

# KANSAS STORMWATER 2018 ANNUAL REPORT FORM FOR MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

Please place an "X" in the left box if any information has changed from previous years

<input type="checkbox"/>	Permittee [Agency Name] Mailing Address 1:	Kansas Department of Transportation
<input type="checkbox"/>	Mailing Address 2:	700 SW Harrison, 8 <sup>th</sup> Floor
<input type="checkbox"/>	Municipality:	Kansas City
<input type="checkbox"/>	State:	Kansas
<input type="checkbox"/>	Zip Code:	66603
<input type="checkbox"/>	MS4 Program Contact Person:	Clay Adams
<input type="checkbox"/>	Contact E-Mail Address:	Clay.Adams@ks.gov
<input type="checkbox"/>	Contact Phone Number:	785-296-3233
<input checked="" type="checkbox"/>	Construction E-Mail Address:	Mervin.Lare@ks.gov
<input checked="" type="checkbox"/>	Contact Phone Number:	785-250-4793
<input type="checkbox"/>	Kansas Permit Number: — Ex. M-MC21-SU01	M-KS27-SU01, Kansas City

Reporting Period covers activities from January 1, 2018 through December 31, 2018.

This annual report must be submitted to the Kansas Department of Health and Environment (KDHE) by February 28th, 2019. This annual report must be submitted as a PDF file to KDHE on a standard compact disk (CD) or digital versatile disk (DVD).

**IN ADDITION**, provide the following:

1. A current copy of the Stormwater Management Program (SMP) Document as a PDF file on the CD or DVD.
2. Include at the end of this annual report a section which provides a final report on effectiveness of source controls and structural BMPs to achieve the measurable goals and summarize water quality data from selected monitoring sites. The water quality data should be evaluated for trends over the years of monitoring.
3. Any new stormwater ordinances or revised ordinances which have not already been submitted to KDHE for review/retention.

This template annual report document (basic report) for the 2018 reporting period has changed from the annual report format used in previous years. This year's document focuses on the core aspects of permit requirements including the Stormwater Management Program, the Six Minimum Control

Measures (Public Education and Outreach, Public Involvement and Participation, Illicit Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, Post-Construction Stormwater Management in New Development and Redevelopment Projects, and Pollution Prevention/Good Housekeeping for Municipal Operations), Total Maximum Daily Load (TMDL) Best Management Practices and TMDL wet weather monitoring. Additionally, for Phase I permittees a program to monitor listed industrial facilities is required. Although any failure to comply with a requirement of the MS4 NPDES permit may expose the permittee to enforcement action by either the permitting authority (Kansas Department of Health and Environment) or by the Environmental Protection Agency, the failure to implement the core aspects of the permit likely increases the risk of not only enforcement but also of incurring a monetary penalty.

The permittee is well advised to accurately report the conditions and status of their stormwater program and give due consideration of improving or enhancing their program where it is weak, or deficient in any of the core aspects.

## **MS4 SIX MINIMUM CONTROL MEASURES FOR MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4'S) WITH NPDES PERMITS (MS4)**

The following outlines the NPDES permit requirements for implementation of the Six Minimum Control Measures as required under Kansas MS4 permits issued by the KDHE. The NPDES permit provided to the MS4 authority should be reviewed for additional requirements associated with implementation of the Six Minimum Control Measures such as deadlines for the implementation of the requirements or supplemental requirements associated with the individual measures. The general requirements are as follows:

**A. Six Minimum Controls** — The permittee shall develop and implement Best Management Practices (BMP's) with measurable goals for each of the six minimum control measures. The six minimum control measures and associated requirements are listed and explained as follows:

### **1. Public Education and Outreach**

The permittee shall implement a public education program which includes distribution of educational materials to the community or conducting equivalent outreach activities which address the impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

### **2. Public Involvement and Participation**

The permittee shall implement a public involvement and participation program to solicit public comment and recommendations regarding the BMP's and measurable goals utilized by the permittee to comply with the permit. The permittee shall comply with state and local public notice requirements when implementing a public involvement and participation program.

