



Public Works & Engineering
1420 Miner Street, Des Plaines, IL 60016
P: 847.391.5390 | W: desplaines.org

May 29, 2020

Ref. # 20-013

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section #19
Municipal Annual Inspection Report
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Submitted electronically to:
epa.ms4annualinsp@illinois.gov

As per direction on the IEPA website:
<https://www2.illinois.gov/epa/topics/forms/water-permits/storm-water/Pages/ms4.aspx>.

Re: City of Des Plaines – General NPDES Permit No. ILR400325

Please find the following documents enclosed for the City's annual reporting for General NPDES Permit No. ILR400325.

- **Annual Facility Inspection Report (executed form WPC 691)**
- **2019-2020 Annual Report**
- **Des Plaines 2019 Water Quality Testing Report**

If you should have any questions please feel free to call me or Derek Peebles at (847) 391-5390.

Sincerely,

Timothy P. Oakley, P.E., CFM
Director of Public Works and Engineering

A handwritten signature in black ink, appearing to read 'D. Peebles'.

Derek Peebles, P.E.
Civil Engineer

Enclosures

Cc: Tim Watkins, Assistant Director of Public Works and Engineering



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, 2019 To March, 2020

Permit No. ILR40 400325

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

Name: City of Des Plaines Mailing Address 1: 1420 Miner Street
Mailing Address 2: _____ County: Cook
City: Des Plaines State: IL Zip: 60016 Telephone: 847-391-5390
Contact Person: Timothy P. Oakley, P.E., CFM Email Address: toakley@desplaines.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 Des Plaines

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:

Timothy P. Oakley, P.E., CFM
Printed Name:

5-28-2020
Date:

Dir. of Public Works and Engineering
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

2019-2020 Annual Report (PY 4)

This report covers activities that occurred between the following dates:

04/01/19 – 3/31/20

For questions regarding this report contact:

Timothy P. Oakley, P.E., CFM
 Director of Public Works and Engineering
 City Of Des Plaines, 1420 Miner Street
 Des Plaines, IL 60016

Permit Information

- | | |
|---------------------------------|---|
| 1. Permitting Authority: | Illinois Environmental Protection Agency |
| 2. Permit Number: | ILR40 |
| 3. Permit Type: | General |
| 4. Permit Name: | Des Plaines NPDES MS4 Phase II Permit (2016-21) |
| 5. Date Issue: | 2/10/2016 |
| 6. Date Expire: | 2/28/2021 |

General Information for MS4 Operator

- | | | |
|----------------------------------|---------------------------|------------------------|
| 1. Operator Name: | Matthew Bogusz | |
| 2. Operator Title: | Mayor | |
| 3. Represented Entity: | City of Des Plaines | |
| 4. Mailing Address: | 1420 Miner Street | |
| 5. Mail City, State, Zip: | Des Plaines, IL 60016 | |
| 6. Phone Number: | (847) 391-5301 | |
| 7. E-Mail Address: | mbogusz@desplaines.org | |
| 8. Co-Permitting With: | n/a | |
| 9. Population: 58,710 | Households: 22,018 | Area (sq mi):16 |
| 10. Official Website: | www.desplaines.org | |

General Information for Primary Contact

- | | |
|---------------------------|--|
| 1. Name: | Timothy P. Oakley, P.E., CFM |
| 2. Title: | Director of Public Works and Engineering |
| 3. Phone Number | (847) 391-5390 |
| 4. E-Mail Address: | toakley@desplaines.org |

General Information for Secondary Contact

- | | |
|---------------------------|--|
| 1. Name: | Tim Watkins |
| 2. Title: | Assistant Director of Public Works and Engineering |
| 3. Phone Number | (847) 391-5468 |
| 4. E-Mail Address: | pw@desplaines.org |

General Information for Receiving Waters

Receiving Water Lists: Listed below are all the identified receiving waterbodies to which identified outfalls discharge.

Receiving Streams

Feehanville Ditch
Wellers Creek
Prairie Creek
Farmers Creek
Willow Creek
Higgins Creek
Des Plaines River

Receiving Waterbodies

Big Bend Lake
Belleau Lake
Shagbark Lake
Lake Opeka
Axehead Lake
Peterson Lake

Receiving Watersheds

Des Plaines River Watershed



Public Education and Outreach

BMPs and Work Performed for Them

A.1. Business Stormwater Flyer Insert

Responsible Party: Public Works, Director of Public Works

In 2015, the City's Community and Economic Development Department began making the transition to online business license renewals. As a result, the pre-2015 practice of including an informational stormwater flyer with the business license renewal mailing wasn't feasible. The business relevant stormwater information has been added to the City's NPDES webpage.

