



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, 2017 To March, 2018

Permit No. ILR40 0343

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

Name: Village of Glenview Mailing Address 1: 2500 East Lake Avenue
Mailing Address 2: _____ County: Cook
City: Glenview State: IL Zip: 60026 Telephone: 847-904-4410
Contact Person: James Tigue, P.E. Email Address: jtigue@glenview.il.us
(Person responsible for Annual Report)

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

Cook County New Trier Township Wheeling Township
Maine Township Northfield Township Niles Township

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))

James Tigue
Owner Signature:
James Tigue, P.E.
Printed Name:

5/31/18
Date:
Civil 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

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.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
ANNUAL FACILITY INSPECTION REPORT
NPDES PERMIT FOR STORMWATER DISCHARGES
FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

**2018 ANNUAL FACILITY INSPECTION REPORT
MARCH 2017 TO FEBRUARY 2018 REPORTING PERIOD**

VILLAGE OF GLENVIEW, ILLINOIS

A. CHANGES TO BEST MANAGEMENT PRACTICES

There were no changes to the Village's Stormwater Management Program during the period from March 2017 to February 2018.

B. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS

The Best Management Practices (BMPs), along with Measurable Goals and Milestones for the March 2017 – February 2018 reporting period are listed below. The Village has developed a Stormwater Management Plan and Notice of Intent that are posted on the Village's Stormwater Pollution Prevention webpage along with the program Annual Report.

BMP No. A1 Distributed Paper Material

The Village publishes a monthly newsletter that is mailed to all residents. Copies of the newsletters are also available on the Village web site. Each year, the newsletter will include at least two articles on topics such as: the impacts of stormwater discharges on water bodies; the steps that the public can take to reduce pollutants in stormwater runoff; the hazards associated with illegal discharges and improper disposal of waste; and green infrastructure.

Measurable Goal(s): Distribute NPDES-related newsletter articles at least twice per year.

Milestones, 2018: **Distribute two newsletter articles to all Village residents.**

BMP Status: During the reporting period, each Village newsletter included a Go Green Glenview column featuring information on recycling, earth-

friendly habits, and environmental events. In addition, there were feature articles on reducing vehicle use, environmental volunteer work day events, and BMPs. All Village newsletters are archived on the web site.

For residents that sign up, the Village also sends a weekly e-newsletter. The e-newsletter occasionally includes articles on stormwater management.

BMP No. A3 Public Service Announcement

The Village publishes a monthly newsletter that is mailed to all residents. Copies of the newsletters are also available on the Village web site. Each year, the newsletter will announce opportunities for residents to properly dispose of waste.

Measurable Goal(s): Annually announce opportunities for residents to reduce chemical pollution in natural resources.

Milestones, 2018: **Announce at least one waste collection event to all Village residents.**

BMP Status: During the reporting period, the Village newsletter included information about recycling events for latex paint, electronics, and textiles, in addition to holiday string lights collection. These events were well advertised and attended. 1,315 pounds of pharmaceutical drugs, 1,273 pounds of sharps, 1,420 light bulbs, 35,270 pounds of electronics, 17,900 pounds of documents for shredding, and more than 4,000 pounds of holiday lights were collected. The events were advertised in multiple E-Glenview newsletters, Village printed newsletters and on the Village website throughout the year.

BMP No. A6 Other Public Education

The Village maintains a web site with information about the Village government, information about Village services and upcoming events. This web site also includes educational information for the public regarding stormwater pollution prevention, which will be updated each year.

Measurable Goal(s): Update the Village web site with educational materials annually.

Milestones, 2018: **Update the Village web site, including information about the impact of climate change on stormwater pollution.**

BMP Status: The Village web site includes a page titled “Stormwater Pollution Prevention”. This page describes the Village’s NPDES Phase II program and includes links to program events, program documents, and educational articles.

The Village also airs Village-produced videos. These “Ask the Village” videos sometimes address stormwater pollution and waste disposal or recycling. “Ask the Village” videos are featured in weekly e-newsletters and on the Village website on a rotating basis.

