

Illinois Environmental Protection Agency
ANNUAL FACILITY INSPECTION REPORT
for NPDES Permit for Storm Water Discharges
from Municipal Separate Storm Sewer Systems (MS4)

Kane County, Illinois (NPDES Permit No. ILR400259)

March 1, 2024 - February 28, 2025

I. CHANGES TO BEST MANAGEMENT PRACTICES

There are no changes to the Best Management Practices for the six minimum control measures as described in the Notice of Intent for Kane County submitted on May 28, 2021.

II. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS

Kane County submitted a Notice of Intent on May 28, 2021, which initiated a new 5-year permit cycle. The BMPs listed in the 2016 Notice of Intent were selected to meet NPDES Phase II program requirements and minimize nonpoint source pollution in Kane County, Illinois.

The implementation progress for each of these BMPs is summarized below in sections A—F. All BMPs described in Kane County’s 2021 Notice of Intent have been implemented on or ahead of schedule, with the exception of select items noted in their descriptions below.

A. PUBLIC EDUCATION AND OUTREACH

1. BMP A.1—Distributed Paper Material

MEASURABLE GOALS	Include “Water Wise Corner” in the <i>Kane County Recycles Green Guide</i> , which is developed and distributed throughout Kane County on an annual basis. Revise “Water Wise Corner” every spring. Track the total number of recipients each year.
RESULTS	The bulk of distribution (16,000 print copies and further downloads) of the <i>Kane County Recycles Green Guide</i> for 2024 which included the “Clean Water for Kane” occurred in March-April 2024. A Recycling Program postcard with a QR code directing to the County Environmental and Water Resources website was printed and will be distributed in the spring of 2025.

KANE COUNTY'S 2025 RECYCLING EVENTS

MAJOR EVENTS

@ 540 S. RANDALL RD, ST CHARLES, IL
8AM – NOON

Spring Shred & More: Saturday, May 17

Confidential document shredding and reuse/recycling for clothing, textiles and home goods, books, bikes & paint

Recycling Extravaganza: Saturday, July 19

Recycling electronics, clothing & textiles, books, Styrofoam, batteries, bulbs, paint, bikes & more! (no shredding)

Fall Shred & More: Saturday, Sept. 27

Confidential document shredding and reuse/recycling for clothing, textiles and home goods, books, bikes & paint



**OUR EVENTS
WEBPAGE**

FIRST SATURDAY POP-UPS

ELECTRONICS, CLOTHING/TEXTILES, BOOKS

Aurora Ace Hardware (994 N. Lake St., Aurora)

9am - noon on April 5, Sept. 6, Oct. 4, Nov. 1, Dec. 6

Carpenter Park (275 Maple Ave., Carpentersville)

9am - noon on May 3

North Aurora PD (200 S. Lincolnway St., N. Aurora)

9am - noon on June 7

South Elgin DPW (1000 Bowes Rd., South Elgin)

9am - noon on August 2

Recycling Program Office:

(630) 208-3841

recycle@kanecountyil.gov



*Clean Water for Kane section of the
Kane County Recycles Green Guide for 2024*

MON – FRI RECYCLING CENTERS

Residents can drop off a variety of items at Kane County Recycling Centers five days a week, no appointment necessary!

517 E. Fabian Parkway, Geneva, IL; M-F, 8am - 4pm

900 Angle Tarn, West Dundee, IL; M-F, 7am - 3pm

These sites both accept household electronics, clothing, shoes and textiles, books, paper, cardboard, smoke and CO detectors, child car seats and strollers for recycling.

Fees apply for TVs and monitors (\$25 or \$35 depending on size), smoke and CO detectors (\$1 each), child car seats and strollers (\$15 each). Cash & card are accepted on site.

INTRODUCING RECYCLE COACH

Recycle Coach is a web tool and mobile app filled with local information to help Kane County residents recycle better. Can soup cartons be recycled through curbside collections? Where can you drop off Styrofoam to be recycled? The answers to these questions and more are in Recycle Coach! Use the QR code (right) to use Recycle Coach on our website or download for free through your chosen app store!

Demystifying Recycling, One Click at a Time!



**RECYCLE COACH
ON THE COUNTY
WEBSITE**



Kane County Recycling Program
719 S. Batavia Ave.,
Building A, Room 109
Geneva, IL 60134

PRSR STD
U.S. POSTAGE
PAID
PERMIT NO. 693
SAINT CHARLES, IL

2. BMP A.2—Speaking Engagement

MEASURABLE GOALS	<p>Provide educational presentations related to stormwater management on a regular basis through involvement in local watershed groups and other environmental committees, ensuring that a minimum of one public presentation is given per year. Track the number of speaking engagements, locations, topics presented, and number of attendees at each engagement.</p>
RESULTS	<p>Kane County Government’s Climate Action Implementation Plan (CAIP) focused on two major goals from August 2024. The actions below are ongoing and will continue over the next year.</p> <p>1) Establish and promote a program supporting the installation of low-flow water fixtures in residential homes and commercial businesses as well as opportunities for real-time water and energy metering that may help customers better understand and reduce their water and energy consumption. Program may be integrated or coordinated with Energy Audit/Energy Efficiency Program(s) in the Buildings and Energy section of this plan. Goal: achieve 500 households and 40 businesses upgraded annually</p> <p>Research was done on rebate programs in other states and municipalities which included several zoom meetings to learn more. More specifically, we spoke with a representative from Orbit about their smart irrigation systems. Following this, we have contacted Wasco Sanitary District about a pilot project. The project will include a number of high-end water users. They will receive the B-hyve Smart Indoor/Outdoor Sprinkler Timer and Kane will track the water usage over the course of a year. This will also be in conjunction with education and outreach through news and social media. At this time we are seeking participants who are interested and developing a timeline for launch.</p> <p>Our second action we focused on this year was</p> <p>2) Develop educational materials to support the goals of the Water and Wastewater section. Materials should create greater awareness and adoption of water conservation; expand public awareness of the value of watersheds, rain gardens and low-impact development to address storm water run-off; and covering the link between water resources and climate change and the risks to community residents and businesses.</p> <p>Social media posts regarding this initiative have been consistently ongoing. We have been conducting research on outreach and educational efforts across Kane County related to the action. Currently, we are assessing where gaps exist in these efforts in order to better identify the most impactful aspects that would contribute to raising greater awareness.</p>