A.1. Curbside Calendar

Responsible Party: Public Works, Director of Public Works and Engineering

The Curbside calendar provides residents with waste disposal options and recycling information. The calendar also provided storm water pollution information. Calendars were sent to 15,000+ residential homes in December 2019 for the 2020 calendar year.

A.1. Pet Waste Collection City Code

Responsible Party: Community Development, Director of CED

City code 6-1A-11 indicates that pet excrement shall be removed by person and deposited in appropriate receptacle. City code 6-1A-12 indicates defecation is not allowed to accumulate in residential yards and shall be cleaned on a regular basis.

Informational stormwater flyers were sent to approximately 1,900 pet owners as part of the March 2016 pet license renewal mailing. However, the City eliminated the pet licensing program in 2018. Therefore, the past practice of including an informational stormwater flyer with the pet license renewal mailing was no longer an option. The pet owner relevant stormwater information has been added to the City's NPDES webpage.

A.1. Stormwater Articles in City Newsletter

Responsible Party: Public Works, Director of Public Works and Engineering

Stormwater information was provided in the Spring 2019 Digest newsletter delivered to all Des Plaines homes. During 2019, the City's existing quarterly Digest newsletter was discontinued and restyled/relaunched as an "Access Point" newsletter. The first "Access Point" newsletter was distributed in October 2019. Copies are kept on file.

A.3. Cable TV Stormwater Segment

Responsible Party: Public Works, Director of Public Works and Engineering

Public Education slides developed in 2009 were put in local Cable Channel 17's broadcast rotation annually in March. Beginning in 2013 the City implemented a new cable programming system and rather than just a single month, the stormwater slides are now put in rotation on both Cable Channel 17 and 24 for the period from March 15th to October 15th with a typical exposure of 10-20 times per day between the two channels.

A.4. Arbor Day Community Event(s)

Responsible Party: Public Works, Director of Public Works and Engineering

As part of its Tree City USA status with the Arbor Day Foundation, the City hosts an annual tree planting ceremony with a selected school each Arbor Day. However, In 2020, the ceremony was forced to be cancelled due to the Covid-19 stay-at-home requirements. The annual ceremonies are intended to resume in future years.

A.5. Children Education Program

Responsible Party: Public Works, Director of Public Works and Engineering

The City will make schools aware of the availability of the MWRD “Classroom Visitor” program, whereby the MWRD will provide a Community Education Specialist to educate classes, from kindergarten through college, about stormwater management to the schools. The AP Science class at Maine West High School has in the past participated in the MWRD program.

Public Participation/Involvement

BMPs and Work Performed for Them

B.1. & B.5. Watershed Organizations

Responsible Party: Engineering, Director of Public Works and Engineering

The Flood Action Group, a grassroots resident group with up to 100 members, formed in the Fall of 2008 get involved with flooding and stormwater issues. The City continued communication with group into 2009, and used input from the group in capital improvement program planning. However, the group is no longer active.

B.6. PW Staffing

Responsible Party: Public Works, Director of Public Works and Engineering

Reorganization occurred in July 2009. The Engineering Department and the Public Works Department were merged. An Assistant to the Director of Public Works and Engineering position was established with responsibility for overseeing the City's efforts in environmental conservation, including waste management, recycling, and "green" initiatives. The individual in this position left the City in October of 2010 and was left vacant due to budgetary constraints. The responsibilities associated with the position have since been spread amongst other staff within the department.

B.7. Adopt-A-Spot

Responsible Party: Public Works, Director of Public Works and Engineering

Volunteer groups continue to work with Public Works to clean up littered areas. PW supplies these groups with gloves, bags and garbage pickers.

B.7. IEPA Hazardous Waste Collection Program

Responsible Party: Public Works, Director of Public Works and Engineering

Residents are referred to IEPA's website, listing hazardous waste collection dates and sites. Information about the collection schedule and sites is included in the curbside calendar delivered to all Des Plaines homes. And a page on the City website lists the year-round drop-off sites.

(http://www.desplaines.org/residents/refuse/hazardous_waste.htm)

B.7. MWRD Lower Des Plaines River Watershed Planning Council

Responsible Party: Mayor's Office

Engineering staff continued participation on the Council.

B.7. MWRD Technical Advisory Committee

Responsible Party: Engineering, Director of Public Works and Engineering

The Director of Public Works and Engineering played an active role with the MWRD committee crafting the Watershed Management Ordinance for the county. The preliminary work of the committee largely wrapped up in 2009 and a draft ordinance was release for public comment. The WMO was adopted by the District on October 3, 2013 and was effective beginning May 1, 2014.

