



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

## **VILLAGE OF PALATINE, ILLINOIS MS4 STORMWATER MANAGEMENT PLAN 2017**

The Village of Palatine has a General Permit from the Illinois Environmental Protection Agency (IEPA) for discharges from its municipal separate storm sewer system (MS4). The General Permit requires the Village to develop, implement, and enforce a stormwater management program (MS4 Program) designed to prevent and reduce pollution from its storm sewer system. A Notice of Intent (NOI) to comply with the General Permit has been developed and submitted to IEPA. The NOI, along with this plan, is posted to the Village website for public information and review.

Stormwater runoff from the Village flows into the following local waterbodies:

- Buffalo Creek Tributary A
- Salt Creek – East Branch
- Salt Creek – West Branch
- Lake Louise
- Peregrine Lake
- Virginia Lake

This Stormwater Management Plan (Plan), along with the MS4 annual program report and NOI, is designed to provide Illinois EPA and Village residents with a better understanding of the control measures managed and implemented to meet permit requirements and water quality goals with local waterbodies.

### **MS4 Program Administration**

Village ordinances have been developed to provide the authority to implement MS4 Permit requirements. The Public Works Department is the lead department for MS4 program implementation. Public Works Department staff work with other departments to implement the Plan. Village residents can provide input on this Plan and the overall MS4 program at regularly scheduled public meetings, as well as directly to the Public Works Department.

The Village evaluates the effectiveness of program implementation activities annually and provides an annual report (Annual Facility Inspection Report) by June 1 of each year. Annual reports are kept on the Stormwater Management Program page of the Village's website for a period of 5 years.

This Stormwater Management Plan describes the pollution prevention practices that comprise the Village's stormwater management program and the Village departments responsible for plan implementation. The MS4 Permit requires implementation of control measures and best management practices (BMP) in six programmatic areas:

- Public Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management
- Pollution Prevention/Good Housekeeping

The plan also includes program effectiveness assessment and regulatory reporting activities that support implementation of the MS4 Program. The activities implemented for each Stormwater Management Plan element are described below.

#### **Public Education and Outreach**

The Public Works Department is responsible for implementing Public Education and Outreach activities. These activities include:

- Newsletter - The Village publishes a newsletter that is mailed to all residents and businesses. The newsletter periodically includes articles on stormwater quality topics, including the impacts of stormwater discharges on water bodies; the steps that the public can take to reduce pollutants in stormwater runoff; and the hazards associated with illegal discharges and improper disposal of wastes.
- E-Newsletter – The Village sends a weekly e-newsletter to residents that subscribe. The e-newsletter occasionally includes articles related to stormwater management, similar to the Village's monthly newsletter.
- Website - The Village maintains a website with information about the Village government, information about Village services and upcoming events. This website also includes information for residents on stormwater quality, flooding, rain gardens and other stormwater topics.
- Community Events – Village staff participate in community events and distribute stormwater quality information to residents.

#### **Public Involvement and Participation**

The Public Works Department is responsible for implementing Public Involvement and Participation activities. These activities include:

- Public Involvement - The Village seeks public input on the MS4 Program and this plan during at least one annual public meeting (Beautification Commission Meeting or other).
- Water Quality Concern Reporting – Residents can report instances of pollution or suspected pollution by contacting the Village’s Public Works Department at (847) 705-5200.

### **Illicit Discharge Detection and Elimination**

The Public Works Department is responsible for implementing Illicit Discharge Detection and Elimination activities. These activities include:

- Storm Sewer System Map – The Village maintains an updated map of the storm sewer system, which shows outfalls that discharge stormwater to ponds, lakes, and streams in the Village.
- Village Code of Ordinances – The Illicit Discharge and Connection Ordinance regulates the discharge of pollutants into the drainage system, prohibits illegal connections to the storm sewer system, and establishes the Village’s legal authority to ensure compliance.
- Stormwater Outfall Screening – Each year the Village inspects its storm sewer outfalls for evidence of illicit discharges. Suspicious discharges are traced to their source and appropriate steps are taken to eliminate any illicit discharges.

