

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
ANNUAL FACILITY INSPECTION REPORT
YEAR 1 – 2014/2015
NPDES PERMIT FOR STORM WATER DISCHARGES
FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)
Kane County, Illinois
(NPDES Permit No. ILR400259)

I. CHANGES TO BEST MANAGEMENT PRACTICES

There are no changes to the Best Management Practices for the six minimum control measures as submitted in the original NOI for Kane County as described in Section II of this Annual Report, Status of Compliance with Permit Conditions.

II. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS

Kane County began the new five-year permit cycle in 2014 and is confident that the BMPs listed in the 2014 Notice of Intent and summarized below are appropriate choices to meet the requirements of the NPDES Phase II Program to minimize nonpoint source pollution in Kane County, Illinois. Best Management Practices as described in Kane County’s 2014 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: *Green Guide Insert*

MEASURABLE GOALS	Include “Water Wise Corner” insert in the <i>Kane County Recycles Green Guide</i> , which is published each spring and distributed via hard copies and electronic versions throughout the County each year.
MILESTONES	Develop Green Guide insert format and include insert in <i>Green Guide</i> in spring 2014.
RESULTS	During Year 1, the “Water Wise Corner” insert in the <i>Green Guide</i> was distributed countywide via 47,000 print copies, digitally to 1200 e-subscribers, and through 1900 downloads of the document from the Kane County website.

2. BMP A.2—Speaking Engagement: *Speakers Bureau of Kane County Healthy Places Coalition and Green Advocates*

MEASURABLE GOALS	To provide information and resources to homeowners on conservation and best management practices. One speaking engagement per year is anticipated during the five year permit cycle. In addition, outreach through <i>Kane County Connects</i> will help those who live, work and visit Kane County be better stewards of the environment.
MILESTONES	Develop presentations with stormwater BMP information, and make presentations as needed.
RESULTS	During Year 1, Kane County staff delivered 5 presentations: <ul style="list-style-type: none"> • Green infrastructure presentation to Chicago Wilderness on 4/3/14 • Green infrastructure presentation to GreenTown Chicago on 5/22/14 • Green infrastructure presentation to the River Corridor Foundation on 9/17/14 • Green infrastructure presentation to GreenTown Aurora on 2/26/15 • Stormwater management presentation to the Catatoga Subdivision on 2/12/15 <p>Additionally, 3 articles were included in <i>Kane County Connects</i>—on 10/31/14, 12/9/14 and 3/10/15—to educate the community about stormwater BMPs and water conservation.</p>

3. BMP A.3—Public Service Announcement: *PSA at Local Movie Theaters*

MEASURABLE GOALS	Based on funding and cost of public service announcements/number of movie theaters, establish program to provide widespread coverage to diverse audience.
MILESTONES	Develop database of movie theaters in area and establish costs. Identify/develop public service announcements.
RESULTS	During Year 1, the database of local theaters was compiled and a 30-second Public Service Announcement was created. The PSA was posted on Kane County's stormwater education webpage, and also shown at the Elgin Cinema during summer 2014.

4. BMP A.4—Community Event: *Community Well and Septic Seminar*

MEASURABLE GOALS	Provide a yearly well and septic seminar through the Health Department to educate residents on the proper maintenance of wells and septic systems. Continue to distribute brochures for septic maintenance.
MILESTONES	Plan and execute seminar; Distribute brochures on as needed basis.
RESULTS	The seminar was held on 9/11/14 at the Campton Township Community Center. Well and septic educational brochures were also distributed at the Green Fair on the Fox in Batavia on 8/9/14, and are available year-round on the Environmental Health page of the Kane County Health Department's website.

5. BMP A.5—Classroom Education Material: *Library Display Cases*

MEASURABLE GOALS	Establish network of Kane County libraries and develop a display case to promote the newly published Outdoor Water Conservation Manual for NWPAC communities with an emphasis on reduction of nutrients and fertilizers.
MILESTONES	Develop network of library contacts, scheduling information and detail on display cases. Create a dynamic display with "take away" information suitable for a 7 th -8 th grade audience.
RESULTS	During Year 1, the database of local libraries was compiled and display materials were developed. Educational displays were set up at the Batavia Library and the Aurora-West Branch Library during the first year of the permit cycle.

6. BMP A.6 – Other Public Education: *New Homeowner Resource Card*

MEASURABLE GOALS	Provide new homeowners with a resource card for County services including links for recycling, green lawn maintenance, well and septic brochures, etc. Distribute through County building permit and Welcome Home programs.
MILESTONES	Develop resource cards and print.
RESULTS	During Year 1, the resource card was created and 300 copies were printed and distributed via the front desk areas of the Kane County Environmental & Water Resources Division, Development Department, and the two Health Department offices. An additional 100 cards were issued to the Welcome Home program, and 50 cards were issued to the Neighborhood Housing Services office.