### 3. Illicit Discharge Detection and Elimination

The permittee shall:

- a. develop, implement and enforce a program to detect and eliminate illicit discharges into the MS4;
- b. Develop a storm sewer system map of the permittee's MS4, showing the location of all outfalls, either pipes or open channel drainage, showing the names and location of all streams or lakes that receive discharges from those outfalls. A copy of the map shall be submitted to KDHE. This map may be submitted as a PDF file(s) on a CD or DVD.
- c. Enact ordinances or resolutions to prohibit non-stormwater discharges into the storm sewer system and implement appropriate enforcement procedures and actions if the permittee has such authority. A copy of the ordinances or resolutions shall be submitted to KDHE.
- d. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste; and
- e. Develop and implement a plan to detect and address prohibited non-stormwater discharges, including but not limited to illegal dumping, to the storm sewer system. Unless identified by either the permittee or KDHE as a significant source of pollutants to waters of the state, the following examples of non-stormwater discharges are not prohibited from entering the MS4:

- |   |  |
|---|--|
| 1. Water line flushing  | 16. Occasional not-for-profit car wash activities  |
| 2. Diverted stream flow   | 17. Flows from riparian habits and wetlands  |
| 3. Rising groundwaters  | 18. Dechlorinated swimming pool discharges excluding filter backwash   |
| 4. Uncontaminated groundwater infiltration as defined under 40 CFR 35.2005(20) to separate storm sewers | 19. Street wash waters (excluding street sweepings which have been removed from the street)  |
| 5. Uncontaminated pumped groundwater  | 20. Discharges of flows from firefighting activities   |
| 6. Contaminated groundwater if authorized by KDHE and approved by the municipality                      | 21. Heat pump discharge waters (residential only)  |
| 7. Discharges from potable water sources  | 22. Treated wastewater meeting requirements of a NPDES permit  |
| 8. Foundation drains  | 23. Sump pump drains   |
| 9. Air conditioning condensate  | 24. Other discharges determined not to be a significant source of pollutants to waters of the state, a public health hazard, or a nuisance |
| 10. Irrigation waters   |  |
| 11. Springs   |  |
| 12. Water from crawl space pumps  |  |
| 13. Footing drains  |  |
| 14. Lawn watering   |  |
| 15. Individual residential car washing  |  |

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

The permittee shall develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of stormwater discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. The program must include the development and implementation, at a minimum, of the following:

- a. Permittees which have the authority to enact ordinances or resolutions shall enact such ordinances or resolutions to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State and Local law;
- b. Requirements for construction site owners or operators to implement appropriate erosion and sediment control best management practices;
- c. Requirements for construction site owners or operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that are likely to cause adverse impacts to water quality;
- d. Procedures for site plan review which incorporate consideration of potential water quality impacts;
- e. Procedures for receipt and consideration of information submitted by the public;
- f. Procedures for site inspection and enforcement of control measures.

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

The permittee shall develop, implement, and enforce a program to address post-construction stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development and implementation, at a minimum of the following:

- a. BMP's to prevent or minimize adverse water quality impacts;
- b. Strategies which include a combination of structural and/or non-structural BMP's appropriate for the municipality;
- c. For permittees which have the authority, ordinances or resolutions to address post-construction runoff from new development and redevelopment projects to the extent allowable under State and local law;
- d. Ensure adequate long-term operation and maintenance of BMP's

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

The permittee shall develop and implement an operation and maintenance program that includes employee training to prevent and reduce stormwater pollution from municipal operations activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.

**B. Stormwater Management Program**

Please place an “X” in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the Stormwater Management Program (SMP) been developed and implemented?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Has the SMP been modified or updated during this reporting period?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If the answer to question 2 above was “yes,” has the modified SMP been submitted to KDHE for review?

If the answer to item 3 is a “NO,” a copy of the updated 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 BMP’s and/or revised goals to avoid being in a position of non-compliance. However; reasonable BMP’s with reasonable goals must be implemented or KDHE may require the permittee to modify the SMP to include additional or better BMP’s and/or more reasonable goals.

