



# Illinois Environmental Protection Agency

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

## Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

### for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.*

Report Period: From March, 2014 To March, 2015

Permit No. ILR40 0407

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

Name: Village of Oak Brook Mailing Address 1: 1200 Oak Brook Road  
Mailing Address 2: \_\_\_\_\_ County: DuPage  
City: Oak Brook State: IL Zip: 60523 Telephone: 630-368-5270  
Contact Person: Mike Hulihan, P.E. Email Address: mhulihan@oak-brook.org  
(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 Oak Brook

#### THE FOLLOWING ITEMS MUST BE ADDRESSED.

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

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

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

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

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

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

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

**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

Owner Signature:

Michael Hulihan  
Printed Name:

5/1/15  
Date:

Village Engineer  
Title:

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

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION #19  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

Illinois Environmental Protection Agency

Annual Facility Inspection Report

NPDES Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4)

April 1, 2014 – March 30, 2015

Village of Oak Brook

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

The Village of Oak Brook is relying on cooperating with DuPage County in a countywide effort for this permit program.

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

N/A



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## Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

### for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.*

Report Period: From March, 2015 To March, 2016

Permit No. ILR40 0407

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

Name: Village of Oak Brook Mailing Address 1: 1200 Oak Brook Road  
Mailing Address 2: \_\_\_\_\_ County: DuPage  
City: Oak Brook State: IL Zip: 60523 Telephone: 630-368-5130  
Contact Person: James Bosma, P.E. Email Address: jbosma@oak-brook.org  
(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 Oak Brook

#### 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"/> |
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| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

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

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

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

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

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

*Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))*

Owner Signature:

James Bosma

Printed Name:

5/26/16

Date:

Village Engineer

Title:

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

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION #19  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency

Annual Facility Inspection Report

NPDES Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4)

April 1, 2015 – March 30, 2016

Village of Oak Brook

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

The Village of Oak Brook is relying on cooperating with DuPage County in a countywide effort for this permit program.

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

N/A



# Illinois Environmental Protection Agency

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## Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

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Report Period: From March, 2016 To March, 2017

Permit No. ILR40 0407

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

Name: Village of Oak Brook Mailing Address 1: 1200 Oak Brook Road  
Mailing Address 2: \_\_\_\_\_ County: DuPage  
City: Oak Brook State: IL Zip: 60523 Telephone: \_\_\_\_\_  
Contact Person: Doug Patchin Email Address: dpatchin@oak-brook.org  
(Person responsible for Annual Report)

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

DuPage County

#### THE FOLLOWING ITEMS MUST BE ADDRESSED.

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

- |  |                          |   |                          |
|--|--------------------------|---|--------------------------|
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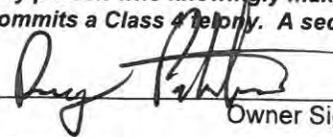
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Owner Signature:

Doug Patchin  
Printed Name:

5/31/2017  
Date:

Director of Public Works  
Title:

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

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION #19  
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## Part A. Changes to Best Management Practices

**Note:** X indicates BMPs performed that were proposed in your NPDES permit  
 ✓ indicates changes to BMPs proposed in your NPDES permit

Year 11	Year 12	Year 13	Year 14	Year 15	
<b>MS4</b>					
<b>A. Public Education and Outreach</b>					
X	X	X	X	X	A.1 Distributed Paper Material
X	X	X	X	X	A.2 Speaking Engagement
X	X	X	X	X	A.3 Public Service Announcement
X	X	X	X	X	A.4 Community Event
X	X	X	X	X	A.5 Classroom Education Material
					A.6 Other Public Education
<b>B. Public Participation/Involvement</b>					
X	X	X	X	X	B.1 Public Panel
					B.2 Educational Volunteer
X	X	X	X	X	B.3 Stakeholder Meeting
X	X	X	X	X	B.4 Public Hearing
					B.5 Volunteer Monitoring
X	X	X	X	X	B.6 Program Coordination
X	X	X	X	X	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection and Elimination</b>					
X	X	X	X	X	C.1 Storm Sewer Map Preparation
X	X	X	X	X	C.2 Regulatory Control Program
X	X	X	X	X	C.3 Detection/Elimination Prioritization Plan
X	X	X	X	X	C.4 Illicit Discharge Tracing Procedures
X	X	X	X	X	C.5 Illicit Source Removal Procedures
X	X	X	X	X	C.6 Program Evaluation and Assessment
X	X	X	X	X	C.7 Visual Dry Weather Screening
					C.8 Pollutant Field Testing
X	X	X	X	X	C.9 Public Notification
					C.10 Other Illicit Discharge Controls

Year 11	Year 12	Year 13	Year 14	Year 15	
<b>MS4</b>					
<b>D. Construction Site Runoff Control</b>					
X	X	X	X	X	D.1 Regulatory Control Program
X	X	X	X	X	D.2 Erosion and Sediment Control BMPs
					D.3 Other Waste Control Program
X	X	X	X	X	D.4 Site Plan Review Procedures
X	X	X	X	X	D.5 Public Information Handling Procedures
X	X	X	X	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	X	X	X	X	E.2 Regulatory Control Program
		X	X		E.3 Long Term O&M Procedures
X	X	X	X	X	E.4 Pre-Const Review of BMP Designs
X	X	X	X	X	E.5 Site Inspections During Construction
X	X	X	X	X	E.6 Post-Construction Inspections
					E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>					
X	X	X	X	X	F.1 Employee Training Program
X	X	X	X	X	F.2 Inspection and Maintenance Program
X	X	X	X	X	F.3 Municipal Operations Storm Water Control
X	X	X	X	X	F.4 Municipal Operations Waste Disposal
X	X	X	X	X	F.5 Flood Management/Assess Guidelines
					F.6 Other Municipal Operations Controls

## **Part B. Status of Compliance with Permit Conditions**

*(Provide 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 maximum extent practicable [MEP], and your identified measurable goals for each of the minimum control measures.)*

The status of BMPs and measurable goals performed in Year 14 are described below.

### **1) PUBLIC EDUCATION AND OUTREACH**

The Village performs a variety of activities that meet the requirements of the Public Education and Outreach minimum control measure. These activities include BMP's A.1 and the remaining are addressed by DuPage County as part of the Qualifying Local Program. A brief description and status is provided below.

#### **BMP No. A.1 – Distibuted Paper Material**

**Brief Description of BMP:** The Village publishes a newsletter and also includes DuPage County publications at the Community Development desk. A sample newsletter article is attached.

### **2) PUBLIC PARTICIPATION AND INVOLVEMENT**

The Village performs a variety of activities that meet the requirements of the Public Participation and Involvement minimum control measure. These activities include BMP's B.3 and B.4 and the remaining are addressed by DuPage County as part of the Qualifying Local Program. A brief description and status is provided below.

#### **BMP No. B.3 – Stakeholder Meeting**

**Brief Description of BMP:** The Village participates and coordinates with the DuPage River Salt Creek Workgroup to identify best management practices that are most appropriate and cost effective for the region to be used by municipalities.

The meeting schedule is attached.

#### **BMP No. B.4 – Public Hearing**

**Brief Description of BMP:** The Village is coordinating the implementation of a Public Hearing for the future years. Public input is currently solicited at all Village Board meetings, but a specific agenda item will be developed in the next year.

### **3) ILLICIT DISCHARGE DETECTION AND ELIMINATION**

The Village performs a variety of activities that meet the requirements of the Illicit Discharge

Detection and Elimination minimum control measure as outlined in the Villages' IDDE Manual and Village Code Title 15. These activities include BMP's C.1, C.2, C.3, C.4, C.5, C.6, C.7 and C.9. The County also completes outfall screening and mapping as outlined in the QLP section of this report. A brief description and status is provided below.

**BMP No. C.1 – Storm Sewer Map Preparation**

**Brief Description of BMP:** The Village maintains an updated storm sewer system map. The map shows the location all of the outfalls within the Village and identifies the name of all waters that receive discharges from those outfalls. The map is currently up-to-date. The Village is working to develop an extensive, GIS based storm sewer atlas map and inventory of the storm sewer system outfalls. The Village will continue the work to update the system and inventory as needed based on development and other stormwater improvements.

**BMP No. C.2 – Regulatory Control Program**

**Brief Description of BMP:** The Village has developed and adopted their own Illicit Discharge and Detection Ordinance (IDDO) as Title 15 of the Village Code. The IDDO prohibits non-stormwater discharges to the storm sewer system under Village jurisdiction. The Village will continue to enforce the ordinance to prevent or eliminate non-stormwater discharges from the municipal separate storm sewer system.

**BMP No. C.3 – Detection/Elimination Prioritization Plan**

**Brief Description of BMP:** The Village is in the process of evaluating the outfall mapping and landuse data to develop a prioritization plan.

**BMP No. C.4 – Illicit Discharge Tracing Procedures**

**Brief Description of BMP:** The Village has existing policies and procedures in place to trace and eliminate illicit discharges to the municipal separate storm sewer system identified by resident reporting, visual dry weather screening, and public works maintenance activities. These procedures include the utilization of the storm sewer map, existing design plans and other available data to locate the source of potential pollutants. The Village will continue these tracing activities as needed to reduce or eliminate non-stormwater discharges to the MS4.

**BMP No. C.5 – Illicit Source Removal Procedures**

**Brief Description of BMP:** The Village's Illicit Discharge Ordinance allows for the removal of illicit sources from the stormwater conveyance system.

**BMP No. C.6 – Program Evaluation and Assessment**

**Brief Description of BMP:** The Village completes a yearly audit of the IDDE program to assess the effectiveness of the program.

### **BMP No. C.7 – Visual Dry Weather Screening**

**Brief Description of BMP:** The Village recently completed a full assessment of the outfalls and detention this past year. The summary and maps are attached to this report. The full inspections are included in the IDDE manual.

### **BMP No. C.9 – Public Notification**

**Brief Description of BMP:** The Village has a location on the Village website for residents to provide input on illicit discharges that they may witness.

## **4) CONSTRUCTION SITE RUNOFF CONTROL**

The Village enforces the DuPage County (County) Stormwater Management Ordinance (SMO) and as a full waiver community. The Village and DuPage County both have ordinances and activities in place that meet the requirements of the Construction Site Runoff Control minimum control measure. These activities include BMP's D.1, D.2, D.4, D.5, and D.6. A brief description and status is provided below.

### **BMP No. D.1 – Regulatory Control Program**

**Brief Description of BMP:** The Village and County have ordinances in place to require the review, inspection and enforcement of construction site runoff controls. The Village will continue with these policies/procedures and update as needed based on the impending MS4 permit.

### **BMP No. D.2 – Erosion and Sediment Control BMPs**

**Brief Description of BMP:** The Village and County have ordinances in place to require the review, inspection and enforcement of soil erosion and sediment control best management practices. The Village will continue these procedures to reduce or prevent the discharge of soil and other potential pollutants from construction sites and amend as needed based on the impending permit.

### **BMP No. D.4 – Site Plan Review Procedures**

**Brief Description of BMP:** The Village has procedures that require the review of site plan for proposed developments for compliance. The Village will continue the review procedures for developments to verify compliance with applicable NDPEs regulations.

### **BMP No. D.5 – Public Information Handling Procedures**

**Brief Description of BMP:** The Village has procedures in place to receive, log and address publicly reported issues. The Village will continue these procedures and respond and/or investigate as needed.

### **BMP No. D.6 – Site Inspection/Enforcement Procedures**

**Brief Description of BMP:** The Village and County regulatory control programs all for the inspection and enforcement for construction site runoff control. The Village will continue the inspection and enforcement program to prevent the discharge of pollutants from construction sites.

## **5) POST-CONSTRUCTION RUNOFF CONTROL**

The Village and DuPage County both have ordinances and activities in place that meet the requirements of the Post-Construction Runoff Control minimum control measure. These activities include BMP's E.2, E.3, E.4, and E.5. A brief description and status is provided below.

### **BMP No. E.2 – Regulatory Control Program**

**Brief Description of BMP:** The Village and County have ordinances in place that require the review, inspection and enforcement of post-construction runoff control measures. The Village will continue to enforce the ordinances and verify compliance of all developments following construction to reduce or prevent the discharge of pollutants to the MS4.

### **BMP No. E.3 – Long Term O&M Procedures**

**Brief Description of BMP:** The Village has procedures for assisting and evaluating long term maintenance of stormwater best management practices. The Village will continue to assist developers, residents and other target audiences by providing sample maintenance plans and conducting inspections as needed.

### **BMP No. E.4 – Pre-Construction Review of BMP Designs**

**Brief Description of BMP:** The Village's existing practices include the pre-construction review of BMP designs. These procedures include pre-application meetings for large scale developments. The Village will continue the review procedures and modify as necessary to maintain compliance.

### **BMP No. E.5 – Site Inspections During Construction**

**Brief Description of BMP:** The Village performs site inspections during and after construction at new development and redevelopment projects to verify compliance with the runoff control requirements. The Village will continue these procedures aimed at preventing the discharge of pollutants to the MS4.

### **BMP No. E.6 – Post-Construction Inspections**

**Brief Description of BMP:** The Village follows the DuPage County Ordinance with respect to post construction inspections.

## 6) POLLUTION PREVENTION AND GOOD HOUSEKEEPING

The Village performs a number of activities that meet the requirements of the Pollution Control and Good Housekeeping minimum control measure. These activities include BMP's F.1, F.2, F.3, F.4, F.5 and F.6. DuPage County is also completing BMPs that are outlined in the QLP Section. A brief description and status is provided below.

### **BMP No. F.1 – Employee Training Program**

**Brief Description of BMP:** The Village conducts annual stormwater pollution prevention training for Village employees to reduce or eliminate the discharge of pollutants from Village owned facilities to the storm sewer system. The Village staff has attended the DuPage River Salt Creek Workgroup salting seminars. The attendance list from a recent training seminar is attached to this report.

### **BMP No. F.2 - Inspection and Maintenance Program**

**Brief Description of BMP:** The Village contracts out many maintenance programs such as street sweeping and cleaning of the storm sewer system. The results are attached to this report.

### **BMP No. F.3 – Municipal Operations Storm Water Control**

**Brief Description of BMP:** The Village has procedures and policies to prevent the discharge of pollutants to the MS4 from municipal operations. These policies include dewatering procedures, pumping activities, spill control and waste disposal. The Village has reviewed the Stormwater Pollution Prevention Plan and will continue these operations and re-evaluate and/or modify as needed to prevent the discharge of pollutants to the MS4.

### **BMP No. F.4 – Municipal Operations Waste Disposal**

**Brief Description of BMP:** The Village has procedures and policies to dispose of waste that is primarily handled by a contractor.

### **BMP No. F.5 – Flood Management/Assess Guidelines**

**Brief Description of BMP:** The Village follows the DuPage County Ordinance with respect to projects in special flood hazard areas and also has completed projects to reduce flood risk including recent studies of Luthin Pond.

Oak Brook NPDES Year 14 Tracking

Storm sewer cleaning/jetting – 722'  
Inlets cleaned – 164  
Leak collection – 5,028 cubic yards  
Salt usage – 714 tons



EXIT



# CERTIFICATE OF ATTENDANCE

4 Professional Development Hours Presented To:

Lee Hammer

For successful completion in attending:

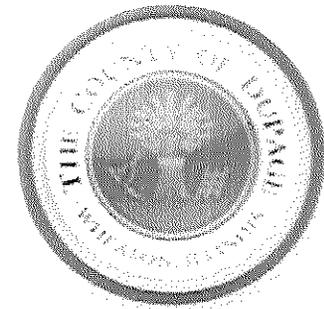
**Green Infrastructure Design & Maintenance  
for MS4 Communities**

November 30, 2016

PRESENTED BY:  
DUPAGE COUNTY STORMWATER MANAGEMENT  
ANTHONY J. CHARLTON, PE - DIRECTOR

  
Signature

11-30-16  
Date



# CERTIFICATE OF ATTENDANCE

4 Professional Development Hours Presented To:

*Rick Valent*

For successful completion in attending:

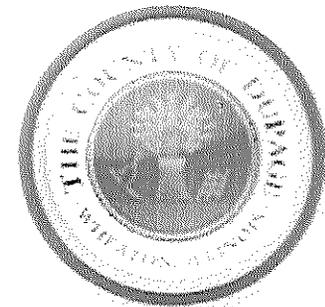
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November 30, 2016

PRESENTED BY:  
DUPAGE COUNTY STORMWATER MANAGEMENT  
ANTHONY J. CHARLTON, PE - DIRECTOR

*Anthony J. Charlton*  
Signature

*11-30-16*  
Date



# OAK BROOK

Quarterly Newsletter | Volume 80 - Spring 2017

*news*



- Use the appropriate type power cords to carry the electrical load. Overload cords can overheat and cause fires.
- Never run cords under rugs or carpets where heat might build up or damage to a cord can go unnoticed.
- Never connect generators to another power source such as power lines. The reverse flow or "backfeed" can electrocute an unsuspecting person.

## Inside the Home:

- Check your smoke and carbon monoxide detectors
- Check your fire extinguishers.
- Check for overloaded or damaged extension cords.
- Prepare for storm related outages (make sure your flashlights and other supplies, such as bottled water, are stocked and available).
- Practice exit drills with your family so everyone knows what to do in case of an emergency.
- Properly store household chemicals and never mix cleaning agents.

## Around the Yard:

- Make sure your address numbers are up and visible from the street.
- Get your grill cleaned and serviced. Check all propane tanks and lines for leaks and damage.
- Keep 100' of garden hose with an attached nozzle connected and ready for use.

## In the Garage or Shed:

- Clean up and properly store paints, pool and yard chemicals.
- Check fuels containers for leaks and make sure they are properly stored.
- Have all power equipment cleaned, serviced and readied for use.

