



Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2023 To March, 2024

Permit No. ILR40 0341

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: City of Geneva Mailing Address 1: 22 South First Street
Mailing Address 2: _____ County: Kane
City: Geneva State: IL Zip: 60134 Telephone: 630-232-7494
Contact Person: Bob Van Gyseghem Email Address: bvangyseghem@geneva.il.us
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

City of Geneva

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

- | | | | |
|--|--------------------------|---|--------------------------|
| 1. Public Education and Outreach | <input type="checkbox"/> | 4. Construction Site Runoff Control | <input type="checkbox"/> |
| 2. Public Participation/Involvement | <input type="checkbox"/> | 5. Post-Construction Runoff Control | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Bob Van Gyseghem
Owner Signature:

5/28/2024
Date:

Bob Van Gyseghem
Printed Name:

Water Division Superintendent
Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

IL 532 2585
WPC 691 Rev 6/10
This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
ANNUAL FACILITY INSPECTION REPORT
NPDES PERMIT FOR STORMWATER DISCHARGES
FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

CITY OF GENEVA, ILLINOIS

**2024 ANNUAL FACILITY INSPECTION REPORT
MARCH 2023 TO MARCH 2024 REPORTING PERIOD**

A. CHANGES TO BEST MANAGEMENT PRACTICES

There were no changes to Best Management Practice (BMP) commitments within the Notice of Intent (NOI) submitted by the City. A Stormwater Management Plan has been developed and is being implemented.

B. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS

Public Education and Outreach

BMP A.1 Distributed Paper Material

The City of Geneva distributes information to residents that outlines what is considered an illicit discharge and identifies practices and procedures they can use to eliminate these discharges into the City's storm sewer system. The City also distributes information on the County's Recycling and Household Hazardous Waste Programs (See Kane County's NOI, Control Measure I for more information on this literature.)

The City's MS4 program NOI, Stormwater Management Plan, and recent annual reports are posted on the City Public Works webpage.

Goal: Continue to produce and distribute education materials

Status: The City provides the following information to residents on its website:

- Trash and debris control program
- Recycling programs
- Household hazardous waste control program
- Volunteering opportunities for pond and drainage system debris removal, and storm drain stenciling

Kane County's website provides environmental quality and stormwater quality information for the residents of Geneva.

BMP A.4 Community Event

Goal: Participate in or provide information for community events.

Status: Materials were available for community events from the Kane County website. The City hosted multiple community events open to the public including a pumpkin recycling event on November 4, 2023; a presentation regarding soil and water conservation on December 9, 2023; a presentation on understanding and using native plants in home landscape on March 23, 2024; and a presentation on the City's stormwater quality program update on February 20, 2024.

BMP A.6 Other Public Education

Goal: Educational Outreach - General Public

Status: The City's storm drain stenciling program has continued to educate people about dumping into City storm drains. New and repaired inlets are stamped with a no dumping message.

Public Participation / Involvement

BMP B.3 Stakeholder Meeting

The City will use the existing and proposed public involvement and participation programs that are being administered through the Kane County Department of Environmental Management. The City will also partner with other agencies and local groups to promote public participation in stormwater-related issues, encourage public participation on social media channels, and offer opportunities at public meetings for comments related to stormwater.

Goal: Meetings with Home Owner's Associations (HOAs) to discuss the importance of routine maintenance of ponds and storm sewers. Continue to offer HOA's assistance with the stormwater related issues as necessary. Continue to hold bi-monthly City Council meetings open to the public.

Status: The City is utilizing the existing and proposed public involvement and participation programs that are being administered through the Kane County Department of Environmental Management. City Council meeting are held bi-monthly.

BMP B.7 Other Public Involvement:

Goal: Continue to hold bi-monthly City Council meetings open to the public

Status: Geneva holds bi-monthly public meetings whereby residents have the opportunity to discuss issues related to stormwater management and pollution prevention. These meetings take place with City Council members and are normally televised. The MS4 Program was presented at a City Council meeting on February 20, 2024.

Information from USEPA is being reviewed to determine if the City needs to make program modifications to address Environmental Justice Areas (EJA).

Illicit Discharge Detection and Elimination

BMP C.1 Storm Sewer Map Preparation

Goal: Maintain and update as necessary the computerized stormwater mapping system. This map includes all storm sewer mains and associated appurtenances within the City of Geneva.

Status: The City continues to update and improve upon existing stormwater mapping information within the city's GIS. The City is working to incorporate stormwater outfalls into the City's GIS by obtaining GPS locations of each site in the field.

