

# Stormwater Management Plan

## City of Andover, KS



Effective: January 2024 – December 2026

Submitted in Compliance with the Requirements of  
Kansas Water Pollution Control General Permit  
Permit No. M-WA01-SU01

The City of Andover, Kansas (herein referred to as “we”) has prepared this Stormwater Management Plan to outline the measures we will take to reduce the discharge of pollutants from our Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act and our NPDES Permit.

This Plan is being submitted in compliance with the requirement of Kansas Water Pollution Control General MS4 Permit No. M-WA01-SU01 for the term beginning January 1, 2024 and ending December 31, 2026. This plan shall be evaluated annually and changes to this plan may be made as allowed by the permit and approved by KDHE.

Unless otherwise indicated, measure will be implemented for the entire City, regardless of whether such are part of an “urbanized area” as defined in the permit.

The City intends to engage in partnerships with other municipal, County, and regional organizations when possible to jointly accomplish portions of this work. And activity which is

completed by another entity as part of such partnerships and which applies to our population and jurisdiction will be counted towards our compliance.

## **Part A: Six Minimum Control Measures**

We plan to implement the following best management practices (BMPs) as part of the six control measures:

- 1. Public Education and Outreach** – 7 points for each calendar year for 2024-2026.
  - a. BMP ID Number – Lbmp P Ed & O – 01.** Maintain a stormwater webpage for the permittee. **2 Points**

Measurable Goal: Maintain the webpage with up to date information with all links effective and valid information. Check all links and update website as necessary on a minimum monthly basis. Document monthly checks in log book and indicate changes with logged summaries.
  - b. BMP ID Number – Lbmp P Ed & O – 02.** Distribute educational materials (either flyers, brochures, catalog mailings, handouts, or e-mails) addressing various pertinent stormwater public education topics. **2 Points**

Measurable Goal: Number of all flyers, brochures, catalog mailings, handouts, or e-mails distributed in a year shall equal or exceed the most recent U.S. Census Bureau decennial housing units value for the permit area. The applicable U.S. Census housing units value shall be documented, and the number of flyers, brochures, or e-mails distributed shall also be documented. This information and copies of the flyers, brochures, or e-mails shall be retained on file.
  - c. BMP ID Number – Lbmp P Ed & O – 04.** Apply notification, placard, covers/hatches with message, or stencil, on stormwater inlets to provide a message similar to "No Dumping - Drains to River". **2 Points**

Measurable Goal: Apply this notification on at least 10% of all known stormwater inlets in the MS4.

d. **BMP ID Number – Lbmp P Ed & O – 05.** Post the municipality's MS4 permit and SMP document on either the stormwater web page or the municipal webpage. **1 Point**

Measurable Goal: The two documents must be posted for at least six months of the year to claim one point.

e. **BMP ID Number – Lbmp P Ed & O - 06.** Provide either a stormwater telephone hotline or web based or text message method for public reporting of illicit discharges. **2 Points**

Measurable Goal: Respond to all reported complaints within 10 days and, if found valid, resolve or establish a schedule for resolution within 20 days. Actual resolution may take more than 20 days, but the schedule for resolution must be finalized and the efforts to implement resolution must begin within 20 days following receipt of complaint. Document complaints and response/resolution process for all complaints received in the year. Resolution of an illicit discharge can include, but is not limited to; elimination of the discharge; on-site treatment to allow discharge to the MS4 (normally requires an NPDES permit); redirecting the discharge to a location that the discharge is not considered illicit, i.e., sanitary sewer or to holding tanks to allow the waste to be hauled off for appropriate treatment, reuse/recycle or disposal.

f. **BMP ID Number – Lbmp P Ed & O – 15.** Develop or participate in an ongoing social media program on pertinent stormwater public education topics. **2 Points**

Measurable Goal: Publish or share social media content on the permittee's social media accounts at least six times per year. Record post topic, the number of impressions and engagement for each post. Include link to permittee's stormwater education website.

g. **BMP ID Number – Lbmp P Ed & O – 16.** Operate an information booth at a public event which is intended to improve public understanding of issues related to water quality. The event may be associated with any environmental related issue including but not limited to an environmental expo, earth day, world wetlands day, international day of action for rivers, world fish migration day, world biodiversity day, world oceans day, world



Measurable Goal: A \$500 contribution in a year is the minimum acceptable amount to achieve this goal.

