

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)**  
**YEAR 4: March 1, 2019 - February 29, 2020**

**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 27, 2016.

**II. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS**


Kane County submitted a Notice of Intent on May 27, 2016, 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 2016 Notice of Intent have been implemented on or ahead of schedule, with the exception of select items noted in their descriptions below.


**A. PUBLIC EDUCATION AND OUTREACH**

**1. BMP A.1—Distributed Paper Material**

<b>MEASURABLE GOALS</b>	Include “Water Wise Corner” in the <i>Kane County Recycles Green Guide</i> , which is developed and distributed throughout Kane County on an annual basis. Revise “Water Wise Corner” every spring. Track the total number of recipients each year.
<b>RESULTS</b>	The “Clean Water for Kane” section was included in the <i>Kane County Recycles Green Guide</i> for 2020, which was distributed to 45,000 residents countywide via 30,000 print copies and 15,000 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).



and



**NEW FEATURE**

present:

Use LESS. Use WISELY.

### ENERGY

- **Use ENERGY STAR** rated appliances to conserve energy: dishwashers, refrigerators, and laundry machines.
- **Stop idling** your vehicle: Idling wastes fuel and money, is unnecessary for most modern vehicles, and contributes to air pollution.
- **Use lighting, heating, and cooling modestly**, taking advantage of natural lighting and using a "smart" thermostat. Turn off when not in use.
- **Insulate:** particularly in attics and basements where most heat is lost. Use door draft stoppers in winter.
- **Bike, walk, or use public transportation** when possible: Reducing single-passenger vehicle miles travelled drastically reduces fuel consumption and greenhouse gas emissions.

### WATER

- **Use WaterSense** rated fixtures to conserve water: 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 is harming our water resources. Shovel first, then apply salt wisely.
- **Protect:** Only rain down the storm drain. Keeping household chemicals, cleaners, and lawn chemicals (pesticides, herbicides, & fertilizers) from being dumped into or washed down storm drains.

### RESOURCES


- **Move toward reusables:** Mugs, bags, food storage, service ware, toiletries... this list is endless. Specifically, avoid single-use plastics and plastic packaging.
- **Utilize organics:** Reduce waste and compost food scraps to return nutrients to the soil rather than send them to a landfill, where they become unusable waste and create methane gas emissions.
- **Conscientious purchasing:** Buy only what you need, being conscious of what the product is made of, how far it travelled to reach you, and how long you will use it for.

**Does one disposable cup matter? One straw? One bag? The answer is definitely – yes.**

The choices of each individual matter. After all, with 7.7 billion people in the world and approximately 535,000 of those people in Kane County, those "ones" add up to be a detriment to the planet... or a lifeline, if we all make one more decision to be conscious of the resources we use and waste we create. That is one LESS plastic bag, or disposable, unnecessary item multiplied by <you decide this number> because of your choices.


If each person in Kane County refused one straw, we could eliminate the equivalent of 76 miles of straws.

-Jessica Mino, Resource Management Coordinator for the Division of Environmental and Water Resources



**Kane County Spring Rain Barrel Sale**

Details will be available at: [www.countyofkane.org](http://www.countyofkane.org)  
 – Division of Environmental and Water Resources webpage



Learn more about going solar at a **Solar Power Hour** near you, expected to begin in April 2020.  
 Presented by: Kane County, the Citizens Utility Board, and [Midwest Renewable Energy Association](http://MidwestRenewableEnergyAssociation.org).  
 Details can be found at: [www.solar.org/chicagoand/](http://www.solar.org/chicagoand/)

*Clean Water for Kane section of the Kane County Recycles Green Guide for 2019-2020*