B.7. Recycling Program

Responsible Party: Public Works, Director of Public Works and Engineering

Residential curbside recycling program maintained for over 15,000 homes. The curbside program includes pick up and recycling of electronic waste. Public Works allows residents to drop off fluorescent light bulbs, batteries, and tires for recycling by a local vendor. In January of 2012 the City began offering free year-round electronics recycling at the Public Works facility in order to help keep hazardous materials such as mercury out of the waste stream. In addition, the Public Works Department hosted a free holiday light recycling event throughout January and February of 2020.

B.7. Residential Parkway Tree Planting Program***Responsible Party: Public Works, Director of Public Works and Engineering***

Public Works has a Forestry Division which plants and maintains parkway trees throughout the year. In 2013, the City began a full program to remove and replace Ash trees throughout the City in response to the regional Emerald Ash Borer infestation. Residents were offered subsidized replacement trees for any ash trees that were removed. The removal of ash trees was substantially completed in 2014. Planting of replacement trees continued into 2015.

B.7. Storm Drain Stenciling***Responsible Party: Public Works, Director of Public Works and Engineering***

Program discontinued as all new frame and grate structures are ordered with the precast "No Dumping-Drains to River" notation.

B.7. Stormwater Committee of NWMC***Responsible Party: Mayor's Office***

The Northwest Municipal Conference Stormwater Committee no longer exists. The primary goal of the committee had been the creation of a county-wide stormwater management authority. This was achieved through State legislation empowering the MWRD with this authority. Since that time a committee was formed by the MWRD to work on creation of the Watershed Management Ordinance for the county. The WMO has since been adopted.

B.7. Stormwater Management Info on Website***Responsible Party: Engineering, Director of Public Works and Engineering***

A new NPDES MS4 home page was launched on City website in June of 2009. The page provides an introduction to the program and provides links to the IEPA and USEPA NPDES pages, the ILR40 permit, the City's annual reports and the City's Notices of Intent. A new NPDES CSO program page was launched at the same time. The City website was redesigned in early 2016 and the NPDES pages were carried over onto the new website.

Illicit Discharge Detection and Elimination

BMPs and Work Performed for Them

C.1. Storm Sewer System Map

Responsible Party: Public Works, Director of Public Works and Engineering

City sewer system map is updated regularly with notes from field crews and changes to sewer as part of capital improvement projects and private development projects.

Utility Foremen also meet with GIS staff bi-monthly to update utility maps. In addition, GraniteNet software has been incorporated into the City's sewer televising equipment. The software allows for the collection of detailed sewer information that can be incorporated directly into the City's GIS. Data is continually collected and the GIS updated as part of the routine sewer televising operations.

C.2. Illicit Connection Ordinance

Responsible Party: Public Works, Director of Public Works and Engineering

The City was an active member of the MWRD Technical Advisory Committee (TAC) which drafted a Watershed Management Ordinance (WMO) for adoption by all of the Cook County communities. The WMO is now complete and became effective on May 1, 2014.

[In the initial permit years, the City played a significant role in lobbying for and helping to establish a county-wide stormwater management group for Cook County, similar to that which has been in existence for the collar counties. The importance of a county-wide group is to ensure that the communities throughout the County are coordinated in their efforts and to assist the individual communities in complying with the NPDES program. As a result of these efforts, the MWRD was granted stormwater management authority for Cook County in late 2004. In 2007, a Cook County Stormwater Management Plan was adopted by the County. The Plan establishes the framework for the countywide program.]

In 2009-10, in advance of the completion of the county-wide WMO, the City hired an engineering consultant (Gewalt Hamilton Associates, Inc.) to perform a review of the City's stormwater ordinances. The scope of the review was expanded to include review of the City's entire NPDES stormwater program. Several meetings involving relevant staff members from the variety of departments involved in stormwater, were conducted as part of the consultant review. Changes have been made to the City's inspection and plan review procedures throughout the course of and in response to the program review.

In 2014, the City again hired Gewalt Hamilton Associates to review its overall NPDES program and to more specifically work with the City on the drafting of new stormwater ordinances now that the WMO is complete. The work was never completed under the contract with GHA. In spring of 2016, the City hired TRC Environmental to pick up on the work of GHA and to do a new comprehensive review of the City program and ordinances with relation to the several overlapping stormwater management programs including the newly issued Illinois NPDES MS4 and CSO permits, as well as the new MWRD IICP program. Staffing changes at TRC resulted in the contract being terminated.