**C. Total Maximum Daily Load (TMDL) Best Management Practices (BMP’s)**

Some permittees are required to implement BMPs to reduce the discharge of listed TMDL regulated pollutants (potentially any or all of the following pollutants – bacteria, nutrients, and sediment)

Please place an “X” in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Were any BMP’s 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 type="checkbox"/>	List all of the BMP’s intended to attenuate the discharge of TMDL regulated pollutants as identified in the SMP and provide the requested information in the following table.

List all the TMDL BMPs as identified in the SMP and provide the requested information in the following table.

**D. TMDL BMP Table — Please fill out accordingly**

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>REGULATED TMDL PARAMETERS</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
0.1	Maintain grass lined ditches	Sediment	Over 70% vegetated ditch on all non-construction permit status ditches.	Ongoing BMP management
0.2	Riprap	Erosion Control	As a highly erodible area identified to be in need, the Area Office may be scheduled to install rock riprap treatment.	Work is scheduled on an as needed basis.
0.3	Stone Ditch Checks	Erosion Control	As a highly erodible area are identified to be in need, the Area Office may be scheduled to install a stone ditch check.	Work is scheduled on an as needed basis.

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

1. Public Education and Outreach (Table) - Please fill out accordingly

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 and media)

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
1.1	Establish a Stormwater Management informational web page.	Establish Stormwater Management informational web page.	The Stormwater Management informational web page has established and published on the KSDOT.org web site, February 14, 2017.

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

1. Public Education and Outreach (Table) - Please fill out accordingly

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 and media)

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
1.2	Adopt-A Highway Safety Video	Reviewed by Adopt-A-High groups	Safety Video is distributed to the Area Offices to distribute to the volunteers.
1.3	Adopt-A-Highway Safety Brochure	Publish Safety Brochure	Safety brochure is distrusted to the Area Office to distribute to the Adopt-A-Highway volunteers.



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

1. Public Education and Outreach (Table) - Please fill out accordingly

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 and media)

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
1.4	Host a Public Information booth at the Kansas State Fair in Hutchinson	Staff Booth at the State Fair	KDOT staffed a booth at the Kansas State Fair in September 2018. Adopt-A-Highway safety materials were distributed. The State Fair reported attendance to be 327,965.
1.5	Issue Public Awareness Announcement highlighting the Adopt-A-Highway Program	Provide News release to the media outlets.	KDOT issued a news release in May 2018 high lighting the Adopt-A-Highway program and inviting the public to volunteer.
1.6	Area Maintenance Superintendents, and KDOT contractors receive Stormwater Pollution Control training.	Provide Training Classes	Area Maintenance Superintendents and Construction Inspectors attend annual stormwater pollution control training.

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

2. Public Involvement and Participation (Table) - Please fill out accordingly

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

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
2.1	KDOT invites volunteers to participate in the Adopt-A-Highway program	Groups participate in the Adopt-A-Highway program	KDOT has 13 - Adopt-A-Highway groups and 13 – Sponsor–A-Highway sponsorships in Johnson and Wyandotte Counties.
2.2	Public reporting of Illicit discharges on KDOT right-of-way.	Number of notifications	An email link has been set up on Stormwater Management web page. The page went live on February 14, 2017.  No email notifications received in calendar year 2018.

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

2. Public Involvement and Participation (Table) - Please fill out accordingly

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

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>

**E. SMP Requirements (Six Minimum Control Measures) (Continued)**

3. Illicit Discharge Detection and Elimination

Please place an "X" in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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"/>	<input type="checkbox"/>	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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The permit may require the permittee enact ordinances, or resolutions. Have ordinances, or resolutions, or regulations to prohibit non-stormwater discharges into the storm sewer system been enacted?  Effective date:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have the ordinances, resolutions, or regulations been modified?  Effective date:

List all the Illicit Discharge Detection and Elimination BMPs as identified in the SMP and provide the requested information in the following table

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

3. Illicit Discharge Detection and Elimination (Table) - Please fill out accordingly

List all of the illicit discharge detection and elimination BMPs as identified in the SMP and provide the requested information in the following table.

