

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, 2023 - February 29, 2024*

**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**

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	A Recycling Program postcard with a QR code directing to the County Environmental and Water Resources website was printed and distributed in the spring of 2023. 20,000 postcards were sent out and distributed at community events (see A.4 Community Events). Additionally, the “Clean Water for Kane” section was included in the <i>Kane County Recycles Green Guide</i> for 2024. During this reporting year, 1,800 print copies were mailed to residents in Feb 2024 and 987 residents downloaded the pdf version of the guide. The bulk of distribution (16,000 additional print copies and further downloads) will occur during the upcoming reporting year (March 2024 - Feb 2025).

# USE LESS, USE WISELY

## REDUCING CARBON FOOTPRINT



A personal or household carbon footprint is an index value that indicates how much greenhouse gas (typically, carbon dioxide and methane) a person or family generates through everyday activities. The average carbon footprint in the United States is three-to-four times higher than the global average. Here are some tips that residents can follow to tread more lightly on the Earth and save some money on energy costs too!

- Calculate your household footprint at [www3.epa.gov/carbon-footprint-calculator/](http://www3.epa.gov/carbon-footprint-calculator/)
- Turn off lights & appliances when not in use
- Switch lightbulbs to LEDs
- Install a smart thermostat at home
- Wash your clothes in cold water
- Upgrade to insulating curtains to keep the heat in
- Consider installing solar panels at home - more info: [www.countyofkane.org/sustainability/pages/solar.aspx](http://www.countyofkane.org/sustainability/pages/solar.aspx)
- Choose reusable items like shopping bags, water bottles, coffee mugs, utensils and drinking straws
- Upgrade to high-efficiency/Energy Star appliances



## CONSERVING & PROTECTING WATER



Stormwater runoff generated from rainwater and snowmelt can significantly contribute to water pollution. As water passes over impermeable surfaces, pollutants such as chemicals from vehicles, fertilizers, pesticides, sediment, and debris accumulate. These pollutants end up in streams, lakes, and other water bodies, contributing to poor water quality and posing potential risks to aquatic species. Here are some tips that residents can use to conserve water and reduce pollution:

- Install rain barrels to collect water from gutters; use collected rain to water the lawn and garden
- Upgrade to WaterSense fixtures (ComEd sells low-flow showerheads for as little as \$1 after rebates)
- Never dispose of medication, pesticides, or any other household chemicals down the drain (see pages 4&5)
- Plant drought-resistant native species
- Don't overwater - established landscaping only needs 1" per week to stay green in summer
- Always pick up after your pets
- Plant drought-resistant native plants and/or install a rain garden; lots of great info at [theconservationfoundation.org](http://theconservationfoundation.org)
- Use salt and deicing products sparingly and always sweep up any spills; 1 cup is enough for most driveways!

### RAIN BARRELS & COMPOST BINS

Available through Kane County's Spring Sale! More details on the Recycling website (see cover) in the spring. Or, call 630-208-8665 with questions!



For more information on energy & water conservation or County sustainability initiatives, please contact: Sarra Hinshaw, Sustainability Manager, [hinshawsarra@kanecountyil.gov](mailto:hinshawsarra@kanecountyil.gov) 630-208-8665

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

## 2. BMP A.2—Speaking Engagement

<p><b>MEASURABLE GOALS</b></p>	<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>
<p><b>RESULTS</b></p>	<p>Kane County Government developed a Climate Action Implementation Plan (CAIP) which included goals for stormwater.</p> <p>The presentations listed below were given by Kane County for the CAIP during the permit year of March 1, 2023 — February 29, 2024:</p> <p>The CAIP was presented to the public at the following:          Geneva Public Library, February 6<sup>th</sup>, with around 100 attendees          Gail Borden Public Library on February 7<sup>th</sup> with around 40 attendees          Aurora Santoria Public Library on February 16<sup>th</sup> with around 25 attendees          Hawthorne Nature Center on February 24<sup>th</sup> with around 40 attendees</p> <p>The CAIP was added to the Kane County Website and to date the link has been clicked 4054 times.</p> <p>KCDEWR Staff presented on “Kane County Stormwater Mapping and Tools” via webinar through the Illinois Wild Ones organization on Feb 20, 2024 with 40+ attendees. Video was viewed 117 times.  <a href="https://www.youtube.com/watch?v=SBlyJSCMPrg">https://www.youtube.com/watch?v=SBlyJSCMPrg</a></p>

