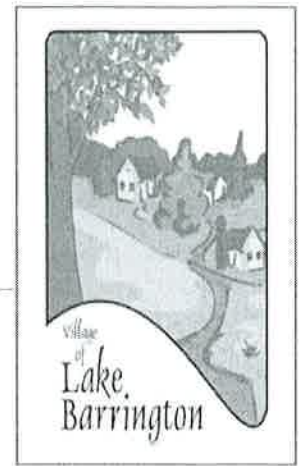


# Village of Lake Barrington

23860 Old Barrington Road  
Lake Barrington, Illinois 60010  
[www.lakebarrington.org](http://www.lakebarrington.org)  
Email: [Lakebarrington@lakebarrington.org](mailto:Lakebarrington@lakebarrington.org)  
Phone: 1-847-381-6010 Fax: 1-847-381-8557



## PRESIDENT

Kevin C. Richardson

## TRUSTEES

Lauren D. DeJesu  
Chris Mitchell  
David Raclaw  
John M. Schaller  
Andrew F. Burke  
Connie Schofield

## VILLAGE ADMINISTRATOR

Christopher A. Martin

## VILLAGE ACCOUNTANT

Deborah Vernon

## VILLAGE CLERK

Loretta Peterson

## TREASURER

James E. Purcell

## PERMIT COORDINATOR/

ADMINISTRATIVE

ASSISTANT

Erica A. Rezula

May 28, 2013

## ***Illinois Environmental Protection Agency, DPWC***

Compliance Assurance Section #19  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Re: NPDES Phase II – Year Ten Annual Report  
Lake Barrington MS4 ILR400216

To Whom it May Concern:

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

If you should have any questions or require additional information, please contact our Environmental Consultant, Ms. Irma Terry at (847) 478-9700 or [iterry@gha-engineers.com](mailto:iterry@gha-engineers.com).

Sincerely,  
Village of Lake Barrington

A handwritten signature in red ink, appearing to be "C. Martin", is written over a horizontal line.

Christopher A. Martin  
Village Administrator

Attachments

cc: Geoffrey Perry-GHA

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
ANNUAL FACILITY INSPECTION REPORT  
NPDES PERMIT FOR STORM WATER DISCHARGES  
FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)**

Complete each section of this report.

Reporting Period from: March, 2012 To: March, 2013 Permit Number : ILR400216

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

Name: Village of Lake Barrington Telephone: 847-381-6010

Mailing Address: 23860 Old Barrington Rd.

City: Lake Barrington State: IL Zip: 60010 County: Lake

Contact Person: Christopher Martin, Vill Adm; Irma Terry, Env. Consultant

(Person responsible for Annual Report)

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

Village of Lake Barrington

**THE FOLLOWING ITEMS MUST BE ADDRESSED.**

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

- |  |                          |   |                          |
|--|--------------------------|---|--------------------------|
| 1. Public Education and Outreach             | <input type="checkbox"/> | 4. Construction Site Runoff Control       | <input type="checkbox"/> |
| 2. Public Participation/Involvement          | <input type="checkbox"/> | 5. Post-Construction Runoff Control       | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle ( including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Signature: 

Date: 5/28/2013

*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))*

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

or Mail to: Illinois Environmental Protection Agency, DWPC  
Compliance Assurance Section #19  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Information required by this form must be provided to comply with 415 ILCS 5/39 (1996). Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

# **MS4 Annual Facility Inspection Report**

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

**Permit Year 10: March 2012 to February 2013**

*Village of Lake Barrington*

**Contents**

**Part A. Changes to Best Management Practices ..... A-1**

**Part B. Status of Compliance with Permit Conditions ..... B-1**

**Part C. Information and Data Collection Results ..... C-1**

**Part D. Summary of Year 11 Stormwater Activities..... D-1**

**Part E. Notice of Qualifying Local Program ..... E-1**

    Part E1. Changes to Best Management Practices.....E-2

    Part E2. Status of Compliance with Permit Conditions .....E-3

    Part E3. Information and Data Collection Results.....E-10

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    Part E5. Construction Projects Conducted During Year 10 .....E-20

**Part F. Construction Projects Conducted During Year 10 ..... F-1**

## Part A. Village of Lake Barrington - Changes to Best Management Practices, Year 10

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

**Note:** X indicates BMPs that were implemented in accordance with the Village's SWMP  
 ✓ indicates BMPs that were changed during Year 10

Year 10	
MS4	
<b>A. Public Education and Outreach</b>	
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>B. Public Participation/Involvement</b>	
	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
<b>C. Illicit Discharge Detection and Elimination</b>	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	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
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 10	
MS4	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
	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

\*There are no changes for the BMPs for Year 10.

## **Part B. Village of Lake Barrington - Status of Compliance with Permit Conditions, Year 10**

### **Stormwater Management Activities, Year 10**

The stormwater management activities that the Village performed during Year 10 and the status of each of the BMPs and measurable goals described in the Village's SWMP, as of the end of Year 10, are described below. The Village's SWMP can be viewed at:

[http://www.gha-engineers.com/ms4/ms4\\_lakebarrington/reports.html](http://www.gha-engineers.com/ms4/ms4_lakebarrington/reports.html)

Tracking forms are used to track the implementation of the BMPs described in the Village's SWMP which can be found at the above site.

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

*Measurable Goal(s): Implement, and track progress, of BMPs as described in the SWMP.*

**The Village of Lake Barrington continues to implement the BMPs described in its SWMP adopted March 2<sup>nd</sup>, 2010 and to track progress in implementing its stormwater management program.**

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

*Measurable Goal(s): Implement, and track progress, of BMPs as described in the SWMP.*

**The Village of Lake Barrington continues to implement the BMPs described in its SWMP adopted March 2<sup>nd</sup>, 2010 and to track progress in implementing its stormwater management program.**

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

*Measurable Goal(s): Implement, and track progress, of BMPs as described in the SWMP.*

**The Village of Lake Barrington continues to implement the BMPs described in its SWMP adopted March 2<sup>nd</sup>, 2010 and to track progress in implementing its stormwater management program. The storm sewer continues to be updated as needed.**

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

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

**The Village of Lake Barrington continues to implement the BMPs described in its SWMP adopted March 2<sup>nd</sup>, 2010 and to track progress in implementing its stormwater management program. The Village continues to enforce the WDO.**

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

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

**The Village of Lake Barrington continues to implement the BMPs described in its SWMP adopted March 2<sup>nd</sup>, 2010 and to track progress in implementing its stormwater management program. The Village continues to enforce the WDO.**

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

*Measurable Goal(s): Implement, and track progress, of BMPs as described in the SWMP.*

**The Village of Lake Barrington continues to implement the BMPs described in its SWMP adopted March 2<sup>nd</sup>, 2010 and to track progress in implemented its stormwater management program. A culvert on Golfview Lane by Cuba Township Road District was replaced.**

## **Stormwater Management Program Assessment, Year 10**

An overall assessment of the MS4's stormwater management program and the appropriateness of its BMPs is provided below.

The Village collected water quality sampling data during Year 10, and reviewed the data to determine whether or not it provides any evidence of reduced pollutant loads or improved water quality. The data collected from water quality sampling locations upstream and downstream of the Village's stormwater discharges show either no change or a decrease in a number of water quality parameters between the upstream and downstream sampling locations. Notable exceptions to this statement include potassium, chloride, and total dissolved solids. These values may be higher in Year 10 due to the lack of rainfall and overall low water levels. The positive findings may be attributable to the Village's stormwater management activities and indicate that the Village's stormwater management program and BMPs are appropriate.