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
3.1	KDOT monitors the Right-of-Way for illicit discharge.	KDOT maintenance staff survey the road system weekly.	KDOT maintenance staff survey the road system weekly. No sewer cross connects, or other illicit discharges were detected in 2018.
3.2	KDOT monitors the highway for debris and dead animals.	KDOT maintenance monitors the roadway daily.	KDOT maintenance staff removed debris and dead animals as they become aware of the need.
3.3	Public reporting of Illicit discharges on KDOT right-of-way.	Number of notifications	An email link has been set up on Stormwater Management web page. The page went live on February 14, 2017.

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

3. Illicit Discharge Detection and Elimination (Table) - Please fill out accordingly

List all of the illicit discharge detection and elimination BMPs as identified in the SMP and provide the requested information in the following table.

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>

**E. SMP Requirements (Six Minimum Control Measures) (Continued)**

4. Construction Site Stormwater Runoff Control

Please place an "X" in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The permit requires the permittee, if they have such authority, to enact ordinances or resolutions. Have ordinances or resolutions to address construction site runoff from new development/redevelopment projects been enacted?  Effective date:
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a copy of the ordinances or resolutions been submitted to KDHE as required by the permit?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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"/>	<input type="checkbox"/>	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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a procedure been developed and implemented requiring site plan review which includes consideration of potential water quality impacts?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a procedure been developed for the receipt and consideration of information submitted by the public?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a procedure been developed and implemented for construction site inspection and enforcement of the control measures?

List all the construction site stormwater runoff control BMP's as identified in the SMP and provide the requested information in the following table.

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

4. Construction Site Stormwater Runoff Control (Table) - Please fill out accordingly

List all of the Site Stormwater Runoff Control BMP's as identified in the SMP and provide the requested information in the following table.

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
4.1	Contractor's SWPPP is reviewed by the Area Engineer	All Contractors working on KDOT owned projects submit their SWPPP to KDOT to 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 inspections in accordance with the stormwater construction permit.	Complete all required and post rainfall construction site inspections.



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

4. Construction Site Stormwater Runoff Control (Table) - Please fill out accordingly

List all of the Site Stormwater Runoff Control BMP's as identified in the SMP and provide the requested information in the following table.

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>

**E. SMP Requirements (Six Minimum Control Measures) (Continued)**

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

Please place an "X" in the left boxes to complete the table below.

YES	NO	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The permit requires the permittee, if they have such authority, to enact ordinances or resolutions. Have ordinances or resolutions to address construction site runoff from new development and redevelopment projects been enacted?  Effective date:
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Has a copy of the ordinances or resolutions been submitted to KDHE as required by the permit?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a post-construction stormwater runoff program been implemented?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have post-construction sites been inspected?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are BMP's specified to minimize adverse water quality impacts?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have strategies been developed to include a combination of structural and/or non-structural BMP appropriate for the municipality?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have measures been implemented to ensure adequate long-term operation and maintenance of structural BMP's?

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.

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

5. Post - Construction Site Stormwater Runoff Control (Table) - Please fill out accordingly

List all of the post-construction site stormwater runoff BMPs as identified in the SMP's and provide the requested information in the following table.

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
5.1	KDOT construction projects are reviewed under criteria in KDOT Drainage Design Manual for appropriate Post Construction BMPs.	Publish KDOT Drainage Design Manual	KDOT Drainage Design Manual (Revised December 2016) has been published.
5.2	Utilize permanent erosion control devices to reduce repeated erosion. Such as rock riprap embankment retention, rock riprap lined ditches.	Reduce erosion/stabilize slope	Reduce repeated erosion 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. Maintain 70% vegetation in the ditches.
5.4	Regular monitoring the condition of right-of-way by our maintenance department.	Routine monitoring of the condition of the right-of-way, typically a weekly survey of the right-of-way condition.	Maintenance needs are identified and scheduled for repairs.