3. BMP A.3—Public Service Announcement

MEASURABLE GOALS	<p>A public service announcement for the “Clean Water for Kane” campaign was developed in 2014, and is made available to the community through the Kane County website, special showings, and other digital media outlets.</p> <p>Track the number of PSA showings, locations, and audience reached each year.</p>
RESULTS	<p>During the permit year, the Clean Water for Kane website was updated and new information and links will be added in the upcoming months.</p> <p>The Clean Water for Kane information and flyers were presented at:</p> <ol style="list-style-type: none">1. Greenfest in Aurora Illinois on June 8th 2024 https://www.auroragreenfest.com/2. National night out at Kane County Judicial Center on August 5th https://www.shawlocal.com/kane-county-chronicle/2024/08/05/national-night-out-returns-to-kane-county-tuesday-evening/ <p>Kane County also has started a facebook page for sustainability posts. https://www.facebook.com/sustainkane/</p> <p>For example, a post was made on March 8th to bring awareness to National Groundwater Awareness Week and an Instagram 9 page slide was on September 7th to bring awareness to World Rivers Day</p>

March 9-15

National Groundwater Awareness Week

Importance of Groundwater

- Groundwater lies below earth's surface in gaps between soil & rock. We can access it through natural springs and by drilling wells to pump it out.
- Groundwater can be contaminated with natural chemicals (like arsenic), synthetic chemicals (like pesticides), and germs
- 44% of the population depends on groundwater as their main source of water
- The US uses 82.3 billion gallons/day of fresh groundwater

The EPA states the average household's leaks can result in 10,000 gallons of water wasted each year

If you have a private well, make sure to test your water at least once a year for harmful germs and chemicals

Tips to Conserve Groundwater:

- Fix drips and leaks
- Plant native plants in your yard
 - Natives plants require less water and fertilizer
- Reduce pesticide or chemical use
 - This will decrease the amount of chemicals running off into watersheds and groundwater
- Don't let water faucets run
 - Turn off the faucet while brushing teeth



National Groundwater Awareness Post



First Page of 9 Slides Bringing Awareness to World River Day

PSA on Kane County website

4. BMP A.4—Community Event

MEASURABLE GOALS	<p>Educate residents and other stakeholder groups on stormwater Best Management Practices through participation in environmental and watershed special events in the community, and regular community education/training events including the annual well and septic seminar hosted by the Kane County Health Department. Coordinate a minimum of one public educational workshop per year and participate in other community outreach events. Track the number of events, locations, information distributed, and number of participants for each event.</p>
RESULTS	<p>Kane County staff participated in the community events listed below during the permit year. Some community events were shifted online to “virtual events”.</p>

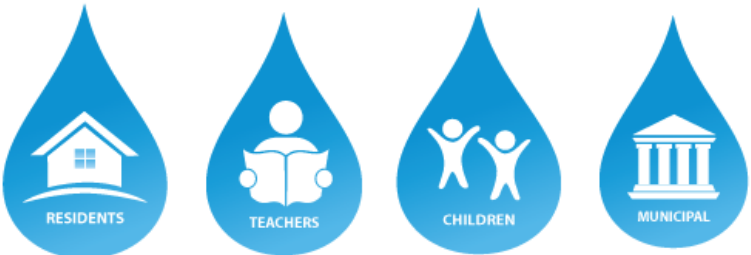
	<p>Stormwater educational handouts were distributed at the community events held in person and virtual links to the <i>Clean Water for Kane</i> website were made available for virtual events.</p> <ul style="list-style-type: none"> • One Earth Film Festival [04/23/2024, + 408 virtual and 37 in person registrants] • Kane County Rain Barrel Sale May 10th [5/19/2024, 65 sales] • Greenfest in Aurora Illinois on [07/09/2024 ~80 attendees] <p>The Kane County Health Department did not hold its annual Well & Septic educational event due to staffing shortages.</p>
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5. BMP A.5—Classroom Education Material

MEASURABLE GOALS	<p>Maintain a collection of stormwater-related educational materials for use in the classroom, and also reach students in the community through educational displays at libraries and other community venues. Update the classroom educational material database on an annual basis. Track the number of educational displays, locations, materials distributed, and number of students reached throughout the year.</p>
RESULTS	<p>During the permit year, the Kane County Department of Environmental and Water Resources updated the youth educational resource list available on the county website: https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/children.aspx as well as the teacher educational resource list available on the county website: https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/teachers.aspx</p> <p>A complete overhaul of the website with new links, videos and more information is planned for the upcoming months.</p> <p>The Department continued to provide educational materials—including water conservation coloring books and stickers, <i>Clean Water for Kane</i> rain gages, toilet leak detection tabs, pet waste tip cards, and outdoor water use brochures—to partner organizations, particularly the Forest Preserve District of Kane County and Friends of the Fox River for the Schweitzer Environmental Center. In addition, Flood awareness brochures were developed to support our Natural Hazard and Mitigation Plan and education efforts. https://www.kanecountyil.gov/sustainability/Pages/home.aspx</p> <p>Additionally, Kane County Department of Environmental and Water Resources allocated \$1500 of FY24 funding to Friends of the Fox River (FOFR) for their Classroom Educational Programming and pledges funding for FY25.</p>

	For all of Kane County, Friends of the Fox River organized student education through 28 field trips, 42 campus lessons and 18 afterschool programs, reaching a total of 1740 students.
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6. BMP A.6 – Other Public Education