- d. **BMP ID Number – Lbmp P I/P - 09.** Distribute stormwater educational materials to the public within this permit area. Alternately, the permittee may provide stormwater educational materials, e.g. brochures, flyers, or pamphlets. These materials may address various stormwater topics. For this, alternative these materials may be provided to other nearby municipalities for distribution to the public. The nearby municipalities must be within 30 miles from this permit area.  
**1 Point**

Measurable Goal: The educational, materials, for each topic, which are distributed or supplied must have a value of at least \$50. Topics may be anything related to stormwater including but not limited to clean-up guidance following flooding, discouraging littering, explaining and discouraging illicit discharges to the storm sewers, guidance on constructed BMPs for home owners (rain gardens/ rain barrels, etc.) guidance on area household hazardous waste receiving centers, and guidance on area recycling programs.

**3. Illicit Discharge Detection and Elimination** – 7 points for each calendar year for 2024-2026.

- a. **BMP ID Number – I D D & E - 04.** Implement a program to evaluate MS4 outfalls to identify illicit discharges. Inspect at least 5% of the known MS4 outfalls during a calendar year and evaluate the ones which have dry weather discharges. Evaluate the water quality of the dry weather discharges to recognize non-stormwater contributions and trace the source of any illicit discharge. **1 Point**

Measurable Goal: When at least 5% of the known MS4 outfalls are inspected and for which at least one outfall was identified as discharging (entirely or partially) flow from an illicit discharge, the allotted points may be claimed in the year when the illicit discharge is eliminated. Document the MS4 outfalls inspected, the outfalls with dry weather discharges and the MS4 outfalls associated with illicit discharges.

- b. **BMP ID Number – I D D & E - 06.** Inspect, by televising pipelines or direct visualization of open channel drainage, 2% of the MS4 system within the permit area all conducted within a 12-month period to aid in identifying illicit discharges as well as evaluate the condition of the storm sewer lines/drainage channels-

ditches. If in a 12-month period 10% of the MS4 system is inspected a higher point value may be claimed. **3 Points**

Measurable Goal: Generate a summary report of the inspection including the number of linear feet televised, number of linear feet visually inspected, condition comments, illicit discharges identified and the results of efforts to eliminate illicit discharges, e.g., discharge line disconnected and redirected to the sanitary sewer or discharge practice terminated.

- c. **BMP ID Number – I D D & E - 07.** Implement a Household Hazardous Waste Collection Program (HHWCP) or document others have implemented such a program to provide such service to all property owners or residents located within the permit area. **3 Points**

Measurable Goals: Document the residents and property owners within the MS4 permit area were able to dispose of such wastes at the HHWCP during a calendar year. Retain this documentation on file.

- d. **BMP ID Number – I D D & E - 10.** Inspect, 5% of the MS4 system Stormwater inlets and/or outfalls within the permit area all conducted within a 12-month period to aid in identifying illicit discharges. If in a 12-month period 15% of the MS4 system inlets and/or outfalls are inspected a higher point value may be claimed in the year the required percentage of inspections are completed. **3 Points**

Measurable Goals: Generate a summary report of the inspection including the number of inlets and/or outfalls visually inspected, condition comments, illicit discharges identified and the results of efforts to eliminate illicit discharges, e.g., discharge line disconnected and redirect to the sanitary sewer or discharge practice terminated.

- 4. **Construction Site Stormwater Runoff Control** – 6 points for each calendar year for 2024-2026.

- a. **BMP ID Number – C S S R C - 01.** Implement a requirement for a Soil Erosion and Sediment Control(SESC) Plan for any land Disturbance sites which are either equal to or greater than 1 acre or for which there is construction activity

disturbing less than one acre which is part of a larger common plan of development or sale that in total disturbs one acre or more. **2 Points**

Measurable Goal: Enact a regulatory ordinance, or other enforceable measure that requires an SESC Plan for all developments disturbing sites which are either equal to or greater than 1 acre or for which there is construction activity disturbing less than one acre which is part of a larger common plan of development or sale that in total disturbs one acre or.

b. **BMP ID Number – C S S R C - 04.** Develop a site plan review process which considers potential water quality impacts which may occur during construction as well as post construction impacts. **2 Points**

