



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, 2018 To March, 2019

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:

Alfonzo Conner

Printed Name:

5/28/19
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 16
March 2018 – March 2019**

Submitted to:
Illinois Environmental Protection Agency

By:
City of Chicago

May 2019

A. Changes to Best Management Practices

The City of Chicago (City) continues its efforts to effectively manage stormwater runoff and protect the quality of area waters. This includes citywide implementation and modification of stormwater and pollution control Best Management Practices (BMPs) to reduce the negative impacts of stormwater runoff; illicit discharge investigations and enforcement to ensure only stormwater is conveyed; and public education and participation efforts intended to increase the awareness of stormwater and water quality management issues.

B. Status of Compliance with Permit Conditions

See Table 1 on Page 3 for progress on each of the established City BMPs for the six minimum controls.

Additionally, the City is continuing to examine the existing stormwater management program in regards to the approved Total Maximum Daily Loads (TMDLs) for Lake Michigan Beaches and Higgins Creek to see if additional efforts are needed.

C. Information and Data Collection Results

In Year 16, the Department of Water Management (DWM) conducted visual observations of outfalls and their adjacent waterbodies for an additional 42 MS4 locations, while documenting color, odor, clarity, solids, foam, oil sheen, and other indicators of stormwater pollution in the waterbody.

Further evaluation of stormwater quality and impacts were not completed in Year 16 due to budget constraints.

D. Summary of Year 16 Stormwater Activities

See Table 1, referenced in Section B, for a listing of the stormwater activities planned for Year 16 per each established City BMP.

E. Notice of Reliance upon Other Governmental Entities

The City of Chicago does not currently rely on other government entities for the City's MS4 program.

F. Construction Projects During Year 16

See Table 2 on Pages 12-14 for a documentation of the construction projects located in MS4 areas for Year 16.

Table 1
Sections B and D
BMP Progress and Goals

Public Education and Outreach

BMP No.	BMP Category	Brief Description of BMP	Year 16 Measurable Goal Progress	Year 17 Measurable Goals
A.2	Speaking Engagement	Develop, organize, and run technical seminars for engineers, architects, and the public on Stormwater Ordinance requirements.	Completed 2 presentations to the public. Presented seminar on Chicago's Stormwater Ordinance on 4/24/2018. Presented lessons learned from green infrastructure in Chicago on 11/7/2018.	Develop and present at least 1 seminar.
A.3	Public Service Announcement	Disseminate information to Aldermen to educate residents on stormwater management. Promote water conservation efforts through transit advertising and conservation kits.	Provided Aldermen with a statement to share with constituents, via a newsletter or other format, regarding stormwater management and recommendations to decrease neighborhood flooding. Ran MeterSave transit advertisements throughout the permit year. Posted water conservation and flood prevention tips to DWM's Facebook page.	Distribute educational information to Aldermen for dissemination. Continue running transit advertisements.
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 5 new schools that had green infrastructure installed as part of Space to Grow and continued to work with the existing schools.	Plan to support additional schools that will have green infrastructure installed as part of Space to Grow and continue to work with the existing schools.
A.6	Other Public Education	Provide educational resources online about stormwater management.	Updated website to include the Year 15 Annual Report. Provided information and brochures about stormwater management in DWM's "Conservation" section.	Continually update website with any new or revised information including the Year 16 Annual Report.

Public Involvement and Participation

BMP No.	BMP Category	Brief Description of BMP	Year 16 Measurable Goal Progress	Year 17 Measurable Goals
B.3	Stakeholder Meeting	Attend public events to inform the public about the stormwater management program.	Attended various public meetings to and educated the public about stormwater management.	Attend public meetings and educate the public about stormwater management.
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 5 new schools that had green infrastructure installed as part of Space to Grow and continued to work with the existing schools.	Plan to support additional schools that will have green infrastructure installed as part of Space to Grow and continue to work with the existing schools.
B.7	Other Public Involvement	Work with residents to promote stormwater management BMP's on a community-wide level through neighborhood programs.	Coordinated reports of basement flooding issues from concerned residents via the Citywide 311 system.	Coordinate reports of basement flooding issues from concerned residents via the Citywide 311 system. Focus on promoting stormwater management BMPs with identified communities.

