



Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

for NPDES Individual Permit for Storm Water Discharges Associated with Industrial Site Activities

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. Place a NA in sections that do not apply to your operation.

Report Period: From: March 2015 To: February 2016
(Month) (Year) (Month) (Year)

NPDES Permit No. IL00 0252

OWNER/OPERATOR INFORMATION: (As it appears on the current permit)

Name: Village of Vernon Hills
Mailing Address: 290 Evergreen Drive
City: Vernon Hills State: IL Zip: 60061 Telephone: 847-367-3700
Contact Person: John Kalmar, Village Manager (Person responsible for Annual Report)

FACILITY/SITE INFORMATION: (As it appears on the current permit)

Facility Name: Village Of Vernon Hills
Facility Location: 490 Greenleaf Drive
City: Vernon Hills IL Zip: 60061 County: Lake

Attach information concerning quarterly visual observations of discharges as found in Item H of your Permit. Include a summary of all periodic inspections required by the NPDES Permit.

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.

5/18/16
Date:

John M. Kalmar
Printed Name:

Village Manager
Title:

EMAIL COMPLETED FORM TO: EPA.NPDES.Inspection@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

**Illinois Environmental Protection Agency
Annual Facility Inspection Report
for General Permit for Discharges from Small MS4s**

**Village of Vernon Hills
Permit Year 13: March 2015 to February 2016**

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Part A. MS4 Changes to Best Management Practices, Year 13

Information regarding the status of all of the BMPs and measurable goals described in the MS4's SMPP is provided in the following table.

Note: X indicates BMPs that were implemented in accordance with the MS4's SMPP
 ✓ indicates BMPs that were changed during Year 13

Year 13	
MS4	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
	A.6 Other Public Education
B. Public Participation/Involvement	
	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
	C.1 Storm Sewer Map Preparation
	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	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
	C.10 Other Illicit Discharge Controls

Year 13	
MS4	
D. Construction Site Runoff Control	
	D.1 Regulatory Control Program
	D.2 Erosion and Sediment Control BMPs
	D.3 Other Waste Control Program
	D.4 Site Plan Review Procedures
	D.5 Public Information Handling Procedures
	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
	E.2 Regulatory Control Program
	E.3 Long Term O&M Procedures
	E.4 Pre-Const Review of BMP Designs
	E.5 Site Inspections During Construction
	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

NPDES REPORT
April 1, 2015 – March 31, 2016

PART B – Status of Compliance with Permit Conditions

A. Public Education and Outreach

BMP A1. Distributed Paper Material

Brief Description of BMP: MS4 will distribute publications received from SMC to local target groups.

Measurable Goal(s), including frequencies: Make available and distribute two manuals “A Citizen's Guide to Maintaining Stormwater Best Management Practices” and “Living With Wetlands: A Handbook for Homeowners in Northeastern Illinois” to local entities such as homeowners associations and stakeholder groups.

Year 1: Identify local target groups and distribute manuals to groups as appropriate.

Year 2: Distribute additional resources as appropriate. Made available and distributed the manual “A Citizen’s Guide to Maintaining Stormwater Best Management Practices” and the handbook “Living With Wetlands to the Environmental Committee.

Year 3: Worked with Haig Pointe Citizens to remove non-indigenous materials from wetlands. Distributed to residents adjacent to natural areas Prescribed Burn newsletter that described the benefits. Continue to provide SMC materials at the Public Works Building.

Year 4: Distributed SMC materials at the Public Works Building and Village Hall.

Year 5: Materials distributed over 500 people at Public Works Open House. Materials available at Public Works front desk.

2008/09: Letters prohibiting phosphorus fertilizer were sent to suppliers, vendors, and contractors. Homeowners in Beaver Creek Subdivision were provided drainage map and LCHD brochure on effect of phosphorus and algae growth.

2009/10: Continue to distribute paper materials at the Village Hall and Public Works Buildings to Public. Letters were sent in March 2009 to local suppliers of fertilizer for reminder of phosphorus prohibition in Vernon Hills.

2010/11: Continue to distribute paper materials at the Village Hall and Public Works Buildings to Public.

2011/12: Continue to distribute paper materials at the Village Hall and Public Works Buildings to Public.

2012/13: Continue to distribute paper materials at the Village Hall and Public Works Buildings to Public.

2013/14: Continue to distribute paper materials at the Village Hall and Public Works Buildings to Public.

2014/15: Continue to distribute paper materials at the Village Hall and Public Works Buildings to Public.

2015/16: Continue to distribute paper materials at the Village Hall and Public Works Buildings to Public.

BMP A2. Speaking Engagement

Year 3: Village Engineer met with two citizen groups to discuss Lake Harvey and Seavey Drainage Ditch projects. See attached letters.

Year 4: Continue to meet with Citizen Groups on local projects and events. Work with Gregg's Landing HOA to improve Lake Charles Water Quality.

Year 5: Speak at Middle School Career Day about Water Resources, Wetlands, and Lakes Operation and maintenance.

2008/09: Upper Des Plaines River Ecosystem and Barrington Area Council of Governments presentation of phosphorus ordinance implementation. Village Board presentation on ordinance. Cable interview with LCHD staff on phosphorus/algae impacts.

2009/10: The Village Engineer, as the APWA Lake Branch Education Chair, assisted in the APWA/SMC co-sponsored BMP-De-Icing seminar on September 29, 2009.

2010/11: The Village Engineer spoke at the UPDREP Watershed Tour.

2011/12: The Village Engineer spoke to the Hawthorn Elementary School Science Club once about wetlands and floodplains.

2012/13: No speaking engagements performed.

2013/14: No speaking engagements performed.

2014/15: No speaking engagements performed.

2015/16: No speaking engagements performed.

BMP A4. Community Event

Brief Description of BMP: The Community Development Department met internally on soil erosion and sediment control procedures. Measurable Goal(s), including frequencies: Participate in the bi-annual soil erosion and sediment control workshop.

Milestones:

Year 1: Participate in workshop.

Year 2: No workshop planned.

Year 3: Participate in workshop.

Year 4: No workshop planned.

Year 5: Participate in workshop.

Measurable Goal(s), including frequencies: Host an annual SWALCO Household Hazardous Chemical Waste Pickup.

Year 2: The Village held a household chemical waste collection event on May 3, 2004 with 805 households participating. There were 188 waste containers and 900 gallons of waste oil / antifreeze collected.

Year 3: Host a SWALCO Household Hazardous Chemical Waste Pickup on June 11, 2005. Over 900 participants dropped off household wastes. Distribute SMC materials at Biannual Public Works Open House held in May, 2005.

Year 4: Hosted two SWALCO Household Hazardous Chemical Waste Pickups in May, and November 2006. Hosted Electronics Recycling event in September 2006. Work with willing citizens on environmental issues.

Year 5: Host SWALCO Household Hazardous Chemical Waste Pickup and Electronics Recycling events. Participated in SWALCO Reuse-a-Shoe program this year. Distributed SMC materials at Biannual Public Works Open House in May, 2007.

2008/09: Host SWALCO Household Hazardous Chemical Waste Pickup (1500 total) and Electronics Recycling (600 total) events in spring and fall.

2009/10: Village hosted two electronics collection with over 500 participants and one Hazardous Chemical Waste Pickup (742 Households). Village contributed funds to new satellite Hazardous Chemical Waste Pickup at Lincolnshire Riverwoods Fire Protection District Station.

2010/11: The Village hosted an Household Chemical Waste event on May 15, 2010 removing 172.1 55-gallon drum equivalents from the waste stream, and also hosted two electronic collections (4/29/10 and 9/29/10) removing 32,662 pounds of electronics from the landfills.

2011/12: The Village hosted an Electronics waste event on April 30th, a Household waste event on May 7th, and a Recycle o Rama on July 23rd.

2012/13: We assisted Vernon Township who hosted an Electronics waste event on April 20th, a Household waste event on May 18th, and started a daily electronic collection in 2013.

2013/14: We assisted Vernon Township who hosted an Recycle O Rama waste event on April 26th, a Household waste event on May 17th, and started a daily electronic collection in 2013.

2014/15: We assisted Vernon Township who hosted an Recycle O Rama waste event on April 26th, a Park District Recycle O Rama on June 14th, and ended a daily electronic collection in 2014.

2015/16: May 16th, we assisted with a Household Chemical Waste event. April 29-30, we hosted a Reuse a Shoe Event.

BMP No. A.6 Other Public Education:

Year 3: Investigate purchase and use of Catch Basin Markers – target residential area with detention basins, seek volunteers, and develop educational materials.

Year 4: SMC has developed “How to Guide” for Catch Basin Markers and Public Works Department is investigating program. Since 2000 in all new developments, catch basins are cast with the “fish” identifier on back of the grate.

Year 5: Review SMC How to Guide and seek Catch Basin Marker Volunteers.

2009/10: New Catch Basin Frames have “Drains to Rivers” cast on them. All new development will incorporate their use. This is in lieu of using aerosol paints and stencils materials on existing catch basins.

2010/11: A video was produced of our Seavey Ditch at Hazletime Road Streambank Restoration Project and placed on YouTube. The Village Engineer attended two Hawthorn Elemenary School Science Club meetings educating them on wetlands, farm tiles, and invasive species.

2011/12: The Village won a native landscaping award from the Chicago Wilderness, we installed the Award Winning Sign at Hazletime Streambank Project, and hosted and spoke to a watershed tour group at the Hazletime Streambank Project.

B. Public Participation/Involvement

BMP No. B1. Public Panel

2008/09: Hosted UDREP Brown Bag Briefing – open to County Board members, municipalities, and other stakeholders. Promote Homeowner Association Maintenance for Subdivision Drainage Systems Seminar on July 14, 2008.

