



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, 2015 To March, 2016

Permit No. ILR40 0283

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

Name: City of Aurora Mailing Address 1: 44 East Downer Place
Mailing Address 2: _____ County: Kane
City: Aurora State: IL Zip: 60505-3302 Telephone: _____
Contact Person: Mark Phipps Email Address: mphipps@aurora-il.org
(Person responsible for Annual Report)

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

Kane Co, Aurora Twp, Sugar Grove Twp, Batavia Twp DuPage Co, Naperville Twp, Winfield Twp
Will Co, Wheatland Twp Kendall Co, Oswego Twp

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 checked="" type="checkbox"/> | 5. Post-Construction Runoff Control | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input checked="" type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input checked="" 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))

Owner Signature:

Mark Phipps

Printed Name:

6/11/2016

Date:

Professional Engineer

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

**ANNUAL FACILITY INSPECTION REPORT
FOR DISCHARGES FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS
REPORTING PERIOD: MARCH 1, 2015 – FEBRUARY 29, 2016
CITY OF AURORA, ILLINOIS
(NPDES Permit No. ILR400283)**

I. CHANGES TO BEST MANAGEMENT PRACTICES

During this reporting period, the following Best Management Practices have been added to the City's stormwater management program compared to those listed in the City's Notice of Intent.

- BMP B.6 – Program Involvement (Rain Barrel Program)
- BMP C.2 – Regulatory Control Program (Illicit Discharge Ordinance)
- BMP F.3 – Municipal Operations Stormwater Control (Maintenance of the Storm Sewer System, Streets, Parks, and the City's Fleet)

II. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS

The City has committed to specific stormwater Best Management Practices (BMPs) in order to meet the requirements of General NPDES Permit No. ILR40. The following is a status report for each BMP describing the activities undertaken during this reporting period.

- **PUBLIC EDUCATION AND OUTREACH**

- **BMP A.2 – Speaking Engagement**

MEASURABLE GOAL	The City will conduct two speaking engagements per year to present information on stormwater management.
STATUS	City staff made a presentation in May 2015 to the Japanese Conservation Society and in August 2015 to the Illinois Math and Science Academy.

- **BMP A.3 – Public Service Announcement**

MEASURABLE GOAL	Publish one article per year on stormwater management in the Aurora Borealis, which is the City's official community newsletter. It is produced 4 times per year and is made available on the City's website and in print form.
STATUS	The 2nd issue in 2015 included an article promoting the City's rain barrel program, plus an article about the GreenTown forum and several of the City's stormwater BMPs. The 4th issue in 2015 included an article noting the status of the Kensington Place and Russell Avenue Rain Gardens.

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

MEASURABLE GOAL	Develop and maintain a web page on the City's website that addresses stormwater management and water pollution control.
STATUS	The City's website has a section titled <i>Green Initiatives</i> with information about sustainability, green infrastructure, and stormwater management. It includes web pages titled <i>Aurora's Green History, How Residents Can Be Green, Infrastructure, Rain Barrel Program, and Rain Gardens</i> . The City's website also includes links to monthly CSO Discharge Monitoring Reports.

- **PUBLIC INVOLVEMENT/PARTICIPATION**

- **BMP B.4 – Public Hearing**

MEASURABLE GOAL	Conduct one public meeting per year to allow the public to provide input on the City's MS4 program.
STATUS	The City's MS4 program was not presented at a public meeting during this program year.

- **BMP B.6 – Program Involvement**

MEASURABLE GOAL	Annually promote the installation of rain barrels on private property.
STATUS	The 2nd issue of the Aurora Borealis in 2015 included an article promoting the City's rain barrel program. The article described the benefits of rain barrels and notified residents that they could obtain rain barrels at a discounted price through The Conservation Foundation.

- **BMP B.7 – Other Public Involvement**

MEASURABLE GOAL	Annually provide financial and in-kind support to the Fox River Study Group, which is a diverse group of stakeholders interested in improving and protecting the Fox River.
STATUS	The City contributed \$99,000 to the Fox River Study Group in 2015 and a representative of the City regularly attended the group's monthly meetings.

- **ILLCIT DISCHARGE DETECTION AND ELIMINATION**

- **BMP C.1 – Sewer Map Preparation**

MEASURABLE GOAL	Annually maintain and improve the City's sewer atlas.
STATUS	The City has converted its CAD-based atlas to a GIS-based atlas. The atlas is continually updated with data from new public and private construction projects, as well as with maintenance and inspection data.