Barry Liss  
Fire Chief  
(630) 368-5200  
bliss@oak-brook.org



## ELECTION INFORMATION



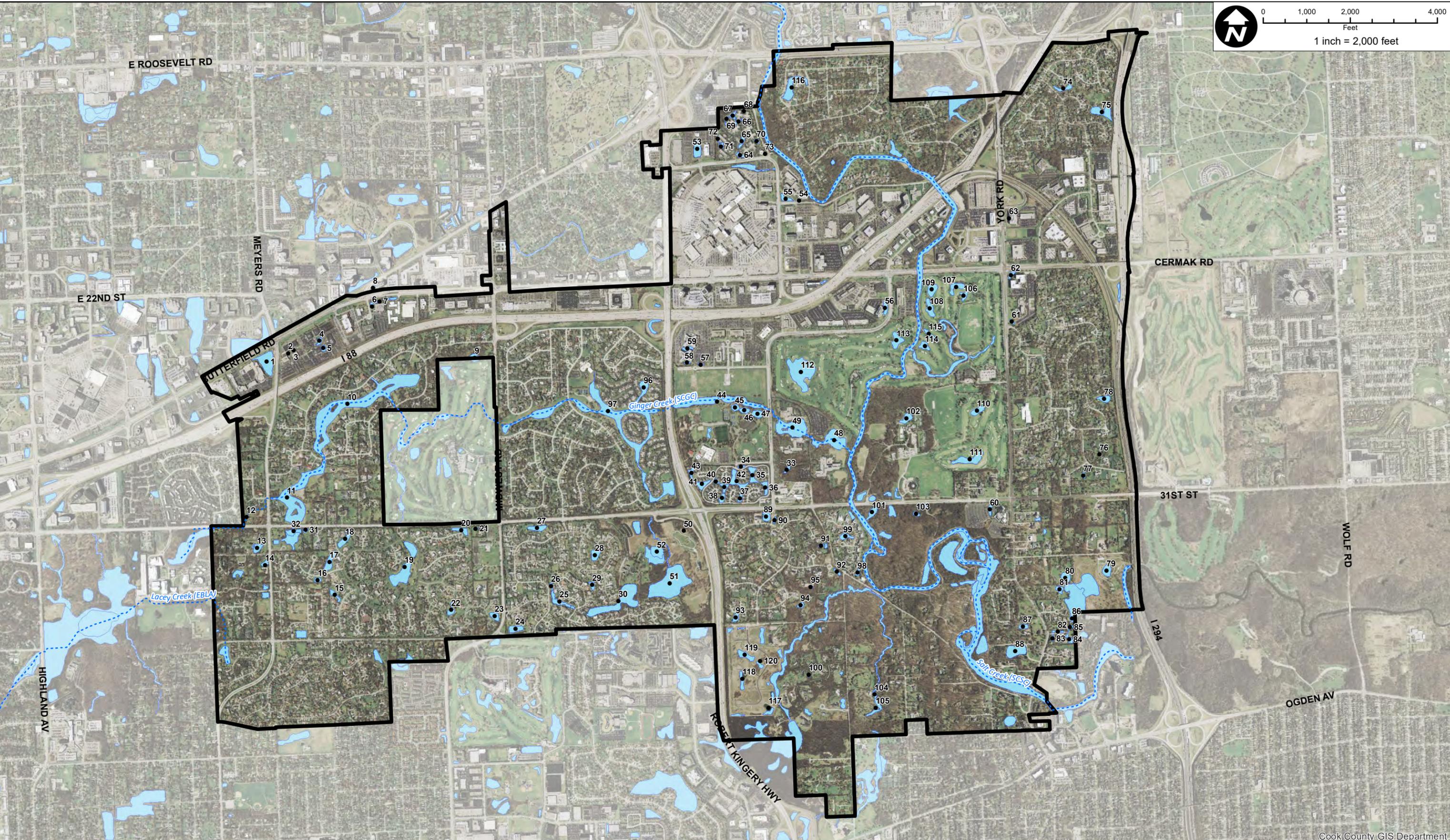
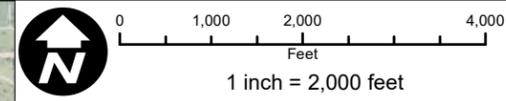
There will be a Consolidated Election on April 4, 2017, which will include Municipal Elections.

**The Village of Oak Brook will be electing:  
TRUSTEES – Three (3) to be elected for a Four (4) Year Term**

The following candidates are seeking this office: John Baar, Philip Cuevas, and Moin Saiyed. If you have recently moved, be sure to Register to Vote. Voter registration occurs from 8:00 a.m. to 4:30 p.m. Monday through Friday at the Butler Government Center. The last day to register to vote or to transfer registration for the April 4, 2017 election here at the Village Hall is **March 7, 2017**. Residents may then register at DuPage County or Cook County Election Offices or at a location designated by the elections authority for this purpose.

Early Voting began on Thursday, February 23, 2017 and will go to Monday, April 3, 2017. Early Voting sites and information is posted on the Village of Oak Brook website [www.oak-brook.org](http://www.oak-brook.org) or you may go the DuPage County Election Commission site [www.dupageelections.com](http://www.dupageelections.com) to confirm the location where you should vote.

Vote by mail applications started on Wednesday, January 4, 2017 for any registered voter presently within the confines of the United State, to make application by mail or in person to the election authority for an official ballot. Mailing and delivery of absentee ballots began on Thursday, February 23, 2017.



Cook County GIS Department

**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:  
**VILLAGE OF OAK BROOK**

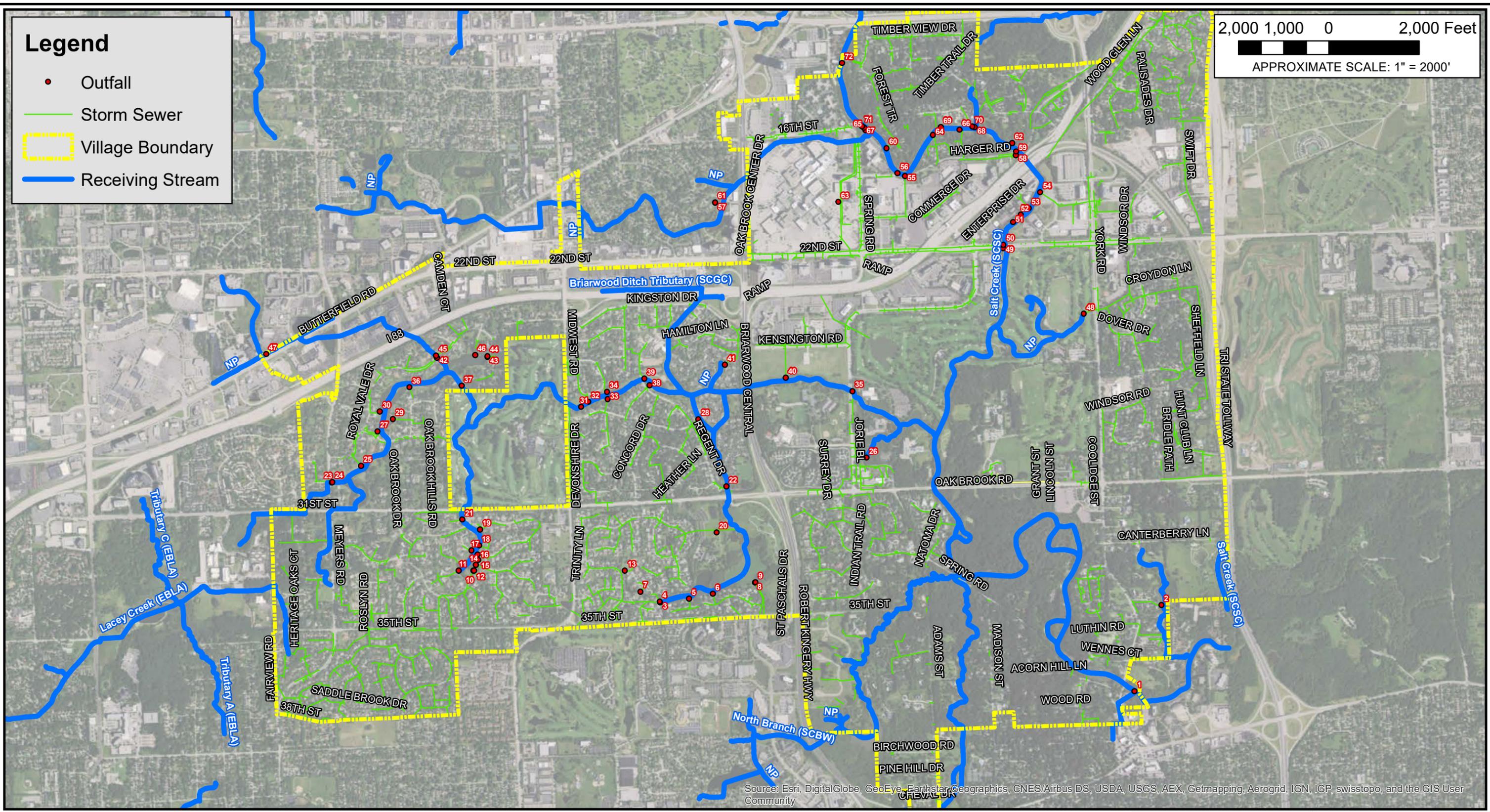
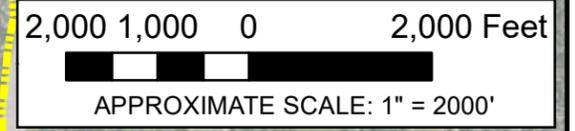
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:	PLT DATE
				ArcGIS 10	5/11/2017
FILE NAME			Detention Pond Inventory		
PATH			N:\OAKBROOK\160465\GIS\Exhibits\Detention Pond Inventory.mxd		

TITLE:  
**DETENTION POND INVENTORY**

PROJ. NO.	160465.00001
DATE:	5/9/2017
SHEET	0 OF 0
DRAWING NO.	EXH

# Legend

- Outfall
- Storm Sewer
- Village Boundary
- Receiving Stream



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

	Christopher B. Burke Engineering, Ltd. 9575 West Higgins Road, Suite 600 Rosemont, IL 60018 (847) 823-0500 / FAX (847) 823-0520	<b>CLIENT</b> VILLAGE OF OAK BROOK	<b>PROJECT NO.</b> 160465	
		<b>TITLE</b> VILLAGE OF OAK BROOK OUTFALL AND RECEIVING WATERS MAP		<b>DATE</b> 09/26/2016

## **Part C. Information and Data Collection Results**

*(Provide information and water quality sampling/monitoring data related to illicit discharge detection and elimination collected during the reporting period.)*

During the March 2016 to March 2017 reporting period, the Village joined the DuPage River Salt Creek Watershed Workgroup. The Workgroup completes stream sampling and watershed planning in response to the TMDL reports and impairments developed by the IEPA. Results of this work can be found on the Workgroup website.

## Part D. Summary of Year 14 Stormwater Activities

*(Present a summary of the storm water activities you plan to undertake during the next reporting cycle, including an implementation schedule in the sections following the table.)*

The table shown below summarizes the BMPs committed to for Year 15. Specific BMPs and measurable goals for Year 15 program development activities are presented in the sections following the table.

**Note: X indicates BMPs committed to for Year 15.**

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

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

## 1. Public Education and Outreach

The Village is committing to conduct Public Education and Outreach as part of its permit. A significant portion of this will include the QLP from DuPage County. The Village commits to implementation of BMPs related to A.1 as described below.

### **BMP No. A.1**

#### **Brief Description of BMP:**

The Village distributes a variety of paper materials from a number of sources informing the public about stormwater or water quality and why they are important.

#### **Measurable Goal(s), including frequencies:**

The materials chosen will be targeted toward residents, businesses and other potential pollutant sources to create better awareness and knowledge of the issue.

**Milestones:**           **Year 15:** The Village will continue to distribute materials at the front desk of the Development Department.

## 2. Public Participation/Involvement

The Village will perform activities and services related to the Public Participation/Involvement minimum control measure. A significant portion of this will include the QLP from DuPage County. BMPs will be implemented under BMP numbers B.3 and B.4 as described below.

### **BMP No. B.3**

#### **Brief Description of BMP:**

Village staff regularly participates in stakeholder meetings such as the DuPage River Salt Creek Workgroup.

#### **Measurable Goal(s), including frequencies:**

Village staff will continue to be a member and attend the DuPage River Salt Creek Workgroup meetings.

**Milestones:**           **Year 15:** The Village will participate in all applicable Workgroup meetings.

### **BMP No. B.4**

#### **Brief Description of BMP:**

The Village will hold a public meeting on stormwater

#### **Measurable Goal(s), including frequencies:**

Public meetings once a year will allow the Village to gather input on stormwater issues from the community as well as educate the community and public officials on stormwater related issues.

**Milestones:**           **Year 15:** The Village will schedule and hold a public hearing on stormwater issues.

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

The Village commits to performing some activities related to the Illicit Discharge Detection and Elimination minimum control. BMPs will be implemented under BMP numbers C.1, C.2, C.3, C.4, C.5, C.6, C.7 and C.9 as described below.

#### **BMP No. C.1**

##### **Brief Description of BMP:**

The Village has a storm sewer mapping system of the receiving streams and outfalls.

##### **Measurable Goal(s), including frequencies:**

The Village will review the map and update as needed.

**Milestones:**           **Year 15:** The Village will continue to update the map as necessary.

#### **BMP No. C.2**

##### **Brief Description of BMP:**

The Village has adopted an Illicit Discharge and Detection Ordinance.

##### **Measurable Goal(s), including frequencies:**

The Village will continue to enforce the existing ordinance that prevent non-stormwater discharges to reduce or eliminate pollutants from entering the municipal separate storm sewer system.

**Milestones:**           **Year 15:** The Village will continue to enforce the existing ordinance.

#### **BMP No. C.3**

##### **Brief Description of BMP:**

The Village utilizes various tools to identify and report potential illicit discharges. The Village also investigates reports of illicit discharges.

##### **Measurable Goal(s), including frequencies:**

The Village will continue to identify and investigate potential illicit discharges to reduce or eliminate the impact on local stormwater systems and receiving streams.

**Milestones:**           **Year 15:** The Village will continue to identify and investigate potential illicit discharges.

**BMP No. C.4/C.5**

**Brief Description of BMP:**

Develop procedures to trace and remove detected illicit discharges. Annually trace and remove all illicit discharges identified by resident reporting, visual dry weather screening, and public works maintenance activities.

**Measurable Goal(s), including frequencies:**

The Village will track, investigate and eliminate illicit discharges as reported, observed or identified

**Milestones:**           **Year 15:** The Village will trace and eliminate illicit discharges as needed.

**BMP No. C.6**

**Brief Description of BMP:**

The Village will evaluate the illicit discharge and detection program for effectiveness and possible improvements.

**Measurable Goal(s), including frequencies:**

Regular evaluation of the program can provide valuable input and opportunity for improvement.

**Milestones:**           **Year 15:** The Village will evaluate the program at least once a year.

**BMP No. C.7**

**Brief Description of BMP:**

Annual screening of all outfalls to identify any illicit discharges. Annual screening with a priority placed on storm sewer structures located in industrial areas.

**Measurable Goal(s), including frequencies:**

The Village will work to utilize inspection forms while performing the dry weather screening inspections.

**Milestones:**           **Year 15:** The Village will evaluate its dry weather inspection form and procedures.

**BMP No. C.9**

**Brief Description of BMP:**

The Village has a website link available for reporting drainage problems and illicit discharges.

**Measurable Goal(s), including frequencies:**

The Village regularly checks the input received from residents regarding illicit discharges and responds according to the IDDE Manual.

**Milestones:**           **Year 15:** The Village will continue receiving input.

**4. Construction Site Runoff Control**

The Village will perform activities and services related to the Construction Site Runoff Control minimum control measure. BMPs will be implemented under BMP numbers D.1, D.2, D.4, D.5 and D.6 as described below.

**BMP No. D.1**

**Brief Description of BMP:**

The Village and County have ordinances in place to allow for review, inspection, and enforcement of construction site runoff controls.

**Measurable Goal(s), including frequencies:**

The Village will continue to review, inspect and enforce the ordinance regulations to prevent or reduce the discharge of sediment or other pollutants from construction sites.

**Milestones:**           **Year 15:** The Village will enforce the regulatory procedures.

**BMP No. D.2**

**Brief Description of BMP:**

The Village and County have ordinances in place to allow for review, inspection, and enforcement of construction site runoff control BMP's.

**Measurable Goal(s), including frequencies:**

The Village will continue to review, inspect and enforce the ordinance regulations to prevent or reduce the discharge of sediment or other pollutants from construction sites as it relates to BMP's.

**Milestones:**           **Year 15:** The Village will enforce the regulatory procedures.

**BMP No. D.4**

**Brief Description of BMP:**

The Village has procedures that proposed development plans to be reviewed for compliance.

**Measurable Goal(s), including frequencies:**

The Village will continue to require all developments to be reviewed for compliance with NPDES regulations and other Village ordinance standards.

**Milestones:**           **Year 15:** The Village will enforce the review procedures.

**BMP No. D.5**

**Brief Description of BMP:**

The Village has produces in place for receiving, logging and addressing publicly reported issues.

**Measurable Goal(s), including frequencies:**

The Village will continue to respond to publicly reported issues in a timely manner and investigate as needed to address them.

**Milestones:**           **Year 15:** The Village will respond accordingly.

**BMP No. D.6**

**Brief Description of BMP:**

The Village and County regulatory programs allow for inspection and enforcement procedures for construction site runoff control.

**Measurable Goal(s), including frequencies:**

The Village will continue to inspect all new developments for compliance with the Village and County ordinances.

**Milestones:**           **Year 15:** The Village will enforce the ordinance.

**5. Post-Construction Runoff Control**

The Village will perform activities and services related to the Post-Construction Site Runoff Control minimum control measure. BMPs will be implemented under BMP number E.2, E.3, E.4, E.5 and E.6 as described below.

**BMP No. E.2**

**Brief Description of BMP:**

The Village and County have ordinances in place that allow for the review, inspection and enforcement of post-construction runoff control measures.

**Measurable Goal(s), including frequencies:**

The Village will continue to enforce the ordinances for compliance with post construction runoff controls to prevent or reduce the discharge of contaminants from construction sites.

**Milestones:**           **Year 15:** The Village will enforce the ordinances.

**BMP No. E.3**

**Brief Description of BMP:**

The Village and County have procedures in place for assisting and evaluating the long term maintenance of stormwater best management practices.

**Measurable Goal(s), including frequencies:**

The Village will continue long term maintenance programs to assist developers and residents.

**Milestones:**           **Year 15:** The Village will continue the long term maintenance program as indicated in the SMO.