BMP No. B3. Stakeholder Meeting

Brief Description of BMP: Stakeholder meetings are conducted throughout the county for ongoing planning and project implementation efforts. When stakeholder groups (such as watershed planning committees) include the jurisdictional area of the village, the village will publicize stakeholder meetings locally and participate by being represented at the stakeholder meetings.

Measurable Goal(s), including frequencies: Publicize and participate in relevant watershed planning committees and other stakeholder groups. Village Engineer continues to attend meetings and participated in the Indian Creek Watershed Plan that was approved in 2004-05 and Des Plaines River planning.

Year 1-5: The Village of Vernon Hills will participate in Indian Creek Watershed Planning meetings.

2008/09: November 6, 2008 – Village received the Indian Creek Watershed Leadership Award at annual meeting.

2009/10: Continue involvement in Indian Creek Watershed Planning Group. Public Works staff worked with citizens group (Haig Pointe) in removal of invasive vegetation from wetlands.

2010/11: Volunteers from Lifeline Vascular Access helped plant 74 trees and 90 shrubs for our Seavey Ditch at Hazeltine Road Streambank Restoration Project.

2011/12: Arbor Day cleanup at Harvey Lake where the general public was invited.

2012/13: Arbor Day event was held at the Arbortheatre where the Boy Scouts helped plant Oak Trees.

2013/14: Arbor Day event was held at Harvey Lake where the public was invited to help plant small trees.

2014/15: Arbor Day event was held at Hazeltine Park where the Boy Scouts was invited to help plant small trees.

2015/16: Arbor Day event was held at the Arbortheatre where the Boy Scouts was invited to help plant small trees and pick up debris.

BMP B4. Public Hearing

Brief Description of BMP: The village will conduct a public meeting or public hearing on its proposed stormwater management plan. Each village will meet its own requirements for conducting public meetings or hearings.

Measurable Goal(s), including frequencies:

Year 1: Hold at least one public meeting to present NPDES Phase II program and locally proposed stormwater management plan.

Year 2, 3: A public hearing will be conducted when the Upper Des Plaines River draft is received from Lake County SMC. Draft report has not been released at end of Year 2. Due to the date of release, this BMP will be a year 3.

Year 3: Present ongoing program summary at annual public meeting in June 2005.

Year 4: Present Municipal NPDES Phase II Report and Year 4 Activities to Village Board in June 2006.

Year 5: Present Municipal NPDES Phase II Report and Year 5 Activities to Village Board in June 2007.

2009/10: Present yearlong activities to Village Board in May/June Board meeting. Village Board adopted by resolution new NOI on June 16, 2009.

2010/11: Presented to the Village Board year long activities at a June 2010 Board meeting.

BMP B7. Other Public Involvement

Measurable Goal(s), including frequencies: Hold at least two Environmental Committee meetings per year.

Year 1: Conduct two meetings with Environmental Committee.

Year 2: The Village's Citizen's Environmental Committee has not held meetings related to stormwater management in Year 2.

Year 3: The Village's Citizen's Environmental Committee is under reorganization with the Forestry Advisory Committee.

Year 4-5: Committee was eliminated by Village Board.

Measurable Goal(s), including frequencies: Staff Attendance at SMC Meetings for NPDES Permitting.

Year 2: Attended NPDES Phase II Good Housekeeping Workshop on April 6, 2004. Staff attended three MAC meetings at SMC.

Year 3: Attended NPDES Phase II Managing Snow & Ice Control Operations to Protect Water Quality Seminar, Linking Watersheds Conference 2005, and APWA Streambank Stabilization Webcast Workshop.

Year 4: Attended two NPDES Workshops including sensible salting application seminar, and SMC Monthly MAC meetings.

Year 5: Attended NPDES Workshop May 10, 2007 and SMC MAC meetings throughout the year.

2008/09: Continue to attend NPDES Workshops and SMC MAC meetings throughout the year.

Staff attended Recycling, Reusing, and Managing Stormwater Workshop on September 17, 2008 by LCSMC.

2009/10: Continue to attend NPDES Workshops and SMC meetings throughout the year. Public Works staff attended De-icing Workshop in November, 2009, NPDES Compliance workshop in October, 2009, and Discharges for MS4's in June 2009.

2010/11: Placed NPDES Year-end Report and NOI on Public Works Website.

2011/12: Placed NPDES Year-end Report and NOI on Public Works Website.

2012/13: Placed NPDES Year-end Report and NOI on Public Works Website.

2013/14: Placed NPDES Year-end Report and NOI on Public Works Website.

2014/15: Placed NPDES Year-end Report and NOI on Public Works Website.

2015/16: Placed NPDES Year-end Report and NOI on Public Works Website.

C. Illicit Discharge Detection and Elimination

BMP No. C.1 Storm Sewer Map Preparation

Brief Description of BMP: Village Engineer and GIS Specialist will prepare an outfall map to allow for tracking of dry weather flow inspections and outfall maintenance.

Measurable Goal(s), including frequencies: The Village will map all storm sewer outfalls discharging to the Seavey Drainage Ditch and Des Plaines River. Each outfall will be field verified and given a unique identifier to be used to document inspections. The map will be regularly updated as improvements or new developments occur.

Year 1: Planning and collection of data.

Year 2: Start outfall map and GIS data. Public Works staff dedicated 126 hours to field locating the storm sewer network.

Year 3: Complete storm sewer and outfall data. The storm sewer map preparation and information may be obtained from the Village's GIS Specialist. Village Engineer has represented Village in the Illicit Discharge Detection and Elimination AD-HOC Committee.

Year 4: The 2006/07 Village budget has funding for consultant GIS mapping of the outfalls. The Stormwater Management Agency has now provided the protocol for mapping.

Year 5: Outfall Mapping – collected 250+ points on Des Plaines River, Seavey Drainage Ditch, and Indian Creek. Purchased Trimble unit to improve accuracy of existing stormwater facilities. 2008/09: Continue identification of outfall and storm sewer structures within the Village. Verify location of outfall connections to storm sewer system.

2009/10: Mapping of 3200 storm structures by GIS Coordinator. Included are outfall and detention restrictor structures.

2010/11: Mapping of over 95% of Village owned storm structures was completed. Privately owned storm structures were included into the Village GIS database via construction as-builts.

2011/12: Additional storm sewer mapping was performed.

2012/13: Additional storm sewer mapping was performed. Purchase a Colorado Tube for sampling.

2013/14: Additional storm sewer mapping was performed.

2014/15: Additional storm sewer mapping was performed.

2015/16: Additional storm sewer mapping was performed.

BMP No. C.2 Regulatory Control Program

Brief Description of BMP: Review, existing ordinance language to prohibit non-storm water discharges to the storm sewer or drainage system.

Measurable Goal(s), including frequencies: Adopt ordinance amendment by end of Year 4.

Year 2: Receive and review model ordinance language from SMC.

Year 3: Investigate current village ordinances and coordinate model ordinance amendments.

Year 4: The Village will use the draft model ordinance being developed by the SMC for MS4's.

Year 5: Illicit Discharge Ordinance drafted and was sent to the Village Board for approval In May 2008.

2008/09: Adopted Illicit Discharge Ordinance in April 2008.

2009/10: No enforcement action needed.

2010/11: Participated in review and modification of Countywide Watershed Development Ordinance Amendments.

2011/12: No enforcement action needed.

2012/13: No enforcement action needed.
2013/14: No enforcement action needed.
2014/15: No enforcement action needed.
2015/16: No enforcement action needed.

BMP No. C.3 Detection/Elimination Prioritization Program

2010/11: Begin development of SMPP, Investigate, and budget and develop dry-weather screening program.
2011/12: Staff attended IDDE Seminar to help develop program.
2012/13: Staff began sampling and testing for pH, Total Alkalinity, Total Hardness, Nitrate, Nitrite, Iron, Copper, Free Chlorine, Total Chlorine.
2013/14: Staff sampled and tested for pH, Total Alkalinity, Total Hardness, Nitrate, Nitrite, Iron, Copper, Free Chlorine, Total Chlorine at two location along the Seavey Ditch in Vernon Hills.
2014/15: Staff sampled and tested for pH, Total Alkalinity, Total Hardness, Nitrate, Nitrite, Iron, Copper, Free Chlorine, Total Chlorine at two location along the Seavey Ditch in Vernon Hills.
2015/16: The Village of Vernon Hills joined the Upper Des Plaines River Watershed consortium for sampling and testing water samples.

BMP No. C.4 Illicit Discharge Training Procedures

2010/11: Request Excal Training Module from LCSMC for training program with Public Works staff.
2011/12: Two employees attended a IDDE training seminar presented by the APWA and SMC.
2012/13: Staff viewed the Excal Training Module from LCSMC.
2015/16: Staff viewed the Excal Training Module from LCSMC.

BMP No. C.5 Illicit Source Removal Procedures

Years 1-5: The Public Works Department accepts and recycles used motor oil, antifreeze, and waste gasoline from Village residents. The liquids are collected and disposed of by Safety Clean Company.
2008/09: Continue to accept used motor oil, gasoline, and anti-freeze from residents.
2009/10: Continue to accept used motor oil (500+ gals.), gasoline, and anti-freeze from residents.
2010/11: Obtain draft SMPP from SMC. Public Works and Engineering Department have combined into one Department so there will be a single focus on creating this active document.
2011/12: Continued to develop SMPP.
2012/13: Continued to develop SMPP.
2013/14: Continued to develop SMPP.
2014/15: Continued to develop SMPP.
2015/16: Continued to develop SMPP.

BMP No. C.8 Pollutant Field Testing

Measurable Goal(s), including frequencies: Continue inspection of storm sewer system and enforcement with proposed and existing ordinances.
Year 2: Enforcement action taken by Village for illicit discharge in September 2004. See attached report.
Year 3: Enforcement action taken to eliminate cross connections in the Pinehurst Subdivision. See attached emails for documentation.
Year 4: Continue inspection of storm sewers and complaints from public.

