

# KANSAS STORMWATER 2015 ANNUAL REPORT FORM FOR MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)

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

Permittee Information and Reporting Period

Permittee (Agency Name) Mailing Address: 1 Kansas Department of Transportation

Mailing Address 2; City: Topeka

State Kansas

Zip Code: 66603

Contact Person: Clay Adams

Contact E-Mail Address: [Clay@ksdot.org](mailto:Clay@ksdot.org)

Contact Phone Number: 785-296-3233

Kansas Permit Number: M-MO05-SU01, City of St. Joseph (Example) M – MC21 - SU01

Reporting Period covers activities from January 1, 2015 through December 31, 2015.

This annual report must be submitted to the Kansas Department of Health and Environment (KDHE) by February 28, 2016. 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.

## 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.

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.

Part B. Executive Summary

Executive Summary

The Kansas Department of Transportation will continue carrying out the BMPs that we've had in place since 2003. We are continuing the Adopt-A-Highway liter removal program. KDOT implemented changes to our Construction Stormwater Runoff Control Program. These changes are in compliance with our September 5, 2013 Construction Stormwater Consent Decree from the EPA. We enhanced our stormwater erosion control training. This training is required for our maintenance staff and contractors' personnel. KDOT's Roadway Design process supports Post Construction Stormwater Management. Projects are evaluated at a Q-100 rain event, checking the downstream condition / impacts. As a rule, waterway alignment is not changed. Our design practice is to leave the downstream condition in as good as or better than the condition prior to construction. Our facilities are kept in good order, with annual chemical storage inspection, Spill Prevention Control and Countermeasure Plan training, equipment washed in wash bays and salt is stored under cover/roof. KDOT currently has mapped our outfalls and is establishing a stormwater monitoring program. We will be submitting our Stormwater Management Plan by May 2016.

1. The most effective aspect of our program is to maintain the grass line ditches. We have installed rock riprap in the appropriate areas to stabilize slopes and reduce erosion.
2. We have not identified any aspects of our program that have produced unsatisfactory results.
3. KDOT has been very successful with the use of vegetation in our ditches to manage sediment and erosion.
4. KDOT continues to strive to do the best we can with limited resources.
5. KDOT continues the Adopt-A-Highway and Sponsor-A-Highway programs, picking up liter along the roadsides.
6. The elected officials for the State of Kansas support the KDOTs Adopt-A-Highway and Sponsor-A-Highway programs to pick up liter along the roadsides.
7. KDOT continues to collaborate with other organization through the volunteer participation with the Adopt-A-Highway and Sponsor-A-Highway programs to pick up liter along the roadsides.

**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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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)
0.1	Maintain Grass lined ditches	Sediment	Over 70% vegetated ditch on all non-construction permit status ditches.	On going BMP management
0.2	RipRap	Erosion Control	As a highly errodable area identified to be in need, the area may be scheduled for rock rip rap treatment.	As a need is identified, the work is put on the schedule.
0.3	Stone Ditch Checks	Erosion Control	As a highly errodable area identified to be in need, the area may be scheduled stone ditch checks.	As a need is identified, the work is put on the schedule.

**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)
1.1	Adopt-A-Highway Safety Video	Reviewed by Adopt-A-Highway groups	Safety Video is distributed to the Area Offices to Distribute to the volunteers.
1.2	Adopt-A-Highway Safety Brochure	Publish Safety Brochure	Safety Brochure is distributed to the Area Office to distribute to the Adopt-A-Highway volunteers.
1.3	Host a Public Awareness booth at the Kansas State Fair in Hutchinson.	Staff Booth	KDOT staffed a booth at the Kansas State Fair in September 2014. Adopt-A-Highway safety materials were distributed.
1.4	Issue Public Announcement advertizing the Adopt-A-Highway Program	News release being released to the media outlets	KDOT issued a news release in May 2015 announcing the Adopt-A-Highway program and inviting the public to volunteer.
1.5	Area Maintenance Superintendents, and Contractors hired for KDOT projects, Training for Stormwater Pollution Control	Training Class	Area Maintenance Superintendents and Construction Inspection personnel attend annual training on stormwater pollution control.