**BMP No. E.4**

**Brief Description of BMP:**

The Village and County have procedures in place for the pre-construction review of BMP designs. These procedures include pre-application meetings for large scale developments.

**Measurable Goal(s), including frequencies:**

The Village will continue the review procedures and modify or evaluate as needed to maintain compliance.

**Milestones:**           **Year 15:** The Village will continue the BMP review procedures.

**BMP No. E.5**

**Brief Description of BMP:**

The Village has procedures in place to perform site inspections during construction by qualified personnel.

**Measurable Goal(s), including frequencies:**

The Village will continue with the site inspections procedures to verify compliance of BMP's in reducing and/or preventing the discharge of contaminants to local waterways and storm sewers.

**Milestones:**           **Year 15:** The Village will continue with the site inspection procedures.

**BMP No. E.6**

**Brief Description of BMP:**

The Village has procedures in place to perform site inspections after construction by qualified personnel.

**Measurable Goal(s), including frequencies:**

The Village will continue with the post-construction site inspections procedures to verify compliance of BMP's in reducing and/or preventing the discharge of contaminants to local waterways and storm sewers.

**Milestones:**           **Year 15:** The Village will continue with the site inspection procedures.

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

This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. This program must include a training program for municipal employees. The Village will perform BMPs under BMP numbers F.1, F.2, F.3, F.4, F.5 and F.6 as described below.

### **BMP No. F.1**

#### **Brief Description of BMP:**

Annually conduct formal stormwater pollution prevention training for Village employees on topics such as: dry weather observation of outfalls using the outfall reconnaissance inventory, illicit discharge tracing and source removal procedures, maintenance of green infrastructure (dry wells), and implementing the Stormwater Pollution Prevention Plan for the Public Works Facility. Document the date, topic, and attendees for employee stormwater pollution prevention training.

#### **Measurable Goal(s), including frequencies:**

The Village will continue with the training program aimed at educating Village staff on ways to reduce or prevent stormwater pollution from Village activities.

**Milestones:**           **Year 15:** The Village will continue with the training program.

### **BMP No. F.2**

#### **Brief Description of BMP:**

Annually clean Village storm sewers and storm sewer structures. Sweep Village streets four times per year and maintain ditches as needed or as requested by residents. Annually document the weight of debris removed from the Village storm sewer system.

#### **Measurable Goal(s), including frequencies:**

The Village will continue the inspection and maintenance program of stormwater facilities to reduce the amount of debris and pollutants that enter the stormwater system.

**Milestones:**   **Year 15:** Clean Village storm sewers and storm sewer structures. Sweep Village streets per the contract and maintain ditches as needed. Document the weight of debris removed from the Village storm sewer system.

**BMP No. F.3**

**Brief Description of BMP:**

The Village has procedures in place to reduce or prevent the discharge of contaminants to the stormwater system from municipal operations.

**Measurable Goal(s), including frequencies:**

The Village will continue to be proactive in evaluating municipal activities that could potentially introduce pollutants to the stormwater system and develop methods to reduce or prevent them.

**Milestones:**           **Year 15:** The Village will continue with the municipal control measures and evaluate additional methods as needed.

**BMP No. F.4**

**Brief Description of BMP:**

The Village has procedures that require appropriate disposal of all wastes generated during municipal operations.

**Measurable Goal(s), including frequencies:**

The Village will continue with the disposal program and requirements to reduce or eliminate the release of pollutants from municipal operations.

**Milestones:**           **Year 15:** The Village will continue with the municipal operations disposal program.

**BMP No. F.5**

**Brief Description of BMP:**

The Village, County and State have strict development regulations related to floodplain management and the evaluation of potential development in these areas.

**Measurable Goal(s), including frequencies:**

The Village will continue to enforce the requirements for potential development in special flood hazard areas.

**Milestones:**           **Year 15:** The Village will continue to enforce the flood management requirements.

**BMP No. F.6**

**Brief Description of BMP:**

The Village regularly evaluates their municipal activities for additional ways to reduce or eliminate pollutants from entering the stormwater system including salt reduction, additional de-icing alternatives and other actions.

**Measurable Goal(s), including frequencies:**

The Village will continue to evaluate and develop methods or changes to existing practices that can reduce or eliminate pollutants from entering the stormwater system from municipal activities.

**Milestones:**           **Year 15:** The Village will continue the evaluation and monitoring program.

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

The Village of Oak Brook has adopted and enforces the Dupage County Stormwater Management Ordinance as a full-waiver community. The Village has the authority to enforce the County Ordinance within the Village limits, including the Construction Site and Post-Construction Stormwater Runoff Control requirements. As the Village takes on this responsibility, it will assure that construction sites are meeting the ILR10 permit requirements as well as the County's Ordinance requirements.

The Village takes full advantage of the County's various training and public education and engagement programs as QLP.

### **1. Public Education and Outreach:**

The County has developed a comprehensive program during the previous 10 year NOI permit period that provides public speaking engagements, classroom education material and community events. The Village supports these public education and outreach programs by providing notice to them on the Village's website.

This program relates to BMP numbers A.2, A.3, A.4 and A.5.

### **2. Public Participation/Involvement:**

The County has developed a comprehensive program to address the Public Participation/Involvement requirement developed during the initial 10 years of the NPDES Phase II permit. This includes hosting public panels, volunteer monitoring, program involvement and other public involvement. The Village supports these public education and outreach programs by providing notice to them on the Village's website.

These programs relate to BMP numbers B.1, B.5, B.6 and B.7.

### **3. Illicit Discharge Detection and Elimination:**

The Village has recently developed and adopted comprehensive program to address the Illicit Discharge Detection and Elimination requirements of the NPDES Phase II program. The Village also has an ordinance prohibiting illicit discharges and an Intergovernmental Agreement with DuPage County for inspection and enforcement. The applicable program details are outlined in the previous sections of this report. The Village has its own program and only relies on the County as a QLP to fill in the gaps as necessary.

### **4. Construction Site Runoff Control:**

The Village has adopted and enforces the DuPage County Stormwater Management Ordinance as a certified community. As a full-waiver community the Village has the authority to enforce the County Ordinance within the Village limits, including the Construction Site and Post-Construction Stormwater Runoff Control requirements.

They are not relying on a QLP for this BMP.

**5. Post-Construction Runoff Control:**

The Village has adopted and enforces the DuPage County Stormwater Management Ordinance as a certified community. As a full-waiver community the Village has the authority to enforce the County Ordinance within the Village limits, including the Construction Site and Post-Construction Stormwater Runoff Control requirements.

They are not relying on a QLP for this BMP.

**6. Pollution Prevention/Good Housekeeping:**

The goal of this BMP is to identify current practices that contribute to stormwater pollution and implement programs and procedures for municipal activities that curtail the discharge of pollutants to storm sewer systems. The applicable program details are outlined in the previous sections of this report.

They are not relying on a QLP for this BMP.





# Illinois Environmental Protection Agency

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

## Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

### for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.*

Report Period: From March, 2017 To March, 2018

Permit No. ILR40 0407

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

Name: Village of Oak Brook Mailing Address 1: 1200 Oak Brook Road  
Mailing Address 2: \_\_\_\_\_ County: DuPage  
City: Oak Brook State: IL Zip: 60523 Telephone: \_\_\_\_\_  
Contact Person: Doug Patchin Email Address: dpatchin@oak-brook.org  
(Person responsible for Annual Report)

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

DuPage County

#### THE FOLLOWING ITEMS MUST BE ADDRESSED.

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

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

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

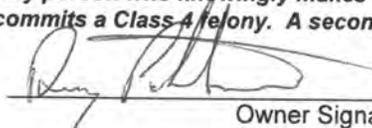
C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

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

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

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

**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

  
Owner Signature:

Doug Patchin  
Printed Name:

5/29/2018  
Date:

Director of Public Works  
Title:

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

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION #19  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

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**Part F. Construction Projects Conducted During Year 15 .....F-1**

## Part A. Changes to Best Management Practices

**Note:** X indicates BMPs performed that were proposed in your NPDES permit  
 ✓ indicates changes to BMPs proposed in your NPDES permit

Year 11	Year 12	Year 13	Year 14	Year 15	
<b>MS4</b>					
<b>A. Public Education and Outreach</b>					
X	X	X	X	X	A.1 Distributed Paper Material
X	X	X	X	X	A.2 Speaking Engagement
X	X	X	X	X	A.3 Public Service Announcement
X	X	X	X	X	A.4 Community Event
X	X	X	X	X	A.5 Classroom Education Material
					A.6 Other Public Education
<b>B. Public Participation/Involvement</b>					
X	X	X	X	X	B.1 Public Panel
					B.2 Educational Volunteer
X	X	X	X	X	B.3 Stakeholder Meeting
X	X	X	X	X	B.4 Public Hearing
					B.5 Volunteer Monitoring
X	X	X	X	X	B.6 Program Coordination
X	X	X	X	X	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection and Elimination</b>					
X	X	X	X	X	C.1 Storm Sewer Map Preparation
X	X	X	X	X	C.2 Regulatory Control Program
X	X	X	X	X	C.3 Detection/Elimination Prioritization Plan
X	X	X	X	X	C.4 Illicit Discharge Tracing Procedures
X	X	X	X	X	C.5 Illicit Source Removal Procedures
X	X	X	X	X	C.6 Program Evaluation and Assessment
X	X	X	X	X	C.7 Visual Dry Weather Screening
					C.8 Pollutant Field Testing
X	X	X	X	X	C.9 Public Notification
					C.10 Other Illicit Discharge Controls

Year 11	Year 12	Year 13	Year 14	Year 15	
<b>MS4</b>					
<b>D. Construction Site Runoff Control</b>					
X	X	X	X	X	D.1 Regulatory Control Program
X	X	X	X	X	D.2 Erosion and Sediment Control BMPs
					D.3 Other Waste Control Program
X	X	X	X	X	D.4 Site Plan Review Procedures
X	X	X	X	X	D.5 Public Information Handling Procedures
X	X	X	X	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	X	X	X	X	E.2 Regulatory Control Program
		X	X		E.3 Long Term O&M Procedures
X	X	X	X	X	E.4 Pre-Const Review of BMP Designs
X	X	X	X	X	E.5 Site Inspections During Construction
X	X	X	X	X	E.6 Post-Construction Inspections
					E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>					
X	X	X	X	X	F.1 Employee Training Program
X	X	X	X	X	F.2 Inspection and Maintenance Program
X	X	X	X	X	F.3 Municipal Operations Storm Water Control
X	X	X	X	X	F.4 Municipal Operations Waste Disposal
X	X	X	X	X	F.5 Flood Management/Assess Guidelines
					F.6 Other Municipal Operations Controls

## **Part B. Status of Compliance with Permit Conditions**

*(Provide 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 maximum extent practicable [MEP], and your identified measurable goals for each of the minimum control measures.)*

The status of BMPs and measurable goals performed in Year 15 are described below.

### **1) PUBLIC EDUCATION AND OUTREACH**

The Village performs a variety of activities that meet the requirements of the Public Education and Outreach minimum control measure. These activities include BMP's A.1 and the remaining are addressed by DuPage County as part of the Qualifying Local Program. A brief description and status is provided below.

#### **BMP No. A.1 – Distibuted Paper Material**

**Brief Description of BMP:** The Village publishes a newsletter and also includes DuPage County publications at the Community Development desk. A sample newsletter article is attached.

### **2) PUBLIC PARTICIPATION AND INVOLVEMENT**

The Village performs a variety of activities that meet the requirements of the Public Participation and Involvement minimum control measure. These activities include BMP's B.3 and B.4 and the remaining are addressed by DuPage County as part of the Qualifying Local Program. A brief description and status is provided below.

#### **BMP No. B.3 – Stakeholder Meeting**

**Brief Description of BMP:** The Village participates and coordinates with the DuPage River Salt Creek Workgroup to identify best management practices that are most appropriate and cost effective for the region to be used by municipalities.

The meeting schedule is attached.

#### **BMP No. B.4 – Public Hearing**

**Brief Description of BMP:** A public presentation on the Village's stormwater program was made at the May Village Board meeting, which is publicly noticed. The presentation is attached. Public input is currently solicited at all Village Board meetings, but a specific agenda item will be developed in the next year.

### **3) ILLICIT DISCHARGE DETECTION AND ELIMINATION**

The Village performs a variety of activities that meet the requirements of the Illicit Discharge Detection and Elimination minimum control measure as outlined in the Villages' IDDE Manual and Village Code Title 15. These activities include BMP's C.1, C.2, C.3, C.4, C.5, C.6, C.7 and C.9. The County also completes outfall screening and mapping as outlined in the QLP section of this report. A brief description and status is provided below.

**BMP No. C.1 – Storm Sewer Map Preparation**

**Brief Description of BMP:** The Village maintains an updated storm sewer system map. The map shows the location all of the outfalls within the Village and identifies the name of all waters that receive discharges from those outfalls. The map is currently up-to-date. The Village has recently completed an extensive, GIS based storm sewer atlas map including an inventory of the approximately 72 storm sewer system outfalls and over 100 detention basins throughout the Village. The Village will continue the work to update the system and inventory as needed based on development and other stormwater improvements. Screen captures of the mapping system are included in the report.

**BMP No. C.2 – Regulatory Control Program**

**Brief Description of BMP:** The Village has developed and adopted their own Illicit Discharge and Detection Ordinance (IDDO) as Title 15 of the Village Code. The IDDO prohibits non-stormwater discharges to the storm sewer system under Village jurisdiction. The Village will continue to enforce the ordinance to prevent or eliminate non-stormwater discharges from the municipal separate storm sewer system.

**BMP No. C.3 – Detection/Elimination Prioritization Plan**

**Brief Description of BMP:** The Village is in the process of evaluating the outfall mapping and landuse data to develop a prioritization plan. All outfalls and ponds have been inspected at least once in the past 2 years, and the Village will continue to evaluate the need for further inspection.

**BMP No. C.4 – Illicit Discharge Tracing Procedures**

**Brief Description of BMP:** The Village has existing policies and procedures in place to trace and eliminate illicit discharges to the municipal separate storm sewer system identified by resident reporting, visual dry weather screening, and public works maintenance activities. These procedures include the utilization of the storm sewer map, existing design plans and other available data to locate the source of potential pollutants. The Village will continue these tracing activities as needed to reduce or eliminate non-stormwater discharges to the MS4.

**BMP No. C.5 – Illicit Source Removal Procedures**

**Brief Description of BMP:** The Village's Illicit Discharge Ordinance allows for the removal of illicit sources from the stormwater conveyance system.

### **BMP No. C.6 – Program Evaluation and Assessment**

**Brief Description of BMP:** The Village completes a yearly audit of the IDDE program to assess the effectiveness of the program.

### **BMP No. C.7 – Visual Dry Weather Screening**

**Brief Description of BMP:** The Village recently completed a full assessment of the outfalls and detention basins this past year. The summary and maps are attached to this report. The full inspections are included in the IDDE manual.

### **BMP No. C.9 – Public Notification**

**Brief Description of BMP:** The Village has a location on the Village website for residents to provide input on illicit discharges that they may witness.

## **4) CONSTRUCTION SITE RUNOFF CONTROL**

The Village enforces the DuPage County (County) Stormwater Management Ordinance (SMO) and as a full waiver community. The Village and DuPage County both have ordinances and activities in place that meet the requirements of the Construction Site Runoff Control minimum control measure. These activities include BMP's D.1, D.2, D.4, D.5, and D.6. A brief description and status is provided below.

### **BMP No. D.1 – Regulatory Control Program**

**Brief Description of BMP:** The Village and County have ordinances in place to require the review, inspection and enforcement of construction site runoff controls. The Village will continue with these policies/procedures and update as needed based on the impending MS4 permit.

### **BMP No. D.2 – Erosion and Sediment Control BMPs**

**Brief Description of BMP:** The Village and County have ordinances in place to require the review, inspection and enforcement of soil erosion and sediment control best management practices. The Village will continue these procedures to reduce or prevent the discharge of soil and other potential pollutants from construction sites and amend as needed based on the impending permit.

### **BMP No. D.4 – Site Plan Review Procedures**

**Brief Description of BMP:** The Village has procedures that require the review of site plan for proposed developments for compliance. The Village will continue the review procedures for developments to verify compliance with applicable NDPEs regulations.

### **BMP No. D.5 – Public Information Handling Procedures**

**Brief Description of BMP:** The Village has procedures in place to receive, log and address publicly reported issues. The Village will continue these procedures and respond and/or investigate as needed.

### **BMP No. D.6 – Site Inspection/Enforcement Procedures**

**Brief Description of BMP:** The Village and County regulatory control programs all for the inspection and enforcement for construction site runoff control. The Village will continue the inspection and enforcement program to prevent the discharge of pollutants from construction sites.

## **5) POST-CONSTRUCTION RUNOFF CONTROL**

The Village and DuPage County both have ordinances and activities in place that meet the requirements of the Post-Construction Runoff Control minimum control measure. These activities include BMP's E.2, E.3, E.4, and E.5. A brief description and status is provided below.

### **BMP No. E.2 – Regulatory Control Program**

**Brief Description of BMP:** The Village and County have ordinances in place that require the review, inspection and enforcement of post-construction runoff control measures. The Village will continue to enforce the ordinances and verify compliance of all developments following construction to reduce or prevent the discharge of pollutants to the MS4.

### **BMP No. E.3 – Long Term O&M Procedures**

**Brief Description of BMP:** The Village has procedures for assisting and evaluating long term maintenance of stormwater best management practices. The Village will continue to assist developers, residents and other target audiences by providing sample maintenance plans and conducting inspections as needed.

### **BMP No. E.4 – Pre-Construction Review of BMP Designs**

**Brief Description of BMP:** The Village's existing practices include the pre-construction review of BMP designs. These procedures include pre-application meetings for large scale developments. The Village will continue the review procedures and modify as necessary to maintain compliance.

### **BMP No. E.5 – Site Inspections During Construction**

**Brief Description of BMP:** The Village performs site inspections during and after construction at new development and redevelopment projects to verify compliance with the runoff control requirements. The Village will continue these procedures aimed at preventing the discharge of pollutants to the MS4.

### **BMP No. E.6 – Post-Construction Inspections**

**Brief Description of BMP:** The Village follows the DuPage County Ordinance with respect to post construction inspections.