## 2. BMP A.2—Speaking Engagement

MEASURABLE GOALS	<p>Provide educational presentations related to stormwater management on a regular basis through involvement in local watershed groups and other environmental committees, ensuring that a minimum of one public presentation is given per year. Track the number of speaking engagements, locations, topics presented, and number of attendees at each engagement.</p>
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<b>RESULTS</b>	<p>The presentations listed below were given by Kane County staff during the permit year of March 1, 2019 — February 29, 2020:</p> <ul style="list-style-type: none"> <li>• Fox River Watershed Summit in Burlington, WI — presentation on Fox River Water Trail Project [3/22/19, 150 attendees]</li> <li>• Kane County Water Resources “When It Rains” – presentation on backyard stormwater management and local flooding in Geneva [5/17/19, 10 attendees]</li> <li>• Local Responsibilities and the NFIP presentation in Geneva [6/6/19, 11 attendees]</li> <li>• Kane County Bioreactor FREP Noon Network Presentation in Campton Township – presentation on the Kane County bioreactor [6/12/19, 20 attendees]</li> <li>• Fox Valley Sustainability Network Forum in Elgin – forum on Plastic Pollution [9/25/18, 100 attendees]</li> <li>• Floodplain Design, Construction, and Impacts on Flood Insurance - webinar [10/22/19, 5 attendees]</li> <li>• Chicago Metropolitan Agency for Planning (CMAP) Counties Meeting in Chicago – presentation on Kane County sustainability programs [11/5/19, 12 attendees]</li> <li>• Kane County Stormwater Management Ordinance Qualified Review Specialist Question and Answer Session 1 – presentation on Stormwater &amp; BMPs to Municipal and Consulting Engineers in Geneva [1/22/20, 45 attendees]</li> <li>• Kane County Stormwater Management Ordinance Qualified Review Specialist Question and Answer Session 2 – presentation on Floodplain Regulations in Geneva [2/26/20, 47 attendees]</li> <li>• Kane County Farm Bureau Teacher Training Day in St. Charles – presentation on stormwater protection and bioreactors [2/28/20, 40 attendees]</li> <li>• Recycling Presentations that included information on proper Household Hazardous Waste Disposal in Batavia, Big Rock, East Dundee, Elgin, Geneva, Montgomery, and St. Charles [4/2/2019, 4/16/2019, 4/25/2019, 4/26/2019, 5/23/2019, 6/6/2019, 7/11/2019, 7/30/2019, 8/12/2019, 9/10/2019, 12/19/2019, 1/16/2020, 2/28/2020, and 3/4/2020, 514 total attendees]</li> </ul>
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### 3. BMP A.3—Public Service Announcement

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

	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-size: small;">Government A-Z Services Business Communities Calendar Maps Employment County Code Home</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p><b>Kane County, Illinois</b></p> <p style="font-size: x-small;">719 Batavia Avenue, Geneva, Illinois 60134 / Phone: 630-232-3400</p> <p style="font-size: x-small;">www.countyofkane.org</p> </div> <div style="text-align: right;"> <input style="width: 80px;" type="text" value="Google Custom Search"/> <div style="font-size: x-small;"> <span>Select Language</span>            Font Size: <span>A</span> <span>A</span> </div> </div> </div> <div style="margin-top: 5px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <ul style="list-style-type: none"> <li style="background-color: #003366; color: white; padding: 2px;">Kane County News</li> <li style="background-color: #003366; color: white; padding: 2px;">Meeting Agenda &amp; Minutes</li> <li style="background-color: #003366; color: white; padding: 2px;">Press Releases</li> <li style="background-color: #003366; color: white; padding: 2px;">Article Archive</li> <li style="background-color: #003366; color: white; padding: 2px;">Newsletter Sign-up</li> </ul> </div> <div style="width: 65%;"> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="margin-left: 10px;"> <p><b>Clean Water for Kane Video</b></p> <p style="font-size: x-small;">Check out Kane County's new PSA on how to conserve water!</p> </div> </div> <div style="text-align: center;"> <p style="font-size: x-small; margin-top: 5px;">Clean Water for Kane</p> </div> </div> <p style="text-align: center; margin-top: 10px;"><i>PSA on Kane County website</i></p> </div></div></div>
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**4. BMP A.4—Community Event**

<b>MEASURABLE GOALS</b>	<p>Educate residents and other stakeholder groups on stormwater Best Management Practices through participation in environmental and watershed special events in the community, and regular community education/training events including the annual well and septic seminar hosted by the Kane County Health Department. Coordinate a minimum of one public educational workshop per year and participate in other community outreach events. Track the number of events, locations, information distributed, and number of participants for each event.</p>
<b>RESULTS</b>	<p>Kane County staff participated in the community events listed below during the permit year of March 1, 2019 - February 29, 2020. 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> <ul style="list-style-type: none"> <li>One Earth Film Festival Sustainability Fair in Aurora [3/4/19, 105 attendees]</li> <li>Fox Valley Sustainability Network Green Infrastructure Forum in St. Charles [3/20/19, 60 attendees]</li> <li>STEM-A-Palooza in Aurora [4/13/19, 200 attendees]</li> <li>Batavia Montessori Academy Earth Day Celebration in Batavia [4/27/19, 150 attendees]</li> <li>Kane County Rain Barrel Sale and Pick-Up Day in St. Charles [5/23/19, 36 attendees]</li> </ul>



*Outreach at 'STEM-A-Palooza' 2019 in Aurora*

The Kane County Health Department also hosted two Well & Septic educational events for the public during the permit year. The sessions were provided in the afternoon [35 attendees] and evening [26 attendees] on 9/18/19 at the University of Illinois Extension in St. Charles.