BMP C.10 Other Illicit Discharge Controls

Legal Authority and Enforcement Procedures - the City of Geneva Municipal Code, Chapter 25 Division 3 Section 25-65(d) states: "It shall be unlawful to discharge without NPDES permit to any natural outlet within the City of Geneva". When an illicit discharge is detected, the Geneva Fire Department is notified. They have jurisdiction to enforce "spiller pays" provisions that require the discharger to pay for all costs associated with cleanup activities. The Public Works Department works cooperatively with the Fire Department to assist with those cleanup activities.

Goal: When notified of an illicit discharge, the Geneva Fire Department will respond for enforcement activities and the Public Works Department will assist with cleanup activities.

Status: The City inspected its retention and detention area for evidence of illicit discharges and water quality issues. The City continued illicit discharge enforcement and cleanup activities on an as needed basis. No illicit discharges were detected.

Construction Site Runoff Control:

BMP D.1 Regulatory Control Program

The City has adopted ordinance 2001-73, an ordinance amending appendix E "Stormwater Management regulations" of the Geneva Municipal Code. This ordinance incorporates by reference all of the provisions of the Kane County Stormwater Management Ordinance which was adopted by the Kane County Board on October 9, 2001 and is enforced within the municipal limits by the City of Geneva. In addition, the City of Geneva Ordinance 2001-73 addresses the control of construction wastes as defined in Control Measure IV.

Goal: Continue to administer current ordinances related to new construction site runoff control.

Status: The City's Engineering Division and Building Department staff performed required inspections of construction site runoff control. Construction site BMP issues were addressed at a site at Mead Ct. in March 2023 and at Sunset and Meadows in January 2023.

Post-Construction Runoff Control

BMP E.7 Other Post Construction Runoff Controls

The City has adopted ordinance 2001-73, an ordinance amending appendix E "Stormwater Management regulations" of the Geneva Municipal Code. This ordinance incorporates by reference all of the provisions of the Kane County Stormwater Management Ordinance which was adopted by the Kane County Board on October 9, 2001 and is enforced within the municipal limits by the City of Geneva. It is the City's understanding that the implementation of this ordinance will satisfy the provisions of this section of our Notice of Intent (NOI).

Goal: Continue to administer current ordinances related to new post-construction site runoff control.

Status: The City's Engineering Division performed required inspections of post-construction site runoff control. Retention and detention basins were evaluated for maintenance needs and performance.

Pollution Prevention / Good Housekeeping:

BMP F.1 Employee Training Program

Employee Pollution Prevention Reference Manual & Employee Training Program - The City will provide its employees with an Employee Pollution Prevention Reference Manual which outlines practices and procedures they should undertake during the workday to prevent the release of pollutants into the City's storm sewer system. The City will also conduct or participate in an annual pollution prevention seminar for the City's Public Works Department to give them formal instruction on the proper handling and disposal of wastes to prevent them from entering the storm sewer system.

Goal: Distribute employee pollution prevention reference manual to all Public Works employees. Conduct a short training session for Public Works employees.

Status: Instructor-led stormwater pollution prevention training occurred on March 7, 2024. 38 staff members attended from several Public Works divisions.

BMP F.2 Inspection and Maintenance Program

Goal: The City will regularly conduct sweeping of streets and parking lot, cleaning at least 100 catch basins in high traffic areas and on arterial snow routes.

Status: Regular sweeping of streets and public parking lots was performed within the City. Approximately 4,000 miles were swept. 250 catch basins were cleaned.

BMP F.6 Other Municipal Operations Controls

Goal: Whenever necessary, public vehicles will be washed in a facility that collects the runoff and discharges it into a triple basin system then to the sanitary sewer system.

Status: Continued cleaning of public vehicles at facilities that collect runoff for discharge through a triple basin collector to sanitary sewer.

All City vehicles and equipment are inspected once every month or every 3,000 miles for preventative maintenance. Cleaning of public vehicles is performed at a facility that collect runoff for discharge through a triple basin collector tributary to a sanitary sewer. All used motor oils, fluids, batteries, tires, etc. are recycled through approved recycling programs. The City's underground waste oil tank is inspected regularly as required by the State Fire Marshall.

Road salt is stored in a permanent, covered structure. BMPs for deicing material storage and handling are performed.

C. RESULTS OF INFORMATION COLLECTED AND ANALYZED

The City participates within the Fox River Study Group (FRSG) which implements a regional water quality monitoring and assessment program. The data collected by the Study Group is available for public review and MS4 program implementation. The FRSG annual report is attached.

D. SUMMARY OF ACTIVITIES PLANNED DURING NEXT REPORTING CYCLE

Public Education and Outreach

BMP A.1 Distributed Paper Material

The City distributes an informational flyer to the residents which outlines what is considered an illicit discharge and identifies practices and procedures they can use to eliminate these discharges into the City's storm sewer system. The City of Geneva also distributes literature on the County's Recycling and Household Hazardous Waste Programs (See Kane County's NOI, Control Measure I for more information on this literature).

