



# BARRINGTON

May 3, 2018

Illinois Environmental Protection Agency  
Water Pollution Control  
Compliance Assurance Section #19  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Re: NPDES Phase II – Year 15 Annual Report  
Village of Barrington MS4  
ILR400285

To Whom It May Concern:

On behalf of the Village of Barrington, please find attached a completed IEPA Annual Facility Inspection Report for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4) with supplemental information.

If you should have any questions or require additional information, please call our Environmental Consultant, Marcy Knysz at (847) 325-7300.

Sincerely,  
Village of Barrington

Michael Casper  
Production & Treatment Plant Superintendent

cc: Marcy Knysz, Manhard (900 Woodlands Parkway, Vernon Hills, IL 60061)  
Mark Werksman, Director of Public Works

VILLAGE HALL  
200 S. HOUGH ST.  
BARRINGTON, IL 60010  
(847) 304-3400

PRESIDENT & BOARD  
MANAGER'S OFFICE  
TEL (847) 304-3444  
FAX (847) 304-3490

COMMUNITY AND  
FINANCIAL SERVICES  
TEL (847) 304-3400  
FAX (847) 381-7506

DEVELOPMENT SERVICES  
TEL (847) 304-3460  
FAX (847) 381-1056

PUBLIC WORKS  
300 N. RAYMOND AVE.  
BARRINGTON, IL 60010  
TEL (847) 381-7903  
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PUBLIC SAFETY  
400 N. NORTHWEST HWY.  
BARRINGTON, IL 60010

POLICE  
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# 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 0285

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

Name: Village of Barrington - Public Works Mailing Address 1: 302 North Raymond Avenue

Mailing Address 2: \_\_\_\_\_ County: Lake

City: Barrington State: IL Zip: 60010 Telephone: (847) 381-7903

Contact Person: Mike Casper Email Address: mcasper@barrington-il.gov  
(Person responsible for Annual Report)

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

Village of Barrington Lake County

#### 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))**

Owner Signature:

Mike Casper

Printed Name:

4-27-18

Date:

Plant Superintendent

Title:

EMAIL COMPLETED FORM TO: [epa.ms4annualinsp@illinois.gov](mailto: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



**Village of Barrington  
ILR400285**

**MS4 Annual Facility Inspection Report**

**Illinois Environmental Protection Agency National Pollutant  
Discharge Elimination System, Phase II**

**Permit Year 15: March 2017 to February 2018**

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## Part A. MS4 Changes to Best Management Practices, Year 15

Information regarding the status of all of the BMPs and measurable goals described in the Village of Barrington's Storm Water Management Program (SWMP) is provided in the following table.

**Note:** X indicates BMPs that were implemented in accordance with the Village of Barrington's SWMP  
 ✓ Indicates BMPs that were changed during Year 15

Year 15 Village of Barrington	
<b>A. Public Education and Outreach</b>	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
	A.4 Community Event
	A.5 Classroom Education Material
X	A.6 Other Public Education
<b>B. Public Participation/Involvement</b>	
	B.1 Public Panel
	B.2 Educational Volunteer
	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
X	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection</b>	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation
X	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 15 Village of Barrington	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance
X	F.3 Municipal Operations Stormwater Control
	F.4 Municipal Operations Waste
	F.5 Flood Management/Assess
	F.6 Other Municipal Operations Controls

No changes were made to the BMPs described in the MS4's SWMP during Year 15.

## Part B. MS4 Status of Compliance with Permit Conditions, Year 15

### Stormwater Management Activities, Year 15

During Year 15, the Village of Barrington reviewed and revised its Storm Water Management Program (SWMP) to comply with the 2016 ILR40 permit conditions (which became effective March 1, 2016). The stormwater management activities that the Village of Barrington performed during Year 15 and the status of each of the BMPs and measurable goals described in the Village of Barrington's SWMP, as of the end of Year 15, are described in this Annual Report. Documentation of the Village's implementation of the SWMP is provided in Part C.

In addition to the efforts of the Village, the Lake County Storm Water Management Commission (SMC) performs activities related to each of the six minimum control measures on behalf of all MS4s in the County. These BMPs, implemented at the county level, make significant strides in achieving the statutory goal of reducing the discharge of pollutants to the maximum extent practicable as watershed boundaries are not constrained by municipal borders.

#### A. Public Education and Outreach

The Village of Barrington utilizes a variety of methods to educate and provide outreach to the public about the impacts of storm water discharges on waterbodies and the steps that the public can take to reduce pollutants in storm water runoff. Outreach publications include Village contact information to encourage residences to report environmental concerns.

##### *Distribution of Educational Materials*

Educational materials are distributed in the Village newsletter, on the Village website, at take-a-way racks in Village offices, at outreach events, and at scheduled meetings with the public. Topics include:

- Stormwater BMPs including cost-benefits and implementation guidance.
- Construction site activities (soil erosion and sediment control BMPs).
- Effective pollution prevention measures regarding storage and disposal of fuels, oils, and similar materials used in the operation of, or leaking from vehicles and other equipment.
- Effective pollution prevention measures regarding the use of soaps, solvents, or detergents used in outdoor washing of vehicles, furniture, and other property; paint and related décor.
- Refuse, recycling, and yard waste.
- Lawn and garden care.
- Winter de-icing material storage and use.
- Green infrastructure strategies such as green roofs, rain gardens, rain barrels, bio-swales, permeable piping, dry wells, and permeable pavement.
- Flooding, flood safety, basement flooding, flood control, and overhead sewers.
- Living Green Program.
- The potential impacts and effects on storm water discharge due to climate change <http://epa.gov/climatechange>.
- Hazards associated with illegal discharges and improper disposal of waste and the way to report such discharges.

- Proper hazardous waste use and disposal, special collection of household products, and programs organized by the Solid Waste Agency of Northern Cook County (SWANCC) and the Solid Waste Agency of Lake County (SWALCO).
- Hazards associated with illegal discharges and improper disposal of waste and the way to report such discharges.
- Information on the Village's MS4 Program, including the SWMP, Notice of Intent, and annual reports.

#### **Measurable Goals**

1. Distribute educational materials in the Village newsletter, on the Village website, at take-away racks in Village offices, at outreach events, and at scheduled meetings with the public.
2. Maintain and update the portion of the website dedicated to storm water.  
<http://www.barrington-il.gov/government/departments/development-services/stormwater-management>
3. Maintain and update links to websites related to the environment such as the Center for Neighborhood Technology, Environmental Protection Agency, Household Hazardous Waste Collection Schedule, and the Rain Garden Network.
4. Post the Village's SWMP, Notice of Intent, current Annual Report, and the previous 5 years of Annual Reports on the Village website.

#### **Household Hazardous Waste Program**

The desired behavior is to participate in household hazardous waste collection days, and to use appropriate pollution prevention techniques during rinsing, cleaning, and fueling activities. For household products that cannot go into the curbside recycling program or in landfills, there are several ways to dispose of these materials through programs organized by the Solid Waste Agency of Cook County (SWANCC) and the Solid Waste Agency of Lake County (SWALCO). The Village is a member community of both regional, intergovernmental agencies. As a member, Village residents are provided with a variety of waste management services, programs, and resource materials that include collections for special materials that are not allowed as part of curbside recycling or should not go into the garbage due to toxicity or recoverability (reuse and recycling). The Village also offers special collections of household batteries and compact fluorescent lights as noted below.

- Health Services in the Village of Barrington accepts household batteries (including Battery Recycling Program): The Village's Public Works Department has teamed up with SWANCC to offer residents the opportunity to safely dispose of household alkaline and rechargeable batteries. Common household alkaline batteries are no longer accepted at sponsored hazardous waste disposal events due to their benign nature and high recycle costs. This program makes it simple for residents to dispose of batteries safely. The Village provides two drop-off locations: Village Hall and Public Works.
- Compact Fluorescent Lightbulb Recycling: The Village participates in a recycling program for compact fluorescent lightbulbs. The program, sponsored by the SWANCC, is designed to help consumers properly dispose of burnt-out CFLs because of the small amounts of mercury they contain. Compact fluorescent lightbulbs have become increasingly popular for their energy-saving properties. The bulbs produce the same amount of light as incandescent bulbs but use 2/3 less energy and last 10 times longer—leading to an energy savings of about \$25 over the life of a lightbulb. The Illinois Bureau of Energy and Recycling estimates that if each household in the state replaced one incandescent bulb with one 18-watt CFL, the results would be equivalent to removing 294,000 tons of carbon emissions from the air. However, the bulbs also contain an average of 5 milligrams of mercury—about the size of a ballpoint pen tip. For that reason, they should not be disposed of with household garbage. Instead,

SWANCC has organized recycling drop-off centers for the bulbs. Bulbs can be dropped off at Public Works.

#### **Measurable Goals**

1. Support and publicize SWANCC and SWALCO efforts.
2. Continue the Village's special collection efforts and community programs.

#### ***Residential Recycling & Refuse Program***

Recycling is an effective means of achieving pollution prevention goals. Recycling is a series of activities that includes collecting recyclable materials that would otherwise be considered waste, sorting, and processing recyclables into raw materials such as fibers and manufacturing raw materials into new products. Trash and floating debris in waterways can become significant pollutants and potentially pose a threat to wildlife and human health (e.g., choking hazards to wildlife and bacteria to humans).

The following refuse and recycling programs are available in the Village:

- Refuse collection - Includes recyclables, compostable yard waste, and regular refuse.
- Electronics recycling program – Groot will put up unlimited electronic waste as the curb at no additional charge. Electronic materials include computers and monitors, video game consoles, printers, televisions, DVD players, etc.
- Household Refuse: Groot will pick up regular household refuse, furniture, swing sets (four ft. lengths maximum), bicycles, and carpeting. Carpet must be tied in bundles no longer than 4 feet. Only one large item will be collected per pickup. Groot will not take clumps of earth or construction material during regular pickups.
- Recyclable and Compostable Material: Each single-family home has one 65-gallon container for recyclable materials, which include glass, aluminum, tin, plastic bottles, and newspapers. All recyclables can be combined in this container. In addition, the Village provides each single-family home with a 95-gallon wheeled cart for compostable yard waste, which includes grass clippings, weeds, leaves and small twigs.
- Food Scrap Composting Program: Barrington residents are permitted to place approved food scrap materials inside their 95-gallon compost cart. Food composting keeps food waste out of landfills, where it takes up space, produces methane, and often cannot decompose. Composted food breaks down quickly and produces healthy soil making it much better for the environment.
- Yard Waste: The Village provides one 95-gallon container for residents. Yard waste material must be placed inside the 95-gallon cart provided; and any excess must be placed in Kraft 2-ply bio-degradable landscape waste bags.

#### **Measurable Goals**

1. Continue to offer and promote refuse and recycling programs.

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

The Village's Public Participation and Involvement Program allows input from citizens regarding implementation of the SWMP.

##### ***Public Review***

The Village conducts one public meeting annually to present the annual report to the Village Board during an open meeting. This public meeting allows the public to provide input as to the adequacy of the Village's MS4 Program. Comments are evaluated for inclusion and incorporated into the next revision of the SWMP as appropriate. The meeting is typically part of a regular Village Board meeting. Public notification

about the meeting content complies with Illinois' public notice requirements.

**Measurable Goals**

1. Present each year's Annual Report to the Village Board during an open meeting and encourage input from the public as to the adequacy of the SWMP.
2. Evaluate and incorporate comments received from the Village Board and the public.

**Environmental Justice Area Review**

Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. The USEPA has this goal for all communities and persons across the nation. It will be achieved when everyone enjoys the same degree of protection from environmental and health hazards, and equal access to the decision-making process to have a healthy environment in which to live, learn, and work.

The USEPA identifies potential environmental justice communities based on the percentage of low-income and/or minority populations in the Village compared to the statewide average. Areas that have greater than twice the statewide average may be considered a potential environmental justice community. If the low-income and/or minority population percentage is equal to or less than the statewide average, the community should not be considered a potential environmental justice community. The following web application was used to determine if the Village qualifies as an environmental justice community <https://ejscreen.epa.gov/mapper/index.html>. Three indicators were reviewed as follows:

- Demographic Index: An index based on the average of two demographic indicators; percent low-income and percent minority.
- Percent Minority: The percent of individuals in a block group who list their racial status as a race other than white alone and/or list their ethnicity as Hispanic or Latino.
- Percent Low-Income: The percent of a block group's population in households where the household income is less than or equal to twice the federal "poverty level."

Using the USEPA environmental justice website noted above, the Village determined that there are currently no areas within the Village that qualify as environmental justice areas. The following table presents the 2016 baseline data.

Demographic Indicators	Village Statistic	State Average	Twice the Statewide Average	> Twice the State Average?
<b>Demographic Index</b>	14%	35%	70%	No
<b>Minority Population</b>	15%	37%	77%	No
<b>Low Income Population</b>	12%	32%	64%	No

**Measurable Goals**

1. Complete the environmental justice screening annually. If any environmental justice areas are identified within the community, ensure that BMP efforts are targeted at these areas.

**Complaints, Suggestions, and Requests**

The Village encourages the submission of complaints, suggestions, and requests related to its storm water management program. Calls are screened, logged, and routed to the appropriate individual for action. General program related calls are directed to the Public Works Director, or designee. Construction activity related telephone calls are directed to the Village Engineer.

The Village website contains an Online Service Request system that allows residents, businesses, and visitors to communicate their concern directly to the Public Works Department. All requests are immediately directed to the appropriate Public Works Unit. Phone numbers are provided for working and non-working hours.

#### **Measurable Goals**

1. Encourage the submission of complaints, suggestions, and requests related to storm water by publicizing contact information on education materials and the Village website.  
<http://www.barrington-il.gov/i-want-to-/request-service>
2. Provide methods for residents, businesses, and visitors to communicate their concerns.
3. Respond to concerns in a timely fashion.

#### ***Watershed Planning and Stakeholders Meetings***

The Village of Barrington participates (and encourages the participation of local stakeholders) in local program events and other sponsored watershed planning events. The Village attends these events and will adopt watershed plans per the direction and in coordination with SMC.

#### **Measurable Goals**

1. Participate (and encourages the participation of local stakeholders) in watershed planning and stakeholder meetings.

### **C. Illicit Discharge Detection and Elimination Program**

#### ***Storm Sewer System Map***

As required by the NPDES ILR40 permit, the Village developed a map of the municipal storm sewer system identifying the location of all outfalls, and the names and location of all receiving waters. The storm sewer system map is meant to demonstrate a basic awareness of the discharge areas of the system. It is needed to help determine the extent of discharged dry weather flows, the possible sources of the dry weather flow, and the particular waterbody these flows may be affecting. The outfall map is revised as needed to incorporate permitted outfalls associated with new developments.

#### **Measurable Goals**

1. Maintain the Village's storm sewer system map, updating annually.

#### ***Lake County Watershed Development Ordinance***

Several provisions of the Lake County Watershed Development Ordinance (WDO) prohibit illicit discharges as part of the development process. Regulated developments are also required to meet the soil erosion and sediment control (SESC) standards of the WDO. The Village of Barrington has adopted the Lake County WDO and is currently a Certified Community for the review, permitting, inspection, and enforcement of the provisions of the WDO.

#### **Measurable Goals**

1. Adhere to the requirements of the WDO.

#### ***Visual Dry Weather Inspection Program***

Inspecting storm water outfalls during dry-weather conditions reveals whether non-storm water flows exist. If non-storm water flows are observed, they can be screened and tested to determine whether pollutants are present. Dry weather discharges are typically composed of sewage from leaking pipes or septic systems; wash water from various residential, commercial, and industrial activities and operations; liquid wastes such as oil, paint, and process water; tap water from leaks in the water supply system; landscape

irrigation; and groundwater. Water quality testing is used to conclusively identify flow types found during dry weather inspections. Testing can distinguish illicit flow types (e.g., sewage, liquid wastes, commercial/industrial wash water) from cleaner discharges (e.g., tap water, landscape irrigation, and groundwater).

The Village's procedure for the identification of illicit discharges is included in the Village's SWMP. Step-by-step instructions for identifying storm sewers suspected of containing pollutants, suggestions for actions to be taken to determine the sources of identified pollutants, and steps for correcting identified problems are provided. The results of these procedures are intended to serve as indicators of pollution, rather than to provide specific quantitative analysis. If the presence of pollutants is indicated, the detective work of identifying the source of the discharge can begin. Once the source is identified, it can then be corrected.