MEASURABLE GOALS	<p>The Kane County Department of Environmental & Water Resources maintains a “Clean Water for Kane” website, and also develops seasonal stormwater-related informational articles that are distributed through the Kane County Connects e-newsletter, website, and social media pages. Update the “Clean Water for Kane” web pages on an annual basis. Track the number of stormwater-related articles in Kane County Connects, topics covered, and audience reach each year</p>
RESULTS	<p>During the permit year, the Kane County Department of Environmental & Water Resources updated the “Stormwater Education” pages on the County website. The site had 597 views during the permit year.</p> <p style="text-align: center;">Stormwater Education</p> <hr style="width: 50%; margin: auto;"/> <div style="text-align: center;">  <div style="display: flex; justify-content: space-around; margin-top: 5px;"> RESIDENTS TEACHERS CHILDREN MUNICIPAL </div> </div> <p><i>Stormwater Education page of the Kane County website:</i> www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx</p> <p>In addition, two water-related articles were published in <i>Kane County Connects</i>:</p> <ul style="list-style-type: none"> • Kane County's Sprout 'n' Spout Rain Barrel and Compost Bin Program is Back! [4/08/24] https://kanecountyconnects.com/article/rainbarrel-sustainability-recycling-kanecounty-environment-conservation • <i>Conserve Water for Kane - Kane County Water Conservation, Education, and Technical Assistance Program</i> [7/11/24] https://kanecountyconnects.com/article/KaneCounty-Water-Conservation <p><i>Kane County Connects reaches 21,500 newsletter subscribers and over 1.1K</i></p>

	followers on social media.
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7. BMP A.6 – Other Public Education

MEASURABLE GOALS	The Kane County Department of Environmental & Water Resources maintains a supply of “Kane County Streams” signs to be installed at road crossings throughout the County. Kane County will provide the signs to MS4 communities as requested for installation within their own municipal boundaries, and will maintain a database of signs manufactured and installed throughout the year.
RESULTS	During the permit year, no requests were made for additional stream signage and therefore no new signs were installed. Up to 100 signs will be <u>installed</u> during the next reporting period.

B. PUBLIC PARTICIPATION/INVOLVEMENT

1. BMP B.3—Stakeholder Meeting

MEASURABLE GOALS	Kane County is involved in watershed planning and management efforts that seek input from a variety of watershed stakeholders. Provide notice of stakeholder meetings on the Kane County website and distribute meeting information to stakeholder email lists. Track the number of watershed meetings hosted or co-hosted by the County, meeting locations, topics discussed, and participation numbers.
RESULTS	During the permit year, the following stakeholder meetings were held/attended by Kane County: <ul style="list-style-type: none"> Tyler Creek Watershed Coalition meetings – 3/20/24, 6/26/24, 7/17/24, 9/18/24, 11/20/24, 2/18/25

2. BMP B.5—Volunteer Monitoring

MEASURABLE GOALS	<p>Kane County continues to take a multi-level approach to supporting stream monitoring efforts by holding a leadership role in watershed groups carrying out monitoring work, as well as by providing financial support for local volunteer monitoring programs and river monitoring via USGS stream gages. Maintain Joint Funding Agreement with USGS and allocate funding for stream gages. Support local volunteer monitoring program. Track the number of leadership meetings attended and the funding provided on an annual basis.</p>
RESULTS	<p>Kane County staff served on the Board of Directors of the Fox River Study Group and as an advisor to the Fox River Ecosystem Partnership, attending the following meetings during the permit year:</p> <ul style="list-style-type: none">• Fox River Study Group Board meetings held via Zoom [3/28/24, 4/25/24; 5/23/24, 6/27/24, 7/25/24, 8/22/24, 9/26/24, 10/17/24, 10/31/24 (Annual Meeting), 11/21/24, 12/19/24, 1/23/25, 2/27/25]• Fox River Study Group Committee of the Whole meetings held via Zoom 7/11/24, 8/8/24, 9/12/24, 10/10/24, 11/14/24, 12/12/24, 1/9/25, 2/13/25]• Fox River Ecosystem Partnership meetings [3/14/24(Fox R. Summit), 5/8/24, 6/12/24, 7/10/24, 8/14/24, 9/11/24, 11/13/24, 1/8/25, 2/12/25] <p>In addition, the Kane County Department of Environmental & Water Resources provided financial support of \$500 to the Friends of the Fox River for their volunteer monitoring program in November 2024. Friends of the Fox River organized monthly creek sampling at Tyler, Otter and Ferson Creeks.</p> <p>A Joint Funding Agreement between Kane County and the U.S. Geological Survey was signed on 08/12/2024 and passed by Kane County Board on 09/10/2025 to cover the time period October 1, 2024, through September 30, 2025. Kane County has committed \$74,060 of FY25 funding to support five stream gages and four precipitation gages.</p>

3. BMP B.7—Other Public Involvement

MEASURABLE GOALS	Kane County will provide technical and financial support to the Friends of the Fox River and other local watershed groups to ensure that opportunities exist for public involvement in stream cleanup efforts. Allocate funding to support stream cleanups on an annual basis. Track the number of planning meetings or cleanup events attended by Kane County staff each year.
RESULTS	<p>The Kane County Department of Environmental & Water Resources provided \$500 in July 2024 to the Friends of the Fox River to support stream cleanups throughout the county. Friends of the Fox River organized 52 Watershed weekly publications with 2000 subscribers, 365 Facebook posts and nearly doubled their followers to 8000. Their website had 8083 views with 3666 active users and 4667 sessions. In addition, FOFR had 10 river cleanups in Kane County, throughout the permitting period as well ecological restoration events included 3 oak tree planting, and 6 mussel rescues.</p> <p>For the 6th annual “It’s our Fox River Day” FOFR reported over 32 separate events with 600 participants and 800 volunteers for 17 river cleanups of trash from in and around the Fox River and its streams.</p>

