

**KANSAS STORMWATER 2017 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: 4600 W 51<sup>st</sup> Street

Mailing Address 2: \_\_\_\_\_

Municipality: City of Roeland Park

State: Kansas

Zip Code: 66205

MS4 Program Contact Person: Jose Leon, Director of Public Works

Contact E-Mail Address: jleon@roelandpark.org

Contact Phone Number: 913-722-2600

Construction Issues Contact Person: Jose Leon

Contact E-Mail Address: jleon@roelandpark.org

Contact Phone Number: 913-722-2600

Kansas Permit Number: M-M035-SU01

(Example) M- MC21- SU01

Reporting Period covers activities from January 1, 2017 through December 31, 2017.

This annual report must be submitted to the Kansas Department of Health and Environment (KDHE) by February 28, 2018. This annual report must be submitted as a PDF file to KDHE on a standard compact disk (CD). **In addition**, provide the current copy of the Stormwater Management Program (SMP) Document as a 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 review?	<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 review. 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 in the following table.			

**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	0 Violations  None Required
	<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 specifically on lawn care: (more detail in MCM#1 table). Healthy Yards Expo: Approximately 1000 attendees.

	<p><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.</p>	Nutrients	Number of soil tests Education received with reports and through marketing efforts for free soil test opportunity.	1129 soil tests county-wide-- 866 residential and 262 agricultural 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 to encourage pet owners to pick up after pets</p>	<p>Bacteria</p>	<p>Number of dispensers                   Number bags used.</p>	<p>8 dispensers                   Approximately 700 bags used in 2017</p>
--	---	-----------------	---	---

	<p><b>SEPTIC SYSTEM INSPECTOR 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>	Bacteria	<p>Number of inspections</p> <p>Number of soil profile analysis</p> <p>Number of required repairs</p> <p>Number of permits issued for new construction</p> <p>Number of decommissioning</p>	<p>300 residential inspections (required on resale of property) 309 commercial inspections (conducted annually)</p> <p>103 soil profiles completed</p> <p>108 minor repairs completed</p> <p>74 major repair permits issued for systems that were replaced as a result of a failed inspection.</p> <p>82 permits issued for new construction</p> <p>39 septic tank decommissioning</p>
--	--	----------	---	--

**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 Roeland Park 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:</b> <b>Print media:</b></p>	Type and number of materials distributed	<p><b>Johnson County Magazine:</b> Distribution to 225,000 households in Johnson County for the Winter, Spring, Summer, and Fall issues. A ½ page informational advertisement was included in all four issues of the magazine. Advertisements focused on season appropriate proper lawn and landscape care practices to protect water quality. 2,800 residents of the City of Roeland Park households received each of these four mailings.</p>
			<p><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. Fourteen (14) ads were published reaching a potential of 56,000 each run for a total potential reach of 784,000.</p>

	<p><b>Social Media and Online media:</b> The JCSMP partnered with K-State Extension Johnson County, Bridging the Gap, and the Mid-America Regional Council (MARC) for social media and other web-based messaging.</p>	<p>Number and description of posts and engagement (likes, shares, etc.) by public.</p>	<p>The JCSMP partnered with K-State Extension Johnson County (KSE) for water quality related messaging on Facebook. There were 4 posts throughout the year relating to water quality. The posts focused on water quality education, with respect to homeowner lawn care. This content reached approximately 72,000 individuals. KSE also utilized the “Nextdoor” social media site to advertise the availability of free soil tests and the benefits of soil testing to protecting water quality. This post reached 74,000 Johnson County households on Nextdoor.</p> <p>Bridging the Gap (BTG) conducted a metro-wide social media campaign through grant funding received both by the JCSMP and KC Water Services. The campaign featured posts on BTG’s Facebook, Twitter, and Instagram accounts. Ten topics were posted from March through August 2017. Subjects covered pet waste, litter, lawn chemicals, general water quality and stormwater education. There were approximately 55,000 impressions generated metro-wide in this campaign.</p> <p>The Mid-America Regional Council (MARC) Water Quality Education Committee conducted a metro-wide social media and online advertising campaign during water quality awareness month (August). Messaging focused on both indoor and outdoor water quality. The goal was to educate people about actions they can take to help improve water quality and direct them to assets they can use to educate others. There were an estimated 2,018,700 gross impressions metro-wide during the campaign.</p>
--	---	--	---

