

Village of Homewood

IEPA NPDES General Permit No. ILR40-0357

Storm Water Management Plan (SWMP)

For discharges from Small Municipal Separate Storm Sewer Systems (MS4)

March 11, 2020

A. General Information

1. Storm Water Management Program Contact:

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2. State Authority Contact:

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Permit Section
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B. Governmental entities in which MS4 is located:

Cook County

C. Names of known receiving waters:

1. Butterfield Creek
2. Cherry Creek
3. Prairie Lakes
4. Dolphin Lake

D. Storm Water Management Program Requirements:

1. The Village of Homewood must develop, implement and enforce a storm water management program designed to reduce the discharge of pollutants from [its] small municipal separate storm sewer system (MS4) to the maximum extent practicable (MEP), to protect water quality and satisfy the appropriate water quality requirements of the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act. The storm water

management program must include the 6 Minimum Control Measures (MCMs). The U.S. Environmental Protection Agency's National Menu of Storm Water Best Management Practices

(<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm>) and the most recent version of the Illinois Urban Manual should be consulted regarding the selection of appropriate BMPs.

2. For further details on the requirements for each of the 6 MCMs, please refer to the latest version of the General NPDES Permit No. ILR40.

E. 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)

MCM 1

1. Public Education and Outreach

A1: Distributed Paper Material (Newsletters and Brochures)

1. Description of BMP:
The Village newsletter, The Village Key, will be used to provide storm water and cleanup information on a variety of topics to the public. Public Works items, duties and concerns may also be highlighted from time to time. The newsletters and event flyers will be posted on the Village website.
2. Target Audience: Village residents and business owners
3. Measureable Goals:
 - a. Quantity of articles
 - b. Frequency of distribution
 - c. Public awareness
4. Schedule:
 - a. Ongoing
 - b. Articles to be included at least four times per year
 - c. Begun in previous cycles

A3: Public Service Announcement (Cable TV)

1. Description of BMP:
The Village's local Cable TV station will be used to post stormwater, flood management and Public Works information on special events. The notices will be run daily for two weeks to promote an event.
2. Target Audience: Village residents
3. Measureable Goals:
 - a. Number of notices
 - b. Public awareness
4. Schedule:
 - a. Ongoing
 - b. Runs 24/7
 - c. Begun in previous cycles

A6: Other Public Education (Website)

1. Description of BMP:

The Village website will be used throughout the year to post a variety of stormwater, flooding and public works information. Information regarding public services such as street sweeping, storm sewer cleaning, etc. will be posted.

2. Target Audience: Village residents and business owners
3. Measureable Goals:
 - a. Website hits and usage
 - b. Public awareness
4. Schedule:
 - c. Ongoing
 - d. To be used throughout the year
 - e. Begun in previous cycles

MCM 2

2. Public Involvement/Participation

B4: Public Meeting

1. Description of BMP:
The Village will hold Stormwater Committee meetings quarterly that will be used to inform the public about such topics as the MS4 program, stormwater, flooding, pollution control, etc. The Stormwater Committee will be comprised of residents, a Village Board Trustee and a Village staff liaison. The forum for the meeting will be a week day in the evening in the Village board room. The meetings will be publicized on the Village website and minutes will be taken.
2. Target Audience: Village residents and business owners
3. Measureable Goals:
 - a. Number of participants
 - b. Public awareness
 - c. Meeting agenda and minutes
4. Schedule:
 - a. Ongoing
 - b. Hold quarterly meetings
 - c. Begun in previous cycles

B7: Other Public Involvement (Annual Cleanup Event)

1. Description of BMP:
As part of a "Go-Green" initiative, the Village will involve the public in environmental awareness via its Tree City designation and Annual Cleanup event. The Village website will be used to publish information related to these programs and other public awareness items.
2. Target Audience: Village residents
3. Measureable Goals:
 - a. Number of articles published
 - b. Public awareness and involvement
4. Schedule:
 - a. Ongoing
 - b. Begun in previous cycles

MCM 3

3. Illicit Discharge Detection and Elimination

C1: Storm Sewer Map Preparation

1. Description of BMP:
The Village has a Storm Sewer Atlas that shows the location of all outfalls, numbers of the outfalls with unique identifies, shows the location and names of all receiving waters that receive discharges from the outfalls, shows storm structures and numbers them with unique identifies, and shows pipe sizes.
2. Measureable Goals:
 - a. Update storm sewer atlas
 - b. Review annually
3. Schedule:
 - a. Update the storm sewer atlas as soon as practicable
 - b. On a yearly basis, compile new updates to be added to the atlas
 - c. Perform file update (as needed)

C2: Regulatory Control Program (Ordinance)

1. Description of BMP:
The Village ordinance, Chapter 46 – Floods, includes portions that address issues related to stormwater conveyance. The Village will continue to enforce this ordinance and other development ordinances that include soil erosion and sediment control through its plan review process. The Village ordinances are posted on the Village website. The Village will periodically review the regulatory program and ordinance adequacy and make any updates or revisions as needed.
2. Measureable Goals:
 - a. Ordinance effectiveness
 - b. Current applicability
3. Schedule:
 - a. Ongoing enforcement of all Village ordinances
 - b. Review the regulatory program and ordinance adequacy in the third year of the permitting cycle
 - c. Perform file update (as needed) at least once every 5 years as needed

C7: Visual Dry Weather Screening

1. Description of BMP:

The dry weather screening program will consist of inspecting outfalls and logging the results on an appropriate inspection form. The target goal is that the Village outfalls are to be inspected each year.