#### 5. BMP A.5—Classroom Education Material

<p><b>MEASURABLE GOALS</b></p>	<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>
<p><b>RESULTS</b></p>	<p>During the permit year, the Kane County Division of Environmental &amp; Water Resources updated the youth educational resource list available on the County website at: <a href="http://www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation/children.aspx">www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation/children.aspx</a>.</p> <p>Additionally, the Division 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>

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

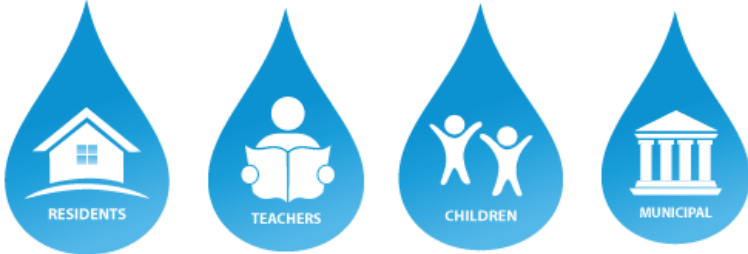
<p><b>MEASURABLE GOALS</b></p>	<p>The Kane County Division of Environmental &amp; Water Resources maintains a “Clean Water for Kane” website, and also develops seasonal stormwater-related</p>
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informational articles that are distributed through the *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.

**RESULTS**

During the permit year, the Kane County Division of Environmental & Water Resources updated the “Stormwater Education” pages on the County website.

### Stormwater Education



Stormwater Education page of the Kane County website:  
[www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx](http://www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx)

In addition, ten water-related articles were published in *Kane County Connects*:

- *One Earth Film Festival Screening of The Human Element* (2/22/2019): <http://kanecountyconnects.com/2019/02/one-earth-film-festival-screening-of-the-human-element-march-4-at-waubonsee/>
- *Green Infrastructure Forum Set for March 20* (3/11/2019): <https://kanecountyconnects.com/2019/03/green-infrastructure-forum-set-for-march-20-in-st-charles/>
- *World Water Day in Kane County* (3/25/2019): <https://kanecountyconnects.com/2019/03/march-22-is-world-water-day-2019-in-kane-county-il-heres-what-you-can-do/>
- *Countdown to Earth Day* series (16 articles) (4/22/2019): <https://kanecountyconnects.com/2019/04/earth-day-2019-take-the-next-step-toward-sustainability/>
- *Get Your Very Own Rain Barrel* (5/13/2019): <https://kanecountyconnects.com/2019/05/get-your-very-own-rain-barrel-in-a-variety-of-new-colors/>
- *Learn About Flooding-Stormwater at Kane County’s When It Rains Event* (5/14/2019): <https://kanecountyconnects.com/2019/05/learn-about-flooding-stormwater-at-kane-countys-may-17-when-it-rains-event/>
- *Step-by-Step Sustainability: How to Build a Rain Garden* (6/21/2019): <https://kanecountyconnects.com/2019/06/step-by-step-sustainability-how-and-why-to-make-a-rain-garden/>
- *Step-by-Step Sustainability: Sustainable Travel 101* (7/30/2019): <https://kanecountyconnects.com/2019/07/step-by-step-sustainability-travel-101-5-steps-for-an-environmentally-friendly-vacation/>

	<ul style="list-style-type: none"> <li>• <i>Teachers, Citizen Scientists, and River Caretakers: Monitor the Fox!</i> (8/8/2019): <a href="https://kanecountyconnects.com/2019/08/teachers-citizen-scientists-and-river-caretakers-monitor-the-fox/">https://kanecountyconnects.com/2019/08/teachers-citizen-scientists-and-river-caretakers-monitor-the-fox/</a></li> <li>• <i>First Ever, Historic River-Length Cleanup: It's Our Fox River Day</i> (9/10/2019): <a href="https://kanecountyconnects.com/2019/09/youre-invited-to-first-ever-historic-river-length-cleanup-its-our-fox-river-day-set-for-sept-21/">https://kanecountyconnects.com/2019/09/youre-invited-to-first-ever-historic-river-length-cleanup-its-our-fox-river-day-set-for-sept-21/</a></li> <li>• <i>Learn About Plastic Pollution at Forum in Elgin</i> (9/17/2019): <a href="https://kanecountyconnects.com/2019/09/learn-about-plastic-pollution-in-sept-25-forum-in-elgin/">https://kanecountyconnects.com/2019/09/learn-about-plastic-pollution-in-sept-25-forum-in-elgin/</a></li> <li>• <i>Road Salt Chloride Pollutes Kane Water: Deicing Workshop</i> (9/23/2019): <a href="https://kanecountyconnects.com/2019/09/road-salt-chloride-pollutes-kane-water-learn-how-to-stop-it-at-oct-3-kane-county-de-icing-workshop/">https://kanecountyconnects.com/2019/09/road-salt-chloride-pollutes-kane-water-learn-how-to-stop-it-at-oct-3-kane-county-de-icing-workshop/</a></li> <li>• <i>Step-by-Step Sustainability: Think Green When Getting Your Home and Yard Ready for Winter</i> (11/28/2019): <a href="https://kanecountyconnects.com/2019/11/step-by-step-sustainability-think-green-when-you-get-your-home-ready-for-winter/">https://kanecountyconnects.com/2019/11/step-by-step-sustainability-think-green-when-you-get-your-home-ready-for-winter/</a></li> </ul> <p><i>Kane County Connects</i> reaches 10,365 newsletter subscribers and over 6,641 followers on social media.</p>
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**7. BMP A.6 – Other Public Education**