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

5. Post - Construction Site Stormwater Runoff Control (Table) - Please fill out accordingly

List all of the post-construction site stormwater runoff BMPs as identified in the SMP's and provide the requested information in the following table.

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>

**E. SMP Requirements (Six Minimum Control Measures) (Continued)**

6. Municipal Pollution Prevention/Housekeeping

Please place an "X" in the left boxes to complete the table below.

YES	NO	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The permit requires the permittee to enact a program to address pollution prevention/good housekeeping for Municipal Operations. Has such a program been enacted?

List all the municipal pollution prevention/housekeeping BMP's as identified in the SMP and provide the requested information in the following table.

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

6. Municipal Pollution Prevention / Housekeeping (Table) - Please fill out accordingly

List all of the municipal pollution prevention / housekeeping BMPs as identified in the SMP's and provide the requested information in the following table.

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
6.1	Spill control equipment is to be available at each refueling site.	Spill control kit available	Spill control kit is available at each refueling site.
6.2	Training on Spill Prevention, Control and Counter Measures (SPCC) Plan.	KDOT field employees attend training on Spill Prevention, Control and Counter Measures (SPCC) Plan.	KDOT's field employees are required to attend at least one safety meetings per year on topics of spills.
6.3	Keep Chemicals stored in a proper Chemical Storage area at Area/Sub Area	Observe proper storage of chemicals	Annual facility walk through is conducted. Inventory of all chemicals stored on site is taken and the facility review of the chemical storage location is conducted at the Area/Sub areas.
6.4	Salt and Salt/Sand mix are stored under cover	Salt and Salt/Sand mix are stored under cover	Salt and Salt/Sand mix are stored under cover.

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

6. Municipal Pollution Prevention / Housekeeping (Table) - Please fill out accordingly

List all of the municipal pollution prevention / housekeeping BMPs as identified in the SMP's and provide the requested information in the following table.

<b>BMP ID NUMBER</b>	<b>BRIEF BMP DESCRIPTION</b>	<b>MEASURABLE GOAL(S)</b>	<b>PROGRESS ACHIEVING GOAL(S) (MEASURED RESULT)</b>
6.5	Pre-season calibration of salt/sand spreader equipment	Calibration of spreader equipment.	Salt/Sand Spreader equipment was calibrated in September/October 2018 in preparation for the winter season.
6.6	Street Sweeping	Report the number of cycles	KDOT swept I-435 in August and October, I-35 in September in the Kansas City Area.
6.7	Utilize wash-bay for all equipment washing	Wash all equipment only in the wash-bay.	All equipment washed only in the wash-bay.

**E. SMP Requirements (Six Minimum Control Measures) (Continued)**

**7. PHASE ONE OPERATORS ONLY:** Monitoring Industrial and High Risk Runoff

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

Please place an “X” in the left boxes to complete the table below.

YES	NO	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the permittee developed and maintained a list of the municipal industrial facilities contributing to the pollutant loading to the MS4?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have at least two municipal industrial facilities on the list had inspection and sampling conducted?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If the answer to items 1 and 2 is “No,” provide a statement.

**F. Recordkeeping and Reporting**

Some permittees are required to monitor surface waters if the permit includes TMDL monitoring requirements for Specific Impaired Streams or Lakes to Target within Part II of the permit. Provide a current map of monitoring locations.

Example map and table below—Please fill out map and table on page 26 and adjust as needed.