Goal: Continue to produce and distribute education materials.

BMP A.6 Other Public Education

Goal: Educational Outreach - General Public

Public Participation / Involvement

BMP B.1 Public Panel

The City of Geneva holds a bi-weekly meeting of the City Council which is open to the public. Residents can attend this meeting and have the opportunity to address the Council on issues relating to stormwater management.

Goal: Provide an agenda item for the MS4 program each year at a public meeting for resident comments.

BMP B.3 Stakeholder Meeting

The City will use the existing and proposed public involvement and participation programs that are being administered through the Kane County Department of Environmental Management. The City will also partner with other agencies and local groups to promote public participation in stormwater-related issues, encourage public participation on social media channels, and offer opportunities at public meetings for comments related to stormwater.

Goal: Meetings with Home Owner's Associations (HOAs) to discuss the importance of routine maintenance of ponds and storm sewers. Continue to offer HOA's assistance with the stormwater related issues as necessary. Continue to hold bi-weekly City Council meetings open to the public.

BMP B.7 Other Public Involvement:

Goal: Continue to hold bi-weekly City Council meetings open to the public.

Illicit Discharge Detection and Elimination

BMP C.1 Storm Sewer Map Preparation

Goal: The City will continue to maintain and update as necessary our computerized stormwater mapping system. This map includes all storm sewer mains and associated appurtenances within the City of Geneva.

BMP C.2 Regulatory Control Program

Goal: Implement the Municipal Code, Chapter 25 Division 3 Section 25-65 (d) that prohibits illicit discharges.

BMP C.5/C.10 Illicit Source Removal Procedures/Other Illicit Discharge Controls

When an illicit discharge is detected, the Geneva Fire Department is notified. They have jurisdiction to enforce "spiller pays" provisions that require the discharger to pay for all costs associated with cleanup activities. The Public Works Department works cooperatively with the Fire Department to assist with those cleanup activities.

Goal: Implement Illicit Source Removal Procedures.

BMP C.7 Visual Dry Weather Screening

Goal: Continue to conduct dry weather screening of outfalls to receiving streams as a part of storm sewer structure cleaning and maintenance and to identify illicit discharges.

Construction Site Runoff Control:

BMP D.1/D.2/D.3/D.4/D.6 Construction Site Runoff Control

The City has adopted ordinance 2001-73, an ordinance amending appendix E "Stormwater Management regulations" of the Geneva Municipal Code. This ordinance incorporates by reference all of the provisions of the Kane County Stormwater Management Ordinance which was adopted by the Kane County Board on October 9, 2001 and is enforced within the municipal limits by the City of Geneva. In addition, the City of Geneva Ordinance 2001-73 addresses the control of construction wastes as defined in Control Measure IV.

Goal: The City will continue to administer current ordinances related to new construction site runoff control, enforce the erosion and sediment control ordinance, review site plans when submitted, and preform construction site inspections as needed.

Post-Construction Runoff Control

BMP E.2/E.3/E.4/E.5/E.6 Post-Construction Runoff Control

The City has adopted ordinance 2001-73, an ordinance amending appendix E "Stormwater Management regulations" of the Geneva Municipal Code. This ordinance incorporates by reference all of the provisions of the Kane County Stormwater Management Ordinance which was adopted by the Kane County Board on October 9, 2001 and is enforced within the municipal limits by the City of Geneva.

Goal: The City will continue to administer current ordinances related to new post-construction site runoff control, review site plans when submitted, preform site inspections during construction, and preform a final inspection of new development when required.

Pollution Prevention / Good Housekeeping:

BMP F.1 Employee Training Program

Employee Pollution Prevention - The City will provide its employees with information that outlines practices and procedures they should undertake during the workday to prevent the release of pollutants into the City's storm sewer system. The City will also conduct or participate in an annual pollution prevention seminar for the City's Public Works Department to give them formal instruction on the proper handling and disposal of wastes to prevent them from entering the storm sewer system.

Goal: Distribute employee pollution prevention information to all Public Works employees. Conduct a short training session for all Public Works employees.

BMP F.2 Inspection and Maintenance Program

The City of Geneva continues to operate a storm water runoff program that includes a monthly inspection of storm water detention/retention facilities, box culverts and bridges to identify and remove debris that can lead to storm sewer blockages and water quality problems downstream.

Goal: The City will clean catch basins in high traffic areas and on arterial snow routes.

BMP F.3 Municipal Operations Storm Water Control

In order to minimize the pollutant runoff from City owned parking lots and public streets, the City will continue its sweeping operations within the entire City limits (~200 curb miles) once per month between April 1 and November 30 of each year.

Goal: The City will regularly conduct sweeping of streets and parking lots, and maintenance of catch basins in high traffic areas and on arterial snow routes.