In late 2016, the City newly contracted with Manhard Associates to pick up on the work started with TRC. And the City executed another significant contract with Manhard for the review and revision of the City's stormwater related ordinances to comply with the latest NPDES permits. A new draft Stormwater Management Program and ordinances were drafted but were never fully completed for adoption. With the addition of MWRD IICP program requirements, the City determined that a new, unified comprehensive stormwater management program was needed that would incorporate all of the various stormwater permitting programs including NPDES MS4, NPDES CSO, CMOM, MWRD IICP, Levee 50 Army Corps requirements, etc.

In early 2020 the City met with the consultant RJN Group to discuss the consolidation of all the City stormwater programs into the single master program to allow for more streamlined compliance. As of this writing, discussions are on hold due to the Covid-19 shutdown and budget impacts.

C.4. Hazardous Materials Response Team***Responsible Party: Fire Department, Fire Chief***

The City of Des Plaines Fire Department is part of a Combined Communities Chemical Emergency Response Team.

The City of Des Plaines Fire Department responds to 9-1-1 calls regarding possible hazardous spills/illegal discharge activities. Determination of the release of such materials is made by the Fire Chief or his authorized representative. Appropriate personal protection equipment is used and removal is performed. The Fire Department completes forms documenting the incident, including information such as the type of hazardous material, decontamination procedures, protective clothing, exposure log, etc.

C.4. Illicit Connections Detection***Responsible Party: Community Development, Director of CED***

Inspections continue throughout the year.

C.4. Illicit Discharge Inspection Program***Responsible Party: Public Works, Director of Public Works***

In advance of the completion of the county-wide WMO, the City hired an engineering consultant (Gewalt Hamilton Associates, Inc.) to perform a review of the City's stormwater ordinances. The scope of the review was expanded to include review of the City's entire NPDES stormwater program. Several meetings involving relevant staff members from the variety of departments involved in stormwater, were conducted as part of the consultant review. Changes have been made to the City's inspection and plan review procedures throughout the course of and in response to the program review. As indicated earlier in this report, the City is now under contract with Manhard Associates for a new comprehensive review of the City's program.

In July of 2010 the City began annual water quality testing in the Des Plaines River upstream and downstream of the City's MS4 discharge. The water is sampled in seven locations for Ammonia, Chloride, Fluoride, Biochemical Oxygen Demand (BOD, 5 day), Phenolics, Total Phosphorus, Total Suspended Solids, Total Kjeldahl Nitrogen, Metals (Potassium), Temperature, pH, Conductivity, Dissolved Oxygen and Total Dissolved Solids. All test results were deemed to be normal with the exception of elevated background phosphorous levels throughout the river, low dissolved oxygen levels at the Forest Preserve sampling location and high total suspended solids at two of the sites. None of the findings suggested illicit discharges.

In June of 2016, the City contracted with Gewalt Hamilton Associates for the latest water quality testing. The results were generally consistent with the previous results with the exception of higher fecal coliform counts than in the 2015 samples. However, there was a period of heavy rain in advance of the 2016 tests and so inundation of the MWRD interceptor sewers and resulting combined sewer overflows are the likely cause of these results.

Beginning in 2017, the City has contracted with Manhard Associates, who was also advising on the City's full NPDES program, for the water quality testing. Based upon the new IEPA permitting requirements, additional monitoring locations were added, along with additional testing parameters including Mercury and PCB's.

C.4. MWRD Inspection/Tracing Program***Responsible Party: Engineering, Director of Public Works and Engineering***

The City of Des Plaines continued to participate with the MWRD in the joint inspections of new sewer connections to ensure no illicit connections.

C.4. Training and Education of PW Employees***Responsible Party: Public Works, Director of Public Works and Engineering***

Public Works continues to send its staff to various NPDES workshops as well as seminars hosted by IAFSM and APWA that address illicit discharge best management practices for detection and elimination. In addition, Public Works purchased a stormwater management training DVD to for the in-house training.

In the winter of 2015 and the spring of 2016, representatives of Public Works and Engineering attended four different workshops pertaining to stormwater management. The workshops were organized in relation to the new MWRD inflow and infiltration program requirements, but expanded to other aspects of stormwater management including CMOM.

C.5. Hazardous Materials Clean-Up Program***Responsible Party: Fire Department, Fire Chief***

The City of Des Plaines Fire Department is part of a Combined Communities Chemical Emergency Response Team.

