

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, 2022 - February 28, 2023

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	<p>The “Clean Water for Kane” section was included in the <i>Kane County Recycles Green Guide</i> for 2022, which was distributed to 27,400 residents countywide via 20,000 print copies, 5,540 emailed copies and 1,874 digital downloads of the document from the Kane County website. Printed copies of the <i>Green Guide</i> were also distributed at multiple community events (see A.4 Community Event).</p> <p>The “Clean Water for Kane” section was included in the Kane County Recycles Green Guide for 2022, which was distributed to 27,400 residents countywide via printed and electronic copies. Printed copies of the Green Guide were distributed at community events and events held virtually throughout the year.</p>

USE LESS. USE WISELY.

ENERGY & SUSTAINABILITY

- Use **ENERGY STAR** rated appliances to conserve energy.
- **Stop idling** your vehicle: Idling wastes fuel and money, and contributes to air pollution. If schools are interested in getting "Please Don't Idle" signs for your drop-off and pick up areas, please reach out to the resource management coordinator at the contacts below.
- Look into your energy provider's **energy efficiency programs and opportunities** to use renewable energy.
- Check out <https://www.countyofkane.org/sustainability/Pages/solar.aspx> for updates on local **residential solar opportunities**.
- **Bike, walk or use public transportation** when possible.
- **Move toward reusables and avoid single-use plastics.**
- **Utilize organics** by composting food and lawn scraps.
- **Purchase consciously:** think about the lifecycle of each purchase you make.



WATER

- **Use WaterSense:** Help conserve our drinking water by using WaterSense rated fixtures to reduce water use in your faucets, toilets, shower heads and irrigation systems.
- **Water wisely:** Water lawns deeply and infrequently to encourage deep root growth. Ideally, your lawn only needs 1 inch of water per week.
- **Install a rain barrel and rain garden:** This conserves potable water and replenishes groundwater supplies.
- **Salt sensibly:** Excessive road salt during winter months can harm our rivers and streams. Shovel first, then apply salt sparingly, one cup is enough for your entire driveway.
- **Protect:** Only rain down the storm drain. Keep household chemicals, cleaners and lawn chemicals (pesticides, herbicides and fertilizers) from being dumped into or washed down storm drains.



Contact: Resource Management Coordinator, at Kleelvy@co.kane.il.us or **630-208-8665**.

For more sustainability information, please visit www.countyofkane.org/sustainability.

RECYCLING PLASTIC BAGS AND PLASTIC FILM

Please do not place plastic bags or film in your household recycling! They are recyclable but only at grocery store drop-boxes. Check your local store for their drop-box and to verify acceptable materials. Please visit www.plasticfilmrecycling.org for more information.

ACCEPTED MATERIALS:

- All clean, clear bread bags labeled with a #2 or #4
- Bubble wrap (clean and free of tape)
- Grocery bags
- Plastic dry cleaning bags
- Plastic newspaper bags
- Plastic mailers (with the "how2recycle" label)
- Paper towel and toilet paper plastic wrap
- Retail bags (hard plastic and string handles removed)
- Zip-lock bags (clean, dry, empty bags only & cut the zip strip off and throw it in the trash)



DO NOT RECYCLE:

- The following are considered contaminants and could jeopardize recycling programs:
- NO receipts, deli stickers, or cling wrap
 - NO frozen food bags
 - NO film that has been painted or has excessive glue
 - NO bio-based or compostable plastic bags
 - NO random plastic that is not specifically listed on the Accepted Materials list



COMPOST BINS & RAIN BARRELS

Will be available at Kane County's Spring Sale! More details in early 2022 at countyofkane.org on the Division of Environmental and Water Resources webpage.