Upstream Site: Farwell Street Bridge over Charles River

Downstream Site: Arsenal Street Bridge over Charles River

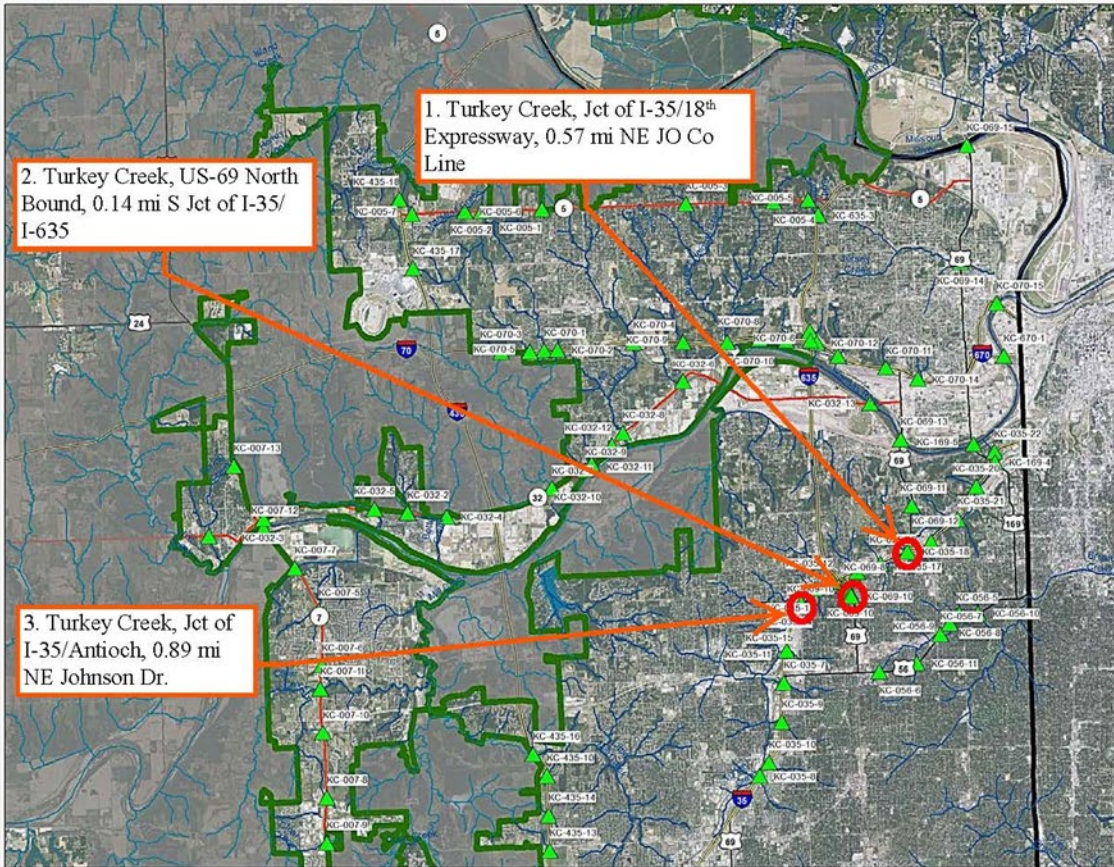


<i>Local Site Name</i>	<i>Farwell</i>	<i>Arsenal</i>
<i>Local Site Identifier</i>	<i>C1</i>	<i>C2</i>
<i>Sample Location Description</i>	<i>On the east side of this bridge is a pedestrian walkway where a rope and bucket is lowered to the middle of the river to obtain a sample.</i>	<i>From the bike path on the southeast end of the bridge a path extends down to the bank of the river. A 10 foot long sample pole with bucket at the end is used to reach out past littoral vegetation and obtain a sample.</i>
<i>KDHE EDMR Code if Known</i>	<i>Far2002C5</i>	<i>Arse1001C6</i>
<i>Lat/Long Data Decimal &amp; Degree Format</i>		
<i>Latitude</i>	<i>42.367056°</i>	<i>42358910°</i>
<i>Longitude</i>	<i>-71.218089°</i>	<i>-71161087°</i>

Map

# Kansas City Urbanized Area

North Kansas City Area



Please fill out map and table below accordingly and review the example map and table on the previous page for reference.