## **Part C. Village of Lake Barrington - Information and Data Collection Results, Year 10**

### **Annual Monitoring and Data Collection, Year 10**

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

Water quality sampling was conducted within the receiving waters, both upstream and downstream of the Village's stormwater discharges. A total of 3 locations are included in the Village's annual monitoring program. At these locations, the physical characteristics of the sampling point were observed and water quality samples (i.e., grab samples) were collected. Collected water quality samples were tested for:

- Ammonia
- Chloride
- Fluoride
- Dissolved Oxygen
- Biochemical Oxygen Demand
- Phenolics
- Total Dissolved Solids
- Total Suspended Solids
- Total Kjeldahl Nitrogen
- Phosphorus (Total)
- Potassium
- Temperature
- Conductivity
- pH

Please refer to the attached tracking form for results.

### **IDDE Monitoring and Data Collection, Year 10**

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

A total of 4 dry weather flows were investigated at stormwater outfalls. Of the 4 dry weather flows, 1 of the outfalls had a potential illicit discharge.



**IEPA Annual Report  
Year 10 Tracking Forms**

# Public Education and Outreach

# Village of Lake Barrington

<u>Entry Type</u>	<u>Material</u>	<u>Method of Distribution</u>	<u>Date</u>	<u>Target Audience</u>	<u>Description</u>
A.7-Other Public Education	Weekend Update	Website/email	3/1/2012	Residents	The Village distributes a weekly email in order to keep residents up to date on the Trustee and Plan Commission Meetings, the status of relevant permits, and other valid information (3/2/12, 3/9/12, 3/16/12, 3/23/12, 4/13/12, 4/27/12, 5/4/12, 5/11/12, 5/18/12, 5/25/12, 6/1/12, 6/15/12, 6/22/12, 6/29/12, 7/13/12, 7/20/12, 8/10/12, 8/17/12, 8/31/12, 9/7/12, 9/14/12, 9/28/12, 10/5/12, 10/12/12, 10/19/12, 10/26/12, 11/2/12, 11/9/12, 11/16/12, 11/21/12, 11/30/12, 12/7/12, 12/14/12, 12/28/12, 1/4/13, 1/11/13, 1/18/13, 2/1/13, 2/8/13, 2/15/13, 2/22/13)
A.4-Community Event			3/5/2012	Residents	Barrington Area hosted a "Private Well Water Quality Testing" event/program
A.1-Distributed Paper Material	Newsletter	Mailing / website	4/1/2013	Residents	"Lake Barrington Bulletin"

# Public Participation/Involvement

# Village of Lake Barrington

<u>Entry Type</u>	<u>Date</u>	<u>Description</u>	<u>Location</u>	<u>Initials</u>
B.7-Other Public Involvement	5/5/2012	Citizens of Conservation Native Plant Sale	Lake Barrington, Citizens for Conservation Office	RM
B.7-Other Public Involvement	5/12/2012	Compost Bin & Rain Barrel Sale	Independence Grove	RM
B.7-Other Public Involvement	6/2/2012	SWALCO - Household chemical waste recycling	Lake Zurich	RM
B.3-Stakeholder Meeting	7/11/2012	Lake Country Municipal Advisory Committee Meeting	SMC Permit Center	RM
B.7-Other Public Involvement	10/26/2012	Citizens for Conservation "Make a Difference Day"	Lake Barrington, Citizens for Conservation Office	RM
B.7-Other Public Involvement	11/3/2012	SWALCO - Household electronics & batteries recycling		RM
B.3-Stakeholder Meeting	11/14/2012	Lake Country Municipal Advisory Committee Meeting	SMC Permit Center	RM
B.7-Other Public Involvement	11/26/2012	SWALCO - Household chemical waste recycling	Gurnee	RM
B.7-Other Public Involvement	1/11/2013	Attended "Friends of the Fox River" Annual Meeting	Crystal Lake	RM
B.1-Public Panel	2/1/2013	Village staff met with waste management		RM
B.7-Other Public Involvement	2/25/2013	SWALCO - Household chemical waste recycling	Gurnee	RM

# Illicit Discharge Detection and Elimination

# Village of Lake Barrington

<u>Entry Type</u>	<u>Outfall ID</u>	<u>Location Description</u>	<u>Date</u>	<u>Reason For Inspection</u>
C.7-Visual Dry Weather Screening	Basins (R-Y)	Lake Barrington	7/25/2012	Inspected 8 Basins - MS4 Annual Basin Inspection
C.7-Visual Dry Weather Screening	1-74	Lake Barrington	8/2/2012	Inspected 74 Outfalls - MS4 Annual Outfall Inspection

# Construction Site Runoff Control

# Village of Lake Barrington

**Entry Type**

**Date**

**Project Name**

**Location**

D.4-Site Plan Review Procedures

6/1/2012

Northpointe Regrading  
(ILR10I823)

Lot 1 & 3 of Northpointe

# Pollution Prevention/Good Housekeeping

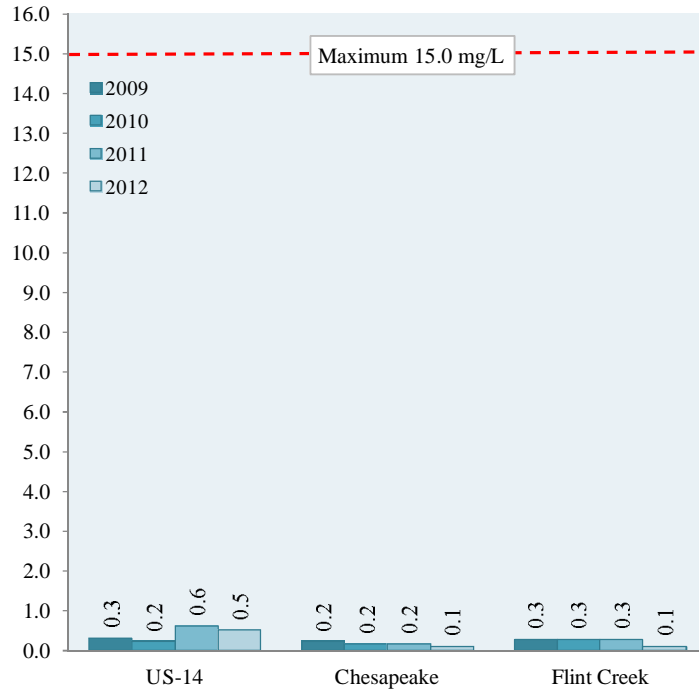
# Village of Lake Barrington

<u>Entry Type</u>	<u>Description</u>	<u>Date</u>	<u>Subject</u>	<u>Location</u>
F.6-Other Municipal Operations Controls	Culvert replacement	5/18/2012	Culvert work	Golfview by Cuba Twp Road District
F.6-Other Municipal Operations Controls	Fire restoration	6/3/2012	Construction project	7 Crestview Lane
F.2-Inspection and Maintenance Program	Inspected 15,000 linear feet of streambank	11/19/2012	Streambank inspection	Zone 3
F.2-Inspection and Maintenance Program	3,972 gallons of calcium chloride	2/28/2013	Quantities used	Lake Barrington
F.2-Inspection and Maintenance Program	245 tons of salt	2/28/2013	Quantities used	Lake Barrington