<b>MEASURABLE GOALS</b>	The Kane County Division of Environmental & Water Resources maintains a supply of “Kane County Streams” signs to be installed at road crossings throughout the County. Kane County will provide the signs to MS4 communities as requested for installation within their own municipal boundaries, and will maintain a database of signs manufactured and installed throughout the year.
<b>RESULTS</b>	<p>During the permit year, Kane County provided stream signs to the following community:</p> <ul style="list-style-type: none"> <li>• Dundee Township — 12 signs for road crossings within the Township [Sept. 2019]</li> </ul>

**B. PUBLIC PARTICIPATION/INVOLVEMENT**

**1. BMP B.3—Stakeholder Meeting**

<b>MEASURABLE GOALS</b>	Kane County is involved in watershed planning and management efforts that seek input from a variety of watershed stakeholders. Provide notice of stakeholder meetings on the Kane County website and distribute meeting information to stakeholder email lists. Track the number of watershed meetings hosted or co-hosted by the County, meeting locations, topics discussed, and participation numbers.
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<b>RESULTS</b>	<p>During the permit year, the following stakeholder meetings were held by Kane County:</p> <ul style="list-style-type: none"> <li>• Mill Creek Watershed Plan Steering Committee – meeting to create a watershed plan [8/27/19; 18 attendees, including 3 Kane County staff]</li> <li>• Stormwater Technical Advisory Committee – meetings for Stormwater Ordinance revision process held at Kane County Government Center in Geneva [4/3/19; 23 attendees, including 4 Kane County staff]</li> <li>• Stormwater Management Planning Committee – meetings for Flood Control Commission, Comprehensive Stormwater Plan, and Stormwater Management Ordinance at the Kane County Government Center in Geneva [4/9/19 and 6/11/19; 20 attendees including 3 Kane County staff]</li> </ul> <p>All Stormwater Management Planning Committee meetings are open to the public, and agendas and minutes from these meetings are available on the County website: <a href="http://www.countyofkane.org/Pages/CountyBoard/committee.aspx?clD=52">www.countyofkane.org/Pages/CountyBoard/committee.aspx?clD=52</a></p>
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## 2. BMP B.5—Volunteer Monitoring

<b>MEASURABLE GOALS</b>	<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>
<b>RESULTS</b>	<p>Kane County staff served on the Board of Directors of the Fox River Study Group and as an advisor to the Fox River Ecosystem Partnership, attending the following meetings during the permit year:</p> <ul style="list-style-type: none"> <li>• Fox River Study Group meetings held in Oswego [6/27/19, 7/25/19, 8/15/19, 9/26/19, 11/21/19, 1/23/19, and 2/27/20], in Batavia [10/24/19], and via conference call [5/23/19, 12/12/19, 12/19/19, and 2/21/20]</li> <li>• Fox River Ecosystem Partnership meetings [6/12/19 in Campton Township, 8/14/19 in Crystal Lake, 9/11/19 in Barrington, and 1/8/20 in Elgin]</li> </ul> <p>In addition, the Kane County Division of Environmental &amp; Water Resources provided financial support of \$500 to the Friends of the Fox River for their volunteer monitoring program.</p> <p>A Joint Funding Agreement between Kane County and the U.S. Geological Survey was signed on 10/8/19 to cover the time period of October 1, 2019 through September 30, 2020. Kane County has committed \$61,760 of FY2020 funding to support stream and rainfall gages in the county.</p>