Year 5: Enforcement action taken by Village for illicit discharge in June 2007 – discharge from a delivery truck into a parking lot directly discharging into the Seavey Drainage Ditch. Public Works staff worked with Fire District staff and setup containment in Ditch until hazardous clean-up arrived on site. See attached email.

2008/09: Continue to be vigilant for illicit discharges to the Seavey Drainage Ditch and Indian Creek.

2009/10: During Seavey Ditch cleaning projects, project sites were monitored for illicit discharges.

2010/11: During Seavey Ditch cleaning, no illicit discharges were observed.

2011/12: During Seavey Ditch cleaning, no illicit discharges were observed.

2012/13: During Seavey Ditch cleaning, no illicit discharges were observed.

2013/14: During Seavey Ditch cleaning, no illicit discharges were observed.

2014/15: During Seavey Ditch cleaning, no illicit discharges were observed.

2015/16: During Seavey Ditch cleaning, no illicit discharges were observed.

D. Construction Site Runoff Control

The Village adopted on April 4, 2006 the revised Watershed Development Ordinance that establishes the minimum stormwater management requirements for development in the Village. The WDO is enforced by the Village and has established standards for construction site runoff control. The Village Engineer is the appointed WDO enforcement officer and has participated in the development of the Soil Erosion/Sediment test.

BMP D1. Regulatory Control Program

The WDO has been adopted as the regulatory mechanism to require erosion and sediment controls for construction activities in the village. The soil erosion and sedimentation control performance standards are included in Article IV, Section B.1.j. of the WDO. At a minimum, these standards apply to any development that hydrologically disturbs 5,000 square feet or more.

2008/09: Development sites were stabilized where construction has stopped due to economic conditions.

2009/2010: Continued enforcement of the countywide WDO. Performed a self assessment of the Regulatory Control program which was forwarded to the SMC for recertification approval.

2010/11: Participated in review and modification of County wide Watershed Development Ordinance Amendments.

2011/12: Continued enforcement of the countywide WDO.

2012/13: Continued enforcement of the countywide WDO.

2013/14: Continued enforcement of the countywide WDO.

2014/15: Continued enforcement of the countywide WDO.

2015/16: Continued enforcement of the countywide WDO.

BMP D2. Erosion and Sediment Control BMPs

Article IV, Section B.1.j. of the WDO specifies the required soil erosion and sediment control measures for any land disturbance activity. This section of the WDO includes 15 requirements for soil erosion and sediment control measures including: minimize soil disturbance; protect adjoining properties from erosion and sedimentation; complete installation of soil erosion and sediment control features prior to commencement of hydrologic disturbance; stabilize disturbed areas within 14 days of active disturbance; avoid disturbance of streams and when possible, size

measures appropriate to the amount of tributary drainage area; protect functioning storm sewers from sediment; prevent sediment from being tracked onto adjoining streets; limit earthen embankments to slope of 3H:IV; identify soil stockpile areas; and utilize statewide standards and specifications as guidance for soil erosion and sediment control.

2008/09: Sediment and erosion control ordinance was updated to reflect newer Best Management Practices.

2010/11: Two Village employees received recertification as Designated Erosion Control Inspectors by the Lake County Stormwater Management Commission.

2011/12: Attended a workshop with hands on training of BMP's hosted by the SMC.

2013/14: Two Village employees received recertification as Designated Erosion Control Inspectors by the Lake County Stormwater Management Commission.

2014/15: Two Village employees received recertification as Designated Erosion Control Inspectors by the Lake County Stormwater Management Commission.

2015/16: Two Village employees received recertification as Designated Erosion Control Inspectors by the Lake County Stormwater Management Commission.

BMP D3. Other Waste Control Program

The Village initiates the process of developing WDO amendments to include the control of waste and debris at construction sites.

BMP D4. Site Plan Review Procedures

The Village Enforcement Officer reviews all Watershed Development Applications and issues permits for those projects that are in compliance with the provision of the WDO.

BMP D5. Public Information Handling Procedures

The Village provides a number of opportunities for receipt and consideration of information submitted by the public. The Village documents and tracks the resolution of reported problems and citizen complaints. The Village investigates the report and prescribes corrective action to the property owner to find a solution.

E. Post-Construction Runoff Control

The WDO standards established by the Lake County Watershed Development Ordinance for minimum stormwater management requirements for development in the village have been established. These standards apply to any new development or redevelopment those results in over 0.5 acres of new impervious areas.

BMP E2. Regulatory Control Program

The Village has adopted a stormwater management strategy for controlling post-construction runoff. The applicant must develop a stormwater management strategy that minimizes the increase in runoff volumes and rates and addresses the water quality treatment requirements of the WDO. The proposed drainage plan must use the runoff reduction hierarchy in the WDO and implement BMPs as presented in the TRM. The WDO also requires the use of buffers when adjacent to existing waterbodies.

BMP E3. Long Term O&M Procedures

The Village requires that a maintenance plan be prepared for all stormwater management system components for Major developments (as defined by the WDO). The Enforcement Officer may require maintenance plans to be prepared for all development sites that require a NPDES permit. The maintenance plan must include: maintenance tasks; the party responsible for performing the maintenance tasks; a description of all permanent public or private access maintenance easements and overland flow paths, and compensatory storage areas; and a description of dedicated sources of funding for the required maintenance.

BMP E4. Pre-Construction Review of BMP Designs

The Village's Enforcement Officer reviews all Watershed Development Applications and issues permits for those projects that are in compliance with the provisions of the WDO. This includes a review of the proposed BMPs for post-construction runoff control.

2008/09: In house training was provided to our Engineering Technicians and Building Inspectors.

2011/12: Implemented use of newer BMP's on projects, flock logs and treatment trains are examples.

2012/13: Village adopted the new WDO standards in June 2012.

BMP E5. Site Inspections During Construction

Article IV of the WDO provides both the recommended and the minimum requirements for site inspection. The Village's Enforcement Officer conducts these inspections. The Village's Enforcement Officer also inspects site development at any stage in the construction process. For major developments, the Village's Enforcement Officer has conducted site inspections, at a minimum, upon complete of installation of sediment and runoff control measures and after final stabilization and landscaping, prior to removal of sediment controls.

Year 4: Engineering Inspectors have completed training and passed Designated Erosion Control Inspector exam.

Year 5: Engineering Inspectors are Designated Erosion Control Inspectors through the Lake County Stormwater Agency.

2008/09: Engineering Technicians are certified as: Designated Erosion Control Inspectors.

2009/10: Continued enforcement of the countywide WDO.

2010/11: Continued enforcement of the countywide WDO, two Village employees were recertified as Designated Erosion Control Inspectors by the Lake County Stormwater Management Commission.

2011/12: Continued enforcement of the countywide WDO.

2012/13: Continued enforcement of the countywide WDO.

2013/14: Continued enforcement of the countywide WDO.

2014/15: Continued enforcement of the countywide WDO.

2015/16: Continued enforcement of the countywide WDO.

BMP E6. Post-Construction Inspections

See comments in E5.

BMP E7. Other Post-Construction Runoff Controls

The Village Manager along with elected officials, township supervisors, drainage district chairs, and county board members from each district within the boundaries of the watershed meet yearly to make recommendations on project funding. The goal is to maximize opportunities for local units of government and other groups to have input and influence in local stormwater management problem solving. This has resulted in projects having improved quality of water in streams and swales and has enhanced stormwater facilities.

2010/11: Created inventory of hydrocarbon removal systems in our GIS system.

2011/12: Will conduct code enforcement inspections of hydrocarbon removal systems to assure that they are properly maintained.

2012/13: The Village implemented a program to assure annual cleaning of all hydro carbon systems within the Village limits.

2013/14: The Village oversaw a program to assure annual cleaning of all hydro carbon systems within the Village limits.

2014/15: The Village oversaw a program to assure annual cleaning of all hydro carbon systems within the Village limits.

2015/16: The Village oversaw a program to assure annual cleaning of all hydro carbon systems within the Village limits.

F. Pollution Prevention/Good Housekeeping

BMP No. F1 Employee Training Program

Brief Description of BMP: The Village will develop a training program for municipal employees. This may be based on existing training programs that the Village currently conducts. Any new training materials will be developed based on guidance that is widely available. SMC, the Qualifying Local Program, will serve as a clearinghouse of these materials. The training program may be updated and expanded as the Village implements its stormwater management program.

Measurable Goal(s), including frequencies: Develop municipal employee training program. Conduct annual training for employees that will implement or utilize BMPs.

Milestones:

Year 1: Inventory and categorize municipal activities that are classified as industrial.

Year 2: Continue training program for employees in relevant positions. NPDES training meeting was held amongst Public Works staff. The inventory and categorization of municipal activities is being performed.

Year 3: Staff attended the NPDES Phase II Managing Snow & Ice Control Operations to Protect Water Quality Seminar

Year 4-5: Train municipal employees in relevant positions and update program as needed.

Attended SMC/APWA seminar on Sensible Salting.

2009/10: Attend QLP programs for NPDES. Public Works Department installed and initiated use of liquid de-icing materials for snow and ice control. Anti-icing was performed throughout the winter, but it was difficult to determine the efficacy of the program.

2010/11: Trained new personnel on salt controls and liquid deicing.

2011/12: Entire Public Works staff was trained on good housekeeping practices through viewing of a Viscal training video.

2012/13: Entire Public Works staff was trained on good housekeeping practices through viewing of a Viscal training video.

2015/16: Entire Public Works staff was trained on good housekeeping practices through viewing of a Viscal training video.