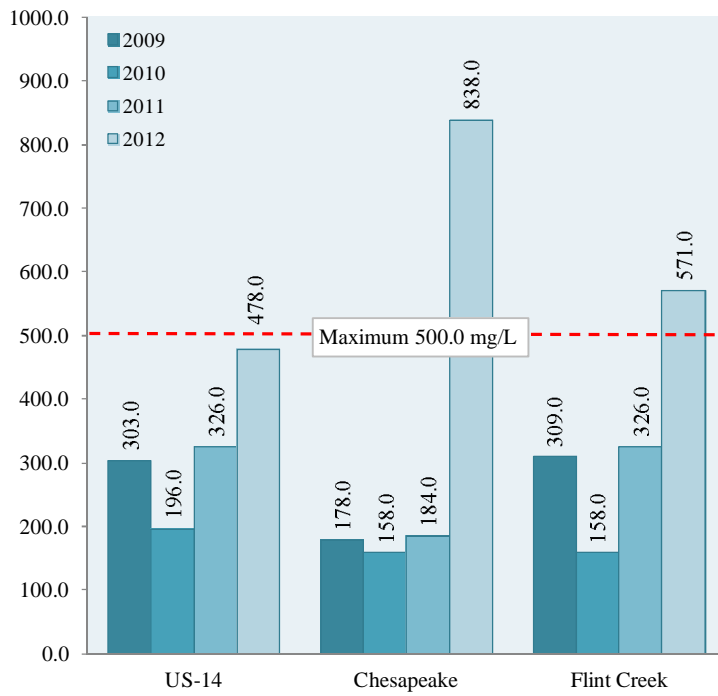
Village of Lake Barrington Water Quality Report 2012

	Illinois Water Pollution Control Board WQS*	IPCB Standards or Accepted Limits in mg/L	US 14	Chesapeake	Flint Creek
Date Tested			7/11/2012	7/11/2012	7/11/2012
Off-Site Testing					
Ammonia	302.212	15.0	0.5	0.1	0.1
Chloride	302.304	500.0	478.0	838.0	571.0
Fluoride	302.407	1.4	<0.5	<0.5	<0.5
BOD	304 Effluent Standards	<8.0	10.0	5.0	5.0
Phenolics	302.407	0.100	<0.005	<0.005	<0.005
Phosphorous, Total	302.205	0.05	0.76	0.49	1.48
Total Kjeldahl Nitrogen	Standard Methods for the Examination of Water and Wastewater	<20.0	2.8	3.2	2.5
Total Suspended Solids	304 Effluent Standards	15.0 - 30.0	57.0	17.0	12.0
Potassium	none	20.0	13.5	11.1	13.2
On-Site Testing					
pH	302.204	6.5 - 9.0	8.07	8.30	8.90
Dissolved Oxygen	302.206	March - July at least 5.0 Aug -Feb at least 3.5	3.5	5.5	11.8
Conductivity	USEPA Volunteer Stream Monitoring Manual	50-1500 µS/cm	3246.0	2579.0	2294.0
Temperature °F	302.211	Dec - Mar 60° F Max Apr - Nov 90° F Max	73.2	74.7	78.3
Total Dissolved Solids	302.304	1000	2112.5	1677.0	1488.5

\*Title 35 Part 302 Water Quality Standards unless otherwise noted.

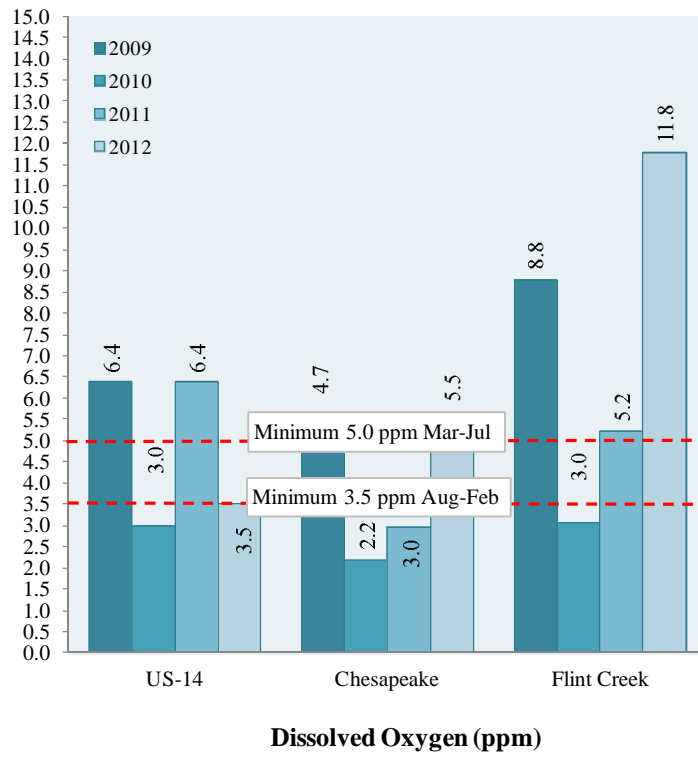
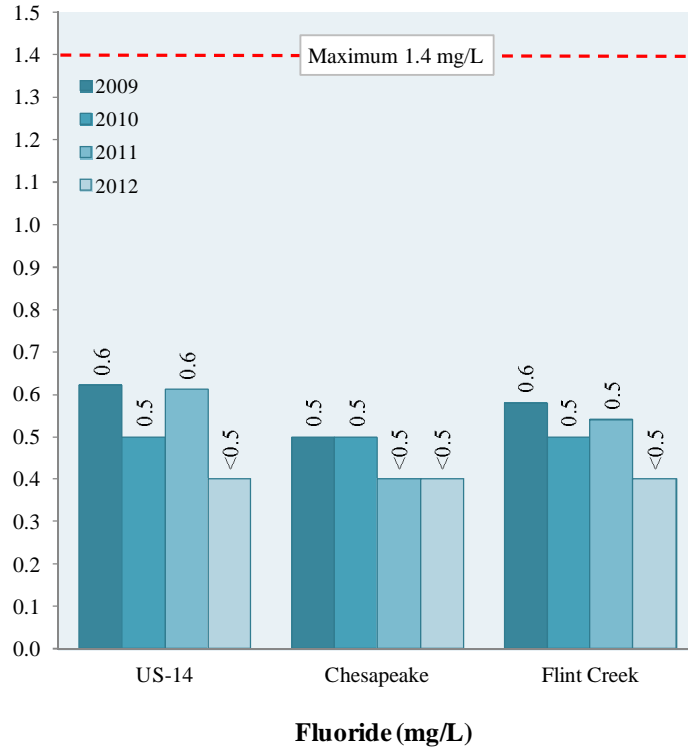