The Village organized educational events including:

- Ribbon-cutting for butterfly garden – 15 visitors
- OAKtober Tree Trot at The Grove – 26 walkers
- Green Infrastructure Bike Tour – 22 riders
- Tree education and planting at Glenbrook South High School – 18 students

BMP No. B2 Educational Volunteer Events

Each year, the Village Natural Resources Commission organizes work days for public volunteers to collect trash, clear brush, remove invasive plant species, and plant native plant species.

Measurable Goal(s): Organize and publicize annual volunteer work days to involve the public in the stormwater management program.

Milestones, 2018: **Organize and publicize at least one volunteer work day.**

BMP Status: The Village held a volunteer work day on May 13, 2017 and November 5, 2017 to help beautify the West Fork of the North Branch of the Chicago River and Techny Basin. Approximately 40 and 25 volunteers, respectively, picked up litter and pulled invasive plants.

Other volunteer work days were held by other groups and by the schools.

BMP No. B7 Other Public Involvement

The Village offers residents a rain garden cost share program. The program provides a 50% cost-share of projects costs up to \$1,000 for any rain garden that provides a drainage benefit and utilizes native plants. The Village also offered a rain barrel program where residents can purchase a 55-gallon capacity barrel provided by the Metropolitan Water Reclamation District of Greater Chicago (MWRD) directly from the Village at the same price as the MWRD charges. In 2016, the Village began participating in the MWRD’s new program which offers free rain barrels to residents, and discontinued its own for-cost program.

Measurable Goal(s): Hold a public meeting that includes discussion of stormwater pollution topics. Continue the rain garden cost sharing program and

rain barrel program. Identify any potential environmental justice areas within the Village using the website link: <http://epa.gov/environmentaljustice/>.

Milestone, 2018: **Hold a public meeting to discuss stormwater pollution topics. Continue the rain garden cost sharing program and rain barrel program. Identify environmental justice areas within the Village using the website link: <http://epa.gov/environmentaljustice/>**

BMP Status: Six Natural Resources Commission meetings were held, most of which touched on stormwater-related topics. Three rain garden applications were approved during the reporting period. The Village is no longer involved with the rain barrel process.

BMP No. C1 Storm Sewer Map Preparation

The Village has a GIS-based storm sewer map for the entire storm sewer system, including the location of all known outfalls. The map is updated continuously with Capital Improvement Projects and storm sewer added with new development.

Measurable Goal(s): Update the Storm Sewer Map at least annually.

Milestone, 2018: **Update the Storm Sewer Map.**

BMP Status: The storm sewer map is up-to-date.

BMP No. C2/C3/C4/C5/C7 Illicit Discharge Detection and Elimination

Section 38-281 of the Village Code effectively prohibits non-stormwater discharges into the storm sewer system. Section 1-16, and Sections 38-288 through 38-293 implement appropriate enforcement procedures and actions. The Village has developed and begun implementing a systematic plan to find and remove illegal discharges to the storm sewer system. River outfall inspections were commenced in 2012 and are planned on a five-year rotating basis.

Measurable Goal(s): Enforce the Sewer Use Ordinance to regulate discharges to the storm sewer system.

Milestones, 2018: **Monitor outfalls, respond to complaints, trace all suspicious discharges to the storm sewer system, and require removal of all illicit discharges.**

BMP Status: The Village has identified 10 priority outfalls that it will monitor each permit year. The Village inspected each of those outfalls in the reporting period. An inspection report was completed to document

each outfall inspection. No suspicious discharges were found, so there was no tracing or remediation required.

BMP No. C9 Public Notification

The Village publishes a monthly newsletter which is mailed to all residents and also maintains a web site that is increasingly visited by the public. Each year, the newsletter includes articles on stormwater pollution prevention topics, such as the hazards associated with illegal discharges and improper disposal of waste. The Village web site includes a page dedicated to educational information for the public regarding stormwater pollution prevention.