2. Measureable Goals:

- a. Clean outfalls
- b. Inspection of outfalls every year

3. Schedule:

- a. Perform inspections in dry weather times throughout the year, but primarily in the months of May or June
- b. Outfall inspections to be performed every year

MCM 4

4. Construction Site Storm Water Runoff Control

D1: Regulatory Control Program (Soil Erosion and Sediment Control Ordinance)

1. Description of BMP:

The Village ordinance, Chapter 46 - Floods, regulates soil erosion and sediment control in runoff from construction sites. The Village continues to enforce this ordinance and other development ordinances through the plan review process. The Village ordinances are posted on the website. Article 4 of the Watershed Management Ordinance (WMO) used by MWRD is also in effect and regulates erosion and sediment control.

2. Measureable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

D2: Erosion and Sediment Control BMPs

1. Description of BMP:

Erosion and Sediment Control BMPs are required under current ordinances and these requirements are enforced through the plan review process. Required site BMPs will be reviewed for effectiveness. Consideration will be given for any changes in the requirements warranted due to new or emerging technologies.

2. Measureable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

D4: Site Plan Review Procedures

1. Description of BMP:

Development plans will continue to be reviewed under local and Cook County ordinances by Village Staff, 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 these plan sets.

2. Measureable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

D6: Site Inspection/Enforcement Procedures

1. Description of BMP:

Weekly inspection reports will be required from developers of active projects. Periodic or surprise audit inspections are conducted by the Village as needed as well as MWRD. The inspections will typically be documented on appropriate forms. Developers will be informed of any noted deficiencies in their site's erosion and sediment control measures. Copies of the documentation will be filed.

2. Measureable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic inspections will be conducted as deemed necessary depending on level of activity at a site and on weather conditions
- c. Inspection of sites for which the Village is responsible will be conducted weekly and after 1" or greater rain events

MCM 5

5. Post –Construction Runoff Control

E1. Regulatory Control Program (Soil Erosion and Sediment Control Ordinance)

1. Description of BMP:

The Village ordinance, Chapter 46 – Floods, regulates post construction runoff and is applied in conjunction with Erosion and Sediment Control, to control soil erosion and sediment control in runoff from construction sites. The Village continues to enforce this ordinance and other development ordinances through the plan review process. The Village ordinances are posted on the website. Article 4 of the Watershed Management Ordinance (WMO) used by MWRD is also in effect and regulates erosion and sediment control.

2. Measureable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

E3. Long Term O&M

1. Description of BMP:

Long Term Operation and Maintenance Procedures related to erosion and sediment control are required under the current ordinance and these requirements are enforced during the plan review process prior to construction.

2. Measureable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Periodic review of ordinance effectiveness and applicability

E4: Pre-Construction Review of BMP Designs

1. Description of BMP:
Erosion and Sediment Control BMPs are required under the current ordinance and these requirements are enforced through the plan process prior to construction. Required site CMPs will be reviewed for effectiveness. Consideration will be given for any changes in the requirements warranted due to new or emerging technologies.
2. Measureable Goals:
 - a. Ordinance enforcement
 - b. Reduced soil erosion and sediment
3. Schedule:
 - a. Ongoing enforcement
 - b. Periodic review of ordinance effectiveness and applicability

E5: Site Inspections During Construction

1. Description of BMP:
Weekly inspection reports will be required from developers of active projects. Periodic or surprise audit inspections will be conducted by the Village as needed during the construction process. The inspections will typically be documented on appropriate forms. Developers will be informed of any noted deficiencies in their site's erosion and sediment control measures. Copies of the documentation will be filed.
2. Measureable Goals:
 - a. Ordinance enforcement
 - b. Reduced soil erosion and sediment
3. Schedule:
 - a. Ongoing enforcement
 - b. Periodic inspections will be conducted as deemed necessary depending on level of activity at a site and on weather conditions
 - c. Inspections of sites for which the Village is responsible will be conducted weekly and after 0.5" or greater rain events

E6: Post-Construction Inspections

1. Description of BMP:
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.

Furthermore, the goal is to inspect the existing public and accessible private stormwater management systems throughout the year

2. Measureable Goals:

- a. Ordinance enforcement
- b. Reduced soil erosion and sediment

3. Schedule:

- a. Ongoing enforcement
- b. Developments will receive final acceptance and release of the Occupancy or Use Permit only after punch lists and any deficiencies are corrected. The developments will also be inspected before the expiration of the maintenance bond that is put in place after acceptance.
- c. Inspect existing systems throughout the year

MCM 6

6. Pollution Prevention and Good Housekeeping

F1: Employee Training Program

1. Description of BMP:

Appropriate employees will be provided training for pollution prevention measures, such as training in the use of salt spreading, distribution rates, proper snow-plowing, procedures for disposal of oil, salt storage, fuel dispensing and handling of solvents.