## 3. BMP A.3—Public Service Announcement

<p><b>MEASURABLE GOALS</b></p>	<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.          Track the number of PSA showings, locations, and audience reached each year.</p>
<p><b>RESULTS</b></p>	<p>During the permit year, the PSA was posted on the Kane County website at: <a href="http://www.countyofkane.org/Pages/commDisp.aspx?focusID=145">http://www.countyofkane.org/Pages/commDisp.aspx?focusID=145</a>. The Clean Water for Kane information and flyers were presented at:</p> <ol style="list-style-type: none"> <li>1. Climate Action Talk with Bill Foster on November 18<sup>th</sup>, 2023 in McHenry County.</li> </ol>

	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-size: small;">Government A-Z Services Business Communities Calendar Maps Employment County Code Home</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p><b>Kane County, Illinois</b></p> <p style="font-size: x-small;">719 Batavia Avenue, Geneva, Illinois 60134 / Phone: 630-232-3400</p> <p style="font-size: x-small;">www.countyofkane.org</p> </div> <div style="text-align: right;"> <input style="width: 80px;" type="text" value="Google Custom Search"/> <input style="width: 20px; height: 20px;" type="button" value="Q"/> </div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 5px;"> <div style="width: 30%; font-size: x-small;"> <p style="background-color: #003366; color: white; padding: 2px;">Kane County News</p> <p style="background-color: #003366; color: white; padding: 2px;">Meeting Agenda &amp; Minutes</p> <p style="background-color: #003366; color: white; padding: 2px;">Press Releases</p> <p style="background-color: #003366; color: white; padding: 2px;">Article Archive</p> <p style="background-color: #003366; color: white; padding: 2px;">Newsletter Sign-up</p> </div> <div style="width: 65%;"> <div style="display: flex; justify-content: space-between; align-items: center; margin-bottom: 10px;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> <p><b>Clean Water for Kane Video</b></p> <p style="font-size: x-small;">Check out Kane County's new PSA on how to conserve water!</p> </div> </div> <div style="text-align: center;"> </div> </div> </div> </div>
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PSA on Kane County website

**4. BMP A.4—Community Event**

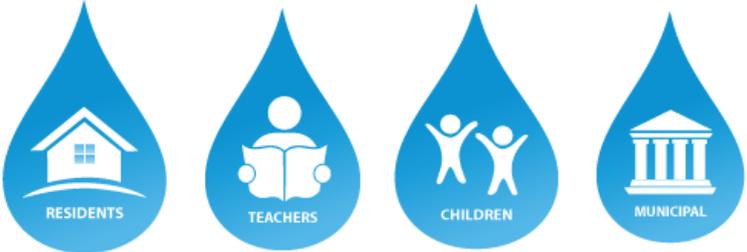
<b>MEASURABLE GOALS</b>	<p>Educate residents and other stakeholder groups on stormwater Best Management Practices through participation in environmental and watershed special events in the community, and regular community education/training events including the annual well and septic seminar hosted by 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>
<b>RESULTS</b>	<p>Kane County staff participated in the community events listed below during the permit year of March 1, 2023- February 29, 2024. Stormwater educational handouts—including <i>Green Guides</i> (see A.1 Distributed Paper Material), homeowner resource cards, and natural landscaping brochures—were distributed at these community events.</p> <p>Kane County staff participated in the community events listed below during the permit year of March 1, 2023 – February 29, 2024. Some community events were shifted online to “virtual events”. Stormwater educational handouts – including the Green Guides (see A.1 Distributed Paper Material) were distributed at the community events held in person, virtual links to the <i>Clean Water for Kane</i> website - which hosts all Kane County stormwater educational materials for the public (see A.6 Other Public Education) - were made available for virtual events.</p> <ul style="list-style-type: none"> <li>• One Earth Film Festival [3/09/23, + 408 virtual and 37 in person registrants]</li> </ul>

	<ul style="list-style-type: none"> <li>• Kane County Rain Barrel Sale Webinar [4/25/2023, 12 attendees]</li> <li>• Elgin (60) and Geneva Earth Day events (75) [4/22/23, 135 attendees combined]</li> </ul> <p>The Kane County Health Department hosted its annual Well &amp; Septic educational event on April 27<sup>th</sup>. 8 county residents attended the event.</p>
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**5. BMP A.5—Classroom Education Material**