- **BMP C.2 – Regulatory Control Program**

MEASURABLE GOAL	Prohibit non-stormwater discharges to the storm sewer system.
STATUS	Sections 48-131 through 48-142 of the Municipal Code effectively prohibit non-stormwater discharges into the storm sewer system. These sections provide the regulatory framework for the City's illicit discharge detection and elimination procedures. They also include penalties for violations.

- **BMP C.4 – Illicit Discharge Tracing Procedures**

MEASURABLE GOAL	Develop a GIS-based storm sewer system map to expedite tracing illicit discharges to their source.
STATUS	The City's GIS-based storm sewer system map includes a feature designed to help determine the source of a suspicious discharge. This feature allows a user to identify the point in the sewer system at which a suspicious discharge has been identified. Then the map automatically traces paths through the system to potential sources. To assist in emergency spill response, each node in the map is named using a convention that incorporates the name of the outfall to which it discharges.

- **BMP C.7 – Visual Dry Weather Screening**

MEASURABLE GOAL	Inspect storm sewer outfalls once every five years to determine whether illicit discharges have taken place.
STATUS	Due to untimely wet weather and other demands on City resources, the City was not able to inspect 20% of its outfalls during the reporting period.

- **CONSTRUCTION SITE RUNOFF CONTROL**

- **BMP D.1 – Regulatory Control Program**

MEASURABLE GOAL	Require soil erosion and sediment controls to prevent stormwater pollution resulting from construction site runoff.
STATUS	The City has adopted a more restrictive version of the Kane County Stormwater Ordinance. This Ordinance requires soil erosion and sediment controls for regulated development and it includes sanctions the City can use to ensure compliance. The City reviews proposed site plans prior to issuing permits for development and re-development. Ongoing projects are inspected regularly and in response to complaints received from the public. Insufficient erosion control measures are addressed promptly.

- **POST-CONSTRUCTION RUNOFF CONTROL**

- **BMP E.2 – Regulatory Control Program**

MEASURABLE GOAL	Require new development and re-development to minimize stormwater pollution after construction has been completed.
STATUS	The City requires long-term operation and maintenance plans for stormwater infrastructure in accordance with the Kane County Stormwater Ordinance. The City has the authority to ensure maintenance of privately owned stormwater infrastructure when the infrastructure has not been properly maintained by the owner. The City reviews the design of stormwater infrastructure prior to issuing permits for development and re-development. The City also inspects new development and re-development sites during and after construction.

- **POLLUTION PREVENTION/GOOD HOUSEKEEPING**

- **BMP F.1 – Employee Training Program**

MEASURABLE GOAL	Ensure that all Professional Engineers obtain the required number of annual Professional Development Hours per state statute.
STATUS	Each of the City's Professional Engineers received the continuing education necessary to maintain licensure. This continuing education included training on stormwater management.

• **BMP F.3 – Municipal Operations Stormwater Control**

MEASURABLE GOAL	Implement effective pollution prevention measures to minimize the discharge of pollutants from municipal operations.
STATUS	<p>The City has many operational policies designed to prevent the stormwater pollution typically associated with municipal operations.</p> <ul style="list-style-type: none"> - Catch basins are cleaned using vac-jet trucks. - Streets throughout the City are swept on a regular basis to minimize pollutant concentrations in stormwater runoff from the public right-of-way. - Road salt is stored in covered storage buildings. The facilities have impervious surfaces to prevent pollutants from leaching into groundwater. Surface runoff immediately adjacent to the facilities is drained to the sanitary sewer system and ultimately to the Fox Metro Water Reclamation District for treatment. - Road salt applicators are calibrated throughout the winter season to minimize the application of excess salt. - Grass clippings are mulched at parks to reduce the need for fertilization. - Buffer zones consisting of naturalized plantings are maintained around ponds and waterways whenever possible. - Soil testing is performed on a regular basis to avoid over-fertilizing grassed areas. - Pesticides are applied only by professionally trained and licensed applicators. Integrated pest management techniques are utilized to minimize the need for inorganic pesticides. - Vehicle fluids are collected by equipment technicians to be recycled by a licensed vendor. - All passenger vehicles are washed at a commercial car wash that recycles the wash water. Trucks and equipment are washed in an area that drains to a silt trap. The liquid from this silt trap is discharged to the sanitary sewer system and the solids are transported to a facility permitted to accept such waste.

III. RESULTS OF INFORMATION COLLECTED AND ANALYZED

Extensive water quality data has been collected on behalf of the Fox River Study Group (FRSG) by the Illinois State Water Survey, the Fox Metro Water Reclamation District, and the Fox River Water Reclamation District. This data was used to calibrate a complex water quality model of the Fox River and some of its larger tributary streams. Data and modeling reports generated by the FRSG can be found at <http://ilrdss.sws.uiuc.edu/fox/>.