	<b>Presentations and Events</b>	Activities and number of participants	<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 30 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 had approximately 1000 attendees.
		Activities and number of participants	The Blue River Watershed Association and the Friends of the KAW provided classroom instruction on water quality to 48 classes totaling over 1,200 upper elementary and middle school students across the county.
		Activities and number of participants	Stone Lion Puppet Theater presented 30 performances on water quality to over 7,000 elementary school students across the county.
	<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>Information located on City website</p> <p>Information located on City 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>No stormwater management plans were necessary in 2017</p> <p>No stormwater management plans were necessary in 2017</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>Number of soil tests conducted and water quality education provided</p>	<p>1129 soil tests county-wide-- 866 residential and 262 agricultural 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>
	<p>b) Stream clean-ups:</p>	<p>Number of participants and volume of litter removed from area streams</p>	<p>There were 15 stream clean-ups conducted by Bridging the Gap and Blue River Watershed Associated across Johnson County. A total of 3,600 pounds of litter was removed from local streams by approximately 600 student and adult volunteers.</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)

	<p>c) Rain barrel, rain garden workshops and native plant sale</p>	<p>Number of participants in educational activities.</p>	<p><b>Two native plant workshops:</b> One held May 17, 2017 at the Johnson County Central Resource Library and the second held at Olathe North High School. Both classes were taught by David Dods, local rain garden expert, and combined were attended by approximately 110 people.</p> <p><b>Two rain barrel classes</b> were held by Olathe North High School. Attendees were instructed on the causes of stormwater pollution and ways to prevent it. Attendees also made rain barrels to install at their homes. There were 192 attendees.</p> <p><b>Native Plant Sale:</b> Held June 3, 2017 in Shawnee Mission Park. Approximately 1000 native plants were sold at the event and an estimated 300 people participated.</p>
	<p><b>Annual Program Review:</b> Assess applicability of BMPs for MCM 2 in SMP</p>	<p>Review and revise as necessary</p>	<p>No revisions required</p>

### 3. Illicit Discharge Detection and Elimination

Place a check mark in the appropriate box.

Address each item below and complete the 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 may require the permittee enact ordinances, or resolutions. Have ordinances, or resolutions, or regulations to prohibit non-stormwater discharges into the storm system been enacted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effective Date: <u>4/08/2006</u>			
Have the ordinances, resolutions, or regulations been modified?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Effective Date: N/A			
4. Have the ordinances or resolutions and/or modifications been submitted to KDHE for review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Have public employees, businesses, 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 and detention ponds inspected for illicit discharges and debris?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Are restaurant waste grease areas inspected?	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Are septic systems inspected?	Yes <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. 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	No  No
	<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	Yes
	<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	16,108 participants county-wide  1,628,035 pounds of hazardous waste collected
	<b>Grease Management Program:</b> Johnson County Wastewater Staff inspects restaurants for proper grease trap interceptor installation and compliance with pump schedule (County-wide numbers, no city break-down available)	Number of plan reviews  Number of inspections	368 plan reviews  317 inspections



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

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<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>Number of inspections</p> <p>Number of soil profile analysis</p> <p>Number of required repairs</p> <p>Number of permits issued for new construction</p> <p>Number of decommissions</p>	<p>300 residential inspections (required on resale of property) 309 commercial inspections (conducted annually)</p> <p>103 soil profiles completed</p> <p>108 minor repairs completed</p> <p>74 major repair permits issued for systems that were replaced as a result of a failed inspection.</p> <p>82 permits issued for new construction</p> <p>39 septic tank decommissions</p>
	<p><b>Annual Program Review:</b> Assess applicability of BMPs for MCM3 in SMP</p>	<p>Review and revise as necessary</p>	<p>No revisions required</p>