Measurable Goal(s): Annually notify the public regarding the consequences of illicit discharges to the storm sewer system.

Milestones, 2018: **Publish articles in the newsletter and post articles on the web site regarding illicit discharges.**

BMP Status: In the reporting period, the Village newsletter included an article on improper waste disposal at storm inlets. All Village newsletters are archived on the web site.

BMP No. D1/D2/D4/D6 Construction Site Runoff Control

The Village Code and the Engineering Standards Manual act together as the regulatory mechanism used to require erosion and sediment controls on construction sites. The Village Code includes sanctions to ensure compliance. The Village reviews proposed site plans prior to issuing permits for development. Ongoing projects are inspected regularly by both the Development Department (private projects) and the Capital Projects Department (Village projects). Inspections are also performed in response to complaints received from the public. Insufficient erosion control measures are addressed promptly.

Measurable Goal(s): Enforce the Soil Erosion and Sediment Control Ordinance and the Engineering Standards Manual to prevent stormwater pollution resulting from construction site runoff.

Milestone, 2018: **Review site plans for appropriate BMPs, inspect construction sites for proper installation and maintenance of the BMPs, and respond to complaints.**

BMP Status: The Village continues to enforce the Soil Erosion and Sediment Control Ordinance and the Engineering Standards Manual for new development and redevelopment. During the reporting period, the Village reviewed site plans for appropriate BMPs prior to issuing 176 site development permits and then conducted on-site inspections for each permit, with the number of on-site inspections varying depending on the size and duration of the project. Village

inspection staff has been trained to check runoff control measures in conjunction with other inspections.

BMP No. E2/E3/E4/E5/E6 Post-Construction Runoff Control

The Village Code and the Engineering Standards Manual act together as the regulatory mechanism used to address post-construction runoff from new development and redevelopment projects. The Village reviews proposed site plans prior to issuing permits for development. Ongoing projects are inspected regularly by the Development Department. Inspections are also performed in response to complaints received from the public. All stormwater storage facilities constructed as part of a private development remain under private ownership and are maintained by the owner.

Measurable Goal(s): Enforce the Site Plan Review Ordinance and the Engineering Standards Manual to prevent stormwater pollution resulting from post-construction runoff.

Milestone, 2018: **Review site plans for appropriate BMPs, inspect construction sites for substantial conformance with the approved site plans, and ensure long-term maintenance of the BMPs.**

BMP Status: The Village continues to enforce the Site Plan Review Ordinance and the Engineering Standards Manual for new development and redevelopment within the Village.

BMP No. F1 Employee Training Program

The Village uses a DVD and a written exam to train employees on stormwater pollution prevention for municipal operations and illicit discharge detection and elimination.

Measurable Goal(s): Annually train Public Works maintenance staff on stormwater pollution prevention for municipal operations and illicit discharge detection and elimination. Incorporate training for Village staff into the quarterly compliance meetings. Present the DVD *NPDES Phase II – Training for Municipal Employees* to Public Works maintenance staff annually, along with a written exam.

Milestones, 2018: **Incorporate stormwater pollution prevention training into regular employee training.**

BMP Status: Public Works maintenance employees were trained on stormwater pollution prevention for municipal operations and illicit discharge detection and elimination. The DVD *NPDES Phase II – Training for Municipal Employees* was used for the training.

BMP No. F2/F3 Pollution Prevention/Good Housekeeping

The Village has many operational policies designed to prevent stormwater pollution associated with municipal operations. Streets are swept regularly and street sweepings are stored in bins at the Public Works Facility until they are hauled away by a licensed waste hauler. The pavement in the Public Works yard is swept regularly and filter baskets have been installed in all storm sewer inlets in the Public Works yard. Underground storage tanks at the Public Works Facility are double-walled for containment and fuel is stored in containers with overflow alarms. Road salt is stored in a covered storage building. Other materials that are stored outdoors and which could be carried with runoff into the storm sewer system are covered by a tarp when not in use. Fleet maintenance is performed inside the Public Works Facility where the floor drains are connected to triple basins and the sanitary sewer system, rather than the storm sewer system. Large debris is knocked off maintenance equipment in the Public Works yard prior to washing. This debris is promptly scraped from the pavement and equipment is then washed in a location where the smaller debris will be captured by an inlet filter basket or a catch basin.