## **6) POLLUTION PREVENTION AND GOOD HOUSEKEEPING**

The Village performs a number of activities that meet the requirements of the Pollution Control and Good Housekeeping minimum control measure. These activities include BMP's F.1, F.2, F.3, F.4, F.5 and F.6. DuPage County is also completing BMPs that are outlined in the QLP Section. A brief description and status is provided below.

### **BMP No. F.1 – Employee Training Program**

**Brief Description of BMP:** The Village conducts annual stormwater pollution prevention training for Village employees to reduce or eliminate the discharge of pollutants from Village owned facilities to the storm sewer system. The Village staff has attended the DuPage River Salt Creek Workgroup salting seminars. The attendance list from a recent training seminar is attached to this report.

### **BMP No. F.2 - Inspection and Maintenance Program**

**Brief Description of BMP:** The Village contracts out many maintenance programs such as street sweeping and cleaning of the storm sewer system. The results are attached to this report.

### **BMP No. F.3 – Municipal Operations Storm Water Control**

**Brief Description of BMP:** The Village has procedures and policies to prevent the discharge of pollutants to the MS4 from municipal operations. These policies include dewatering procedures, pumping activities, spill control and waste disposal. The Village has reviewed the Stormwater Pollution Prevention Plan and will continue these operations and re-evaluate and/or modify as needed to prevent the discharge of pollutants to the MS4.

### **BMP No. F.4 – Municipal Operations Waste Disposal**

**Brief Description of BMP:** The Village has procedures and policies to dispose of waste that is primarily handled by a contractor. A new salt storage area has been designed to store salt off-site in a covered facility.

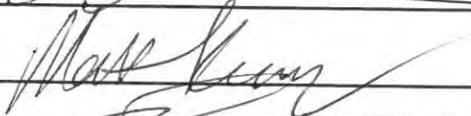
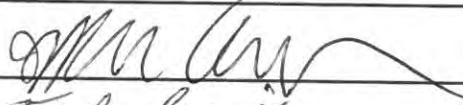
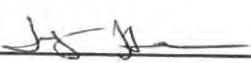
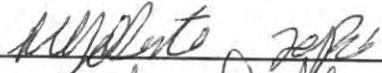
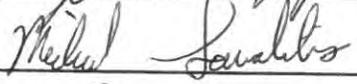
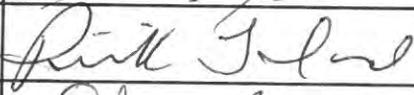
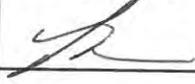
### **BMP No. F.5 – Flood Management/Assess Guidelines**

**Brief Description of BMP:** The Village follows the DuPage County Ordinance with respect to projects in special flood hazard areas and also has completed projects to reduce flood risk including recent studies of Sports Core Drainage Analysis.

## Oak Brook NPDES Year 15 Tracking

- Leak Pickup – 3,783 cu/yds
- Salt Usage – 1,243 tons
- Street Sweeping – 791 miles
- Inlets Cleaned – 62
- Catch Basins Cleaned - 54

**VILLAGE OF OAK BROOK**  
**NPDES MS4 TRAINING**  
**PRESENTED BY CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
**1/19/2018 @ 10:30AM**

PRINT FIRST & LAST NAME	SIGN FIRST & LAST NAME	DEPARTMENT
Alex Kostueck		P.W.
<del>Robert Subrodt</del>	<del></del>	<del>U</del>
Rick HENDERSON		PW
Tyler Pretz		PW
Matt Kennedy		PW
Alex Strochis		PW
Joshua Gramton		PW
Ted Glidden		P/W
JEREMY HANSEN		CIF
Rigoberto Lopez ort.2		Golf course
Michael Sanalitra		PW
BEN SAHALIO		PW
KEN MONTECUBEO		PW
PATRICK TOLEND		P.W.
Shawn Rice		P.W.
Don Kraus		PW
Lee Hamman		P.W.



### Illicit Discharges

- Any discharge to the MS4 that is not composed entirely of stormwater

CERTIFICATE OF ATTENDANCE

4 Professional Development Hours Presented To:

Lee Hammer

For successful completion in attending:  
**Green Infrastructure Seminar  
for MS4 Communities**

November 29, 2017

PRESENTED BY:  
DUPAGE COUNTY STORMWATER MANAGEMENT  
ANTHONY J. CHARLTON, PE - DIRECTOR



*Anthony J. Charlton*

11/29/2017

Signature

---

Lake County Stormwater Management Commission

## Certificate of Completion

*is hereby granted to*

---

*to certify that he/she has completed to satisfaction*

## Designated Erosion Control Inspector Workshop

4.5 PDHs

4.5 CECs

April 5, 2018



Michael D. Warner, P.E., CFM  
Executive Director



STORMWATER MANAGEMENT COMMISSION



Kurt A. Woolford, P.E., CFM  
Chief Engineer



Illinois Association for Floodplain and Stormwater Management

## Certificate of Training

*James Patterson*

has satisfactorily completed training during the

## 2018 IAFSM Annual Conference

Conducted by

The Illinois Association for Floodplain and Stormwater Management

Location: Tinley Park, Illinois  
Date: March 14<sup>th</sup> and 15<sup>th</sup>, 2018

PDH Credits: 11.5  
CEC Credits: 10

*Diane Bouckaert*

Diane Bouckaert, PE, CFM, CPESC  
Chair, Education Outreach Committee



# IAFSM

*Illinois Association for  
Floodplain and Stormwater Management*

American Society of Civil Engineers (ASCE) Illinois Section  
**Certificate of Attendance**

James Patterson

---

participated in:

ILLINOIS MS4 IMPLEMENTATION SEMINAR

February 27, 2018

Schaumburg, IL

3.0 professional development hours

I hereby certify that on the above-mentioned date I did attend the event identified above, thereby earning the professional development hours listed.



ENVIRONMENTAL &  
WATER RESOURCES  
INSTITUTE



  
\_\_\_\_\_  
Signed (attendee)

  
\_\_\_\_\_  
Matt Moffitt, P.E.

Chair, ASCE IL Section Environmental & Water Resources Institute

CERTIFICATE OF ATTENDANCE  
4 Professional Development Hours Presented To:

*Rick Valent*

For successful completion in attending:  
**Green Infrastructure Seminar  
for MS4 Communities**

November 29, 2017

PRESENTED BY:  
DUPAGE COUNTY STORMWATER MANAGEMENT  
ANTHONY J. CHARLTON, PE - DIRECTOR



*Anthony J. Charlton*

Signature

11/29/2017

# CERTIFICATE OF ATTENDANCE

4 Professional Development Hours Presented To:

*Rick Valent*

For successful completion in attending:

**Pollution Prevention For MS4 Communities**

April 5, 2017

PRESENTED BY:  
DUPAGE COUNTY STORMWATER MANAGEMENT  
ANTHONY J. CHARLTON, PE - DIRECTOR

*Anthony J. Charlton*  
Signature

\_\_\_\_\_  
Date





## DuPage River Salt Creek Workgroup

**This certificate awards 3 Professional Development Hours to  
Rick Valent**

**As evidenced by sign-in sheets at the Workgroup's meetings  
on 2/22/17, 4/26/17 & 8/30/17**

Presented by:

The DuPage River Salt Creek Workgroup  
10 S 404 Knoch Knolls Road  
Naperville, IL 60565  
(630) 768-7427

*Workgroup meetings include  
at least one hour of technical  
presentation and discussion.  
Some of the presentations are  
available at [www.drscw.org](http://www.drscw.org).*

---

David P. Gorman, PE, President

October 30, 2017

---

Date



# Village of Oak Brook Stormwater Management Program Plan (SMPP)

Darren T. Olson, PE

Christopher B. Burke Engineering, Ltd.

# Why Does the Village Need a SMPP?

- Required by USEPA
- National Pollutant Discharge Elimination System (NPDES)

Federal permit program controls water pollution by regulating point sources that discharge pollutants into waters of the U.S. (construction sites, wastewater treatment plants, industrial sites, municipalities)

- Municipal Separate Storm Sewer System (MS4)

A stormwater conveyance system within a state, city, or other public entity that discharges to waters of the U.S.

# What is a SMPP?

- A Stormwater Management Program Plan (SMPP) is comprised of Best Management Practices (BMPs) and measurable goals for each of the following 6 minimum control measures:
  1. Public education and outreach on stormwater impacts
  2. Public involvement/participation in stormwater issues
  3. Illicit discharge detection and elimination
  4. Construction site storm water runoff control
  5. Post construction storm water management in new development and redevelopment
  6. Pollution prevention/good housekeeping for municipal operations

# Minimum Control Measure #1

- **Public Education and Outreach**
  - Requirement: Distribute educational material to the public on impacts of stormwater discharges to waterway and what the public can do to reduce them.
  - Village Program:
    - Newsletter Article
    - Brochures available at Community Development
    - Village Website
    - Promote DuPage County Programs

# Minimum Control Measure #2

- **Public Involvement/Participation**
  - Requirement: Engage the Public on the impacts of stormwater on waterways through meetings, stakeholder groups and volunteer activities.
  - Village Program:
    - Public Noticed Meeting on SMPP
    - Member of Watershed Workgroup
    - Promote DuPage County Programs

# Minimum Control Measure #3

- **Illicit Discharge Detection & Elimination**
  - Requirement: Develop, implement and enforce a program to detect and eliminate illicit connections and discharges to the stormwater system.
  - Village Program:
    - Stormsewer and outfall mapping in GIS
    - Title 15 in Village Code
    - Yearly Outfall Inspections
    - Procedures for Discharge Tracing and Response
    - DuPage County Agreement

# Minimum Control Measure #4

- **Construction Site Runoff Control**
  - Requirement: Develop, implement and enforce plan to reduce pollutants in runoff from construction sites.
  - Village Program:
    - Ordinance 9 In Village Code
    - Inspection Program for Construction Sites



# Minimum Control Measure #5

- **Post-Construction Stormwater Management**
  - Requirement: Develop, implement and enforce plan to reduce pollutants in runoff from new development and re-development
  - Village Program:
    - Title 9 in Village Code
    - Plan Review Process



# Minimum Control Measure #6

- **Pollution Prevention & Good Housekeeping**
  - Requirement: Implement training and pollution prevention measures for municipal staff to reduce discharge of pollutants from municipal properties and operations.
  - Village Program:
    - Annual Training of Appropriate Village Staff
    - Covered Salt Storage
    - Indoor Storage of Chemicals
    - Street Sweeping/Catchbasin Cleaning Program
    - Public Works Facility



# IEPA Compliance Audit

- September 30, 2016
- 15 Page Checklist
- Municipal Facilities Review
- Field Inspections
  - Developments
  - Municipal Facilities
- Compliance Verification!



**PASS**

# Questions ?



BY DOUG PATCHIN

## STORM SEWER'S REGIONAL IMPACT



Did you ever wonder where the water goes when you pour it down the drain? Water discarded through household drains flows through the sanitary sewer system to a wastewater treatment plant. Storm drains on the other hand flow directly to receiving waters such as lakes, rivers, ponds, creeks or wetland areas. In the Village of Oak Brook, storm water flows through the storm drains to places like Salt, Ginger, and Lacey Creeks or other wetlands. Each of these areas supports their own habitat and wildlife, which is why it is greatly important to be cautious about what goes down the drain.

**How the Village Helps** – The proper maintenance of the storm sewer system is one of many priorities for the Public Works Department. Storm drains are cleaned regularly of debris and trash. Street sweeping efforts are routinely conducted to keep roads safe for motorists, but also to prevent foreign objects from flowing into the storm sewers. In addition, snow plow trucks have control systems that automatically adjust the quantity of de-icing material which allows for a more consistent application rate resulting in reduced Chloride levels.

**How You can Help** – There are a number of things that you can do to help maintain and preserve natural waters and wetlands for years to come:

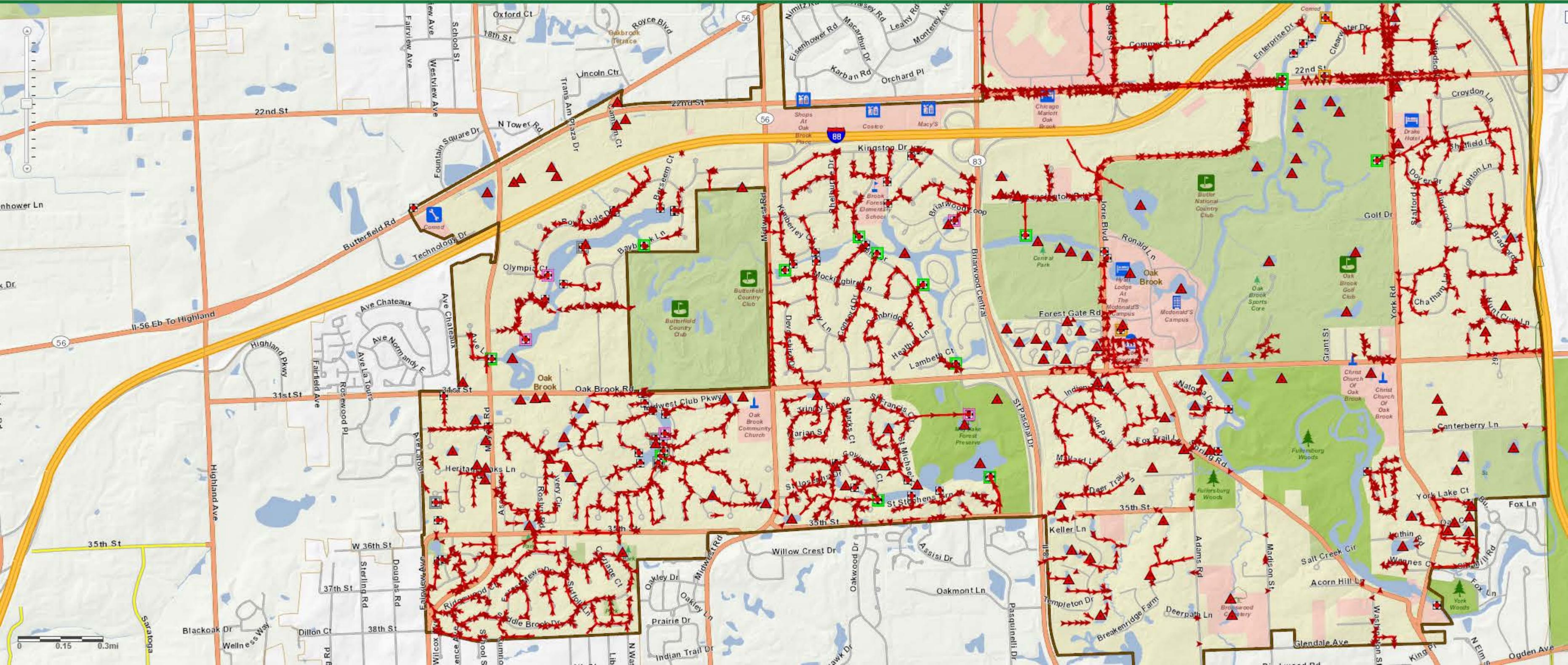
- **Pickup Litter.** Litter and debris often clog a storm sewer preventing water from reaching its destination. Worse yet, litter travels through the storm sewer to collector streams or waters and has a significant impact on the natural habitat.
- **Use non-phosphate low soap concentrations when washing your car in the driveway.** Commercial car washes dispose of their used water into the sanitary sewer, but residents who wash their cars in the driveway often let the dirty soapy water flow down the storm sewer.
- **Cleanup after pets.** This isn't just a neighborly courtesy. When it rains, animal waste is washed to the storm sewer, and ultimately finds its way to natural waters or wetlands where it contaminates the habitat.
- **Properly dispose of chemicals.** When working on your car or disposing of household chemicals, contact your local recycling facilities, auto shop, or even hardware stores to see if they accept old or unused chemicals. Don't pour them into your yard or wash them down the driveway.

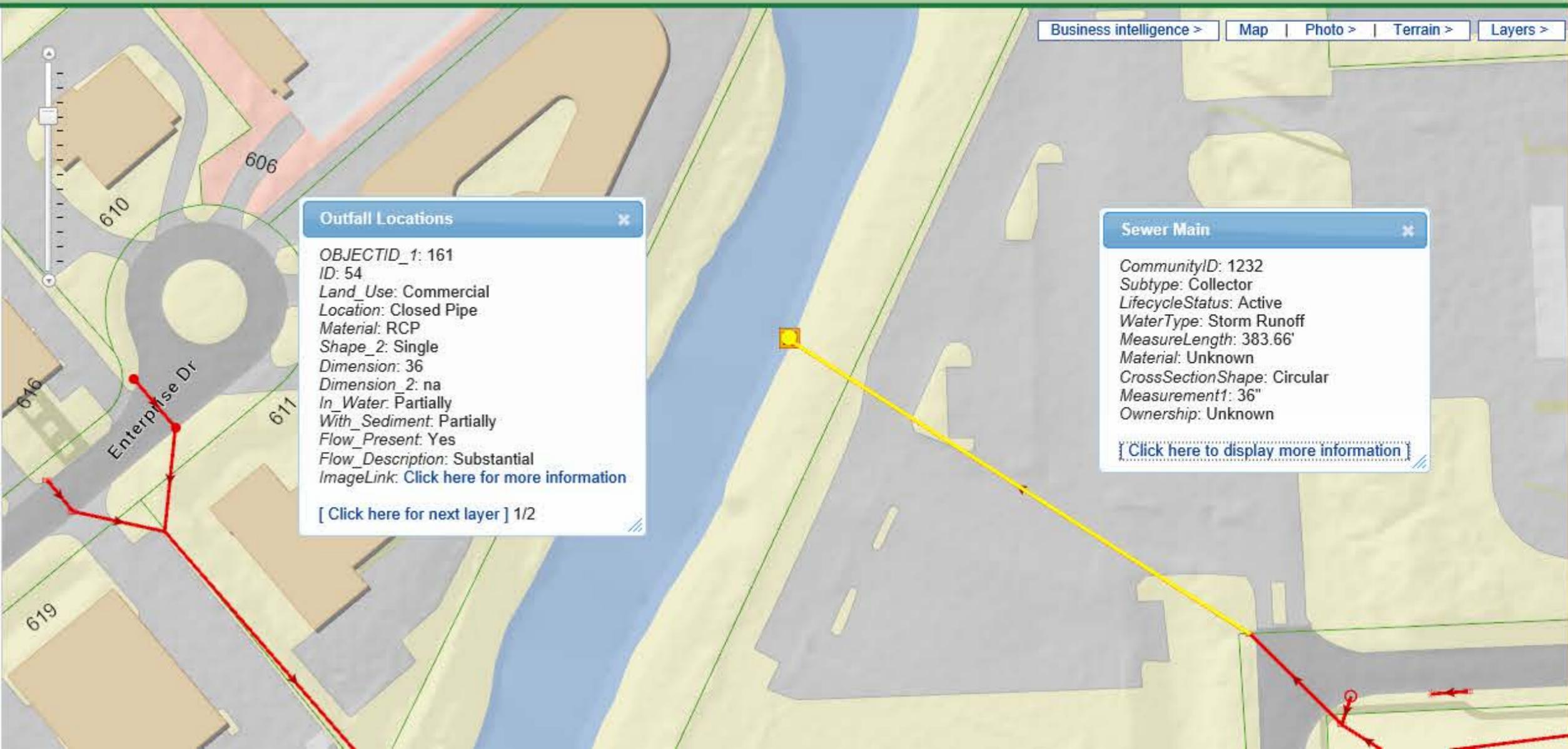
Storm sewers are important to the quality of life that the Oak Brook Community enjoy. ***It is everyone's responsibility to ensure that the impacts of our actions are not felt downstream.*** For more information on storm sewers and what you can do locally to help maintain waterways and wetlands, visit the Environmental Protection Agency's website at <http://cfpub.epa.gov/npdes/> or contact the Village at 630-368-5000.