Questions? Call 630-208-8665

2. BMP A.2—Speaking Engagement

<p>MEASURABLE GOALS</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>RESULTS</p>	<p>The presentations listed below were given by Kane County staff during the permit year of March 1, 2022 — February 28, 2023:</p> <ul style="list-style-type: none"> • Presentation to Illinois Association of Floodplain and Stormwater Managers on Countywide Stormwater Infrastructure Mapping (03/9/2022; 80+ attendees; presentation PDF published on-line) • Presentation to Fox River Ecosystem Partnership – “Countywide Stormwater Infrastructure Mapping” (6/8/22; 15 attendees; presentation PDF published on-line) • Presentation at Kane County Emergency Managers Meeting held at Kane County Auditorium (12/6/22; 10 attendees) • Presentation at Kane County Emergency Managers Meeting held at K.C. Office of Emergency Management (2/21/23; 30+ attendees) • A Virtual Open House was held for Kane County residents and professionals in Partnership with the Conservation Foundation. Speakers included staff from IDNR, FEMA, the Conservation Foundation and Kane County Environmental and Water Resources Department Staff. Presentations including Flooding Information, NFIP, Permitting, Stormwater Maintenance and Improvement for residents, subdivisions and commercial sites and Wetland Education; <i>via Zoom (9/26/22-10/1/22; 40 attendees; video published on-line)</i> •

3. BMP A.3—Public Service Announcement

<p>MEASURABLE GOALS</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>RESULTS</p>	<p>During the permit year, the PSA was posted on the Kane County website at: http://www.countyofkane.org/Pages/commDisp.aspx?focusID=145. No special showings of the PSA were organized by Kane County due to a lack of funding.</p>

	<p>The screenshot shows the Kane County, Illinois website header with navigation links: Government, A-Z Services, Business, Communities, Calendar, Maps, Employment, County Code, Home. The main content area features a 'Clean Water for Kane Video' section with a play button icon and the text 'Check out Kane County's new PSA on how to conserve water!'. Below this is a video thumbnail showing a brown paper bag with 'CLEAN WATER FOR KANE' and 'CountyofKane.org' printed on it, decorated with a dragonfly and a butterfly.</p>
	<p><i>PSA on Kane County website</i></p>

4. BMP A.4—Community Event

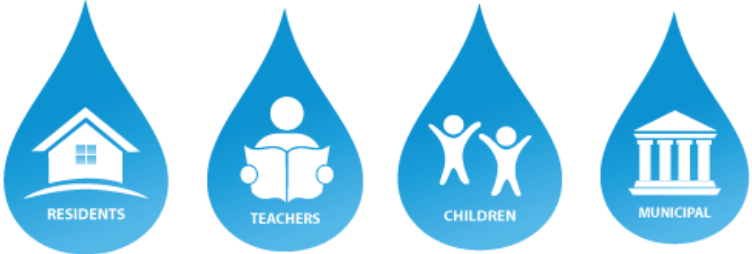
MEASURABLE GOALS	<p>Educate residents and other stakeholder groups on stormwater Best Management Practices through participation in environmental and watershed special events in the community, and regular community education/training events including the annual well and septic seminar hosted by the Kane 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 of March 1, 2022- February 29, 2023. 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, 2022 – February 29, 2023. Some community events were shifted online to “virtual events” due to the COVID-19 pandemic. 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"> • One Earth Film Festival [3/12/2022, 419+ registrants] • Kane County Rain Barrel Sale Webinar [4/12/2022, 15 attendees] • Floodplain awareness week [9/26/22-10/1/22, 40 attendees] • Elgin and Geneva Earth Day events [4/22/22, 125 attendees combined] <p>The Kane County Health Department did not host its annual Well & Septic educational events for the public due to the COVID-19 pandemic.</p>
--	--

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 & Water Resources updated the youth educational resource list available on the County website at: www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation/children.aspx.</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: 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>Additionally, Kane County Department of Environmental and Water Resources allocated \$500 of FY22 funding to Friends of the Fox River (FOFR) for their Classroom Educational Programming and pledges funding for FY23.</p> <p>For all of Kane County, Friends of the Fox River organized student education through field trips, campus lessons, virtual programs and public events with different schools and student groups having an overall reach during the reporting year of 820 students.</p>