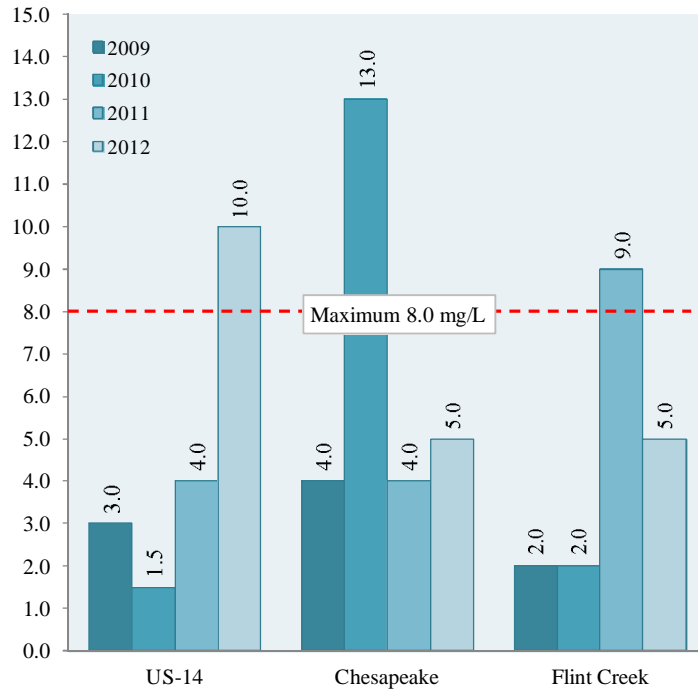
**Ammonia (mg/L)**



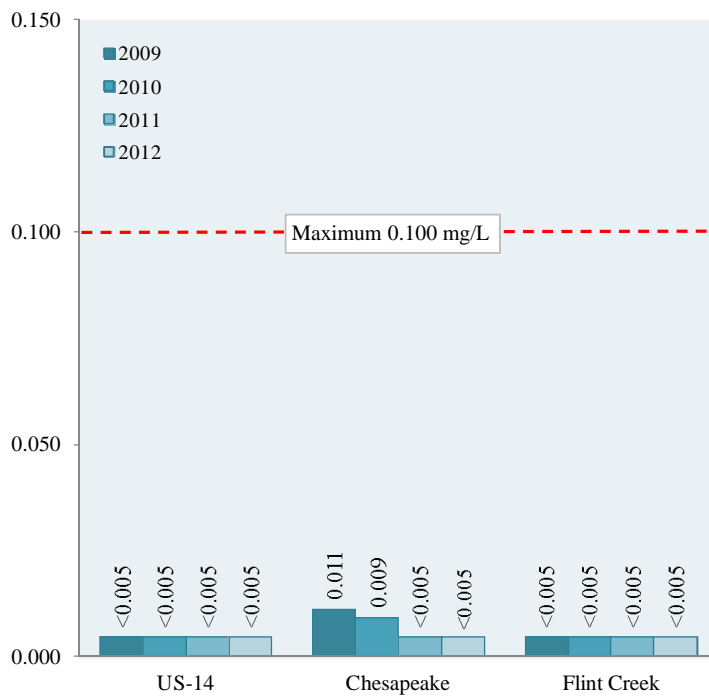
**Chloride (mg/L)**



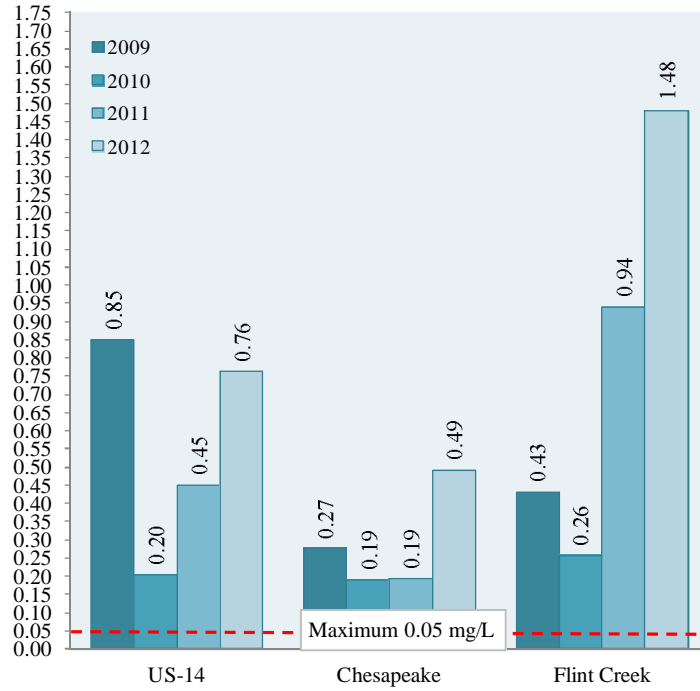




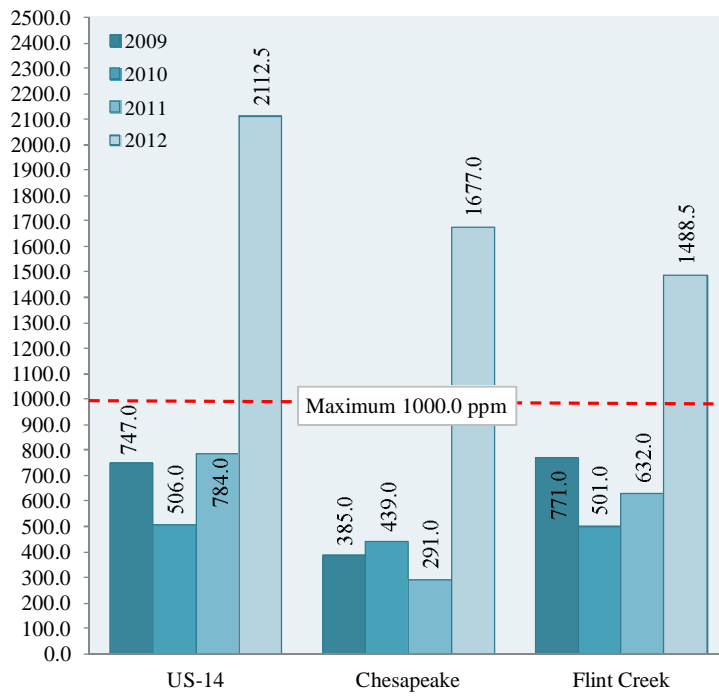
**Biochemical Oxygen Demand (mg/L)**



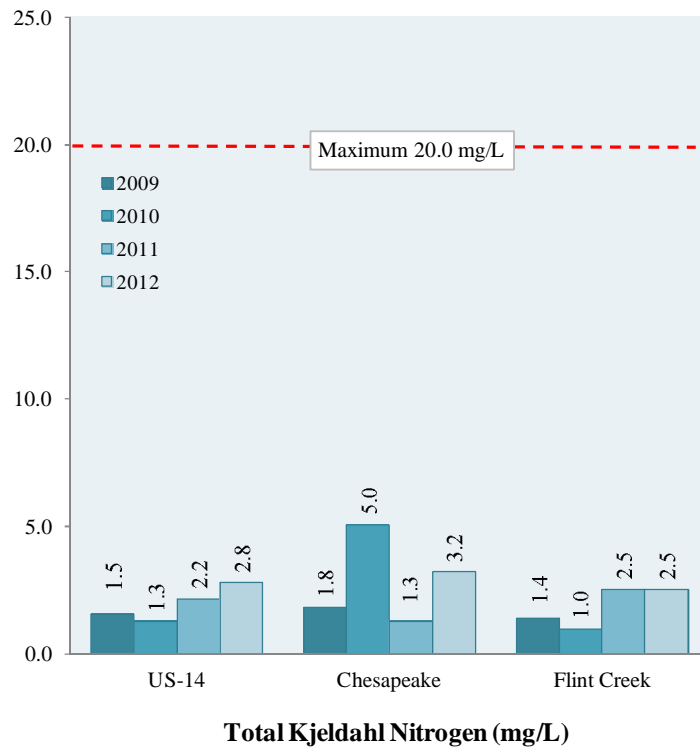
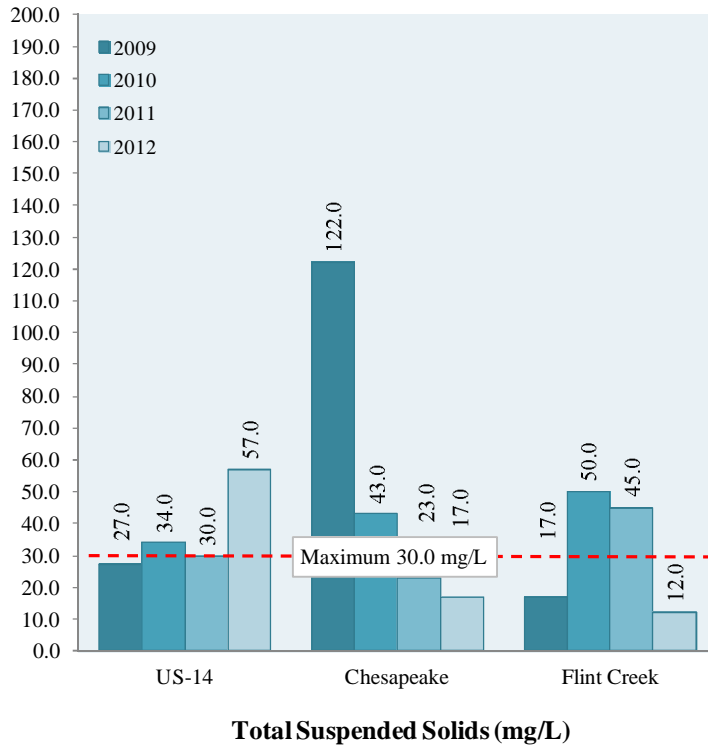
**Phenolics (mg/L)**