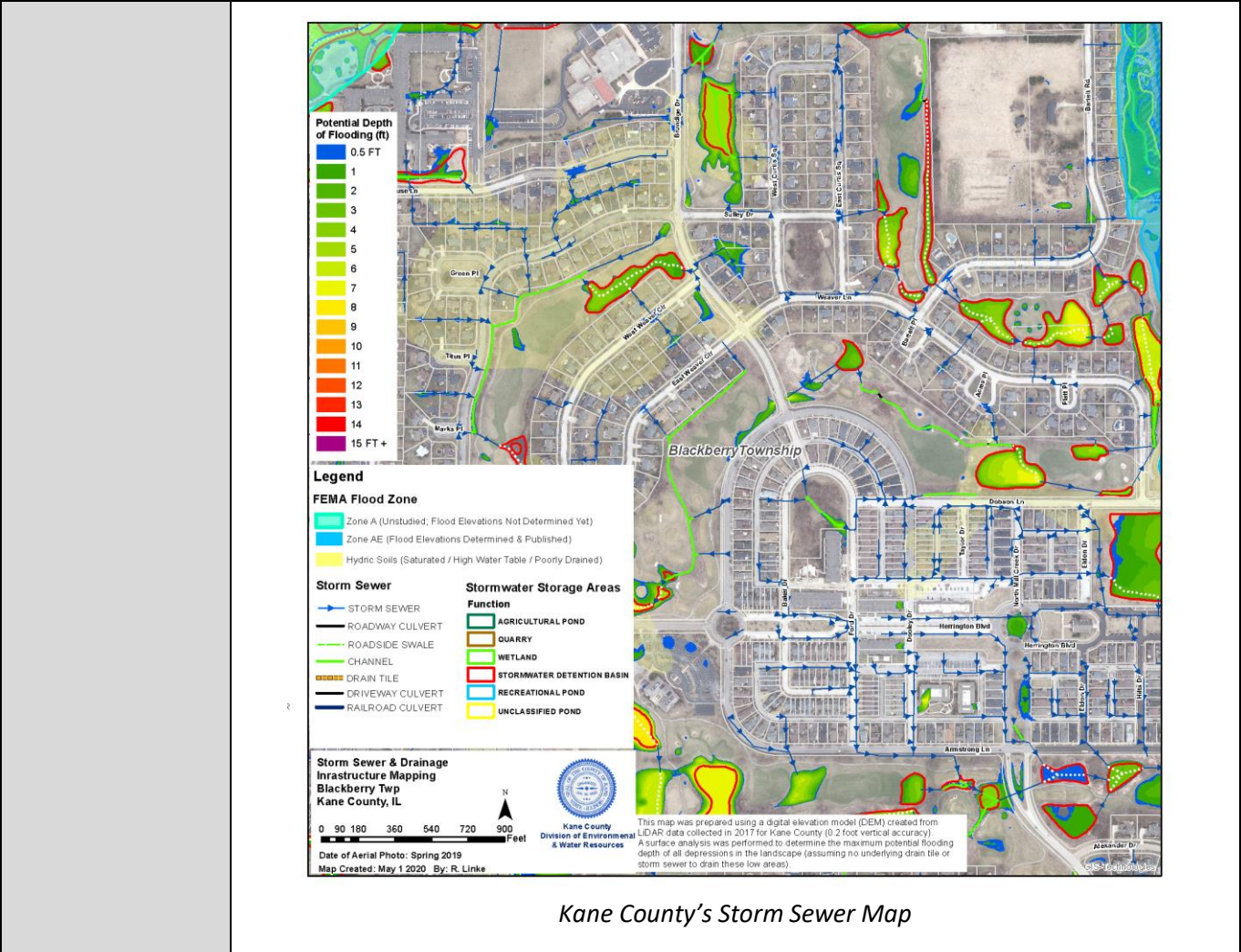
### 3. BMP B.7—Other Public Involvement

<p><b>MEASURABLE GOALS</b></p>	<p>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.</p>
<p><b>RESULTS</b></p>	<p>The Kane County Division of Environmental &amp; Water Resources provided \$500 in December 2019 to the Friends of the Fox River to support stream cleanups in the county.</p> <p>Kane County Division of Environmental &amp; Water Resources staff is a member of the Friends of the Fox River Education Design Team, attending the following meetings during the permit year:</p> <ul style="list-style-type: none"> <li>• Friends of the Fox River Education Design Team meetings held in Dundee [4/17/19, 9/4/19, and 2/19/20; 10 attendees, including 1 Kane County staff]</li> </ul> <p>Kane County also promoted river monitoring and cleanup volunteer opportunities via <i>Kane County Connects</i>: <a href="https://kanecountyconnects.com/2019/09/youre-invited-to-first-ever-historic-river-length-cleanup-its-our-fox-river-day-set-for-sept-21/">https://kanecountyconnects.com/2019/09/youre-invited-to-first-ever-historic-river-length-cleanup-its-our-fox-river-day-set-for-sept-21/</a></p>

## C. ILLICIT DISCHARGE DETECTION AND ELIMINATION

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

<p><b>MEASURABLE GOALS</b></p>	<p>Kane County will update its storm sewer mapping in GIS to include the location and size of all County-owned stormwater outfalls to receiving streams in the urbanized area, and will distribute up-to-date mapping and information across County departments including the Facilities, Transportation, and Emergency Management departments. Update the stormwater system map layer on an annual basis to incorporate new stormwater outfalls identified.</p>
<p><b>RESULTS</b></p>	<p>During the permit year, the Kane County Division of Environmental &amp; Water Resources continued to update County storm sewer mapping throughout the unincorporated areas of Kane County. As of March 2020, more than 313 miles of storm sewers, culverts, roadside ditches, channels, and drain tiles have been added to the mapping system. This is an additional 54 miles added to County maps since the previous reporting period. Maps of each parcel are available in PDF format to all County departments upon request.</p>