#### **Measurable Goals**

1. Conduct outfall inspections annually during periods of dry weather.
2. Follow up on any observations of dry weather flow.

#### **Public Notification**

The Village provides educational material regarding illegal dumping of trash and used materials. Residents are encouraged to report illegal dumpers by calling the Public Works Department. The Village publicizes the Public Works Department phone number for the public to report illicit discharges and illegal dumping on outreach material and on the Village website.

#### **Measurable Goals**

1. Publicize the Public Works Department phone number on outreach material and on the Village website.
2. Provide educational material on illicit discharges and illegal dumping on the Village website.

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

By many accounts, the most environmentally dangerous period of development is the initial construction phase, when land is cleared of vegetation and graded to create a proper surface for construction. The removal of natural vegetation and topsoil makes the exposed area particularly susceptible to erosion.

#### **Regulatory Authority**

The Village of Barrington has adopted the Lake County WDO and is currently a Certified Community for the review, permitting, inspection, and enforcement of the provisions of the WDO in both counties. The Village of Barrington's Village Code meets the minimum requirements of the WDO and any project within the Village of Barrington corporate limits must meet these requirements. The Village of Barrington's storm water management regulations are in Title 10, Chapter 9 of the Village Code. The purpose of these regulations is to establish reasonable rules and regulations for development to ensure that new development does not increase existing storm water problems or create new ones. The Village Code establishes standards for runoff, maintenance, detention sites, soil erosion and sediment control, water quality, wetlands, and floodplains.

Applicants submit the completed application forms and supporting documentation to the Village for review and comment. After all applicable provisions of the Village Code have been addressed, a permit is issued. Each permit lists any additional conditions that are applicable to the development.

The Village Code is the regulatory mechanism that requires the use of SESCOs on development sites. At a minimum, these standards apply to any development project that hydrologically disturbs 5,000 square feet of land or more. In addition, applicants that hydrologically disturb greater than 1-acre are required to seek

coverage under the NPDES Construction Site General Permit ILR10 by filing a NOI with the IEPA. A copy of the NOI must be submitted to the Village prior to commencement of any site work, including demolition. During construction, applicants are required to submit to the IEPA Incidence of Noncompliance (ION) forms, as necessary. After the site is substantially stabilized, the applicant is required to submit a Notice of Termination (NOT) to the IEPA.

### **Site Plan Review**

All permits start at the Building Department, who routes the plans to various departments. The Village reviews plans in accordance with the Village's Village Code. Elements reviewers look for in an effective site construction SESC plan include:

- Minimize needless clearing and grading.
- Protect waterways and stabilize drainage ways.
- Phase construction to limit soil exposure.
- Stabilize exposed soils immediately.
- Protect steep slopes and cuts.
- Install perimeter controls to filter sediments.
- Employ advanced sediment settling controls.

#### **Measurable Goals**

1. Review site plans and issue permits in accordance with the Village Code.
2. Ensure construction sites needing coverage under the NPDES Construction Site General Permit ILR10 obtain coverage prior to issuance of a Watershed Development Permit.

### **Construction Site Inspections & Enforcement**

Title 10, Chapter 9 of the Village Code contains both recommended and minimum requirements for the inspection of development sites. For major developments, site inspections occur (at a minimum) upon completion of installation of SESC measures, prior to the start of any other land disturbing activities, after final stabilization and landscaping, and prior to the removal of SESC measures.

Section 10-9-12-1201 of the Village Code specifies the legal actions that may be taken and the penalties that may be imposed if the provisions of Chapter 9 (Storm Water Management Regulations) are violated. If development activities on a development site are not in compliance with the requirements of Chapter 9, the Village may issue a stop work order on all development activity on the site or on the development activities that are in direct violation of the Village Code. In addition, failure to comply with any of the requirements of Chapter 9 constitutes a violation of the Village Code, and any person convicted of violating the Village Code may be fined.

#### **Measurable Goals**

1. Document and track site inspections on development sites. Keep files for 5 years.

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

The management of storm water runoff from sites after the construction phase is vital to controlling the impacts of development on urban water quality. The increase in impervious surfaces such as rooftops, roads, parking lots, and sidewalks due to land development can have a detrimental effect on aquatic systems. Runoff from impervious areas can also contain a variety of pollutants that are detrimental to water quality, including sediment, nutrients, road salts, heavy metals, pathogenic bacteria and petroleum hydrocarbons.

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## **Regulatory Program**

The Village Code establishes the minimum storm water management requirements for development, including requirements for post-construction runoff control. The Village Code requires all applicants to adopt storm water management strategies for controlling post-construction storm water runoff on development sites. All development must adopt storm water management strategies that minimize increases in storm water runoff rates, volumes, and pollutant loads from development sites. Proposed storm water management strategies must address the runoff volume reduction requirements and include appropriate storm water BMPs to address the other applicable post-construction runoff control requirements of the Village Code. Applicants are also required to adopt strategies that incorporate storm water infiltration, reuse, and evapotranspiration of storm water into the project to the maximum extent practicable. Types of techniques include green roofs, rain gardens, rain barrels, bio-swales, permeable piping, dry wells, and permeable pavement.

The Village Code requires that maintenance plans be developed for all storm water management systems designed to serve major developments. Such maintenance plans must include the following:

- Description of all maintenance tasks.
- Identification of the party or parties responsible for performing such maintenance tasks.
- Description of all permanent maintenance easements or access agreements, overland flow paths, and compensatory storage areas.
- Description of dedicated sources of funding for the required maintenance.

The Village Code also requires that all storm water management systems be located within a deed or plat restriction to ensure that the system remains in place in perpetuity and that access to the system is maintained in perpetuity for inspection and maintenance purposes.

### **Measurable Goals**

1. Document BMPs approved on development sites.
2. Ensure maintenance plans are prepared for all storm water management systems as required by the Village Code.

## **Storm Water Management Facility Inspections**

Regular inspection is essential to maintain the effectiveness of post-construction storm water management facilities. Inspection and maintenance of facilities can be categorized into two groups: (1) expected routine maintenance, and (2) non-routine maintenance (i.e., repairs). Routine maintenance refers to checks performed on a regular basis to keep the facility in good working order and aesthetically pleasing. In addition, routine inspection and maintenance is an efficient way to reduce the chance of polluting storm water runoff by finding and correcting problems before the next rain. The failure of structural storm water facilities can lead to downstream flooding, causing property damage, injury, and even death.

The Village attempts to inspect approximately 20% of all public and private storm water management facilities a year; resulting in a 5-year inspection interval. Observed erosion, seeding/reseeding needs, and slope stabilization needs are documented. During the inspections, staff identify facilities that would most benefit from a retrofit or other enhancements. SMC's Streambank/Shoreline Stabilization Manual is used as a starting point in choosing the appropriate BMP for remediation activities. Impacts and effects due to climate change are taken into considered when making recommendations. A master list of storm water management facilities is maintained and updated on a regular basis.

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### Measurable Goals

1. Maintain an inventory of all public and private storm water management facilities.
2. Inspect 20% of all public and private storm water management facilities on an annual basis. Recommend remedial actions as appropriate.
3. Evaluate the feasibility of retrofits and enhancements to storm water management facilities.

### F. Pollution Prevention/Good Housekeeping

The Village is responsible for the care and upkeep of Village-owned property, municipal roads, and maintenance yards. Many maintenance activities are performed by Village staff; however, contractors are employed to perform specific activities. The Village requires documentation that appropriate training has been completed annually, for all contractors retained to manage or carry out routine maintenance, repair, or replacement of public surfaces in current green infrastructure or low impact design techniques applicable to such projects. Contractors are responsible for providing training to their employees for projects which include green infrastructure or low impact design techniques and providing proof of such training to the Village.

The Village maintains compliance with permit requirements by incorporating pollution prevention and good housekeeping storm water quality management into day-to-day operations. On-going education and training is provided to staff to ensure they have the knowledge and skills necessary to perform their functions effectively and efficiently. The Village of Barrington implements the following programs to fulfill the requirements of this minimum control measure.

#### ***Catch Basin/Inlet Cleaning***

Catch basins are chambers or sumps that allow surface water runoff to enter the storm water conveyance system. Many catch basins are below the invert of the outlet pipe intended to retain coarse sediment. By trapping sediment, the catch basin prevents solids from clogging the storm sewer and being washed into receiving waters. Catch basins are cleaned periodically to maintain their ability to trap sediment and consequently, their ability to prevent flooding. The removal of sediment, decaying debris, and highly polluted water from catch basins has aesthetic and water quality benefits, including reducing foul odors, reducing suspended solids, and reducing the load of oxygen-demanding substances that reach receiving waters. Generally, catch basins are cleaned if the depth of deposits is greater than or equal to one-third to depth from the basin to the invert of the lowest pipe or opening into or out of the basin. Catch basins are cleaned either manually or by specially designed equipment. Before any materials can be disposed, it may be necessary to perform a detailed analysis to characterize the waste. However, material removed from catch basins is typically stored at the Village's maintenance yard and disposed in a conventional landfill. The Department of Public Works is currently responsible for administering the Villages Catch Basin/Inlet Cleaning BMP.

The Village cleans catch basins and inlets on an as needed basis (i.e. complaints, standing water, etc.). Catch basins found to have structural deficiencies are reported to the Director of Public Works. Necessary remedial actions are completed by a contractor or incorporated into a capital project

### Measurable Goals

1. Clean catch basins and inlets on an as needed basis.
2. Report catch basins found to have structural deficiencies.
3. Complete necessary repairs.

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### ***Public Works Washing Station Facility***

Vehicle and equipment wash waters have the potential to result in high loads of nutrients, metals, and hydrocarbons in receiving waters. The Village currently utilizes a triple catch basin connected to the sanitary sewer for washing vehicles and equipment at the Public Works Facility. The Department of Public Works maintains the triple catch basin.

#### **Measurable Goals**

1. Ensure Village vehicles are washed in the proper location.
2. Complete routine maintenance of the triple catch basin.

### ***Material Storage***

Uncovered materials such as salt, wood, sand, stone, gravel, etc. have the potential to contaminate storm water when exposed to rain and/or runoff. Tarp, plastic sheeting, roofs, buildings, and other enclosures are examples of temporary or permanent coverings that are effective in preventing storm water contamination. Covering is necessary for loading/unloading areas; raw material, byproduct, and final product outdoor storage areas; fueling and vehicle maintenance areas; and other high-risk areas. The Department of Public Works maintains its salt dome, covered fuel island, and material storage areas.

#### **Measurable Goals**

1. Maintain salt storage, covered fuel island, and material storage areas.
2. Conduct monthly pollution prevention inspections at the Public Works Facility.

### ***Street Sweeping***

The Village employs street sweeping on a regular basis to minimize pollutant export to receiving waters. These cleaning practices are designed to remove from road and parking lot surfaces sediment, debris and other pollutants that are potential source of pollution impacting urban waterways. Recent improvements in street sweeper technology have enhanced the ability of present day machines to pick up the fine-grained sediment particles that carry a substantial portion of the storm water pollutant load. Street sweeping is used during the spring snowmelt to reduce pollutant loads from road salt and to reduce sand export to receiving waters. The Department of Public Works is responsible for the street sweeping program for the Village. The Village attempts to sweep each street three times per year.

#### **Measurable Goals**

1. Maintain current street sweeping practices.

### ***Landscape Maintenance***

The Department of Public Works is responsible for maintenance of landscaping at municipal facilities, along municipal roads, and in maintenance yards. The Department of Public Works is also responsible for the Village's program for application of pesticides and herbicides. The use of pesticides and fertilizers are managed in a way that minimizes the volume of storm water runoff and pollutants. Landscape contractors are required to meet the NPDES MS4 training requirements and ensure that they adhere to the Village's SWMP.

#### **Measurable Goals**

1. Manage the use of pesticides and fertilizers in a way that minimizes the volume of storm water runoff and pollutants.
2. Ensure landscape contractors utilized by the Village meet NPDES MS4 training requirements.

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## ***Snow Removal and Ice Control***

The Village of Barrington's Department of Public Works handles snow and ice removal on Village Roadways. During snow removal and ice control activities, salt, de-icing chemicals, abrasives, and snow melt may pollute storm water runoff. To address these potential pollutants, the following procedures for the "winter season" (November 1 through May 1) are implemented.

Roadway Ice Control - Use the minimal amount of salt, de-icing chemicals, and additives necessary for effective control. Prior to November 1, preparation work to obtain seasonal readiness is completed. These tasks include installing, inspecting, re-conditioning, testing, and calibrating of spreaders and spinners per the National Salt Institution Application Guidelines. Driver training is also conducted annually for all drivers. The completion of these preparatory tasks helps to ensure that only the necessary level of salt is applied.

Snow Plowing - Snow plowing activities direct snow off the pavement and onto the parkways. This reduces the amount of salt, chemical additives, abrasives, or other pollutants that go directly into the storm sewer system.

Participation in Watershed Group - Village staff participate in a watershed group(s) organized to implement control measures which will reduce the chloride concentration in receiving streams in the watershed.

Salt Delivery and Storage - Steps are taken to ensure that the delivery, storage, and distribution of salt does not pollute storm water runoff. The floor of the enclosed salt storage building, and adjacent receiving/unloading area is constructed of impervious material. The limits of the salt piles are pushed back away from the door opening to minimize potential illicit runoff.

### **Measurable Goals**

1. Continue to implement the pre-season procedures related to roadway ice control, snow plowing, participation in watershed groups, driver training, and management of salt delivery and storage.

## ***Vehicle and Equipment Maintenance***

Vehicle and equipment fueling procedures and practices are designed to minimize or eliminate the discharge of pollutants to the storm water management system, including receiving waters. The following standard procedures are implemented.

Vehicle Fueling - The vehicle fueling area contains two (2) single nozzle pumps with two (2) belowground tanks. One (1) 10,000-gallon single wall gasoline tank and one (1) 6,000-gallon double wall ultra-low sulfur diesel tank. The diesel tank has an interstitial monitoring alarm system.

Waste Oil - Used motor oil, transmission fluids, gear lubes, brake fluids and other vehicle fluids (except antifreeze) are collected and stored in approved containers. The waste oil tank is emptied by a private company and removed for recycling.

Antifreeze - Used antifreeze is stored in a 55-gallon tank. It is emptied by a private company and removed for recycling.

Batteries - Used batteries are stored in the vehicle maintenance area and are removed for recycling weekly by a private battery supplier.

Tires - Used tires are picked up and recycled by a local vendor as accumulated. Tires are stored outside at the Village's garage until picked up for disposal.

Other - Private certified companies perform all air-conditioning related work; therefore, the disposal of

Freon is not handled directly by the Village. Cleaning fluids and solvents are contained within an enclosed tank and maintained by a private licensed special waste company.

### Measurable Goals

1. Continue to implement the procedures for vehicle and equipment maintenance.

### **Waste Management**

Waste Management consists of implementing procedural and structural practices for handling, storing, and disposing of wastes generated by Village maintenance activity. This helps prevent the release of waste materials into receiving waters. Waste management practices include removal of materials such as asphalt and concrete maintenance by-products, excess earth excavation, contaminated soil, hazardous wastes, sanitary waste, and material from within triple basins. The following standard procedures are implemented.

Spoil Stock Pile - Asphalt and concrete maintenance by-products and excess earth excavation materials are temporarily stored in the stock pile in the maintenance yard. Attempts are made to recycle asphalt and concrete products prior to storage in the spoil stock pile. Licensed waste haulers are contracted to remove and dispose of the contents at a licensed landfill. Surface runoff from this area is largely contained.

Contaminated Soil Management - Contaminated soil/sediment generated during an emergency response or identified during construction activities is collected and management for treatment or disposal. Attempts are made to avoid stockpiling of the contaminated soil.

Hazardous Waste - All hazardous wastes area stored in sealed containers constructed of compatible material and labeled. The containers are located in non-flammable storage cabinets or on a containment pallet. These items include paint, aerosol cans, gasoline, solvents, and other hazardous wastes. Care is taken to avoid overfilling containers. Paint brushes and equipment used for water and oil-based paints are cleaned within the designated cleaning area. The Department of Public Works maintains oversight of hazardous waste generated by the Village. Containerized hazardous waste materials are disposed of or recycled through a contract arrangement with a third party hazardous waste disposal firm.