<b>MEASURABLE GOALS</b>	<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>
<b>RESULTS</b>	<p>During the permit year, the Kane County Department of Environmental &amp; Water Resources updated the youth educational resource list available on the County website at: <a href="http://www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation/children.aspx">www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation/children.aspx</a>.</p> <p>Additionally, the Department provided 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.</p> <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: <a href="https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/children.aspx">https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/children.aspx</a> as well as the teacher educational resource list available on the county website: <a href="https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/teachers.aspx">https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/teachers.aspx</a></p> <p>Additionally, Kane County Department of Environmental and Water Resources allocated \$500 of FY23 funding to Friends of the Fox River (FOFR) for their Classroom Educational Programming and pledges funding for FY24.</p> <p>For all of Kane County, Friends of the Fox River organized student education through 35 field trips, 28 campus lessons, virtual programs and public events with different schools and student groups having an overall reach during the reporting year as well as 10 adult audience water quality community programs.</p>

**6. BMP A.6 – Other Public Education**

<p><b>MEASURABLE GOALS</b></p>	<p>The Kane County Department of Environmental &amp; 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>
<p><b>RESULTS</b></p>	<p>During the permit year, the Kane County Department of Environmental &amp; Water Resources updated the “Stormwater Education” pages on the County website.</p> <p style="text-align: center;"><b>Stormwater Education</b></p> <hr style="width: 50%; margin: auto;"/> <div style="text-align: center;">  </div> <p style="text-align: center;"><i>Stormwater Education page of the Kane County website:</i>  <a href="http://www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx">www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx</a></p> <p>In addition, six water-related articles were published in <i>Kane County Connects</i>:</p> <ul style="list-style-type: none"> <li>• Mapping the Flow of Stormwater Drainage and Why it Matters[6/12/23]  <a href="https://www.kanecountyconnects.com/article/KaneCountyGovernment-Stormwater-Map">https://www.kanecountyconnects.com/article/KaneCountyGovernment-Stormwater-Map</a></li> <li>• <i>Illinois EPA Invests Over a Half Billion Dollars in Drinking Water and Wastewater Projects Including Two in Kane County</i>        [8/25/23] <a href="https://kanecountyconnects.com/article/Batavia-PingreeGrove-IEPA">https://kanecountyconnects.com/article/Batavia-PingreeGrove-IEPA</a></li> <li>• <i>Illinois and FEMA Floodplain Management Webinars</i>        [2/27/24]  <a href="https://kanecountyconnects.com/article/StormwaterManager-KaneCountyDivisionofEnvironmentalandWaterResources">https://kanecountyconnects.com/article/StormwaterManager-KaneCountyDivisionofEnvironmentalandWaterResources</a></li> <li>• <i>Well Water Testing Kits Available For Purchase October 17-28</i> [9/27/22]  <a href="https://kanecountyconnects.com/article/water-well-testing-kits">https://kanecountyconnects.com/article/water-well-testing-kits</a></li> <li>• <i>Smart Salting for a Better Environment</i> [1/31/2024]  <a href="https://kanecountyconnects.com/article/smartsalting-roadsalt-environment-deicing-ecosystem-waterquality">https://kanecountyconnects.com/article/smartsalting-roadsalt-environment-deicing-ecosystem-waterquality</a></li> </ul>

	<i>Kane County Connects</i> reaches 23,000 newsletter subscribers and over 901 followers on social media.
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**7. BMP A.6 – Other Public Education**

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	During the permit year, no requests were made for additional stream signage and therefore no new signs were installed.

**B. PUBLIC PARTICIPATION/INVOLVEMENT**

**1. BMP B.3—Stakeholder Meeting**

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	<p>During the permit year, the following stakeholder meetings were held/attended by Kane County:</p> <ul style="list-style-type: none"> <li>• Tyler Creek Watershed Coalition meetings – [4/20/22 via Zoom; 5/17/23 via Zoom; 6/21/23 via Zoom; 7/19/23 via Zoom; 8/16/23 via Zoom; 9/20/23 via Zoom, 11/15/23 via Zoom;; 01/17/23 via Zoom; 2/21/23 via Zoom]</li> </ul>