Kane County's Storm Sewer Map

**2. BMP C.2—Regulatory Control Program**

<p><b>MEASURABLE GOALS</b></p>	<p>Kane County will utilize regulatory authority to prohibit, inspect, and follow-up with enforcement for illegal discharges into the County's MS4 by following established procedures at the Kane County Health Department. Track the number of illicit discharges identified on an annual basis and document the actions taken to eliminate the discharges.</p>
<p><b>RESULTS</b></p>	<p>The Kane County Health Department has continued to enforce its regulatory authority to prohibit, inspect, and follow-up with enforcement for illegal discharges into the County's MS4. During this reporting period, the Health Department investigated 28 potential septic failure complaints. One complaint escalated to the County's Administrative Adjudication process to achieve compliance.</p>

### 3. BMP C.10—Other Illicit Discharge Controls

<p><b>MEASURABLE GOALS</b></p>	<p>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.</p>
<p><b>RESULTS</b></p>	<p>Kane County Health Department staff that deal with septic issues receive a minimum of three hours of continuing education each year. All staff that handle private sewage disposal system inspections attended a minimum of 3 hours of onsite sewage disposal training over the past year. The Kane County Health Department had 5 Environmental Health staff members attend a training on 3/7/19 in Senica, and 8 Environmental Health staff members attend a training on 2/25/20 in Carol Stream.</p>

### D. CONSTRUCTION SITE RUNOFF CONTROL

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

<p><b>MEASURABLE GOALS</b></p>	<p>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.</p>
<p><b>RESULTS</b></p>	<p>During the permit year, 60 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.</p> <p>The Kane County Division of Environmental &amp; Water Resources continued the process of revising the Stormwater Management Ordinance that began in 2017 by hosting monthly Stormwater Management Planning Committee meetings (see B.3—Stakeholder Meeting). The formal review process was completed in 2019, including review by government agencies and public hearings. The Stormwater Management Ordinance Updates were formally adopted on 6/1/19.</p>

## E. POST-CONSTRUCTION RUNOFF CONTROL

### 1. BMP E.2—Regulatory Control Program

<b>MEASURABLE GOALS</b>	The Kane County Stormwater Management Ordinance addresses all requirements of the Post-Construction Runoff Control measures, E.1-E.7. Implement and enforce the Kane County Stormwater Ordinance, maintaining and updating program documentation annually.
<b>RESULTS</b>	<p>During the reporting period, 50 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.</p> <p>The Kane County Division of Environmental &amp; Water Resources continued the process of revising the Stormwater Management Ordinance that began in 2017 by hosting monthly Stormwater Management Planning Committee meetings (see B.3—Stakeholder Meeting). The formal review process was completed in 2019, including review by government agencies and public hearings. The Stormwater Management Ordinance Updates were formally adopted on 6/1/19.</p>

## F. POLLUTION PREVENTION/GOOD HOUSEKEEPING

### 1. BMP F.1—Employee Training Program

<b>MEASURABLE GOALS</b>	Kane County will provide stormwater management training opportunities to County staff as well as other MS4 communities by coordinating a regular “MS4 Corner” e-newsletter, as well as by hosting webcasts. Maintain an email contact list for MS4 community representatives, and distribute the e-newsletter on a minimum of a quarterly basis. Host stormwater informational webcasts as relevant, tracking the number of trainings provided and the number of attendees.
<b>RESULTS</b>	During the permit year, the Kane County Division of Environmental & Water Resources regularly updated the MS4 contact list. Thirteen issues of the “MS4 Corner” newsletter were created and distributed to the contact list [Distributed on: 3/1/19, 3/12/19, 4/1/19, 5/2/19, 5/31/19, 7/1/19, 8/1/19, 9/1/19, 10/1/19, 10/11/19, 10/21/19, 11/1/19, and 12/1/19].



May 2, 2019

#### NPDES MS4 Annual Report Deadline - June 1st

The NPDES Annual Report for your **MS4 Permit** is due to the Illinois EPA by **June 1st**.

You can start preparing now by referring to Kane County's NPDES MS4 Annual Report [here](#).



#### "When It Rains..." Event

Join us for a spring event to explore residential stormwater management and flood preparedness.

#### *When It Rains...*

#### *Backyard Stormwater Management and Flood Preparedness*

The Kane County Division of Environmental & Water Resources is hosting an event, along with The Conservation Foundation and Office of Emergency Management, to promote the understanding of stormwater, ways to utilize it, and how to prepare for a flood.

**Friday, May 17th**  
**1:00 - 2:30 pm**

#### *Example issue of MS4 Corner*

During the permit year, Kane County hosted the following webcasts from the Center for Watershed Protection at the Government Center in Geneva:

- *Nutrient Trading* [4/10/19; 5 attendees, including 1 Kane County staff]
- *Monitoring for Stream Restoration and Green Infrastructure Practices* [10/16/19; 4 attendees, including 1 Kane County staff]
- *Salt & Stormwater: The Salinization of Our Watersheds* [11/20/19; 4 attendees, including 2 Kane County staff]

Sign in sheets from these webcasts are available upon request.