6. BMP A.6 – Other Public Education

<p>MEASURABLE GOALS</p>	<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 <i>Kane County Connects</i> 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 <i>Kane County Connects</i>, topics covered, and audience reach each year.</p>
<p>RESULTS</p>	<p>During the permit year, the Kane County Department of Environmental & Water Resources updated the “Stormwater Education” pages on the County website.</p> <p style="text-align: center;">Stormwater Education</p> <hr style="width: 50%; margin: auto;"/> <div style="text-align: center;">  <p style="text-align: center;"> <i>Stormwater Education page of the Kane County website:</i> www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx </p> </div> <p>In addition, six water-related articles were published in <i>Kane County Connects</i>:</p> <ul style="list-style-type: none"> • <i>2022 Kane County Virtual Floodplain Awareness Open House</i> [9/21/22] https://kanecountyconnects.com/article/Flood-KaneCounty-Events • <i>Kane County Commits Federal Recovery Dollars to Study Water Quality and Supply</i> [6/22/22] https://kanecountyconnects.com/article/Water-KaneCounty-Resources-Supply • <i>There are Underwater Invaders in Kane County Local Streams and Rivers</i> [7/11/22] https://kanecountyconnects.com/article/Crayfish-FoxRiver-Volunteer • <i>Well Water Testing Kits Available For Purchase October 17-28</i> [9/27/22] https://kanecountyconnects.com/article/water-well-testing-kits • <i>“Salt Smart and You”/ A Traveling Exhibit Now in Elgin</i> [1/24/2023] https://kanecountyconnects.com/article/GailBordenLibrary-KaneCountyGovernment-WaterResources-Elgin • <i>Floodplain Training Opportunity in Kane County</i> [2/13/23] https://kanecountyconnects.com/article/KaneCountyGovernment-

	Floodplain-DivisionofEnviromentalWaterResources <i>Kane County Connects</i> reaches 23,000 newsletter subscribers and over 560 followers on social media.
--	--

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, Kane County provided no additional stream signs to communities. In Unincorporated Kane County, Jelkes Creek Watershed Group installed 8 total stream signs that were provided by Kane County during the 2020-2021 permit year, along new roadways.

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	<p>During the permit year, the following stakeholder meetings were held/attended by Kane County:</p> <ul style="list-style-type: none"> • Tyler Creek Watershed Coalition meetings – [3/16/22 via Zoom, 4/20/22 via Zoom; 6/15/22, via Zoom; 7/20/22 via Zoom; 9/21/22 via Zoom, 10/19/22 via Zoom, 11/16/22 via Zoom; 12/12/21 via Zoom; 01/18/23 via Zoom]

2. BMP B.5—Volunteer Monitoring

<p>MEASURABLE GOALS</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>RESULTS</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"> • Fox River Study Group meetings held via Zoom [3/24/22, 4/28/22; 5/26/22, 6/23/22, 7/28/22, 8/25/22, 9/22/22, 10/20/22, 11/2/22 (Annual Meeting), 11/17/22, 12/15/22, 1/26/23, 2/23/23] • Fox River Ecosystem Partnership meetings [5/11/22, 6/8/22, 9/14/22, 10/12/22, 11/9/22, 1/11/23, 2/8/23] <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 2022. 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 1/24/2023 and passed by Kane County Board on 12/13/2022 to cover the time period October 1, 2022, through September 30, 2023. Kane County has committed \$64,160 of FY23 funding to support five stream gages and four precipitation gages.</p>