The City of Des Plaines Fire Department responds to 9-1-1 calls regarding possible hazardous spills/illegal discharge activities. Determination of the release of such materials is made by the Fire Chief or his authorized representative. Appropriate personal protection equipment is used and removal is performed. The Fire Department completes forms documenting the incident, including information such as the type of hazardous material, decontamination procedures, protective clothing, exposure log, etc.

C.5. Illicit Source Removal Program***Responsible Party: Public Works, Director of Public Works and Engineering***

Continuation of Public Works identifying problem and notifying the Metropolitan Water Reclamation District. The City worked with Manhard Associates in drafting additional ordinance updates. However, these updates were tabled pending creation of a new unified comprehensive stormwater management program that would consolidate all of the existing disparate stormwater permitting programs to which the City is subject.

C.5. MWRD Illicit Connection Removal Enforcement Program***Responsible Party: Engineering, Director of Public Works and Engineering***

As of January 2020, the MWRD is monitoring 9 "Significant Industrial Users" in Des Plaines. (www.mwrdd.org)

C.9. Illegal Dumping & Illicit Discharge Line (9-1-1)***Responsible Party: Public Works, Director of Public Works and Engineering***

Slides were created in August of 2010 to educate the public about the issues of illegal dumping and illicit discharge. The slides direct citizens to call 9-1-1 if either are observed. The slides have been in regular rotation on the local Cable Channel #17 since they were created and were also added to Channel #24 beginning in 2013.

Construction Site Runoff Control

BMPs and Work Performed for Them

D.1. Construction Site Stormwater Runoff Control Ordinance

Responsible Party: Engineering, Director of Public Works and Engineering

The City was an active member of the MWRD Technical Advisory Committee (TAC) which drafted a Watershed Management Ordinance (WMO) for adoption by all of the Cook County communities. The WMO is now complete and became effective on May 1, 2014.

[In the initial permit years, the City played a significant role in lobbying for and helping to establish a county-wide stormwater management group for Cook County, similar to that which has been in existence for the collar counties. The importance of a county-wide group is to ensure that the communities throughout the County are coordinated in their efforts and to assist the individual communities in complying with the NPDES program. As a result of these efforts, the MWRD was granted stormwater management authority for Cook County in late 2004. In 2007, a Cook County Stormwater Management Plan was adopted by the County. The Plan establishes the framework for the countywide program.]

In 2009-10, in advance of the completion of the county-wide WMO, the City hired an engineering consultant (Gewalt Hamilton Associates, Inc.) to perform a review of the City's stormwater ordinances. The scope of the review was expanded to include review of the City's entire NPDES stormwater program. Several meetings involving relevant staff members from the variety of departments involved in stormwater, were conducted as part of the consultant review. Changes have been made to the City's inspection and plan review procedures throughout the course of and in response to the program review.

In 2014, the City again hired Gewalt Hamilton Associates to review its overall NPDES program and to more specifically work with the City on the drafting of new stormwater ordinances now that the WMO is complete. The work was never completed under the contract with GHA. In spring of 2016, the City hired TRC Environmental to pick up on the work of GHA and to do a new comprehensive review of the City program and ordinances with relation to the several overlapping stormwater management programs including the newly issued Illinois NPDES MS4 and CSO permits, as well as the new MWRD IICP program. Staffing changes at TRC resulted in the contract being terminated.

In late 2016, the City newly contracted with Manhard Associates to pick up on the work started with TRC. And the City executed another significant contract with Manhard for the review and revision of the City's stormwater related ordinances to comply with the latest NPDES permits. A new draft Stormwater Management Program and ordinances were drafted but were never fully completed for adoption. With the addition of MWRD IICP program requirements, the City determined that a new, unified comprehensive stormwater management program was needed that would incorporate all of the various stormwater permitting programs including NPDES MS4, NPDES CSO, CMOM, MWRD IICP, Levee 50 Army Corps requirements, etc.

In early 2020 the City met with the consultant RJN Group to discuss the consolidation of all the City stormwater programs into the single master program to allow for more streamlined compliance. As of this writing, discussions are on hold due to the Covid-19 shutdown and budget impacts.

D.1. Educate Developers and Contractors

Responsible Party: Engineering, Director of Public Works and Engineering

The Engineering Department has continued to use the erosion control detail sheet and specifications for all City projects. Stormwater management is included on the agenda at all pre-bid and pre-construction meetings to ensure that contractors are aware of the requirements.

City staff have also continued to refine the existing City development manual to make it easier to understand and to accommodate additional information about stormwater management. All materials are available through the Engineering page of the City's website.

The City's materials were independently reviewed by an engineering consultant in 2014, and were again reviewed by a different consultant in 2018.