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 East Peoria [3/13/19-3/14/19; Attended by Jodie Wollnik]
- Michigan Floodplain & Stormwater Conference in Ann Arbor, Michigan [3/13/19-3/15/19; Attended by Anne Wilford]

	<ul style="list-style-type: none"> <li>• Association of State Floodplain Managers National Conference in Cleveland, Ohio [5/19/19-5/23/19; Attended by Rob Linke]</li> <li>• Enviroscape Training hosted by Friends of the Fox River in Dundee [9/4/19; Attended by Jessica Mino]</li> <li>• Hazard Mitigation Plan Workshop in Dekalb [12/4/19-12/5/19; Attended by Anne Wilford]</li> <li>• Climate-201: Identifying Climate Hazards &amp; Conducting Vulnerability Assessments Training hosted by the Association of Climate Change Officers in Itasca [12/9/19; Attended by Jessica Mino]</li> <li>• DuPage Environmental Summit hosted by The Conservation Foundation in Naperville [1/30/20; Attended by Jessica Mino and Karen Miller]</li> <li>• Natural Landscape Seminar hosted by the Wildflower Preservation and Propagation Council in Crystal Lake [2/29/20; Attended by Jessica Mino]</li> </ul>
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## 2. BMP F.2—Inspection and Maintenance Program

<b>MEASURABLE GOALS</b>	<p>Kane County will continue its established Operation and Maintenance Program – which includes the Division of Transportation clearing roadside swales once a year, and inspecting and cleaning catch basins and storm inlets quarterly. Kane County will also develop and adhere to an annual inspection and maintenance schedule for BMPs installed on County properties, and will utilize available tools to implement a BMP Inventory &amp; Evaluation Program. Inspect and maintain roadside swales, catch basins and storm inlets, and BMPs on County properties according to schedule, documenting pollutant load reduction on an annual basis.</p>
<b>RESULTS</b>	<p>During 2019, the Kane County Division 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 250 catch basins on Stearns Road and Randall Road north of Stearns Road.</p> <p>During the permit year, the Kane County Division of Environmental &amp; Water Resources also developed a BMP Inventory &amp; Evaluation spreadsheet (see section III) to track data for BMPs installed on Kane County owned properties.</p>

## 3. BMP F.4—Municipal Operations Waste Disposal

<b>MEASURABLE GOALS</b>	<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</p>
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	and recycle hazardous materials on an ongoing basis, documenting compliance with the procedures annually.
<b>RESULTS</b>	<p>The Kane County Division of Transportation continues to follow established vehicle maintenance and proper waste disposal procedures, maintaining internal records of these activities using CFA (Computerized Fleet Analysis) Software for fleet tracking.</p> <p>KDOT vehicles are inspected according to the following schedule:</p> <ul style="list-style-type: none"> <li>• Heavy trucks (snow plows, etc.)—every 2000 miles or 180 days</li> <li>• Light trucks and cars—every 5000 miles or 90-180 days</li> <li>• Heavy off-road equipment—every 50 hours or 180 days</li> <li>• Light off-road equipment—every 50 hours or 180 days</li> </ul>

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

<b>MEASURABLE GOALS</b>	Kane County will continue to implement the Kane County Hazard Mitigation Program. Host two Hazard Mitigation Committee meetings per year to coordinate ongoing implementation of the plan.
<b>RESULTS</b>	<p>The Kane County Emergency Management Department and Kane County Division of Environmental &amp; Water Resources continue to coordinate the implementation of the <i>Kane County Natural Hazards Mitigation Plan</i>, which was first adopted in 2003 and updated in 2015.</p> <p>During the permit year, Kane County hosted a Hazard Mitigation Committee meeting on October 23, 2019 at the Government Center in Geneva.</p> <p>In addition, the Kane County Division of Environmental &amp; Water Resources completed 5 cost-share projects to reduce flooding on unincorporated residential properties (property list available upon request).</p>