Doug Patchin  
Director of Public Works  
(630) 368-5272  
[dpatchin@oak-brook.org](mailto:dpatchin@oak-brook.org)



**GIS-BASED STORM SEWER AND DETENTION BASIN WEB APPLICATION**





Business intelligence > | Map | Photo > | Terrain > | Layers >

**Outfall Locations**

OBJECTID\_1: 161  
ID: 54  
Land\_Use: Commercial  
Location: Closed Pipe  
Material: RCP  
Shape\_2: Single  
Dimension: 36  
Dimension\_2: na  
In\_Water: Partially  
With\_Sediment: Partially  
Flow\_Present: Yes  
Flow\_Description: Substantial  
ImageLink: [Click here for more information](#)

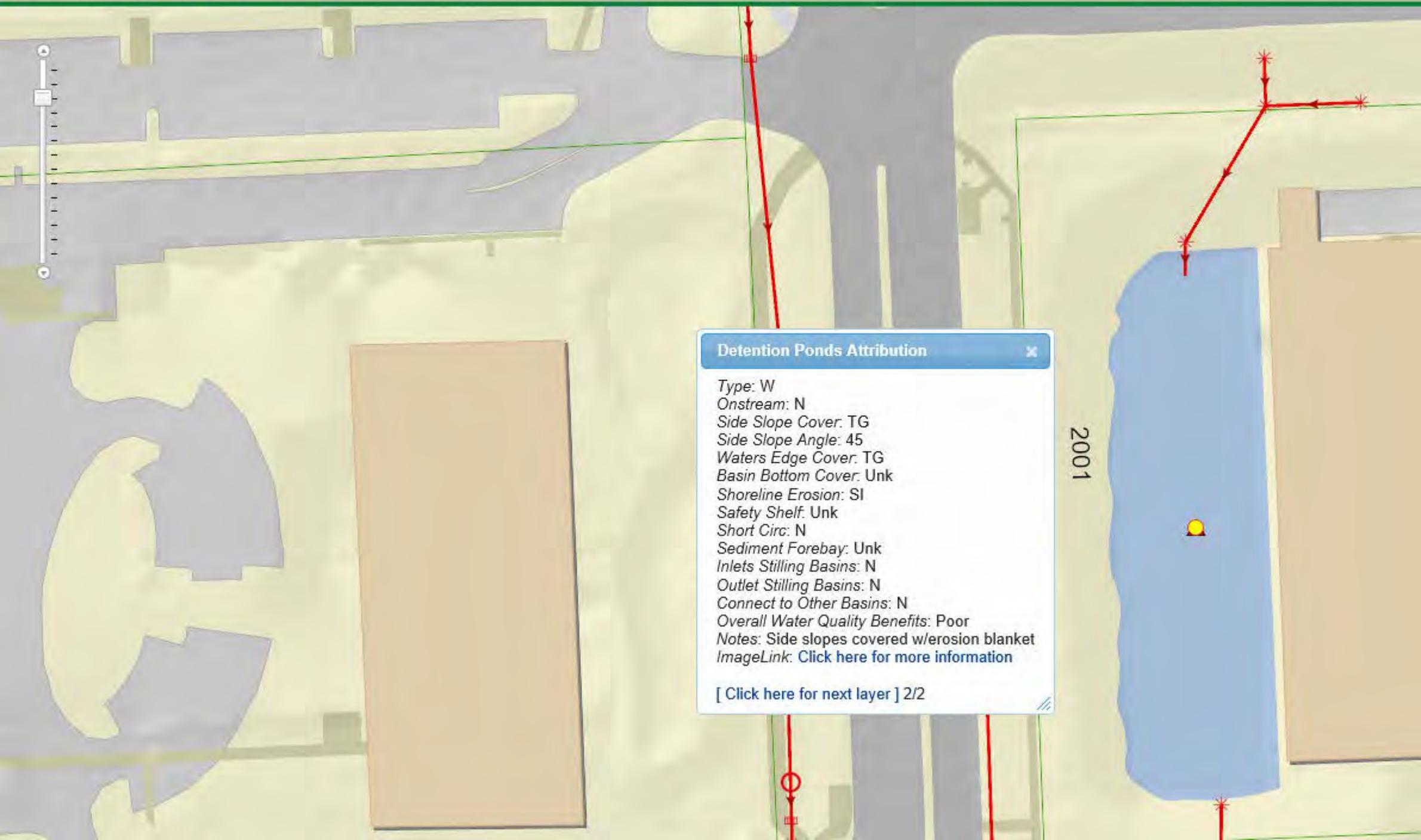
[ Click here for next layer ] 1/2

**Sewer Main**

CommunityID: 1232  
Subtype: Collector  
LifecycleStatus: Active  
WaterType: Storm Runoff  
MeasureLength: 383.66'  
Material: Unknown  
CrossSectionShape: Circular  
Measurement1: 36"  
Ownership: Unknown

[ Click here to display more information ]





**Detention Ponds Attribution** [X]

Type: W  
Onstream: N  
Side Slope Cover: TG  
Side Slope Angle: 45  
Waters Edge Cover: TG  
Basin Bottom Cover: Unk  
Shoreline Erosion: SI  
Safety Shelf: Unk  
Short Circ: N  
Sediment Forebay: Unk  
Inlets Stilling Basins: N  
Outlet Stilling Basins: N  
Connect to Other Basins: N  
Overall Water Quality Benefits: Poor  
Notes: Side slopes covered w/erosion blanket  
ImageLink: [Click here for more information](#)

[ Click here for next layer ] 2/2

2001

**DUPAGE RIVER SLAT CREEK WORKGROUP ANNUAL REPORT**

**DRSCW ILR40 Activities  
March 2017 – February 2018**

**PART I. COVERAGE UNDER GENERAL PERMITS ILR40**

Not applicable to the work of the DRSCW.

**PART II. NOTICE OF INTENT (NOI) REQUIREMENTS**

Not applicable to the work of the DRSCW.

**PART III. SPECIAL CONDITIONS**

Not applicable to the work of the DRSCW.

**PART IV. STORM WATER MANAGEMENT PROGRAMS**

**A. Requirements**

Not applicable to the work of the DRSCW.

**B. Minimum Control Measure**

*1. Public Education and Outreach on Stormwater Impacts*

DRSCW outreach activities for the year ending 2017 included:

- The DRSCW website was maintained during the reporting period and periodically updated with presentations and material ([www.drscw.org](http://www.drscw.org)).
- A searchable database with information on local aquatic biodiversity (IBIs), habitat (QHEI), and sediment and water column chemistry was maintained and periodically updated.
- The DRSCW created a “Water Resource Manager’s Guide to Aquatic Bioassessment,” to be finalized in 2018-2019.
- Public information available on the website includes:
  - Chloride Fact Sheets aimed at mayors and managers, public works staff, commercial operators, and homeowners.
  - Model salt Storage and Handling Ordinances and Policies.
  - Model Facilities Plan for Snow and Ice Control.
  - A fact sheet summarizing alternative deicing products.
  - Information of effective operating parameters for commonly used anti icing compounds.
  - Parking lots chloride application rate guidance example sheet and aide memoire.

- A brochure on coal tar sealants as a source of Polycyclic Aromatic Hydrocarbons (PAHs) aimed at homeowners (produced by the University of New Hampshire Stormwater Center).
- Detailed reports on the biological and chemical conditions of area waterways.



## Technical Presentations

Workgroup meetings: The Workgroup hosts bimonthly meetings where technical presentations are made on a variety of water quality topics and surface water management subjects. The audience consists of mainly stormwater and wastewater professionals but the public is welcome to attend. Presentations made during the period March 1, 2017 to February 28, 2018 are listed below. Selected presentations are made available on the DRSCW website and upon request.

April 16, 2017 – Comprehensive Basin Assessment: East Branch 2014. Chris Yoder, Research Director, Midwest Biodiversity Institute

June 28, 2017 – Lower Salt Creek Watershed BMP Identification. Holly Hudson, Senior Aquatic Biologist, NE Illinois VLMP Coordinator, Chicago Metropolitan Agency for Planning (CMAP)

June 28, 2017 – DRSCW Nutrient Trading Development. Deanna Doohaluk, Watershed Project Manager, The Conservation Foundation/DRSCW

August 30, 2017 – Results of the 2015 Biological and Water Quality Study of the West Branch DuPage River Watershed. Chris Yoder, Research Director, Midwest Biodiversity Institute

October 26, 2018 – Results of the Leaf Litter Study. Presenter: Bill Selbig, Research Hydrologist, USGS - Wisconsin Water Science Center

December 13, 2018 – Stream Nutrient Assessment Procedure (SNAP). Robert Milter, Environmental Scientist, Ohio EPA

## Other Water Quality Presentations or Workshops by the DRSCW

March 16, 2017 – Lower DuPage River Watershed Coalition Meeting (Plainfield, Illinois). Presentation on coal tar based sealcoats. Presenter: Deanna Doohaluk, TCF/DRSCW

April 6, 2017 – 319 Lower Salt Creek Watershed Based Plan Stakeholder Meeting (Elmhurst, Illinois). Monitoring and Conditions in Salt Creek. Presenter: Deanna Doohaluk, TCF/DRSCW

April 20, 2017 – College of DuPage (Glen Ellyn, Illinois). ‘Got H2O? Water Resource Challenges Facing Northeastern Illinois’. Presenter: Stephen McCracken, TCF/DRSCW

April 25th –Illinois Wastewater Professional Conference IWEA Panel on monitoring (Springfield, Illinois). Presenter: Stephen McCracken, TCF/DRSCW

May 2, 2017 – Lower Des Plaines Watershed Group (Romeoville, IL). NIP Development. Presenter: Deanna Doohaluk, TCF/DRSCW

May 4th – Sweet Water Trust (Wisconsin). Adaptive Management Financing and Implementation and Project Selection (SMC), Oak Meadows Design and Financing. Presenter: Stephen McCracken, TCF/DRSCW and Erin Pande, ERA

June 8, 2017 – 319 Lower Salt Creek Watershed Based Plan Stakeholder Meeting (Brookfield, Illinois). Dissolved Oxygen Monitoring in Salt Creek. Presenter: Deanna Doohaluk, TCF/DRSCW

June 9, 2017 – IEPA (Springfield, IL). Development of the DRSCW Nutrient Trading Framework. Presenter: Deanna Doohaluk, TCF/DRSCW and Stephen McCracken, TCF/DRSCW

July 10, 2017 – Board of Commissioners of the Forest Preserve District of DuPage County (Wheaton, Illinois). Outreach Plan for Modification of the Fullersburg Woods Dam. Presenters: Erik Neidy, Forest Preserve District of DuPage County and Malcolm Mossman, Bluestem Communications

August 8, 2017 – Village of Oak Brook Board of Trustees (Oak Brook, Illinois). Outreach Plan for Modification of the Fullersburg Woods Dam. Presenters: Stephen McCracken, TCF/DRSCW and Malcolm Mossman, Bluestem Communications

August 10, 2017 – 319 Lower Salt Creek Watershed Based Plan Stakeholder Meeting (Villa Park, Illinois). River Restoration at Oak Meadows. Presenter: Deanna Doohaluk, TCF/DRSCW

September 27, 2017. Salt Creek Chapter of the Illinois Society of Professional Engineers. DRSCW approach to Watershed Management. Presenter: Stephen McCracken, TCF/DRSCW

October 5, 2017 – 319 Lower Salt Creek Watershed Based Plan Stakeholder Meeting (Westchester, Illinois). Progressing to a sensible salting policy in the Salt Creek Basin. Presenter: Deanna Doohaluk, TCF/DRSCW

December 7, 2017 – 319 Lower Salt Creek Watershed Based Plan Stakeholder Meeting (Itasca, Illinois). 2016 Monitoring Results for the Lower Salt Creek Watershed. Presenter: Deanna Doohaluk, TCF/DRSCW

February 28, 2018 – CSWEA Government Affairs Seminar (Springfield, IL). DRSCW Projects and NPDES Permits. Presenter: Nick Menninga, Downers Grove Sanitary District

*2. Public Involvement and Participation – no activities*

*3. Illicit Discharge Detection and Elimination – no activities*

*4. Construction Site Storm Water Runoff Control - no activities*

*5. Post-Construction Storm Water Management in New Development and Redevelopment - no activities*

*6. Pollution Prevention/Good Housekeeping for Municipal Operations*

#### *Chloride Questionnaires*

The DRSCW has attempted to track adoption of sensible salting BMPs in the program area since 2007. Monitoring ambient chloride concentrations has proven an imperfect metric for tracking efficiency trends in winter salt use. Tracking target BMP adoption in the program area provides opportunities to evaluate the impacts of the chloride management workshops; identify material for future workshops and form suppositions about salt use per unit of service expended inside the program area relative to 2006 levels.

In 2007, 2010, 2012, 2014, and 2016, the DRSCW distributed a questionnaire to approximately 80 municipal highway operations and public works agencies to obtain information about deicing practices throughout the program area. The findings of the 2016 questionnaires are summarized in attachment A. A new questionnaire will be distributed in spring of 2018 and the results will be supplied in the March 2018-February 2019 Report.

Forty-three (43) agencies responded to the 2016 survey, the highest number of agencies ever responding to a program survey. The increase in use of dry NaCl and drop in liquid NaCl were both functions of the increased participation in the survey and do not appear to reflect a move away from application BMPs.

Almost all agencies in the program area have covered permanent salt storage facilities but there still some opportunities for storage and salt handling improvements across the watersheds, notably sweeping up loading areas post loading.

The 2016 survey did show increased implementation of certain priority best management practices:

- Spreading equipment calibration
- Use of weather forecasting for deicing response decisions
- Use of pavement temperature information for deicing response decisions

The survey shows expanded use of anti-icing (pretreatment) BMPs throughout the watershed, and continued use and testing of alternative deicing materials and additives to reduce total salt usage. Agencies who are still reporting use of more than 400 pounds of salt per lane mile may be prioritized by the Chloride Reduction Program for outreach and BMP information in 2018.

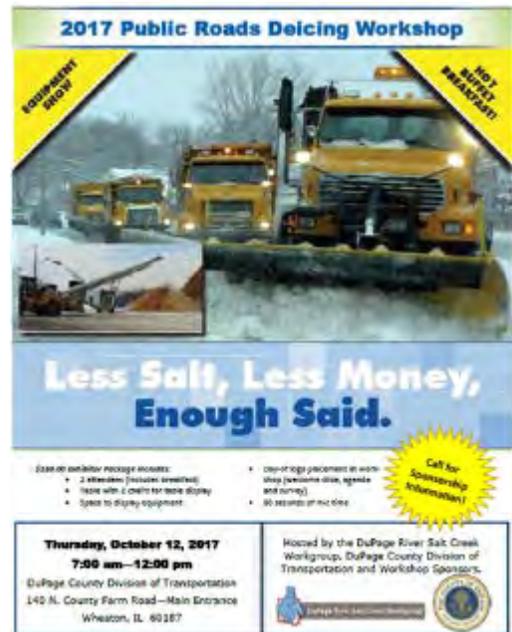
The 2016 survey highlights significant local deicing program management oversight improvements, particularly with control over application rates. Recordkeeping improvements have been implemented throughout the watershed area to better manage the quantity of salt being used in different situations. Nine out of 42 responses reported changes made to their program due to local deicing program workshops. Common methods of informing the public of policy or local program changes include the use of city or township website, newsletter, social media, and press releases.

### *Chloride Reduction Workshops*

Two chloride reduction workshops were held during the reporting period ending March 2018.

The **public roads deicing workshop** held at DuPage County DOT on October 12, 2017 with the following agenda:

- 7:00 - 7:25 Registration and Breakfast
- 7:25 -7:30 Welcome and Housekeeping- Mike Tuman, DuPage County DOT & Sponsor Recognition – Denver Preston, K-Tech Specialty Coatings
- 7:30 – 7:45 Salt Use & The Environment in the DRSCW Program Area - Stephen McCracken, The Conservation Foundation/DRSCW
- 7:45 – 8:00 MS4 Inspections for Public Works Facilities, Dan Bounds, Baxter & Woodman
- 8:00 – 8:45 Building an Award Winning Snowfighting Program, Bryan Beitzel, Village of Buffalo Grove
- 8:45 –9:00 BREAK (includes exhibitor mic time)
- 9:05 – 9:30 Automated Systems, Dave Kjederquist, Swenson
- 9:30– 10:00 Choosing the Right Blades, Gardi Willis, Kueper North America
- 10:00 – 10:30 Pavement Temperature Sensors, Mark DeVries, Vaisala
- 10:30 – 10:45 Break (includes exhibitor mic time)
- 10:50 – 11:20 Chloride Offset Program, Bryan Wagner, Illinois Tollway; Rick Radde, Village of Bensenville
- 11:20 – 11:55 Shared Services, Todd Hoppenstedt, Village of Montgomery
- 11:55 – 12:00 Wrap Up, Evaluations, Equipment Show



Attendance – 149 registered, 11 presenters/staff, 6 committee members/guests; 9 sponsors/exhibitors = 175 total. All participants received a certificate of attendance. We received 87 feedback forms from participants.