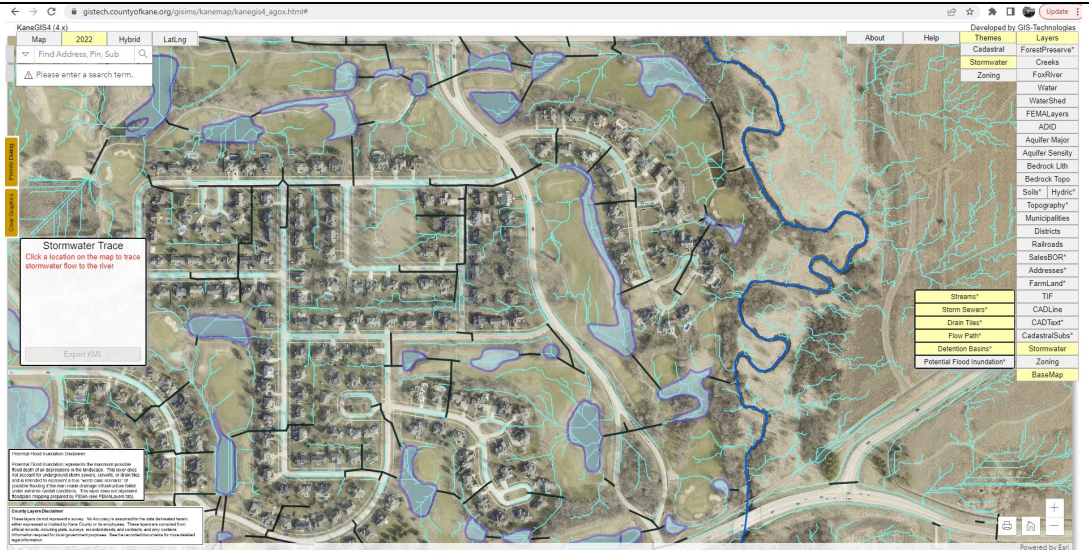
3. BMP B.7—Other Public Involvement

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. (Gary Swick – reached out)
RESULTS	The Kane County Department of Environmental & Water Resources provided \$500 in November 2022 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 and 6 river cleanups in Kane County, with a total of 360 reported volunteers. In September 2022 FOFR coordinated their 4 th annual “It’s our Fox River Day” and reported over 51 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. 31 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.

C. ILLICIT DISCHARGE DETECTION AND ELIMINATION

1. BMP C.1—Storm Sewer Map Preparation

MEASURABLE GOALS	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.
RESULTS	<p>During the permit year, the KCDEWR made more improvements to the County's stormwater mapping resources. The County's stormwater mapping resources have been expanded to serve as a countywide drainage infrastructure layer that includes storm sewer routes and detention basin locations for nearly all the municipalities within the County (both MS4 communities and rural communities in the county). The storm sewer mapping has been expanded with more than 267 miles storm sewers, culverts, and drain tiles added to the drainage system mapping across the entire county (2617 miles total). The storm sewer / culvert segments mapped to date (100,000 individual items) have been added into the updated hydro-enforced DEM that drives the County's high-resolution storm flow path network. In February 2023, KCDEWR, working with the GIS Department was able to release a new storm flow tracing tool available to the public on the County's mapping webpage at:</p> <p>https://gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html</p> <p>This stormwater tracing tool gives both professionals and the public at large the ability to accurately trace stormwater flow paths through any part of Kane County (at the map page linked above, select Themes -> Stormwater in the top right corner of the page to access the tracing tool and enable it simply by zooming into a location and clicking on it.</p>



Example of KaneGIS4 public stormwater mapping page for comprehensive county-wide stormwater mapping in Kane County