BMP F.4 Municipal Operations Waste Disposal

Goal: All City of Geneva vehicles and equipment are inspected once every month or every 3,000 miles for preventative maintenance. All used motor oils, fluids, batteries, tires, etc. are recycled through approved recycling programs.

BMP F.6 Other Municipal Operations Controls.

Goal: Whenever necessary, public vehicles will be washed in a facility that collects the runoff and discharges it into a triple basin system then to the sanitary sewer system.

E. NOTICE OF RELIANCE ON ANOTHER GOVERNMENT ENTITY

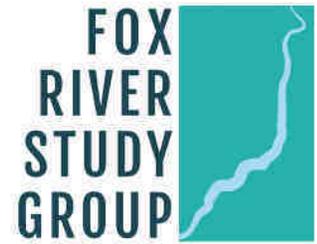
The City relies on the Fox River Study Group (FRSG) for water quality monitoring. All other minimum control measure commitments are implemented by the City, with Kane County providing additional public education and information for Geneva residents. The Kane County annual report and the FRSG annual report are attached.

F. ACTIVE CONSTRUCTION SITES

The following construction projects which have a disturbed area greater than one (1) acre were active during the reporting period.

- Geneva Industrial Development (PEG:828.00-IL) ILR10ZD10
- Fox Valley Commerce Center ILR10ZBTH
- Project Panther ILR10ZCT3
- Fox Valley Commerce Center ILR10ZBTH
- Dara Properties ILR10ZBL4
- UPRR Kress to Peck MP 32.00 to MP 38.41 ILR10ZC5K
- Settlers Hill Temp Cart Path and Parking ILR10ZBNK
- Geneva Industrial Development (PEG:828.00-IL) ILR10ZD10

The City’s FY 2023 Streets Improvement Project and IL Route 25 Watermain Replacement Project were also active.



2023 IEPA Annual Report

Background

For over two decades, a diverse coalition of stakeholders (see Directors sidebar and Supporters list) has been leading a watershed-wide effort to understand and improve the water quality of the Fox River and its tributaries for the Fox River Study Group (FRSG). This undertaking has received wide-spread financial and in-kind support from watershed communities, water reclamation districts, environmental organizations and foundations. Our efforts have been backed by the USEPA, IEPA, Chicago Metropolitan Agency for Planning and engaged the scientific expertise of the Illinois State Water Survey (ISWS), United States Geological Survey (USGS) and private consultants. For seven years, the Fox River Study Group was implementing its first Fox River Implementation Plan since its completion in 2015. Now the FRSG is following the recommendations of a 2022 update of the FRIP which IEPA received on December 30, 2022. Throughout 2023, the FRSG continued to meet on a monthly basis and the group's activities were supplemented by committee actions. All board meetings were conducted virtually in 2023. A 20th anniversary annual meeting celebration was held on November 9th at the Centre in Elgin at which the group's funders and volunteers received certifications of appreciation.



Modeling

To make informed decisions about how best to maintain and improve the quality of the Fox River in our urbanizing watershed, the FRSG has developed two computer models of the Fox River watershed – an HSPF model and a QUAL2K model. Updates of these models were completed by Geosyntec Consultants with the HSPF model update completed in 2018 and a QUAL2kw update, a dynamic version of QUAL2k, completed in 2019.

Board of Directors:

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Modeling work completed in 2023 was an update of a HSPF subwatershed model that was used to develop a watershed-based plan for the Indian Creek watershed in Kane County. This planning effort was led by Holly Hudson of the Chicago Metropolitan Agency for Planning along with a Technical Advisory Committee that included a number of FRSG board members. Geosyntec Consultants updated the FRSG's HSPF model for this effort with funding provided by the FRSG.

Monitoring & Analysis

In April 2023 the FRSG began the 22nd year of its all-volunteer water quality monitoring program. This data collection includes monthly monitoring of 7 mainstem locations and 7 tributary locations along a 67-mile stretch of the Fox River from Johnsburg to Yorkville. Laboratory analysis and data management are donated as in-kind services by the City of Elgin, the Fox River Water Reclamation District and the Fox Metro Water Reclamation District. These data have been utilized to support the ongoing modeling efforts and to periodically assess water quality trends.

The Illinois State Water Survey (ISWS) updates the FoxDB for the FRSG, which is the publicly available, online water quality monitoring database. In 2023, the ISWS continued its work to update the FoxDB and completed a new water quality trends analysis.

The FoxDB environmental database (see <http://ilrdss.sws.uiuc.edu/fox/>) was last updated on December 21, 2023. ISWS staff are also periodically providing Fox Watershed data for incorporation into the Great Lakes to Gulf Virtual Observatory (see <https://greatlakestogulf.org/>) which is an interactive application that provides user-friendly access to water quality information about the Mississippi River and its tributaries.