### Measurable Goals

1. Properly handle, store, and dispose of wastes generated by Village maintenance activities.

### **Special Events**

Persons or organizations planning an event (such as parades and fairs) in the Village that includes using public property (including village streets) or requires the utilization of Village services (i.e., electrical needs, traffic and parking coordination, paramedic services, etc.) must apply for approval. This approval process ensures that entities in charge of special events prohibit the dumping, depositing, dropping, throwing, discarding, or leaving of litter and all other illicit discharges from entering the storm water management system. The Public Works Department oversees clean-up activities after these events.

### Measurable Goals

1. Require approval for special events to prohibit the dumping, depositing, dropping, throwing, discarding, or leaving of litter and all other illicit discharges from entering the storm water management system.

### **Spill Response Plan**

Spill prevention and control procedures are implemented wherever non-hazardous chemicals and/or hazardous substances are stored or used. These procedures and practices are implemented to prevent and control spills in a manner that minimizes or prevents discharge to the storm water drainage system

and receiving waters.

The following general guidelines are implemented to prevent spills:

- Ensure all hazardous substances are properly labeled.
- Store all hazardous wastes in sealed containers constructed of compatible material and labeled.
- Locate items, such as paint, aerosol cans, gasoline, solvents and other hazardous wastes, in non-flammable storage cabinets or on a containment pallet.
- Do not overfill containers.
- Provide secondary containers when storing hazardous substances in bulk quantities (greater than 55 gallons).
- Dispense and/or use hazardous substances in a way that prevents release.

**Non-Hazardous Spills/Dumping** - Non-hazardous spills typically consist of an illicit discharge of household material(s) into the street or storm water management system. Upon notification or observance of a non-hazardous illicit discharge, the Public Works Department or Police Department implement the following procedure:

- Sand bag the receiving inlet to prevent additional discharge into the storm sewer system.
- Check structures (immediate and downstream) and if possible, vacuum materials out. Jet structure to dilute and flush the remaining unrecoverable illicit discharge.
- Clean up may consist of applying “Oil Dry” or sand and then sweeping up the remnant material.
- On-site personnel document the location, type of spill, and action taken.
- If a person is observed causing an illicit discharge, the Department Public Works is notified and appropriate citations issued.

**Hazardous Spills** - Upon notification or observance of a hazardous illicit discharge, the Public Works Department or Police Department implement the following procedure:

- Call 911, explain the incident. The Fire Department responds.
- Village Police provide emergency traffic control, as necessary.
- The Fire Department evaluates the situation and applies “No Flash” or “Oil Dry” as necessary.
- The Fire Department’s existing emergency response procedure for hazardous spill containment clean-up activities is followed.
- On-site personnel document the location, type of spill, and action taken.

### **Measurable Goals**

1. Implement the Spill Response Plan outlined above.

## **Part C. MS4 Information and Data Collection Results, Year 15**

### **Stormwater Management Program Assessment, Year 15**

On April 23, 2018, Village staff met with their consultant to review the annual report and tracking documents; assess the appropriateness and effectiveness of the Best Management Practices identified in the Village's SWMP; and discuss the changes to the ILR40 permit which became effective March 1, 2016. After the meeting, the SWMP was revised to incorporate items discussed at the annual review meeting. Based on this assessment, the Village believes that their current program is effectively making progress towards achieving the statutory goal of reducing the discharge of pollutants to the maximum extent practicable.

### **Water Quality Monitoring and Assessment Program, Year 15**

The Village of Barrington developed a Water Quality Monitoring and Assessment Program for the purpose of demonstrating compliance with the minimum standards required by the IEPA's General Storm Water Permit ILR40 for discharges from MS4s. The Permit requires annual monitoring of receiving waters upstream and downstream of the MS4 discharges, use of indicators to gauge the effects of storm water discharges on the physical/habitat-related aspects of the receiving waters and/or monitoring of the effectiveness of the Best Management Practices (BMPs). Monitoring of storm water discharges must be performed within 48 hours of a precipitation event greater than or equal to one-quarter inch in a 24-hour period.

Water pollution control programs are designed to protect the beneficial uses of the water resources within the state. Each state has the responsibility to set water quality standards (WQS) that protect these beneficial uses, commonly referred to as "designated uses". In Illinois, waters are designated for various uses including aquatic life, wildlife, agricultural use, primary contact (e.g., swimming, water skiing), secondary contact (e.g., boating, fishing), industrial use, drinking water, food-processing water supply and aesthetic quality. Illinois' WQS provide the basis for assessing whether the beneficial uses of the state's waters are being attained. The purpose of the Village's Water Quality Monitoring and Assessment Program is to assess the quality of receiving waters and provide recommendations for BMPs that will target the identified areas of concern.

Test results are compared against the water quality standards (WQS) established by the Illinois Pollution Control Program (IPCB) and to the water quality results of prior testing. The Illinois WQS are located in the Illinois Administrative Rules Title 35, Environmental Protection; Subtitle C, Water Pollution; Chapter I, Pollution Control Board; Part 302, Water Quality Standards. The purpose of these standards are to protect existing uses of all waters of the State of Illinois, maintain above standard water quality and prevent unnecessary deterioration of waters of the State. Not all of the constituents tested for contain a limit under the General Use Water Quality Standard.

Water quality sampling was conducted during Year 15 at three locations within the receiving waters, both upstream and downstream of the Village's stormwater discharges. At these locations, the physical characteristics of the sampling point were observed and water quality samples were collected. Collected water quality samples were analyzed for ammonia, biochemical oxygen demand, phosphorus, total suspended solids, and pH.

The data was reviewed to determine whether or not it provides any evidence of reduced pollutant loads or improved water quality. The data collected from water quality sampling locations upstream and downstream of the Village's stormwater discharges show either no change or a decrease in the concentrations of a number of water quality parameters between the upstream and downstream sampling locations. These findings may be attributable to the MS4's stormwater management activities and indicate

that the Village's BMPs and stormwater management program are appropriate.

### **Tracking and Data Collection, Year 15**

A summary of activities performed in accordance with the Village's SWMP are presented in the following pages.

# Public Education and Outreach

Description	Date	Distribution	Target Audience
Website: Stormwater Documents: - After the Storm: A Citizens Guide to Understanding Stormwater - Car Wash Tips for Homeowners - Cleaning up Stormwater Runoff - NPDES Stormwater Management Program - Phase II - Protecting Water Quality from Urban Runoff - Stormwater and Construction - Stormwater Best Management Practices - Stormwater Pollution Sources - Stormwater Pollution Solution - Ten Ways to Improve Stormwater Runoff Quality	Ongoing	<a href="http://www.barrington-il.gov/i-want-to-download-documents-forms">http://www.barrington-il.gov/i-want-to-download-documents-forms</a>	Everyone
"Green Initiatives" page on the Village website provides links to the Rain Barrel Rebate Program, Citizens for Conservation, Flint Creek Watershed Partnership, Smart Farms, Citizens for Open Space, Barrington Area Conservation Trust and Tree City USA.	Ongoing	<a href="http://www.barrington-il.gov/government/green-initiatives">http://www.barrington-il.gov/government/green-initiatives</a>	Everyone
Website: Report a Problem - Creek Maintenance	Ongoing	<a href="http://www.barrington-il.gov/i-want-to-report-a-problem">http://www.barrington-il.gov/i-want-to-report-a-problem</a>	Everyone
Website: Stormwater Management - Lake County Stormwater Management Ordinance - FEMA Floodplain Information - What to do if a resident has stormwater issue. - Link to resources for water quality, stormwater, green infrastructure, watershed partnerships, pollution prevention, construction site stormwater management, Best Management Practices, pollution sources/solutions, urban runoff, 10 ways to improve stormwater runoff. - Contact information for stormwater management - NPDES MS4 Annual Reports - General information on the MS4 program.	Ongoing	<a href="http://www.barrington-il.gov/government/departments/development-services/stormwater-management">http://www.barrington-il.gov/government/departments/development-services/stormwater-management</a> , <a href="http://www.barrington-il.gov/government/departments/public-works">http://www.barrington-il.gov/government/departments/public-works</a>	Everyone
Website: Links to all Village Services	Ongoing	<a href="http://www.barrington-il.gov/residents/village-services">http://www.barrington-il.gov/residents/village-services</a>	Everyone
Website: Recycling and Refuse	Ongoing	<a href="http://www.barrington-il.gov/government/departments/community-financial-services/programs-services/recycling-refuse-services">http://www.barrington-il.gov/government/departments/community-financial-services/programs-services/recycling-refuse-services</a>	Everyone

# Public Education and Outreach

Description	Date	Distribution	Target Audience
Website Rules and Regulations	Ongoing	<a href="http://www.barrington-il.gov/government/rules-and-regulations">http://www.barrington-il.gov/government/rules-and-regulations</a>	Everyone
Newsletter (6/9/17): - Jewel Park Residents Meet with Village to Discuss CN/ Rt. 14 Underpass - Sanitary Sewer Replacement Project Update - Public Meeting Schedule	6/9/17	Email	Everyone
Newsletter (6/23/17): - Sanitary Sewer Replacement Project Update - Public Meeting Schedule	6/23/17	Email	Everyone
Newsletter (7/7/17): - Public Meeting Schedule	7/7/17	Email	Everyone
Newsletter: Special Flooding Alert	7/12/17	Email	Everyone
Newsletter (7/21/17): - Update: Main Street Construction - Public Meeting Schedule - Barrington and Its Lake County Neighbors Experience Significant Flooding on July 12	7/21/17	Email	Everyone
Newsletter: (8/4/17): -Construction Update: Main Street Now Open - Route 14 & Hart Road: Update on Route 14 Repairs from March 8th Truck Fire - Public Meeting Schedule	8/4/17	Email	Everyone
Newsletter (9/15/17): - North Commuter Lot Parking Closures Continue, Sanitary Sewer Replacement Project Moves South of Main Street - Village Board Approves Brentwood Subdivision, Townhomes to Be Built at Grove Ave. and Dundee Rd. - Take Our Quick Poll: Village Newsletter - It's Leaf Season Again! - Fall Chipper Schedule - Public Meeting Schedule	9/15/17	Email	Everyone

# Public Education and Outreach

Description	Date	Distribution	Target Audience
<p>Newsletter ( 9/29/17):</p> <ul style="list-style-type: none"> <li>- Village, Park District Approve Miller Park Land Swap Agreement Deal to Help Improve Flooding in Miller Park Area</li> <li>- Sanitary Sewer Replacement Project Updates, Paving Almost Complete; Commuter Parking Update for October 2-4; AT&amp;T Lot Update</li> <li>- Public Invited to Legislative Breakfast October 4</li> <li>- It's Leaf Season Again!</li> <li>- Fall Chipper Schedule</li> <li>- Public Meeting Schedule</li> </ul>	9/29/17	Email	Everyone
<p>Newsletter (10/13/17):</p> <ul style="list-style-type: none"> <li>- Sanitary Sewer Replacement Project Updates Paving Complete North of Main; Commuter Parking Update for October 16-22</li> <li>- October 19: Lake County Floodproofing Expo</li> <li>- It's Leaf Season Again!</li> <li>- Public Meeting Schedule</li> </ul>	10/13/17	Email	Everyone
<p>Newsletter (10/27/17):</p> <ul style="list-style-type: none"> <li>- Sanitary Sewer Replacement Project Updates Paving and Restoration Work Continues South of Main on Wool and Station Streets</li> <li>- It's Leaf Season Again!</li> <li>- Public Meeting Schedule</li> </ul>	10/27/17	Email	Everyone
<p>Newsletter (11/10/17):</p> <ul style="list-style-type: none"> <li>- Sanitary Sewer Replacement Project Comes to a Close for 2017 Wool, Station, Klingenberg Will Reopen Today; Normal Parking Regulations Resume Nov. 13</li> <li>- Snow and Ice Season Is Now Upon Us, What You Need to Know</li> <li>- The Village's Public Works facility (300 Raymond Ave.) is a drop-off site for cork recycling through a project coordinated by the Signal Hill Chapter of the Daughters of the American Revolution.</li> <li>- Holiday Light Recycling Program, Don't throw away those broken holiday lights - recycle them!</li> <li>- Christmas Tree Chipper Schedule</li> <li>- Public Meeting Schedule</li> </ul>	11/10/17	Email	Everyone

# Public Education and Outreach

Description	Date	Distribution	Target Audience
<p>Newsletter (11/21/17):</p> <ul style="list-style-type: none"> <li>- The Village's Public Works facility (300 Raymond Ave.) is a drop-off site for cork recycling through a project coordinated by the Signal Hill Chapter of the Daughters of the American Revolution.</li> <li>- Holiday Light Recycling Program, Don't throw away those broken holiday lights - recycle them!</li> <li>- Christmas Tree Chipper Schedule</li> <li>- Public Meeting Schedule</li> </ul>	11/21/17	Email	Everyone
<p>Newsletter (12/1/17):</p> <ul style="list-style-type: none"> <li>- Questions About Village Permits, Zoning, or Codes? Our Development Services Department Can Help</li> <li>- The Village's Public Works facility (300 Raymond Ave.) is a drop-off site for cork recycling through a project coordinated by the Signal Hill Chapter of the Daughters of the American Revolution.</li> <li>- Holiday Light Recycling Program, Don't throw away those broken holiday lights - recycle them!</li> <li>- Christmas Tree Chipper Schedule</li> <li>- Public Meeting Schedule</li> </ul>	12/1/17	Email	Everyone
<p>Newsletter (12/15/17):</p> <ul style="list-style-type: none"> <li>- Holiday Light Recycling Program, Don't throw away those broken holiday lights - recycle them!</li> <li>- Christmas Tree Chipper Schedule</li> <li>- Snow and Ice Season Is Now Upon Us, What You Need to Know</li> <li>- Public Meeting Schedule</li> </ul>	12/15/17	Email	Everyone
<p>Newsletter (12/22/17):</p> <ul style="list-style-type: none"> <li>- Holiday Light Recycling Program, Don't throw away those broken holiday lights - recycle them!</li> <li>- Christmas Tree Chipper Schedule</li> <li>- Snow and Ice Season Is Now Upon Us, What You Need to Know</li> <li>- Public Meeting Schedule</li> </ul>	12/22/17	Email	Everyone
<p>Newsletter (1/5/18):</p> <ul style="list-style-type: none"> <li>- Holiday Light Recycling Program, Don't throw away those broken holiday lights - recycle them!</li> <li>- Christmas Tree Chipper Schedule</li> <li>- Snow and Ice Season Is Now Upon Us, What You Need to Know</li> <li>- Public Meeting Schedule</li> </ul>	1/5/18	Email	Everyone

# Public Education and Outreach

Description	Date	Distribution	Target Audience
Newsletter (1/19/18): - New Luxury Condominiums Coming to Downtown - Holiday Light Recycling Program, Don't throw away those broken holiday lights - recycle them! - Snow and Ice Season Is Now Upon Us, What You Need to Know - Public Meeting Schedule	1/19/18	Email	Everyone
Newsletter (2/2/18): - Work Under Way at Miller Park, Storm Water Control Basin Aims to Reduce Flooding Near Lincoln & Summit Streets - Spring Chipper Schedule - Public Meeting Schedule	2/2/18	Email	Everyone
Newsletter (2/16/18): - Sanitary Sewer Replacement Project & Commuter Parking Update: Road Closures Next Week in Russell/Summit Area; North Commuter Lot Will Be Fully Open Feb. 19 - Barrington Recycles! - Spring Chipper Schedule - Public Meeting Schedule	2/16/18	Email	Everyone

# Public Participation & Involvement

Description	Date	Distribution	Target Audience
Presentation at Committee of the Whole Meeting	1/8/2018	Public Meeting	Public



**PUBLIC MEETING NOTICE**  
**COMMITTEE OF THE WHOLE**  
**Monday, January 8, 2018 – 6:00 p.m.**

The Village of Barrington Corporate Authorities sitting as a Committee of the Whole will meet at the Barrington Village Hall, Community Conference Room, 200 S. Hough Street, Barrington, IL 60010 on Monday, January 8, 2018 at 6:00 p.m. for the purposes as set forth in the following Agenda:

- I. **Call to Order**
- II. **Roll Call**
- III. **Persons to Be Heard From the Floor – Citizens Registration/ Comments**  
It is at this time during each meeting that the public is given the opportunity to address the Board on matters of concern and/or comment on items included on the agenda.
- IV. **Approval of Minutes**
  - a. December 11, 2017
- V. **Discussion**
  - a. **Special Events**
- VI. **Future Agenda Items**  
*January 8, 2018 Board Meeting*
  - a. **Motion Re:** Hire Administrative Support Position for the Police Department
  - b. **Resolution Re:** Authorizing the Issuance of a Purchase Order to and Contract with Currie Motors Fleet for the Purchase of Two (2) New 2018 Ford Utility Police Interceptor Vehicles
  - c. **Resolution Re:** Approving Contract with Acres Group for Snow and Ice Removal in the Chippendale Subdivision
  - d. **Resolution Re:** Approving a Contract with Acres Group for Snow and Ice Removal in the North Commuter Parking Lot/Train Station and Village Center
  - e. **Resolution Re:** Approving and Authorizing the Execution of an Independent Contractor Agreement with Thyme Management Services, Inc., d/b/a Wild Asparagus Catering to Provide Certain Event Management Services to the Village Relative to Barrington's White House
  - f. Clarify, as necessary, items included on tonight's Board Agenda.
- VII. **Updates**
  - a. Projects
  - b. Administrative
  - c. Intergovernmental Organizations
  - d. Community Recognitions
  - e. Board Member Reports on Committee Assignments & Conference/Meeting Summaries
  - f. Legislative Matters
- VIII. **Recurring Agenda Items**
  - a. Financial Reports

- b. Sales Tax Report
- c. Legal Bills
- d. BWH Report

IX. **CONSIDERATION RE:** Motion to adjourn to Closed Session to discuss matters of Personnel [5 ILCS 120/2(c)(1)], Insurance and/or Self-Insurance Claims [5 ILCS 120/2(c)(12)], Land Acquisition [5 ILCS 120/2(c)(5)], Collective Negotiating Matters [5 ILCS 120/2(c)(2)], Security [5 ILCS 120/2(c)(8)], and Litigation Which is Pending or Which is Probable or Imminent [5 ILCS 120/2(c)(11)], the Board finding that based upon advice of counsel, litigation is probable or imminent as to those matters so identified on the record in such Closed Session for the reasons therein stated.