The **parking lots and sidewalks deicing workshop** was held at DuPage County DOT on October 5, 2017 with the following agenda:

- Ambient conditions and regulatory update: Stephen McCracken, The Conservation Foundation/DRSCW
- Information on developing efficient and cost-effective snow fighting operations, appropriate product selection, equipment selection, application rates, equipment calibration, ambient conditions monitoring. Presenters: Connie Fortin, Fortin Consulting and Chis Walsh, (former Public Works Director with City of Beloit, WI)
- Test on workshop materials.

Attendance - 82 registrations, 7 presenters/staff, 6 exhibitors/staff = 95 total. All participants received a training certificate and participants who successfully completed the test are recognized on DuPage County Stormwater Management’s Water Quality – Pollution Prevention/Good Housekeeping web page. The DRCCW received 65 program evaluations from participants.

The poster for the 2017 Parking Lot & Sidewalk Deicing Workshop features a large photograph of a parking lot at dusk with a snowplow in the distance. A yellow banner in the top right corner reads "HOT BUFFET BREAKFAST!". Below the main image are two smaller inset photos: one of a snowplow operating and another showing a close-up of snow with salt. The main headline reads "Less Salt, Less Money, Enough Said." Below this, a list of exhibitor package inclusions is provided: 2 attendees (including breakfast), a table with 2 chairs for table display, and space to display equipment. To the right, a yellow starburst graphic says "Call for Sponsorship Information!". At the bottom, the event details are listed: Thursday, October 5, 2017, 7:30 am–12:30 pm, at the DuPage County Division of Transportation, 140 N. County Farm Road—Main Entrance, Wheaton, IL 60187. The event is hosted by the DuPage River Salt Creek Workgroup, DuPage County Division of Transportation and Workshop Sponsors. Logos for the DuPage River Salt Creek Workgroup and the Illinois Department of Transportation are also present.

**C. Qualifying State, Country or Local Program**

Not applicable to the work of the DRSCW.

**D. Sharing Responsibility**

This report outlines the activities conducted by the DRSCW on behalf of its’ members related to the implementation of the ILR40 permit. It is the responsibility of the individual ILR40 permit holders to utilize this information to fulfill the reporting requirements outlined in Part V.C. of the permit.

**E. Reviewing and Updating Stormwater Management Programs**

Not applicable to the work of the DRSCW.

## PART V. MONITORING, RECORDKEEPING, AND REPORTING

### A. Monitoring

The ILR40 permit states that permit holders “must develop and implement a monitoring and assessment program to evaluate the effectiveness of the BMPs being implemented to reduce pollutant loadings and water quality impacts”. The DRSCW monitoring program meets the following monitoring objectives and requirements outlined in the permit:

- Measuring pollutants over time (Part V. A. 2. b. ii)
- Sediment monitoring (Part V. A. 2. b. iii)
- Assessing physical and habitat characteristics such as stream bank erosion caused by storm water discharges ((Part V. A. 2. b. vi)
- Collaborative watershed-scape monitoring (Part V. A. 2. b. x)
- Ambient monitoring of total suspended solids, total nitrogen, total phosphorus, fecal coliform, chlorides, and oil and grease (Part V. A. 2. c.)

The DRSCW water quality monitoring program is made up of two components: 1) Bioassessment and 2) DO monitoring.

#### BIOASSESSMENT

##### Overview and Sampling Plan

A biological and water quality survey, or “biosurvey”, is an interdisciplinary monitoring effort coordinated on a waterbody specific or watershed scale. This may involve a relatively simple setting focusing on one or two small streams, one or two principal stressors, and a handful of sampling sites or a much more complex effort including entire drainage basins, multiple and overlapping stressors, and tens of sites. The DRSCW bioassessment is the latter. The DRSCW bioassessment program began in 2007 with sampling in the West Branch DuPage River, East Branch DuPage River and Salt Creek watersheds. From 2009-2016, each watershed was sampled on a 3-year rotation beginning with the West Branch DuPage River watershed in 2006. Beginning in 2017, watershed will be sampled in a 5-year rotation ensuring that each watershed will be sampled during the effective period of the ILR40 permit. The bioassessment program functions under a quality assurance plan agreed on with the Illinois Environmental Protection Agency (<http://drscw.org/wp/bioassessment/>). Table 1 details the bioassessment sampling dates for each DRSCW watershed.

**Table 1.** Bioassessment sampling dates for the DRSWC watershed

<b>Watershed</b>	<b>Sampling Completed (year)</b>	<b>Sampling Scheduled (year)</b>
West Branch DuPage River	2007, 2009, 2012, 2015	2020
East Branch DuPage River	2007, 2011, 2014	2019
Salt Creek	2007, 2010, 2013, 2016	2021

The DRSCW bioassessment program utilizes standardized biological, chemical, and physical monitoring and assessment techniques employed to meet three major objectives:

- 1) determine the extent to which biological assemblages are impaired (using IEPA guidelines);
- 2) determine the categorical stressors and sources that are associated with those impairments; and,
- 3) add to the broader databases for the DuPage River and Salt Creek watersheds to track and understand changes through time in response to abatement actions or other influences.

The data collected as part of the bioassessment is processed, evaluated, and synthesized as a biological and water quality assessment of aquatic life use status. The assessments are directly comparable to previously conducted bioassessments such that trends in status can be examined and causes and sources of impairment can be confirmed, amended, or removed. A final report containing a summary of major findings and recommendations for future monitoring, follow-up investigations, and any immediate actions that are needed to resolve readily diagnosed impairments is prepared following each bioassessment. The bioassessment reports are posted on the DRSCW at <http://drscw.org/wp/bioassessment/>. It is not the role of the bioassessments to identify specific remedial actions on a site specific or watershed basis. However, the baseline data provided by the bioassessments contributes to the Integrated Priority System that was developed to help determine and prioritize remedial projects (<http://drscw.org/wp/project-identification-and-prioritization-system/>).

Sampling sites for the bioassessment were determined systematically using a geometric design supplemented by the bracketing of features likely to exert an influence over stream resource quality, such as CSOs, dams and wastewater outfalls. The geometric site selection process starts at the downstream terminus or “pour point” of the watershed (Level 1 site), then continues by deriving each subsequent “panel” at descending intervals of one-half the drainage area (D.A.) of the preceding level. Thus, the drainage area of each successive level decreases geometrically. This results in seven drainage area levels in each of the three watersheds, starting at the largest (150 sq. mi) and continuing through successive panels of 75, 38, 19, 9, 5 and 2 sq. mi. Targeted sites are then added to fill gaps left by the geometric design and assure complete spatial coverage in order to capture all significant pollution gradients including reaches that are impacted by wastewater treatment plants (WWTPs), major stormwater sources, combined sewer overflows (CSOs) and dams. The number of sampling sites by method/protocol and watershed are listed in Table 2 and illustrated in Figure 1.

#### Representativeness – Reference Sites

Data is collected from selected regional reference sites in northeastern Illinois preferably to include existing Illinois EPA and Illinois DNR reference sites, potentially being supplemented with other sites that meet the Illinois EPA criteria for reference conditions. One purpose of this data will be to index the biological methods used in this study that are different from Illinois EPA and/or DNR to the reference condition and biological index calibration as defined by Illinois EPA.

In addition, the current Illinois EPA reference network does not yet include smaller headwater streams, hence reference data is needed to accomplish an assessment of that data. Presently thirteen (13) reference sites have been established.

**Table 2.** Number of sampling sites in the DRSCW project area.

Method/Protocol	West Branch DuPage River (2013)	East Branch DuPage River (2014)	Salt Creek (2016)	Reference Sites (2006-2016)	Total Sites
Biological sampling					
Fish	44	36	51	13	144
Macroinvertebrates	44	36	51	13	144
QHEI	44	36	51	13	144
Water Column Chemical/Physical Sampling					
Nutrients*	44	36	51	6	137
Water Quality Metals	44	36	51	6	137
Water Quality Organics	18	11	16	6	51
Sediment Sampling	18	11	16	6	51

\*Also included indicators of organic enrichment and ionic strength, total suspended solids (TSS), DO, pH and temperature

The bioassessment sampling includes four (4) sampling methods/protocols: biological sampling, Qualitative Habitat Evaluation Index (QHEI), water column chemical/physical parameter sampling and sediment chemistry. The biological sampling includes two assemblages: fish and macroinvertebrates.

## **FISH**

### **Methodology**

Methods for the collection of fish at wadeable sites was performed using a tow-barge or longline pulsed D.C. electrofishing apparatus (MBI 2006b). A Wisconsin DNR battery powered backpack electrofishing unit was used as an alternative to the long line in the smallest streams (Ohio EPA 1989). A three-person crew carried out the sampling protocol for each type of wading equipment sampling in an upstream direction. Sampling effort was indexed to lineal distance and ranged from 150-200 meters in length. Non-wadeable sites were sampled with a raft-mounted pulsed D.C. electrofishing device in a downstream direction (MBI 2007). Sampling effort was indexed to lineal distance over 0.5 km. Sampling was conducted during a June 15-October 15 seasonal index period.

Samples from each site were processed by enumerating and recording weights by species and by life stage (y-o-y, juvenile, and adult). All captured fish were immediately placed in a live well, bucket, or live net for processing. Water was replaced and/or aerated regularly to maintain adequate D.O. levels in the water and to minimize mortality. Fish not retained for voucher or other purposes were released back into the water after they had been identified to species, examined for external anomalies, and weighed either individually or in batches. While the

majority of captured fish were identified to species in the field, any uncertainty about the field identification required their preservation for later laboratory identification. Identification was made to the species level at a minimum and to the sub-specific level if necessary. Vouchers were deposited and verified at The Ohio State University Museum of Biodiversity (OSUMB) in Columbus, OH.

### Results

The fish sampling results presented in this report summarize the findings for the mainstem reaches of the East Branch DuPage River, the West Branch DuPage River and Salt Creek. Information on the tributaries and detailed analysis of all results can be found at <http://drscw.org/wp/bioassessment/>.

The fish and macroinvertebrate results are presented as Index of Biotic Integrity (IBI) scores. IBI is an evaluation of a waterbodies biological community in a manner that allows the identification, classification and ranking of water pollution and other stressors. IBIs allow the statistical association of various anthropogenic influences on a water body with the observed biological activity in said water body and in turn the evaluation of management interventions in a process of adaptive management. Chemical testing of water samples produce only a snapshot of chemical concentrations while an IBI allows an evaluation of the net impact of chemical, physical and flow variables on a biological community structure. Dr. James Karr formulated the IBI concept in 1981.

#### *East Branch DuPage River*

Fish assemblage conditions throughout the East Branch DuPage River watershed a in the poor and fair ranges (Figure 1). However, the mainstem assemblages show similar quality or modest improvement at nearly all sites when 2014 data is compare to 2011 and approach 2007 levels.

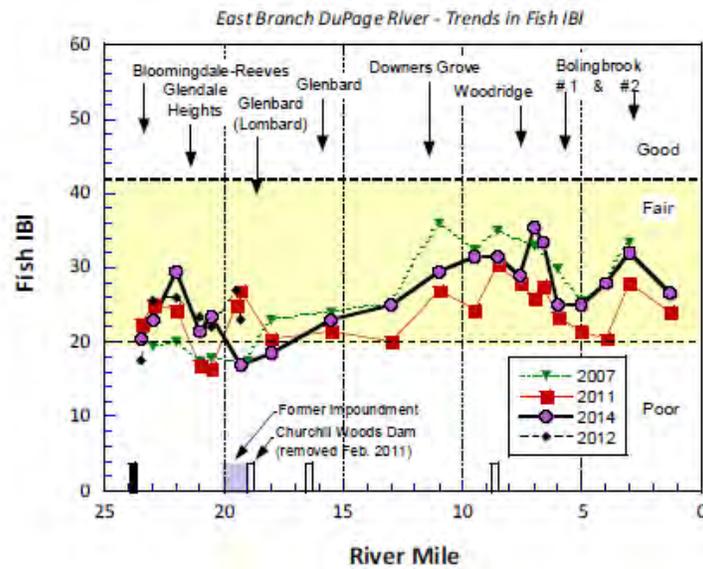
Prior to the modification of the Churchill Woods dam in 2001, fish assembles upstream of the dam, were essentially that of a pond and dominated by sunfish, bullheads, golden shiner, and mosquito fish. Downstream of the dam, the fish assemblage reflected more lotic, stream like conditions with populations of sand shiner, johnny darter, horneyhead chub and rock bass. Since the modification of the Churchill Woods dam, eight new species have been recorded and other populations have expanded their ranges above the former dam site. Additionally, in 2014, two new species (banded darter and round goby) were recorded in the lower reaches of the East Branch. The appearance of the banded darter, a sensitive species, is a sign of improved quality in the lower nine miles of the main stem.

#### *West Branch DuPage River*

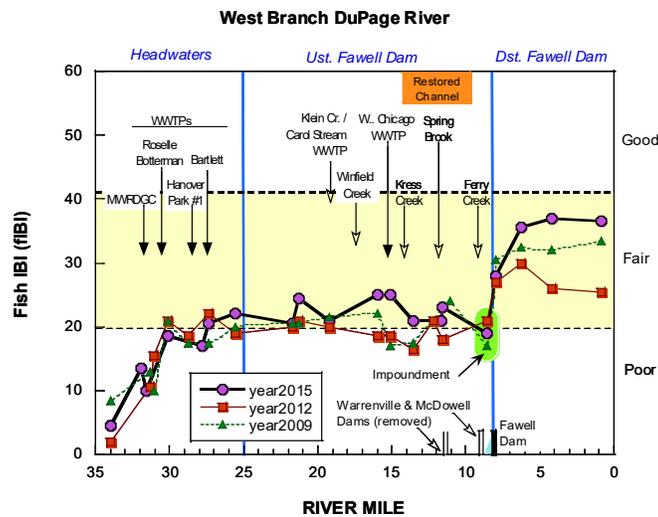
All survey sites fell consistently in the poor or lower fair ranges with slightly higher scores downstream from RM 8.1 and the Fawell Dam (Figure 2). No West Branch sites met the 41-point criterion synonymous with a good quality assemblage.

It should be noted that the Fawell dam is a barrier to several fish species. The DRSCW in cooperation with DuPage County and Forest Preserve District of DuPage County plans to modify the Fawell Dam to allow for fish passage. This project is expected to be completed by 2018.

**Figure 1.** Fish IBI scores in the East Branch DuPage River, 2014, 2011-12 and 2007 in relation to municipal POTW dischargers. Bars along the x-axis depict mainstem dams or weirs (only black bars impede fish passage). The shaded area demarcates the “fair” narrative range.



**Figure 2.** Fish IBI scores in the West Branch DuPage River, 2015, 2011-12 and 2007 in relation to municipal POTW dischargers. Bars along the x-axis depict mainstem dams or weirs (only black bars impede fish passage). The shaded area demarcates the “fair” narrative range.



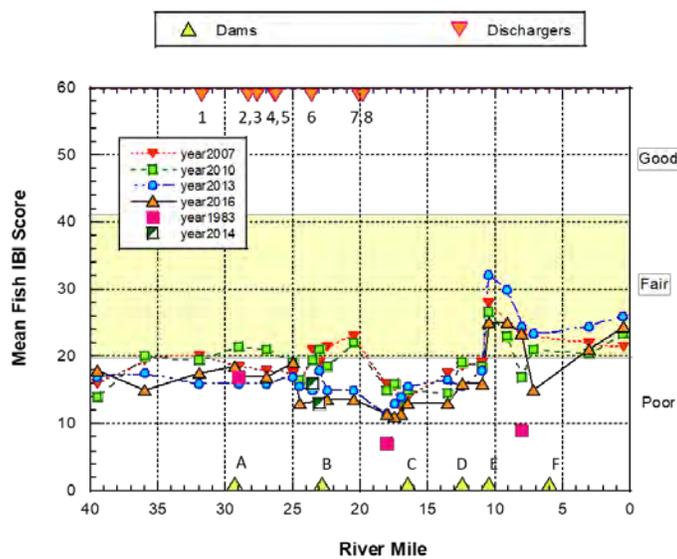
### Salt Creek

Fish assemblages sampled in Salt Creek mainstem in 2016 were consistently in poor condition upstream from the Graue Mill Dam and mostly fair downstream to the confluence with the Des Plaines River (Figure 3). This was similar to the pattern observed in 2013 although fIBI scores were slightly higher than in 2016 at most sites in the lower one-half of the mainstem. In fact, the general response of the fish assemblage was similar longitudinally among all four survey periods.

The Graue Mill Dam is a barrier to upstream fish movement with 17 fish species found only downstream of the dam and only two species only found upstream (Table 18). Many of the species only found downstream should have populations that extend well upstream of the dam (johnny darter, smallmouth bass, rock bass, hornyhead chub, etc.). Thus the dam as a barrier is a key factor that limits the ability of certain species to recolonize the upper reaches of Salt Creek as other precluding stressors (e.g., D.O., siltation, organic enrichment) are resolved. The DRSCW plans to modify the Fullersburg Woods Dam to allow for fish passage. This project is expected to be completed by 2023.

There was a wide variation in fIBI scores among the tributaries with no sites meeting the General Use fIBI threshold and many sites in poor condition. Sites in the Addison Creek subwatershed had the lowest fIBI scores with most rated as poor across all years. This generally matches the pattern observed with the QHEI in Addison Creek with uniformly poor habitat. However, Addison Creek also has several water quality stressors and poor habitat condition in other tributaries did not result in the skew of fIBI scores in the poor range.

**Figure 3.** Fish Index of Biotic Integrity scores for samples collected from Salt Creek in 1983, 2007, 2010, 2013, 2014 and 2016 in relation to the locations of NPDES permitted facilities, combined sewer overflow (CSO) outfalls, dams and principal tributaries. The locations of dams are arrayed along the x-axis and noted as triangles. The shaded area indicates the range for a restricted fish assemblage as defined by Illinois EPA.