The water quality trends analysis, including the analysis of trends in chloride, conductivity, turbidity, water temperature, pH, and chlorophyll levels in the watershed, was received from ISWS on December 28, 2023. The full report is available at <https://www.ideals.illinois.edu/items/129469>. In addition, ISWS staff developed a web application that helps one view the water quality trends, including trend maps, water quality data factsheets for each constituent studied, and exploratory data analysis (EDA) outputs by monitoring site. Tableau dashboards were also created for better visualization of the data. These additional tools as well as the Fox DB can be found in the [ISWS 2023 Trends Report Folder](#).

Additional monitoring is also continuing at the upstream boundary of the group's study area. The FRSG currently has a three-year contract through September 30, 2024 with the USGS to collect more real-time data at the Stratton Dam. A new water quality monitoring station was installed by USGS in August 2018 at the dam ([USGS Station #05549500](#)). During the growing season, continuous measurements of temperature, pH, conductivity, dissolved oxygen, chlorophyll a, blue-green algae and turbidity are collected at this station. The USGS is also collecting in-situ measurements at the Stratton Dam to characterize the upstream boundary condition. The discrete samples are collected on a monthly basis during station equipment calibration and are analyzed for chlorophyll a, Nitrogen-Ammonia, Nitrogen Nitrate + Nitrite, Total Nitrogen (includes filtered organics), Phosphate-Orthophosphate, and Total Phosphorus. Since August 2019, the USGS has been utilizing the blue green algae sensing capabilities of the chlorophyll sensor to report that data at the station's website.

Reports

2022 Fox River Implementation Plan (FRIP) As the FRSG is using the 2022 FRIP to guide our work for the next ten years, here we are providing links to the report (which are also available at our website) along with the plan's major findings.

- The Executive Summary of the 2022 FRIP can be found at tinyurl.com/FRIP2022ExSum. The full plan and its appendices are located at tinyurl.com/2z9ksn63.

The plan's major findings for the Fox River Study Group and our watershed partners are:

- Major wastewater treatment plants should proceed with capital improvements to achieve a 0.5 mg/L annual geometric mean total phosphorus limit by 2030;
- FRSG should focus on collaborating with partners to support removal of dams along the mainstem river and monitor the resulting water quality impacts when the U.S. Army Corps of Engineers completes the Fox River Connectivity & Habitat Study;
- FRSG should encourage state-of-the-art watershed management practices that can mitigate the impact of projected population growth in the FRIP study area;
- FRSG should leverage statewide work on evaluation of streambank erosion and quantify its impact on phosphorus loads in the watershed;
- FRSG should partner with efforts to reduce nutrients entering the FRIP study area from Illinois and Wisconsin and should also partner with agricultural entities;
- FRSG should continue to engage, collaborate, and partner with other agencies and organizations, including those in Wisconsin, to progress towards the goal of eliminating the impairments in the river due to other pollutants besides nutrients and therefore removing the river from the Illinois EPA list of impaired waters.

In 2023, the FRSG board and membership has continued to work with entities throughout the Fox River watershed to build community support and to find the resources needed to implement the identified projects in the 2022 FRIP.

2023 Illinois State Water Survey Report: *Water Quality Trends for Selected Constituents in the Fox River Watershed: Stratton Dam to the Illinois River*

- ISWS Contract Report 2023-03 is available at <https://www.ideals.illinois.edu/items/129469>
- Web tools and Tableau dashboard can be found in the [ISWS 2023 Trends Report Folder](#).

Fox River Connectivity & Habitat Study In 2023, the FRSG continued to work with the U.S. Army Corps of Engineers (Corps) and the Illinois Department of Natural Resources to complete the Corps' Fox River Connectivity & Habitat Study (Study). The Corps held periodic meetings with their IDNR and FRSG partners throughout 2023 as they worked to finalize the Study and their Tentatively Selected Plan (TSP). Corps staff provided updates to the watershed community at the March Fox River Summit and the November FRSG Annual Meeting.

On September 5, the draft Study entitled draft Project Implementation Report and Environmental Assessment (PIR/EA) for the Fox River Connectivity & Habitat Study in Kane and McHenry Counties, Illinois was released for a 60-day public comment period. Three public meetings were held during the public comment period. At each of these meetings, engineer Art Malm, who represents Friends of the Fox River on our board, provided the Fox River Study Group's findings on the impacts of dams on water quality in the Fox River. The Study Group's key message is that dam removals are necessary and cost effective for improving water quality in our reach of the river. Our modeling predicts dam removal is necessary to resolve river dissolved oxygen impairments. Without dam removal further reductions in discharged phosphorus by wastewater treatment plants improvements would have an insignificant impact on total algae populations and not eliminate the dissolved oxygen impairments in dam impoundments despite the high cost of those improvements. Throughout the past year, FRSG also provided a lot of information to the community on why dam removal makes sense at our website and through other communication materials. During the public comment period, the FRSG provided the Corps with all the analyses that went into the 2022 FRIP's recommendation for the FRSG to support removal of dams along the mainstem river in order to improve water quality in a cost-effective manner.