X. **Adjournment**

The Village of Barrington is subject to the requirements of the Americans with Disabilities Act of 1990. Individuals with disabilities who plan to attend this meeting and who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting or the Village's facilities, are requested to contact the Village Clerk's Office at 200 S. Hough Street, Barrington, Illinois 60010 or call at 847/304-3400 promptly to allow the Village to make reasonable accommodations for those persons.

Posted: January 5, 2018

cc: President and Board of Trustees  
Jeff Lawler, Village Manager  
Village Clerk  
Department Heads  
Courier, Herald, Tribune, Sun Times

VILLAGE OF BARRINGTON  
COMMITTEE OF THE WHOLE STAFF REPORT MEMO

DATE: January 5, 2018  
TO: President and Board of Trustees  
FROM: Jeff Lawler, Village Manager  
RE: Committee of the Whole Meeting  
Monday, January 8, 2018 at 6:00 p.m.

Below is a summary of the items to be discussed at the January 8, 2018 Committee of the Whole meeting.

IV. **Minutes:** Included on the agenda are minutes from the December 11, 2017 Committee of the Whole meeting.

V. **Discussion**

a. **Special Events:** Documents are included in the COW Packet as a starting point for Board-level conversation regarding the number, content, and return on investment of Village-involved events that occur throughout the year.

VI. **Agenda Items**

*January 8, 2018*

a. **Administrative Support PD Position:** Staff is requesting authorization to fill a regular, full-time Administrative (Office) Assistant position. The position currently provides support for our records and investigations divisions.

b. **Police Squad Car Purchase:** The Police Department seeks to replace two squad cars provided to the patrol and administration divisions for their official responsibilities. The vehicles are in the budget for 2018.

c-d. **Snow & Ice Removal:** Staff is seeking Board approval to enter into a two new two-year service agreements with Acres Group for the purpose of providing snow and ice removal services for the Chippendale Subdivision, the Commuter Lot and Barrington Village Center.

e. **Wild Asparagus Contract:** At this time we are recommending an Independent Contractor Agreement for Event Staffing at Barrington’s White House with Thyme Management Inc., dba Wild Asparagus Catering. They will be providing staffing for events at the house.

f. Clarify, as necessary, items included on tonight’s Board Agenda.

VII. **Updates**

a. **Projects:**

**NPDES Permit:** One of the conditions of our National Pollution Discharge Elimination System (NPDES) Permit is to update the Village Board annually on the status of this permit. The permit requires municipalities to develop and enforce Storm Water Management Programs, designed to reduce pollutants from entering streams, rivers, or any other water ways, in order to protect water quality. The Board should also know that between the Public Works Department and



VILLAGE OF

*a great place to live, work, and play*

# BARRINGTON

## Committee of the Whole Report

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**To:** Village President and Board of Trustees

**From:** Mark Werksman, Director of Public Works

**Subject:** National Pollution Discharge Elimination System (NPDES) Permit  
Storm Water Management Village Board Annual Update

**Date:** January 22, 2018

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### EXECUTIVE SUMMARY

One of the conditions of our National Pollution Discharge Elimination System (NPDES) Permit is to annually update the Village Board on the status of this permit. The permit requires municipalities to develop and enforce Storm Water Management Programs, designed to reduce pollutants from entering streams, rivers, or any other water ways, in order to protect water quality. The Board should also know that between the Public Works Department and the Development Services Department, staff collectively works to achieve this goal. Some of the tools used to reduce pollutants are, **public education, construction enforcement, annual testing of our storm water outfall locations, and annual employee training.**

Last year (2017) we accomplished a major requirement under our permit and that was the new Illicit Discharge Connection Ordinance. This ordinance establishes methods for controlling the introduction of pollutants into the municipal storm sewer system. It also provides for the health, safety and general welfare of our residents.

# Construction Site Runoff Control

Address	Reference No	Type of Work	Date	Notes
139 Raymond Ave	B17-0231	New Construction	4/26/2017	
1475 S Barrington Rd	B17-0229	Parking Lot	4/25/2017	ILR10 Permit
200 Lageschulte St	B17-0087	Site Development	3/8/2017	ILR10 Permit
207 W Hillside Ave	B17-0530	New Construction	8/1/2017	
22 E Dundee Rd	B17-0601	Site Development	8/28/2017	ILR10 Permit
327 E Hillside Ave	B17-0861	New Construction	11/30/2017	
405 Foxglove Ln	B17-0586	New Construction	8/21/2017	
413 Drury Ln	B17-0155	New Construction	4/6/2017	
424 Washington St	B17-0855	New Construction	11/30/2017	
515 W Main St	B17-0743	Site Development	10/12/2017	
532 Division St	B17-0814	Demolition, Exterior	11/7/2017	
637 S Grove Ave	B17-0274	New Construction	5/4/2017	
643 S Grove Ave	B17-0259	Addition	5/3/2017	
649 S Grove Ave	B17-0794	New Construction	10/31/2017	
720 Cumnor Ave	B17-0413	Site Development	6/19/2017	ILR10 Permit
744 Division St	B17-0487	New Construction	7/14/2017	
748 Prairie Ave	B17-0877	New Construction	12/11/2017	
826 S Grove St	B17-0613	New Construction	8/29/2017	
851 Summit St	B17-0807	New Construction	11/6/2017	
900 Summit St	B17-0316	New Construction	5/15/2017	

# Construction Site Runoff Control

Address	Reference No	Type of Work	Date	Notes
129 W Hillside Ave	PMT17-0049	New Construction	5/16/2017	Code/Ordinance Violation
411 E Hillside Ave	B17-0432	Alteration, Interior	2/7/2018	Pre-Construction Meeting
22 E Dundee Rd	B17-0601	Site Development	8/28/2017	Pre-Construction Meeting

# Outfall & Detention Basin Inspections

Unique #	Section #	Location	Date	Rain Date	Flow	Notes
1	NE1	Bet. Miller Park & Union R.R.	7/31/2017	7/26/2017	N	
2	NE1	Near Eastern Ave & Alley				Upstream inlet - to be removed from MS4 inventory
3	NE1	Northwest Hwy & Eastern Ave	6/6/2017		N	
4	NE1	Bakers Lake	6/26/2017	6/23/2016	N	
Basin	NE1	Bakers Lake	6/26/2017	6/23/2016		
5	NE1	Bakers Lake Savanna				Overgrowth/ cannot locate or inspect
Basin	NE1	Bakers Lake savanna	6/26/2017	6/23/2016		
6	NE1	Lutheran Church on Main St	7/17/2017	7/12/2017	N	
7	NE2	Main St in front of High School	7/17/2017	7/12/2017	N	
8	NE2	Flint Creek				Overgrowth/ cannot locate or inspect
9	NE2	510 Westwood Dr	7/17/2017	7/12/2017	N	
10a	NE35	Warehouse near N Scott Ave	7/17/2017	7/12/2017	N	
10b	NE35	Warehouse near N Scott Ave	7/17/2017	7/12/2017	N	
10c	NE35	Warehouse near N Scott Ave	7/17/2017	7/12/2017	N	
11a	NE35	GE Healthcare/Western	7/17/2017	7/12/2017	N	
11b	NE35	GE Healthcare/Western	7/17/2017	7/12/2017	Y	
11c	NE35	GE Healthcare/Western	7/17/2017	7/12/2017	N	
12	NE35	Roslyn Road School	7/17/2017	7/12/2017	N	

# Outfall & Detention Basin Inspections

Unique #	Section #	Location	Date	Rain Date	Flow	Notes
13a	NW35	Foundry Detention (20th St)	7/17/2017	7/12/2017	N	
13b	NW35	Foundry Detention (20th St)	7/17/2017	7/12/2017	Y	
13c	NW35	Foundry Detention (20th St)	7/17/2017	7/12/2017	N	
13d	NW35	Foundry Detention (20th St)	7/17/2017	7/12/2017	Y	
Basin	NW35	Foundry Basin	7/17/2017	7/12/2017		
14	NW35	Across N Hart Rd & NW Hwy				Overgrowth/ cannot locate or inspect
15	NW35	NW Hwy				Overgrowth/ cannot locate or inspect
16	NW35	Union RR & NW Hwy				Overgrowth/ cannot locate or inspect
17	NW35	Union RR & NW Hwy				Overgrowth/ cannot locate or inspect
18a	NW35	Off Old Hart Road	7/17/2017	7/12/2017	Y	
18b	NW35	Off Old Hart Road	7/17/2017	7/12/2017	N	
18c	NW35	Off Old Hart Road	7/17/2017	7/12/2017	N	
18d	NW35	Off Old Hart Road	7/17/2017	7/12/2017	Y	
18e	NW35	Off Old Hart Road	7/17/2017	7/12/2017	N	
18f	NW35	Off Old Hart Road	7/17/2017	7/12/2017	N	
18g	NW35	Off Old Hart Road	7/17/2017	7/12/2017	N	
19a	NW36	Hampstead Ct				Overgrowth/ cannot locate or inspect
19b	NW36	Hampstead Ct Culdesac				Overgrowth/ cannot locate or inspect

# Outfall & Detention Basin Inspections

Unique #	Section #	Location	Date	Rain Date	Flow	Notes
Basin	NW36	Carriage Trail Basin				
20	NW36	Off Covinton Dr	7/18/2017	7/12/2017	Y	
21	NW36	End of Fairfax Ct.	7/18/2017	7/12/2017	N	
22	NW36	Off Covinton Dr	7/17/2017	7/12/2017	N	
23	NW36	George Town Ln.	7/18/2017	7/12/2017	Y	
24	NW36	Flint Creek				Overgrowth/ cannot locate or inspect
25	NW36	Flint Creek	7/18/2017	7/12/2017	N	
26	NW36	Flint Creek & NW Hwy				Overgrowth/ cannot locate or inspect
27	NW36	Canadian RR on Flint Creek				Overgrowth/ cannot locate or inspect
28a	NW36	Prospect Ave & NW Hwy	7/18/2017	7/12/2017	N	
28b	NW36	Prospect Ave & NW Hwy	7/18/2017	7/12/2017	N	
Basin	NW36	Chase Bank Basin	7/18/2017	7/12/2017		
29	SW6	Hillside Rd & Lakewood Dr.	7/18/2017	7/12/2017	N	
Basin	SW6	Lakeview Basin	7/18/2017	7/12/2017		
30	SW6	Hillside Rd & Lakewood Dr.	7/18/2017	7/12/2017	Y	
31a	SE12	W of Grove Across Park Barr.				Overgrowth/ cannot locate or inspect
31b	SE12	W of Grove Across Park Barr.				Overgrowth/ cannot locate or inspect
Basin	SE12	Reserves Basin #1	6/27/2017	6/23/2017		

# Outfall & Detention Basin Inspections

Unique #	Section #	Location	Date	Rain Date	Flow	Notes
32a	SE12	W of Grove Ave	7/18/2017	7/12/2017	N	
32b	SE12	W of Grove Ave	7/18/2017	7/12/2017	N	
32c	SE12	W of Grove Ave	7/18/2017	7/12/2017	N	
Basin	SE12	Motorwerks Basin	7/18/2017	7/12/2017		
33a	SE12	Park Barrington	7/18/2017	7/12/2017	N	
33b	SE12	Park Barrington	7/18/2017	7/12/2017	N	
33c	SE12	Park Barrington	7/18/2017	7/12/2017	N	
Basin	SE12	Park Barrington Basin	7/18/2017	7/12/2017		
34	SE12	N Dundee Road				Overgrowth/ cannot locate or inspect
Basin	SE12	Brentwood Basin				
35	SE12	N Barrington Middle School	7/19/2017	7/12/2017	N	
36a	SE12	E Barrington Middle School	7/19/2017	7/12/2017	N	
36b	SE12	E Barrington Middle School	7/19/2017	7/12/2017	N	
Basin	SE12	Prairie School Basin	7/19/2017	7/12/2017		
37a	SW12	End of Cascade Ct	6/27/2017	6/23/2017	Y	
37b	SW12	End of Cascade Ct	6/27/2017	6/23/2017	N	
37c	SW12	End of Cascade Ct	6/27/2017	6/23/2017	N	
Basin	SW12	Oaks of Barrington Basin#1	6/27/2017	6/23/2017		

# Outfall & Detention Basin Inspections

Unique #	Section #	Location	Date	Rain Date	Flow	Notes
38	SW12	N Manchester Drive	6/27/2017	6/23/2017	N	
39	SW12	W Columbia Ln	6/27/2017	6/23/2017	N	
Basin	SW12	Oaks of Barrington Basin#2	6/27/2017	6/23/2017		
40a	SW12	E Columbia Ln	6/27/2017	6/23/2017	Y	
40b	SW12	End of S Cascade Ct	6/27/2017	6/23/2017	N	
40c	SW12	End of S Cascade Ct	6/27/2017	6/23/2017	N	
Basin	SW12	Oaks of Barrington Basin#3	6/27/2017	6/23/2017		
41	SW12	Area Surrounding Pond	6/27/2017	6/23/2017		Overgrowth/ cannot locate or inspect
Basin	SW12	Reserves Basin #2	6/27/2017	6/23/2017		
43	SE 35	N of High School	6/27/2017	6/23/2017		Overgrowth/ cannot locate or inspect
44	SE 35	Flint Creek	6/27/2017	6/23/2017	N	
45	SE 35	Flint Creek	6/27/2017	6/23/2017	N	
46a	SE 35	Canadian RR	6/27/2017	6/23/2017	N	
46b	SE 35	Canadian RR	6/27/2017	6/23/2017	N	
47	SE 35	Union RR on Flint Creek	6/27/2017	6/23/2017	Y	
48	SE 35	Union RR on Flint Creek				
49a	SE 35	Langendorf Park				Overgrowth/ cannot locate or inspect
49b	SE 35	Langendorf Park				Overgrowth/ cannot locate or inspect