## MACROINVERTEBRATES

### Methodology

The macroinvertebrate assemblage is sampled using the Illinois EPA (IEPA) multi-habitat method (IEPA 2005). Laboratory procedures followed the IEPA (2005) methodology for processing multi-habitat samples by producing a 300-organism subsample with a scan and pre-pick of large and/or rare taxa from a gridded tray. Taxonomic resolution is performed to the lowest practicable resolution for the common macroinvertebrate assemblage groups such as mayflies, stoneflies, caddisflies, midges, and crustaceans, which goes beyond the genus level requirement of IEPA (2005). However, calculation of the macroinvertebrate IBI followed IEPA methods in using genera as the lowest level of taxonomy for mIBI calculation and scoring.

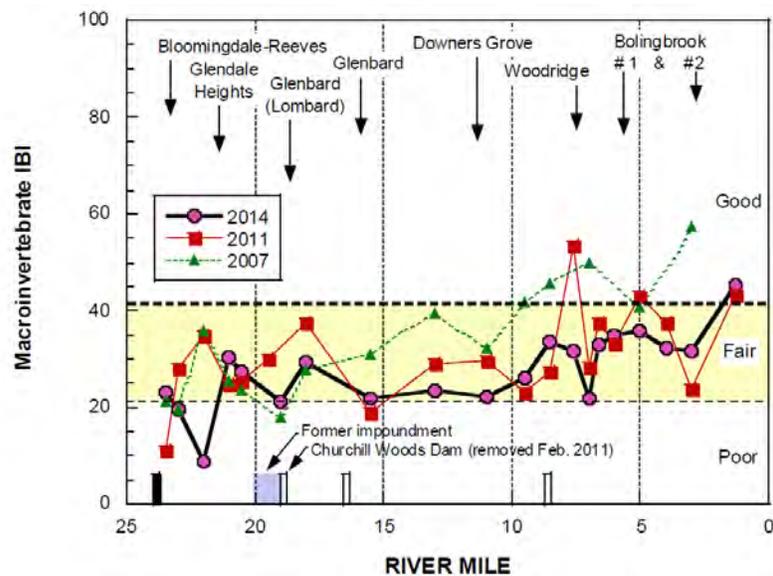
### Results

The macroinvertebrate sampling results presented in this report summarize the findings for the mainstem reaches of the East Branch DuPage River, the West Branch DuPage River and Salt Creek. Information on the tributaries and detailed analysis of all results can be found at <http://drscw.org/wp/bioassessment/>.

#### *East Branch DuPage River*

Macroinvertebrate collections from the 2014 East Branch watershed survey fell entirely within the fair or poor quality ranges with the exception of a single “good” site on the lower mainstem (Figure 4). Assemblages throughout the study area are predominated by facultative and tolerant organisms most often associated with elevated nutrients, dissolved solids and low DO.

**Figure 4.** Macroinvertebrate IBI scores in the East Branch DuPage River, 2014, 2011-12 and 2007 in relation to municipal POTW dischargers. Bars along the x-axis depict mainstem dams or weirs (only black bars impede fish passage). The shaded area demarcates the “fair” narrative range.

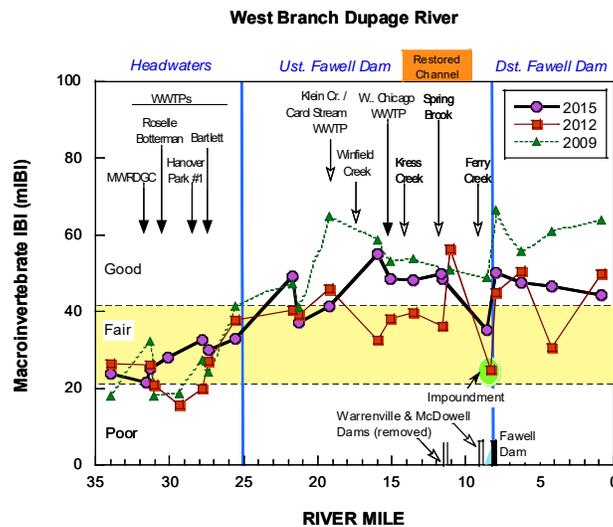


#### *West Branch DuPage River*

With few exceptions, West Branch macroinvertebrate assemblages from the upper, headwater reach reflected degraded but similar quality between 2007, 2009, 2012 and 2015 (Figure 5). The combination urban drainage, marginal habitat quality and a series of four major WWTP discharges in the small drainage were considered major contributors.

In both 2009 and 2015, major improvement in mIBI scores and clearly good mIBI ratings were detected upstream from Klein Creek and the Carol Stream WWTP (Figure 5). In 2009 and 2015, consistently good quality was maintained along the remaining length of the West Branch downstream to the mouth. In 2006, this downstream improving trend was more erratic; still 5 of the 8 sites between Klein Creek and the mouth exceeded Illinois criteria. In contrast, the 2012 trend was much less distinct as narrative ratings vacillated between a fair or lower good range status through most of the lower 20 mainstem river miles.

**Figure 5.** Macroinvertebrate IBI scores in the West Branch DuPage River, 2015, 2011-12 and 2007 in relation to municipal POTW dischargers. Bars along the x-axis depict mainstem dams or weirs (only black bars impede fish passage). The shaded area demarcates the “fair” narrative range.

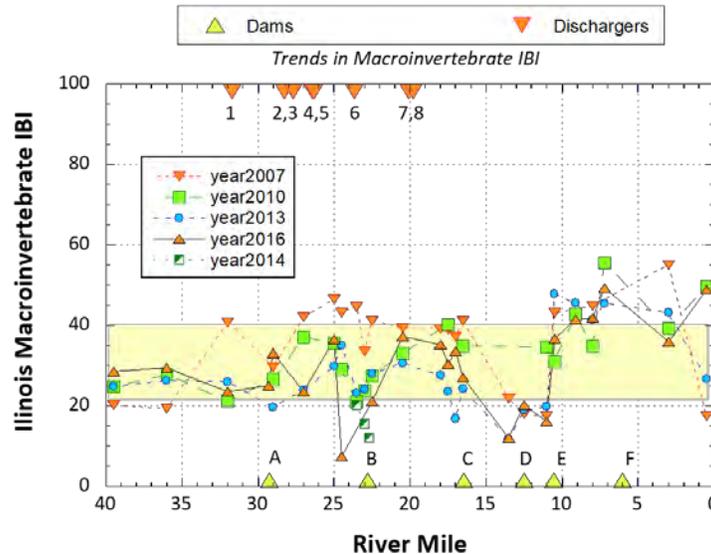


### Salt Creek

In 2013 and 2016 the macroinvertebrate assemblages in the Salt Creek mainstem were rated fair at most sites upstream from the Graue Mill Dam, and good at four and fair at two of the six sites downstream from the dam (Figure 6). Longitudinally, scores decreased downstream from Spring Brook relative to those upstream. The confluence with Spring Brook marks the reach where multiple WWTPs discharge in short succession.

In the 2016, the Oak Meadows Dam (dam B on Figure 6) was removed in a project sponsored by the Forest Preserve District of DuPage County, DuPage County Stormwater Management, and the DRSCW. Post-project sampling was completed in 2017. Post-project, both mIBI and individual species taxa biodiversity improved at the site. The 2017 post-project mean mIBI (33.2) increased 9.6 points compared to the 2013 score. The project’s objective is to increase the mean mIBI to 35. Post-project macroinvertebrate sampling to document the continued effects of this dam removal will occur in 2018 and 2019.

**Figure 6.** Macroinvertebrate IBI scores for samples collected from the Salt Creek mainstem, 2007, 2010, 2013, 2014, and 2016 in relation to publicly owned treatment works, low head dams (noted by diamond tipped bars adjoining the x-axis), and combined sewer outfalls (CSO). The shaded region demarcates the “fair” narrative range.



**HABITAT**

*Methodology*

Physical habitat was evaluated using the Qualitative Habitat Evaluation Index (QHEI) developed by the Ohio EPA for streams and rivers in Ohio (Rankin 1989, 1995; Ohio EPA 2006b) and as modified by MBI for specific attributes. Attributes of habitat are scored based on the overall importance of each to the maintenance of viable, diverse, and functional aquatic faunas. The type(s) and quality of substrates, amount and quality of instream cover, channel morphology, extent and quality of riparian vegetation, pool, run, and riffle development and quality, and gradient used to determine the QHEI score which generally ranges from 20 to less than 100. QHEI scores and physical habitat attribute were recorded in conjunction with fish collections.

*Results*

The QHEI data presented in this report summarize the findings for the mainstem reaches of the East Branch DuPage River, the West Branch DuPage River and Salt Creek. Information on the tributaries and detailed analysis of all results can be found at <http://drscw.org/wp/bioassessment/>.

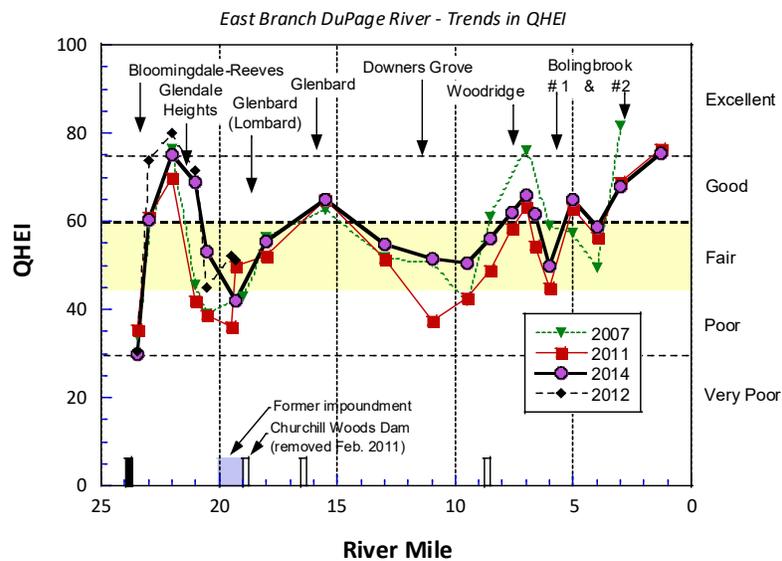
The physical habitat of a stream is a primary determinant of biological quality. Streams in the glaciated Midwest, left in their natural state, typically possess riffle-pool-run sequences, high sinuosity, and well-developed channels with deep pools, heterogeneous substrates and cover in the form of woody debris, glacial tills, and aquatic macrophytes. The QHEI categorically scores the basic components of stream habitat into ranks according to the degree to which those components are found in a natural state, or conversely, in an altered or modified state.

*East Branch DuPage River*

Based on QHEI scores, mainstem habitat quality fell mostly in the fair to good ranges, but varied by location (Figure 7). Substrate embeddedness was a common characteristic of the mainstem as riffle or pool embeddedness was recorded at all but one location (EB23/RM 22.0).

Since the modification of the Churchill Woods dam in 2011, QHEI scores within and upstream of the former dam have increased by reflecting the appearance of riffles and increased habitat heterogeneity.

**Figure 7.** Qualitative Habitat Evaluation Index (QHEI) scores for the E. Branch DuPage River in 2007, 2011-12, and 2014 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). The shaded region depicts the range of QHEI scores where habitat quality is marginal and limiting to aquatic life. QHEI scores less than 45 are typical of highly modified habitat.

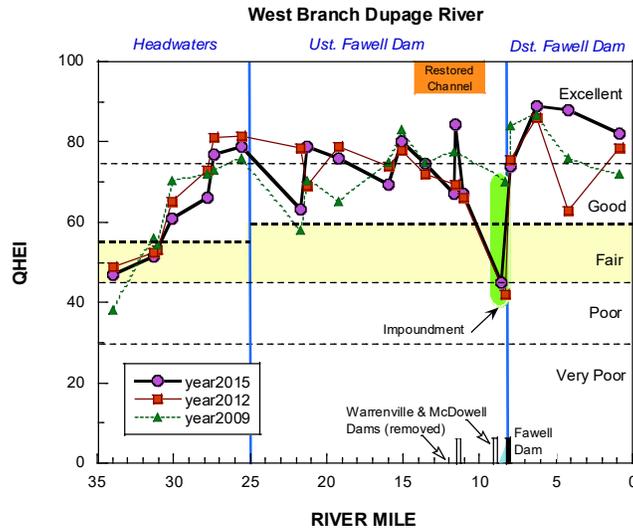


### West Branch DuPage River

Mainstem habitat quality in 2012 was good to excellent throughout most of its length and, with the exception of the extreme headwaters (upstream RM 30.1) and Fawell Dam pool (RM 8.3) (Figure 8).

**Figure 8.**

Qualitative Habitat Evaluation Index (QHEI) scores for the W. Branch DuPage River in 2009, 2012, and 2015. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). The shaded region depicts the range of QHEI scores where habitat quality is marginal and limiting to aquatic life. QHEI scores less than 45 are typical of highly modified habitat



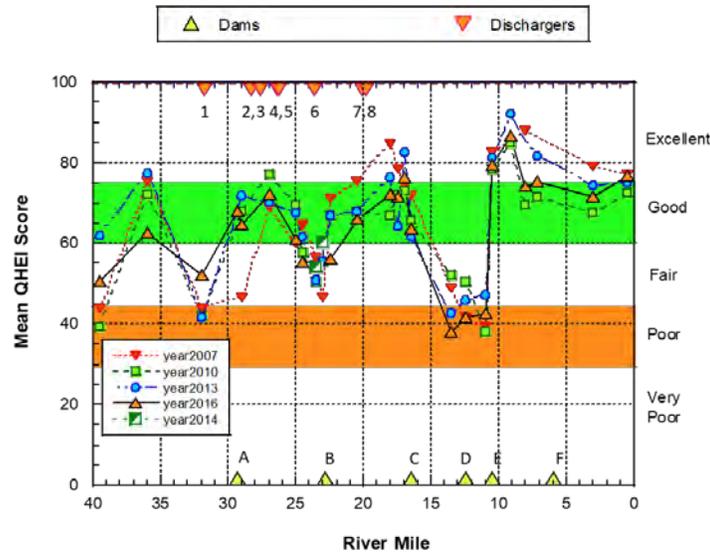
**Salt Creek**

In Salt Creek, most of the sites possessed the types and amounts of habitat features necessary to support aquatic life consistent with the Illinois General Use (Figure 9), with QHEI scores averaging 66.0 (range: 41.5-92.0) in 2013 and 64.3 (range: 38.0-86.5) in 2016. The longitudinal pattern in habitat quality was consistent between all years (2007, 2010, 2013 and 2016) with habitat generally improving in a downstream direction except where influenced by impoundments. Habitat was generally the poorest in the very headwaters and impoundments formed by low head dams. As in 2007 and 2010, the total number of modified quality attributes relative to the total number of good quality attributes at any given site generally did not overwhelm the capacity of a site to support aquatic life in 2013 and 2016, excepting in the impoundments formed by low head dams. The attributes of the QHEI that are most consistently potentially limiting to aquatic life are the embeddedness and siltation attributes with most sites having high silt cover and moderate to extensively embedded substrates. The prevalence of coarse substrate materials indicates the strongly biological potential if delivery of fines to the stream can be controlled.

In the 2016, the Oak Meadows Dam (dam B on Figure 9) was removed in a project sponsored by the Forest Preserve District of DuPage County, DuPage County Stormwater Management, and the DRSCW. Post-project sampling was completed in 2017. Post project QHEI increased at all sites with improvements in substrate, riparian, pool and riffle scores. Mean QHEI at the project location increased 12 points to 69.3 (or 68.5 if we discount SC35A, surveyed for QHEI post project only). All QHEI scores were within the “good” range (>60 QHEI points). The DRSCW is

optimistic its QHEI goal of >70 will be reached as riparian vegetation at the site matures. Post-project monitoring will continue in 2018 and 2019.

**Figure 9.** Qualitative Habitat Evaluation Index (QHEI) scores for Salt Creek plotted by river mile for data from 2007, 2010, 2013, 2014, and 2016. The orange-shaded region depicts the range of QHEI scores where habitat quality is marginal and limiting to aquatic life. QHEI scores less than 45 are typical of highly modified channels. The triangles arrayed along the x-axis in both plots show the locations of low-head dams.



## WATER QUALITY CHEMISTRY

### Methodology

Water column and sediment samples are collected as part of the DRSCW bioassessment programs. The total number of sites sampled is detailed in Table 2. Total number of collected samples by watershed typical for a full assessment by watershed are given in Table 3. The number of samples collected at each site is largely a function of the sites drainage area with the frequency of sampling increasing as drainage size increases (Table 4). Organics sampling is a single sample done at a subset of sites. Sediment sampling is done at a subset of 66 sites using the same procedures as IEPA.

The parameters sampled for are included in Table 6 and can be grouped into demand parameters, nutrients, demand, metals and organics. Locations of organic and sediment sites are shown on Figure 2. All sampling occurs between June and October of the sample year. The Standard Operating Procedure for water quality sampling can be found at <http://drscw.org/wp/bioassessment/>.

**Table 3.** Total number of samples by watershed typical for a full assessment by watershed

Watershed	Approximate # Sites	Demand Samples	Nutrients Samples	Metals Samples	Organics Samples
Salt Creek	51	280	280	149	16
West Branch DR	44	218	218	110	18
East Branch DR	36	196	196	100	11

**Table 4.** Approximate distribution of sample numbers by drainage area across the monitoring area.

Drainage Area and site numbers	>100 sq mi (n=12)	>75 sq mi (n=25)	>38 sq mi (n=11)	>19 sq mi (n=11)	>8 sq mi (n=15)	>5 sq mi (n=24)	>2 sq mi (n= 46)
Mean # Samples demand /nutrients	12	9	6	6	4	4	2
Mean # Samples metals	6	6	4	4	2	2	0

**Table 6.** Water Quality and sediment Parameters sampled as part of the DRSCW Bioassessment Program.

Water Quality Parameters	Sediment Parameters
<b>Demand Parameters</b> 5 Day BOD Chloride Conductivity Dissolved Oxygen pH Temperature Total Dissolved Solids Total Suspended Solids  <b>Nutrients</b> Ammonia Nitrogen/Nitrate Nitrogen – Total Kjeldahl Phosphorus, Total  <b>Metals</b> Cadmium Calcium Copper Iron Lead Magnesium Zinc  <b>Organics – Water</b> PCBS Pesticides Semivolatile Organics Volatile Organics	<b>Sediment Metals</b> Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Nickel Potassium Silver Zinc  <b>Sediment Organics</b> Organochlorine Pesticides PCBS Percent Moisture Semivolatile Organics Volatile Organic Compounds

Results

The discussion presented below focuses on the constituents listed in the MS4 permit: total suspended solids, total nitrogen, total phosphorus, fecal coliform, chlorides, and oil and grease. Total nitrogen is presented as ammonia, nitrate, and total kjeldahl nitrogen (TKN). Prior to the 2016 sampling period, fecal coliform and oil and grease sampling was not conducted. Oil and grease sampling was added to the bioassessment sampling for Salt Creek in 2016. Fecal coliform and oil and grease sampling will be added to all future bioassessment sampling for the East Branch DuPage River (2019), West Branch DuPage River (2020), and Salt Creek (2021) ensuring that each watershed will be sampled for that parameter during the effective period of the ILR40 permit.

