection program been adopted?                | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Has a municipal employee training program been established?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Are oil, hazardous wastes, chemicals and municipal debris properly deposited?  |                                     |                          |
| 5. Are snow and ice removal material and chemicals properly managed to prevent runoff?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Are municipal streets swept on a regular basis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are municipal stormwater inlets and drains inspected and cleaned?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Are municipal snow piles controlled drainage to prevent runoff pollution?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

List all the Municipal Pollution Prevention/Housekeeping BMPs as identified in the SMP and provide the requested information on the table on the following pages.

**7. PHASE I OPERATORS ONLY - Monitoring Industrial and High Risk Run-off**

Place a check mark in the appropriate box.

Yes                      No

- |  |                          |                          |
|--|--------------------------|--------------------------|
| 1. Has the permittee developed and maintained a list of the municipal industrial facilities contributing to the pollutant loading to the municipal storm sewer system? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Has at least two municipal industrial facilities on the list had inspection and sampling conducted?   | <input type="checkbox"/> | <input type="checkbox"/> |

If the answer to items 1 and 2 is "No" provide a statement on the Phase I operator form Appendix B as to why monitoring and control has not occurred.

Complete Monitoring form in Appendix B.



**6. Municipal Pollution Prevention/Housekeeping Table**

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<p><b>Reduce Pollutant Runoff From Municipal Operations:</b> Required elements of this program include.</p> <p><b>STORMWATER MANAGEMENT AUDITS:</b> Periodically audit community-owned facility(s) and/or community operations that may potentially impact surface water through the MS4.</p> <p><b>STORMWATER POLLUTION PREVENTION PLANS:</b> Develop SWPPP(s) for facility(s) and/or operation(s).</p>	<p>Facility Name/Operation Date of last audit</p> <p>SWPPP(s) completed and on file</p>	<p>Public Works, Pool, Police Dept.</p> <p>Yes</p>
	<p><b>Municipal Employee Training:</b> Implement training program for employees and document training.</p> <p><b>a) STORMWATER TRAINING VIDEOS:</b> The videos Rain Check and Stormwatch are available through the JCSMP. The video focuses on reducing stormwater pollution from municipal facilities and activities. A quiz and employee training tracking form is provided along with the video.</p>	<p>Number of city attendees</p>	<p>4</p>

**7. Municipal Pollution Prevention/Housekeeping Table**

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<b>Annual Program Review:</b> Assess applicability of BMPs for MCM6 in SMP	Review and revise as necessary	No Revisions Required

## F. Recordkeeping and Reporting

Attach a report which addresses the following subjects:

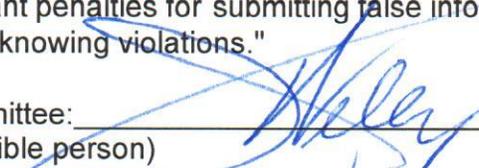
1. A general assessment of the appropriateness of the various BMPs included for each of the major program elements as follows:
  - a. TMDL regulated pollutants (Appendix A contains TMDL Report Forms)
  - b. Public Education and Outreach
  - c. Public Involvement and Participation
  - d. Illicit Discharge Detection and Elimination
  - e. Construction Site Stormwater Runoff Control
  - f. Post-Construction Site Stormwater Management in New Development and Redevelopment
  - g. Pollution Prevention/Good Housekeeping for Municipal Operations

Issues which may be addressed include:

- a. Are the BMPs appropriate for local population?
  - b. Are the BMPs appropriate for the pollution sources?
  - c. Are there specific concerns related to the local receiving waters that may justify a change in BMPs?
2. An assessment of the effectiveness of the BMPs towards achieving the statutory goal of reducing the discharge of pollutants to the Maximum Extent Practicable (MEP).
  3. Provide a summary of results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the SMP.
  4. Provide a summary of the planned changes in stormwater activities which are scheduled to be undertaken during the next annual reporting cycle. This should address the implementation of new BMPs and/or the deletion of BMPs and include a projected schedule for the month or quarter when the BMP will be either implemented or discontinued.
  5. Provide a list of other municipalities/contractors, if any, which will be responsible for implementing any of the program areas of the SMP.