B. PUBLIC PARTICIPATION/INVOLVEMENT

1. BMP B.3—Stakeholder Meeting: *Public Meetings – Kane County Stormwater Management Committee*

MEASURABLE GOALS	The Kane County Stormwater Committee meets on an as needed basis at the County Government Center to discuss stormwater management issues, including water quality issues. Meetings are publicized in local newspapers and are open to the public for citizen input.
MILESTONES	Continue to hold regular Stormwater Management Committee Meetings.
RESULTS	Due to a lack of pressing issues, no Stormwater Management Committee meeting were held during Year 1 of this permit cycle.

2. BMP B.5—Volunteer Monitoring: *Stream Monitoring Program*

MEASURABLE GOALS	A total budget of \$52,700 is allocated through the Kane County Riverboat Grant Fund for stream gage monitoring in 2014. In addition, Kane County has been an active participant in the Fox River Study Group (FRSG).
MILESTONES	Continue to support stream gauge monitoring and FRSG.
RESULTS	During Year 1, Kane County provided financial support of \$52,700 to the USGS for stream/rainfall gages, and made arrangements to provide \$500 to the Friends of the Fox River during Year 2 to support volunteer monitoring efforts. Additionally, Environmental & Water Resources Division staff regularly participated in meetings for the Fox River Study Group.

3. BMP B.7—Other Public Involvement: *Stream Clean-up Program*

MEASURABLE GOALS	Beginning in 2003, Kane County supported volunteer stream clean-up events on streams in Kane County by providing financial assistance to provide a means for members of the public to directly connect with their local waterways, remove potential sources of pollution and raise awareness of water quality issues.
MILESTONES	Support the Friends of the Fox River as needed and according to available resources.
RESULTS	Due to limited resources, Kane County did not support stream clean-up efforts during Year 1. However, the County made arrangements to provide financial support of \$500 to the Friends of the Fox River during Year 2 to assist with clean-ups in the Kane County portion of the Fox River Watershed.

C. ILLICIT DISCHARGE DETECTION AND ELIMINATION

1. BMP C.1—Storm Sewer Map Preparation: *Stormwater System Mapping*

MEASURABLE GOALS	Kane County DOT finished mapping the approximately 5,000 structures on 62.4 miles of County maintained roads in 2007, and needs to update the map and add it to the County's GIS system so it is available to Emergency Management personnel.
MILESTONES	Update Stormwater System Map and coordinate with GIS to add storm sewer layer as funds allow.
RESULTS	This task was not addressed during Year 1 due to limited staffing resources,

	but will be addressed during Year 2 of the permit cycle.
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2. BMP C.2—Regulatory Control Program: *Under State/local law, effectively prohibit, through regulatory mechanism, non-stormwater discharges into the County's MS4*

MEASURABLE GOALS	Kane County has regulatory authority to prohibit septic system discharges into the County-owned storm sewers or open channels. If an illegal discharge is suspected, the Health Department inspects the site and may conduct a dye test and/or collect a water sample for analysis. If the discharge is illegal, the County issues the owner a 30 day notice to correct the deficiency. If the illegal discharge is not corrected, the Health Department then turns the case over to the State Attorney to pursue legal action to enforce elimination of the illegal discharge. Non-septic system discharges are not regulated by the County and these types of suspected illegal discharges are addressed by notifying the regional IEPA office and coordinating with their investigation.
MILESTONES	Continue to utilize regulatory authority to prohibit, inspect, and follow up with enforcement for illegal discharges into the County's MS4.
RESULTS	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. Kane County has continued its investigation along the Virgil Ditch in Virgil, Illinois receiving untreated domestic wastewater discharge. Two properties—one multi-residential and one commercial—that were connected to a tile draining their wastewater to the creek have installed septic systems. The Circuit Court system and Assistant State's Attorney, Stephen Brown, were utilized to enforce compliance in these two situations. For the coming year, two more single family residences are permitted to have a septic system installed that are connected to this tile.

3. BMP C.10—Other Illicit Discharge Controls: *Kane County Employee Training Program to Identify Illicit Discharges*

MEASURABLE GOALS	All of the County's Health Inspectors and other County employees are trained yearly on identifying suspected illicit discharges and procedures for eliminating the discharges.
MILESTONES	Health inspectors continue to receive annual training on Illicit Discharge Detection and Elimination.
RESULTS	Kane County Health Department staff that deal with septic issues receive a minimum of three hours of continuing education each year. Austin Schramer and Amy Lantis have been individually trained in identifying, verifying and documenting illicit discharges and their sources. They have also been trained in procedures and policy to follow for investigation and elimination of such discharges from October 2014– March 2015. Also, staff that handle private sewage disposal system inspections attended the LaSalle County Wastewater Workshop Conference on February 11, 2015 and obtained 6.25 hours of continuing education. The attendees of the conference were Amy Lantis, Austin Schramer, Vic Mead, Julie Wiegel and Joe Durczak.