The FRSG made a second local cost-share payment of \$90,300 to IDNR in 2023. The Corp's final Director's Report on the completed study is scheduled to be released in March 2025. Corps' [website](#) on the Fox River Connectivity & Habitat Study, IL.

Public Outreach

The FRSG continued public outreach on the findings of the 2022 Fox River Implementation Plan (FRIP), including how the plan's findings inform the Army Corps of Engineer's Fox River Connectivity and Habitat Study on the impacts of the Fox River dams on river water quality. 2023 outreach efforts included:

Presentations-

Fox River Ecosystem Partnership January 11 Fox River Study Group Update- Cindy Skrukrud, FRSG Chair [slides](#)

Fox River Summit March 16

- 2022 Update of the Fox River Study Group's Fox River Implementation Plan (FRIP)- Cindy Skrukrud, FRSG Chair [video](#)
- Fox River Connectivity & Habitat Study: ecosystem restoration and dams assessment on the Fox River (IL) - Ryan Johnson, Biologist, US Army Corps of Engineers, Chicago District [video](#)

Illinois Association of Wastewater Agencies Technical Session July 14 Watershed Workgroups Roundtable Discussion- Karen Clementi, FRSG Treasurer [slides](#)

U.S. Army Corps of Engineers Public Meetings on the Fox River Connectivity and Habitat Study Tentatively Selected Plan

- Art Malm, FRSG's Dam Communications Subcommittee Chair, present at meetings on September 18 in St. Charles, September 19 in Elgin [video](#) and September 20 in Aurora

FRSG 20th Anniversary Annual Meeting November 9

- 20 Years of the Fox River Study Group- Cindy Skrukrud, Fox River Study Group Chair [slides](#)
- Wastewater Treatment Plants Nutrient Reduction Progress Report- Karen Clementi, District Manager Fox Metro WRD and Tim Wilson, Public Works Manager-Environmental Services, City of St. Charles [slides](#)
- Dam Removal: An Opportunity to Develop Resilient Communities and Restore River Ecosystems- Serena McClain, Senior Director, River Restoration and Dam Removal Program, American Rivers [video](#)
- Current Status of the Fox River Fishery, Effects of Dams and Benefits of Dam Removal- Tristan Widloe, Region II Stream Specialist, IDNR [slides](#)
- USACE Fox River Habitat & Connectivity Study Next Steps- Ryan Johnson, Biologist and Cody Johnson, Project Manager, USACE, Chicago District [slides](#)

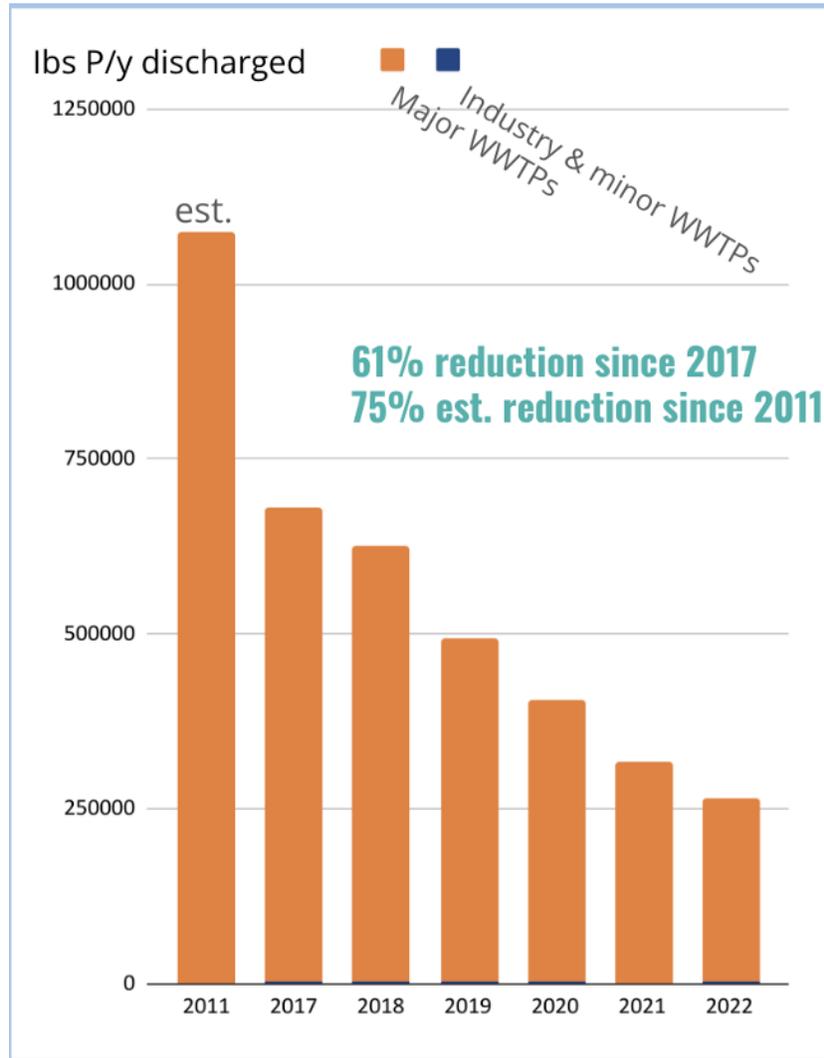
FRSG Lunch & Learn November 30 What's New on GLTG- Laura Kammin and Jong Sung Lee, Great Lakes to Gulf Virtual Observatory [video](#), Passcode: 89S=e#f7