D.4. Stormwater Runoff Site Plan Review

Responsible Party: Engineering, Director of Public Works and Engineering

The City continues to use a checklist, which includes the NPDES MS4 stormwater management items, in all of its plan reviews. This checklist was modified based upon the 2018 consultant review of the City's program.

As part of the current plan review and permitting, all private development contractors are required to complete the Stormwater Pollution Prevention Plan forms, which include the ILR10 and ILR40 requirements, and to indicate their understanding of such.

D.6. City Staff Inspection Training

Responsible Party: Engineering, Director of Public Works and Engineering

Due to layoffs of Engineering personnel, in spring of 2009, inspection responsibilities were reassigned and internal training was conducted with the Department resident engineers and engineering inspectors based upon the previous sediment and erosion control course materials and the NPDES MS4 guidance materials. In addition, City staff conducted a half-day meeting with the consultant Gewalt-Hamilton to review the City's existing practices for potential improvements.

In June of 2013, the City's two engineering inspectors attended a day-long "Designated Erosion Control Inspector Workshop" sponsored by the Lake County Stormwater Management Commission. In addition, in the spring and summer of 2014, the directors and three engineers from the engineering department attending training on the MWRD Watershed Management Ordinance. In the winter of 2015 and the spring of 2016, representatives of Public Works and Engineering attended four different workshops pertaining to stormwater management. The workshops were organized in relation to the new MWRD inflow and infiltration program requirements, but expanded to other aspects of stormwater management including CMOM. In spring of 2018, the City's plan review engineer attended a refresher course on erosion control organized by the Lake County Stormwater Management Commission. In April of 2019 the City's plan reviewer attended the Designated Erosion Control Inspector Workshop organized by the Lake County Stormwater Management Commission. In February of 2020, seven of the City's Engineering Department staff attended the Designated Erosion Control Inspector Workshop hosted by the Lake County Stormwater Management Commission.

D.6. City Staff Site Inspection and Enforcement

Responsible Party: Engineering, Director of Public Works and Engineering

The Engineering Department has continued reviewing sites for sediment and erosion control as part of its normal construction site inspections and in accordance with NPDES ILR40 permit guidelines. The inspectors continue to use the "Stormwater Pollution Prevention Plan Erosion Control Inspection Report" forms to document inspections.

The Community Development building inspectors have also been involved in the process on a day-to-day basis and as part of monthly Public Works-Engineering-Community Development Coordination Meetings. The Community Development building inspectors serve as an extra set of eyes, and contact the Engineering Department if they notice any stormwater issues or violations as part of their general inspections.

D.7. Public Reporting

Responsible Party: Public Works, Director of Public Works and Engineering

Residents are and will be encouraged to report unlawful activities to the City. As discussed in previous section, slides were created for the Local Cable Channel 17 to educate the public to call 9-1-1 if they witness illegal dumping and/or illicit discharges.

Post-Construction Runoff Control

BMPs and Work Performed for Them

E.2. & E.3. Post Construction Runoff Control Ordinance

Responsible Party: Engineering, Director of Public Works and Engineering

The City was an active member of the MWRD Technical Advisory Committee (TAC) which drafted a Watershed Management Ordinance (WMO) for adoption by all of the Cook County communities. The WMO is now complete and became effective on May 1, 2014.

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In 2014, the City again hired Gewalt Hamilton Associates to review its overall NPDES program and to more specifically work with the City on the drafting of new stormwater ordinances now that the WMO is complete. The work was never completed under the contract with GHA. In spring of 2016, the City hired TRC Environmental to pick up on the work of GHA and to do a new comprehensive review of the City program and ordinances with relation to the several overlapping stormwater management programs including the newly issued Illinois NPDES MS4 and CSO permits, as well as the new MWRD IICP program. Staffing changes at TRC resulted in the contract being terminated.

In late 2016, the City newly contracted with Manhard Associates to pick up on the work started with TRC. And the City executed another significant contract with Manhard for the review and revision of the City's stormwater related ordinances to comply with the latest NDPEs permits. A new draft Stormwater Management Program and ordinances were drafted but were never fully completed for adoption. With the addition of MWRD IICP program requirements, the City determined that a new, unified comprehensive stormwater management program was needed that would incorporate all of the various stormwater permitting programs including NPDES MS4, NPDES CSO, CMOM, MWRD IICP, Levee 50 Army Corps requirements, etc.

In early 2020 the City met with the consultant RJN Group to discuss the consolidation of all the City stormwater programs into the single master program to allow for more streamlined compliance. As of this writing, discussions are on hold due to the Covid-19 shutdown and budget impacts.