# Outfall & Detention Basin Inspections

Unique #	Section #	Location	Date	Rain Date	Flow	Notes
49c	SE 35	Langendorf Park				Overgrowth/ cannot locate or inspect
Basin	SE 35	Langendorf Park Basin	6/27/2017	6/23/2017		
50	SW 36	W Liberty St				Overgrowth/ cannot locate or inspect
51a	SW 36	W Hough St				Overgrowth/ cannot locate or inspect
51b	SW 36	W Hough St				Overgrowth/ cannot locate or inspect
51c	SW 36	W Hough St				Overgrowth/ cannot locate or inspect
52	SW 36	W Hough St				Submerged
53	SW 36	W Hough St				Submerged
54	SW 36	W Hough St	7/28/2017	7/26/2017	Y	
55	SW 36	W Hough St	7/28/2017	7/26/2017	Y	
56	SW 36	W Hough St	7/28/2017	7/26/2017	Y	
57	SW 36	E Hough St.				Submerged
58	SW 36	RR				Submerged
59	SW 36	W North Ave	7/5/2017	6/30/2017	N	
Basin	SW 36	Public Safety Basin	7/5/2017	6/30/2017		
60a	SE 36	NW Hwy	8/7/2017	8/3/2017	Y	
60b	SE 36	NW Hwy				Submerged
60c	SE 36	NW Hwy				Submerged

# Outfall & Detention Basin Inspections

Unique #	Section #	Location	Date	Rain Date	Flow	Notes
Basin	SE 36	Garlands Basin #1	8/7/2017	8/3/2017		
61	SE 36	Citizens Park				Submerged
62a	SE 36	Detention	7/5/2017	6/30/2017	N	
62b	SE 36	Detention	7/5/2017	6/30/2017	Y	
62c	SE 36	Detention	7/5/2017	6/30/2017	N	
62d	SE 36	Detention	7/5/2017	6/30/2017	N	
62e	SE 36	Detention	7/5/2017	6/30/2017	N	
62f	SE 36	Detention	7/5/2017	6/30/2017	N	
Basin	SE 36	Garlands Basin #2	7/5/2017	6/30/2017		
63a	SE 36	Detention	7/31/2017	7/26/2017	Y	
63b	SE 36	Detention	7/31/2017	7/26/2017	N	
Basin	SE 36	Garlands Basin #3	7/31/2017	7/26/2017		
64a	SE 36	Detention	7/31/2017	7/26/2017	N	
64b	SE 36	Detention	7/31/2017	7/26/2017	N	
64c	SE 36	Detention	7/31/2017	7/26/2017	Y	
64d	SE 36	Detention	7/31/2017	7/26/2017	Y	
64e	SE 36	Detention	7/31/2017	7/26/2017	N	
64f	SE 36	Detention	7/31/2017	7/26/2017	N	

# Outfall & Detention Basin Inspections

Unique #	Section #	Location	Date	Rain Date	Flow	Notes
Basin	SE 36	Eastgate Basin	7/31/2017	7/26/2017		
65a	SE 36	Citizens Park				Overgrowth/ cannot locate or inspect
65b	SE 36	Citizens Park				Overgrowth/ cannot locate or inspect
66	SE31	Lake Louise	5/31/2017	5/26/2017	Y	

# Pollution Prevention / Good Housekeeping

Description	Date	Completed By	Notes
Monthly Inspection and Assessment Public Works - Streets	3/14/2017	Ralph Kuhlman	
Monthly Inspection and Assessment Public Works	3/14/2017	Mike Casper	
Monthly Inspection and Assessment Public Works - Streets	4/12/2017	Ralph Kuhlman	
Monthly Inspection and Assessment Public Works	4/14/2017	Mike Casper	
Monthly Inspection and Assessment Public Works - Streets	5/2/2017	Ralph Kuhlman	
Monthly Inspection and Assessment Public Works	5/18/2017	Mike Casper	
Monthly Inspection and Assessment Public Works	6/5/2017	Mike Casper	
Monthly Inspection and Assessment Public Works - Streets	6/3/2017	Ralph Kuhlman	
Monthly Inspection and Assessment Public Works - Streets	7/14/2017	Ralph Kuhlman	
Monthly Inspection and Assessment Public Works	7/28/2017	Mike Casper	
Monthly Inspection and Assessment Public Works - Streets	8/7/2017	Ralph Kuhlman	Scheduled to load concrete and asphalt from storage yard. Removed spoils from storage yard.
Monthly Inspection and Assessment Public Works	8/23/2017	Mike Casper	

# Pollution Prevention / Good Housekeeping

Description	Date	Completed By	Notes
Monthly Inspection and Assessment Public Works	9/11/2017	Ralph Kuhlman	Recently loaded out concrete and asphalt piles and have dirt scheduled to be removed this month.
Monthly Inspection and Assessment Public Works	9/26/2017	Mike Casper	
Monthly Inspection and Assessment Public Works	10/3/2017	Ralph Kuhlman	
Monthly Inspection and Assessment Public Works	10/9/2017	Mike Casper	
Monthly Inspection and Assessment Public Works	11/1/2017	Ralph Kuhlman	
Monthly Inspection and Assessment Public Works	11/27/2018	Phil Freund	
Monthly Inspection and Assessment Public Works	12/12/2017	Phil Freund	
Monthly Inspection and Assessment Public Works Facility - Streets	12/21/2017	Ralph Kuhlman	
Monthly Inspection and Assessment Public Works Facility - Streets	1/4/2018	Ralph Kuhlman	New flammable storage cabined purchased and put into service.
Monthly Inspection and Assessment Public Works Facility - Fleet	1/23/2018	Jeff Bixby	
Monthly Inspection and Assessment Public Works Facility - Streets	2/12/2018	Ralph Kuhlman	

# Pollution Prevention / Good Housekeeping

Description	Date	Completed By	Notes
Monthly Inspection and Assessment Public Works Facility - Fleet	2/28/2018	Jeff Bixby	
Annual Inspection and Assessment for Public Works Facility - Fleet Division	2/28/2018	Jeff Bixby	
Annual Inspection and Assessment for Public Works Facility - Street Division	2/28/2018	Ralph Kuhlman	

# Pollution Prevention Materials Tracking

Description	Units	TOTALS	2016										2017	
			March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
Catch Basin/Inlet Cleaned	# of catch basins/inlets	67.0	14	5	13	0	4	27	1	0	3	0	0	0
Catch Basin Debris Removed	Yards	49.5	18	6	6	0	2	11	0.5	0	6	0	0	0
CB/Inlet Repaired/Replaced	# of catch basins/inlets	8.0	2	1	2	1	1	0	1	0	0	0	0	0
Feet of storm line cleaned	Linear Feet	699.0	123	0	66	0	420	65	25	0	0	0	0	0
Adopt-A-Hwy Clean-up's	# of Events	4.0	0	0	0	2	0	0	0	0	2	0	0	0
Street Sweeping	Cubic Yards	916.0	8	48	22	42	30	30	80	261	377	18	0	0
Recycling	Tons	1,387.0	115.4	104.59	111.5	140.6	108.22	111.1	130.38	98.51	119.84	148.9	105.44	92.59
Salt Used	Tons	1,412.0	167.6	0	0	0	0	0	0	0	0	397.9	393.8	452.7
Liquid/Tri Mix Used	Gallons	9,590.0	440	0	0	0	0	0	0	0	0	1900	2250	5000
Sanitary MH Repaired/Replaced	# of manholes	3.0	1	0	0	0	0	0	1	1	0	0	0	0
Tire Disposal	# of tires	-	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Batteries	# of batteries	15.0	4	1	0	0	1	0	1	1	1	3	3	0
Used Oil Recycled	Gallons	375.0	0	0	375	0	0	0	0	0	0	0	0	0
Used Coolant Rec.	Gallons	-	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Spills	Gallons	8.0	1	2	0	0	1	0	1	0	0	2	0	1
Newsletter information: Sanitary back-ups April and October / Information articles March, April, May, June, July, September														
Website information is located under the Storm Water tab (annual report and storm water publications)														
Leaf litter is sent to: Midwest Organics Recycling, McHenry, Illinois														

# Training

Training Topic	Date	Instructor	Staff	Division	Notes
MS4 Training	9/18/2017	M. Szymanski	M. Symanski, R. Cerny, D. Linneman, D. Pezzetti	Buildings and Grounds/Forestry	Watched "Blue is the New Green". Reviewed Stormwater Pollution Prevention. Took quiz and reviewed answers.
MS4 Training	11/1/2017	G. Summers	M. Hansen, G. Most and G. Summers	Development Services	Watched "Blue is the New Green". Reviewed Stormwater Pollution Prevention. Took quiz and reviewed answers.
MS4 Training	9/6/2017	M. Casper	J. Bixby, J. Engelking, J. Rojas, M. Casper	Fleet Division	Watched "Blue is the New Green". Reviewed Stormwater Pollution Prevention. Took quiz and reviewed answers.
MS4 Training	8/30/2017	R. Kuhlman	R. Kuhlman, K. Alongi, D. Everhart, C. Huzsek, J. White	Street Division	Watched "Blue is the New Green". Reviewed Stormwater Pollution Prevention. Took quiz and reviewed answers.
MS4 Training	9/28/2017	R. Kuhlman	P. Freund, A. Doherty, C. Justes, B. Larsen, J. Novelli, P. Rice	Utility	Watched "Blue is the New Green". Reviewed Stormwater Pollution Prevention. Took quiz and reviewed answers.
MS4 Training	9/28/2017	R. Kuhlman	T. Schaeffer, S. Hildebrandt, B. Vogt	Buildings and Grounds/Forestry	Watched "Blue is the New Green". Reviewed Stormwater Pollution Prevention. Took quiz and reviewed answers.
MS4 Training	9/27/2017	D. Schmidt	D. Schmidt, M. Casper, M. Bowman, K. Fecske, A. Foley, T, Mauro	Water Production and Treatment	Watched "Blue is the New Green". Reviewed Stormwater Pollution Prevention. Took quiz and reviewed answers.

# Water Quality Testing

Baker's Lake Site							
Parameter	Accepted Limits	Test Results					
		2012	2013	2014	2015	2016	2017
Ammonia (mg/L)	15	0.16	0.04	0.04	0.04	0.03	0.27
BOD (mg/L)	<8.0	8.00	8.00	7.00	8.00	14.00	12.00
Phosphorous, Total (mg/L)	0.05	0.11	0.18	0.05	0.18	0.67	0.89
Total Suspended Solids (mg/L)	15.0-30.0	18.00	77.00	47.00	0.18	170.00	258.00
pH	6.5 – 9.0	8.50	9.80	8.90	9.80	10.20	7.80

Lake Zurich Road Site							
Parameter	Accepted Limits	Test Results					
		2012	2013	2014	2015	2016	2017
Ammonia (mg/L)	15	0.01	0.11	0.12	0.11	0.17	0.64
BOD (mg/L)	<8.0	1.00	3.00	5.00	3.00	7.00	11.00
Phosphorous, Total (mg/L)	0.05	0.47	0.37	0.15	4.16	0.56	0.64
Total Suspended Solids (mg/L)	15.0-30.0	5.00	0.00	2.00	0.00	12.00	5.00
pH	6.5 – 9.0	8.00	7.70	7.90	7.70	8.00	7.70

5 Hart Road Site							
Parameter	Accepted Limits	Test Results					
		2012	2013	2014	2015	2016	2017
Ammonia (mg/L)	15	0.01	0.04	0.08	0.04	0.07	0.06
BOD (mg/L)	<8.0	5.00	3.00	3.00	3.00	6.00	3.00
Phosphorous, Total (mg/L)	0.05	0.38	4.16	1.62	4.16	1.68	1.67
Total Suspended Solids (mg/L)	15.0-30.0	9.00	1.00	0.00	1.00	5.00	3.00
pH	6.5 – 9.0	7.70	8.00	7.94	8.00	8.00	8.00

## Part D. MS4 Summary of Year 16 Stormwater Activities

The table below indicates the stormwater management activities that the Village of Barrington plans to undertake during Year 16. Additional information about the BMPs and measurable goals that the Village of Barrington will implement during Year 16 is provided in the section following the table.

**Note: X indicates BMPs that will be implemented during Year 16.**

Year 16 Village of Barrington	
<b>A. Public Education and Outreach</b>	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
	A.4 Community Event
	A.5 Classroom Education Material
X	A.6 Other Public Education
<b>B. Public Participation/Involvement</b>	
	B.1 Public Panel
	B.2 Educational Volunteer
	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
X	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection and</b>	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation
X	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 16 Village of Barrington	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance
X	F.3 Municipal Operations Stormwater Control
	F.4 Municipal Operations Waste
	F.5 Flood Management/Assess
	F.6 Other Municipal Operations Controls

## **Stormwater Management Activities, Year 16**

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

The Village of Barrington utilizes a variety of methods to educate and provide outreach to the public about the impacts of storm water discharges on waterbodies and the steps that the public can take to reduce pollutants in storm water runoff. Outreach publications include Village contact information to encourage residences to report environmental concerns. The Village plans to continue to implement the following BMPs as outlined in the Village's SWMP:

- Distribution of Educational Materials
- Household Hazardous Waste Program
- Residential Recycling & Refuse Program

#### **Measurable Goals**

1. Continue to implement the and track progress of BMPs as described in the SWMP.

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

The Village of Barrington is committing to implementing the Public Participation/Involvement component of its SWMP. The Public Participation and Involvement Program allows input from citizens regarding implementation of the SWMP. The Village plans to continue to implement the following BMPs as outlined in the Village's SWMP:

- Public Review
- Environmental Justice Area Review
- Complaints, Suggestions, and Requests
- Watershed Planning and Stakeholders Meetings

#### **Measurable Goals**

1. Continue to implement the and track progress of BMPs as described in the SWMP.

### **C. Illicit Discharge Detection and Elimination Program**

The Village of Barrington is committed to perform activities related to the illicit discharge component of its SWMP. The Village plans to continue to implement the following BMPs as outlined in the Village's SWMP:

- Storm Sewer System Map
- Enforcement of the Lake County Watershed Development Ordinance
- Visual Dry Weather Inspection Program
- Public Notification

#### **Measurable Goals**

1. Continue to implement the Illicit Discharge Detection and Elimination Program and track progress as described in the SWMP.

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

The Village of Barrington has adopted the Lake County Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County. The WDO, which is administered and enforced within the community by the Village of Barrington, establishes standards for construction site runoff control. The Village continues to have in place a website based Citizen Service Request system to provide a mechanism for citizens to report issues. The Village plans to continue to implement the following BMPs as outlined in the Village's SWMP:

- Site Plan Review
- Construction Site Inspections & Enforcement

### **Measurable Goals**

1. Continue to implement the and track progress of BMPs as described in the SWMP.

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

As described above, the WDO establishes the minimum stormwater management requirements for development in the village. The WDO establishes standards for post-construction site runoff control. The Village plans to continue to implement the following BMPs as outlined in the Village's SWMP:

- Regulatory Program
- Storm Water Management Facility Inspections

### **Measurable Goals**

1. Continue to implement the and track progress of BMPs as described in the SWMP.

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

The Village of Barrington is committing to implementing the Pollution Prevention/Good Housekeeping component of its SWMP. This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. This program must include a training program for municipal employees. The Village also follows the Storm Water Pollution Prevention Plan (SWPPP) prepared for the public works facility and conducts monthly and annual inspections. The Village of Barrington will continue to implement their SWMP which includes a training program for municipal employees. The Village of Barrington will examine and subsequently alter their actions to help ensure a reduction in the amount and type of pollution. Various pollution types include material that collects on streets, parking lots, open spaces, and storage and vehicle maintenance areas and is discharged into local waterways. The Village will continue to evaluate "sensible salting" procedures relating to a reduction in chloride use. The Village will conduct regular inlet/catch basin cleaning and street sweeping. The Village continues to organize events to help reduce pollution and floatable material. The Village plans to continue to implement the following BMPs as outlined in the Village's SWMP:

- Catch Basin/Inlet Cleaning
- Public Works Washing Station Facility
- Material Storage Handling
- Street Sweeping
- Landscape Maintenance
- Snow Removal and Ice Control

- Vehicle and Equipment Maintenance
- Waste Management
- Special Events
- Spill Response Plan

**Measurable Goals**

1. Continue to implement the and track progress of BMPs as described in the SWMP.

## Part E. Notice of Qualifying Local Program

The Lake County Stormwater Management Commission (SMC) serves as a Qualifying Local Program (QLP) for MS4s in Lake County. In accordance with IEPA's General NPDES Permit No. ILR40, as a QLP, SMC performs activities related to each of the six minimum control measures. This part of the Annual Report, which summarizes the stormwater management activities performed by SMC as a QLP, consists of the following five sections:

- **Part E1** identifies changes to Best Management Practices (BMPs) that occurred during Year 15 and includes information about how these changes affected the QLP's stormwater management program.
- **Part E2** describes the stormwater management activities that the QLP performed during Year 15.
- **Part E3** summarizes the information and data collected by the QLP during Year 15.
- **Part E4** describes the stormwater management activities that the QLP plans to undertake during Year 16.
- **Part E5** lists the construction projects conducted by the QLP during Year 15.