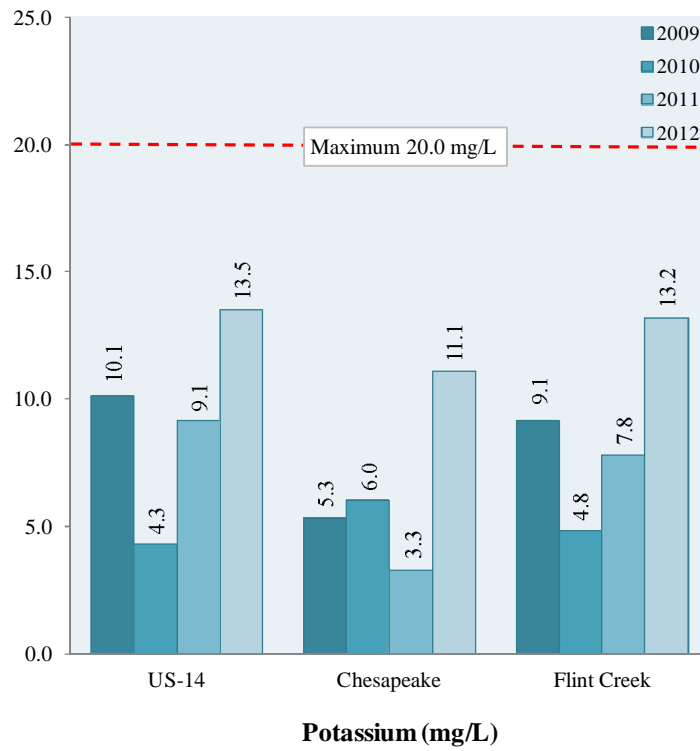
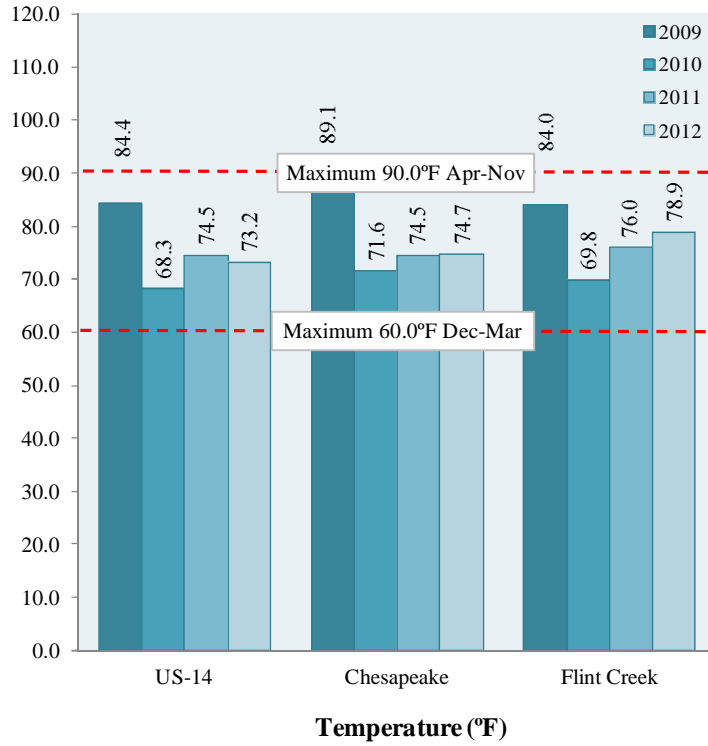


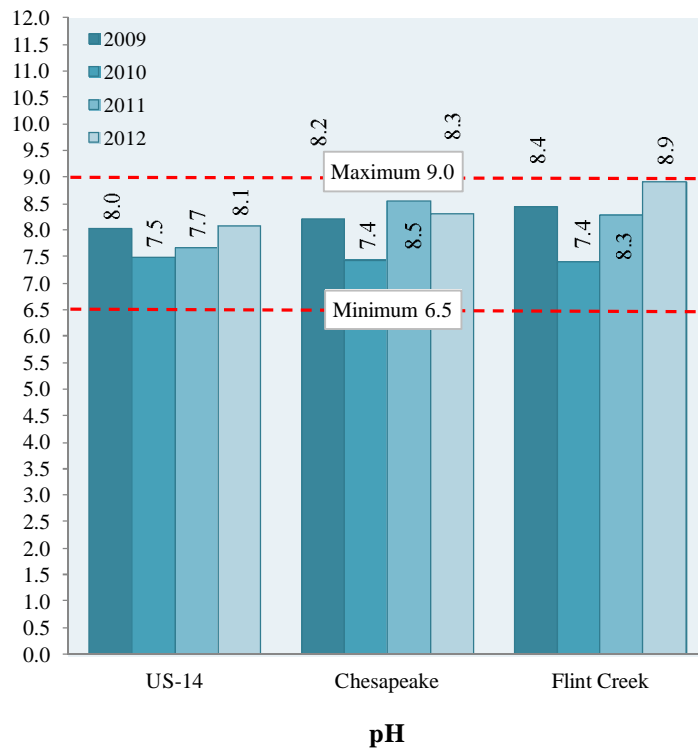
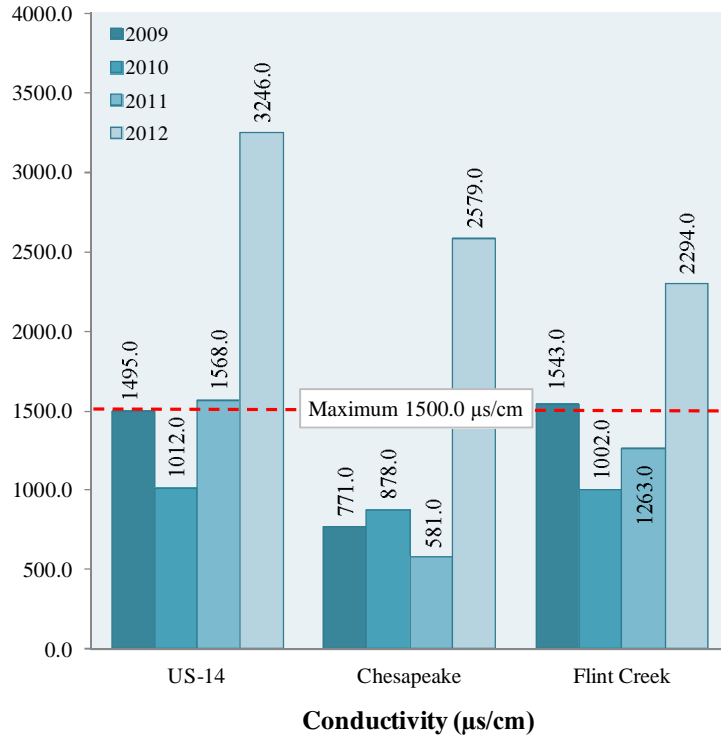
**Total Phosphorus (mg/L)**



**Total Dissolved Solids (ppm)**







## Part D. Village of Lake Barrington - Summary of Year 11 Stormwater Activities

The table below indicates the stormwater management activities that the Village plans to undertake during Year 11. Additional information about the BMPs and measurable goals that the Village will implement during Year 11 is provided in the section following the table.

**Note: X indicates BMPs that will be implemented during Year 11**

Year 11	
Lake Barrington	
<b>A. Public Education and Outreach</b>	
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>B. Public Participation/Involvement</b>	
	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
<b>C. Illicit Discharge Detection and Elimination</b>	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	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
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 11	
Lake Barrington	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
	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

The stormwater management activities that the Village plans to undertake during Year 11 are described in detail in the Village's SWMP and in brief below.