C. ILLICIT DISCHARGE DETECTION AND ELIMINATION

1. BMP C.1—Storm Sewer Map Preparation

MEASURABLE GOALS	<p>Kane County will update its storm sewer mapping in GIS to include the location and size of all County-owned stormwater outfalls to receiving streams in the urbanized area, and will distribute up-to-date mapping and information across County departments including the Facilities, Transportation, and Emergency Management departments. Update the stormwater system map layer on an annual basis to incorporate new stormwater outfalls identified.</p>
RESULTS	<p>During the permit year, the KCDEWR has made substantial improvements to the County's stormwater mapping resources. The County's stormwater mapping resources are now countywide (unincorporated and municipalities) and include all known storm sewers, culverts, drain tiles, and detention basins. Storm sewer mapping has expanded from 3125 miles in the last reporting period to 3,176 miles in this reporting period. Mapped storm sewer, culvert & tile segments increased from 140,000 segments in 2024 to more than 165,000 in 2025. Additionally, storm structures such as catch basins, inlets, manholes, and flared end sections have been added to the mapping dataset to include the total from 125,000 structures to 171,000+ structures through the Feb 2025 reporting period. During the reporting period, mapped stormwater detention basins increased from 3,337 to 3,423.</p> <p>The KCDEWR worked with the County GIS Dept. to update the Kane County Stormwater Viewer, which is an on-line interactive map of all stormwater infrastructure and related water resources data for the entire county (floodplains, wetlands, hydric soils, etc.). The viewer can be found at the link below:</p> <p>https://experience.arcgis.com/experience/094fedf250d34bf19cb22881ddb2d66d/</p> <p>The Stormwater Viewer also contains a high-resolution stormwater flow tracing tool that allows a user to accurately trace stormwater downstream to the major rivers (Fox River on the east; out to Kishwaukee River to the west). In 2024, the watershed delineation tool was also added which allows users to accurately map the upstream tributary area from any point in the county. These tools have a number of uses, but are particularly useful to persons conducting IDDE investigations and accidental spill mitigation.</p> <p>A Users Guide for how to access the stormwater map layers and use the tools is accessible on the Stormwater Viewer's start-up disclaimer page.</p>

2. BMP C.2—Regulatory Control Program

MEASURABLE GOALS	<p>Kane County will utilize regulatory authority to prohibit, inspect, and follow-up with enforcement for illegal discharges into the County's MS4 by following established procedures at the Kane County Health Department. Track the number of illicit discharges identified on an annual basis and document the actions taken to eliminate the discharges.</p>																
RESULTS	<p>The Kane County Health Department has continued to enforce its regulatory authority to prohibit, inspect, and follow-up with enforcement for illegal discharges into the County’s MS4. The Health Department investigated 24 septic system complaints.</p> <p>KC Environmental & Water Resources Dept investigated 6 potential illicit discharges during the reporting period.</p> <p>KANE COUNTY ILLICIT DISCHARGE INCIDENT TRACKING</p> <p>Period: March 2023 - February 20243</p> <table><tr><th>Date</th><th>Location</th><th>Issue</th><th>Outcome</th></tr><tr><td>4/26/24</td><td>35W260 Crescent Dr Dundee Township</td><td>Residential property with report of motor oil leaking from parked car.</td><td>KCDEWR investigated and noted two vehicles with small oil leak residue under them but did not observe any evidence of oil reaching the adjacent ditch as suggested by the complainant. Vehicle owner was advised to maintain and park vehicles on his driveway and not on the street that has no curb or gutter.</td></tr><tr><td>8/19/24</td><td>19N683 Niccon Trail Dundee Township</td><td>Landowner complaint about blue dye in Pokagon Creek passing through her property</td><td>KCDEWR investigated and determined the dye came from an approved aquatic herbicide application into an upstream reach of the creek under jurisdiction of the Village of Algonquin. The contractor (RES) was treating invasive Watercress in the section of stream that was recently stabilized by the Village.</td></tr><tr><td>9/10/24</td><td>1685 Sheffer Rd, Aurora Township</td><td>Residential property with report of sump pump discharge containing washing machine water.</td><td>KCDEWR investigated and determined washing machine water was likely being discharged through one of two sump pump discharges noted for the property. Landowner was contacted and required to re-route the suspected washing machine discharge to their septic system</td></tr></table>	Date	Location	Issue	Outcome	4/26/24	35W260 Crescent Dr Dundee Township	Residential property with report of motor oil leaking from parked car.	KCDEWR investigated and noted two vehicles with small oil leak residue under them but did not observe any evidence of oil reaching the adjacent ditch as suggested by the complainant. Vehicle owner was advised to maintain and park vehicles on his driveway and not on the street that has no curb or gutter.	8/19/24	19N683 Niccon Trail Dundee Township	Landowner complaint about blue dye in Pokagon Creek passing through her property	KCDEWR investigated and determined the dye came from an approved aquatic herbicide application into an upstream reach of the creek under jurisdiction of the Village of Algonquin. The contractor (RES) was treating invasive Watercress in the section of stream that was recently stabilized by the Village.	9/10/24	1685 Sheffer Rd, Aurora Township	Residential property with report of sump pump discharge containing washing machine water.	KCDEWR investigated and determined washing machine water was likely being discharged through one of two sump pump discharges noted for the property. Landowner was contacted and required to re-route the suspected washing machine discharge to their septic system
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	3/15/24	Mahoney Creek at Kirk Road City of Batavia	KCDWER/KDOT staff noted patches of foam coming from KDOT storm sewer outfall in City of Batavia jurisdiction stemming from a previous foam chemical spill in the City.	KCDEWR contacted KDOT and City of Batavia. City responded that they would contact the Flint Group, who caused the original unpermitted foam release, and they would have their spill cleanup contractor investigate and clean up any remaining foam residue in the creek.
	8/19/24	7 th Ave Creek at Riverside & Moore Ave City of St Charles	Resident reported bleach smell in water flowing into creek.	KCDEWR contacted City of St Charles who determined that the discharge was from a water main leak (hence the chlorine smell) and had directed its public works department to respond.
	12/4/24	Fox River City of Elgin	Public reports & video of blue/green color emanating from a storm outfall under the City bus station just south/downstream of Highland Ave Bridge	KCDEWR contacted City of Elgin who, along with their Fire Department responded to the report.

