

## City of Markham, Illinois

### Stormwater Management

#### Plan

#### Introduction

The City of Markham has a General Permit from the Illinois Environmental Protection Agency (IEPA) for discharges from its municipal separate storm sewer system. The General Permit requires the City to develop, implement, and enforce a stormwater management program designed to prevent and reduce pollution from its storm sewer system to the maximum extent practicable. This document describes the pollution prevention practices that comprise the City's stormwater management program.

#### A. Minimum Control Measures (MCMs):

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

#### Best Management Practices (BMPs):

##### **A. Public Education and Outreach**

- A.1 Distributed Paper Material
- A.2 Speaking Engagement
- A.3 Public Service Announcement
- ✓ A.4 Community Event
- A.5 Classroom Education Material
- ✓ A.6 Other Public Education

##### **B. Public Participation/Involvement**

- B.1 Public Panel
- B.2 Educational Volunteer
- B.3 Stakeholder Meeting
- ✓ B.4 Public Hearing
- B.5 Volunteer Monitoring
- B.6 Program Coordination
- ✓ B.7 Other Public Involvement



### **C. Illicit Discharge Detection & Elimination**

- ✓ C.1 Storm Sewer Map Preparation
- C.2 Regulatory Control Program
- C.3 Detection/Elimination Prioritization
- C.4 Illicit Discharge Tracing Procedures
- C.5 Illicit Source removal Procedures
- C.6 Program Evaluation & Assessment
- ✓ C.7 Visual Dry Weather Screening
- C.8 Pollution Field Testing
- ✓ C.9 Public Notification
- C.10 Other Illicit Discharge Controls

### **D. Construction Site Runoff Control**

- ✓ D.1 Regulatory Control program
- ✓ D.2 Erosion & Sediment Control BMPs
- D.3 Other Waste Control Program
- ✓ D.4 Site Plan Review Procedures
- D.5 Public Information Handling Procedures
- ✓ D.6 Site Inspection/Enforcement Procedures
- D.7 Other Construction Site Runoff Controls

### **E. Post-Construction Runoff Control**

- E.1 Community Control Strategy
- ✓ E.2 Regulatory Control Program
- E.3 Long term O&M Procedures
- ✓ E.4 Pre-Construction Review of BMP Designs
- E.5 Site Inspections During Construction
- ✓ E.6 Post-Construction Inspections
- ✓ E.7 Other Post-Construction Runoff Controls

### **F. Pollution Prevention/Good Housekeeping**

- ✓ F.1 Employee Training Program
- ✓ F.2 Inspection & Maintenance Program
- F.3 Municipal Operations Storm Water Control
- ✓ F.4 Municipal Operations Waste Disposal
- ✓ F.5 Flood Management/Assess Guidelines
- ✓ F.6 Other Municipal Operations Controls

## **Public Education and Outreach (MCM 1)**

### **A.4. Community Event- "Spring Clean Up Week"**

Residents and businesses are encouraged to participate in the City's efforts to remove debris and other items that may impact the City's stormwater systems. The spring cleanup week is held annually throughout the City.



#### A.6. Other Public Education

The City's website will include information about the impacts of stormwater discharges on waterbodies, stormwater quality within the City's limits, and links to programs available to residents/businesses from other organizations/agencies. Information regarding public services such as garbage collection, yard waste pickup, sewer systems, etc. will be posted.

### **Public Participation/Involvement (MCM 2)**

#### B.4. Public Hearing

The City will present its MS4 program, stormwater, flooding, pollution control etc. on an annual basis during one of its regularly scheduled Council meetings that is open to the public. The meeting will be publicized on the City's website and minutes will be taken.

#### B.7 Other Public Involvement

The City will involve the public in a cleanup event on an annual basis. Information for this annual cleanup event will be made available on the City's website to allow volunteer groups and residents to partake in the event. Published information related to these programs and the public shall be made available to all.

#### Environmental Justice Areas

The USEPA identifies potential environmental justice area based on the percentage of low-income and/or minority populations compared to the statewide average. Areas that have greater than twice the statewide average may be considered a potential environmental justice area. The following web application was used to identify environmental justice areas within the City's jurisdiction <https://ejscreen.epa.gov/mapper/index.html>. The screening was completed at the census block group level, and it showed 2 block group #s (170318256001 and 170318249001) that qualify as environmental justice areas based on Environmental Justice Indexes and Socioeconomic indicators.

The City will complete the environmental justice screening annually and make efforts to ensure that BMP efforts are targeted at these areas. Results of the environmental justice screening effort will be shared in the Annual public hearing meetings.

### **Illicit Discharge Detection and Elimination (MCM 3)**

#### C.1 Storm Sewer Map Preparation

The City has contracted with RJN to digitize their storm sewer atlas into a GIS format. The GIS map will show locations of outfalls and will be updated on a periodic basis if budget allows. The storm sewer atlas will show locations of all the outfalls and names of the receiving waters that receive discharges.