The Village's SWMP can be viewed at

[http://www.gha-engineers.com/ms4/ms4\\_lakebarrington/reports.html](http://www.gha-engineers.com/ms4/ms4_lakebarrington/reports.html)

The Village will continue to use tracking forms to track the implementation of the BMPs described in its SWMP.

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

The Village is committing to implementing the Public Education and Outreach component of its SWMP. The Village'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, and track progress, of BMPs as described in the SWMP.*

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

The Village is committing to implementing the Public Participation/Involvement component of its SWMP. The Village'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, and track progress, of BMPs as described in the SWMP.*

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

The Village will conduct activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control measure. According to the current General NPDES Permit No. ILR40, the Village'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, and track progress, of BMPs as described in the SWMP. Conduct dry weather screening and associated water quality testing in accordance with the procedures outlined in the SWMP.*

**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 community by the Village, establishes standards for construction site runoff control.

*Measurable Goal(s): Implement, and track progress, of BMPs as described in the SWMP. 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 Village's SWMP also includes inspection procedures for pre-WDO developments, streambanks and shorelines, streambeds, and detention/retention ponds.

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

**F. Pollution Prevention/Good Housekeeping**

The Village is committing to implementing the Pollution Prevention/Good Housekeeping component of its SWMP. The Village's 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, and track progress, of BMPs as described in the SWMP*

## **Part E. Notice of Qualifying Local Program**

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

- **Part E1** identifies changes to Best Management Practices (BMPs) that occurred during Year 10 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 10.
- **Part E3** summarizes the information and data collected by the QLP during Year 10.
- **Part E4** describes the stormwater management activities that the QLP plans to undertake during Year 11.
- **Part E5** lists the construction projects that were funded by the QLP during Year 10.

## Part E1. QLP Changes to Best Management Practices, Year 10

Note: X indicates BMPs that were implemented as planned  
 ✓ indicates BMPs that were changed during Year 10

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

Year 10	
QLP	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

## **Part E2. QLP Status of Compliance with Permit Conditions, Year 10**

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 10 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 the NPDES Municipal Stormwater Program on its website, in its newsletter, and through other media outlets.**

**Watershed identification signage is located throughout the county.**

**SMC made the "The Big Picture: Water Quality, Regulations & NPDES" presentation available to Lake County MS4s upon request. According to records, between March 1, 2012 and February 28, 2013, no MS4s requested the presentation.**

#### **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, 2012 and February 28, 2013, including:**

- **Webcast on Stormwater Retrofitting: A Guide to Retrofitting the World on Feb. 29, 2012**

- **Illicit Discharge Detection and Elimination Training Workshop held on Mar. 20, 2012**
- **Webcast on Stormwater Retrofit Construction Issues on Apr. 18, 2012**
- **Homeowners Association (HOA) Stormwater Maintenance Workshop held on Apr. 19, 2012**
- **Presentation on NPDES Pesticide General Permit at May 9, 2012 MAC meeting**
- **Presentation on Skokie River Stream Assessment at May 9, 2012 MAC meeting**
- **Webcast on Stream Restoration: Implementation You Can Take to the Bank on Jun. 20, 2012**
- **Presentation on the Root-Pike Watershed Initiative Network at Jul. 11, 2012 MAC meeting**
- **Designated Erosion Control Inspector (DECI) Workshop held on Aug. 1, 2012**
- **Native Landscaping for Stormwater Management Practices Workshop held on Aug. 7, 2012**
- **Webcast on Get the Dirt on Stormwater on Aug. 15, 2012**
- **Presentation on the Total Maximum Daily Load (TMDL) Program in Illinois at Sep. 12, 2011 MAC meeting**
- **Presentation on the 9 Lakes Total Maximum Daily Load (TMDL) Implementation Planning Process at Sep. 12, 2011 MAC meeting**
- **Roadway De-Icing Workshop held on Oct. 2 & 3, 2012**
- **Webcast on Leaving You Out in the Rain: Design and Implementation of Monitoring Projects on Oct. 24, 2012**
- **Presentation on Lake County, IL Pollution Prevention/Good Housekeeping Program at Nov. 14, 2012 MAC meeting**
- **Presentation on Addison, IL Illicit Discharge Detection and Elimination Program at Nov. 14, 2012 MAC meeting**
- **Webcast on Customizing Stormwater BMP Design for Specific Pollutants on Dec. 12, 2012**
- **Webcast on Losing 10 Pounds of Pollution Without Structural BMPs: the Joys of Good Housekeeping on Feb. 13, 2013**

#### **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, 2012 and February 28, 2013, including:**

- **Lake County Green Living Fair held in Libertyville on Mar. 17, 2012**
- **Abbott Labs Green Initiatives Presentation on Apr. 5, 2012**

- **Gurnee Mills Green Expo held in Gurnee on Apr. 27, 2012**
- **County Green 2012 held at the College of Lake County on May 17, 2012**
- **Loch Lomond Property Owners Association’s Loch Fest held in Mundelein on Jul. 28, 2012**
- **Wild Ones Presentation on Jan. 7, 2013**

#### **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 made the “The Big Picture: Water Quality, Regulations & NPDES” presentation available to Lake County MS4s upon request. According to records, between March 1, 2012 and February 28, 2013, no MS4s requested the presentation.**

### **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 10. According to records, there were 9 SMC meetings, 7 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 10:**

- North Branch Chicago River Planning Committee – 4
- Skokie River Consortium – 1
- Bull Creek/Bull’s Brook Watershed Council – 4
- Indian Creek Watershed Committee – 1
- Buffalo Creek Clean Water Partnership – 4
- Flint Creek Watershed Partnership – 5
- Tower Lake Drain Watershed Partnership – 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 10.  
Prepare annual report on Qualifying Local Program activities at end of Year 10.*

**SMC tracked the number of Municipal Advisory Committee (MAC) meetings conducted during Year 10. 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 10 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 11 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 co-sponsored an Illicit Discharge Detection and Elimination Training Workshop on March 20, 2012. According to records, 69 people attended the training workshop.**

**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.**

**Lake County approved and adopted 94 amendments to the countywide WDO on July 10, 2012. Seven of those amendments modified the construction site runoff control program, enhancing the Designated Erosion Control Inspector (DECI) program and updating the DECI inspection requirements to match those of the latest version of IEPA's General NPDES Permit No. ILR10. Training sessions on the WDO amendments, including those that modified the construction site runoff control program, were held on September 5, 14, 25 & 26, 2012.**

#### **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 10, there were 92 EOs in Lake County.**

**SMC completed a cycle of the community re-certification process, which included a performance review of all 53 certified and non-certified communities, during the 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, 2012 and February 28, 2013, 0 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, 2012 and February 28, 2013, 573 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. Lake County approved and adopted 94 amendments to the countywide WDO on July 10, 2012. Eleven of those amendments modified the post-construction runoff control program, by creating a “credits and incentives” approach to the runoff volume reduction (RVR) requirements of the latest version of IEPA’s General NPDES Permit No. ILR40. Training sessions on the WDO amendments, including those that modified the post-construction runoff control program, were held on September 5, 14, 25 & 26, 2012.**

#### **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. 13, 2012.  
At the annual WMB meeting, 15 flood reduction and water quality improvement projects, including stormwater retrofit projects, were selected to receive just over \$141,000 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 continues to make available the Excal Visual Storm Watch Municipal Stormwater Pollution Prevention software to Lake County MS4s. According to records, between March 1, 2012 and February 28, 2013, 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 10**

The QLP did not collect any monitoring data on behalf of Lake County's MS4s during Year 10. However, SMC has reviewed information presented by the Illinois EPA in the 2012 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 2013**

This brief report is based on information contained in the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List, dated December 20, 2012. 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 2012 Illinois Integrated Water Quality Report and Section 303(d) List.