3. BMP C.10—Other Illicit Discharge Controls

MEASURABLE GOALS	Kane County's Environmental Health staff are trained to identify potential illicit discharges to the County's MS4 and to follow the established procedures for eliminating the discharges. Conduct illicit discharge detection training for Environmental Health staff on an annual basis. Track the number of staff trained and total hours of training received.
RESULTS	Kane County Health Department did not hold any well & septic staff training sessions during the reporting period due to staffing shortages.

D. CONSTRUCTION SITE RUNOFF CONTROL

1. BMP D.1—Regulatory Control Program

MEASURABLE GOALS	The Kane County Stormwater Management Ordinance addresses all requirements of the Construction Site Runoff Control measures, D.1-D.7. Implement and enforce the Kane County Stormwater Ordinance, maintaining and updating program documentation annually.
RESULTS	During the permit year, 70 Stormwater Permit Applications were submitted to the County. All of these proposed projects were reviewed with consideration of Construction Site Runoff under the requirements of the Kane County Stormwater Management Ordinance. Permits are digitally tracked in the Kane County – CityView system, in addition to a digital copy, the County maintains a complete folder of the permits and plans for Stormwater Permit Applications.

E. POST-CONSTRUCTION RUNOFF CONTROL

1. BMP E.2—Regulatory Control Program

MEASURABLE GOALS	The Kane County Stormwater Management Ordinance addresses all requirements of the Post-Construction Runoff Control measures, E.1-E.7. Implement and enforce the Kane County Stormwater Ordinance, maintaining and updating program documentation annually.
RESULTS	During the reporting period, 60 Stormwater Permits were issued. Post-Construction Runoff Control measures were implemented on these projects under the requirements of the Kane County Stormwater Management Ordinance. This included 31 permits requiring a Stormwater BMP (structural feature to infiltrate first 1" of stormwater runoff from new impervious surfaces) and 12 permits requiring stormwater detention for the 100-year design storm event. Permits are digitally tracked in the Kane County – CityView, in addition to a digital copy the County maintains a complete set of the permits and plans for Stormwater Permit Applications.

F. POLLUTION PREVENTION/GOOD HOUSEKEEPING

1. BMP F.1—Employee Training Program

MEASURABLE GOALS	Kane County will provide stormwater management training opportunities to County staff as well as other MS4 communities by coordinating a regular "MS4 Corner" e-newsletter, as well as by hosting webcasts. Maintain an email contact list for MS4 community representatives, and distribute the e-newsletter on a minimum of a quarterly basis. Host stormwater informational webcasts as relevant, tracking the number of trainings provided and the number of attendees.
RESULTS	<p>During the permit year, the Kane County Department of Environmental & Water Resources issued 3 issues of the "MS4 Corner" newsletter were created and distributed to the contact list during the reporting period [Distributed on: April/24, May/24 and Sept/24].</p> <p>April 2024 Issue</p>



2024 Stormwater Webcast Education

Mark your calendars – The Kane County Department of Environment and Water Resources will host 3 educational webcasts from the Center for Watershed Protection (CWP) during the 2024 year.

These FREE webcasts are open to all municipal staff and environmental partners in Kane County.

The webcasts will be again this year. Please email HinshawSarra@kanecountyIL.gov to receive information for accessing the webcasts and their recordings:

Webcast 4: Design with Maintenance in Mind

Wednesday May 15, 2024 at 1 PM Eastern Time

Speaker: Derek Berg, Director- Stormwater Regulatory Management – East, CONTECH Engineered Solutions LLC

	Description: TBD
	Webcast 8: Agriculture and Watershed Management Wednesday October 23, 2024 at 1 PM Eastern Time
	Speakers: Lisa Blazure and Amanda Cather
	Description: TBD
	Webcast 9: Green Infrastructure Wednesday November 20, 2024 at 1 PM Eastern Time
	Speakers: Michael Radabaugh, Stormwater Division KC Water
	Description: This presentation shows how KCMO set about remediation of private Green Infrastructure from unmaintained or undermaintained to functional as designed assets. Utilizing existing laws and enforcement mechanisms. Attendees will see the step-by-step process Kansas City uses for handling deficiencies in regard to the privately owned Green Infrastructure improving Stormwater Quality and Quantity handling. Better minimizing flooding downstream of unmaintained or undermaintained facilities. The presenter found that Kansas City had laws in place to solve flooding and erosion from upstream development post construction that were not being utilized and leveraged for the good of the Citizenry. "I'm from the City and I'm here to help."

2024 Kane County Natural Hazard Mitigation Plan

Kane County Office of Emergency Management and Kane County Department of Environmental and Water Resources, in conjunction with the participating cities and villages, completed the 5-year update of the [Kane County Natural Hazard Mitigation Plan](#).

Purpose of the Hazard Mitigation Plan

- Ensure Kane County, Illinois and the participating cities and villages qualify for federal funding, before and after a disaster occurs.
- Identify common threats and hazards the County faces.
- Develop common mitigation strategies, ensuring a comprehensive and county-wide approach is used.
- Develop intergovernmental partnerships within the County.
- Gain public insight and share public information, increasing residents' knowledge and preparedness against the County's threats and hazards.

If you would like to get in touch with the project team, please email Anne Wilford, CFM at WilfordAnne@KaneCountyIL.gov



The Fox River Ecosystem Partnership and Fox Watershed Partners are sponsoring the environmental film: [Carbon: The Unauthorized Biography](#) for the One Earth Film Festival. This is a virtual screening event will be held on April 23, 2004 at 6:00pm. Donations are welcome and you can get your free tickets [here](#).