**G. Certification**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Permittee:  Date Signed: 1-31-2017  
(Legally responsible person)

Name (printed): Jerry W. Mayner Title: Mayor

**40 CFR 122.22 Signatories to permit applications and reports.**

(a) Application. All permit applications shall be signed by either a principal executive officer or ranking elected official.

All reports required by permits, and other information requested by the Director shall be signed by a person described in paragraph (a) of this section, or by a duly authorized representative of that person.

Submit this report to:

**KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT**  
Municipal Programs Section  
1000 SW Jackson Street, Suite 420  
Topeka, Kansas 66612-1367

## B. Executive Summary

Append an executive summary to this report which briefly covers the major aspects of the MS4 stormwater management program enacted during the year. In completing the executive summary, the preparer should address the following questions:

1. Were there any aspects of the program that appeared especially effective at reducing pollutants in your stormwater discharge?
2. Were there any aspects of the program that provided unsatisfactory results?
3. What was the most successful part of the program?
4. What was the most challenging aspect of the program?
5. Describe any City/County area MS4 clean-ups and the participation.
6. Describe the elected officials' participation in the stormwater pollution elimination.
7. Describe the collaboration with other organizations to eliminate stormwater pollution.
8. If an audit/inspection of your MS4 program was conducted by EPA or KDHE during the year, list the items the audit/inspection report identified as required changes and provide a narrative explanation of how the changes were implemented or explain the plan to implement the changes and identify a target date for final implementation.

The executive summary does not need to be extensive and detailed. It is anticipated the executive summaries will range from one half of a page to two pages in length depending on the scope of the program.

The City of Fairway, KS partnered with the Johnson County Stormwater Management Program (JCSMP), who coordinated a cooperative approach for permitted Johnson County cities to help meet selected minimum control measures mandated in the NPDES Phase 2 MS4 permits. In particular, the JCSMP coordinates efforts for best management practices (BMPs) under minimum control measures 1 and 2, but have also assisted with MCM's 3-6 as well. The coordinated approach through this partnership has proved to be cost effective and reduces redundancy amongst the cities in Johnson County.

- 1) Due to the nature of non-point source pollution, it is difficult to say that any aspect of the program was the most effective at reducing pollutants in stormwater runoff. However, we believe that our efforts under public education (MCM 1) and public participation (MCM 2) that were focused on responsible lawn care practices and anti-littering were very successful at reaching a broad number of residents with messaging that hopefully will encourage behavior change or, at the very least, increase awareness. *An*

*estimated 2 million impressions were generated through print media, events, social media and other web-based outreach countywide in 2016.*

- 2) None of the program elements were unsatisfactory
- 3) Public education and outreach efforts through the multiple approaches from the city and county levels were successful. The ability to do outreach through multiple outlets will hopefully continue to increase the public's awareness of water quality issues and how they can help. Additionally, the partnership with K-State Extension promotes water quality messaging where surveys indicate the public seeks information regarding their lawn and garden care and therefore targeting a source for excess nutrients in urban streams.
- 4) The most challenging aspect of this program has always been drawing a correlation between activities in the SMP to actual improvements in water quality. For example, we reached millions of people with our public education and outreach campaigns, but there is no direct way to attribute this to actual pollutant reduction numbers.
- 5) The City of Fairway routinely removes leaves and debris from storm boxes prior to and after rain events. Additionally there were multiple stream clean-up events held by 3 organizations who received grant funding from the JCSMP. The excel spreadsheet "Litter\_clean-up\_information" attached to the email outlines litter clean-ups by location.
- 6) Elected officials have participated by volunteering at our HHW collections as well as passing our required ordinances and stormwater management plans.
- 7) The City of Fairway, KS partners with the Johnson County Stormwater Management Program, which partners on behalf of Johnson County cities with Johnson County K-State Extension, Mid-America Regional Council Water Quality Education Committee, Bridging the Gap, Blue River Watershed Association, Friends of the Kaw, Olathe North High School, Stonelion Puppet Theater, the city of Olathe Public Works (for Household Hazardous Waste Collection), the Johnson County Department of Health and Environment, and Johnson County Wastewater.

