



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, 2016 To March, 2017

Permit No. ILR40 0173

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

Name: City of Chicago Mailing Address 1: Jardine Water Purification Plant
Mailing Address 2: 1000 East Ohio Street County: Cook
City: Chicago State: IL Zip: 60611 Telephone: 312-744-7001
Contact Person: Brendan Schreiber Email Address: Brendan.Schreiber@cityofchicago.org
(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 Chicago

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))

Owner Signature:

Barrett B. Murphy

Printed Name:

5/23/17

Date:

Commissioner

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

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.

**CITY OF CHICAGO
ANNUAL FACILITY INSPECTION REPORT**

**GENERAL PERMIT FOR DISCHARGES FROM
SMALL MUNICIPAL SEPARATE STORM SEWER
SYSTEMS**

**Year 14
March 2016 – March 2017**

Submitted to:
Illinois Environmental Protection Agency

By:
Chicago Department of Water Management

May 2017

A. Changes to Best Management Practices

The City of Chicago is continuing its efforts to effectively manage stormwater runoff and protect the quality of area waters. This includes citywide implementation of stormwater and pollution control BMPs to reduce the negative impacts of stormwater runoff, illicit discharge investigations and enforcement to ensure only stormwater is conveyed, and public education and involvement efforts intended to increase the awareness of stormwater and water quality management issues.

B. Status of Compliance with Permit Conditions

See the first attached table for progress on each of the established BMPs for the six minimum controls.

Additionally, in Year 15, DWM commits to developing and initiating a monitoring and assessment program to evaluate the effectiveness of the established BMPs and the overall stormwater management program. DWM also commits to evaluating the stormwater management program in relation to the approved TMDL for the Lake Michigan beaches.

C. Information and Data Collection Results

No monitoring was completed in Year 14.

D. Summary of Year 15 Stormwater Activities

See the first attached table, referenced in Section B, for a listing of the stormwater activities planned for Year 15 per each established BMP.

E. Notice of Reliance upon Other Governmental Entities

The City of Chicago does not rely on other government entities.

F. Construction Projects During Year 14

See the second attached table for a documentation of the construction projects located in MS4 areas for Year 14.

**Sections B and D
BMP Progress and Goals**

Public Education and Outreach

BMP No.	BMP Category	Brief Description of BMP	Year 14 Milestone Progress	Year 15 Milestone Goals
A.2	Speaking Engagement	Develop, organize, and run technical seminars for engineers, architects, and the public on Stormwater Ordinance requirements.	Held self-certification class on 5/11/16 and seminar at the ASCE Permitting Seminar on 11/10/16.	Develop and present at least 1 seminar.
A.3	Public Service Announcement	Promote water conservation efforts through transit advertising and conservation kits.	Ran transit advertisements in bus shelters through the MeterSave program that provides information about water conservation efforts. Distributed outdoor conservation kits as part of the program that include a hose timer, rain gauge, water restricting hose nozzle, and moisture sensor.	Run transit advertisements and distribute outdoor water conservations kits. Produce additional advertisements to ensure CDOT has backup supply.
A.5	Classroom Education Material	Provide stormwater management education materials to schools. As part of the Space to Grow program that was initiated in 2014, provide financial support for schools where green infrastructure has been or will be installed to help provide educational resources for the students.	Supported the next 3 schools and the existing 6 schools that had green infrastructure installed as part of Space to Grow.	Support existing and the 6 planned future schools involved with the Space to Grow program.
A.6	Other Public Education	Provide educational resources online about stormwater management.	Provided information and brochures about stormwater management on DWM's website.	Create a MS4 specific page on DWM's website. Provide information and brochures on DWM's website. Upload new documents if become available.

Public Involvement and Participation

BMP No.	BMP Category	Brief Description of BMP	Year 14 Milestone Progress	Year 15 Milestone Goals
B.3	Stakeholder Meeting	Attend public events to inform the public about the stormwater management program.	Attended 56 public events including 26 aldermanic meetings, 11 construction projects/specific topics meetings held for a community, and 19 residential fairs.	Attend 45 public meetings.
B.6	Program Involvement	Provide stormwater management education materials, tools, and support as part of community workshops. As part of the Space to Grow program that was initiated in 2014, provide financial support for schools where green infrastructure has been or will be installed to help provide educational information and resource support for community workshops that promote rain barrels and rain gardens.	Supported workshops for the next 3 schools and the existing 6 schools that had green infrastructure installed as part of Space to Grow.	Support existing and the 6 planned future schools involved with the Space to Grow program.
B.7	Other Public Involvement	Work with communities to promote stormwater management BMP's through neighborhood partnerships.	Formed 5 Basement Flooding Partnerships. As part of the partnerships, provided resources and information for communities that have repeated instances of basement flooding from heavy rain storms.	Work with residents who reach out about Basement Flooding Partnerships.