Sarra Hinshaw Ph.D
Sustainability Manager
Kane County Environmental & Water Resources Department
Ph: 630-208-8665



During the permit year, Kane County hosted the following webcasts from the Center for Watershed Protection virtually:

- [Design with Maintenance in Mind \[5/15/24\]](#)

	<ul style="list-style-type: none"> • <i>Agriculture and Watershed Management [10/23/24]</i> • <i>Green Infrastructure [11/20/24]</i> <p>In addition, Kane County Environmental & Water Resources staff participated in the following training opportunities provided by other entities:</p> <ul style="list-style-type: none"> • <i>Illinois Association of Floodplain & Stormwater Management Annual Conference in Peoria IL [3/12/24-3/13/24; 3 staff attended]</i>
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2. BMP F.2—Inspection and Maintenance Program

MEASURABLE GOALS	Kane County will continue its established Operation and Maintenance Program – which includes the Department of Transportation clearing roadside swales once a year, and inspecting and cleaning catch basins and storm inlets quarterly. Kane County will also develop and adhere to an annual inspection and maintenance schedule for BMPs installed on County properties, and will utilize available tools to implement a BMP Inventory & Evaluation Program. Inspect and maintain roadside swales, catch basins and storm inlets, and BMPs on County properties according to schedule, documenting pollutant load reduction on an annual basis.
RESULTS	<p>During 2024, the Kane County Department of Transportation swept approximately 150 miles of curbing and 42 bridge decks. Sweeping was done twice – once in the spring and once in the fall.</p> <p>KDOT cleaned out approximately 275 catch basins on south Randall Rd and Orchard Rd.</p> <p>KCDEWR continues to update its BMP Inventory & Evaluation spreadsheet (see section III) to track data for BMPs installed on Kane County owned properties.</p>

3. BMP F.4—Municipal Operations Waste Disposal

MEASURABLE GOALS	Kane County will follow established procedures to maintain buildings, fleet vehicles, and equipment. Procedures include the proper disposal of wastes from municipal operations, in compliance with all local, State, and Federal regulations. Kane County departments will continue to recycle all types of used oil, antifreeze, oil filters, tires, batteries, scrap metal, and cardboard. Perform fleet inspections and recycle hazardous materials on an ongoing basis, documenting compliance with the procedures annually.
RESULTS	The Kane County Department of Transportation continues to follow established vehicle maintenance and proper waste disposal procedures, maintaining internal records of these activities using CFA (Computerized Fleet Analysis) Software for

	<p>fleet tracking.</p> <p>KDOT vehicles are inspected according to the following schedule:</p> <ul style="list-style-type: none"> • Heavy trucks (snow plows, etc.)—every 2000 miles or 180 days • Light trucks and cars—every 5000 miles or 90-180 days • Heavy off-road equipment—every 50 hours or 180 days • Light off-road equipment—every 50 hours or 180 days <p>KDOT also took part in a county organized tire recycle program, recycling over 100 tires from either KDOT fleet vehicles or tires found in the county right-of-way.</p>
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4. BMP F.5—Flood Management/Assessment Guidelines

MEASURABLE GOALS	<p>Kane County will continue to implement the Kane County Hazard Mitigation Program as outlined in the Plan. Host two Hazard Mitigation Committee meetings per year to coordinate ongoing implementation of the plan.</p>
RESULTS	<p>The Kane County 2024 Kane County Natural Hazard Mitigation Plan was finalized in March 2024. http://www.kcoem.org/Pages/mitigation.aspx</p> <p>4 brochures were made to highlight extreme weather events including Winter Preparedness Flooding Awareness Extreme Heat Drought https://www.kanecountyil.gov/sustainability/Pages/home.aspx</p> <p>The Kane County Office of Emergency Management and Kane County Department of Environmental & Water Resources continue to coordinate the implementation of the <i>Kane County Natural Hazards Mitigation Plan</i>, which was first adopted in 2003 and updated in 2015. The Natural Hazards Mitigation Planning Committee along with a consultant, paid for through an HPMG grant fund awarded by FEMA to the County, has updated the 2015 Plan. The 2024 Plan was approved by FEMA on April 1, 2024 and adopted by the County Board on June 11, 2024.</p> <p>The Natural Hazard Mitigation Planning Committee held a meeting on November 15, 2024, which the public was invited to attend, along with the participating communities' planners, engineers and emergency management staff.</p> <p>In addition, the Kane County Department of Environmental & Water Resources worked on 6 cost-share project to reduce flooding on unincorporated residential properties: Sylvanna Drive Drainage Improvements Design 2025 Construction in 2026 Montague Forest: Juliet Dr – Design in 2025 Construction in 2026</p>

	<p>Lenschow Rd Drainage Improvements – Construction completed in 2024.</p> <p>Marney-Kelley Hampshire– design phase, construction 2025-2026</p> <p>Countryside Tile & Culvert Replacement – Kaneville Twp – construction 2024 & 2025</p> <p>Wildwood West – Chisholm Trail construction completed Fall 2024</p>
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5. BMP F.6—Other Municipal Operations Controls

MEASURABLE GOALS	<p>Kane County will implement Road Salt Application and Storage procedures to minimize salt washoff into the County’s MS4. Train staff on deicing and salt management procedures on an annual basis. Track the number of training events and participants each year.</p>
RESULTS	<p>The Kane County Department of Transportation provides continual training on salt application and storage procedures via staff manuals. All KDOT winter truck staff attended the 2024 deicing workshop for sensible salting. Supervisors attended the APWA Winter maintenance supervisor workshop. KDOT calibrates trucks yearly to ensure the proper salt dispensing rate, equips each salt truck with a reference table the driver can use to determine the optimal rate of pounds of salt dispensed per lane mile, and stores salt indoors throughout the year to minimize concentrated salt wash off into the MS4. KDOT responded to 34 winter events using 6,500 tons of salt for the season. KDOT supervisors also utilize GPS software to track salt usage to minimize salt over-application.</p>



2024 Deicing Workshops

Reminder - Deicing Workshops are happening now. Sign up today.
<https://saltsmart.org/workshops/>

The 2024 workshops aim to help personnel from municipalities and public works facilities implement Best Management Practices (BMPs) to reduce the amount of salt they use in snow fighting operations and to address NPDES Permit Requirements.