#### 4. Construction Site Stormwater Runoff Control

Address each item below and complete the following table:	Place a check mark in the appropriate box.		
	Yes	No	Not Applicable
1. The permit requires the permittee to enact ordinances or resolutions. Have ordinances or resolutions to address construction site runoff from new development and redevelopment projects been enacted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effective Date: <u>9/04/2007</u>			
2. Has a copy of the ordinances or resolutions been submitted to KDHE as required by the permit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. After review, and confirmation the plans are acceptable, is a construction site permit or building permit issued?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Has a procedure been developed for the receipt and consideration of information submitted by the public?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Has a procedure been developed and implemented for construction site inspection and enforcement of the control measures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Are construction site inspection and enforcement actions successful?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Are site owners and/or operators provided instruction on proper construction site erosion and waste control?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. List all the construction site stormwater runoff control BMPs as identified in the SMP and provide the requested information in the following table.			

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

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<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. Attendees could opt to take an exam to become a "Johnson County Certified Inspector".	Number of individuals trained.	82 attendees and 43 certified inspectors
	Review regulation and update (if necessary)	Review regulation  Update as necessary	No updates necessary
	<b>Inspection and Enforcement:</b> Review Plans, issue permits, track violations and enforcements measures.	Number of violations  Violations and enforcement measures documented	0 Violations  None Required
	<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 Reports  Not Required

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>Annual Program Review:</b> Assess applicability of BMPs for MCM4 in SMP</p>	<p>Review and revise as necessary</p>	<p>No revisions necessary</p>

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

Place a check mark in the appropriate box.

Address each item below and complete the following table:                      Yes                      No                      Not Applicable

- 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. The permit requires the permittee to enact ordinances or resolutions. Have ordinances or resolutions to address construction site runoff from new development and re-development projects been enacted?

Effective Date: 9/04/2007

- 3. Has a copy of the ordinances or resolutions been submitted to KDHE as required by the permit?
- 4. Has a post-construction stormwater runoff program been implemented?
- 5. Have post-construction sites been inspected?
- 6. Have there been post-construction violations?

- 7. 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 following table.

**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 structural post-construction runoff controls.</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>Yes</p> <p>0 Inspections</p> <p>Not Required</p> <p>6 Inspections</p> <p>0 Violations</p> <p>None Required</p>

**5. Post-Construction Site Stormwater Management in New Development and Redevelopment Table** (continued)

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)
	<p><b>Annual Program Review:</b> Assess applicability of BMPs for MCM5 in SMP</p>	<p>Review and revise as necessary</p>	<p>No revision required</p>

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

Place a check mark in the appropriate box.

Address each item below and complete the 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 and 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 disposed?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Are snow and ice removal materials 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' drainage controlled 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 in the following table.

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

Place a check mark in the appropriate box.

- |   | Yes                                 | No                                  |
|---|-------------------------------------|-------------------------------------|
| <del>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?</del> | <del><input type="checkbox"/></del> | <del><input type="checkbox"/></del> |
| <del>2. Have at least two municipal industrial facilities on the list had inspection and sampling conducted?</del>  | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3. <b>If the answer to items 1 and 2 is "No" provide a statement as to why monitoring and control has not occurred.</b>   |                                     |                                     |



**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>Not applicable</p> <p>Not applicable</p>
	<p><b>Municipal Employee Training:</b> Implement training program for employees and document training.</p> <p>List any city specific training performed and documented</p> <p>A. <b>STORMWATER TRAINING VIDEOS:</b> The videos of stormwater inlet cleanout focuses on efficient efforts to reduce pollution. Public Works employees were all in attendance.</p>	<p>Number of city attendees</p>	<p>7 city attendees</p>

	<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
  - 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
  - h. A map of surface water sampling locations with an information table is to be attached with this report (if surface water monitoring is required by the permit). An example map and table is included with this report to illustrate the preferred method of completion.

Issues which may be addressed include:

- a. Are the BMPs appropriate for the 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. Please note a revised SMP should be submitted for KDHE review if BMPs are revised.
  5. Provide a list of other municipalities/contractors, if any, which will be responsible for implementing any of the program areas of the SMP.