Appropriate employees will be provided refresher training or information to reinforce the established pollution measures in place. This may involve the use of various videos applicable to the subject matter.

2. Measureable Goals:

- a. Conduct at least one training session per year
- b. Informed staff

3. Schedule:

Summer or fall on an annual basis

F2: Inspection and Maintenance Program

1. Description of BMP:

Routine inspection and maintenance of Village streets, storm sewers, storm inlets, and catch basins, ditches, swales and stormwater detention facilities are part of the typical Public Works responsibilities. This includes street sweeping, storm structure vacuuming, jetting, or repair, and debris and branch cleanup after large storms. Systems and facilities are primarily under continuous surveillance rather than on a rigidly established schedule but at times some scheduling is involved.

2. Measureable Goals:

- a. Keep Village systems in top operating condition
- b. Reduced pollutants or contaminants

3. Schedule:

- a. Ongoing and as needed
- b. Street-sweeping – this will be performed in the spring and fall by a contractor hired by Public Works on main streets and side streets
- c. Inlets/Catch basins – will be inspected and maintained as needed throughout the year – needed repairs may be performed in-house or by a contractor – cleaning, when performed is generally performed during the months of April through October

- d. Storm sewers – will be inspected and cleaned or jetted on an as needed basis throughout the year – significant maintenance issues may not be able to be repaired immediately and may require special budgeting and scheduling depending on severity and impacts to drainage
- e. Detention ponds/basins – Village-owned detention basins will be inspected periodically and maintained as needed – debris will be cleared from outlets as necessary to promote proper drainage. Other detention basins will be similarly inspected and maintained if proper easements allow for Village access.
- f. Culverts – if under Village control, will be inspected and debris removed as needed
- g. Ditch and creek cleaning – will be inspected and cleaned as needed as staffing allows.

F3: Municipal Operations Storm Water Control

1. Description of BMP:
The BMPs for municipal operations for stormwater control will continue to adhere to established and known stormwater control measures. Revisions will be made as necessary.
2. Measureable Goals:
 - a. Program effectiveness
 - b. Program compliance
 - c. Reduced pollutants or contaminants
3. Schedule:
 - a. Ongoing
 - b. Yearly review to take place in February or March

F4: Municipal Operations Waste Disposal

1. Description of BMP:
The BMPs for municipal operations for waste control will be reviewed for effectiveness. Revisions will be made as necessary. Typical municipal operations will continue to adhere to established and known waste disposal measures. Waste disposal is handled through a contracted disposal service. Fluids such as oil, brake fluid and coolant from vehicle maintenance are collected and disposed of according to typical methods as mentioned above. The Public Works garage triple basin is routinely cleaned according to typical procedures. Spilled fuel is mopped up with an absorbent product or similar material and disposed of properly.
2. Measureable Goals:
 - a. Program effectiveness
 - b. Program compliance

- c. Reduced pollutants or contaminants

- 3. Schedule:

- a. Ongoing
- b. Yearly review
- c.

F5: Flood Management/Assessment Guidelines

- 1. Description of BMP:

The Village 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 with regard to flood management and for compliance with IDNR-OWR and FEMA regulations. Where applicable, developers will be required to submit for and obtain a Letter of Map Revision (LOMR) from FEMA.

- 2. Measureable Goals:

- a. Reduced flooding and flood reduction

- 3. Schedule:

- a. Ongoing
- b. Development reviews as needed by Village Engineer

F. Monitoring, Recordkeeping and Reporting:

- 1. Monitoring:

Monitoring shall include at least annual monitoring of receiving waters upstream and downstream of the MS4 discharges, use of indicators to gauge the effects of stormwater discharges on the physical/habitat-related aspects of the receiving waters, and/or monitoring of the effectiveness of the BMPs.

- 2. Recordkeeping:

- a. The Village must keep records required by the ILR40 permit for the duration of the permit.
- b. All records shall be kept onsite or locally available and shall be made accessible to the Agency (IEPA) for review at the time of an on-site inspection.
- c. Except as otherwise required by the ILR40 permit, the Village must submit its records to the IEPA only when specifically asked to do so.
- d. As required by the ILR40 permit, the following (at a minimum) must be posted on the Village website:
 - i. Current Notice of Intent (NOI)
 - ii. Storm Water Management Program/Plan (SWMP)
 - iii. Annual reports
- e. Storm sewer maps may be withheld for security reasons

3. Reporting:

- a. The Village must submit annual reports to the IEPA by the first day of June (June 1) for each year that the ILR40 permit is in effect.
- b. If the Village maintains a website, a copy of the annual report shall be posted on the website by June 1 of each year.
- c. Each report shall cover the period from March of the previous year through March of the current year. Please refer to the ILR40 permit for the list of items the annual report must include.