This year the workshops are offered both in person and online. All in-person workshops are from 8AM to Noon. Breakfast is included and begins at 7:30.

Public Roads

Tuesday, September 17th
 IN PERSON - City of Aurora
 1200 E. Indian Trail Road, Aurora
[Register - 9/17](#)

Tuesday, September 24th
 IN PERSON - Lake County
 500 W. Winchester Road, Libertyville,
 2nd Floor Conference Rm
[Register - 9/24](#)

Thursday, October 3rd
 IN PERSON - Village of Homewood
 1023 191st St, Homewood
[Register - 10/3](#)

Parking Lots & Sidewalks

Thursday, September 26th
 VIRTUAL
[Register - 9/26](#)

Tuesday, October 1st
 IN PERSON - Streamwood Park
 District
 700 W. Irving Park Road,
 Streamwood
[Register - 10/1](#)

Kane County Parking Lots and Sidewalks Deicing Workshop flyer

III. RESULTS OF INFORMATION COLLECTED AND ANALYZED

No monitoring data was collected and analyzed during the reporting period. Per Attachment B. of the 2016 Notice of Intent, Kane County has elected to implement a BMP Inventory & Evaluation Program in lieu of monitoring (Note: Kane County continues to participate in the Fox River Study Group, Inc., a non-profit organization who is performing on-going watershed-wide water quality monitoring and modeling to address impairments in the Fox River <https://www.foxriverstudygroup.org/>)

During the permit year, the “MS4 Non-Point Source Control Measure Tracking Tool” provided by the Fox River Study Group was used to calculate annual pollutant load reduction for the following BMPs on Kane County government-owned properties. Previously constructed BMPs (wet detention basins) were added into the inventory. Nine new structural BMPs were constructed on Kane County government-owned property in Mar 2024 – Feb 2025. These were wetland-style stormwater detention basins – 9 in Big Rock Township built for the Dauberman Road Extension Project (see table below).

MS4 Non-Point Source Control Measure Tracking Tool												
Fox River Watershed, Illinois												
MS4	Project Name	Project Cost	Project Type	Total Area Captured (acres)	% Urban High Density	% Low-Medium Density	% Urban Open Space	Area-Weighted UAL (lb/acre/yr)	Load (lb)	Removal Efficiency	Total Load Removed (lb/yr)	Cost per Pound P Removed (\$/lb)
Kane county	KC Govt Center PICP Parking Lot	\$250,000	Bioretention	0.99	100%	0%	0%	0.98	1.0	65%	0.6	\$398,408
Kane county	KC Govt Center Rain Garden	\$25,000	Bioretention	0.4	75%		25%	0.79	0.3	65%	0.2	\$121,768
Kane county	KC Circuit Court Clerk Parking Lot Bioretention Basins (2)	\$35,000	Bioretention	1.3	95%		5%	0.94	1.2	65%	0.8	\$44,156
Kane county	KDOT Building Expansion Detention Basin	\$25,000	Dry detention	1.1	75%		25%	0.79	0.9	26%	0.2	\$110,698
Kane county	KDOT Storage Yard Detention Basin	\$15,000	Dry detention	3.25	100%			0.98	3.2	26%	0.8	\$18,204
Kane county	KC Judicial Center Pond	\$250,000	Wet detention	250	20%		80%	0.38	95.4	68%	64.9	\$3,854
Kane county	KDOT Detention at Big Timber & Toad Farm Rd in Elgin Twp	\$25,000	Dry detention	27	90%		10%	0.90	24.3	26%	6.3	\$3,953
Kane county	KC Multi-Use Facility Detention Basin	\$430,000	Wet detention	6	75%		25%	0.79	4.7	68%	3.2	\$133,467
Kane county	KDOT Stearns Rd Det 09-0009	\$100,000	Wet detention	7.25	40%		60%	0.53	3.8	68%	2.6	\$38,274
Kane county	KDOT Stearns Rd Det 09-0010	\$250,000	Wet detention	17.8	40%		60%	0.53	9.4	68%	6.4	\$38,973
Kane county	KDOT Stearns Rd Det 09-0011	\$100,000	Dry detention	5.9	30%	30%	40%	0.53	3.1	26%	0.8	\$122,444
Kane county	KDOT Stearns Rd Det 09-0012	\$100,000	Wet detention	6.6	30%		70%	0.46	3.0	68%	2.0	\$48,887
Kane county	KDOT Stearns Rd Det 09-0013	\$150,000	Wet detention	11.4	40%		60%	0.53	6.0	68%	4.1	\$36,511
Kane county	KDOT Stearns Rd Det 09-0014	\$100,000	Wet detention	22.6	40%		60%	0.53	12.0	68%	8.1	\$12,278
Kane county	KDOT Fabyan Pkwy Det 12-003	\$50,000	Wet detention	3.8	100%			0.98	3.7	68%	2.5	\$19,843
Kane county	KDOT Fabyan Pkwy Det 12-004	\$75,000	Wet detention	2	50%		50%	0.60	1.2	68%	0.8	\$91,278
Kane county	KDOT LM Pkwy Det 03-001	\$150,000	Wet detention	18.5	50%		50%	0.60	11.2	68%	7.6	\$19,736
Kane county	KDOT LM Pkwy Det 03-002	\$100,000	Wet detention	6	85%		15%	0.86	5.2	68%	3.5	\$28,373
Kane county	KDOT LM Pkwy Det 03-003	\$150,000	Wet detention	17.3	75%		25%	0.79	13.7	68%	9.3	\$16,147
Kane county	KDOT LM Pkwy Det 03-004	\$75,000	Wet detention	5	75%		25%	0.79	3.9	68%	2.7	\$27,935
Kane county	KDOT LM Pkwy Det 03-005	\$50,000	Wet detention	3.8	75%		25%	0.79	3.0	68%	2.0	\$24,504
Kane county	KDOT LM Pkwy Det 03-006	\$150,000	Wet detention	19.5	30%		70%	0.46	8.9	68%	6.0	\$24,820
Kane county	KDOT LM Pkwy Det 03-007	\$150,000	Wet detention	18.5	85%		15%	0.86	16.0	68%	10.9	\$13,803
Kane county	KDOT LM Pkwy Det 03-008	\$200,000	Wet detention	13.4	70%		30%	0.75	10.1	68%	6.9	\$29,166
Kane county	KDOT Dauberman Rd Det 13-001	\$200,000	Wet detention	6.9	85%		15%	0.86	6.0	68%	4.1	\$49,344
Kane county	KDOT Dauberman Rd Det 13-002	\$200,000	Wet detention	5.75	85%		15%	0.86	5.0	68%	3.4	\$59,213
Kane county	KDOT Dauberman Rd Det 13-003	\$150,000	Wet detention	2.7	85%		15%	0.86	2.3	68%	1.6	\$94,577
Kane county	KDOT Dauberman Rd Det 13-004	\$225,000	Wet detention	5.2	85%		15%	0.86	4.5	68%	3.1	\$73,661
Kane county	KDOT Bliss Rd Det 11-001	\$100,000	Wet detention	10.1	85%		15%	0.86	8.7	68%	5.9	\$16,855
Kane county	KDOT Bliss Rd Det 11-002	\$100,000	Wet detention	9.7	85%		15%	0.86	8.4	68%	5.7	\$17,550
Kane county	KDOT Dauberman Rd Det 13-005	\$100,000	Wet detention	1.1	85%		15%	0.86	1.0	68%	0.6	\$154,762
Kane county	KDOT Dauberman Rd Det 13-006	\$100,000	Wet detention	1.15	85%		15%	0.86	1.0	68%	0.7	\$148,033
Kane county	KDOT Dauberman Rd Det 13-007	\$150,000	Wet detention	2.4	85%		15%	0.86	2.1	68%	1.4	\$106,399
Kane county	KDOT Dauberman Rd Det 13-008	\$100,000	Wet detention	0.7	85%		15%	0.86	0.6	68%	0.4	\$243,198
Kane county	KDOT Dauberman Rd Det 13-009	\$100,000	Wet detention	0.8	85%		15%	0.86	0.7	68%	0.5	\$212,798
Kane county	KDOT Dauberman Rd Det 13-010	\$100,000	Wet detention	0.65	85%		15%	0.86	0.6	68%	0.4	\$261,905
Kane county	KDOT Dauberman Rd Det 13-011	\$100,000	Wet detention	0.65	85%		15%	0.86	0.6	68%	0.4	\$261,905
Kane county	KDOT Dauberman Rd Det 13-012	\$175,000	Wet detention	1.3	85%		15%	0.86	1.1	68%	0.8	\$229,167
Kane county	KDOT Dauberman Rd Det 13-013	\$100,000	Wet detention	1	85%		15%	0.86	0.9	68%	0.6	\$170,238