\*Please clearly label upstream and downstream sites

Local Site Name	Turkey Creek Jct. of I-35/18th Expressway	Turkey Creek US-69, Jct I-35/I-635	Turkey Creek Jct of I-35/Antioch	
Local Site Identifier	KC1	KC2	KC3	
Sample Location Description	Water sample obtained from the creek.	Water sample obtained from the creek.	Water sample obtained from the creek.	
KDHE EDMR Code if Know	TCI35001	TC69N001	TC35A001	
Lat. & Lon. Data Decimal - Degree Format				
Lat.	39.050435	39.038766	39.034226	
Long.	-94.647299	-94.670336	-94.686118	

The permit requires a final report on effectiveness of source controls and structural BMPs to achieve the measurable goals. The final report for this MS4 NPDES permit term addressing effectiveness of the Stormwater Management Program to achieve reduction in pollutant discharge from the MS4.

On the following pages address:

1. Effectiveness of pollutant source controls, e.g. public education, identification and elimination of illicit discharges, and the construction site stormwater runoff control program.
2. Address all other BMPs implemented (generally the structural BMPs) under the stormwater management program and address their effectiveness.
3. Summarize water quality test results, if such testing has been conducted, and address any trends or outliers, i.e., unusually high or low pollutant concentrations. As the data is somewhat limited (perhaps only data over the past five years), definitive conclusions may not be possible, however, if trends are observed, some adjustment in the Stormwater Management Program (SMP) may be justified.
4. Address any SMP modifications which will be considered and possibly implemented in the next few years (up to five years).

## Kansas City – Effectiveness of source controls and structural BMPs

1. The first step in pollutant source control is public awareness. KDOT has implemented BMPs designed to generate public awareness of stormwater pollutant source controls. KDOT maintains a stormwater management webpage, which describes the six minimum control measures and publishes KDOT's MS4 NPDES plans. It is important that the public be able to report to KDOT any observed illicit discharge on our right-of-way. The webpage provides the public with contact information for reporting an illicit discharge to KDHE and KDOT. KDOT's staff make regular surveillance of our ROW on a weekly to monthly basis. Their surveillance includes checking for illicit discharge.

KDOT issues an annual media release to the public encouraging participation in the Adopt-A-Highway program each May. The Adopt-A-Highway program gives the public an avenue to assist in picking up litter on the highway right-of-way thus reducing stormwater runoff pollutants. KDOT also offers a Sponsor-A-Highway program in the Kansas City Area. The Sponsor-A-Highway program provides business an opportunity to sponsor a third-party vendor to pick up litter and debris on the highway right-of-way.

In FY2018 KDOT spent \$3.25 million on litter and debris removal statewide.

KDOT staff and contractors attend construction stormwater runoff awareness and compliance training. This guides staff and contractors in compliance with stormwater runoff SWPPP plans. KDOT maintains a strong construction stormwater runoff control program.

2. KDOT has implemented several BMPs to manage pollutant source controls. KDOT maintains grass line ditches to hold the soil in place. The grass also works as a filter to filter out sediment in the stormwater. Locations that demonstrate higher levels of erosion are armored with riprap. Rock ditch checks are added where warranted to enhanced erosion control. These BMPs have served KDOT well in our effort to manage erosion in our right-of-way. KDOT has not identified any generator of nutrient and bacteria sources on right-of-way. KDOT will continue to monitor our right-of-way
3. KDOT has been conducting water quality testing since June 2016. These tests have consistently shown that KDOT is not contributing to the downstream pollutants in the creeks and rivers.
4. KDOT plans to continue with the current BMPs such as grass lined ditches, riprap and rock ditch checks. We will continue to monitor and adjust BMPs as conditions warrant.
5. Stormwater Sampling – KDOT pulled three sets of samples in FY 2018. Several factors restricted KDOT's success in pulling stormwater samples: lack of rain, personnel schedule and lab scheduling. Kansas experienced drought conditions through the summer. The lab experienced delays in supplying KDOT with stormwater sample kits, resulting in a missed sampling opportunity. The E-Coli test results are missing for the April – May samples due to a lab problem.

**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 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 2-25-19  
(Legally responsible person)

Name Printed: W. Clay Adams Title Bureau 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.

Please note the submission requirements on page 1. Submit this report to:

**KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT**

Municipal Programs Section  
1000 SW Jackson Street, Suite 420  
Topeka, Kansas 66612