BMP No. F2 Inspection and Maintenance Program

Brief Description of BMP: Reduce the amount of pollution (sand, salt, leaves, etc.) that accumulates on village streets, which has the potential to be carried by runoff into village streams.

Measurable Goal(s), including frequencies: The Village continues street sweeping in the months of April to November and catch basin cleaning in spring and fall.

Milestones:

Year 1: The Village will determine the lineal footage of storm sewers and number of drainage structures; analyze existing lane miles of streets and frequency of cleaning and sweeping. See Exhibit for work hours dedicated to maintenance programs.

Year 2: The Village will report frequency and create maintenance program goals. The Public Works Department swept 2100 curb miles and the municipal parking lots on a regular schedule. Catch Basins (107) in the Grosse Pointe Village and Stone Fence were cleaned this year. Sediment bags in Catch Basins at the Public Works Building were cleaned on five occasions. Television of 350 feet of storm sewers was completed in Grosse Pointe Village.

Year 3: Storm Sewer cleaning by contract was completed in the Stone Fence Farms, Deerpath, and Plymouth Farms subdivisions.

Year 4: Street Sweeping Contractor completed over 1000 miles of street cleaning. Village staff augmented with winter sweeping when snow was not present to pickup debris. The triple basin and sediment trap was cleaned on five occasions by Lake County Public Works Department.

Year 5: Continued program of cleaning catch basins and using wash bay for cleaning the Village's street sweeper. Contractor sweep all Village cul-de-sacs in March after winter use of sand/salt mixture for de-icing purposes. 2400 miles of street sweeping completed in Year 5.

2008/09: Continue aggressive program of street sweeping by staff and contract (1147 miles). Catch Basin Patrol of 111 hours to remove debris at prescribed locations in Village. Repair 24 Catch Basins during the year. Attach 3 sump pumps causing erosion to storm sewers.

2009/10: Continue aggressive program of street sweeping by staff (903 miles) and contract (614 miles). Catch Basin Patrol of 135 hours to remove debris at prescribed locations in Village. Repair 18 Catch Basins during the year. Attach 1 sump pump to storm sewer that was causing erosion.

2010/11: Continued street sweeping efforts by both the Village and Contractor. The Contractor totaled 160 hours of sweeping for over 700 miles, the Village covered approximately 1000 miles in sweeping. The Village repaired over 10 catch basins and performed catch basin patrol to remove debris from storm structures.

2011/12: Continued street sweeping efforts by both the Village and Contractor. The Contractor totaled 191.5 hours of sweeping for 958 miles, the Village covered approximately 2,544 miles. The Village repaired 21 catch basins, repaired and cleaned a RCCP that was separated and created a sinkhole on the Noble Circle roadway.

2012/13: Continued street sweeping efforts by both the Village and Contractor. The Contractor and the Village covered approximately 2,101 miles. The Village repaired 11 catch basins.

2013/14: Continued street sweeping efforts by both the Village and Contractor. The Contractor and the Village covered approximately 2,270 miles. The Village repaired 40 catch basins.
2014/15: Continued street sweeping efforts by both the Village and Contractor. The Contractor and the Village covered approximately 2,859 miles. The Village repaired 35 catch basins.
2015/16: Continued street sweeping efforts by both the Village and Contractor. The Contractor and the Village covered approximately 2,543 miles. The Village repaired 37 catch basins.

BMP No. F3 Municipal Operations Storm Water Control

Measurable Goal(s), including frequencies:

Milestones: Continue to monitor local outlets and critical structures. See attached location sheet.

Year 2: Outlets and Structures checked on 30 occasions before and after storms. Complete inspection of Class I dams as required by IDNRDWR.

Year 3: Outlet and Structure Inspection list created and used by staff. Outlets were checked on occasions. Complete inspection of Class I dams as required by IDNRDWR.

Year 4: Over 320 hours are attributed to cleaning catch basins and patrol of grates after a storm event. Reconstruct seven catch basins and connect three residential sump pumps to storm sewer system. Complete inspection of Class I dams as required by IDNRDWR.

Year 5: Staff completed 416 hours of catch Basin cleaning and patrol. Sediment bags at the Public Works Building and VHAC were cleaned five times throughout the year. 80 hours of contract time were used for storm sewer cleaning and televising by a contractor. Staff assisted with 52 hours of cleaning throughout the community. Complete inspection of Class I dams as required by IDNRDWR.

2008/09: 8900 feet of storm sewers were cleaned including root cutting in advance or future construction projects and 240 hours by contract throughout community. Storm sewers were televised 56 hours by staff and 80 hours by contract. Complete inspection of Class I dams as required by IDNRDWR.

2009/10: Contractor/Staff cleaned storm sewers for 72 hours. Storm Sewers were televised by staff a total of 128 hours.

2010/11: Contractor/Staff cleaned storm sewers for 80 hours. Other storm sewers were televised in the area of our 2010 MFT Road Re-surfacing Project.

2011/12: Contractor/Staff cleaned and jet-rodded storm sewers for 98 hours. Multiple sites including a CDS structure as well as the entirety of Hawthorn Club's laterals.

2012/13: Contractor/Staff cleaned and jet-rodded storm sewers for 76 hours. This included 13 private CDS structures.

2013/14: Contractor/Staff cleaned and jet-rodded storm sewers for 80 hours. This included 13 private CDS structures.

2014/15: Contractor/Staff cleaned and jet-rodded storm sewers for 32 hours. This included 14 private CDS structures.

2015/16: Contractor/Staff cleaned and jet-rodded storm sewers for 40 hours. This included 14 private CDS structures.

BMP No. F4 Municipal Operations Waste Control

Measurable Goal(s), including frequencies:

Milestones: Roadway Salt is handled with proper procedures and waste materials disposed of properly.

Year 2, 3: The Public Works Department continues to accept and dispose of Waste Oil, Gasoline, and Antifreeze from Village residents as an alternative to dumping into storm or sanitary sewers.

The Village was also accepts crushed and drained used oil filters. The cost of the disposal is budgeted at \$1800 per year. Roadway salt is stored in a structure at the Public Works Building. Stormwater runoff from this area is travels first through a gravel storage area and then into a long vegetated swale and drainage way on Village property. Excess salt is swept in the winter when weather conditions permit the work. This year roadway salt used by the high school and the park district was stored in the Village's salt bins. This eliminates two potential locations of runoff from exposed salt piles. The Public Works Department removed 200 tons of salt from a local shopping center storage area where the cover had been frayed over the last year. This eliminated the potential for discharge of stormwater laden with salt into the Des Plaines River.

Year 4: Continue to store salt in contained structure. Public Works Department used snow fence in newly development area to reduce the amount of roadway salt used and draining to detention basins and Lake Charles. Salt was picked up from the shopping center for storage and future use. Year 5: Salt properly stored on site. Snow fence again used in open area of the Village to reduce salt burn to parkways and detention ponds. Triple basin in Public Works Garage was cleaned five times throughout the year – street sweeper and salt trucks now cleaned inside facility.

2008/09: The Public Works used 5000 gallons of GeoMelt on a trial experience to understand its effectiveness. Clean Public Works Building Triple Basins 4 times, sediment, and debris are attributed to cleaning street sweeper and snow plow equipment. Sediment bags at catch basins in Public Works Department lot were cleaned 4 times and at the VHAC baseball fields 3 times.

2009/10: Wash Bay sump at Public Works Building was cleaned on 4 occasions. The wash bay, inside the building, is used for cleaning all vehicles and reduces sediment in the storm sewer system. Sediment bags were cleaned on the facility on 2 occasions and at the Athletic Complex on 3 occasions.

2010/11: Wash Bay sump at Public Works Building was cleaned as necessary. The wash bay, inside the building, is used for cleaning all vehicles and reduces sediment in the storm sewer system. Sediment bags were cleaned on the facility on 2 occasions and at the Athletic Complex on 2 occasions. The Village cleaned its only CDS structure.

2011/12: Sediment bags at the Public Works building and VHAC were cleaned four times. The triple basin and sediment trap in the Public Works garage was cleaned a minimum of five times.

2012/13: Sediment bags at the Public Works building and VHAC were cleaned five times. The triple basin and sediment trap in the Public Works garage was cleaned a minimum of four times.

2013/14: Sediment bags at the Public Works building and VHAC were cleaned five times. The triple basin and sediment trap in the Public Works garage was cleaned a minimum of four times.

2014/15: Sediment bags at the Public Works building and VHAC were cleaned five times. The triple basin and sediment trap in the Public Works garage was cleaned a minimum of four times.

2015/16: Sediment bags at the Public Works building and VHAC were cleaned five times. The triple basin and sediment trap in the Public Works garage was cleaned a minimum of four times.

BMP No. F5 Flood Management

Measurable Goal(s), including frequencies: Monitor Seavey Drainage Ditch for Blockages

Year 2: Removed a blockage of downed trees and debris between Hazeltine Street and Gregg's Parkway, using a contractor with a grapple. Large amounts of debris were removed from Seavey Ditch at the Route 45 Box Culvert. In the winter sediment that was deposited downstream of the Hazeltine Box Culvert was removed with an excavator and trucked offsite.

Year 3: Works was completed on the Seavey Ditch including tree and buckthorn removal in the Stone Fence/Deerpath areas.

Year 4: Public Works staff had 75 hours of general cleaning of the Seavey Ditch to remove local blockages. Contract Cleaning of Seavey Ditch was budgeted in 2006/07 and scheduled for June 2007.

Year 5: Based on budgets, continue with management of Seavey Drainage Ditch. Contract cleaning of Seavey Drainage Ditch was completed upstream of Gregg's Parkway. Work to continue in 2008 further upstream. Staff completed 64 hours of targeted location cleaning at culvert structures.

2008/09: Contract cleaning of Seavey Drainage Ditch was completed between Hazeltine Drive Culvert and Gregg's Parkway. Staff spent 72 hours cleaning blockages of the ditch.