Illicit Discharge Detection and Elimination

BMP No.	BMP Category	Brief Description of BMP	Year 14 Milestone Progress	Year 15 Milestone Goals
C.1	Sewer Map Preparation	Accurately represent the MS4 sewer system in GIS.	Maintained a GIS shapefile of MS4 outfalls and added new ones if they came online.	Perform desktop analysis to compare the GIS mapping of outfalls and their corresponding upstream pipes with the atlas page mapping. Maintain GIS shapefile and add new outfalls to file when they are installed.
C.2	Regulatory Control Program	Investigate and enforce regulations that prohibit illegal dumping and illicit discharges.	Issued 21 citations for illegal dumping or illicit discharges.	Issue citations for illegal dumping and illicit discharges.
C.6	Program Evaluation and Assessment	Institute an inspection frequency to evaluate the condition of all MS4 outfalls.	No work was completed for this BMP in Year 14.	Inspect 25% of the MS4 outfalls.
C.7	Visual Dry Weather Screening	Institute an inspection frequency to ensure there are no dry weather flows.	No work was completed for this BMP in Year 14.	Inspect 25% of the MS4 outfalls.
C.10	Other Illicit Discharge Controls	Develop an MS4 outfall inspection database and create a centralized location for MS4 information from all departments.	No work was completed for this BMP in Year 14.	Create database using the first year of inspection information.

Construction Site Runoff Control

BMP No.	BMP Category	Brief Description of BMP	Year 14 Milestone Progress	Year 15 Milestone Goals
D.1	Regulatory Control Program	Ensure all regulated construction projects (over 15,000 square feet of land area or 7,500 square feet of paved area) are in compliance with	Reviewed 216 projects for Stormwater Ordinance compliance.	Review regulated construction projects.

		the Stormwater Ordinance. Issue permits for projects that are in compliance with Municipal Code Chapter 11-18.		
D.1	Regulatory Control Program	Ensure all projects at O'Hare obtain coverage under General Permit ILR10.	Obtained ILR10 coverage for 7 projects as seen in the Section F table.	Obtain ILR10 coverage for projects on O'Hare property.
D.2	Erosion and Sediment Control BMPs	Ensure correct erosion and sediment control BMP's are being regulated through review of stormwater management documents.	Reviewed and updated the Regulations for Sewer Construction and Stormwater Management, and the Stormwater Management Ordinance Manual.	Review and update stormwater management documents annually.
D.2	Erosion and Sediment Control BMPs	Ensure reviewed and finalized Sediment and Erosion plans are followed during construction for regulated developments.	Required permittees to sign soil erosion and sediment control affidavit.	Require permittees to sign affidavit.
D.2	Erosion and Sediment Control BMPs	Prevent spreading of sediment and debris from construction sites.	Issued 90 citations for construction site cleanliness.	Issue citations for violations of construction site cleanliness guidelines.
D.3	Other Waste Control Program	Encourage planned developments to exceed sustainable development guidelines. Require planned developments that are applying for additional benefits like TIF assistance or city land write-downs, to provide a holistic approach to sustainable development that exceeds minimum requirements.	Developed Chicago Sustainable Development Policy and instituted it January 2017.	Enforce planned developments applying for the specific programs to exceed sustainable development guidelines to receive benefits.
D.4	Site Plan Review Procedures	Review site plans for Stormwater Ordinance compliance. Ensure site plans that require a stormwater management review get reviewed and approved before construction begins.	Reviewed applicable site plans for Stormwater Ordinance compliance.	Review regulated construction site plans.

D.6	Site Inspection / Enforcement Procedures	For projects at O'Hare, complete inspections on a weekly basis and following precipitation events greater than .5" for regulated construction.	Completed inspections for regulated projects at O'Hare.	Complete inspections weekly and after rain events.
D.7	Other Construction Site Runoff Controls	Prevent unnecessary debris from entering the system through catch basins during construction. When identified, require contractors to install debris covers on catch basins adjacent to construction sites.	Required contractors to cover catch basins adjacent to construction sites.	Require contractors to cover catch basins adjacent to construction sites.

Post-Construction Stormwater Management

BMP No.	BMP Category	Brief Description of BMP	Year 14 Milestone Progress	Year 15 Milestone Goals
E.1	Community Control Strategy	Collect and retain stormwater through the installation of green infrastructure on public property. Install green infrastructure as part of various projects including road reconstruction work, streetscape and traffic calming projects, schoolyard reconstruction, parking lot transformations, and sewer and water replacement projects.	Completed 3 schoolyard reconstruction projects, finished 1 parking lot transformation, reconstructed 2 road projects with porous asphalt, and completed 3 streetscape projects.	Install green infrastructure as part of public projects.
E.2	Regulatory Control Program	Ensure correct post-construction runoff controls are being properly regulated through review of stormwater management documents.	Reviewed and updated the Regulations for Sewer Construction and Stormwater Management, and the Stormwater Management Ordinance Manual.	Review and update stormwater management documents annually.
E.3	Long Term O&M Procedures	Enforce development and implementation of O&M plans for regulated projects. Verify developments have an approved	Reviewed applicable O&M plans for Stormwater Ordinance compliance.	Review O&M plans.