## Part E1. QLP Changes to Best Management Practices, Year 15

**Note: “X” indicates BMPs that were implemented as planned**

**✓ indicates BMPs that were changed during Year 15**

Year 15	
QLP	
<b>A. Public Education and Outreach</b>	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
<b>B. Public Participation/Involvement</b>	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Coordination
	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection and Elimination</b>	
	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
	C.4 Illicit Discharge Tracing Procedures
	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
X	C.10 Other Illicit Discharge Controls

Year 15	
QLP	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

## Part E2. QLP Status of Compliance with Permit Conditions, Year 15

IEPA issued a new version of its General NPDES Permit No. ILR40 effective March 1, 2016 (the first day of Year 14). SMC has reviewed the new permit, compared it to the previous permit, summarized the changes, and evaluated what the changes appear to mean for Lake County MS4s. Based on these findings, SMC revised its SMPP template and provided it to communities in August 2016; the final draft was provided in November 2016.

The Lake County Stormwater Management Commission (SMC) serves as a Qualifying Local Program (QLP) for MS4s in Lake County. In accordance with IEPA's NPDES General Permit No. ILR40, as a QLP, SMC performs activities related to each of the six minimum control measures. The stormwater management activities that the QLP performed during Year 15 are described below.

### A. Public Education and Outreach

#### A.1 Distributed Paper Material

##### Measurable Goal(s):

- Distribute informational materials from “take away” rack at SMC. Upon request, distribute materials directly to municipalities for local distribution.

##### Year 15 QLP activities:

- SMC distributes a variety of informational materials related to stormwater management through its “take away” rack and website.
- Upon request, informational materials are distributed directly to Lake County MS4s in PDF format for use on community websites, in community newsletters, and in community “take away” racks.
- Provided NPDES related information via Facebook
- Provided a Watershed E-News in March 2017.
- SMC Developed a Voluntary Floodplain Buyout Program Handout in 2017, available as a PDF or in print (<https://lakecountyyil.gov/DocumentCenter/View/20510>).
- SMC developed in June 2017 a Landowner's Monitoring and Maintenance Guide for the Bull Creek Restoration Project Area in Beach Park, IL.

#### A.3 Public Service Announcement

##### Measurable Goal(s):

- Include public service announcement highlighting community accomplishments related to IEPA's NPDES Stormwater Program in “Watershed E-News”;
- Post watershed identification signage with LCDOT;
- Upon request or download “[The Big Picture: Water Quality, Regulations & NPDES](https://lakecountyyil.gov/DocumentCenter/View/16533)” to Lake County MS4s, (<https://lakecountyyil.gov/DocumentCenter/View/16533>).

##### Year 15 QLP activities:

- SMC includes announcements highlighting community accomplishments related to IEPA's NPDES Stormwater Program on its website, in its newsletter, and through other media outlets (url: <http://www.lakecountyyil.gov/2331/Newsletters-Annual-Reports>).
- Watershed identification signage is located throughout the county.

- SMC continues to make available “The Big Picture: Water Quality, Regulations & NPDES” presentation to Lake County MS4s.
- SMC developed a Flood Response Report in July 2017 covering the rain event impacts from July 11 and July 12, 2017.

#### **A.4 Community Event**

##### Measurable Goal(s):

- Sponsor or co-sponsor workshop on a topic related to IEPA’s NPDES Stormwater Program.

##### Year 15 QLP activities:

- SMC sponsored or co-sponsored many workshops and events on stormwater-related topics between March 1, 2017 and February 28, 2018, including:
  - SMC sponsored a Designated Erosion Control Inspector (DECI) Workshop held on Jan. 5/2017.
  - SMC co-sponsored a river cleanup for Chicago River Day on May 13, 2017 throughout the watershed.
  - SMC co-sponsored a Rain Barrel, Compost Bin, and Native Plant Sale held in Libertyville, IL on May 13, 2017.
  - SMC co-sponsored a Workshop for Homeowners Associations: Maintenance (Techniques and Practices) for Subdivision Drainage Systems in Kildeer, IL on May15, 2017.
  - SMC sponsored a Lake Michigan Plan Info Meeting for Communities on May 31,2017 in North Chicago, IL.
  - SMC co-sponsored Parking Lots & Sidewalks De-Icing Workshop held in Libertyville, IL on September 25, 2017.
  - SMC co-sponsored Roadway De-Icing Workshop held in Libertyville, IL on September 26, and 27, 2017.
  - SMC sponsored a Homeowners Floodproofing Expo and Workshop held in Libertyville, IL on October 19,2017.
  - SMC co-sponsored a Community Fall Workday at Mike Rylko Park in Buffalo Grove, IL within the Farrington Ditch on October 21, 2017.
  - SMC sponsored a Closeout Project Tour for the Bull Creek Streambank Restoration Project in Beach Park, IL within the Dead River subwatershed on November 28, 2017.

#### **A.5 Classroom Education**

##### Measurable Goal(s):

- Develop and compile information for stormwater educational kit for distribution upon request.
- Provide materials and training on storm sewer inlet stenciling kits to teachers upon request.

##### Year 15 QLP activities

- Stormwater educational materials were compiled for use at several public education events that were held between March 1, 2017 and February 28, 2018, including:
  - Loch Lomond Property Owners Association’s Loch Fest held in Mundelein, IL on July 29, 2017

- SMC presented as part of a career panel at the College of Lake County's Career Day on September 09, 2017.
- Homeowners Floodproofing Expo and Workshop held in Libertyville, IL on October 19, 2017.
- SMC presented as part of a career panel at Round Lake High School on November 14, 2017.
- SMC provided technical assistance with the Round Lake High School Student Group Flood Project on February 22, 2018. The group chose their topic and wanted to focus on flooding because many of them were affected by the July 2017 flood. They created a presentation to talk about flood hazards, why it occurs, and what can be done before, during, and after a flood event.

## **A.6 Other Public Education**

### Measurable Goal(s):

- Maintain and update the portion of the SMC website dedicated to IEPA's NPDES Stormwater Program with resource materials such as model ordinances, case studies, brochures and web links.
- Make "The Big Picture: Water Quality, Regulations & NPDES" presentation available to Lake County MS4s.

### Year 15 QLP activities:

- As new information and resource materials become available, they are posted to the SMC website and/or distributed directly to Lake County MS4s, (url:<https://lakecountyil.gov/2479/NPDES-Phase-II>).
- SMC continues to make available "The Big Picture: Water Quality, Regulations & NPDES" presentation to Lake County MS4s, (url:<https://lakecountyil.gov/DocumentCenter/View/16533>).
- SMC developed an ArcGIS geospatial web tool for Lake County MS4 programs that indicates TMDL statuses, 303(b), 305(d), HUC 12 watershed information and urbanized area information within an MS4 defined boundary, (url:<https://lakecountyil.maps.arcgis.com/apps/webappviewer/index.html?id=0d60824433734de3bb7905c1113a8539>).
- SMC maintains an ArcGIS geospatial web tool for Lake County within the Des Plaines River watershed, allowing the public to see an [Inventory of Stream and Detention Basin](#) Information, (url:<https://lakecountyil.maps.arcgis.com/apps/webappviewer/index.html?id=918c4042dcec431ba46b5c1a7030b46c&extent=-9835848.6057,5176480.893,-9738009.2095,5239847.1894,102100>).
- SMC maintains reference documents for stormwater best practices, BMPs and green infrastructure practices on its website, (url: <https://lakecountyil.gov/2261/Stormwater-Best-Practices>).
- SMC presented on the "Lake County's Wetland Restoration and Preservation Plan, part 1: Approach", on February 21, 2018 at the Wisconsin Wetlands Association 2018 Wetland Science Conference.
- SMC presented on the "Lake County's Wetland Restoration and Preservation Plan, part 2: GIS & decision support tool", on February 21, 2018 at the Wisconsin Wetlands Association 2018 Wetland Science Conference.

- SMC presented an overview of the “Lake County SMC sUAS Program” at Lake County GIS day on November 1, 2017 in Libertyville IL.
- SMC presented an “Overview of Flood Response Activities 2017 Flood Event – The Role of GIS” and an overview of “Lake County SMC’s sUAS Program” for the Lakes Region of the American Public Works Association on November 2, 2017.

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

### **B.1 Public Panel**

#### Measurable Goal(s):

- Provide notice of public meetings on SMC website. Track number of meetings conducted.

#### Year 15 QLP activities:

- Notice of all public meetings continues to be provided on the SMC website and through direct mailings and e-mailings to distribution lists.
- SMC tracked the number of Stormwater Management Committee Board (SMC) meetings, Technical Advisory Committee (TAC) meetings, Municipal Advisory Committee (MAC), and Watershed Management Board (WMB) meetings conducted during Year 15, between March 1, 2017 and February 28, 2018.
  - Per records, there were 9 SMC meetings, Zero TAC meetings, 4 MAC meetings, and 1 WMB meeting conducted during this reporting period.
- According to records, between March 1, 2017 and February 28, 2018, 16 CIRS community inquiries were received and processed by SMC staff.

### **B.3 Stakeholder Meeting**

#### Measurable Goal(s):

- Provide notice of stakeholder meetings on SMC website.
- Track number of watershed planning committee meetings conducted.
- Establish watershed planning committees for each new watershed planning effort.

#### Year 15 QLP activities:

- Notice of all stakeholder meetings continues to be provided on the SMC website and through direct mailings and e-mailings to stakeholder lists.
- SMC tracked the number of stakeholder meetings conducted for the various watershed planning committees during the reporting period. The list below summarizes the watershed planning committee meetings that were conducted during Year 15:
  - North Branch Chicago River Planning Committee – 3
  - Bull Creek/Bull’s Brook Watershed Council – 2
  - Buffalo Creek Clean Water Partnership – 0
  - Des Plaines Watershed Planning Committee – 10
  - Des Plaines River Watershed Workgroup – 4 (excluding executive board meetings)
  - North Branch Chicago River Watershed Workgroup– 2 (excluding executive board meetings)
- SMC continues to establish and/or assist watershed planning committees for each new watershed planning effort.

## **B.6 Program Coordination**

### Measurable Goal(s):

- Track number of MAC meetings conducted during Year 15.
- Prepare annual report on Qualifying Local Program activities at end of Year 15.

### Year 15 QLP activities:

- SMC tracked the number of Municipal Advisory Committee (MAC) meetings conducted during Year 15: According to records, there were 4 MAC meetings conducted during this reporting period. 3/8/17, 6/14/17, 9/13/17, and 12/13/17.
- The stormwater management activities that SMC performed as a QLP during Year 15 are described in the Annual Facility Inspection Report (i.e., Annual Report) template provided to Lake County MS4s.
- The stormwater management activities that SMC plans to perform as a QLP during Year 16 are described in Part E4 of the Annual Report template.

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

### **C.2 Regulatory Control Program**

#### Measurable Goal(s):

- Continue to enforce the countywide WDO.

#### Year 15 QLP activities:

- SMC continues to enforce the countywide WDO.
- Lake County continues to provide [the Lake County Illicit Discharge Detection and Elimination \(IDDE\) Manual](#) on the SMC website, (url: <https://lakecountyl.gov/DocumentCenter/View/17264>)

### **C.10 Other Illicit Discharge Controls**

#### Measurable Goal(s):

- Sponsor or co-sponsor and track the number of attendees at an Illicit Discharge Detection and Elimination workshop or other training workshop related to IEPA's NPDES Stormwater Program.

#### Year 15 QLP activities:

- SMC sponsored or co-sponsored many workshops and events on stormwater-related topics between March 1, 2017 and February 28, 2018. Such workshops and events are described above.

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

### **D.1 Regulatory Control Program**

#### Measurable Goal(s):

- Continue to enforce the countywide WDO.
- Administer the Designated Erosion Control Inspector (DECI) program outlined by the WDO.

#### Year 15 QLP activities:

- SMC continues to enforce the countywide WDO.
- SMC continues to administer the Designated Erosion Control Inspector (DECI) program as outlined by the WDO,

(url: <https://lakecountyil.gov/2470/Designated-Erosion-Control-Inspector-Pro>).

- Total DECI's who have passed the exam (to date): 703.
- DECI's who have passed the exam between 03/01/2017 – 02/28/2018: 99.
- Total listed DECI's (to date): 190 (DECI completed certification process).
- DECI's have a recertification process every (3) years. Current cycle 2017-2020.

## **D.2 Erosion and Sediment Control BMPs**

### Measurable Goal(s):

- Continue to enforce the countywide WDO.
- Complete TRM update and work toward final approval and publication of the document.

### Year 15 QLP activities:

- SMC continues to enforce the countywide WDO.
- SMC continues to provide technical guidance and reference materials to support the administration and enforcement of the countywide WDO.
- SMC staff distributed 81 rainfall weather notifications. The rainfall reports indicate county rain events with observed precipitation for construction site runoff SE/SC inspections.

## **D.3 Other Waste Control Program**

### Measurable Goal(s):

- Enforce WDO provisions regarding the control of waste and debris at construction sites.

### Year 15 QLP activities:

- SMC continues to enforce the countywide WDO.

## **D.4 Site Plan Review Procedures**

### Measurable Goal(s):

- Track number of enforcement officers who have passed the exam.
- Track number of communities that undergo a performance review.
- Complete ordinance administration and enforcement chapter of TRM.

### Year 15 QLP activities:

- SMC continues to track the number of enforcement officers (EOs) who have passed the EO exam and have become EOs. Per records, as of the end of Year 15, there are 99 EOs certified in Lake County.
- The list of EOs representing Certified Communities is continually updated and is maintained on the SMC website:  
(url: <https://lakecountyil.gov/DocumentCenter/View/14412>).
- SMC is in the current 5-year cycle of the community re-certification process, which includes a performance review of all 53 certified and non-certified communities for permitted development compliance from February 2, 2012 to October 1, 2017. The last recertification process occurred during a previous reporting period (i.e., Year 9). In accordance with the amended countywide WDO, the certification process is every 5 years, the next cycle of the community re-certification process is scheduled to begin in Year 20. (url: <https://lakecountyil.gov/2459/Community-Certification>)

- The SMC website includes guidance information to supplement the TRM related to WDO interpretation as well as ordinance administration and enforcement.

#### **D.5 Public Information Handling Procedures**

##### Measurable Goal(s):

- Track number of complaints received and processed related to soil erosion and sediment control (SE/SC).

##### Year 15 QLP activities:

- SMC continues to track the number of complaints received and processed related to soil erosion and sediment control.
- According to records, between March 1, 2017 and February 28, 2018, 8 SE/SC complaints were received and processed by SMC staff.

#### **D.6 Site Inspection/Enforcement Procedures**

##### Measurable Goal(s):

- Track number of site inspections conducted by SMC.

##### Year 15 QLP activities:

- SMC continues to track the number of site inspections conducted by SMC staff.
- According to records, between March 1, 2017 and February 28, 2018, 779 site inspections were conducted by SMC staff.
- SMC staff distributed 81 rainfall weather notifications. The rainfall reports indicate county rain events with observed precipitation for construction site runoff SE/SC inspections.

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

##### **E.2 Regulatory Control Program**

##### Measurable Goal(s):

- Continue to enforce the countywide WDO.

##### Year 15 QLP activities:

- SMC continues to enforce the countywide WDO.

##### **E.3 Long Term O&M Procedures**

##### Measurable Goal(s):

- Continue to enforce the countywide WDO.

##### Year 15 QLP activities:

- SMC continues to enforce the countywide WDO.

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

##### Measurable Goal(s):

- Continue to enforce the countywide WDO.

##### Year 15 QLP activities:

- SMC continues to enforce the countywide WDO.

##### **E.5 Site Inspections During Construction**

##### Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 15 QLP activities:

- SMC continues to enforce the countywide WDO.

### **E.6 Post-Construction Inspections**

Measurable Goal(s):

- Continue to enforce the countywide WDO.

Year 15 QLP activities:

- SMC continues to enforce the countywide WDO.

### **E.7 Other Post-Construction Runoff Controls**

Measurable Goal(s):

- Conduct annual Watershed Management Board (WMB) meeting.
- Contribute funding to flood reduction and water quality improvement projects, including stormwater retrofits, through the WMB.