2009/10: Contract cleaning of Seavey Drainage Ditch was completed between Route 60 and Arbortheater/Kids Castle. Staff spent 35 hours cleaning blockages of the Seavey Ditch, Evergreen Lake, and Atrium Ditch.

2010/11: The Village cleaned blockages in the Seavey Ditch at Deerpath and Route 45 and just downstream of the Village Golf Course.

2011/12: A minimum of 161 hours was spent cleaning/removal of flotsam, jetsam and flora at various locales in/along the Seavey Ditch(i.e. Hazeltine, Atrium Ditch, Deerpath) to prevent blockages and or improve access to areas where blockages commonly occur. Staff installed wire mesh fencing surrounding three intake laterals in the Atrium Ditch to prevent future blockages within the storm system. Staff rebuilt the majority of one weir dam to help regulate the flow of water as originally intended.

2012/13: A minimum of 100 hours was spent cleaning/removal of flotsam, jetsam and flora at various locales in/along the Seavey Ditch(i.e. Hazeltine, Atrium Ditch, Deerpath) to prevent blockages and or improve access to areas where blockages commonly occur.

2013/14: A minimum of 120 hours was spent cleaning/removal of flotsam, jetsam and flora at various locales in/along the Seavey Ditch(i.e. Hazeltine, Atrium Ditch, Deerpath) to prevent blockages and or improve access to areas where blockages commonly occur.

2014/15: A minimum of 50 hours was spent cleaning/removal of flotsam, jetsam and flora at various locales in/along the Seavey Ditch(i.e. Hazeltine, Atrium Ditch, Deerpath) to prevent blockages and or improve access to areas where blockages commonly occur.

2015/16: A minimum of 64 hours was spent cleaning/removal of flotsam, jetsam and flora at various locales in/along the Seavey Ditch(i.e. Hazeltine, Atrium Ditch, Deerpath) to prevent blockages and or improve access to areas where blockages commonly occur.

PART F. CONSTRUCTION PROJECTS CONDUCTED DURING YEAR 5

Fall 2009: Buckthorn/invasive vegetation removal from Seavey drainage ditch – Route 60 to Arbortheater/kids castle. Joint project with Vernon Hills Park District.

2010/11: The Village contracted to restore 1400 lineal feet of streambank between Butterfield Road and Hazeltine at the Seavey Ditch. Closed out both 319h and WMB grants.

Part C. MS4 Information and Data Collection Results, Year 13

Annual Monitoring and Data Collection, Year 13

Information and data that the MS4 collected to meet the annual monitoring requirement of General NPDES Permit No. ILR40 are summarized below.

Due to budgetary constraints, no information or monitoring data was collected during Year 9. However, during Year 10, the MS4 anticipates that it will identify appropriate water quality sampling locations and begin conducting annual monitoring at these locations. Monitoring parameters will likely include: [list of monitoring parameters (e.g., copper, phosphate, chlorine, ammonia, alkalinity, and pH)].

2012/13: The Village sampled water in the Seavey Ditch at 2 locations in the village, at the inflow near Hazeltine Drive and the outflow near the Sugar Creek Park. Hazeltine test results, pH 7.5, Total alkalinity 180 ppm, Total Hardness 180 ppm, Nitrate 0, Nitrite 0, Iron 0.0, Copper 0.0, Free Chlorine 0.0, Total Chlorine 0.0. Sugar Creek Park test results, pH 7.5, Total alkalinity 120 ppm, Total Hardness 120 ppm, Nitrate 0, Nitrite 0, Iron 0.0, Copper 0.0, Free Chlorine 0.0, Total Chlorine 0.0.

2013/14: The Village sampled water in the Seavey Ditch at 2 locations in the village, at the inflow near Hazeltine Drive and the outflow near the Sugar Creek Park. Hazeltine test results, pH 6.5, Total alkalinity 80 ppm, Total Hardness 180 ppm, Nitrate 0, Nitrite 0, Iron 0.0, Copper 0.1, Free Chlorine 0.0, Total Chlorine 0.0. Sugar Creek Park test results, pH 8.0, Total alkalinity 180 ppm, Total Hardness 180 ppm, Nitrate 0, Nitrite 0, Iron 0.0, Copper 0.1, Free Chlorine 0.0, Total Chlorine 0.0.

2014/15: The Village sampled water in the Seavey Ditch at 2 locations in the village, at the inflow near Hazeltine Drive and the outflow near the Sugar Creek Park. Hazeltine test results, pH 7.0, Total alkalinity 120 ppm, Total Hardness 50 ppm, Nitrate 0, Nitrite 0, Iron 0.0, Copper 0.0, Free Chlorine 0.0, Total Chlorine 0.0. Sugar Creek Park test results, pH 7.0, Total alkalinity 120 ppm, Total Hardness 0 ppm, Nitrate 0, Nitrite 0, Iron 0.0, Copper 0.1, Free Chlorine 0.0, Total Chlorine 0.0.

2015/16: The Village joined the Upper Des Plaines River Watershed consortium who performs sampling and water testing.

IDDE Monitoring and Data Collection, Year 13

Information and data that the MS4 collected as part of its illicit discharge detection and elimination program are summarized below.

Due to budgetary constraints, no dry weather flow investigations were conducted during Year 10. However, during Year 11, the MS4 anticipates that it will continue its dry weather flow investigations and associated water quality testing in accordance with the procedures outlined in its SMPP.

Due to budgetary constraints, no dry weather flow investigations were conducted during Year 11. However, during Year 12, the MS4 anticipates that it will continue its dry weather flow investigations and associated water quality testing in accordance with the procedures outlined in its SMPP.

The Village worked with the Upper Des Plaines Watershed to develop a sampling program and protocols. This newly formed group will share data to better understand hot spots. Consultant to

be hired by the Watershed Group and funded by the member municipalities starting June 1, 2015.

Part D. MS4 Summary of Year 13 Stormwater Activities

The table below indicates the stormwater management activities that the MS4 plans to undertake during Year 14. Additional information about the stormwater management activities that the MS4 will perform during Year 14 is provided in the section following the table.

Note: X indicates BMPs that will be implemented during Year 14

Year 14	
MS4	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
	A.6 Other Public Education
B. Public Participation/Involvement	
	B.1 Public Panel
	B.2 Educational Volunteer
	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
	C.1 Storm Sewer Map Preparation
	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 14	
MS4	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
	D.3 Other Waste Control Program
	D.4 Site Plan Review Procedures
	D.5 Public Information Handling Procedures
	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
	E.2 Regulatory Control Program
	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

Please note that the most recent version of IEPA's General NPDES Permit No. ILR40 (Permit) expired on March 31, 2014, but has been administratively continued by IEPA. Since the new version of the Permit has not yet been released to the public, and there is not yet a timeline for its release, the MS4 assumes that the most recent version of the Permit will continue to apply through the at least the end of Year 13. The MS4 remains committed to performing activities related to the six MCMs described in the most recent version of the Permit.

Stormwater Management Activities, Year 14

During Year 14, the MS4 plans to continue to perform a variety of stormwater management activities, as described in detail in the MS4's SMPP and in brief below. The MS4's SMPP can be viewed at [website address]. It is also attached for reference.

A. Public Education and Outreach

The MS4 is committed to implementing the Public Education and Outreach component of its SMPP. The MS4's Public Education and Outreach program includes: the distribution of educational material to the community or conducting equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce those impacts; supporting classroom education; supporting storm drain stenciling efforts; and, supporting SWALCO events.

Measurable Goal(s): Implement BMPs and track progress of BMP implementation, as described in the SMPP.

B. Public Participation/Involvement

The MS4 is committed to implementing the Public Participation/Involvement component of its SMPP. The MS4's Public Participation/Involvement program includes: maintaining a process for receiving and processing citizen input; attending and publicizing stakeholder meetings; presenting program information at a public meeting at least once annually; and, publicizing IDDE reporting contact numbers.

Measurable Goal(s): Implement BMPs and track progress of BMP implementation, as described in the SMPP.

C. Illicit Discharge Detection and Elimination

The MS4 will conduct activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control measure. According to IEPA's General NPDES Permit No. ILR40, the MS4's IDDE program must include:

- A storm sewer system map showing the locations of all outfalls and the names and locations of all waters that receive discharges from those outfalls;
- An ordinance or other regulatory mechanism that prohibits all non-storm water discharges into the storm sewer system and provides the authority for appropriate enforcement procedures and actions;
- A plan to detect and address all non-stormwater discharges, including illegal dumping, into the storm sewer system;

- A program to educate public employees, businesses, and the general public about the hazards associated with illegal discharges and improper disposal of waste; and,
- Periodic (annual is recommended) inspection of storm sewer outfalls for detection of non-stormwater discharges and illegal dumping.

Measurable Goal(s): Implement BMPs and track progress of BMP implementation, as described in the SMPP.

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. The WDO, which is administered and enforced within the Village of Vernon Hills establishes standards for construction site runoff control.

*Measurable Goal(s): Implement BMPs and track progress of BMP implementation, as described in the SMPP.
Enforce WDO*

E. Post-Construction Runoff Control

As described above, the countywide WDO establishes the minimum stormwater management requirements for development in Lake County. The WDO establishes standards for post-construction site runoff control. These standards apply to any new development or redevelopment resulting in over 0.5 acres of new impervious area. The MS4's SMPP also includes inspection procedures for pre-WDO developments, streambanks and shorelines, streambeds, and detention/retention ponds.

*Measurable Goal(s): Implement BMPs and track progress of BMP implementation, as described in the SMPP.
Enforce WDO*

F. Pollution Prevention/Good Housekeeping

The Village of Vernon Hills is committed to implementing the Pollution Prevention/Good Housekeeping component of its SMPP. The Village of Vernon Hills Pollution Prevention/Good Housekeeping program includes: the evaluation and improvement of municipal policies and procedures to reduce the discharge of pollutants from municipal activities and operations; and, a training program for municipal employees.