## **F. Recordkeeping and Reporting**

Attach a report which addresses the following subjects:

1. A general assessment of the appropriateness of the various BMPs included for each of the major program elements as follows:

Issues which may be addressed include:

- Are the BMPs appropriate for local population?
- Are the BMPs appropriate for the pollution sources?
- Are there specific concerns related to the local receiving waters that may justify a change in BMPs?

- a. **TMDL regulated pollutants**

No TMDL's required by our permit

- b. **Public Education and Outreach**

In addition to any city specific BMPs the JCSMP sponsored a variety of BMP's on behalf of all MS4 permitted cities in Johnson County. The public education and outreach BMP's ranged from traditional face-to-face education in the classroom, at community events, and expos to more general print, social media, and web-based outreach. In all, an estimated 2 million impressions were generated from these activities. We feel these BMP's are appropriate for this MCM and the local populations. Coordinating efforts at the county and regional level has led to consistent and repeated messaging and will hopefully be more effective at influencing behavior changes. Additionally, our partnership with K-State Extension promotes water quality messaging where the public seeks information regarding their lawn and garden care therefore targeting the likely source for excess nutrients in urban streams. While stormwater pollution remains a concern for receiving waters, it does not justify a change in these BMPs at this time.

- c. **Public Involvement and Participation**

In addition to any city specific BMPs the JCSMP sponsored a variety of activities on behalf of all MS4 permitted cities in Johnson County. The public participation and involvement BMP's included the free soil testing program for Johnson County residents in partnership with the Johnson County K-State Extension Program. We feel these BMP's are appropriate for this MCM and the local populations. Residents who take part in the free soil testing program receive a custom report with recommended rates of application and proper

timing as well as education on actions that can be taken on by residents to benefit water quality. Additional public participation activities included litter pick-ups organized by the Blue River Watershed Association, Bridging the Gap, and Friends of the Kaw and sponsored by the Johnson County Stormwater Management Program which engaged residents to take an active role in cleaning up litter pollution in streams and streamside and raised awareness of other potential polluting behaviors. While stormwater pollution remains a concern for receiving waters, it does not justify a change in these BMPs at this time.

**d. Illicit Discharge Detection and Elimination**

The City of Fairway has passed an ordinance to prevent the discharge of pollutants from land and activities into the MS4. The City of Fairway has also implemented a plan to detect, identify, and eliminate non-stormwater discharges into the MS4. In addition to these city specific BMPs the JCSMP sponsored countywide HHW collection activities at Olathe Municipal Services and the Johnson County Household Hazardous Waste Facility. In addition, the Johnson County DHE also performed inspections of septic systems at construction and resale of property. We feel these BMP's are appropriate for this MCM and the local populations. Our IDDE ordinance gives the city the enforcement tools necessary to require responsible parties to eliminate the illicit discharges. The countywide HHW program encourages residents to dispose of HHW properly, thereby reducing illegal dumping. The septic inspection program identifies deficiencies and forces homeowners to bring septic system back into compliance before the property can be sold. While stormwater pollution remains a concern for receiving waters, it does not justify a change in these BMPs at this time.

**e. Construction Site Stormwater Runoff Control**

The City of Fairway conducted 283 Sediment and Erosion Control inspections in 2016 and had 116 failures. All Failures were corrected by the time of re-inspection.

The City of Fairway has passed an ordinance to control the release of pollutants from construction site activities. The City of Fairway has also adopted procedures for construction site inspection and enforcement of control measures. The procedures address preconstruction planning and permitting, recommended inspection frequency, recordkeeping and reporting,

enforcement response plan, and tips for inspecting construction sites. In addition to these city specific BMP's the Johnson County Contractor Licensing Department offered educational training on proper erosion and sediment controls on construction sites and administered a test to become a Certified Inspector in Johnson County. We feel these BMP's are appropriate for this MCM and the local populations. Our E&SC ordinance gives the city the enforcement tools necessary to require responsible parties to reduce pollution caused by construction activities. While sediment pollution remains a concern for receiving waters, it does not would justify a change in these BMPs at this time.

f. **Post-Construction Site Stormwater Management in New Development and Redevelopment**

The City of Fairway is land locked and has not had any large development requiring post construction runoff inspections.