## 2. BMP B.5—Volunteer Monitoring

<p><b>MEASURABLE GOALS</b></p>	<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>
<p><b>RESULTS</b></p>	<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"> <li>• Fox River Study Group meetings held via Zoom [3/23/23, 4/27/23; 5/25/23, 6/22/23, 7/27/23, 8/24/23, 8/31/23, 9/28/23, 10/19/23, 11/09/23 (Annual Meeting), 11/16/23, 12/21/23, 1/18/24, 2/22/24]</li> <li>• Fox River Ecosystem Partnership meetings [3/16/23(Fox R. Summit), 4/12/23, 5/10/23, 9/13/23, 10/11/23, 11/8/23, 1/10/24, 2/14/24]</li> </ul> <p>In addition, the Kane County Department of Environmental &amp; Water Resources provided financial support of \$500 to the Friends of the Fox River for their volunteer monitoring program in November 2023. 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 12/20/2023 and passed by Kane County Board on 11/14/2023 to cover the time period October 1, 2023, through September 30, 2024. Kane County has committed \$69,290 of FY24 funding to support five stream gages and four precipitation gages.</p>

### 3. BMP B.7—Other Public Involvement

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	The Kane County Department of Environmental & Water Resources provided \$500 in January 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, 365 Facebook posts with 4900 follower and averages 4300 hits per month hits on their home website. In addition FOFR had 6 river cleanups in Kane County, with a total of 360 reported volunteers. In September 2023 FOFR coordinated their 5 <sup>th</sup> annual “It’s our Fox River Day” and reported over 37 separate events covering 200 miles of the Fox River. Nearly 2000+ participants volunteered for the cleanup event and over forty organizations and municipalities partnered with FOFR for the event. 37 cleanups produced mounds of trash from in and around the Fox River and its streams. Ecological restoration events included oak tree planting, shoreline planting of native species, and creekside clearing of invasive species. In

**C. ILLICIT DISCHARGE DETECTION AND ELIMINATION**

**1. BMP C.1—Storm Sewer Map Preparation**

<p><b>MEASURABLE GOALS</b></p>	<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>
<p><b>RESULTS</b></p>	<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 2617 miles in the last reporting period to more than 3125 miles in this reporting period. Mapped storm sewer, culvert &amp; tile segments increased from 100,000 segments in 2023 to more than 140,000 in 2024. Additionally, storm structures such as catch basins, inlets, manholes, and flared end sections have been added to the mapping dataset and 125,000 structures have been included up through the 2023 reporting period. During the reporting period, mapped stormwater detention basins increased from 3,272 to 3,337.</p> <p>In February 2024, Kane County made public a stand-alone, on-line Stormwater Viewer, which is an 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><a href="https://experience.arcgis.com/experience/094fedf250d34bf19cb22881ddb2d66d/">https://experience.arcgis.com/experience/094fedf250d34bf19cb22881ddb2d66d/</a></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**