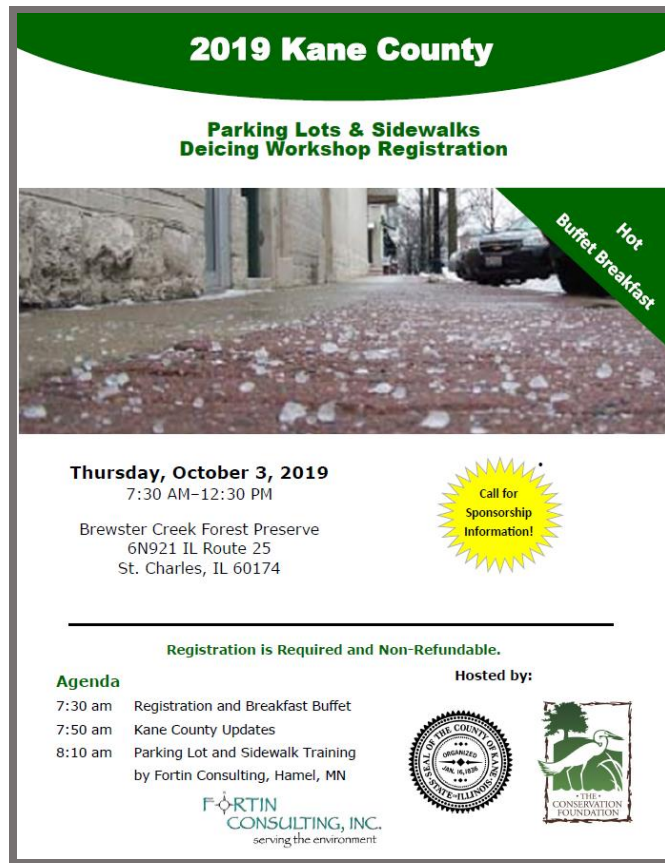
#### 5. BMP F.6—Other Municipal Operations Controls

<b>MEASURABLE GOALS</b>	Kane County will implement Road Salt Application and Storage procedures to minimize salt washoff into the County’s MS4. Train staff on deicing and salt management procedures on an annual basis. Track the number of training events and participants each year.
<b>RESULTS</b>	The Kane County Division of Transportation provides continual training on salt application and storage procedures via staff manuals, calibrates KDOT trucks to

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 washoff into the MS4.

The Kane County Division of Environmental & Water Resources also worked with The Conservation Foundation to host a winter road maintenance training at the Brewster Creek Forest Preserve in St. Charles that was open to all MS4 communities in the region.

- Parking Lots and Sidewalks Deicing Workshop [10/3/19; 36 attendees, including 6 Kane County staff]



*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.

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:

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	2.50	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

An electronic copy of this inventory is available upon request. No new structural BMPs were constructed on Kane County government-owned property during this reporting period.

#### IV. SUMMARY OF ANTICIPATED ACTIVITIES DURING NEXT REPORTING CYCLE

In early 2017, the Kane County Division of Environmental & Water Resources kicked off the process of revising the Stormwater Management Ordinance by re-convening the Stormwater Management Planning Committee. The committee consists of 6 municipal members, 6 County Board representatives, and 3 ex-officio members. Stormwater Management Planning Committee meetings were held on a monthly basis during this reporting period (see B.3—Stakeholder Meeting). The formal review process of the Ordinance was completed in 2019, including review by government agencies and public hearings. The Stormwater Management Ordinance Updates were formally adopted on 6/1/19. The updates address such items as Best Management Practices (BMPs), stormwater detention triggers, increased retention volume, and changes to building protection standards.

During the upcoming permit year, Kane County staff will 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 1, 2019—February 29, 2020:

<b>Project</b>	<b>Contract Value</b>
Paint Pavement Marking	\$632,399.02
Urethane Pavement Marking - Estimated Value	\$372,000.00
Resurfacing	\$6,796,086.75
Cracksealing	\$483,026.35
Pavement Preservation	\$501,668.60
Guardrail Replacement	\$862,488.50
Bliss Road Culvert Improvement	\$800,935.90
Bowes Road Resurfacing - Estimated Value	\$1,000,000.00
Burlington Road at Bolcum Road	\$992,176.08
Burlington Road over Virgil Ditch No. 3	\$1,368,753.70
Fabyan Parkway at Kirk Road	\$9,936,022.74
Fabyan Parkway over Fox River	\$2,927,159.70
Harmony Road over Harmony Creek	\$1,029,613.14
Peck Road at Bricher Road	\$1,268,258.11
Kirk Road Multi-Use Path	\$540,912.26
Kirk Road - IL 56 to Cherry Lane Safety Improvements	\$1,295,728.70
Randall Road at Weld Road/US 20	\$6,244,244.00
Scott/Hughes/Granart Roads Bridge Rehabilitations	\$1,190,134.84
Silver Glen Road over Virgil Ditch No. 2	\$794,422.24
Stage 2 Hughes, Fabyan, Randall & Orchard Various Safety Improvements	\$6,338,790.80
Stage 3 Randall Road HSIP Various Safety Improvements	\$4,681,132.19
Stearns Road Stage 5A at Randall Road	\$4,183,051.94
Silver Glen Road over Otter Creek Bridge Repairs	\$284,305.00
West County Line Road over Union Ditch #3	\$1,563,385.95
Randall Road over Ferson Creek	\$ 254,291.50
Longmeadow Parkway Section B-2	\$27,777,277.27
Longmeadow Parkway Section C-1	\$24,914,664.21
Longmeadow Parkway Section C-2	\$23,531,420.00
Longmeadow Parkway Section C-3	\$5,591,042.57
Longmeadow Parkway Section C-4	<i>Estimated Value</i> \$500,000.00
Longmeadow Parkway Section D	\$9,242,200.00