#### C.7 Visual Dry Weather Screening

The City will develop a visual screening program that will consist of inspecting outfalls and logging the results on a form. The goal is to inspect the outfalls on an annual basis.

#### C.9. Public Notification

Electronics recycling is offered by the City and advertised on City website. Additionally, the City website has a form that residents and businesses can report any concern by either calling the City Hall or emergency 911.



## **Construction Site Runoff Control (MCM 4)**

### D.1 Regulatory Control Program

Article 4 (Requirements for Erosion and Sediment Control) of the Watershed Management Ordinance (WMO) regulates erosion and sediment control projects within the City. Any new development that is reviewed by the City Engineering Consultant involves a thorough review of the erosion control plans in accordance with these requirements.

### D.2 Erosion and Sediment Control BMPs

Erosion and sediment Control BMPs are required and enforced through the plan review process for developments in the City. Required site BMPs are reviewed for effectiveness during the construction.

### D.4 Site Plan review Procedures

Engineering site review of development plans will be reviewed by City engineering consultants under local and county requirements especially regarding stormwater and erosion and sediment control measures. Projects that disturb greater than 1 acre will be required to submit a Notice of intent prior to construction. A SWPPP is required with plan sets.

### D.6 Site Inspection/Enforcement Procedures

Weekly inspection reports will be required from developers of all active projects within the City during construction. Inspections for erosion control devices for construction projects shall follow IEPA and MWRD requirements. The inspections will typically be documented on appropriate forms and all deficiencies observed will be addressed by the Contractor typically within 7 business days.

## **Post-Construction Runoff Control (MCM 5)**

### E.2 Regulatory Control Program

The City continues to enforce this through the plan review process. Additionally, Article 4 of the Watershed management Ordinance (WMO) by the MWRD regulates erosion and sediment control of projects.

### E.4 Pre-Construction Review of BMP Designs

Pre-construction review of BMPS is performed during the plan review process to ensure all proposed BMPS will function properly. Consideration will be given for any changes in the requirements warranted due to new or emerging technologies.

### E.5 Site Inspections During Construction

Weekly inspection reports of erosion control devices will be required from developers of active projects. The inspections will be documented on appropriate forms and any deficiencies noted will be emailed to contractor/developer to address the deficiencies. Periodic inspections by the City may be performed during the construction phase.

### E.6 Post Construction Inspections

Post-construction BMPS and facilities including storm sewer systems, grading, and stormwater



detention facilities will be inspected after the sites are completed and the request for the acceptance of the development is received. Final inspections will be part of any newly constructed development.

## **Pollution Prevention/Good Housekeeping (MCM 6)**

### F.1 Employee Training Program

Continuing education/training for appropriate employees for pollution prevention measures in salt spreading, snow-plowing procedures for disposal of oil, salt storage, fuel dispensing and handling of solvents shall be prioritized. This continuing education may be in the form of various videos applicable to the subject matter.

### F.2 Inspection & Maintenance Program

Routine inspection and maintenance of City streets are part of the typical Public Works responsibilities. This includes street sweeping, vacuuming, jetting, or repair, and debris, branch, and leaf collection. The City plans to develop a plan for the routine inspection and maintenance of the storm sewers, storm inlets/catch basins, ditches, swales as part of the typical Public Works responsibilities.

### F.4 Municipal Operations Waste Disposal

The BMPs for municipal operations for waste control will be reviewed for effectiveness and audited for compliance with the program. Revisions will be made as necessary. Typical municipal operations will continue to adhere to established and known waste disposal measures. Fluids such as oil and coolant from vehicle maintenance are collected and disposed of according to State requirements. Spilled fuel is mopped up with an absorbent product or similar material and disposed of properly when accidents happen.

### F.5 Flood Management/Assess Guidelines

The City code includes flood Regulations which enforce floodplain and flood hazard regulations for any development in or near to floodplains. The WMO is also applicable and enforced with new developments. Development plans will be reviewed for compliance with applicable ordinances and policies regarding flood management and for compliance with IDNR-OWR and FEMA regulations.

### F.6 Other Municipal Operations Controls

Equipment Maintenance, Cleaning, and Material Storage – All maintenance and washing for the Public Works Department fleet is done on Public Works parking lot. Road salt is stored in a covered shelter. Chemicals are stored in tanks/containers at Public Works. Excess spill from Public Works projects is either taken immediately to a private waste disposal site. Lubricant and oil spills resulting from equipment maintenance are cleaned up using oil absorbing compounds to the maximum extent possible. Storm debris is removed as needed or as requested by the residents.

### **Reporting:**

- Notice of Intent- The term of the City's General Permit from the IEPA is 5 years. At the end of each permit term, the City submits a Notice of Intent IEPA to comply with the conditions of the



General Permit. This Notice of Intent describes the practices the City intends to implement in order to meet the conditions of the General Permit.

- Annual Report- Each year, the City submits a report to the IEPA documenting its status of compliance with the conditions of the General Permit.