Measurable Goal(s): Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Stormwater Management Activities, Year 14

The stormwater management activities that the Village of Vernon Hills plans to perform during Year 14 are described in detail below.

Please note that the most recent version of IEPA's General NPDES Permit No. ILR40 (Permit) expired on March 31, 2014, but has been administratively continued by IEPA. Since the new version of the Permit has not yet been released to the public, and there is not yet a timeline for its release, the Village of Vernon Hills assumes that the most recent version of the Permit will continue to apply through the at least the end of Year 13. The Village of Vernon Hills remains committed to performing activities related to the six MCMs described in the most recent version of the Permit.

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 13 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 13.
- **Part E3** summarizes the information and data collected by the QLP during Year 13.
- **Part E4** describes the stormwater management activities that the QLP plans to undertake during Year 14.
- **Part E5** lists the construction projects conducted by the QLP during Year 13.

Part E1. QLP Changes to Best Management Practices, Year 13

Note: X indicates BMPs that were implemented as planned
 ✓ indicates BMPs that were changed during Year 13

Year 13	
QLP	
A. Public Education and Outreach	
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. Public Participation/Involvement	
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
C. Illicit Discharge Detection and Elimination	
	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 13	
QLP	
D. Construction Site Runoff Control	
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
E. Post-Construction Runoff Control	
	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
F. Pollution Prevention/Good Housekeeping	
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 13

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 13 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.

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.

A.3 Public Service Announcement

Measurable Goal(s): Include public service announcement highlighting community accomplishments related to IEPA's NPDES Stormwater Program in "Mainstream" once annually. Post watershed identification signage with LCDOT. Upon request, present "The Big Picture: Water Quality, Regulations & NPDES" to Lake County MS4s.

SMC includes announcements highlighting community accomplishments related to IEPA's NPDES Stormwater Program on its website, in its newsletter, and through other media outlets.

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.

A.4 Community Event

Measurable Goal(s): Sponsor or co-sponsor workshop on a topic related to IEPA's NPDES Stormwater Program.

SMC sponsored or co-sponsored a number of workshops and events on stormwater-related topics between March 1, 2014 and February 28, 2015, including:

- **Webcast on The Life of a Stormwater Practice: The Role of Local Codes on Mar. 12, 2014**
- **Presentation from IEPA on IEPA's Proposed New General NPDES Permit No. ILR40 at Mar. 19, 2014 MAC meeting**
- **Presentation on Des Plaines River Watershed Workgroup at Mar. 19, 2014 MAC meeting**
- **Designated Erosion Control Inspector (DECI) Workshop held on Mar. 28, 2014**
- **Webcast on The Life of a Stormwater Practice: Design and Construction of BMPs on Apr. 9, 2014**
- **Homeowners Association (HOA) Stormwater Maintenance Workshop held on Apr. 16, 2014**
- **Fox River/Chain O'Lakes river clean-up in Fox Lake, Port Barrington & Antioch, IL May 3, 2014**
- **Chicago River Day clean-up in Highland Park, Lake Forest & Deerfield, IL on May 9, 2014**
- **Rain Barrel, Compost Bin, and Native Plant Sale held on May 9, 2014**
- **Webcast on The Life of a Stormwater Practice: BMP Maintenance on May 21, 2014**
- **Presentation on Fox River Study Group's Fox River Implementation Plan at Jun. 11, 2014 MAC meeting**
- **Presentation on ASCE's Envision's Rating System at Jun. 11, 2014 MAC meeting**
- **Webcast on How to Pick the Right Vegetation for Bioretention and Its Cousins on Jun. 11, 2014**
- **Workshop on Watershed-Based Planning at Beyond the Basics 2014: Making Green Stormwater Practices Pay Off for Your Community Conference on Sep. 9, 2014**
- **Webcast on Stream Restoration as a Pollutant Reduction Strategy on Sep. 10, 2014**
- **Presentation on Municipal Spill Response Programs at Sep. 10, 2014 MAC meeting**
- **Des Plaines River clean-up in Riverwoods, IL on Sep. 13, 2014**
- **Presentation on the Illinois Urban Manual at Sep. 10, 2014 MAC meeting**
- **Roadway De-Icing Workshop held on Oct. 7 & 8, 2014**
- **Webcast on Implementing TMDLs: Local TMDLs and Regional/River Basin TMDLs: A Happy Engagement or a Shotgun Wedding on Oct. 8, 2014**
- **Webcast on Implementing TMDLs: Retrofitting Existing Stormwater Ponds & Basins on Nov. 12, 2014**
- **Presentation from IEPA on the Requirements of and Expectations Associated with IEPA's General NPDES Permit No. ILR40 at Dec. 10, 2014 MAC meeting**

- **Webcast on Using Illicit Discharge Programs to Monitor Bacteria on Feb. 18, 2015**

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.

Stormwater educational materials were compiled for use at several public education events that were held between March 1, 2014 and February 28, 2015, including:

- **Lake County Green Living Fair held in Libertyville, IL on Mar. 15, 2014**
- **Homeowners Association (HOA) Stormwater Maintenance Workshop held on Apr. 16, 2014**
- **Rain Barrel, Compost Bin, and Native Plant Sale held on May 9, 2014**
- **Village of Round Lake Public Works Week Celebration held in Round Lake, IL on May 21, 2014**
- **League of Women Voters Presentations on Lake Michigan: Stormwater From the Ground Up held in various locations on Jul. 9, Jul. 31, and Sep. 14, 2014**

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.

As new information and resource materials become available, they are posted to the SMC website and/or distributed directly to Lake County MS4s.

SMC continues to make available "The Big Picture: Water Quality, Regulations & NPDES" presentation to Lake County MS4s.

B. Public Participation/Involvement

B.1 Public Panel

Measurable Goal(s): Provide notice of public meetings on SMC website.

Track number of meetings conducted.

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 12. According to records, there were 9 SMC meetings, 2

TAC meetings, 4 MAC meetings, and 1 WMB meeting conducted during this reporting period.

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.*

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 12:

- **North Branch Chicago River Planning Committee – 4**
- **North Branch Watershed Consortium – 1**
- **Mill Creek Watershed Planning Committee – 1**
- **Bull Creek/Bull's Brook Watershed Council – 4**
- **Buffalo Creek Clean Water Partnership – 5**
- **Flint Creek Watershed Partnership – 2**
- **Tower Lake Drain Watershed Partnership – 4**
- **9 Lakes Watershed Planning Committee – 2**

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 12.
Prepare annual report on Qualifying Local Program activities at end of Year 12.*

SMC tracked the number of Municipal Advisory Committee (MAC) meetings conducted during Year 12. According to records, there were 4 MAC meetings conducted during this reporting period.

The stormwater management activities that SMC performed as a QLP during Year 12 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 13 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.

SMC continues to enforce the countywide WDO.

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.

SMC sponsored or co-sponsored a number of workshops and events on stormwater-related topics between March 1, 2014 and February 28, 2015. 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.*

SMC continues to enforce the countywide WDO.

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

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.*

SMC continues to enforce the countywide WDO.

The TRM is currently being updated to include guidance on the WDO amendments as well as ordinance administration and enforcement.

D.3 Other Waste Control Program

Measurable Goal(s): Enforce WDO provisions regarding the control of waste and debris at construction sites.

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.*

SMC continues to track the number of enforcement officers (EOs) who have passed the EO exam and have become EOs. According to records, as of the end of Year 12, there were 67 EOs in Lake County.

SMC last completed a cycle of the community re-certification process, which included a performance review of all 53 certified and non-certified communities, during a previous reporting period (i.e., Year 9). In accordance with the amended countywide WDO, the next cycle of the community re-certification process is scheduled to be completed in 2017.

The TRM is currently being updated to include guidance on the WDO amendments 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.

SMC continues to track the number of complaints received and processed related to soil erosion and sediment control. According to records, between March 1, 2014 and February 28, 2015, 4 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.

SMC continues to track the number of site inspections conducted by SMC staff. According to records, between March 1, 2014 and February 28, 2015, 655 site inspections were conducted by SMC staff.

E. Post-Construction Runoff Control

E.2 Regulatory Control Program

Measurable Goal(s): Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

E.3 Long Term O&M Procedures

Measurable Goal(s): Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

E.4 Pre-Construction Review of BMP Designs

Measurable Goal(s): Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

E.5 Site Inspections During Construction

Measurable Goal(s): Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

E.6 Post-Construction Inspections

Measurable Goal(s): Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

E.7 Other Post-Construction Runoff Controls

Measurable Goal(s): Conduct annual WMB meeting.

Contribute funding to flood reduction and water quality improvement projects, including stormwater retrofits, through the WMB.

The annual WMB meeting was held on Dec. 11, 2014.

At the annual WMB meeting, 16 flood reduction and water quality improvement projects, including stormwater retrofit projects, were selected to receive \$152,000 of funding through the WMB.

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 software.

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, 2014 and February 28, 2015. 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, 2014 and February 28, 2015, 1 MS4 borrowed the Excal Visual software.

F.5 Flood Management/Assess Guidelines

Measurable Goal(s): Track number of projects that are reviewed for multi-objective opportunities.

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

Part E3. QLP Information and Data Collection Results, Year 12

The QLP did not collect any monitoring data on behalf of Lake County's MS4s during Year 12. However, SMC has reviewed information presented by the Illinois EPA in the 2014 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 April 2015

This brief report is based on information contained in the Illinois EPA's 2014 Illinois Integrated Water Quality Report and Section 303(d) List, dated March 24, 2014. Its purpose is to provide basic information to Lake County's MS4 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 2014 Illinois Integrated Water Quality Report and Section 303(d) List.