D. CONSTRUCTION SITE RUNOFF CONTROL

1. BMP D.7—Other Construction Site Runoff Controls: *Kane County Stormwater Ordinance*

MEASURABLE GOALS	Kane County adopted a county-wide Stormwater Management Ordinance in 2001, which regulates construction site and post-development stormwater runoff. The County enforces this stormwater program in unincorporated areas of the County, as well as non-waiver communities that do not have the in-house resources to administer and enforce the Ordinance. The Kane County Stormwater Management Ordinance addresses all requirements of the Construction Site Runoff Control Measures.
MILESTONES	Implement and enforce the Kane County Stormwater Ordinance.
RESULTS	Kane County continuously administers the countywide stormwater ordinance in the unincorporated area of Kane County, as well as the non-waiver communities that do not have the in-house resources to administer and enforce the Ordinance. This ordinance addresses all requirements of the Construction Site Runoff Control Measures with the exception of management of construction waste and concrete truck washout. The management of construction waste and concrete truck washout is currently regulated under other County ordinances.

E. POST-CONSTRUCTION RUNOFF CONTROL

1. BMP E.2—Regulatory Control Program: *Kane County Stormwater Ordinance*

MEASURABLE GOALS	Kane County adopted a county-wide Stormwater Management Ordinance in 2001, which regulates construction site and post-development stormwater runoff. The County enforces this stormwater program in unincorporated areas of the County, as well as non-waiver communities that do not have the in-house resources to administer and enforce the Ordinance. The Kane County Stormwater Management Ordinance addresses all requirements of the Post-Construction Runoff Control Measures.
MILESTONES	Implement the Kane County Countywide Stormwater Ordinance.
RESULTS	Kane County continuously administers the county-wide stormwater ordinance in the unincorporated area of Kane County, as well as the non-waiver communities that do not have the in-house resources to administer and enforce the Ordinance. The Kane County Stormwater Management Ordinance addresses all requirements of the Post-Construction Runoff Control Measures.

F. POLLUTION PREVENTION/GOOD HOUSEKEEPING

1. BMP F.1—Employee Training Program: *Workshops and Continuing Education*

MEASURABLE GOALS	In 2007, Kane County began a program to offer training and continuing education opportunities to its employees and Kane County MS4 partners through full-day and part-day seminars and workshops. This annual training offers Kane County the ability to address issues of concern in a timely and applicable manner. Kane County staff attend workshops or seminars offered by Kane County or other local groups or training organizations.
MILESTONES	Schedule training webcasts on topics relevant to Kane County MS4 partners. Invite attendees via e-mail list of MS4 partners. Facilitate webcast viewing and discussion.
RESULTS	During Year 1, the Kane County Division of Environmental & Water Resources hosted 8 training webcasts provided by the Center for Watershed Protection. Those webcasts, along with numerous other local stormwater-related workshops and educational resources, were promoted to Kane County staff

	and local MS4 partners through 12 issues of Kane County's <i>MS4 Corner</i> e-newsletter.
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2. BMP F.2—Inspection and Maintenance Program: Storm Drainage System Cleaning and BMP Inspection on County Property

MEASURABLE GOALS	Best Management Practices constructed on County property have not been inspected for a number of years. Kane County will work towards an inspection and maintenance schedule for BMP's on County property using a combination of County resources and consultant services.
MILESTONES	Develop database of County BMP's on County owned property. Continue annual County program to clean catch basins and storm inlets.
RESULTS	The Kane County Department of Transportation's Operation and Maintenance Program for the storm drainage system involves clearing roadside swales of debris and garbage once a year, and inspecting and cleaning catch basins and storm inlets at KDOT facilities quarterly. A database was not created during Year 1, but will be addressed during Year 2.

3. BMP F.3—Municipal Operations Storm Water Control: Fleet and Building Maintenance – Kane County Division of Transportation

MEASURABLE GOALS	The County recycles all types of used oil (engine, transmission, gear and hydraulic), antifreeze, oil filters, tires, batteries, iron/scrap metal, and cardboard. County vehicles are inspected according to the following schedule: Heavy trucks (snow plows, etc.)—every 2000 miles or 180 days <ul style="list-style-type: none"> • 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
MILESTONES	Continue county program to recycle hazardous materials and perform fleet inspections.
RESULTS	The Kane County Department of Transportation continues to adhere to the established fleet and building maintenance guidelines as described above.