<p><b>MEASURABLE GOALS</b></p>	<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>																			
<p><b>RESULTS</b></p>	<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 27 septic system complaints.</p> <p>KC Environmental &amp; Water Resources Dept investigated 6 potential illicit discharges during the reporting period.</p> <p style="text-align: center;"><b>KANE COUNTY ILLICIT DISCHARGE INCIDENT TRACKING</b>  <b>Period: March 2023 - February 2024</b></p> <table border="1" data-bbox="451 886 1495 1812"> <thead> <tr> <th data-bbox="451 886 591 932">Date</th> <th data-bbox="591 886 820 932">Location</th> <th data-bbox="820 886 1049 932">Issue</th> <th data-bbox="1049 886 1495 932">Outcome</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 932 591 1218">4/16/23</td> <td data-bbox="591 932 820 1218">45W254 Dietrich Rd, Hampshire Township</td> <td data-bbox="820 932 1049 1218">Landowner reported suspected illicit discharge emanating from farm field tile outfall into agricultural channel</td> <td data-bbox="1049 932 1495 1218">KCDEWR staff investigated on 5/15/23 and confirmed our suspicion that the discharge was ag drainage and "oily" substance was biological and not manmade chemical (sheen broke like glass).</td> </tr> <tr> <td data-bbox="451 1218 591 1503">5/6/23</td> <td data-bbox="591 1218 820 1503">9N189 Muirhead Rd</td> <td data-bbox="820 1218 1049 1503">Adjacent neighbor called about black residue percolating from ground in vicinity of the landowner's septic system and flowing onto his property</td> <td data-bbox="1049 1218 1495 1503">Property was dye tested by KC Health Dept and no connection between the discharge and the septic was found. Black substance appeared to be dark &amp; decaying algae coming from an unmapped drain tile in the rear of the property.</td> </tr> <tr> <td data-bbox="451 1503 591 1812">5/15/23</td> <td data-bbox="591 1503 820 1812">860 N. Lyle Ave, City of Elgin</td> <td data-bbox="820 1503 1049 1812">Residents reported a potential sanitary sewer discharge into Tyler Creek</td> <td data-bbox="1049 1503 1495 1812">Incident was reported to City of Elgin for investigation and correction as this was within municipal boundary.</td> </tr> </tbody> </table>				Date	Location	Issue	Outcome	4/16/23	45W254 Dietrich Rd, Hampshire Township	Landowner reported suspected illicit discharge emanating from farm field tile outfall into agricultural channel	KCDEWR staff investigated on 5/15/23 and confirmed our suspicion that the discharge was ag drainage and "oily" substance was biological and not manmade chemical (sheen broke like glass).	5/6/23	9N189 Muirhead Rd	Adjacent neighbor called about black residue percolating from ground in vicinity of the landowner's septic system and flowing onto his property	Property was dye tested by KC Health Dept and no connection between the discharge and the septic was found. Black substance appeared to be dark & decaying algae coming from an unmapped drain tile in the rear of the property.	5/15/23	860 N. Lyle Ave, City of Elgin	Residents reported a potential sanitary sewer discharge into Tyler Creek	Incident was reported to City of Elgin for investigation and correction as this was within municipal boundary.
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	10/1/23	1797 N LaFox St in Village of South Elgin	Resident reported a suspicious discharge into a channel that flows into the Fox River. Channel received drainage from an adjacent property under development	Believed to be construction site stormwater runoff. Incident was reported to Village of South Elgin Public Works for investigation as this was within their municipal boundary.
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### 3. BMP C.10—Other Illicit Discharge Controls

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	Kane County Health Department held one well and septic staff training during the reporting period on 1/24/2024. Two staff attended (the only two staff with responsibilities for inspecting septic systems and investigating potential related illicit discharges).

## D. CONSTRUCTION SITE RUNOFF CONTROL

### 1. BMP D.1—Regulatory Control Program

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	During the permit year, 52 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

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	During the reporting period, 34 Stormwater Permits were issued. Post-Construction Runoff Control measures were implemented on these projects under the requirements of the Kane County Stormwater Management Ordinance. 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

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	During the permit year, the Kane County Department of Environmental & Water Resources regularly updated the MS4 contact list. Five issues of the “MS4 Corner” newsletter were created and distributed to the contact list during the reporting period [Distributed on: 5/05/23, 7/07/23 and 9/09/23 with a MS4 News alert on 9/16/23].



## September 2023 Edition

### Hazard Mitigation in Kane County

Are you prepared for the next disaster? Let the County know! Kane County residents and businesses can help the county update its emergency preparedness plans by participating in a voluntary online questionnaire. Feedback from the confidential 10-minute survey will enable the Kane County Office of Emergency Management to better serve residents and businesses before, during and after an emergency or disaster. Please post this survey on your local website or electronic newsletter.

To fill out the questionnaire, go to:  
<http://kane.preparedness.alchemer.com/s3/>

The survey will remain open until September 30, 2023.

### Upcoming Illinois Floodplain Management Webinars

*Example*

*issue of MS4 Corner*

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

- *Non Structural BMPs: Addressing Runoff from Residential Areas* [6/21/23;
- *Behavior Change For Stormwater and Wastewater* [7/19/23; 7 attendees, 6 Kane County staff]
- *Methods to Address Pollution Sources from Municipal Practices* [10/25/23; 7 attendees, 6 Kane County staff]

In addition, Kane County Environmental & Water Resources staff participated in the following training opportunities provided by other entities:

- Illinois Association of Floodplain & Stormwater Management Annual Conference in Tinley Park IL [3/14/23-3/15/23; 4 staff attended]

## 2. BMP F.2—Inspection and Maintenance Program

<p><b>MEASURABLE GOALS</b></p>	<p>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 &amp; 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.</p>
<p><b>RESULTS</b></p>	<p>During 2023, the Kane County Department of Transportation swept approximately 100 miles of curbing and 40 bridge decks. Sweeping was done twice – once in the spring and once in the fall.</p> <p>KDOT cleaned out approximately 400 catch basins on south Randall Rd and Orchard Rd.</p> <p>KCDEWR continues to update its BMP Inventory &amp; 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