### **Construction Site Stormwater Runoff Control**

Both the Village Public Works Department and the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) are responsible for implementing Construction Site Stormwater Runoff Control activities. These activities include:

- Cook County Watershed Management Ordinance – MWRDGC enforces the Watershed Management Ordinance throughout Cook County. Article 4 of this Ordinance addresses the reduction in pollutants in stormwater runoff from regulated land disturbing activity. It states that appropriate erosion and sediment control practices must be utilized on all regulated development sites, and waste generated as a result of site development must be managed properly. Article 10 allows for the inspection of regulated development sites.
- Village Code of Ordinances – Appendix B of the Code of Ordinances is the regulatory mechanism used by the Village to require erosion and sediment controls on construction sites. The Village reviews proposed site plans prior to issuing permits for development. Ongoing projects are inspected regularly to ensure conformance with the approved site plan. Insufficient erosion and sediment control measures are addressed promptly.

### **Post-Construction Stormwater Management**

Both the Village Public Works Department and the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) are responsible for implementing Post-Construction Stormwater Management activities. These activities include:

- Cook County Watershed Management Ordinance – MWRDGC enforces the Watershed Management Ordinance throughout Cook County. Article 5 of this Ordinance addresses the volume and rate of runoff from regulated development sites. Article 9 requires a maintenance plan for the perpetual maintenance of stormwater management systems for regulated development.
- Village Code of Ordinances – Appendix B of the Code of Ordinances is used to address post-construction runoff from new development and re-development. The Village reviews proposed site plans prior to issuing permits for development. Ongoing projects are inspected regularly to ensure conformance with the approved site plan. All stormwater storage facilities constructed as part of a private development remain under private ownership and are maintained by the owner.

### **Pollution Prevention/Good Housekeeping**

The Public Works Department is responsible for implementing Pollution Prevention/Good Housekeeping activities. These activities include:

- Employee Training – The Village provides regular stormwater pollution prevention training to staff. Training topics include best management practices that prevent stormwater pollution resulting from municipal operations.
- Street Sweeping – The Village sweeps all curbed and downtown streets periodically each year. Street sweepings are hauled to a licensed waste facility.
- Inspection and Maintenance – Stormwater detention facilities and catch basin are visually inspected on a regular basis. Maintenance is performed on the storm sewer system when necessary.
- Material Storage – Fuels and other chemicals are stored in appropriate containers to prevent contact with stormwater runoff. Road salt and other municipal operations materials are stored under permanent cover.
- Fleet Maintenance and Cleaning – Maintenance and cleaning are performed inside the Combined Service Facility where floor drains are connected to triple basins and the sanitary sewer system, rather than the storm drain system.
- Landscaping – Pesticides and herbicides are only applied on Village property by trained and licensed applicators.

### **Effectiveness Assessment**

The Public Works Department is responsible for assessing the effectiveness of this plan and the Village's overall MS4 Program. The pollution prevention measures and best management practices implemented by the Village are evaluated for effectiveness by department management. The Village is a member of the DuPage River Salt Creek Workgroup, which regularly collects water quality samples at various locations throughout the local watershed. Analysis is performed for a range of pollutants commonly found in stormwater runoff.

## **Regulatory Reporting**

The Public Works Department is responsible for performing the regulatory reporting requirements of the MS4 permit. These activities include:

- Notice of Intent – The term of the Village’s General Permit from the IEPA is five years. At the end of each permit term, the Village submits a Notice of Intent (NOI) to comply with the conditions of the General Permit to the IEPA. This NOI describes the practices the Village intends to implement in order to meet the requirements of the MS4 General Permit.
- Annual Report – Each year the Village submits a report to the IEPA documenting its MS4 Program implementation activities, any changes in the plan, and the Village’s compliance status. The annual report is posted on the Village’s website for public information and review.

## **Contacts and Additional Information**

For questions or additional information on this Plan or implementation of the MS4 program, or to report water quality issues within the Village, contact the Public Works Department at (847) 705-5200.

Additional MS4 Permit program information can be found at IEPA’s MS4 webpage:

<http://www.epa.illinois.gov/topics/forms/water-permits/storm-water/ms4/index>