4. BMP F.4—Municipal Operations Waste Disposal: Parking Lot and Street Cleaning

MEASURABLE GOALS	The County will perform inlet/catch basin cleaning for other County properties such as the Government Center, North Campus, Old Court House, and Judicial Center on an as-needed basis. In order to minimize pollutant export from parking lots and streets, the County will perform street and parking lot sweeping operations on County properties.
MILESTONES	Clean facilities as needed.
RESULTS	There was no report of inlet/catch basin cleaning activities during Year 1. The County will re-assess the inlet/catch basin cleaning and reporting procedure during Year 2.

5. BMP F.5—Flood Management/Assess Guidelines: Kane County Hazard Mitigation Program

MEASURABLE	In 2003, Kane County adopted a Hazard Mitigation Plan and coordinated the
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GOALS	formation of the Kane County Hazard Mitigation Committee, comprised of municipal, township and nonprofit representatives. One of the main focuses of the Mitigation Committee's efforts has been on flood hazard reduction. By focusing on flood hazard reduction and working to buyout repetitively flooded properties or elevate structures, the County is working to improve water quality by removing potential pollutants from the floodplain. Kane County has applied to the Community Rating System through NFIP.
MILESTONES	Continue coordination and participation in Hazard Mitigation and CRS Program.
RESULTS	Kane County continues to host two Hazard Mitigation Committee meetings per year. The Natural Hazards Mitigation Plan for Kane County was updated in 2014, but was returned by FEMA for additional revisions and updating of supporting statistics. The final revisions of the plan will be issued to FEMA for review and approval in 2015 and then be submitted to the Kane County Board to be adopted.

6. BMP F.6—Other Municipal Operations Controls: Road Salt Application and Storage

MEASURABLE GOALS	Salt is stored indoors throughout the year to minimize concentrated salt washoff into the MS4. Each year, the Kane County Division of Transportation calibrates the salt dispensing rate of each snow plow truck. Each truck is equipped with a reference table that the driver can use to determine the optimal rate of pounds of salt dispensed per lane mile. Additionally, in house deicer training and snow plow training is conducted annually in which salt rates and dispensing procedures are discussed. Due to the recommendations of the Kane County Division of Transportation Safety Committee, an outside trainer will be hired every three years to conduct comprehensive training. Kane County currently dispenses salt at a rate varying between 300-500 lbs. per lane mile.
MILESTONES	Calibrate trucks and attend training – KDOT.
RESULTS	KDOT conducts internal training on deicing and salt application/storage each year. In addition, KDOT contracted with Vista Training to coordinate snow and ice removal training for all relevant staff in December 2014.

III. RESULTS OF INFORMATION COLLECTED AND ANALYZED

No monitoring data was collected and analyzed during the reporting period.

IV. SUMMARY OF ANTICIPATED ACTIVITIES DURING NEXT REPORTING CYCLE

During Year 2 of the permit cycle, Kane County will address any BMPs that were not addressed during the first year, particularly C.1—Storm Sewer Map Preparation and F.2—Storm Drainage System Cleaning and BMP Inspection—in addition to the listed Year 2 milestones.

V. RELIANCE ON ANOTHER GOVERNMENTAL ENTITY

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

VI. CONSTRUCTION PROJECT LIST

The following Kane County road construction projects were active during 2014:

SUMMARY OF CAPITAL IMPROVEMENT CONTRACTS

Active in 2014

Year	FED #	Contract Value	Project	Section Number
2013		\$14,411,649.00	Anderson Road	01-00274-00-BR
		\$544,435.93	Burlington Virgil 2	08-00380-00-BR
	63818	\$1,107,607.34	Fabyan Nagel	10-00404-00-CH
		\$556,997.61	529	11-00392-01-TD
2014	63874	\$1,486,734.10	French Rd over Burl Creek	08-00386-0-BR
		\$4,631,358.71	Plank Realignment	10-00095-00-FP
		\$1,230,846.80	Thatcher over Virgil 1	11-00091-00-BR
		\$1,572,800.00	Tanner over Lake Run	11-00163-00-BR
	61A36	\$1,670,457.43	Stearns Rd I/C	11-00214-00-TI
		\$2,242,751.30	LaFox over Mill Creek	11-00417-00-BR
		\$3,999,385.30	Randall Rd- Tyler, Metra, UPRR	13-00176-00-BR
		\$665,317.92	Pavement Preservation	14-00000-02-GM
		\$341,479.40	Crack Sealing	14-00000-03-GM
		\$573,739.10	Urethane Marking	14-00000-04-GM
		\$497,193.67	Water borne marking	14-00000-05-GM
		\$402,571.05	Burlington over Virgil 1 and 3	14-00413-01-BR
		\$6,845,017.70	Resurfacing 1	14-00435-00-RS
		\$92,691.77	Resurfacing 2	14-00435-01-RS
		\$886,439.00	CIP	14-00438-00-FP
		\$174,102.88	2014 Guardrail	14-00443-00-GR
		\$123,000.44	Stearns Rd Corr- Natural Area Maint	14-00214-03-SM