Point Source Nutrient Reductions

The major (discharge > 1 mgd) wastewater treatment facilities were issued permits with phosphorus reduction requirements during the previous permit cycle. In late 2018 and extending into 2019, the Fox River permits were issued with updated phosphorus compliance schedules. Most wastewater treatment facilities are on schedule to meet their phosphorus limit of 1.0 mg/l annual average by various dates through 2023. Phosphorus discharge optimization plan (PDOP) requirements were added to most major permits during this permit cycle, requiring a comprehensive study of potential phosphorus input reductions and operational improvements at the wastewater treatment plants. These PDOPs are mostly complete for major permittees watershed-wide.

Trevor Sample of IEPA provided the FRSG with data for Fox River watershed dischargers from the dataset that he now compiles annually for the Illinois Nutrient Loss Reduction Strategy. These data show the progress being made in the Fox River watershed in reducing phosphorus inputs by the wastewater sector. Major WWTPs completed reductions to meet the 1 mg/l annual mean TP limit and 75% load reduction target included in the first FRIP (2015) by the end of 2022. Compilation of the 2023 data is scheduled to be completed in Spring 2024.

Wastewater Total Phosphorus Reductions in the Fox River Watershed



Financial Solvency

The FRSG is a 501c3 not for profit organization. Independent audits are performed annually to ensure proper financial management and a copy of the most recent audit is available upon request. FRSG continues to be funded by member agencies in the watershed at the rate of 25¢ per capita. At the beginning of each year, a contribution request is sent to communities. FRSG maintains a sufficient balance to fund activities and these funds are allocated to completing the action items described above: modeling, monitoring, public outreach, and the U.S. Army Corps of Engineers Fox River Habitat & Connectivity Study. In 2021, the group also updated our budget and long-term financial plan.

Financial and In-Kind Supporters

The Fox River Study Group greatly appreciates the continued support from:

Financial Support

Village of Algonquin
City of Aurora
Village of Barrington
City of Batavia
Village of Carpentersville
Village of Cary
Village of East Dundee
Village of Elburn
City of Elgin
Fox River Water Reclamation District
City of Geneva
Village of Gilberts
Kane County
Lake in the Hills Sanitary District
City of Plano
Village of Sandwich
City of St. Charles
Yorkville-Bristol Sanitary District
Village of Wauconda
City of Yorkville

In-Kind Support

Village of Algonquin
City of Crystal Lake
City of Elgin
Environmental Defenders of McHenry County
Fox Metro Water Reclamation District
Fox River Water Reclamation District
Friends of the Fox River
Northern Moraine Water Reclamation District
Illinois EPA
Illinois Department of Natural Resources
Illinois State Water Survey
City of St. Charles
Sierra Club
Yorkville-Bristol Sanitary District

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

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	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/
- 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
- 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
- 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 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>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>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 6th, with around 100 attendees Gail Borden Public Library on February 7th with around 40 attendees Aurora Santoria Public Library on February 16th with around 25 attendees Hawthorne Nature Center on February 24th 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. https://www.youtube.com/watch?v=SBlyJSCMPrg</p>

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. The Clean Water for Kane information and flyers were presented at:</p> <ol style="list-style-type: none"> 1. Climate Action Talk with Bill Foster on November 18th, 2023 in McHenry County.