2. BMP C.2—Regulatory Control Program

<p>MEASURABLE GOALS</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>RESULTS</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 & Water Resources Dept investigated 6 potential illicit discharges during the reporting period.</p> <p style="text-align: center;">KANE COUNTY ILLICIT DISCHARGE INCIDENT TRACKING Period: March 2022 - February 2023</p> <table border="1" data-bbox="451 877 1498 1663"> <thead> <tr> <th data-bbox="451 877 597 919">Date</th> <th data-bbox="597 877 824 919">Location</th> <th data-bbox="824 877 1055 919">Issue</th> <th data-bbox="1055 877 1498 919">Outcome</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 919 597 1182">3/16/2022</td> <td data-bbox="597 919 824 1182">Heatherfield Drive, Elgin Township</td> <td data-bbox="824 919 1055 1182">Possible septic connection to field tile</td> <td data-bbox="1055 919 1498 1182">KCDEWR and Health Dept Staff investigated. Tile investigation completed and verified cross connection. Health Dept working with KC States Attorney Office to force landowner to complete disconnection</td> </tr> <tr> <td data-bbox="451 1182 597 1472">4/6/2022</td> <td data-bbox="597 1182 824 1472">IL Rt 47 & IL Rt 64, Campton Township</td> <td data-bbox="824 1182 1055 1472">Gas station fuel tank rupture</td> <td data-bbox="1055 1182 1498 1472">Large emergency response by local fire dept, OEM, IEPA. Environmental contractor hired by responsible party for containment, cleanup and remediation. KCDEWR overseeing contractor restoration work on downstream wetland complex disturbed during the emergency cleanup phase.</td> </tr> <tr> <td data-bbox="451 1472 597 1663">6/6/2022</td> <td data-bbox="597 1472 824 1663">SW of Keslinger Rd & Harley Rd, Blackberry Township</td> <td data-bbox="824 1472 1055 1663">Neighbor complaint of possible wastewater discharge into creek</td> <td data-bbox="1055 1472 1498 1663">KCDEWR staff investigated and found site wastewater treatment system to be operating as designed with no leakage or seepage from septic field.</td> </tr> </tbody> </table>				Date	Location	Issue	Outcome	3/16/2022	Heatherfield Drive, Elgin Township	Possible septic connection to field tile	KCDEWR and Health Dept Staff investigated. Tile investigation completed and verified cross connection. Health Dept working with KC States Attorney Office to force landowner to complete disconnection	4/6/2022	IL Rt 47 & IL Rt 64, Campton Township	Gas station fuel tank rupture	Large emergency response by local fire dept, OEM, IEPA. Environmental contractor hired by responsible party for containment, cleanup and remediation. KCDEWR overseeing contractor restoration work on downstream wetland complex disturbed during the emergency cleanup phase.	6/6/2022	SW of Keslinger Rd & Harley Rd, Blackberry Township	Neighbor complaint of possible wastewater discharge into creek	KCDEWR staff investigated and found site wastewater treatment system to be operating as designed with no leakage or seepage from septic field.
Date	Location	Issue	Outcome																	
3/16/2022	Heatherfield Drive, Elgin Township	Possible septic connection to field tile	KCDEWR and Health Dept Staff investigated. Tile investigation completed and verified cross connection. Health Dept working with KC States Attorney Office to force landowner to complete disconnection																	
4/6/2022	IL Rt 47 & IL Rt 64, Campton Township	Gas station fuel tank rupture	Large emergency response by local fire dept, OEM, IEPA. Environmental contractor hired by responsible party for containment, cleanup and remediation. KCDEWR overseeing contractor restoration work on downstream wetland complex disturbed during the emergency cleanup phase.																	
6/6/2022	SW of Keslinger Rd & Harley Rd, Blackberry Township	Neighbor complaint of possible wastewater discharge into creek	KCDEWR staff investigated and found site wastewater treatment system to be operating as designed with no leakage or seepage from septic field.																	

	6/30/2022	Plain Ave, Aurora Township	Chemical dye spilled onto private driveway and washed onto public roadway	KCDEWR staff investigated and it was determined the staining of the pavement was from a leaking storage container on a pallet. The business manufactures and packages road deicing salt and the leaking container was non-toxic environmentally safe dye added to the salt before packaging. Corrections were made by the business owner to prevent future container leaks and containment system put into place to prevent any possible leaks/spills from leaving the facility.
	10/4/22	Nottingham Drive, Blackberry Township	Citizen Report of animal waste from farm animals kept on residential property	KCDWER staff investigated and observed only 1 goat on the 1.5 acre property. Vegetation was well worn down on back half of lot, but staff observed no sediment deposition or animal waste in the drainage swale downstream of the site. Owner was contacted and directed to coordinate with Building & Zone Dept for possible animal zoning violation.
	10/12/2022	NE of Jericho Rd & IL Rt 47	Citizen report of possible fuel spill	KCDEWR staff investigated. Minimal evidence of diesel residue on the property down slope from diesel truck fueling station after heavy rainstorm. Investigation and discussion with property owner rep on site indicates incident resulted from a truck refueling during a heavy rainstorm and some diesel product visible in onsite puddles near pumps immediately following the storm event.
	2/9/2023	KDOT Facility on Burlington Rd	Citizen report of discolored stormwater	Discoloration in runoff leaving the KDOT facility was due to excess deicing salt being spilled in the yard during loading operations and precip changing to rain and washing dyed salt residual into detention basin which then drained into downstream roadside ditch and observed by resident. KDOT made corrections to salt loading and cleanup procedures to prevent future incidents.

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 held one well and septic staff training during the reporting as well as attended a health department seminar.

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, 43 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 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, 32 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 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	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: 5/24/23, 6/3/22, 7/14/22, 9/16/22, and 2/14/23].



September 2022 Edition

KANE COUNTY 2022 VIRTUAL FLOODPLAIN AWARENESS OPEN HOUSE

Brought to you by Kane County Department of Environmental and Water Resources and The Conservation Foundation

Calling all Residents, Floodplain Professionals, Realtors, and more!