Streams

An analysis of data accompanying the Illinois EPA's 2014 Illinois Integrated Water Quality Report and Section 303(d) List shows that 183 stream miles in Lake County have been assessed by the Illinois EPA for attainment of at least one designated use. The degree of support (attainment) of a designated use in a particular stream segment is determined by the Illinois EPA through an analysis of various types of information, including biological, physicochemical, physical habitat, and toxicity data. When sufficient data are available, the Illinois EPA assesses each applicable designated use in a particular stream segment as Fully Supporting (good), Not Supporting (fair), or Not Supporting (poor). Waters in which at least one applicable use is not fully supported are called "impaired."

An analysis of data accompanying the Illinois EPA's 2014 Illinois Integrated Water Quality Report and Section 303(d) List shows that 139 stream miles (of the 183 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.

Lakes

An analysis of data accompanying the Illinois EPA's 2014 Illinois Integrated Water Quality Report 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. As with streams, the degree of support (attainment) of a designated use in a particular lake is determined by the Illinois EPA through an analysis of various types of information, including biological, physicochemical, physical habitat, and toxicity data. When sufficient data are available, the Illinois EPA assesses each applicable designated use in a particular lake as Fully Supporting (good), Not Supporting (fair), or Not Supporting (poor). Waters in which at least one applicable use is not fully supported are called "impaired."

An analysis of data accompanying the Illinois EPA's 2014 Illinois Integrated Water Quality Report and Section 303(d) List shows that 135 inland lakes in Lake County are considered impaired by the Illinois EPA. These lakes have been mapped and are shown in Figure E3.1.

Lake Michigan

Lake Michigan is monitored by the Illinois EPA through the Lake Michigan Monitoring Program. Bordering Cook and Lake Counties, the State of Illinois has jurisdiction over approximately 1,526 square miles of open water, 2.62 square miles of harbors, and 64 shoreline miles of Lake Michigan.

196 square miles of open water of Lake Michigan, or about thirteen percent of the total open water located within Illinois, were assessed for the Illinois EPA's 2014 Illinois Integrated Water Quality Report and Section 303(d) List, and all 196 assessed square miles were rated as Fully Supporting for the following uses: aquatic life use, primary contact use, secondary contact use, and public and food processing water supply use. However, fish consumption use in all 196 assessed square miles of open water was rated as Not Supporting due to contamination from polychlorinated biphenyls (PCBs) and mercury. Additionally, aesthetic quality use in all 196 assessed square miles of open water was rated as Not Supporting due to exceedances of the Lake Michigan open water standard for total phosphorus. It should be noted that such exceedances do not necessarily indicate that there are offensive conditions in Lake Michigan due to excessive algal or aquatic plant growth.

A portion of all 2.62 square miles of harbors of Lake Michigan located in Illinois were assessed for the Illinois EPA's 2014 Illinois Integrated Water Quality Report and Section 303(d) List for several different designated uses. 66.7 percent of the square miles of harbors assessed for aesthetic quality (i.e., 0.12 of 0.18 sq. mi.) were rated as Fully Supporting, while the remaining 33.3 percent (i.e., 0.06 of 0.18 sq. mi.) were rated as Not Supporting. 97.6 percent of the square miles of harbors assessed for aquatic life use (i.e., 2.52 of 2.58 sq. mi.) were rated as Fully Supporting, while the remaining 2.4 percent (i.e., 0.06 of 2.58 sq. mi.) were rated as Not Supporting. 100 percent of the square miles of bays and harbors assessed for fish consumption (i.e., 2.62 of 2.62 sq. mi.), were rated as Not Supporting. Potential causes of impairment in the harbors of Lake Michigan located in Illinois include contamination from polychlorinated biphenyls (PCBs), mercury, bottom deposits, lead, zinc, cadmium, arsenic, phosphorus, copper, and chromium.

A portion of all 64 shoreline miles of Lake Michigan located in Illinois were assessed for the Illinois EPA's 2014 Illinois Integrated Water Quality Report and Section 303(d) List for several different designated uses. All 64 of the shoreline miles assessed for fish consumption and primary contact use were rated as Not Supporting due to bacterial contamination from *Escherichia coli* (*E. coli*) bacteria and contamination from polychlorinated biphenyls (PCBs) and mercury.

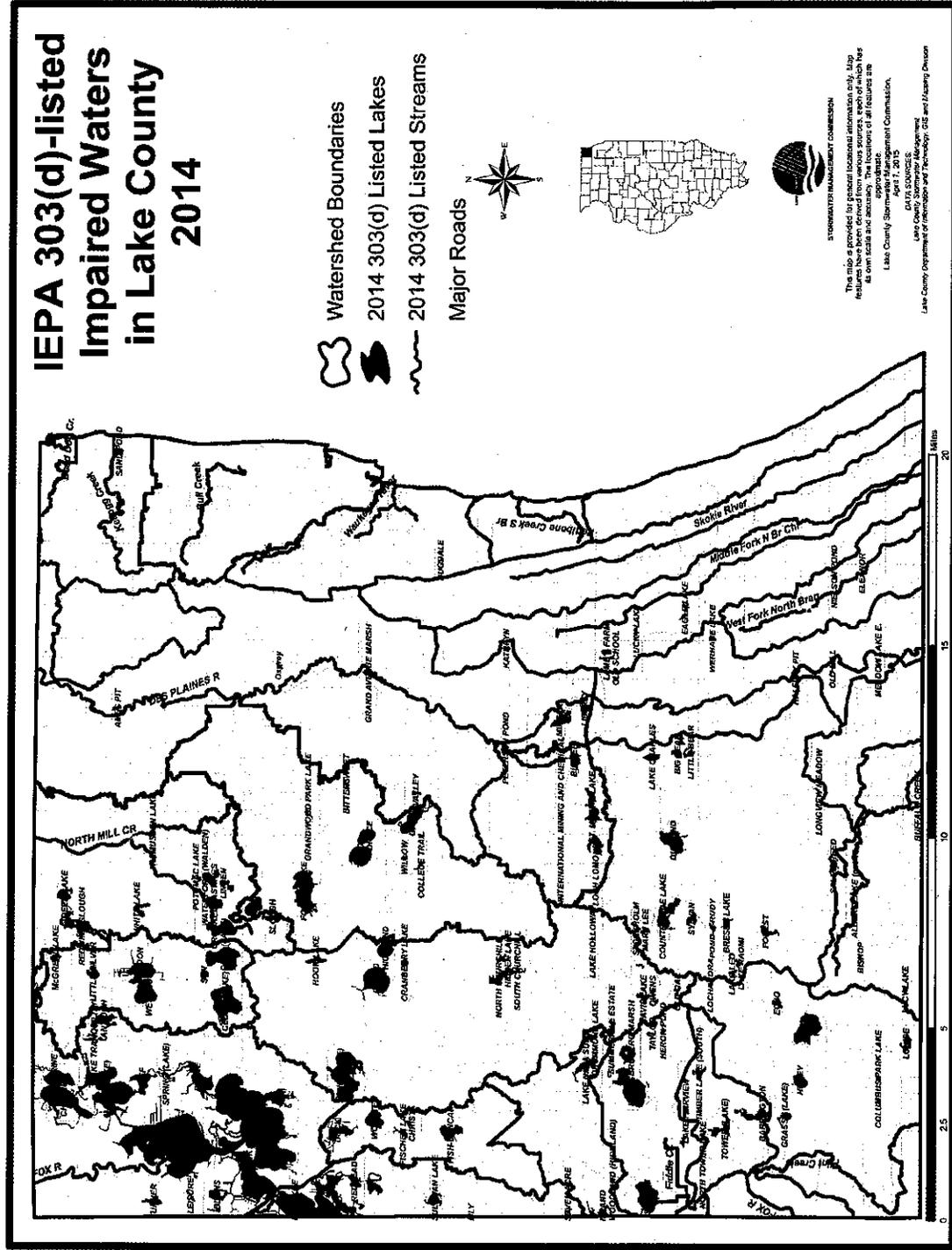


Figure E3.1

Part E4. QLP Summary of Year 13 Stormwater Activities

The table below indicates the stormwater management activities that the QLP plans to undertake during Year 13. Additional information about the BMPs and measurable goals that the QLP will implement during Year 13 is provided in the section following the table.

Note: X indicates BMPs that will be implemented during Year 13

Year 13	
QLP	
A. Public Education and Outreach	
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. Public Participation/Involvement	
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
C. Illicit Discharge Detection and Elimination	
	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 13	
QLP	
D. Construction Site Runoff Control	
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
E. Post-Construction Runoff Control	
	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
F. Pollution Prevention/Good Housekeeping	
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

Please note that the most recent version of IEPA's General NPDES Permit No. ILR40 (Permit) expired on March 31, 2014, and that the new version of the Permit has not yet been released to the public. Although it is difficult to accurately predict the changes that IEPA will make to the new version of the Permit, SMC remains committed to performing activities related to the six MCMs described in the most recent version of the Permit.

During Year 13, SMC plans to continue to perform a variety of stormwater management activities, as described in more detail below. In addition to the stormwater management activities described below, SMC will continue to provide general support to Lake County MS4s as they continue to implement their stormwater management programs.

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. SMC has produced a number of pamphlets and brochures related to stormwater management and prepares a quarterly newsletter, "Mainstream," as well as an Annual Report, which highlight successful stormwater management activities conducted throughout Lake County. SMC also prepares project fact sheets that provide information about ongoing and recently completed stormwater management projects. In addition, SMC has developed or collaborated on a number of manuals related to stormwater management, such as "Riparian Areas Management: A Citizen's Guide," "A Citizen's Guide to Maintaining Stormwater Best Management Practices," and the "Streambank Stabilization Manual," and will continue to develop or collaborate on such manuals or manual updates on an as-needed basis.