Illicit Discharge Detection and Elimination

BMP No.	BMP Category	Brief Description of BMP	Year 16 Measurable Goal Progress	Year 17 Measurable Goals
C.1	Sewer Map Preparation	Accurately represent the MS4 sewer system in GIS.	Maintained GIS outfall feature class, and added new outfalls per recently supplied record information. Total outfall count is now 176. Performed desktop analysis of the GIS mapping of outfalls and connecting sewers with the Atlas Pages.	Maintain GIS outfall feature class, and add new outfalls when additional information becomes available. Update GIS to reflect the estimated locations, connectivity, and attributes of the MS4 outfalls and their corresponding upstream pipes.
C.2	Regulatory Control Program	Investigate and enforce regulations that prohibit illegal dumping and illicit discharges.	Issued citations for illegal dumping or illicit discharges, and brought 22 cases to hearings.	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.	Inspected 42 of the 176 currently mapped MS4s.	Perform inspections for next 25% of outfalls.
C.7	Visual Dry Weather Screening	Institute an inspection frequency to ensure there are no dry weather flows.	Inspected 42 of the 176 currently mapped MS4s.	Perform inspections for next 25% of outfalls.
C.9	Public Notification	Identify catch basins upstream of MS4 outfalls as stormwater only.	N/A – goal for Year 17	Install “No Dumping” lids for storm sewer catch basins that are rehabilitated or installed in capital projects.
C.10	Other Illicit Discharge Controls	Develop an MS4 outfall inspection database and create a centralized location for MS4 information from all departments.	Continued to utilize MS4 outfall inspection database using inspection data collected this year.	Continue to add additional inspection information to centralized outfall database.

Construction Site Runoff Control

BMP No.	BMP Category	Brief Description of BMP	Year 16 Measurable Goal Progress	Year 17 Measurable 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 the Stormwater Ordinance. Issue permits for projects that are in compliance with Municipal Code Chapter 11-18.	Reviewed 230 regulated development projects for Stormwater Ordinance Compliance.	Review plans and when applicable, issue permits for regulated construction projects.
D.1	Regulatory Control Program	Ensure all projects at O'Hare obtain coverage under General Permit ILR10.	Website is continuously updated posting each NOI, SWPPP, & NOC. (http://www.flychicago.com/community/environment/NPDES/pages/default.aspx)	Obtain ILR10 coverage for projects on O'Hare property. Continuously update MS4 Compliance website with relevant information.
D.2	Erosion and Sediment Control BMPs	Ensure correct erosion and sediment control BMP's are being regulated through review of stormwater management documents.	Continued revising draft Regulations and Manual. Documents are planned to be finalized next year.	Finalize new update of the Stormwater Regulations and Manual.
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. Affidavits kept on file.	Require permittees sign affidavit.
D.2	Erosion and Sediment Control BMPs	Prevent spreading of sediment and debris from construction sites.	Issued 180 citations for construction site cleanliness.	Perform inspections and issue citations as needed.
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.	10 projects incorporating stormwater strategies into their developments as part of the Sustainable Development Policy.	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.	Inspections conducted weekly and after significant rain events.	Perform inspections weekly and after rain events greater than 0.5 inches.
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 to prevent debris from entering the sewer system.	Require contractors to cover catch basins adjacent to construction sites.

Post-Construction Stormwater Management

BMP No.	BMP Category	Brief Description of BMP	Year 16 Measurable Goal Progress	Year 17 Measurable Goals
E.1	Community Control Strategy	Collect and retain stormwater through the installation of green infrastructure on City 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 projects that included permeable pavement, bioswales, biofiltration basins, infiltration planters, detention systems, green roofs, and pervious landscaping.	Install green infrastructure as part of City projects.
E.2	Regulatory Control Program	Ensure correct post-construction runoff controls are being properly regulated through review of stormwater management documents.	Continued revising draft Regulations and Manual. Documents are planned to be finalized next year.	Finalize new update of the Stormwater Regulations and Manual.

E.3	Long Term O&M Procedures	Enforce development and implementation of O&M plans for regulated projects. Verify developments have an approved O&M plan in place prior to construction.	Reviewed applicable O&M plans for Stormwater Ordinance compliance.	Review O&M plans.
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.	Inspected approximately 250 projects 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 16 Measurable Goal Progress	Year 17 Measurable 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 2FM, Fleet and Facility Operations employees completed trainings on pollution prevention BMPs, and new hires completed trainings as part of the Sustainable Operations Plan onboarding process. For CDA, regular trainings offered at O'Hare on spill reporting and prevention. During the permit year, there were around 5,500 City employees and contractors that received this training.	Train employees about stormwater management and pollution prevention BMPs.