Measurable Goal: Review process must have written guidance for the reviewer. Issuance of a building permit or approval to start construction may not be provided until the site plan has successfully passed the review process either based on the initial site plan submittal or has been modified to comply with requirements identified during the review process. Measures must be included to enforce the installation of water quality BMPs included in the site plan.

c. **BMP ID Number – C S S R C - 05.** Establish effective requirements for construction sites to control wastes. Develop through ordinance or other enforceable means requirements for construction site Operator or owners to control wastes. At a minimum control shall be imposed to prevent entry into the MS4 for the following wastes; **2 Points**

1. Discarded building materials
2. Concrete truck washout
3. Chemicals
4. Litter
5. Sanitary Waste

Measurable Goal: Enact ordinance or other effective means to achieve control of wastes at construction sites.

d. **BMP ID Number – C S S R C - 06.** Develop written procedures for inspection of construction sites. Develop a Stormwater Construction Site Inspection Guide for use by municipal inspectors. **2 Points**

**Measurable Goal:** The procedures document must address the administrative aspects associated with required inspections of construction sites, the issuance of inspection reports, notices of violations, and enforcement actions. The Inspection Guide must provide inspectors guidance on how to conduct a construction site stormwater inspection, the required procedures, and guidance on acceptable conditions of various BMPs employed on such sites, enforcement actions and/or reference of cases for enforcement by other municipal staff, guidance on photo log of the inspection and inspection checklists for use by the inspector.

- e. Acquire or develop a software tracking system to track inspections and related tasks. **1 Point**

**Measurable Goal:** The tracking system must allow for scheduling and follow-up activities such as re-inspections, mailing notices or reports, etc.

## **5. Post-Construction Stormwater Management in New Development and Redevelopment – 7 points for each calendar year for 2024-2026.**

- a. **BMP ID Number – P-C S M - 01.** Develop and adopt a custom design manual for Post-Construction Stormwater Management which specifies various structural BMPs which are required for new development and redevelopment construction sites which have greater than 1 acre or for which there is construction activity disturbing less one acre which is part of a larger common plan of development or sale that in total disturbs one acre or more. **3 Points**

**Measurable Goal:** The custom design manual shall impose requirement to achieve at least one of the following standards:

- Capture, at least, the first 0.5 inches of precipitation on the development/redevelopment site and utilize methods to prevent discharge offsite, including but limited to:
  - Retain onsite
  - Infiltrate
  - Evaporate
  - Transpire or
  - Beneficially reuse
- Through implementation of appropriate BMP(s) reduce the peak stormwater flow rate to a value equal to or less than the rate which would be experienced on the site prior to the development or

redevelopment project based on project based upon modeling a standard storm event, e.g. 1.0 inch – 6- hour event assuming saturated soil conditions.

- Other sizing or detention standard generally accepted by design engineers as adequate for the permittee's local.

b. **BMP ID Number – P-C S M - 03.** Develop and implement a program to insure adequate long-term cleaning, operation and maintenance of all municipally owned or operated post construction structural stormwater BMP facilities. The program shall address several different types of these BMP systems. The systems which are addressed, shall include any type of post-construction structural BMP system, contained in the MS4. These shall include, if so present, at a minimum the following:

- > detention ponds
- > retention ponds
- > grass swales
- > pervious paving systems
- > wetlands
- > vegetative filter strips
- > manufactured stormwater Treatment devices (swirl separators, screens, etc.)
- > drop inlet-catch basin. **2 Points**

Measurable Goal: The program shall be detailed in a written a written document and made available to all pertinent maintenance staff.

c. **BMP ID Number – P-C S M - 05.** Develop and implement a program for inspection of permittee owned structural BMPs which includes implementation of needed maintenance to ensure long-term operation of the BMPs. **2 Points**

Measurable Goal: The program shall require inspection of at least 10% of the structural BMPs on an annual basis. Identified maintenance activities shall be completed:

1. in the same year of inspection or
2. completed as dictated by the permittee's maintenance/O&M plan
3. or a written plan for completion of the necessary maintenance shall be completed in the same year of inspection with the objective for completion of the maintenance activity within 18 months.