Measurable Goal(s): Implement good housekeeping practices at Village facilities. Inspect and maintain the stormwater management system to prevent stormwater pollution from municipal operations.

Milestones, 2018: **Sweep Village streets and the pavement in the Public Works Yard regularly. Keep material storage piles covered. Perform fleet maintenance indoors. Clean storm sewer pipes, manholes, and catch basins.**

BMP Status: Good housekeeping practices continued to be used at Village facilities. During the reporting period, the Village cleaned 129,917 feet of storm sewer, approximately 365 inlets, and 1,081 manholes and repairing/replacing 61 structures. The Village also swept approximately 2,712 curb miles of streets.

C. INFORMATION AND DATA COLLECTION RESULTS

Monitoring was performed. Four high-priority outfall locations were sampled after a rain event. The results are shown below.

The Village is a part of MWRD’s regional chloride reduction work group that monitors local waterbodies for chloride concentrations.

Wet Weather Sampling Results (3/27/17)				
Parameter (units)	Concentrations (U is undetectable)			
	Outfall 09N-01	Outfall 04E-01	Outfall 014-01	Outfall 07F-04
Time	10:27 AM	11:02 AM	12:43 PM	1:30 PM
Flow (cfs) F	0.03	0.02	0.01	0.01
Temperature (degress F) F	49.4	49.8	50.3	50.1
Dissolved Oxygen (mg/l) F	N/A	N/A	N/A	N/A
pH (SU) F	7.2	7.2	7.2	7.2
Nitrate (mg/l)	0.916	1.21	1.12	1.06
Nitrite (mg/l)	U	U	U	U
Ammonia (mg/l)	U	0.124	U	0.128
Conductivity (umhos/cm)	1060	1300	1260	1280
Total Kjeldahl Nitrogen (mg/l)	0.524	0.867	0.738	0.879
Phosphorus (mg/l)	0.0879	0.162	0.227	0.147
Total Dissolved Solids (mg/l)	852	988	956	964
Total Suspended Solids (mg/l)	5	25	16	13.5
Fecal Coliform (no/100 ml)	300	1400	700	1200

D. SUMMARY OF NEXT REPORTING PERIOD STORMWATER ACTIVITIES

A summary of the stormwater activities that are planned to be performed during the next reporting period (March 2018 – February 2019) is shown below:

BMP No. A1 Distributed Paper Material

Measurable Goal(s): Distribute NPDES related newsletter articles at least twice per year. Include information regarding the impact of climate change on stormwater pollution.

Milestones, 2019: **Distribute two newsletter articles to all Village residents.**

BMP No. A3 Public Service Announcement

Measurable Goal(s): Annually announce opportunities for residents to reduce chemical pollution in natural resources.

Milestones, 2019: **Announce at least one waste collection event to all Village residents.**

BMP No. A6 Other Public Education

Measurable Goal(s): Update the Village web site with educational materials annually.

Milestones, 2019: **Update the Village web site, including information about the impact of climate change on stormwater pollution.**

BMP No. B2 Educational Volunteer

Measurable Goal(s): Organize and publicize annual volunteer work days to involve the public in the stormwater management program.

Milestones, 2019: **Organize and publicize at least one volunteer work day.**

BMP No. B7 Other Public Involvement

Measurable Goal(s): Discuss stormwater pollution during at least one public meeting, allowing for public input. Encourage residents to manage stormwater on their property by installing rain gardens and rain barrels. Investigate possible environmental justice areas and take appropriate steps to address such areas.

Milestones, 2019: **Hold a public meeting that includes discussion of stormwater pollution topics. Continue the rain garden cost sharing**

program. Identify any potential environmental justice areas within the Village.