			<p>For DSS, completed street sweeper driver training, which included BMPs on debris collection and disposal.</p> <p>For DWM, DOB completed 2-hr training session for new mason inspectors on 10/16/2018, and refresher training for all mason inspectors on 2/14/2019. Staff attended the Illinois Association for Floodplain and Stormwater Management Annual Conference, the Storm Water Solutions Conference, and construction project managers completed training on construction site runoff controls.</p>	
F.1	Employee Training Program	Educate employees about green infrastructure. 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.	<p>For 2FM, Fleet and Facility Operations employees completed trainings on green infrastructure BMPs.</p> <p>For DOB, completed Mason Inspector's Refresher Training on 2/14/2019 that included information on green infrastructure.</p> <p>For DSS, trained staff on Green Alley SOP.</p> <p>For DWM, planning, design, and construction project managers completed training on permeable pavement, rain garden, detention, bioswale, and runoff BMPs design and maintenance.</p>	Train employees about green infrastructure design, installation, maintenance, and repairs.
F.2	Inspection and Maintenance Program	Maintain and rehabilitate the sewer system through cleaning, lining and replacement.	Cleaned 14,080 catch basins, lined 44.5 miles of sewers and approximately 5,000 structures, and replaced 20.1 miles of sewers for the 2018 calendar year.	Clean 15,000 catch basins, line 42 miles of sewers, line 5,000 structures, and replace 22 miles of sewers for the 2019 calendar year.

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 232,920 miles of streets and 5,553 alleys for the 2018 calendar year.	Sweep over 200,000 miles of streets and over 2,000 alleys for the 2019 calendar year.
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, which increases the likelihood of pollution and thus the need for additional attention.	Deployed 1 or 2 skimmer boats 7 days a week, weather permitting, along the Riverwalk from March through November 2018.	Deploy skimmer boat during warm weather months.
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 5 regulated developments within floodplains to confirm compliance with the City's Flood Control Ordinance.	Review regulated projects within floodplains.

F.6	Other Municipal Operations Controls	Follow specific department policies that involve pollution prevention.	<p>For 2FM, documented BMPs for both fleet operations and facility operations. Followed specific pollution prevention BMPs.</p> <p>For CDA, continued update of the O'Hare site wide SWPPP. ILR10 site specific SWPPPs are continuously reviewed and approved based on project scope.</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> <p>For DSS, salt usage is controlled with an iPad system to help new drivers use the right quantities for salt disbursement. Vehicles also have spreader controls that limit the amount of salt spread per lane mile. 95th Street Salt Pile is tarped when not in use, and facility follows specific BMPs.</p>	Follow department specific processes.
-----	-------------------------------------	--	--	---------------------------------------

Section F
Table 2
Year 16 ILR10 Construction Projects

Project Name	NPDES ILR10 Permit #	NOI	NOC	NOT
Taxiway LL	ILR10U349	11/19/2014	1/8/2015	7/12/2018
Daytona Beach Sanitary Lift Station	ILR10U483	1/13/2015	2/13/2015	7/12/2018
ARRF Station 1 Modifications*	ILR10U764	3/10/2015	4/10/2015	8/27/2018
Joint Use Facility and ATS Extension	ILR10V084	4/22/2015	5/21/2015	TBD
Runway 10C-28C RWSL & South Airfield Improvements	ILR10V844	9/3/2015	10/5/2015	7/12/2018
O'Hare Airport Transit System	ILR10W209	12/21/2015	1/22/2016	TBD
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	7/12/2018
East Airfield Lighting Control Vault	ILR10Y169	3/1/2017	4/3/2017	TBD
ARFF Station 2 Relocation	ILR10Y210	3/13/2017	4/14/2017	TBD
Central Deicing Facility - Paving and Utilities	ILR10Y211	3/14/2017	4/14/2017	TBD
Fuel System Improvement Program - New Transmission Mains	ILR10X889	12/30/2016	1/30/2017	TBD
Airport Maintenance Complex Expansion	ILR10X784	11/15/2016	12/15/2016	TBD
Runway 10R-28L Safety and Security Additions Package 2	ILR10Y704	5/23/2017	6/23/2017	TBD
Northeast Cargo Development Fuel Farm Expansion	ILR10W024	10/9/2015	11/16/2015	TBD
Central Deicing Facility - Ramp Tower	ILR10Y897	7/10/2017	8/10/2017	TBD
Employee Parking Package 1	ILR10Z179	8/17/2017	9/18/2017	TBD
Taxiway Z/J and Tank Farm Road Package B	ILR10Z180	8/17/2017	9/18/2017	TBD
Runway 9C-27C Package 2	ILR10Z457	11/6/2017	12/7/2017	TBD
FSIP - Truck Rack Facility	ILR10Z568	12/14/2017	1/12/2018	TBD
Employee Parking Package 2	ILR10Z583	12/22/2017	1/22/2018	TBD

Fuel System Improvement Program - Vault Modifications	ILR10AC11	5/4/2018	6/11/2018	TBD
Runway 9C-27C Package 3	ILR10AH31	8/13/2018	9/4/2018	TBD
Runway 9R RWSL	ILR10AM14	12/4/2018	1/4/2019	TBD
Fuel System Improvement Program - South Transmission Mains	ILR10AM24	12/4/2018	1/4/2019	TBD
Runway 9R-27L Extension - West	ILR10AM34	12/4/2018	1/4/2019	TBD