Year 15 QLP activities:

- The annual WMB meeting was held on Dec. 6, 2017.
- At the annual WMB meeting 13 Projects were selected to receive \$173,253 of funding through the SMC grant program. These projects including planning and in the ground project efforts that support flood reduction, water quality improvement, and stormwater retrofit projects.
  - 8 WMB project grants awarded
  - 2 Stormwater Infrastructure Repair Fund (SIRF) project grant awarded
  - 1 Watershed Management Assistance (WMAG) project grant awarded

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

### **F.1 Employee Training Program**

Measurable Goal(s):

- Provide list of available resources to MS4s.
- Sponsor or co-sponsor employee training workshops or events.
  - Make available the Excal Visual Municipal Storm Water Pollution Prevention Storm Watch Everyday Best Management Practices training video and testing.

Year 15 QLP activities:

- SMC continues to provide information on training opportunities and training resources to Lake County MS4s.
- SMC sponsored or co-sponsored a number of workshops and events on stormwater-related topics between March 1, 2017 and February 28, 2018. Such workshops and events are described above.
- SMC continues to make available the Excal Visual Storm Watch Municipal Stormwater Pollution Prevention software to Lake County MS4s. According to records, between March 1, 2017 and February 28, 2018, Zero MS4 borrowed the Excal Visual software. (url: <http://lakecountyil.gov/2479/NPDES-Phase-II>)

## **F.5 Flood Management/Assess Guidelines**

### Measurable Goal(s):

- Track number of projects that are reviewed for multi-objective opportunities.

### Year 15 QLP activities:

- SMC continues to evaluate all SMC-sponsored projects for multi-objective opportunities, such as flood control and water quality.

## **F.6 Other Municipal Operations Controls**

### **Winter Roadway Deicing**

#### Measurable Goal(s):

- Advise MS4 communities of watershed groups addressing issues associated with the use of chlorides (i.e. road salt).

#### Year 15 QLP activities:

- SMC co-sponsored 3 de-icing workshops:
  - Deicing for Parking Lots and Sidewalks 9/25/2017.
  - Deicing Roads 9/26/2017 and 9/27/2017.
  - In total 184 attendees participated in these three workshops.
  - Since 2009 the deicing workshops have had a cumulative attendance of 1,200 attendees.
- A de-icing certification process to promote trained vendors is offered
  - Preferred Providers that successfully completed a Lake County Deicing Training Workshop and passed the Course Exam can be referenced on a Preferred Provider List (url: <https://www.lakecountyil.gov/DocumentCenter/Home/View/10767>).
  - Certification is through a third-party vendor, Fortin Consulting, Inc.
  - In 2017, 151 preferred providers have been identified based on certification.
- SMC continues to make available chloride reduction documents
  - Too Much Salt in Our Winter Maintenance Recipe - Tips for Managing Snow and Ice at Home (PDF) (url: <https://lakecountyil.gov/DocumentCenter/Home/View/3047>).
  - Lake County Winter Parking Lot and Sidewalk Maintenance Manual (2015) (PDF) (url: <https://lakecountyil.gov/DocumentCenter/Home/View/3044>).
  - Less Salt Equals Less Money, Clean Water, Safe Conditions - Tips for Effective Road Salting (PDF) (url: <https://lakecountyil.gov/DocumentCenter/Home/View/3045>).

### **Part E3. QLP Information and Data Collection Results, Year 15**

The QLP did not collect any monitoring data on behalf of Lake County's MS4s during Year 15. However, SMC has reviewed information presented by the [Illinois EPA \(IEPA\) in the 2016 Illinois Integrated Water Quality Report and 303\(d\) List](#) and has developed the brief "State of Lake County's Waters" report provided below.

#### **State of Lake County's Waters March 2018**

This brief report is based on information contained in the Illinois EPA's 2016 Illinois Integrated Water Quality Report (IIWQR) and Section 303(d) List, dated July 2016. Its purpose is to provide basic information to Lake County's MS4 communities on the condition of surface waters within Lake County. More detailed information about the condition of surface waters in Lake County can be found in the Illinois EPA's 2016 Illinois Integrated Water Quality Report and Section 303(d) List.

The Illinois EPA's 2016 IIWQR and Section 303(d) List assesses the condition of surface water within streams, inland lakes and Lake Michigan waters. The IEPA assessment of surface water conditions is based on a degree of support (attainment) of a designated use within a stream segment, inland lake or within Lake Michigan. Determination designation is through an analysis of various types of information: including biological, physicochemical, physical habitat, and toxicity data. Illinois waters are designated for various uses including aquatic life, wildlife, agricultural use, primary contact (e.g., swimming, water skiing), secondary contact (e.g., boating, fishing), industrial use, public and food-processing water supply, and aesthetic quality. When sufficient data is available the IEPA assesses each applicable designation as Fully Supporting (Good resource quality), Not Supporting (Fair or Poor resource quality), Not Assessed or Insufficient Information. Uses determined to be Not Supporting are called "impaired," and waters that have at least one-use assessment as Not Supporting are also called impaired as designated within the 303(d) list.

#### **Streams**

An analysis of data accompanying the Illinois EPA's 2016 IIWQR and Section 303(d) List shows that 179.68 stream miles in Lake County have been assessed by the Illinois EPA for attainment of at least one designated use per the IIWQR Appendix B-2. Specific Assessment Information for Streams, 2016.

An analysis of data accompanying the Illinois EPA's 2016 Illinois Integrated Water Quality Report and Section 303(d) List shows that 157.84 stream miles (of the 179.68 stream miles that have been assessed) in Lake County are considered impaired by the Illinois EPA. These stream segments have been mapped and are shown in Figure E3.1.

An analysis of the 2014 impaired streams to the 2016 impaired streams, indicates 8 stream miles previously listed in the 2014 303(d) list have new data indicating aquatic life is now "Fully Supported" and applicable water quality standards have been attained; these waters are no longer

included in the 2016 303(d) list. The IIWQR mentions there is no specified reason for the recovery.

Table E3.1 2014 303(d) streams removed from 2016 303(d) list						
Assessment ID	Name	Miles		Assessment ID	Name	Miles
IL_G-08	Des Plaines River	0.98		IL_QE-01	Dead Dog Creek	4.02
IL_GV-01	Bull Creek	2.33		IL_DTZS-01	Flint Creek	9.66
IL_RGZB	Hastings Lake	0.34		IL_RTJ	Long Lake	2.85
IL_DT-35	Fox River	5.03		IL_RHK	Eleanor Lake	0.36
IL_HCCB-05	West Fork North Branch	5.73		IL_GWA	North Mill Creek	6.62
IL_GST	Buffalo Creek	8.77		IL_RGZE	Slough Lake	0.42
IL_RGZA	Crooked Lake	1.00				

An analysis of the 2014 impaired streams to the 2016 impaired streams indicates 27 stream miles previously not listed in the 2014 303(d) list are now considered impaired in the 2016 303(d) list as new data indicates impairments.

Table E3.2 Stream Segments added to 2016 303(d) list not previously listed in 2014						
Assessment ID	Name	Miles		Assessment ID	Name	Miles
IL_HCCB-05	West Fork North Branch Chicago River	0.002		IL_QC-03	Waukegan River	1.47
IL_DTRA-W-C1	Fiddle Creek	0.003		IL_GU-02	Indian Creek	11.32
IL_GW-02	Mill Creek	12.96		IL_QA-C4	Pettibone Creek	1.24

### **Lakes**

An analysis of data accompanying the Illinois EPA's 2016 IIWQR and Section 303(d) List shows that 170 inland lakes in Lake County have been assessed by the Illinois EPA for attainment of at least one designated use per the IIWQR Appendix B-3. Specific Assessment Information for Lakes, 2016.

An analysis of data accompanying the Illinois EPA's 2016 IIWQR and Section 303(d) List shows that 140 inland lakes, of the 170 assessed, in Lake County are considered impaired by the Illinois EPA. These lakes have been mapped and are shown in Figure E3.1.

An analysis of the 2014 impaired lakes to the 2016 impaired lakes indicates 5 lakes previously not listed in the 2014 303(d) list are now considered impaired in the 2016 303(d) list as new data indicates impairments.

Table E3.3 Inland Lakes added to 2016 303(d) list not previously listed in 2014						
Assessment ID	Name	Acres		Assessment ID	Name	Acres
IL_RGZD	Miltmore	83.1		IL_VGW	Rollins Savanna #1	8
IL_RGK	Grays	80		IL_VGX	Rollins Savanna #2	53
IL_SGZ	Briarcrest Pond	4				

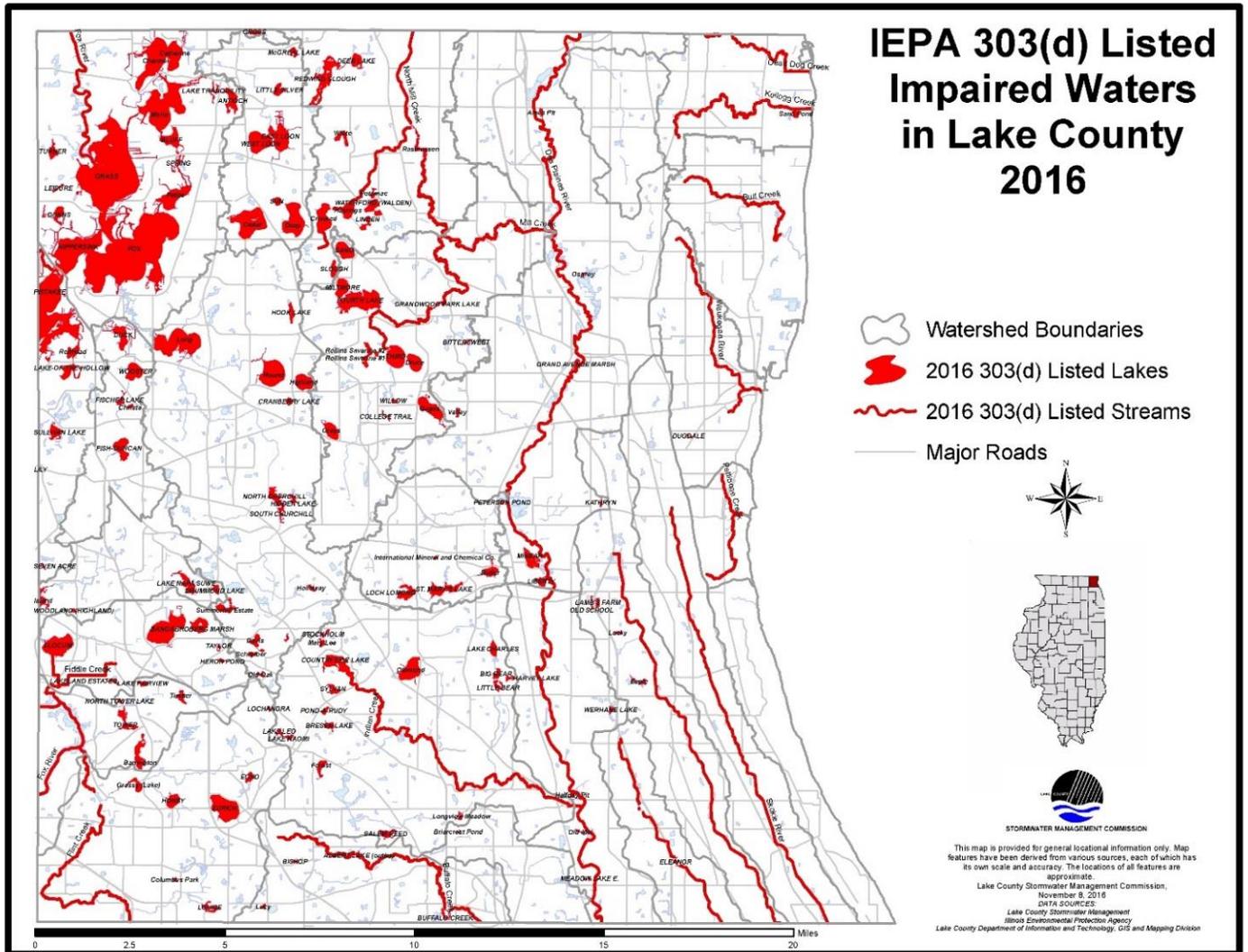


Figure E3.1

In addition to the information contained within the 303(b) and 303(d) reports, the Des Plaines River Watershed Workgroup (DRWW) founded in 2015, on behalf of its members, monitors water quality in the Des Plaines River and tributaries, prioritize and implement water quality improvement projects, and secure grant funding to offset the cost. Monitoring data will allow for a greater understanding of the water quality impairments, identify priority restoration activities, and track water quality improvements. The Workgroup is committed to an approach for attaining water quality standards that focuses on stakeholder involvement, monitoring, and locally led decision-making based on sound science. An annual water chemistry monitoring report was submitted to IL EPA in March 2017, which covers the NPDES II monitoring requirements for MS4 communities that are DRWW members. A Des Plaines River Watershed monitoring strategy was completed in February 2016 and updated in March 2017; a monitoring program report was submitted to IEPA in January 2018. DRWW's comprehensive monitoring program includes chemical, physical and biological assessments during the current YR15 reporting period, DRWW's monitoring program includes: Water/Sediment sampling and analysis at 50 Monitoring Locations for 2017; Bioassessment monitoring at 23 monitoring locations; Continuous water quality monitoring with data sondes and chlorophyll a sampling and analysis at 14 Monitoring Locations; and Flow Monitoring data collection at 21 sites. An annual water chemistry monitoring report was submitted to IL EPA in March 2017, which covers the NPDES II monitoring requirements for MS4 communities that are DRWW members.

The NBWW is a newly developed watershed workgroup (1/17/2018) developing a monitoring program for water quality in the North Branch of the Chicago River and tributaries to accurately identify the quality of the river ecosystems as well as stressors associated with non-attainment of water quality standards and designated uses. Monitoring data will allow for a greater understanding of the water quality impairments, identify priority restoration activities, and track water quality improvements. The Workgroup is committed to an approach for attaining water quality standards that focuses on stakeholder involvement, monitoring, and locally led decision-making based on sound science. Comprehensive baseline monitoring will begin in 2018 and NBWW members will be able to include chemical, physical and biological components monitored by the workgroup.

The LCHD Lakes Management Unit has been collecting water quality data on Lake County lakes since the late 1960s. Since 2000, 176 different lakes each year have been studied and data collected on temperature, dissolved oxygen, phosphorus, nitrogen, solids, pH, alkalinity, chloride, conductivity, water clarity, the plant community and shoreline characteristics. Lake summary reports can be found <https://www.lakecountyil.gov/2400/Lake-Reports>. This data is used as part of ongoing watershed planning efforts throughout the county, which result in specific programmatic and site-specific recommendations throughout the county. SMC is currently developing an application to assist communities in identifying potential site-specific recommendations within their jurisdictional boundaries.

## Part E4. QLP Summary of Year 16 Stormwater Activities

The table below indicates the stormwater management activities that the QLP plans to undertake during Year 16. Additional information about the BMPs and measurable goals that the QLP will implement during Year 16 is provided in the section following the table.