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

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)

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

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)

**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)
2.1	KDOT invites volunteers to participate in the Adopt-A-Highway program	Groups volunteer for the Adopt-A-Highway program	KDOT has active Adopt-A-Highway groups across the state.
2.2	KDOT staffs an information booth at the State Fair in Hutchinson	KDOT staffs an information booth at the State Fair.	KDOT staffed an information booth at the State Fair in September 2015.



**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)

### 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?



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?



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: \_\_\_\_\_

Has the ordinance, resolution or regulation been modified?

Effective Date: \_\_\_\_\_

4. Has the ordinance, resolution or regulation and/or modification been submitted to KDHE for approval?



5. Have public employees, business, and the general public been informed of the hazards associated with illegal discharges and improper disposal of waste?



6. Are stormwater inlets & detention ponds inspected for illicit discharges and debris?



7. Are restaurant waste grease areas inspected?



8. Are septic systems inspected?



9. Is debris, yard waste and dead animals removed from the streets when noticed by employees or reported?



10. Is there a yard waste management program?



11. Are snow removal activities inspected?



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)
3.1	KDOT monitors the Right-of-Way for signs of illicit discharge.	KDOT maintenance staff surveys the road system weekly.	KDOT maintenance staff surveys the road system weekly.

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

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)

#### 4. Construction Site Stormwater Runoff Control

Explain each item below in following table.	Place a check mark in the appropriate box.		
	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? Effective Date: <u>2015 Specification Book</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has a copy of the ordinance, resolution or regulation 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, is a construction site permit issued?	<input type="checkbox"/>	<input type="checkbox"/>	
7. Has a procedure been developed for the receipt and consideration of information submitted by the public?	<input 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 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)
4.1	Contractor SWPPP is reviewed by the Area Engineer	All Contractors working on KDOT owned projects, SWPPP is reviewed/approved by the Area Engineer before Construction begins	100% of the KDOT owned projects will have SWPPPs in place.
4.2	Inspection of stormwater pollution control measure by KDOT personnel in accordance with the KDHE stormwater construction permit.	Complete all required and post rainfall at KDOT owned construction site inspections.	Complete all required and post rain fall construction site inspections.

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

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)

**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)
5.1	KDOT Drainage Manual	Publish Drainage Design Manual	Publish the Drainage Design Manual (Revised May 2011)
5.2	Utilize permanent erosion control devices to reduce repeated erosion. Such as rock rip rap embankment retention, rock rip rap lined ditches.	Reduce repeated erosion	Repeated erosion has been reduced by the application of permanent erosion control devices.
5.3	Establish 70% vegetation in ditches.	Establish 70% vegetation in ditches.	Address the erosion as it is identified.
5.4	Regular monitoring condition of right-of-way by our maintenance department.	Routine monitoring of the condition of the right-of-way, typically a weekly drive by review.	

**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)

**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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 type="checkbox"/>	<input checked="" 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)
6.1	Spill control equipment is to be available at each office where fuel is available	Spill Control kit available	Spill control kit is available at each office where fuel is available
6.2	Training on Spill Prevention Plan	KDOT field employees attend training on Spill Prevention Plan	KDOT's field employess are required to attend at least two safety meetings per year on topics of spills.
6.3	Chemical Storage at Sub Area	Observe proper storage of chemiclals	Take annual inventory of chemicals stored at the sub areas.
6.4	Salt Storage	Unmixed Salt is stored under cover	Unmixed salt is stored under cover
6.5	Salt/Sand mix is stored under cover	Salt/Sand mix is stored under cover	Salt/Sand mix is stored under cover
6.6	Utilize wash-bay for all equipment washing	Wash all equipment only in the wash-bay	All equipment is only washed in the wash-bay.

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

BMP ID Number	Brief BMP Description	Measurable Goal(s)	Progress Achieving Goal(s) (Measured Result)

## 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. Please note a revised SMP should be submitted for KDHE approval 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.

