



VILLAGE OF Paddock LAKE, WISCONSIN STORMWATER MANAGEMENT PLAN

The Village of Paddock Lake holds a General National Pollutant Discharge Elimination System (NPDES) Permit for stormwater discharges from its Municipal Separate Storm Sewer System (MS4 Permit). The MS4 permit requires that the Village develop, implement, and enforce a stormwater management program designed to reduce the discharge of pollutants from its stormwater system to the maximum extent practicable to protect water quality.

Stormwater from the Village ultimately flows into the Des Plains River Watershed. This Stormwater Management Plan (Plan), along with the annual program report and Notice of Intent to comply with the stormwater permit, is designed to provide Wisconsin Department of Natural Resources and Village residents with a better understanding of the control measures managed and implemented to meet permit requirements and water quality goals.

Program Administration

Village ordinances have been developed to provide the authority to implement MS4 requirements. The Building and Zoning Department is the lead for MS4 program implementation. Building and Zoning staff work with other departments and other Village staff to implement the plan. Village residents can provide input on this plan and the overall MS4 program at monthly Village Board meetings, as well as directly to the Building and Zoning Dept. An overview of the MS4 plan is provided annually.

The Village evaluates the effectiveness of program implementation activities annually and provides an annual report to the WDNR. Annual reports are kept on the Village website for a period of five (5) years.

Water quality monitoring is performed to gauge the effectiveness of MS4 program implementations. Village staff perform monitoring of outfalls at locations depicted on the Village stormwater maps. The Village also participates in the Des Plains Watershed Coalition for regional water quality coordination. Village staff also evaluates Village owned and managed facilities,

maintenance practices, and drainage systems outfalls to assess the effectiveness of this plan and the overall stormwater program.

The MS4 permit requires implementation of control measures and Best Management Practices (BMP) in six (6) programmatic areas:

1. Public Education and Outreach
2. Public Participation/Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff and Control
5. Post-Construction Runoff Control
6. Pollution Prevention/Good Housekeeping

The management practices and activities performed by the Village within each of the program areas are described below.

1. Public Education and Outreach

The Village publishes stormwater pollution prevention articles in its resident's newsletter and provides brochures at the Village administration counter. These semi-annual articles provide information on the impacts of stormwater discharges on water bodies, measures the public can take to reduce pollutants in stormwater runoff, information on the general public hazards associated with illegal discharges and improper waste disposal and benefits of green infrastructure. Local recycling and special waste disposal events and sites are publicized in the newsletter and on the Village's website.

2. Public Participation/Involvement

The Village residents are encouraged to report issues, concerns and complaints regarding stormwater violations, construction site soil erosion and sediment control violations, maintenance issues and illicit discharges. In addition, residents are actively invited to participate in annual Earth Day activities, that include village wide trash and debris collection residents are further called upon to assist Village staff with proper yard waste disposal, e-waste collection, Right-of-way ditch line cleaning and maintenance. Residents can and are encouraged to provide input on this plan and stormwater issues at monthly Village Board of Trustees meetings, as well as directly to the Village Building and Zoning Department.

3. Illicit Discharge and Elimination

The Village has developed an inspection program to detect and eliminate illicit discharges into storm drains and local waterways. The Village has adopted and enforces the Illicit Discharge and Connection Ordinance, which provides the regulatory authority to detect, investigate and eliminate potential illicit discharges. The Village reviews the ordinance and updates its program, as necessary.

The Village has implemented a plan for detecting, tracing and removal of illicit discharges. The plan establishes the Village’s procedure for tracing illicit discharges identified through dry weather screening, regular storm sewer maintenance, public reporting, and E. coli water sampling. Spills are responded to by Public Works, Salem Fire Dept. (Village contract fire service) and Kenosha County Sheriff’s Dept. and notification to Wisconsin DNR and EPA based on situation.

Village Public Works and Building and Zoning staff inspect high priority storm sewer outfalls annually for evidence of potential illicit discharges. The Village has an existing storm sewer atlas that is used to locate and inspect outfalls. The atlas shows all of the Village’s outfalls and all receiving waters to which the Village’s separate storm sewer system discharges. The atlas is not GIS based at present time, the Village intends to revise the storm sewer atlas and convert to GIS in 2022.