**6. Pollution Prevention/Good Housekeeping for Municipal Operations – 6 points for each calendar year for 2024-2026.**

- a. **BMP ID Number – Lbmp P P/G H – 02.** Implement a recycle and proper waste disposal program for municipal staff to reduce potential for litter, to recycle waste oil, batteries, glass containers, plastic containers, and paper products. **3 Points**

Measurable Goal: A log of the materials directed to recycle shall be maintained. Entries in the log shall record either weight or volume of recycle materials removed from the containers and transported to the recycle facility as well as the date of transport.

- b. **BMP ID Number – Lbmp P P/G H - 05.** Implement a program for street sweeping in which the street sweeping are collected, and disposed of properly or recycled/reused if possible. **3 Points**

Measurable Goal: All paved streets which can be swept shall be listed in the schedule for street sweeping. A log shall be maintained listing the street segments which are swept and, dates of sweeping and where the street sweepings are disposed or where the material was sent to be recycled and/or reused.

- c. **BMP ID Number – Lbmp P P/G H - 07.** Implement a program to inspect stormwater inlets to identify illicit, discharges and clean drop inlets of accumulated debris. **2 Point**

Measurable Goal: Inspect at least 5% of all inlets annually. Additionally, if 10% of all inlets are inspected in a year an additional point may be claimed.

For any inlets which have evidence of dumped paint, oil or other substances which are considered illicit discharges follow up with efforts to educate individuals near the impacted inlet about illicit discharges.

For inlets which have any accumulation of debris, remove the debris for proper disposal.

- d. **BMP ID Number – Lbmp P P/G H – 08.** Make updated online storm sewer map accessible to the public. **2 Points**

Measurable Goal: Map shall cover the entire MS4 within the permit area and include all the MS4 lines both pipe and open drainage (i.e. ditches) and shall also illustrate all impaired waterways (i.e. 303(d) listed and TMDL listed streams/rivers) with an indication of the listed impairment.

## **Part B: Total Maximum Daily Loads**

1. **Selection of Best Management Practices (BMPs)** – 6 points for each calendar year for 2024-2026.
  - a. **BMP ID Number – Lbmp T M D L - 01.** Install pet waste stations which include a glove/bag dispenser with signage and waste can to encourage pet waste disposal at either parks, trails, rest areas or other public lands owned by the permittee. **1 Point**

Measurable Goals: At least one pet waste station shall be installed in the selected park, trail, rest area or other public land. The station(s) shall include signage which encourages proper pet waste disposal/cleanup and a waste can.
  - b. **BMP ID Number – Lbmp T M D L - 05.** Develop a pet waste brochure or flyer document to educate the public about animal waste contamination of stormwater. The document encourages pet owners to pick up their pet's waste. Alternately, post the document on social media or the municipal website. **1 Point**

Measurable Goals: The brochures or flyers are to be posted in various public buildings and distributed throughout the year. In the year the number of documents shall equal or exceed the most recent U.S. Census Bureau decennial housing units value for the permit area. The applicable U.S. Census housing units value shall be documented, and the number of documents distributed shall also be documented. This information and copies of the documents shall be retained on file. Documents posted to social media or the website shall have the page copied and printed to retain on file.

- c. **BMP ID Number – Lbmp T M D L - 06.** Distribute “Only Rain Down the Drain” door hangers or similar document. **2 Point**