Part V. Reporting

1. General assessment of the various BMPs:

**Public Outreach** – KDOT’s public audience has different characteristics than a Municipality. Our audience is limited to training our staff and contractor’s staff working on KDOT owned projects. We provide press releases encouraging the public not to litter and encourage participation in the Adopt-a-Highway program. We require our maintenance superintendents, compliance inspectors, and the contractor’s staff to attend stormwater pollution control training.

**Public Involvement and Participation** – KDOT encourages the public to participate in the Adopt-A-Highway program. The Adopt-A-Highway program gives the public an opportunity to reduce the litter along the highway right-of-way. Our trained staff and contract staff model proper stormwater control to the general public during construction or maintenance projects along the highway.

**Illicit Discharge Detection and Elimination** – KDOT typically does not have curbside storm sewer inlets where the public can walk up and discard pollutants such as antifreeze or motor oil. The interstate highways serving the Municipality is access controlled, therefore reducing the opportunity for illicit discharge. KDOT maintenance staff monitors the right-of-way weekly, noting any abnormalities. When an abnormality is identified follow-up action is initiated. The monitoring report notes items that need corrective action. It makes an assumption that all other items are normal. Discharges resulting from a vehicle accident are cleaned up by an environmental remediation company. Typically contaminated soil is excavated and removed from the site.

**Construction Site Stormwater Runoff Control** - KDOT does not enact ordinances, but we do have Policies and Standard Specification for construction projects. KDOT has included language in both that requires compliance with applicable environmental laws. KDOT has implemented changes to our Construction Stormwater Runoff Control Program to be in compliance with our September 5, 2013 Consent Decree. The contractor signs the Stormwater Management Permit for their construction project. This practice has improved contractor compliance with Stormwater Maintenance Permit.

**Post Construction Site Stormwater Management** – KDOT manages the stormwater control BMP following a construction project until 70% vegetation cover has been established. KDOT maintenance staff monitors the right-of-way weekly. As an erosion need is identified KDOT will schedule repairs to be made typically in 90 days. KDOT utilizes the Drainage Design Manual to design new drainage to control the volume and velocity of the drainage to avoid adverse impacts to anyone downstream from the project. Project parameters and downstream conditions are checked at a Q-100 rain event.

**Municipal Pollution Prevention/Housekeeping** – KDOT maintains clean facilities. The chemical storage is inventoried once a year. Salt storage is under roof. Salt/Sand mix is stored under a trapped structure. The residue for the mixing is broomed up and added the pile. Staff are trained annually on the Spill Prevention, Controls and Countermeasure plan. Records of attendees are on file with the Safety officers. Equipment is washed in the wash-bay, which is equipped with sediment traps and connected to a sanitary sewer system.