	<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' PSA with a play button icon and the text 'Check out Kane County's new PSA on how to conserve water!'. Below the video is a still image of a brown paper bag with 'CLEAN WATER FOR KANE' and 'CountyofKane.org' printed on it, decorated with a butterfly and a dragonfly. A sidebar on the left contains links for Kane County News, Meeting Agenda & Minutes, Press Releases, Article Archive, and Newsletter Sign-up.</p>
	<p>PSA on Kane County website</p>

4. BMP A.4—Community Event

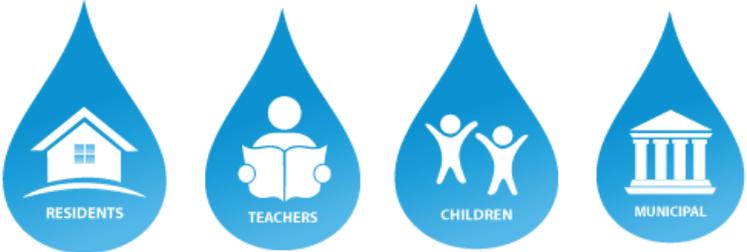
MEASURABLE GOALS	<p>Educate residents and other stakeholder groups on stormwater Best Management Practices through participation in environmental and watershed special events in the community, and regular community education/training events including the annual well and septic seminar hosted by the Kane 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, 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"> • One Earth Film Festival [3/09/23, + 408 virtual and 37 in person registrants]

	<ul style="list-style-type: none"> • Kane County Rain Barrel Sale Webinar [4/25/2023, 12 attendees] • Elgin (60) and Geneva Earth Day events (75) [4/22/23, 135 attendees combined] <p>The Kane County Health Department hosted its annual Well & Septic educational event on April 27th. 8 county residents attended the event.</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 & 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 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>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 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>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;">  </div> <p style="text-align: center;"><i>Stormwater Education page of the Kane County website:</i> www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx</p> <p>In addition, six water-related articles were published in <i>Kane County Connects</i>:</p> <ul style="list-style-type: none"> • Mapping the Flow of Stormwater Drainage and Why it Matters[6/12/23] https://www.kanecountyconnects.com/article/KaneCountyGovernment-Stormwater-Map • <i>Illinois EPA Invests Over a Half Billion Dollars in Drinking Water and Wastewater Projects Including Two in Kane County</i> [8/25/23] https://kanecountyconnects.com/article/Batavia-PingreeGrove-IEPA • <i>Illinois and FEMA Floodplain Management Webinars</i> [2/27/24] https://kanecountyconnects.com/article/StormwaterManager-KaneCountyDivisionofEnvironmentalandWaterResources • <i>Well Water Testing Kits Available For Purchase October 17-28</i> [9/27/22] https://kanecountyconnects.com/article/water-well-testing-kits • <i>Smart Salting for a Better Environment</i> [1/31/2024] https://kanecountyconnects.com/article/smartsalting-roadsalt-environment-deicing-ecosystem-waterquality

	<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

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.

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 – [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]

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 [3/23/23, 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] • 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] <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 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

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	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 th 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

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 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 & 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>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

<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 2023 - February 20243</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Location</th> <th>Issue</th> <th>Outcome</th> </tr> </thead> <tbody> <tr> <td>4/16/23</td> <td>45W254 Dietrich Rd, Hampshire Township</td> <td>Landowner reported suspected illicit discharge emanating from farm field tile outfall into agricultural channel</td> <td>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>5/6/23</td> <td>9N189 Muirhead Rd</td> <td>Adjacent neighbor called about black residue percolating from ground in vicinity of the landowner's septic system and flowing onto his property</td> <td>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.</td> </tr> <tr> <td>5/15/23</td> <td>860 N. Lyle Ave, City of Elgin</td> <td>Residents reported a potential sanitary sewer discharge into Tyler Creek</td> <td>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.
Date	Location	Issue	Outcome																	
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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.																	

	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

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 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

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, 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

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, 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

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: 5/05/23, 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>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 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 & 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-</p>

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

MEASURABLE GOALS	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.
RESULTS	<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 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 & 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

MEASURABLE GOALS	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.
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 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 & 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.



Registration will be available at SaltSmart.org in August

SALT SMART COLLABORATIVE

SAVE THE DATE

2023 Virtual Deicing Workshops

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



DuPage River
Salt Creek
Workgroup



LOWER DES PLAINES
WATERSHED GROUP



Chicago Area Waterways
CHLORIDE WORKGROUP



LOWER DUPAGE RIVER
WATERSHED COALITION



THE
CONSERVATION
FOUNDATION



LAKE COUNTY
STORMWATER MANAGEMENT COMMISSION



LakeCounty
Division of Transportation



LakeCounty
Health Department and
Community Health Center

Outreach Sponsors:



DES PLAINES RIVER
WATERSHED
WORKGROUP



THE COUNTY OF DUPAGE



NORTH BRANCH
CHICAGO RIVER
WATERSHED
WORKGROUP

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:

Project Name
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