		O&M plan in place prior to construction.		
E.4	Pre-Construction Review of BMP Designs	Review site plans for BMP design compliance with Stormwater Ordinance.	Reviewed applicable site plans for Stormwater Ordinance compliance.	Review regulated construction site plans and their corresponding BMP designs.
E.6	Post-Construction Inspections	Ensure that post-construction runoff controls on all regulated construction projects are in compliance. Perform post-construction final inspection by licensed professional engineer on regulated projects to confirm that the site is in compliance with the Stormwater Ordinance, plans, approvals, and permit conditions. Continue inspections for detention basins until the permanent soil stabilization is established.	Inspected applicable constructed regulated developments for Stormwater Ordinance compliance.	Inspect constructed projects for compliance for post-construction runoff controls.

Pollution Prevention and Good Housekeeping

BMP No.	BMP Category	Brief Description of BMP	Year 14 Milestone Progress	Year 15 Milestone Goals
F.1	Employee Training Program	Educate employees about stormwater management and pollution prevention BMPs. For the various departments in the City of Chicago, provide specific trainings and seminars that are applicable to the department and the employee's role.	For DWM, trained mason inspectors on stormwater management regulations including office trainings on 6/9/16 and 1/24/17, and field trainings on 4/6/16, 5/18/16, and 6/29/16. For CDA, trained select airport badge holders on spill prevention and spill control procedures (approximately 5,000 people).	Educate employees about stormwater management and pollution prevention BMPs.

			<p>For CDOT, organized a lunch and learn on “Incorporating Green Infrastructure” on 1/10/17.</p> <p>For DSS, trained operators on salt application BMPs to prevent excess salt usage. Worked with machinery manufacturer to ensure right controls are being used.</p> <p>For 2FM, completed trainings on the Sustainable Operations Plan for the 12 new hires</p>	
F.2	Inspection and Maintenance Program	Maintain and rehabilitate the sewer system through cleaning, lining and replacement.	Cleaned 27,754 catch basins. Lined 61.0 miles of sewers and 14,438 structures. Replaced 25.6 miles of sewers.	Clean 25,000 catch basins. Line 40 miles of sewers and 5,000 structures. Replace 20 miles of sewers.
F.3	Municipal Operations Stormwater Control	Prevent unnecessary debris from entering the system through catch basins. For catch basins that are part of CIP projects or are rehabbed/replaced, install new catch basin lids with small slots (ADA lids) to prevent debris from entering system.	Installed ADA lids for catch basins that were addressed as part of CIP projects or rehabilitation work.	Install ADA lids.
F.4	Municipal Operations Waste Disposal	Institute a robust street sweeping protocol to prevent debris before entering the MS4 system. Deploy a street sweeper each day for every ward (50 wards) during sweeping season (April through November).	Swept 231,029 miles of streets and 3,855 alleys. Collected 138,311 cubic yards of debris	Sweep 200,000 miles of streets and 2,000 alleys.
F.4	Municipal Operations Waste Disposal	Utilize a trash collecting skimmer boat along the Riverwalk during the warmer months. The Riverwalk has significant pedestrian traffic and allows direct access to the water,	Deployed a skimmer boat 5 days a week, weather permitting, along the Riverwalk from March through November 2016.	Deploy skimmer boat during warm weather months.

		which increases the likelihood of pollution and thus the need for additional attention.		
F.4	Municipal Operations Waste Disposal	On O'Hare property, remove and dispose of excess waste from pavement before entering the MS4 system. When needed, use a waste collection contractor to collect municipal operations waste and take off-site to a municipal landfill. Collect litter from airfield pavement.	Collected waste and litter from airport grounds as needed.	Collect waste and litter from airport grounds.
F.5	Floodplain Management / Assess Guidelines	Ensure proper floodplain controls are performed. Perform floodplain reviews for regulated projects within and adjacent to the mapped floodplain.	Reviewed applicable regulated projects within floodplains.	Review regulated projects within floodplains.
F.6	Other Municipal Operations Controls	Follow specific department policies that involve pollution prevention.	<p>For DSS, controlled excess salt runoff through salt storage and application BMPs.</p> <p>For 2FM, followed specific BMPs for fleets and facilities.</p> <p>For CDA, continued to review pollution prevention plans to ensure they are current.</p> <p>For CDOT, continued enforcement of environmental terms and conditions. For projects permitted through Army Corps of Engineers and IEPA, followed applicable water quality and pollution prevention measures.</p>	Follow department specific processes.

Section F
Year 14 Construction Projects

Project Name	NPDES ILR10 Permit #	NOI	NOC	NOT
Rotating Beacon Tower Relocation*	ILR10W377	2/13/2016	3/15/2016	1/24/2017
Runway 9C-27C East Package	ILR10W575	3/16/2016	4/15/2016	TBD
Central Deicing Facility - Mass Grading	ILR10X699	10/18/2016	11/18/2016	TBD
Taxiways Z & J and Tank Farm Road	ILR10X738	10/21/2016	12/2/2016	TBD
Fuel System Improvement Program	ILR10X889	12/30/2016	1/30/2017	TBD
Runway 9C-27C Bid Package 1	ILR10X890	12/30/2016	1/30/2017	TBD
LLWAS 1 Relocation*	ILR10X903	1/6/2017	2/9/2017	TBD

*Site construction activity disturbs less than one acre, but is part of a larger common plan of development.