#### **Streams**

An analysis of data accompanying the Illinois EPA's 2012 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 2012 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 2012 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 2012 Illinois Integrated Water Quality Report and Section 303(d) List shows that 134 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 annually through a cooperative agreement between the City of Chicago and the Illinois EPA. 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 bays and harbors, and 63 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 2012 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: aesthetic quality, 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.

A portion of all 2.62 square miles of bays and harbors of Lake Michigan located in Illinois were assessed for the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List for several different designated uses. 66.7 percent of the square miles of bays and harbors assessed for aesthetic quality (i.e., 1.2 of 1.8 sq. mi.) were rated as Fully Supporting, while the remaining 33.3 percent (i.e., 0.6 of 1.8 sq. mi.) were rated as Not Supporting. 97.6 percent of the square miles of bays and 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 bays and 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 63 shoreline miles of Lake Michigan located in Illinois were assessed for the Illinois EPA's 2012 Illinois Integrated Water Quality Report and Section 303(d) List for several different designated uses. All 63 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.

# IEPA 303(d)-listed Impaired Waters in Lake County 2012

-  Watershed Boundaries
-  2012 303(d) Listed Lakes
-  2012 303(d) Listed Streams
-  Major Roads



**STORMWATER MANAGEMENT COMMISSION**

This map is provided for general locational information only. Map readers should consult the appropriate local government for more detailed information. The locations of all features are approximate. The locations of all features are approximate.

Lake County Stormwater Management Commission  
 601 E. State St., Ste. 200  
 Lake County, IL 60057

Lake County Stormwater Management  
 Lake County Department of Information and Technology, GIS and Mapping Division

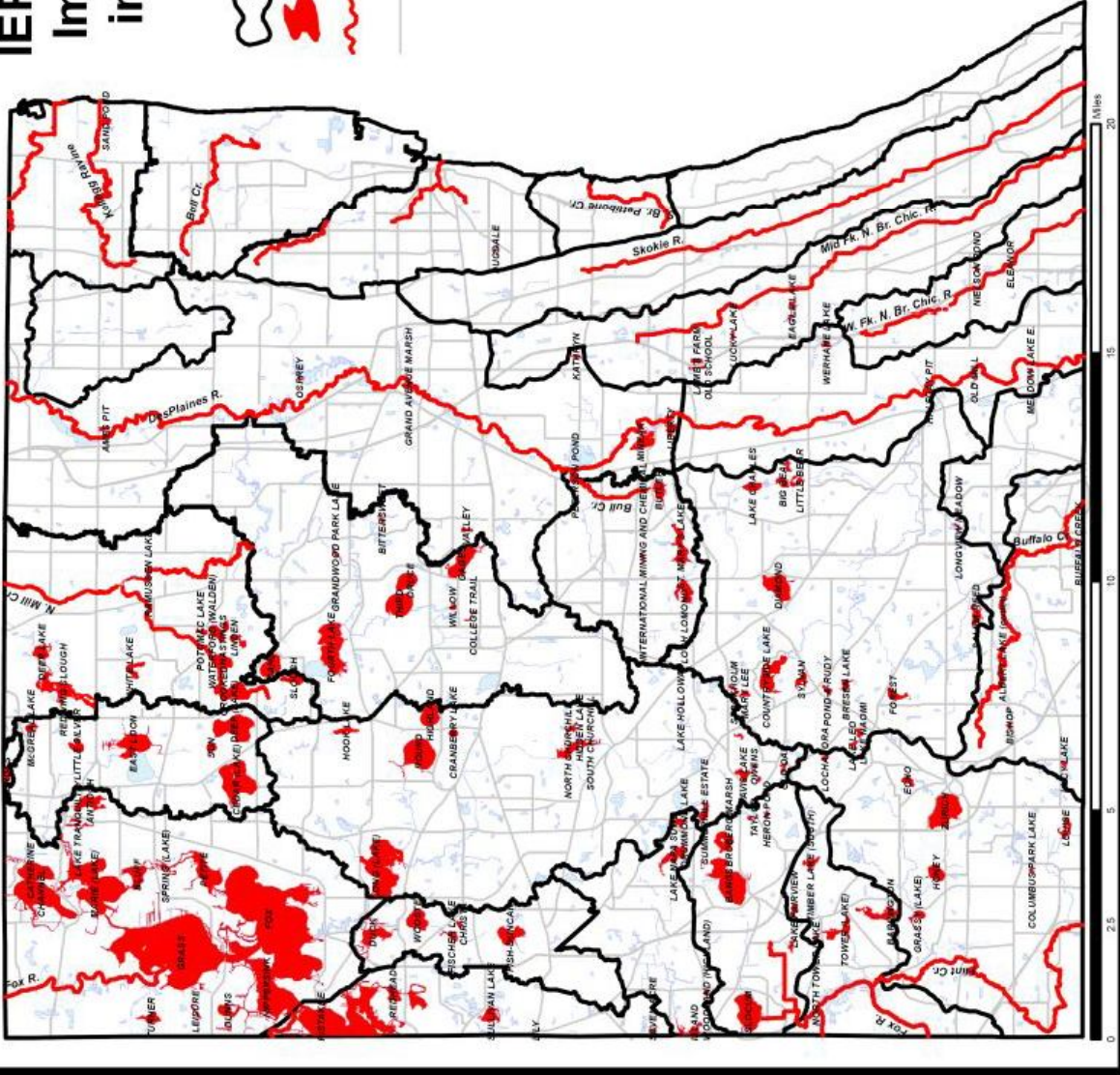


Figure E3.1

## Part E4. QLP Summary of Year 11 Stormwater Activities

The table below indicates the stormwater management activities that the QLP plans to undertake during Year 11. Additional information about the BMPs and measurable goals that the QLP will implement during Year 11 is provided in the section following the table.

**Note:** X indicates BMPs that will be implemented during Year 11

Year 11	
QLP	
<b>A. Public Education and Outreach</b>	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
<b>B. Public Participation/Involvement</b>	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Coordination
	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection and Elimination</b>	
	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
	C.4 Illicit Discharge Tracing Procedures
	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
X	C.10 Other Illicit Discharge Controls

Year 11	
QLP	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

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 support Lake County MS4s by performing activities related to the Public Education and Outreach minimum control measure, as described below.

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

SMC develops and distributes a variety of materials related to stormwater management in Lake County. SMC has produced a number of pamphlets and brochures related to stormwater management and BMPs and prepares a quarterly newsletter, “Mainstream,” as well as an Annual Report, that highlight stormwater management activities conducted in Lake County. SMC also prepares project fact sheets that provide information on 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.

*Measurable Goal(s): Distribute informational materials from “take away” rack at SMC. Upon request, distribute materials directly to municipalities for local distribution.*

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

A public service announcement related to IEPA’s NPDES Stormwater Program will be written and included in SMC’s Quarterly Newsletter, “Mainstream.” SMC will coordinate with the Lake County Department of Transportation (LCDOT) to post watershed identification signage in watersheds where watershed planning activities occur. Upon request, SMC will provide an educational presentation on IEPA’s NPDES Stormwater Program to Lake County MS4s.

*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.*

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

SMC sponsors and co-sponsors technical training and public awareness workshops. 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 best management practices that can be used to protect water quality.

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

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

SMC will contribute to the development and compilation of a stormwater educational material kit for local teachers.

*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.*

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

SMC maintains a website that provides many resources for citizens, developers, engineers, and municipalities. The website includes pages such as "Citizens Assistance," "Watershed Planning," "Projects," "Best Management Practices," "Publications," "Press Releases," and "Links." These pages provide notices of upcoming meetings and ongoing projects, publications, allow for download of many SMC documents, and provide links to other NPDES Stormwater Program and BMP resources. In addition to the resources available through the website, SMC will make an educational presentation on IEPA's NPDES Stormwater Program available to Lake County MS4s.