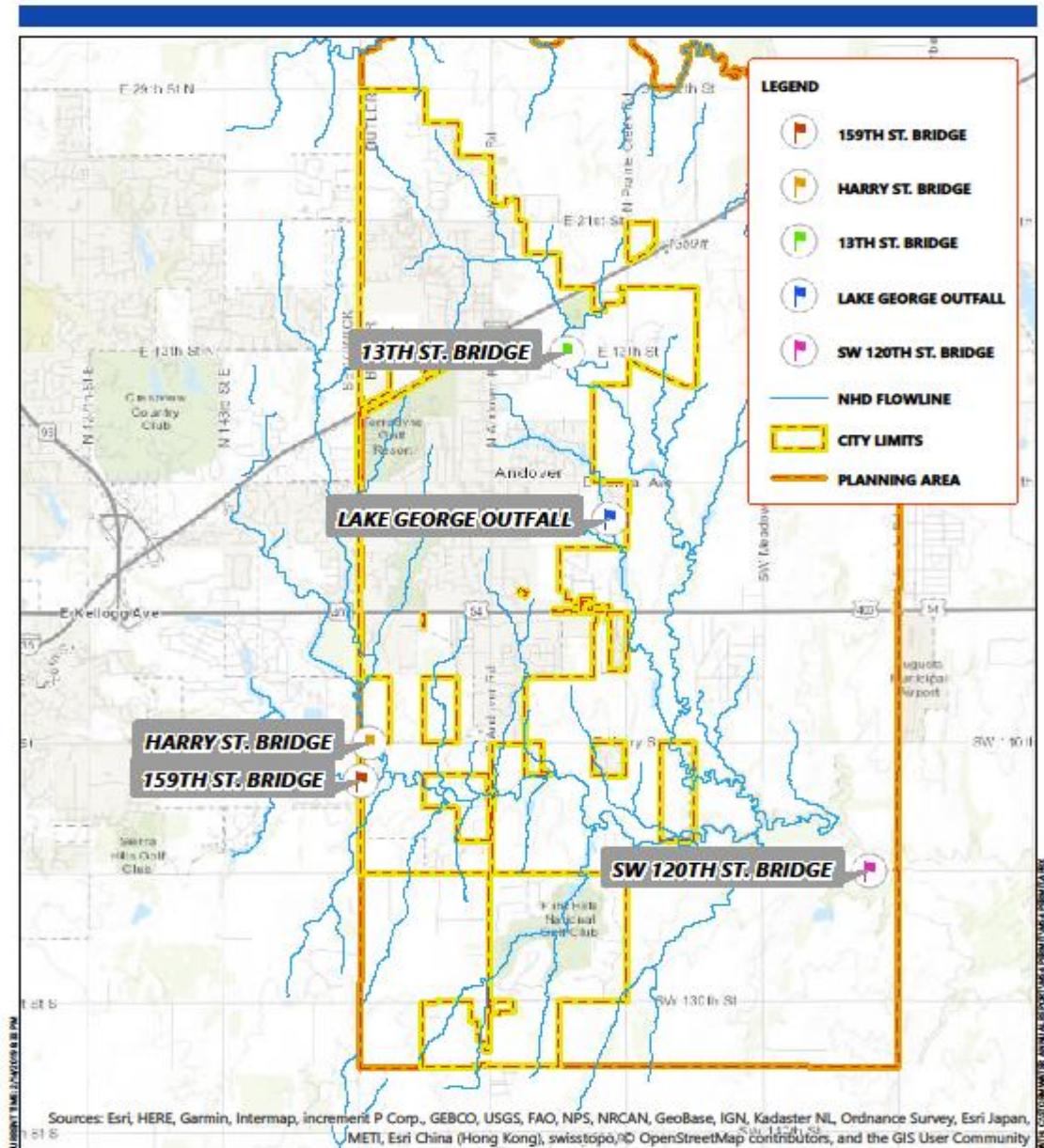
Measurable Goals: Provide in portions of the permit area with suspected illicit discharges. In the year the number of documents distributed shall equal or exceed 10% of the most recent U.S. Census Bureau decennial housing units value for the permit area. The applicable U.S. Census housing units value shall be documented, and the number of documents distributed shall also be documented. This information and copies of the documents shall be retained on file.

- d. **BMP ID Number – T M D L - 07.** Inspect 10% of all known MS4 outfalls for dry weather discharges either annually or twice per year to identify potential illicit discharges. **3 Points**

Measurable Goals: Complete inspection of 10% of all known MS4 outfalls, either annually or twice per year during dry weather periods. If dry weather discharge is found follow-up with investigation to determine if a portion or all the discharge is illicit. Document the findings and initiate efforts to eliminate any identified illicit discharges

## **Part C: Map of Permit Area**

Electronic maps including TMDL sampling locations and sampling results are made public and will be made public on the city website. An electronic map of the MS4 stormsewer will also be linked on the city website.



0 1 2 MILES

#### TMDL SURFACE WATER MONITORING LOCATIONS - SITE NAME

IT IS UNDERSTOOD THAT WHILE THE CITY OF ANDOVER GIS/MAPPING DEPARTMENT HAS NO INDICATION AND/OR REASON TO BELIEVE THAT THERE ARE INACCURACIES IN INFORMATION INCORPORATED IN THE MAP, THE CITY OF ANDOVER MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE INFORMATION, OR DATA DISPLAYED.