<p><b>MEASURABLE GOALS</b></p>	<p>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.</p>
<p><b>RESULTS</b></p>	<p>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 fleet tracking.</p> <p>KDOT vehicles are inspected according to the following schedule:</p> <ul style="list-style-type: none"> <li>• Heavy trucks (snow plows, etc.)—every 2000 miles or 180 days</li> <li>• Light trucks and cars—every 5000 miles or 90-180 days</li> <li>• Heavy off-road equipment—every 50 hours or 180 days</li> <li>• Light off-road equipment—every 50 hours or 180 days</li> </ul> <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-</p>

	way.
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**4. BMP F.5—Flood Management/Assessment Guidelines**

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	<p>The Kane County Emergency Management Department and Kane County Department of Environmental &amp; 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 and will adopt the Plan in Spring of 2024. The Plan was approved by FEMA on April 1, 2024.</p> <p>The Committee held webinars for all participating communities and the public in May and June 2023 and in-person workshops in late June of 2023 . 27 Communities participated and 108 Community members attended.</p> <p>In addition, the Kane County Department of Environmental &amp; Water Resources completed 1 cost-share project to reduce flooding on unincorporated residential properties (Boyer Rd Drainage Improvement Project).</p>

**5. BMP F.6—Other Municipal Operations Controls**

<b>MEASURABLE GOALS</b>	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.
<b>RESULTS</b>	<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 2023 deicing workshop for sensible salting. Supervisors attended the APWA Winter maintenance supervisor workshop. KDOT calibrates trucks yearly to insure 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 28 winter events using 4,500 tons of salt for the season. KDOT supervisors also utilize GPS software to track salt usage to minimize salt over-application.</p> <p>The Kane County Department of Environmental &amp; Water Resources also worked</p>

with The Conservation Foundation to host a virtual winter road maintenance training that was open to all MS4 communities in the region.

- Public Roads Deicing Workshops were held on September 26, October 4, and October 10, 2023. The links were sharable so the webinars could be viewed individually or in groups. A survey was provided at the end of each webinar to those who had signed in asking for the number of attendees from each agency and for an evaluation of the webinar. Thirty four Kane County representatives participated in the three Public Roads webinars, KCDOT staff, supervisors and snow plow operators attended the webinar.
- The Parking Lots and Sidewalks Deicing Workshop webinars were held on October 3 and October 17, 2023 with Fortin Consulting, Inc. presenting. Three Kane County staff viewed the webinars.



VIRTUAL WORKSHOPS

Registration will be available at [SaltSmart.org](http://SaltSmart.org) in August

**SALT SMART COLLABORATIVE**

SAVE THE DATE

## 2023 Virtual Deicing Workshops

Public Roads	Parking Lots & Sidewalks
<b>September 26</b>	<b>October 3</b>
<b>October 4</b>	<b>October 17</b>
<b>October 10</b>	<b>8 am—12pm</b>
<b>8 am—12 pm</b>	

Hosted by:



Outreach Sponsors:



*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. Six new structural BMPs were constructed on Kane County government-owned property in Mar 2023 – Feb 2024. These were wetland-style stormwater detention basins – 4 in Big Rock Township built for the Dauberman Road Extension Project and 2 in Blackberry Township for the Bliss Road Roundabout 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 & Tood 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

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.

**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 2023—February 2024:

<b>Project Name</b>
Resurfacing #1 & #2
Paint Pavement Markings
Urethane Pavement Markings
Asphalt Rejuvenator
Countryside Ave Widening
Crack Sealing
Bliss/Main/Fabyan Roundabout
ADA Ramp Improvements
Allen Rd Chipseal
Dauberman Road Extension and Grade Separation
Fabyan Parkway under Fox River Bridge Embankment Grading
Guardrail Replacement
Harmony Road Culvert Replacement
Harter Road – Main St Rd to Lovell Drainage Improvements
Joliet Rd Culvert Replacement
Keslinger Rd Drain Tile Improvements west of Meredith Rd
Longmeadow Parkway C-2A Soil Remediation & Removal
Montgomery Rd at Virgil Gilman Trail
Orchard Rd Concrete Patching
Orchard Rd at US 30
Plank Rd Shoulder Widening