IV. SUMMARY OF STORMWATER ACTIVITIES PLANNED FOR THE NEXT REPORTING PERIOD

The City will make changes to its MS4 program during the next reporting period in order to meet the requirements of the new General NPDES Permit No. ILR40. The stormwater BMPs planned for the next reporting period are listed below and are described in more detail in this year's Notice of Intent.

PUBLIC EDUCATION AND OUTREACH

- Publish one article in the Aurora Borealis, distribute one flyer through an Aurora school, and distribute one flyer to HOAs.
- Provide links to educational resources on the City's web site.
- Conduct a public speaking engagement to discuss stormwater management and green infrastructure.

PUBLIC INVOLVEMENT/PARTICIPATION

- Participate in the FRSG by attending monthly meetings, tracking annual phosphorus load reduction, providing annual water quality monitoring data, and providing annual financial support.
- Present the City's stormwater management program at a publicly noticed City Council or Committee meeting.
- Inform residents of a telephone number for reporting stormwater related issues.
- Coordinate events with Aurora schools to educate children about water quality and collect water quality data. Priority will be placed on schools located within environmental justice areas.

ILLICIT DISCHARGE DETECTION AND ELIMINATION

- Maintain and improve the City's sewer atlas.
- Document all reports of suspicious discharges, along with investigative measures taken and any enforcement actions.
- Develop a Prioritization Plan for dry weather outfall screening.
- Perform dry weather screening of City outfalls according to the Prioritization Plan.
- Trace and remove all illicit discharges.
- Revise the City's standard specifications for new inlets and catch basins so grates cast with "Dump No Waste, Drains to River" will be installed for road maintenance projects and new development.
- Maintain and service pet waste receptacles weekly.

CONSTRUCTION SITE RUNOFF CONTROL

- Review site plans for effective soil erosion and sediment controls, controls for non-stormwater discharges from the construction site, and compliance with General NPDES Permit No. ILR10.
- Conduct site inspections throughout construction for all permitted development sites.

- Maintain files for all permitted development projects, as well as for Ordinance violations and enforcement actions taken.
- Allow public comment at publicly noticed City meetings.

POST-CONSTRUCTION RUNOFF CONTROL

- Review site plans for appropriate structural and non-structural BMPs, including green infrastructure, as well as compliance with General NPDES Permit No. ILR10.
- Require Long-Term O&M Plans for stormwater management facilities in accordance with the Kane County Stormwater Ordinance.
- Conduct site inspections during construction and at the completion of construction to ensure consistency with the approved construction plans.
- Maintain files for all permitted development projects, as well as for Ordinance violations and enforcement actions taken.

POLLUTION PREVENTION/GOOD HOUSEKEEPING

- Provide staff training and a written exam on stormwater pollution prevention for municipal operations, illicit discharge detection and elimination, and maintenance of green infrastructure. Verify the qualifications of contractors hired to maintain, repair, or replace BMPs.
- Inspect City facilities and interview City staff responsible for inspection and maintenance of the storm sewer system. Prepare a Stormwater Pollution Prevention Plan for the City.

V. RELIANCE ON ANOTHER GOVERNMENT ENTITY

The City is not relying on any other government entity to satisfy the requirements of General NPDES Permit No. ILR40; however, the City benefits from a number of Kane County's stormwater activities, including a number of Public Education and Outreach BMPs. Please see Kane County's Annual Facility Inspection Report for additional information about these activities.

VI. LIST OF CONSTRUCTION PROJECTS

- Galena and Downer Place Sewer Separation
- Green Infrastructure for CSO Control – Kensington and Russell Raingardens
- 2015 Sanitary Sewer Investigation and Rehabilitation
- Redwood Watermain Replacement
- Lake Street Sewer Separation
- Sperry Court Utility Improvements
- 4th Street Sewer Separation
- Mitchell Rd Drainage Improvements
- Lafayette – Sherman Watermain Replacement
- Michigan Ave Watermain Replacement
- Philipps Park Watermain Replacement
- Prairie St Watermain Replacement
- 514 Pierce St Sanitary Sewer Repair
- Calhoun St – Galena to New York Sanitary Sewer Repair
- Gladstone/Kensington Sewer Repair
- North Park/Alschuler/Lafayette Sewer Repair
- View St Sewer Repair
- Lake and River Two way Conversion
- Galena and New York Two Way Conversion
- Arterial and Collector Pavement Resurfacing
- Neighborhood Street Improvements
- Ward Pavement Resurfacing Projects
- 2015 Sidewalk Replacement Project
- Ohio Street Bridge Replacement