An electronic copy of this inventory is available upon request.

IV. SUMMARY OF ANTICIPATED ACTIVITIES DURING NEXT REPORTING CYCLE

- During the upcoming permit year, Kane County staff will continue work to implement the LEED for Cities and Communities monitoring and reporting platforms, which include components on water quality, ecosystem health, waste management, and resiliency. This will provide Kane County the opportunity to further articulate efforts being made to improve water quality and the connection of these efforts to other initiatives throughout the County.
- As many as 100 stream signs will be installed across Kane County.
- Smart irrigation meters will be installed in high end water users for a pilot project
Additional middle and high school presentation are anticipated for fall 2025

V. RELIANCE ON ANOTHER GOVERNMENTAL ENTITY

Kane County is not relying on another governmental entity to satisfy NPDES permit obligations.

VI. CONSTRUCTION PROJECT LIST

The following Kane County road construction projects were active during the permit year of March 2024—February 2025:

Section Number	Project Name	Project Cost
24-00000-01-GM	2024 Pavement Preservation Patrol	\$ 762,463.20
24-00000-02-GM	2024 HMA and PCC Crack Sealing Patrol	\$ 264,663.80
24-00000-03-GM	2024 Paint Pavement Marking Patrol	\$ 808,981.93
24-00000-04-GM	2024 Urethane Pavement Marking Patrol	\$ 790,082.30
21-00215-29-CH	LMP C2B Roadway Completion	\$ 3,105,000.00
22-00548-00-PV	Fabyan Western Intersection Improvement	\$ 3,511,108.41
20-00437-01-BR	Harmony Culverts	\$ 1,265,626.29
17-00493-00-CH	Orchard /30 Intersection Improvement	\$ 3,616,283.14
14-00288-01-PV	Bliss Main Fabyan Roundabout	\$ 11,899,395.65
14-00288-01-PV	Dauberman Rd	\$ 21,981,770.87
20-00524-01-SP	Montgomery- Virgil Gilman Trail	\$ 187,124.37
19-00524-00-SP	Plank Rd HSIP	\$ 1,684,391.39
21-00531-00-CH	Countyside Widening	\$ 366,529.81
24-00572-00-SM	Burlington/Bolcumn Roundabout Damage Repair	\$ 97,484.16
23-00565-00-RS	2024 Resurfacing	\$ 6,488,888.00
22-00551-00-DR	Jericho Rd Culverts	\$ 279,773.00
23-000569-00-GR	Hughes Culvert	\$ 271,183.44