Note: X indicates BMPs that will be implemented during Year 16

Year 16		Year 16	
QLP		QLP	
<b>A. Public Education and Outreach</b>		<b>D. Construction Site Runoff Control</b>	
X	A.1 Distributed Paper Material	X	D.1 Regulatory Control Program
X	A.2 Speaking Engagement	X	D.2 Erosion and Sediment Control BMPs
X	A.3 Public Service Announcement	X	D.3 Other Waste Control Program
X	A.4 Community Event	X	D.4 Site Plan Review Procedures
X	A.5 Classroom Education Material	X	D.5 Public Information Handling Procedures
X	A.6 Other Public Education	X	D.6 Site Inspection/Enforcement Procedures
			D.7 Other Construction Site Runoff Controls
<b>B. Public Participation/Involvement</b>		<b>E. Post-Construction Runoff Control</b>	
X	B.1 Public Panel		E.1 Community Control Strategy
	B.2 Educational Volunteer	X	E.2 Regulatory Control Program
X	B.3 Stakeholder Meeting	X	E.3 Long Term O&M Procedures
	B.4 Public Hearing	X	E.4 Pre-Const Review of BMP Designs
	B.5 Volunteer Monitoring	X	E.5 Site Inspections During Construction
X	B.6 Program Coordination	X	E.6 Post-Construction Inspections
	B.7 Other Public Involvement	X	E.7 Other Post-Const Runoff Controls
<b>C. Illicit Discharge Detection and Elimination</b>		<b>F. Pollution Prevention/Good Housekeeping</b>	
	C.1 Storm Sewer Map Preparation	X	F.1 Employee Training Program
X	C.2 Regulatory Control Program		F.2 Inspection and Maintenance Program
	C.3 Detection/Elimination Prioritization Plan		F.3 Municipal Operations Storm Water Control
	C.4 Illicit Discharge Tracing Procedures		F.4 Municipal Operations Waste Disposal
	C.5 Illicit Source Removal Procedures	X	F.5 Flood Management/Assess Guidelines
	C.6 Program Evaluation and Assessment	X	F.6 Other Municipal Operations Controls
	C.7 Visual Dry Weather Screening		
	C.8 Pollutant Field Testing		
	C.9 Public Notification		
X	C.10 Other Illicit Discharge Controls		

The Lake County Stormwater Management Commission (SMC) is a Qualifying Local Program for MS4s in Lake County. SMC has been providing services under four of the six minimum control categories since it began implementing a comprehensive, countywide stormwater program in 1991. The revised SMPP template clarifies and emphasizes the significant efforts by SMC related to each of the six minimum control measures. These QLP commitments provide

Lake County with a baseline Countywide stormwater management program that can be built upon by each of the individual MS4s.

During Year 16, SMC remains committed to performing a variety of stormwater management activities across the County, these commitments are now specifically outlined in the SMPP template. SMC program is continually evolving, to better assist Lake County MS4s in meeting the requirements of the new 2016 MS4 Permit.

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

SMC will continue to support Lake County MS4s in the development and implementation of their stormwater management programs by performing activities related to the Public Education and Outreach minimum control measure, as described below.

##### **A.1 Distributed Paper Material**

SMC compiles, develops, and distributes throughout Lake County a variety of materials related to stormwater management.

###### Measurable Goal(s):

- Develop and Distribute informational materials from “take away” rack at SMC.
- Upon request, distribute informational materials directly to Lake County MS4s for local distribution.

##### **A.2 Speaking Engagement**

SMC provides educational presentations related to IEPA’s NPDES Stormwater Program on a regular basis at Municipal Advisory Committee (MAC) meetings. Upon request, SMC will provide educational presentations related to IEPA’s NPDES Stormwater Program to Lake County MS4s.

###### Measurable Goal(s):

- Provide educational presentations related to IEPA’s NPDES Stormwater Program at MAC meetings.
- Upon request, provide educational presentations related to IEPA’s NPDES Stormwater Program (e.g., “[The Big Picture: Water Quality, Regulations & NPDES](#)”) to Lake County MS4s.

##### **A.3 Public Service Announcement**

SMC performs extensive Social Media Outreach & Announcement Activities. Public service announcement related to IEPA’s NPDES Stormwater Program or Stormwater BMPs are included in SMC’s watershed E-News. SMC also utilizes social media and coordinates with the Lake County Department of Transportation (LCDOT) to post watershed identification signage in watersheds where watershed planning activities have occurred or are occurring.

###### Measurable Goal(s):

- Include public service announcements related to IEPA’s NPDES Stormwater Program or stormwater BMPs in watershed E-News at least once each year.

- Post watershed identification signage in cooperation and collaboration with LCDOT.
- Provide information via social media (Facebook and Twitter).

#### **A.4 Outreach Events**

SMC sponsors and co-sponsors educational and technical training workshops on a variety of stormwater management-related topics. Each year, SMC will sponsor or co-sponsor at least one workshop on a topic related to IEPA's NPDES Stormwater Program, such as soil erosion and sediment control, illicit discharge detection and elimination, or stormwater best management practices (BMPs) that can be used to protect and improve water quality.

##### Measurable Goal(s):

- Sponsor or co-sponsor workshop on stormwater-related topics.
- Track workshops and events.

#### **A.5 Classroom Education Material**

Upon request, SMC will contribute to the development and compilation of material for inclusion in a stormwater education kit that can be distributed to local students and teachers and/or other local stakeholders. Additionally, upon request, SMC will provide information, materials, and training to local students and teachers and/or other local stakeholders interested in conducting storm drain stenciling.

##### Measurable Goal(s):

- Upon request, develop and compile materials for inclusion in a stormwater education kit.
- Upon request, provide information, materials, and training to local students and teachers and/or stakeholders interested in conducting storm drain stenciling.

#### **A.6 Other Public Education**

SMC maintains a website that contains a variety of materials and resources related to stormwater management. The website provides information about IEPA's NPDES Stormwater Program, provide information about stormwater best management practices (BMPs), allow for download of stormwater management-related publications and documents, provide notices of upcoming meetings and ongoing projects, includes watershed plans and watershed workgroup information, and provide links to a number of other stormwater management-related resources

##### Measurable Goal(s):

- Maintain and update the portion of the SMC website dedicated to IEPA's NPDES Stormwater Program with resources such as model ordinances, case studies, brochures, and links including information related to climate change.
- Make "The Big Picture: Water Quality, Regulations & NPDES" presentation available to Lake County MS4s.

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

SMC will continue to support Lake County MS4s in the development and implementation of their stormwater management programs by performing activities

related to the Public Participation/Involvement minimum control measure, as described below.

### **B.1 Public Panel**

SMC provides procedural guidance and implements its Citizen Inquiry Response System (CIRS) for receiving and taking action on information provided by the public regarding post-construction stormwater runoff control. SMC coordinates and conducts public meetings as well as committee meetings that are open to the public.

#### Measurable Goal(s):

- Implement and provide guidance on existing CIRS procedures.
- Provide notice of public meetings on SMC website.
- Track number of meetings conducted

### **B.3 Stakeholder Meeting**

SMC is actively involved in watershed planning throughout Lake County. SMC believes that the watershed planning process cannot happen and will not be successful without the input, interest, and commitment of the watershed stakeholders. Watershed stakeholders may include municipalities, townships, drainage districts, homeowner associations, lakes management associations, developers, landowners, and local, county, state, and federal agencies.

#### Measurable Goal(s):

- Provide notice of stakeholder meetings on SMC website.
- Track number of watershed committee meetings conducted.
- Establish watershed planning committees for each new watershed planning effort.

### **B.6 Program Involvement**

Consistent with Lake County's comprehensive, countywide approach to stormwater management, SMC serves as a Qualifying Local Program (QLP) for all Lake County MS4s. In this role, in 2002, SMC proactively formed the Municipal Advisory Committee (MAC) to provide a forum for representatives of local MS4s, which include municipalities, townships, and drainage districts, to discuss, among other topics, the implementation of IEPA's NPDES Stormwater Program. SMC will continue to facilitate quarterly MAC meetings and will continue to provide general support to Lake County MS4s as they continue to develop and implement their stormwater management programs. SMC will prepare an annual report on its stormwater management activities and will provide guidance to Lake County MS4s in preparing their own annual reports.

#### Measurable Goal(s):

- Track number of MAC meetings conducted.
- Prepare annual report template for use by Lake County MS4s including a description of the Qualifying Local Program stormwater management activities.
- Prepare/maintain SMPP template for use by Lake County MS4s in creating their own SMPP.

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

SMC will continue to support Lake County MS4s in the development and implementation of their stormwater management programs by performing activities related to the Illicit Discharge Detection and Elimination minimum control measure, as described below. Note, however, that the primary responsibility for the implementation of the Illicit Discharge Detection and Elimination minimum control measure lies with the MS4.

Measurable Goal(s):

- Continue to make available information regarding prioritization of outfalls for illicit discharge screening activities.
- Continue to make available compiled GIS data related to the County's existing stormwater infrastructure (e.g. storm sewer atlases, stream inventories and detention basin inventories).

### **C.2 Regulatory Control Program**

SMC provides local MS4s with model and example illicit discharge ordinances that prohibit all non-stormwater discharges, including illegal dumping, to the storm sewer system. Additionally, the WDO includes provisions that prohibit illicit discharges to the storm sewer system during construction (i.e., prior to final site stabilization) on development sites.

Measurable Goal(s):

- Provide model and example illicit discharge ordinances to Lake County MS4s.
- Continue to administer and enforce the WDO.

### **C.10 Other Illicit Discharge Controls**

SMC regularly sponsors and co-sponsors educational and technical training workshops on a variety of stormwater management-related topics.

Measurable Goal(s):

- Sponsor or co-sponsor and track the number of attendees at an Illicit Discharge Detection and Elimination workshop or other training workshop related to IEPA's NPDES Stormwater Program.
- Distribute informational materials about the hazards of illicit discharges and illegal dumping from "take away" rack at SMC and SMC website.

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

Lake County has adopted a countywide Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County, including requirements for construction site runoff control.

### **D.1 Regulatory Control Program**

The WDO is the regulatory mechanism that requires the use of soil erosion and sediment controls on development sites throughout Lake County. SMC has also created a

Designated Erosion Control Inspector (DECI) program, a program designed to closely mirror the inspection requirements of IEPA's General NPDES Permit No. ILR10.

Measurable Goal(s):

- Continue to administer and enforce the WDO.
- Continue to administer the Designated Erosion Control Inspector (DECI) program outlined by the WDO.

**D.2 Erosion and Sediment Control BMPs**

§600 of the WDO specifies the soil erosion and sediment control measures that must be used in conjunction with any land disturbing activities conducted on a development site. SMC maintains technical guidance resources and documents to accompany the WDO.

Measurable Goal(s):

- Continue to administer and enforce the WDO.
- Continue to maintain technical guidance documents.

**D.3 Other Waste Control Program**

The WDO includes several provisions that address illicit discharges generated by construction sites. The applicant is required to prohibit the dumping, depositing, dropping, throwing, discarding or leaving of litter and construction material and all other illicit discharges from entering the stormwater management system.

Measurable Goal(s):

- Continue to administer and enforce the provisions of the WDO related to the control of waste and debris during construction on development sites.

**D.4 Site Plan Review Procedures**

A community's designated enforcement officer is responsible for reviewing and permitting development plans and for administering and enforcing the provision of the WDO. Within certified communities the responsibility lies with the MS4; within non-certified communities the designated enforcement officer is SMC's chief engineer. SMC administers this enforcement officer program, providing training on an as-needed basis to all enforcement officers to assist them in passing the exam, and maintains an up-to-date list identifying each community's designated enforcement officer. In addition to administering the enforcement officer program, SMC periodically reviews each community's WDO administration and enforcement records, using the results of such review to evaluate the performance of certified communities and designated enforcement officers.

Measurable Goal(s):

- Administer the Enforcement Officer (EO) program outlined by the WDO.
- Maintain an up-to-date list identifying each community's designated enforcement officer.
- Periodically review each community's WDO administration and enforcement records. Re-Certification Procedure.
- Continue to maintain technical guidance documents.

### **D.5 Public Information Handling Procedures**

SMC provides a number of opportunities for the receipt and consideration of information submitted by the public.

#### Measurable Goal(s):

- Document and track the number of soil erosion and sediment control-related complaints received and processed by SMC.

### **D.6 Site Inspection/Enforcement Procedures**

Article 11 of the WDO contains both recommended and minimum requirements for the inspection of development sites. Within certified communities, the community's designated enforcement officer is responsible for conducting these inspections; within certified communities, SMC's chief engineer is responsible for conducting these inspections. Article 12 of the WDO specifies the legal actions that may be taken and the penalties that may be imposed if the provisions of the WDO are violated

#### Measurable Goal(s):

- Document and track the number of site inspections conducted by SMC.

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

As described above, Lake County has adopted a countywide Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County, including requirements for post-construction runoff control.

### **E.2 Regulatory Control Program**

Proposed stormwater management strategies must address the runoff volume reduction requirements described in §503 of the WDO and must include appropriate stormwater BMPs to address the other applicable post-construction runoff control requirements of the WDO.

#### Measurable Goal(s):

- Continue to administer and enforce the WDO.

### **E.3 Long Term O&M Procedures**

§401 of the WDO requires that maintenance plans be developed for all stormwater management systems and, §500 further details deed or plat restriction requirements for all stormwater management systems.

#### Measurable Goal(s):

- Continue to administer and enforce the WDO.

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

As described above, a community's designated enforcement officer is responsible for reviewing and permitting development plans and for administering and enforcing the

provisions of the WDO. This includes a review of the stormwater BMPs that will be used to meet the post-construction runoff control requirements of the WDO and adherence to the Runoff Volume Reduction standards of §503.

Measurable Goal(s):

- Continue to administer and enforce the WDO.

**E.5 Site Inspections During Construction**

As described above in MCM D.6 Article 11 of the WDO contains both recommended and minimum requirements for the inspection of development sites.

Measurable Goal(s):

- Continue to administer and enforce the WDO.

**E.6 Post-Construction Inspections**

SMC has collaborated on a number of watershed-based plans throughout the County. These watershed plans included a stream and detention basin inventories. The plans also include a list of site specific best management practices within various communities based on an assessment of these inventories and other data. SMC is currently developing an application to assist communities in identifying potential project sites, recommended in adopted watershed plans, within their jurisdictional boundaries.

Measurable Goal(s):

- Continue to administer and enforce the WDO.
- Develop an application, for use by MS4s, to identify adopted watershed plan recommendations within their communities.

**E.7 Other Post-Construction Runoff Controls**

Through the Watershed Management Board (WMB), SMC provides partial funding for flood damage reduction and surface water quality improvement projects. The WMB, which includes representatives from the Lake Michigan, North Branch of the Chicago River, Fox River, and Des Plaines River watersheds, meets annually to review potential projects and to make recommendations on stormwater BMP project funding. Members of the WMB include chief municipal elected officials, township supervisors, drainage district chairmen, and county board members from each district found within each of Lake County's four major watersheds. The goal of the WMB program is to maximize opportunities for local units of government and other groups to have input and influence on the solutions used to address local stormwater management problems. Previous WMB-funded projects have reduced flooding, improved surface water quality, and enhanced existing stormwater management facilities throughout Lake County.

Measurable Goal(s):

- Conduct annual WMB meeting.
- Contribute funding to flood damage reduction and water quality improvement projects through the WMB.

**F. Pollution Prevention/Good Housekeeping**

SMC will continue to support Lake County MS4s in the development and implementation of their stormwater management programs by performing activities related to the Pollution Prevention/Good Housekeeping minimum control measure, as described below. Note, however, that the primary responsibility for the implementation of the Pollution Prevention/Good Housekeeping minimum control measure lies with the MS4.

**F.1 Employee Training Program**

SMC will assist Lake County MS4s with the development and implementation of their employee training programs by maintaining a list of known employee training resources and opportunities, making available a software-based employee training program, and providing technical assistance to local MS4s. In addition, each year, SMC will sponsor or co-sponsor training workshops.

Measurable Goal(s):

- Maintain a list of known employee training resources and opportunities.
- Make available the Excal Visual Storm Watch: Municipal Storm Water Pollution Prevention software-based employee training program.
- Sponsor or co-sponsor a training workshop related to pollution prevention/good housekeeping or other training workshop related to IEPA's NPDES Stormwater Program.

**F.5 Flood Management/Assess Guidelines**

In working toward meeting its primary goals of flood damage reduction and surface water quality improvement, SMC follows a set of stormwater management policies that were created to define its roles and responsibilities for stormwater management in Lake County. One of these policies is to integrate multi-objective opportunities (e.g., flood damage reduction, surface water quality improvement, environmental enhancement) into SMC-sponsored projects. In accordance with this policy, SMC will evaluate all SMC-sponsored projects for multi-objective opportunities.

Measurable Goal(s):

- Track number of SMC-sponsored projects that are reviewed for multi-objective opportunity.

**F.6 Other Municipal Operations Controls**

SMC develops and distributes chloride reduction documents and materials. Each year, SMC will sponsor or co-sponsor at least one workshop on a topic related to winter de-icing. Lake County also publishes a "Lake County Winter Maintenance Preferred Providers" list. Providers included on this list have successfully completed a Lake County Deicing Training Workshop and passes the associated course exam.

Measurable Goal(s):

- Advise MS4 communities of watershed groups addressing issues associated with the use of chlorides (i.e. road salt).

- Sponsor or co-sponsor at least one workshop on a topic related to winter de-icing.
- Make available chloride reduction documents on take-away racks and the website.