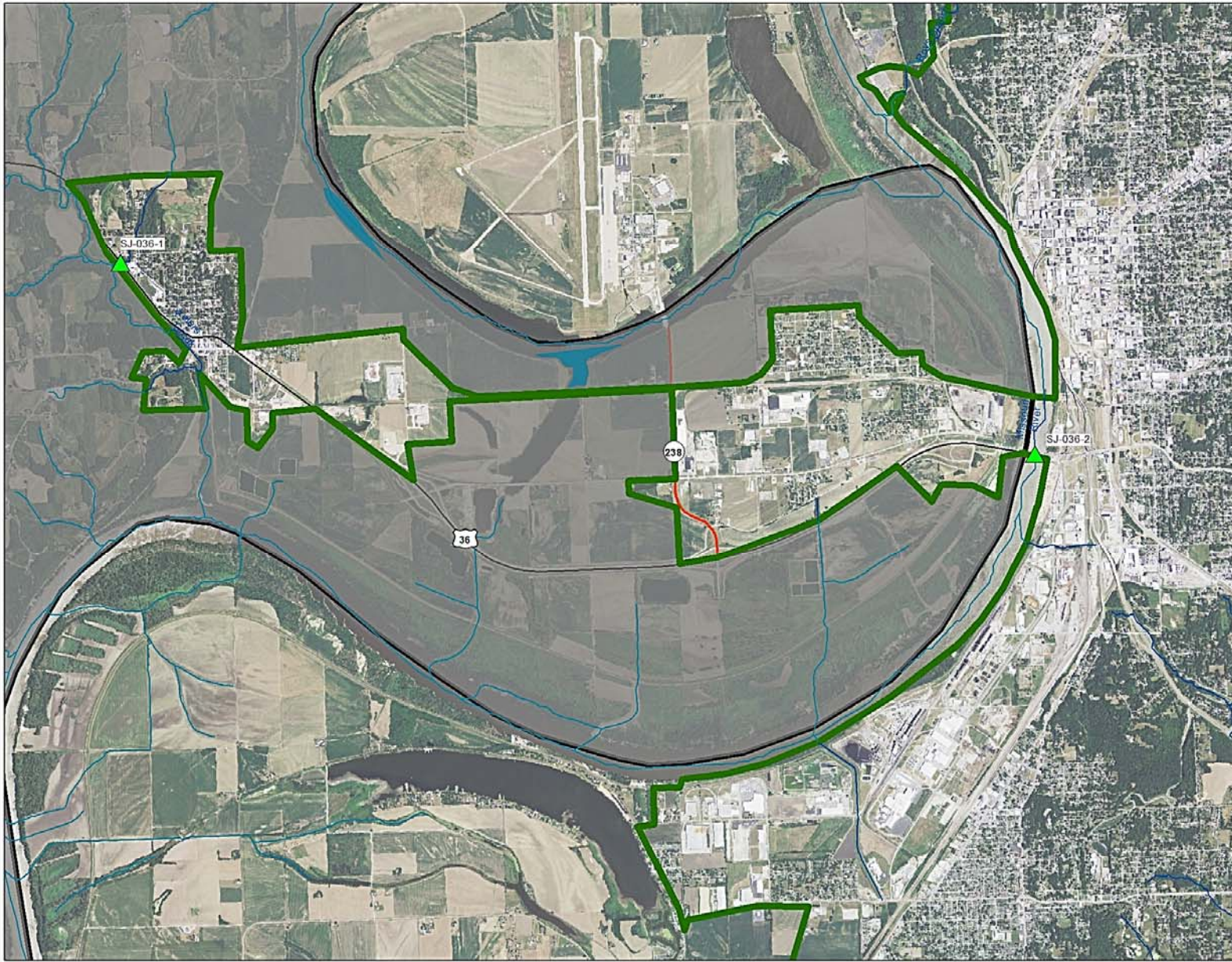
2. KDOT is working to map our outfalls and identify location to begin monitoring. KDOT plans to partner with the Municipality to coordinate monitoring locations. KDOT is revising our Stormwater Management Plan and plans to submit that plan to KDHE by May 2016.

## MS4 2015 Annual Report







3. Total Maximum Daily Loads:
  - a. No discharges which would produce Fecal Coliform Bacteria are allowed on KDOT right-of-way and illegal sources are identified and removed. KDOT facilities within these areas are subject to the requirements of the municipality in which they are located and KDOT complies with the municipal requirements.
  - b. Nutrient/BOD and siltation which could result from KDOT construction activities are subject to the requirements of plans and special provision included in the contract documents. A Storm Water Pollution Prevention Plan (SWPPP) is part of every construction project.
  - c. Pesticide application always conforms to the manufactures recommendation and the minimum amount necessary is applied.
4. KDOT plans to continue the BMPs we have in place. KDOT has mapped our outfalls and is establishing a stormwater monitoring program. KDOT will be submitting our revised Stormwater Management Plan by May 2016.
5. There are no other municipalities/contracts responsible for implementing KDOT's SMP.



# City of St. Joseph, MO Urbanized Area



## Legend

-  KDOT Outfall
-  Urban Area
-  Stream
-  Interstate
-  K-Route
-  US-Route



**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: 3-23-16  
(Legally responsible person)

Name (printed): W. Clay Adams Title: Chief of Maintenance

**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