Measurable Goal(s): 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

A public service announcement related to IEPA's NPDES Stormwater Program will be included in SMC's Quarterly Newsletter, "Mainstream," at least once each year. SMC will coordinate 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 announcement related to IEPA's NPDES Stormwater Program in its quarterly newsletter, "Mainstream," at least once each year.
Post watershed identification signage in cooperation and collaboration with LCDOT.*

A.4 Community Event

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 a topic related to IEPA's NPDES Stormwater Program.

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 includes webpages such as "National Pollutant Discharge Elimination System Stormwater Program," "Best Management Practices," "Projects," "Publications," "Watershed Management Plans," "Partnerships," and "Advisory Committees." These webpages provide 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, 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.

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.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.4 Public Hearing

SMC coordinates and conducts public meetings as well as committee meetings that are open to the public. A monthly Stormwater Management Commission meeting is open to the public and involves the SMC Board of Commissioners, which includes six municipal representatives and six county board members.

The Technical Advisory Committee (TAC) was created in 1992 to assist in the development, review, and revision of the Watershed Development Ordinance (WDO) and the associated administrative policies and procedures. TAC is made up of representatives from the development, environmental, municipal, and consulting engineering fields. TAC meetings are held monthly or on an as-needed basis.

The Municipal Advisory Committee (MAC) is made up of municipal, township, drainage district, consulting firm, and county representatives. MAC has worked to discuss, coordinate, and collaborate on the implementation of IEPA's NPDES Stormwater Program. MAC will continue to meet quarterly or as needed to assist Lake County MS4s with the implementation of IEPA's Stormwater Program.

The Watershed Management Board (WMB) meets annually to make recommendations on stormwater BMP project funding. WMB members include chief municipal elected officials, township supervisors, drainage district chairs, and county board members from each district within each of Lake County's four major watersheds.

*Measurable Goal(s): Provide notice of public meetings on SMC website.
Track number of meetings conducted.*

B.6 Program Coordination

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 on Qualifying Local Program stormwater management activities.
Prepare template for use by Lake County MS4s in creating their own annual reports.*

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.

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. Each year, SMC will sponsor or co-sponsor an illicit discharge detection and elimination workshop or other training workshop related to IEPA's NPDES Stormwater Program and track the number of attendees that attend the workshop.

Additionally, as part of its public education and outreach efforts, SMC distributes informational materials throughout Lake County about the hazards associated with illegal discharges and the improper disposal of waste.

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. SMC will continue to support Lake County MS4s in the implementation of the Construction Site Runoff Control minimum control measure by administering and enforcing the WDO and performing other stormwater management activities, as described below. Note, however, that the primary responsibility for the implementation of the Construction Site Runoff Control minimum control measure in certified communities (i.e., communities certified by SMC to administer and enforce the provisions of the WDO) lies with the MS4.

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. The soil erosion and sediment control provisions of the WDO are included in Article IV, Section B.1.j. of the ordinance. At a minimum, these standards apply to any development project that hydrologically disturbs 5,000 square feet of land or more.

SMC has also created a Designated Erosion Control Inspector (DECI) program. The purpose of the program is to facilitate positive communication between the permit issuing agency, whether such agency be SMC or a certified community, and the permit holder, by creating a single point of contact for the discussion and resolution of site soil erosion and sediment control issues and concerns. Furthermore, the program is intended to improve site conditions, minimize environmental impacts, and educate contractors, developers, and inspectors about the use of soil erosion and sediment control BMPs. It is worth noting that the DECI program was 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

Article IV, Section B.1.j 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. It specifies the use of a variety of soil erosion and sediment control BMPs, including: minimize soil disturbance; protect adjoining properties from erosion and sedimentation; complete installation of soil erosion and sediment control features prior to commencement of hydrologic disturbance; stabilize disturbed areas within 7 days of active disturbance; avoid disturbance of streams whenever possible; use controls that are appropriate for the size of the tributary drainage area; protect functioning storm sewers from sediment; prevent sediment from being tracked onto adjoining streets; limit earthen embankments to slopes of 3H:1V; identify soil stockpile areas; and, utilize statewide standards and specifications as guidance for soil erosion and sediment control.

SMC has also prepared a Technical Reference Manual (TRM) to accompany the WDO. The TRM is used to guide the creation of development plans that are in compliance with the provisions of the WDO and provides detailed information on the use of soil erosion and sediment control BMPs. It is currently being updated by the Technical Advisory Committee (TAC).

*Measurable Goal(s): Continue to administer and enforce the WDO.
Continue to work on updates to the Technical Reference Manual (TRM) and toward publication of the updated document.*

D.3 Other Waste Control Program

Article IV, Section B.1.j. of the WDO includes provisions related to the control of waste and debris during construction on development sites.

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 (i.e., communities certified by SMC to administer and enforce the provisions of the WDO), responsibility for reviewing and permitting development plans and for administering and enforcing the provisions of the WDO lies with the MS4; within non-certified communities, the designated enforcement officer is SMC's chief engineer. All designated enforcement officers must pass an exam in order to qualify to act as such. 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.

SMC has also prepared a Technical Reference Manual (TRM) to accompany the WDO. The TRM is used to guide the creation of development plans that are in compliance with the provisions of the WDO and provides additional guidance on the administration and

enforcement of the ordinance. It is currently being updated by the Technical Advisory Committee (TAC).

*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.
Continue to work on updates to the Technical Reference Manual (TRM) and toward publication of the updated document.*

D.5 Public Information Handling Procedures

SMC provides a number of opportunities for the receipt and consideration of information submitted by the public. SMC's Citizen Inquiry Response System (CIRS) documents and tracks the resolution of problems and complaints reported by the public. SMC's website provides information on "who to call" for various stormwater-related problems and concerns. An Interagency Coordination Agreement between SMC, the US Army Corps of Engineers, and the Natural Resources Conservation Service specifies that if any of these agencies receive a report of a soil erosion and sediment control issue, they will relay such report to SMC. SMC will then investigate the report and prescribe appropriate corrective actions, sharing the results of such investigation with the property owner and any applicable local, state, or federal agencies. Within certified communities, such investigations are coordinated with the community's designated enforcement officer.

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 VI 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. Per the ordinance, these inspections may be conducted by a community's designated enforcement officer at any stage in the construction process. For major developments, as defined by the WDO, the enforcement officer conducts site inspections, at a minimum, upon completion of installation of soil erosion and sediment controls, prior to the start of any other land disturbing activities, and after final stabilization and landscaping, prior to the removal of soil erosion and sediment controls.

Article VII 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. If development activities on a development site are not in compliance with the requirements of the WDO, the enforcement officer may issue a stop work order on all development activity on the development site or on the development activities that are in direct violation of the WDO. In addition, failure to

comply with any of the requirements of the WDO constitutes a violation of the WDO, and any person convicted of violating the WDO may be fined.

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. SMC will continue to support Lake County MS4s in the implementation of the Post-Construction Runoff Control minimum control measure by administering and enforcing the WDO and performing other stormwater management activities, as described below. Note, however, that the primary responsibility for the implementation of the Post-Construction Runoff Control minimum control measure in certified communities (i.e., communities certified by SMC to administer and enforce the provisions of the WDO) lies with the MS4.

E.2 Regulatory Control Program

The WDO requires all applicants to adopt stormwater management strategies for controlling post-construction stormwater runoff on development sites. As outlined in Article IV, Section B.1 of the WDO, all applicants must adopt stormwater management strategies that minimize increases in stormwater runoff rates, volumes, and pollutant loads from development sites. Proposed stormwater management strategies must address the runoff volume reduction requirements described in Article IV, Section B.1.d. 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

The WDO requires that maintenance plans be developed for all stormwater management systems designed to serve major developments, as defined by the WDO. Such maintenance plans must include: a description of all maintenance tasks; an identification of the party or parties responsible for performing such maintenance tasks; a description of all permanent maintenance easements or access agreements, overland flow paths, and compensatory storage areas; and, a description of dedicated sources of funding for the required maintenance. The WDO also requires that all stormwater management systems be located within a deed or plat restriction (e.g., easement) 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 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.

Measurable Goal(s): Continue to administer and enforce the WDO.

E.5 Site Inspections During Construction

As described above, Article VI of the WDO contains both recommended and minimum requirements for the inspection of development sites. Per the ordinance, these inspections may be conducted by a community's designated enforcement officer at any stage in the construction process. For major developments, as defined by the WDO, the enforcement officer conducts site inspections, at a minimum, upon completion of installation of soil erosion and sediment controls, prior to the start of any other land disturbing activities, and after final stabilization and landscaping, prior to the removal of soil erosion and sediment controls.

Measurable Goal(s): Continue to administer and enforce the WDO.

E.6 Post-Construction Inspections

As described above, Article VI of the WDO contains both recommended and minimum requirements for the inspection of development sites. Per the ordinance, these inspections may be conducted by a community's designated enforcement officer at any stage in the construction process, including after final stabilization and landscaping, after the removal of soil erosion and sediment controls. For major developments, as defined by the WDO, the enforcement officer conducts site inspections, at a minimum, upon completion of installation of soil erosion and sediment controls, prior to the start of any other land disturbing activities, and after final stabilization and landscaping, prior to the removal of soil erosion and sediment controls.

Measurable Goal(s): Continue to administer and enforce the WDO.

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, upon request, technical assistance to local MS4s in developing and implementing their employee training programs. In addition, each year, SMC will sponsor or co-sponsor a training workshop related to pollution prevention/good housekeeping or other training workshop related to IEPA's NPDES Stormwater Program.

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 multi-objective opportunities.

Measurable Goal(s): Track number of SMC-sponsored projects that are reviewed for multi-objective opportunities.