The City of Fairway has passed an ordinance requiring control of stormwater runoff from new development and redevelopment projects that disturb greater than one acre of land, and requirements for long-term maintenance of structural controls. The City of Fairway has also adopted procedures track the location of all structural controls and the contact information for the person responsible for long-term maintenance. We feel these BMP's are appropriate for this MCM and the local populations. Our ordinance gives the city the enforcement tools necessary to require owners to install and maintain post construction runoff controls. parties to reduce pollution caused by construction activities. There are no concerns for receiving waters that would justify a change in these BMPs.

g. **Pollution Prevention/Good Housekeeping for Municipal Operations**

The City of Fairway has an indoor wash bay connected to a sand oil separator that then drains to the sanitary sewer keeping all water from entering the watershed. It also stores all of its salt indoors preventing runoff.

2. An assessment of the effectiveness of the BMPs towards achieving the statutory goal of reducing the discharge of pollutants to the Maximum Extent Practicable (MEP).

The BMPs were effective toward achieving the statutory goal of reducing the discharge of pollutants to the Maximum Extent Practicable. Particularly effective were:

The cooperative approach Johnson County municipal entities utilized to implement Public Education/Outreach and Public Participation/Involvement was effective to spread stormwater protection messaging. By pooling financial and technical resources within the county and with the region, municipal entities were able to implement consistent educational messages raise awareness of water quality and begin to change behavior. Also, this cooperative effort has extended towards developing and implementing ordinances, policies, and implementing appropriate Best Management Practices that will also have a beneficial impact on water quality in our watersheds. The cooperative approach is important as we tackle inter-jurisdictional challenges posed by addressing TMDLs.

3. Provide a summary of results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the SMP.
4. Provide a summary of the planned changes in stormwater activities which are scheduled to be undertaken during the next annual reporting cycle. This should address the implementation of new BMPs and/or the deletion of BMPs and include a projected schedule for the month or quarter when the BMP will be either implemented or discontinued. Please note a revised SMP should be submitted for KDHE approval if BMPs are revised.

New SWPPP developed for PW facility and enclosed

5. Provide a list of other municipalities/contractors, if any, which will be responsible for implementing any of the program areas of the SMP.

The City of Fairway, KS is ultimately responsible for permit compliance, however assistance with various program areas of the SMP were provided by the following entities:

**TMDL Monitoring:** U.S. Geological Survey, Kansas Water Science Center, JCSMP

**MCM1:** Johnson County K-State Research and Extension, JCSMP, Blue River Watershed Association, Bridging the Gap, Friends of the Kaw, Olathe North High School, Stonelion Puppet Theater, and MARC.

**MCM2:** K-State Research and Extension, Olathe North High School, and JCSMP

**MCM3:** JCSMP, JCDHE, and JCW

**MCM4:** JCSMP, Johnson County Contractor Licensing

**MCM5:**

**MCM6:**

**Record Keeping and Reporting:** Assistance provided by JCSMP

## Attachment A

<b>Clean up location</b>	<b>City</b>	<b>No. of Participants</b>	<b>Lbs of litter</b>	<b>Organization</b>
Gardner	Gardner	4	151	Bridging the Gap
Christa McAuliffe Elementary (15600 W. 83rd St., Lenexa)	Lenexa	68	22	Blue River Watershed Association
Rosehill Elementary (9801 Rosehill Rd., Lenexa)	Lenexa	95	48	Blue River Watershed Association
Sunflower Elementary (8955 Loiret Blvd., Lenexa)	Lenexa	84	21	Blue River Watershed Association
Trailridge Middle School (7500 Quivira, Lenexa)	Lenexa	136	35	Blue River Watershed Association
Turkey Creek (Merriam Brown Memorial Park)	Merriam	18	684	Bridging the Gap
Turkey Creek (Merriam Chatlain Park)	Merriam	13	163	Bridging the Gap
Merriam (Turkey Creek Streamway Trail)	Merriam	10	106	Friends of the Kaw
Indian Creek (Olathe, 127th and Blackbob Rd))	Olathe	12	339	Bridging the Gap
Indian Creek (Olathe, 12512 Shannon Circle)	Olathe	12	175	Bridging the Gap
Little Cedar Creek (Olathe; 135th and K-7)	Olathe	2	21	Friends of the Kaw
Lakewood Middle School (6601 Edgewater Dr., OP)	OP	29	10	Blue River Watershed Association
Oak Park Carpenter (10000 Neiman Rd., OP)	OP	82	25	Blue River Watershed Association
Indian Creek (Overland Park Foxhill Park)	OP	32	814	Blue River Watershed Association
Indian Hills Middle School (6400 Mission Rd., Prairie Village)	Prairie Village	49	17	Blue River Watershed Association
Briarwood Elementary (5300 W 86th St., Prairie Village)	Prairie Village	27	16	Blue River Watershed Association
Hocker Grove Middle School (10400 Johnson Dr., Shawnee)	Shawnee	400	254	Blue River Watershed Association
Old Shawnee Town (Turkey Creek Trib)	Shawnee	13	641	Friends of the Kaw
Clear Creek (at Monticello Trails Middle School, Shawnee)	Shawnee	22	50	Friends of the Kaw
Little Mill Creek (between Pflumm and Cottonwood Dr., Shawnee)	Shawnee	22	115	Friends of the Kaw