*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.*

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

SMC will support Lake County MS4s by performing activities related to the Public Participation/Involvement minimum control measure, as described below.

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

SMC coordinates and conducts public meetings as well as committee meetings that include public representation. 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 Municipal Stormwater Program. MAC will continue to meet as needed to assist Lake County MS4s with the implementation of IEPA's NPDES Municipal Stormwater Program.

The Watershed Management Board (WMB) meets annually to make recommendations on BMP project funding. 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.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 stakeholders. Stakeholders may include municipalities, townships, drainage districts, homeowner associations, developers, county agencies, lakes management groups, landowners, and local, state, and federal agencies.

*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.*

### **B.6 Program Coordination**

The countywide approach that has been taken toward the implementation of IEPA's NPDES Municipal Stormwater Program in Lake County places SMC in the role of a Qualifying Local Program (QLP). In this role, SMC proactively formed the Municipal Advisory Committee (MAC) as a way to coordinate the efforts of Lake County MS4s during implementation of their stormwater management programs. SMC will continue to facilitate MAC meetings and will continue to provide general support to Lake County MS4s during implementation of their stormwater management programs. SMC will prepare an annual report on the QLP's 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 during Year 11.  
Prepare annual report on Qualifying Local Program activities at end of Year 11.*

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

SMC will support Lake County MS4s by performing activities related to the Illicit Discharge Detection and Elimination minimum control measure, as described below.

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

SMC provided model ordinances for MS4s to consider at the local level. The language included in the model ordinances prohibits all non-stormwater discharges, including illegal

dumping, to the storm sewer system. Additionally, the countywide WDO includes provisions that prohibit illegal discharges to the storm sewer system during construction.

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

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

SMC sponsors and co-sponsors technical training workshops. 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.

*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.*

## **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 enforced by SMC, as well as by certified communities in Lake County, establishes standards for construction site runoff control. SMC will support Lake County MS4s in the implementation of the construction site runoff control minimum control measure by enforcing the WDO and performing other stormwater activities, as described below.

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

The WDO has been adopted as the regulatory mechanism that requires erosion and sediment controls for construction activities in Lake County. The soil erosion and sediment 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.

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 it be SMC or a certified community, and the permit holder, by creating a single point of contact for soil erosion and sediment control issues. Furthermore, the program is intended to improve site conditions, minimize environmental impacts, and educate contractors, developers, and inspectors about proper soil erosion and sediment control BMPs. The DECI program was designed to closely mirror the inspection requirements of IEPA's General NPDES Permit No. ILR10.

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

*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 activity. This section of the WDO specifies 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. The TRM is currently being updated to include guidance on wetland areas, public roadways, and ordinance administration and enforcement.

*Measurable Goal(s): Continue to enforce the countywide WDO.  
Complete TRM update and work toward final approval and publication of the document.*

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

The WDO includes provisions regarding the control of waste and debris at construction sites.

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

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

Within each jurisdiction, one of the primary duties of the enforcement officer is to review all Watershed Development Permit applications and to issue permits for those projects that are in compliance with the provisions of the WDO. SMC provides training for all new enforcement officers and enforcement officers must pass an exam in order to be certified. SMC periodically reviews all certified communities' enforcement records and performance. Ongoing updates to the TRM include the addition of sections that discuss WDO administration and enforcement.

*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.*

## **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 reported problems and citizen complaints. SMC's website provides information on "who to call" for various problems and concerns. An Interagency Coordination Agreement between SMC, the US Army Corps of Engineers, and the National Resources Conservation Service specifies that if any of these agencies receive a report of a soil erosion and sediment control issue, they will contact SMC. SMC will then investigate the report and prescribe corrective actions. This information is provided directly to the property owner. Where applicable, investigations are coordinated with certified communities.

*Measurable Goal(s): Track number of complaints received and processed related to soil erosion and sediment control.*

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

Article VI of the WDO provides both the recommended and minimum requirements for site inspections. The enforcement officers within each certified community must conduct these site inspections; SMC is responsible for conducting site inspections in non-certified communities and on Lake County Division of Transportation (LCDOT) and Lake County Forest Preserve District (LCFPD) projects.

Article VII of the WDO specifies the penalties and legal actions that may be imposed if the WDO is violated. If a construction site is not in compliance with the requirements of the WDO, the enforcement officer may issue a stop work order on all development activity on the subject property or on the 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, and any person convicted thereof may be fined.

*Measurable Goal(s): Track number of site inspections conducted by SMC.*

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

As described above, the Lake County Watershed Development Ordinance (WDO) establishes the minimum stormwater management requirements for development in Lake County. The WDO establishes standards for post-construction runoff control. These standards apply to any new development or redevelopment that results in over 0.5 acres of new impervious area. SMC will support Lake County MS4s in the implementation of the post-construction runoff control minimum control measure by enforcing the WDO and performing other stormwater activities, as described below.

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

The WDO requires all applicants to adopt a stormwater management strategy for controlling post-construction stormwater runoff. The applicant must develop a stormwater management strategy that minimizes increases in stormwater runoff rates and volumes and addresses the water quality treatment requirements of the WDO. The proposed drainage plan must use the runoff reduction hierarchy included in the WDO and must implement BMPs in accordance with the guidance provided in the TRM.

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

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

The WDO requires that a maintenance plan be developed for all stormwater management systems designed to serve major developments (as defined by the WDO). 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, overland flow paths, and compensatory storage areas; and a description of dedicated sources of funding for the required maintenance. The TRM includes a sample maintenance plan. The WDO also requires that all stormwater management systems be located within a deed or plat restriction to ensure perpetuity and access for maintenance.

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

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

Within each jurisdiction, one of the primary duties of the enforcement officer is to review all Watershed Development Permit applications and to issue permits for those projects that are in compliance with the provisions of the WDO. This includes a review of the BMPs that will be used for post-construction runoff control.

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

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

Article VI of the WDO provides both the recommended and minimum requirements for site inspections. The enforcement officers for each certified community must conduct these site inspections. Enforcement officers may inspect developments at any stage in the construction process. For major developments, the enforcement officer shall conduct site inspections, at a minimum, upon completion of installation of sediment and runoff control measures and after final stabilization and landscaping, prior to the removal of sediment controls.

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

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

Article VI of the WDO provides both the recommended and minimum requirements for site inspections. The enforcement officers for each certified community must conduct these site inspections. Enforcement officers may inspect developments at any stage of the construction process, including final stabilization and landscaping. For major developments, the enforcement officer shall conduct site inspections, at a minimum, upon completion of installation of sediment and runoff control measures and after final stabilization and landscaping, prior to the removal of sediment controls.

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

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

Through the Watershed Management Board (WMB), SMC provides partial funding for flood control and 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 project funding. Members of the WMB include chief municipal elected officials, township supervisors, drainage district chairs, 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 improved water quality in Lake County's streams, lakes, and wetlands and have enhanced existing stormwater management facilities.

*Measurable Goal(s): Conduct annual WMB meeting.  
Contribute funding to flood reduction and water quality improvement projects, including stormwater retrofits, through the WMB.*

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

SMC will support Lake County MS4s by performing activities related to the Pollution Prevention/Good Housekeeping minimum control measure.

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

SMC will assist MS4s with their employee training programs by incorporating recommended actions into the SMPP template. Additionally, SMC will serve as a technical advisor and as a clearinghouse of information related to employee training. SMC will sponsor or co-sponsor employee training workshops or events.

*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.*

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

By adopted policy in the Lake County Stormwater Management Plan, SMC's standard operating procedure is to assess the feasibility of implementing water quality functions in all flood control designs. SMC will evaluate all SMC-sponsored projects for multi-objective opportunities.

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