BMP No. C1 Storm Sewer Map Preparation

Measurable Goal(s): Update the Storm Sewer Map at least annually.

Milestones, 2019: **Update the Storm Sewer Map.**

BMP No. C2/C3/C4/C5/C7 Illicit Discharge Detection and Elimination

Measurable Goal(s): Enforce the Sewer Use Ordinance to regulate discharges to the storm sewer system. Collect samples from the four selected high-priority locations and measuring ambient water quality as required by the current general permit. Field tests will be conducted at each outfall to determine the temperature, pH, dissolved oxygen, total alkalinity, and total hardness of the water flowing from the outfall. Samples will be collected at each outfall and the samples will be tested in a laboratory for chloride, nitrate, nitrite, ammonia, conductivity, total Kjeldahl nitrogen, phosphorus, total dissolved solids, total suspended solids, and fecal coliform.

Milestones, 2019: **Monitor outfalls, respond to complaints, trace all suspicious discharges to the storm sewer system, and require removal of all illicit discharges. Take ambient water quality samples within 48 hours of a precipitation event greater than or equal to ¼-inch in a 24-hour period.**

BMP No. C9 Public Notification

Measurable Goal(s): Annually notify the public regarding the consequences of illicit discharges to the storm sewer system.

Milestones, 2019: **Publish articles in the newsletter and post articles on the web site regarding illicit discharges.**

BMP No. D1/D2/D4/D6 Construction Site Runoff Control

Measurable Goal(s): Enforce the Soil Erosion and Sediment Control Ordinance and the Engineering Standards Manual to prevent stormwater pollution resulting from construction site runoff.

Milestones, 2019: **Review site plans for appropriate BMPs, inspect construction sites for proper installation and maintenance of the BMPs, and respond to complaints.**

BMP No. E2/E3/E4/E5/E6 Post-Construction Runoff Control

Measurable Goal(s): Enforce the Site Plan Review Ordinance and the Engineering Standards Manual to prevent stormwater pollution resulting from post-construction runoff.

Milestones, 2019: **Review site plans for appropriate BMPs, inspect construction sites for substantial conformance with the approved site plans, and ensure long-term maintenance of the BMPs.**

BMP No. F1 Employee Training Program

Measurable Goal(s): Annually train Public Works maintenance staff on stormwater pollution prevention for municipal operations and illicit discharge detection and elimination. Incorporate training for Village staff into the quarterly compliance meetings. Present the DVD *NPDES Phase II – Training for Municipal Employees* to Public Works maintenance staff annually, along with a written exam.

Milestones, 2019: **Incorporate stormwater pollution prevention training into regular employee training.**

BMP No. F2/F3 Pollution Prevention/Good Housekeeping

Measurable Goal(s): Implement good housekeeping practices at Village facilities. Inspect and maintain the stormwater management system to prevent stormwater pollution from municipal operations.

Milestones, 2019: **Sweep Village streets and the pavement in the Public Works Yard regularly. Keep material storage piles covered. Perform fleet maintenance indoors. Clean storm sewer pipes, manholes, and catch basins.**

E. NOTICE OF RELIANCE ON ANOTHER GOVERNMENT ENTITY

The Village is not relying on any other government entity to satisfy permit obligations. The Village is participating within MWRD's regional chloride monitoring program that collects local chloride concentration data.

F. CONSTRUCTION PROJECTS CONDUCTED DURING REPORTING PERIOD

For the period from March 2017 to February 2018, the Village initiated and/or completed the following construction projects:

- 2017 Street Resurfacing
- 2017 Sewer Lining
- Happy Hollow/Rebecca Reconstruction Phase 2
- Harlem Ave Water Main and Resurfacing
- Glenview Downtown Streetscape
- Parkview Reconstruction
- Linneman Reconstruction
- Glenview/Waukegan Watermain Improvements
- Queens Road Reconstruction
- Becker Road Improvement Project
- Lyons Stormwater Improvement Project
- Circles Reconstruction