## Attachment B

### Annual Septic Report for Johnson County

<b>County Totals:</b>		<b>Unincorporated</b>
Resale Inspections -	287	161
Commercial Inspections -	305	83
Soil Profile Analysis -	92	73
Minor Repairs -	106	54
Septic Tank Decommissioning -	271	248 (Gardner Lake Sewer Project)
Installation Permits Issued -	154	105
(New Construction Permits) -	64	57
(Major Repairs Permits) -	90	48

#### Breakdown by City:

##### **Shawnee:**

Resale Inspections -	63
Commercial Inspections -	89
Soil Profile Analysis -	13
Minor Repairs -	30
Septic Tank Decommissioning -	15
Installation Permits Issued -	25
(New Construction Permits) -	19
(Major Repairs Permits) -	6

##### **Lenexa:**

Resale Inspections -	24
Commercial Inspections -	20
Soil Profile Analysis -	1
Minor Repairs -	7
Septic Tank Decommissioning -	1
Installation Permits Issued -	10
(New Construction Permits) -	0
(Major Repairs Permits) -	10

##### **Olathe:**

Resale Inspections -	33
Commercial Inspections -	94
Soil Profile Analysis -	5
Minor Repairs -	14
Septic Tank Decommissioning -	5
Installation Permits Issued -	12
(New Construction Permits) -	1
(Major Repairs Permits) -	11

##### **Bonner Springs:**

Resale Inspections -	0
Commercial Inspections -	3
Soil Profile Analysis -	0
Minor Repairs -	0
Septic Tank Decommissioning -	0
Installation Permits Issued -	0

(New Construction Permits) - 0  
(Major Repairs Permits) - 0

**Spring Hill:**

Resale Inspections - 0  
Commercial Inspections - 15  
Soil Profile Analysis - 0  
Minor Repairs - 0  
Septic Tank Decommissioning - 1  
Installation Permits Issued - 0  
(New Construction Permits) - 0  
(Major Repairs Permits) - 0

**Merriam:**

Resale Inspections - 2  
Commercial Inspections - 0  
Soil Profile Analysis - 0  
Minor Repairs - 0  
Septic Tank Decommissioning - 1  
Installation Permits Issued - 0  
(New Construction Permits) - 0  
(Major Repairs Permits) - 0

**Mission:**

Resale Inspections - 1  
Commercial Inspections - 0  
Soil Profile Analysis - 0  
Minor Repairs - 0  
Septic Tank Decommissioning - 0  
Installation Permits Issued - 1  
(New Construction Permits) - 0  
(Major Repairs Permits) - 1

**Leawood:**

Resale Inspections - 1  
Commercial Inspections - 0  
Soil Profile Analysis - 0  
Minor Repairs - 0  
Septic Tank Decommissioning - 0  
Installation Permits Issued - 0  
(New Construction Permits) - 0  
(Major Repairs Permits) - 0

**Prairie Village:**

Resale Inspections - 1  
Commercial Inspections - 1  
Soil Profile Analysis - 0  
Minor Repairs - 0  
Septic Tank Decommissioning - 0  
Installation Permits Issued - 0  
(New Construction Permits) - 0  
(Major Repairs Permits) - 0