E.4. Review of Construction Plans and Designs

Responsible Party: Engineering, Director of Public Works and Engineering

The City's continues to use a checklist, which includes the NPDES MS4 stormwater management items, in all of its plan reviews. This checklist was modified based upon the 2018 consultant review of the City's program.

As part of the current plan review and permitting, all private development contractors are required to complete the Stormwater Pollution Prevention Plan forms, which include the ILR10 and ILR40 requirements, and to indicate their understanding of such.

E.5. Inspection Training

Responsible Party: Engineering, Director of Public Works and Engineering

Due to layoffs of Engineering personnel, in spring of 2009, inspection responsibilities were reassigned and internal training was conducted with the Department resident engineers and engineering inspectors based upon the previous sediment and erosion control course materials and the NPDES MS4 guidance materials. In addition, City staff conducted a half-day meeting with the consultant Gewalt-Hamilton to review the City's existing practices for potential improvements.

In June of 2013, the City's two engineering inspectors attended a day-long "Designated Erosion Control Inspector Workshop" sponsored by the Lake County Stormwater Management Commission. In addition, in the spring and summer of 2014, the directors and three engineers from the engineering department attending training on the MWRD Watershed Management Ordinance. In the winter of 2015 and the spring of 2016, representatives of Public Works and Engineering attended four different workshops pertaining to stormwater management. The workshops were organized in relation to the new MWRD inflow and infiltration program requirements, but expanded to other aspects of stormwater management including CMOM. In spring of 2018, the City's plan review engineer attended a refresher course on erosion control organized by the Lake County Stormwater Management Commission. In April of 2019 the City's plan reviewer attended the Designated Erosion Control Inspector Workshop organized by the Lake County Stormwater Management Commission. In February of 2020, seven of the City's Engineering Department staff attended the Designated Erosion Control Inspector Workshop hosted by the Lake County Stormwater Management Commission.

E.5. Site Inspections

Responsible Party: Engineering/Public Works, Director of Public Works and Engineering

The Engineering Department has continued reviewing sites for sediment and erosion control as part of its normal construction site inspections and in accordance with NPDES ILR40 permit guidelines. The inspectors continue to use the "Stormwater Pollution Prevention Plan Erosion Control Inspection Report" forms to document inspections.

The Community Development building inspectors have also been involved in the process on a day-to-day basis and as part of monthly Public Works-Engineering-Community Development Coordination Meetings. The Community Development building inspectors serve as an extra set of eyes, and contact the Engineering Department if they notice any stormwater issues or violations as part of their general inspections.

In addition, as a result of the engineering consultant review of the City stormwater program, the City completed the creation of a full city-wide inventory of retention and detention basins (private basins included). Baseline reports with photos, structure inventories, owner information, etc. were created along with a GIS layer. Letters are to be sent to each basin owner with basic maintenance information and an inspection program is being created for the City to inspect all basins on a 5-year schedule.

E.7. Public Education for Contractors and Developers

Responsible Party: Engineering, Director of Public Works and Engineering

The Engineering Department has continued to use the erosion control detail sheet and specifications for all City projects. Stormwater management is included on the agenda at all pre-bid and pre-construction meetings to ensure that contractors are aware of the requirements.

City staff have also continued to refine the existing City development manual to make it easier to understand and to accommodate additional information about stormwater management. All materials are available through the Engineering page of the City's website.

The City's materials were independently reviewed by an engineering consultant in 2014, and were again reviewed by a different consultant in 2018.

Pollution Prevention/Good Housekeeping

BMPs and Work Performed for Them

F.1. City Employee Training

Responsible Party: Public Works, Director of Public Works and Engineering

New employees receive on the job training and safety in their department specific to their job. Trainings in the reporting year included: mosquito larvacide permitting, collection systems operator licensing, applicator spray license, CMOM, confined spaces, snow/ice control, right to know act, and customer service. Supervisory staff regularly attends IEPA, APWA, AWWA, and other workshops and then relays the information gathered at such to the operational staff.

F.1. Good Housekeeping as part of Personnel Policy Manual

Responsible Party: Public Works, Director of Public Works and Engineering

Gewalt Hamilton (consultant) worked on Housekeeping Procedures to be incorporated into Public Works Department's personnel manual. The manual is complete and monthly SWPPP inspections are conducted.

F.2. ASIST Reporting/Tracking Computer Program

Responsible Party: Public Works, Director of Public Works and Engineering

The Public Works and Engineering Department discontinued support of ASIST software for program tracking. Now that the City is more familiar with the NPDES MS4 program and through the course of the consultant review, it was determined that value added from the software was limited and that the program tracking could more flexibly be handled through conventional MS Office software packages.