4. Construction Site Runoff Control

The Village has adopted WDNR sponsored Stormwater Ordinances and Wisconsin Department of Safety and Professional Services (WSDPS) erosion control Administrative codes and ordinances to regulate Best Management Practices (BMP’s) at construction sites. The Village Building and Zoning Dept. has procedures in place that require the review of BMP’s for proposed developments, residential, commercial, and utility construction projects. The intent of these procedures is to reduce or prevent the discharge of pollutants from construction sites through the use of BMP’S. Public Works staff and Building Dept. staff investigate and address construction site deficiencies at the following intervals:

BMP REVIEW AND INSPECTION

Description	Village Action	Village Dept. Performing
Development plan review	Detailed review of BMP’S	Village consulting Engineers and Building and Zoning
Site Inspection	Prior to site disturbance	Building Dept.
Site Inspection	During each scheduled inspection	Building Dept.
Site Inspection	After rain and heavy wind events	Building Dept. and Public Works
Site Inspection	At final Inspection	Building Dept.

In addition to detailed plan review and inspections of construction sites and developments conducting land disturbing activities, the Village incorporates BPM’s as exhibits in Developer Agreements.

5. Post- Construction Runoff Control

The Village has adopted the WDNR Stormwater model Ordinances controlling post-construction runoff along with requirements incorporated into recorded Developers

Agreements, used to regulate, and enforce if necessary post-construction stormwater management requirements and water quality requirements for new development and re-development.

In addition, Village consulting Engineering Standards are used to address post-construction runoff from new developments 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 and recorded Developers Agreements. All stormwater storage facilities constructed as part of a private development remain under private ownership and are maintained by landowner.

6. Pollution Prevention/Good Housekeeping

The Village implements an operation and maintenance program designed to prevent or reduce the discharge of pollutants from streets, public lands, Public Works facilities and storm sewer systems. The Public WORKS Department conducts regular employee training for municipal operations and safety. Annual training is provided to educate staff on pollution prevention and reduction of stormwater pollution from municipal activities. Contractors performing work for the Village are also required to be trained. Training includes the following:

Public Works Training

Description	Audience	Training Activity
Trash and Debris management	All Village staff	Proper disposal methods
Hydrocarbon management	Public Works	Containment and proper disposal
Spill Prevention and reporting	Public works	Containment, prevention, and reporting
Road salt use	Public Works	Calibration of equipment and conservation
Material Storage	All Village staff	Proper storage and handling practices
Best Management Practices	Public works	Proper use of BMP's
Washing of Village equipment	Public Works	Washing in designated wash bays

The village has many operational policies designed to prevent stormwater pollution associated with municipal operations. These policies have been incorporated into Municipal Stormwater Pollution Prevention Program. Annual site inspection reports are documented in various files within the Public Works Department and the Village Building and Zoning Dept. the program is evaluated on an annual basis to determine its effectiveness and is modified if necessary.

The Village has formalized its storm sewer systems inspection and maintenance program. The program includes regular ditch maintenance, regular cleaning and maintenance of storm sewer structures, and semi-annual waterway debris removal and annual Village wide trash collection. The Village has operational policies designed to prevent storm water pollution associated with municipal operations.

- Road salt is stored on a paved surface and within a permanent weather resistant building to protect salt from precipitation and runoff. Village staff receives specific training on best management practices for snow and ice removal. An emphasis is placed on limiting the amount of salt use.
- Fertilizer, pest control and yard maintenance contractors are encouraged to use best management practices and to apply chemical at the appropriate time and rates.
- Street sweeping, catch basin cleaning, and system cleaning are performed to remove accumulated sediment and pollutants from system.
- The Village Department of Public Works stores diesel fuel and gasoline for its vehicles and equipment in double wall tanks, Staff is trained annually on proper dispensing and spill prevention.
- Used vehicle and equipment oil and fluids are stored in secure leak proof tanks and containers and is periodically hauled away by recycling service.
- Material (gravel, dirt, and sand) bins have been designed and constructed to reduce runoff from facility material storage areas.
- Maintenance and washing of the Village vehicles and equipment is performed in the village maintenance garage which drains to sanitary sewer system.
- Waste and recyclables are stored in designated containers and areas for proper disposal.

Contacts and Additional Information

To report water quality issues within the Village, contact the Village Building and Zoning Department at 262-843-3617. If after normal business hours, call the Kenosha County Sheriff's Department non-emergency number 262-843-2371.

For questions or additional information on this plan or implementation of the MS4 program, contact Tim Popanda, Village Administrator at 262-843-3617

Respectfully submitted by: Timothy A. Popanda