Kane County Department of Environmental and Water Resources is excited to present the first Floodplain Awareness Virtual Open House, with support from The Conservation Foundation! Flooding is the most common, most expensive natural disaster in the United States. Join us to learn more about what you can do to be more prepared! Check out the schedule and RSVP below.

This Educational Series is for both Kane County residents, and floodplain professionals.

Residents -

The series will cover an introduction to the Floodplain, the common terms used and where it can flood (here's a hint, anywhere it rains!). Learn about what regulations you need to know as a property owner in the Floodplain, what every resident should know

Example issue of MS4 Corner

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

- *Agriculture and Watersheds* [5/25/22; 7 attendees, 6 Kane County staff]
- *Erosion and Sediment Control* [7/20/22; 7 attendees, 6 Kane County staff]
- *Behavior Change for Watershed and Stormwater Management* [11/16/22; 8 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 Bloomington, IL [3/8/22-3/9/22; 2 staff attended]
- Michigan Floodplain & Stormwater Virtual Conference [3/2/22-3/4/22; Attended by Jodie Wollnik, Director]

2. BMP F.2—Inspection and Maintenance Program

<p>MEASURABLE GOALS</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 & 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>RESULTS</p>	<p>During 2022, the Kane County Department of Transportation swept approximately 90 miles of curbing and 40 bridge decks on a regular seasonal interval.</p> <p>In addition, KDOT cleaned out approximately 350 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

<p>MEASURABLE GOALS</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>RESULTS</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"> • 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>

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

<p>MEASURABLE GOALS</p>	<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>
<p>RESULTS</p>	<p>The Kane County Emergency Management Department 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 Plan is currently expired as of December of 2020. County Staff is in the process of completing the Plan Update with a Consultant and HMPG funding under FEMA.</p> <p>A Committee Meeting was held in December 2022, held in person and via Zoom. 18 Community members attended.</p> <p>In addition, the Kane County Department of Environmental & Water Resources completed 2 cost-share projects to reduce flooding on unincorporated residential properties (property list available upon request).</p>

5. BMP F.6—Other Municipal Operations Controls

<p>MEASURABLE GOALS</p>	<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>
<p>RESULTS</p>	<p>The Kane County Department of Transportation provides continual training on salt application and storage procedures via staff manuals. All KDOT staff attended the 2022 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 31 winter events using 6,000 tons of salt for the season.</p> <p>The Kane County Department of Environmental & Water Resources also worked with The Conservation Foundation to host a virtual winter road maintenance training that was open to all MS4 communities in the region.</p> <ul style="list-style-type: none"> Public Roads Deicing Workshops were held on September 27, October 5, October 6, and October 12 2022. 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 September 29 and October 11, 2022 with Fortin Consulting, Inc. presenting. Three Kane County staff viewed the webinars.

VIRTUAL WORKSHOPS

Registration is open at SaltSmart.org/workshops

SALT SMART COLLABORATIVE

2022 Virtual Deicing Workshops

<p>Public Roads September 27 October 5 October 6 October 12 8 am—12 pm</p>	<p>Parking Lots & Sidewalks September 29 October 11 8 am—12pm</p>
---	--

\$50 REGISTRATION FEE PER DATE & SHARE WITH ALL YOUR STAFF

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. No new structural BMPs were constructed on Kane County government-owned property in Mar 2022 – Feb 2023.

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 PICIP 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

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 2022—February 2023:

List of Kane Co DOT Transportation Projects Under Construction or Completed between Mar 2022 -Feb 2023

Section Number	Project Name
'21-00542-01-RS	2022 Resurfacing #2
'22-00000-01-GM	2022 Paint
'22-00000-02-GM	2022 Urethane
'22-00000-03-GM	2022 Asphalt Rejuvenator
'22-00000-04-GM	2022 HMA Crack Sealing
'22-00000-05-GM	2022 PCC Crack Sealing
'21-00214-29-LS	Stearns AMP Embankment Restoration
21-00288-03-BD	Main St at Fabyan Demolition
21-00536-00-BR	Swan Road Structure Replacement
'21-00542-00-RS	2022 Resurfacing #1
20-00527-01-RS	Swan Road Resurfacing
21-00535-00-BT	Keslinger MUP
21-00215-28-CH	Longmeadow Parkway C2