F.2. Catch Basin/ Inlet Cleaning

Responsible Party: Public Works, Director of Public Works and Engineering

The Sewer Division performed cleaning on a total of 1,207 catch basins during the period from April 1, 2019 – March 31, 2020.

F.2. Creek Outfall Structure Inspection & Repair

Responsible Party: Public Works, Director of Public Works and Engineering

320 man-hours were spent inspecting creek outfalls during the permit year. This includes post rain event inspections. All necessary repairs were made during the time as well.

F.2. Detention Pond Inspection & Cleaning

Responsible Party: Public Works, Director of Public Works and Engineering

Current maintenance on City-owned basins was continued. Employees cut grass and brush at detention pond locations. Erosion control is completed through installation of rip-rap and replanting of vegetation.

In addition, as a result of the engineering consultant review of the City stormwater program, the City completed the creation of a full city-wide inventory of retention and detention basins (private basins included). Baseline reports with photos, structure inventories, owner information, etc. were created along with a GIS layer. Letters are to be sent to each basin owner with basic maintenance information and an inspection program is being created for the City to inspect all basins on a 5-year schedule.

F.3. Leaf Collection Program

Responsible Party: Public Works, Director of Public Works and Engineering

The City's leaf program runs October through early December. With the leaf program, residents' leaves are collected by zone. Each of the five zones is collected five times throughout the fall. Residents also have the option to bag leaves for yard waste program from April 1 through early December. They may also deposit their yard waste free of charge during leaf collection season at the Public Works facility.

F.3. New Inlet Grate Placement Specifications***Responsible Party: Engineering, Director of Public Works and Engineering***

Approximately 294 inlet grates and catch basin lids were replaced as part of the City's 2019 roadway projects. All new grates and lids include casting to indicate "Do Not Dump, Drains to River."

F.3. Street Sweeping***Responsible Party: Public Works, Director of Public Works and Engineering***

The City's program sweeps 340 residential lane miles 7 times per year; weather permitting. 6 complete city-wide sweeping circuits were completed between April 1, 2019 and March 31, 2020. The downtown Business District is swept twice per month. Street sweeping occurs during spring, summer and fall. Winter sweeping may occur depending on weather conditions.

F.4. IEPA Transfer Station Permit for PW Facility***Responsible Party: Public Works, Director of Public Works and Engineering***

Transfer Station Permit still in place throughout the year.

F.4. Public Works Facility Washing Station***Responsible Party: Public Works, Director of Public Works and Engineering***

Facility continues with its existing program. The facility has a concrete floor with drains to the sanitary sewers. Triple basins are also part of the garage system. Surrounding property drains also lead to the sanitary sewers.

F.6. Controlled Application of Pesticides & Herbicides***Responsible Party: Public Works, Director of Public Works and Engineering***

Continuing program. Applications of herbicides are conducted contractually in spring and summer months.

F.6. Covered Salt Storage***Responsible Party: Public Works, Director of Public Works and Engineering***

The City stores salt in a covered salt dome. The dome is constructed of concrete and wood and has improved ventilation, lighting, and a new sodium chloride & brine dispensing system. The dome has a capacity of 4500 tons of salt. There are no drains because the salt is situated on an asphalt pitch.

F.6. Hazardous Material Storage***Responsible Party: Public Works, Director of Public Works and Engineering***

Hazardous materials storage consists of a caged area that is below a fume hood and sprinkler system. There are no drains if a possible leak would occur. The small amount of herbicides that are stored/contained in the caged area (only accessed by 1 person with a key) are placed on skids.

F.6. Sodding Requirement***Responsible Party: Engineering, Director of Public Works and Engineering***

The Public Works Department uses sod and hydroseed when performing parkway repairs.

The Engineering Department specifies sod on all construction projects. However based upon past experience with sod, special shade tolerant hydroseed is now used in areas that do not have adequate sun.

City of Des Plaines - 2019 Capital Improvement Projects

Project Name	CONTRACT NO.	NOI on file	SWPPP on file	Comments
2019 CIP CONTRACT A – Street & Utility Improvements	-	Yes	Yes	NPDES# ILR10AS08
2019 CIP CONTRACT B – Street & Utility Improvements	-	Yes	Yes	NPDES# ILR10AR48
2019 CIP CONTRACT C – Street & Utility Improvements	-	Yes	Yes	NPDES# ILR10AT27
Signal Installation / Replacement and Intersection Improvements <i>(Lee/Forest)</i>	61E86	Yes	Yes	NPDES# ILR10AL11