## 7. TMDL Surface Water Monitoring Locations

- a. Some permittees are required to monitor surface waters if the permit includes TMDL monitoring requirements for Specific Impaired Stream or Lake to Target within Part II of the permit.

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 (Appendix A contains TMDL Report Forms)**

**No TMDL's listed in this permit.**

- b. **Public Education and Outreach**

The City of Roeland Park passed an ordinance which prohibits non-stormwater discharges into the storm sewer system. This ordinance was passed on 04/08/2006. In 2017, there were no known violations.)

In addition to any Roeland Park specific BMPs for Public Education and Outreach, 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 classroom education and at community events to more far-reaching 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 through many different channels and will hopefully create 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 Roeland Park specific BMPs for Public Involvement and Participation, 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 through Johnson County K-State Extension. 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 by residents to benefit water quality. Additional public participation activities included litter pick-ups organized by the Blue River Watershed Association and Bridging the Gap 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. Native plant workshops and sales were held this year to encourage use of native plants in

## MS4 2017 Annual Report

home landscapes to reduce the need for chemical inputs and promote stormwater infiltration. 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**

- G. The City of Roeland Park passed an ordinance which prohibits non-stormwater discharges into the storm sewer system. This ordinance was passed on 04/08/2006. In 2017, there were no known violations.

The City of Roeland Park has passed an ordinance to prevent the discharge of pollutants into the MS4. The City of Roeland Park has also implemented a plan to detect, identify, and eliminate non-stormwater discharges into the MS4. In addition to the city specific BMPs the JCSMP sponsored countywide Household Hazardous Waste (HHW) collection at Olathe Municipal Services and the Johnson County HHW Facilities. In addition, the Johnson County Department of Health and Environment (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 systems 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.

### a. **Construction Site Stormwater Runoff Control**

- The City of Roeland Park passed an ordinance which prohibits non-stormwater discharges into the storm sewer system. This ordinance was passed on 04/08/2006. In 2017, there were no known violations.

The City has passed an ordinance to control the release of pollutants from construction site activities. The City 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. There were 82 attendees at this year's training and 43 attendees were certified as "Johnson County Certified Inspectors". 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.

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

- The City of Roeland Park passed an ordinance which prohibits non-stormwater discharges into the storm sewer system. This ordinance was passed on 04/08/2006. In 2017, there were no known violations.

The City of Roeland Park 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 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. There are no concerns for receiving waters that would justify a change in

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

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 Street Sweeping Program and the Stormwater Inlet Cleanout Program.

Additionally, 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 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. Currently, the City's Fall Leaf Pickup Program encourages residents to rake their leaves in the street for pickup. We have identified a new strategy which removes that effort and encourages the residents to leave their leaves in their yards for pickup. This will mitigate leaves being washed in stormwater inlets their by producing a program which is significantly more water quality friendly. This effort is scheduled to begin in the 4<sup>th</sup> quarter of 2018.
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 Roeland Park 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

*educational activities and events, social media and other web-based outreach countywide in 2017.*

- 2) None of the 6 program elements were unsatisfactory
- 3) Public education and outreach efforts through the multiple approaches from the city, county, and regional levels were successful. The ability to conduct 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 likely 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 Stormwater Management Plan to actual improvements in water quality. For example, we reached millions of people with our public education and outreach campaigns over the past several years, but there is no direct way to attribute this to pollutant reduction numbers.
- 5) The City's bi-monthly sweeping program was successful in 2017. In total, we removed \_\_\_\_\_ cubic yards of trash and debris from City streets. Our storm drainage inlets were cleaned out during the spring and fall seasons in 2017. In total, we removed over 100 cubic yards of sediment, leaves, and trash.
- 6) The elected officials approve the City's ordinances and support staffs efforts with water quality and stormwater management program. The governing body approved staffs recommended changes to our leaf pickup program to improve our stormwater quality discharges in the City.
- 7) The City of Roeland Park 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.



**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: 2/28/17  
(Legally responsible person)

Name (printed): Jose M. Leon Jr. Title: Director of Public Works

**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