Detailed analysis and results for the other water quality constituents is located at <http://drscw.org/wp/bioassessment/>.

#### *East Branch DuPage River*

East Branch mainstem flows are effluent dominated during the late summer-early fall months. As such, chemical water quality is highly influenced by the concentration and composition of chemical constituents in WWTP effluents (Figures 10-13). The results in 2014 were consistent with 2011 during low flow periods with respect to observing no exceedances of Illinois water quality criteria for regulated parameters (i.e. TSS, NH<sub>3</sub>-N).

#### *West Branch DuPage River*

Stream flow in the West Branch DuPage River is effluent dominated during summer months. As such, its water quality is highly influenced by the concentrations and composition of chemical constituents in the effluent as well as runoff from the urban and developed land cover in the watershed. Water quality sampling in 2012 during the summer low-flow periods suggest that the quality of treated effluent, with respect to regulated parameters (i.e., cBOD<sub>5</sub>, TSS, NH<sub>3</sub>), was generally good. Effluents did not result directly in exceedances of water quality standards for these parameters. However, increasingly elevated nutrient levels and their attendant influence on mainstem D.O. regimes remain problematic.

#### *Salt Creek*

Salt Creek drains a highly urbanized landscape with a high population density. The increase in Pollutants associated with urbanized landscapes have been documented. Given the high population density in the watershed, treated municipal effluent comprises a significant fraction of the total flow in Salt Creek and strongly influences water quality, especially with respect to nitrogen and phosphorus. The results in 2016 were similar to those in 2013 and 2010.

**Figure 10.** Concentrations of total suspended solids (top panel) and TKN (lower panel) from E. Branch DuPage River samples in 2007, 2011 and 2014 in relation to municipal WWTP discharges. Bars along the x-

axis depict mainstem dams or weirs (black bars are dams that impede fish passage). Red dashed lines shows the upper limits of concentrations typical for relatively unpolluted waters for TSS (McNeeley et al. 1979). Orange dashed line in TSS plot is the Ohio reference threshold for headwater (HW) and wadeable (WD) streams. For TKN, the orange dashed line represents the IPS threshold (1.0 mg/l). IPS is a tool developed by the DRSCW and MBI.

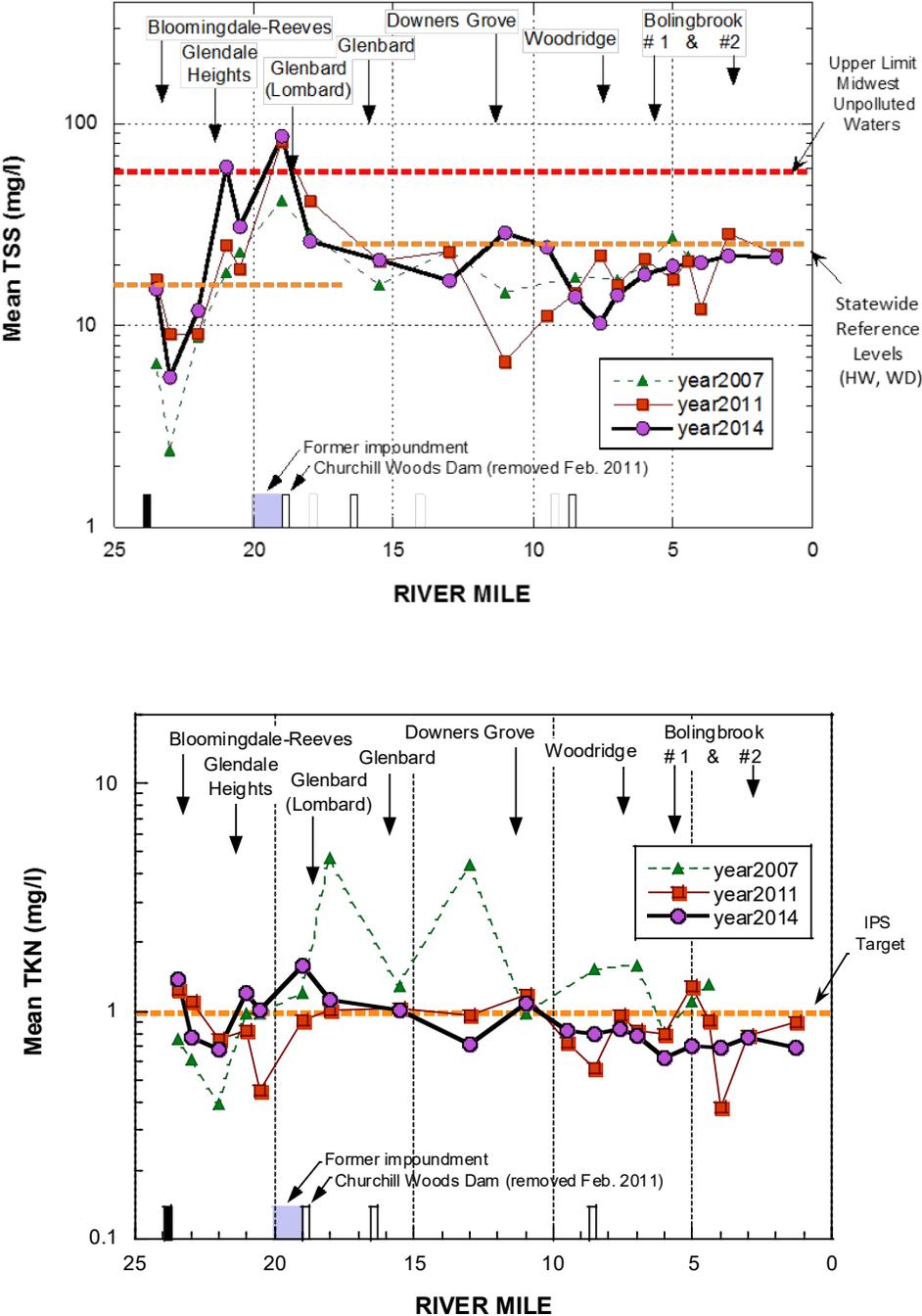
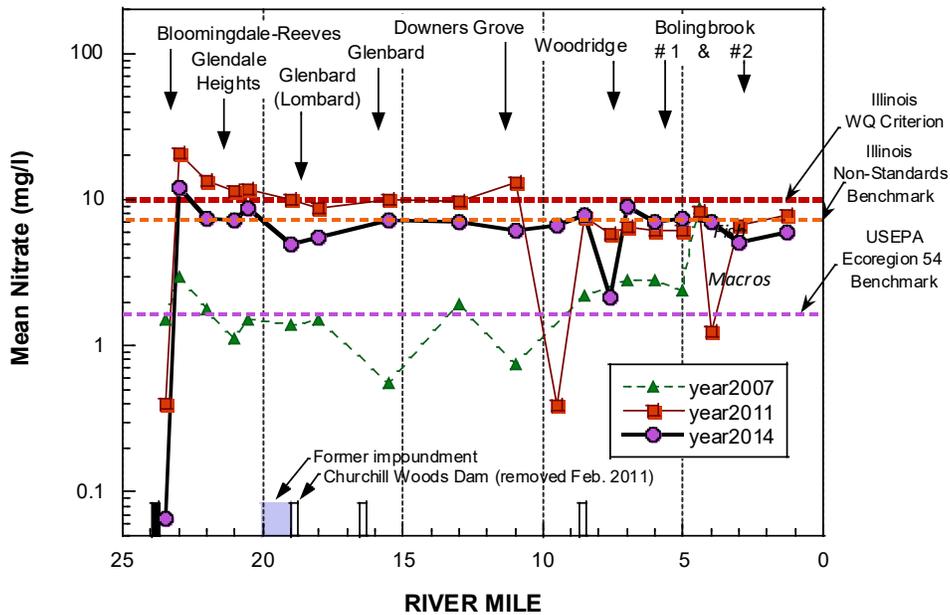
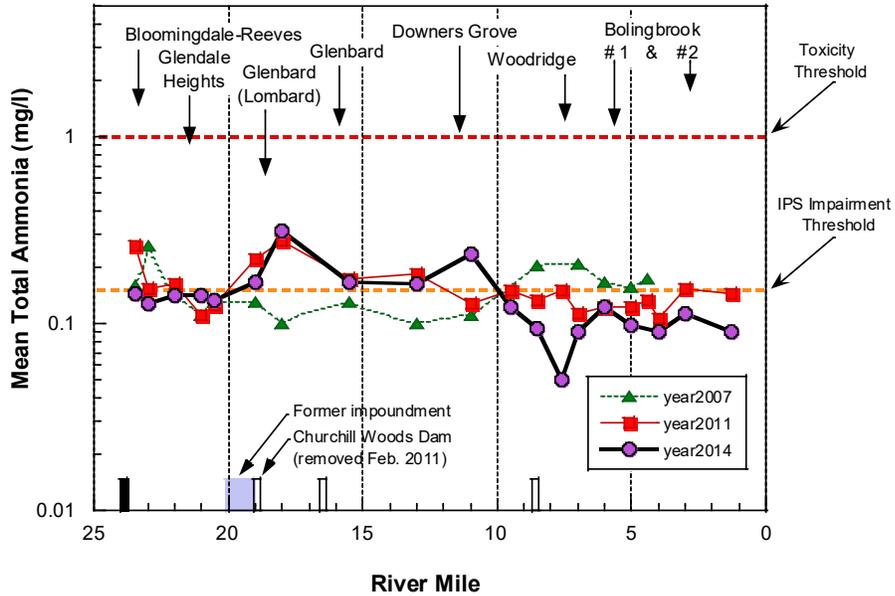


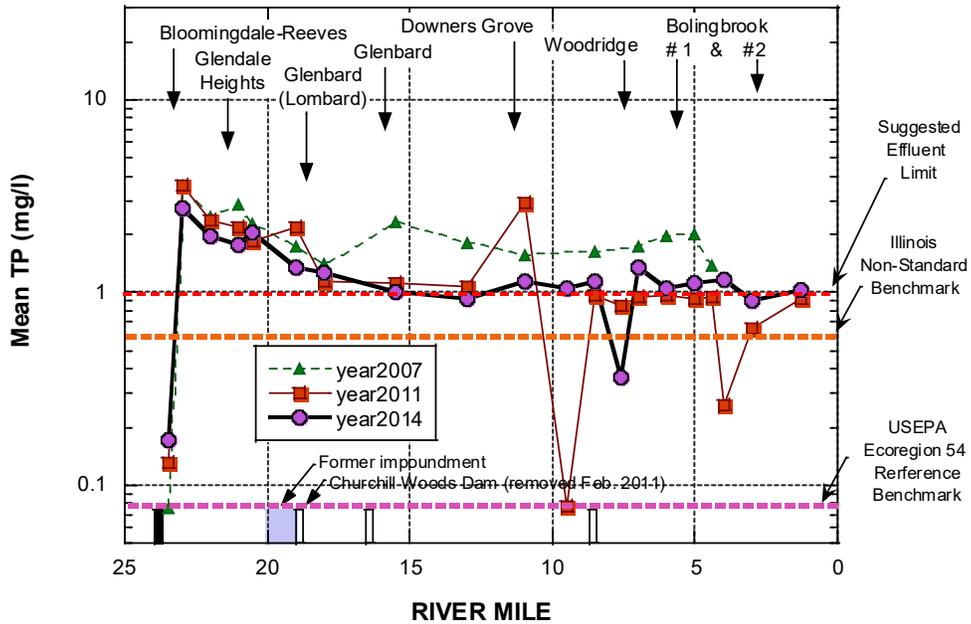
Figure 11. Concentrations of ammonia-N (top panel) and nitrate+nitrite-N (lower panel) from E. Branch

DuPage River samples in 2007, 2011 and 2014 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (only black bars for dams that impede fish passage). For ammonia-N, the red dashed line (1.0 mg/l) represents a threshold concentration beyond which acute toxicity is likely; the orange dashed line (0.15 mg/l) is correlated with impaired biota in the IPS study. For nitrate+nitrite-N, orange dashed lines represent target concentrations for ecoregion 54 (1.8 mg/l) and the Illinois EPA non-standard based criteria (7.8 mg/l). The red dashed line is the Illinois water quality criterion for public water supplies (10 mg/l). The red dashed line is the Illinois water quality criterion for public water supplies (10 mg/l).



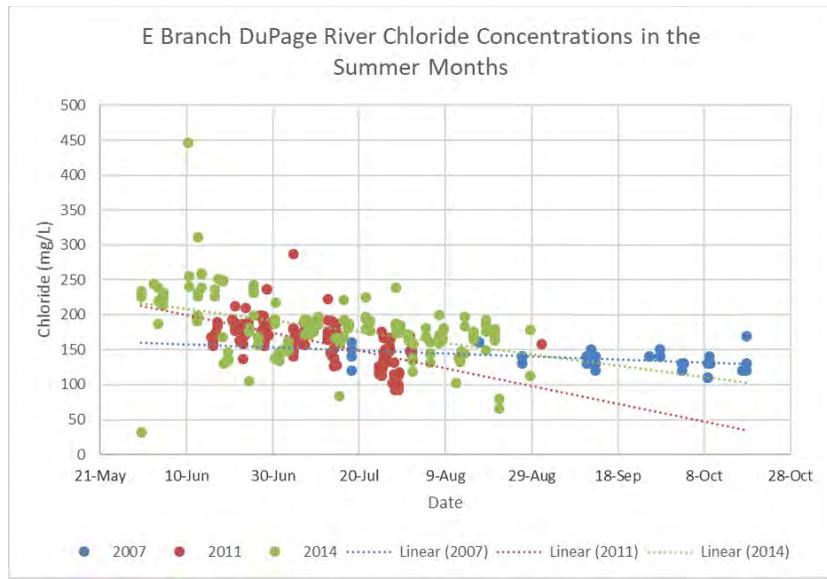
**Figure 12.**

Concentrations total phosphorus from E. Branch DuPage River samples in 2007, 2011 and 2014 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). For phosphorus, orange dashed lines represent target concentrations for ecoregion 54 (0.07 mg/l) and the Illinois EPA non-standard based criterion (0.61 mg/l). The 1.0 mg/l dashed red line is the suggested effluent limit. The 1.0 mg/l dashed red line is the suggested effluent limit.



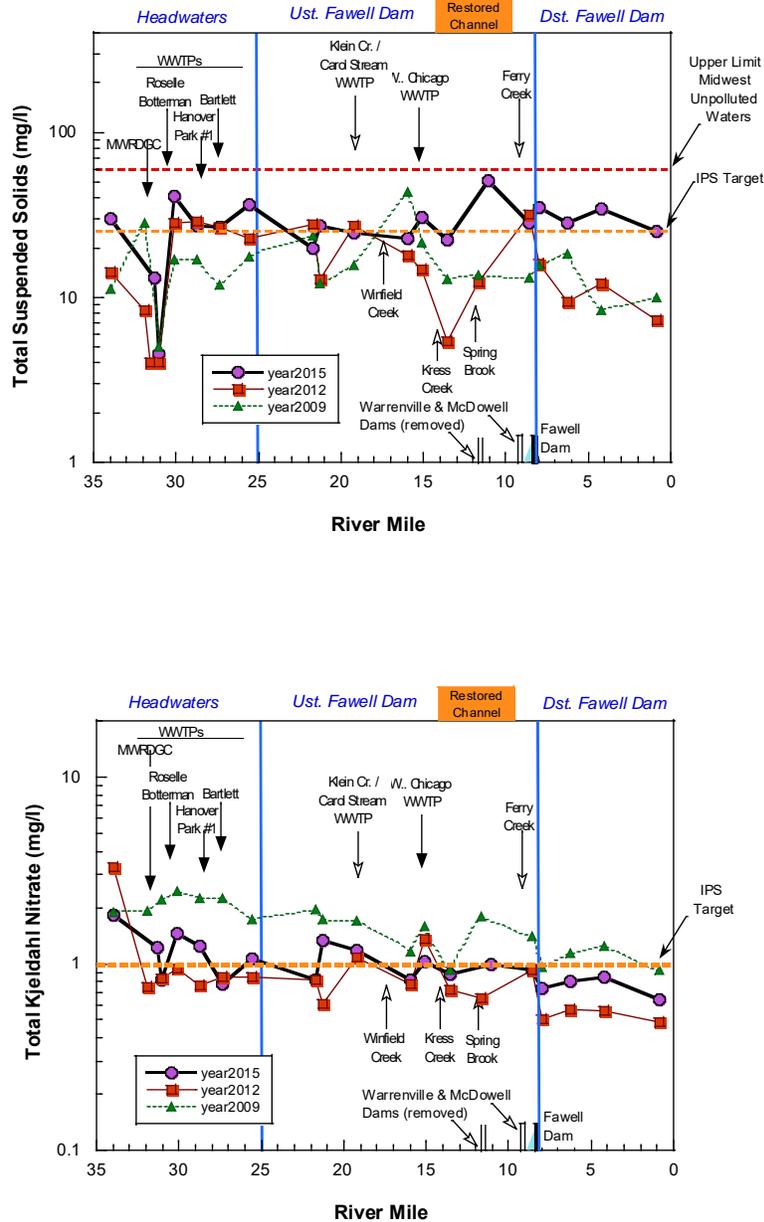
**Figure 13.**

Chloride concentrations from the East Branch DuPage River in the summer of 2007, 2011 and 2014.



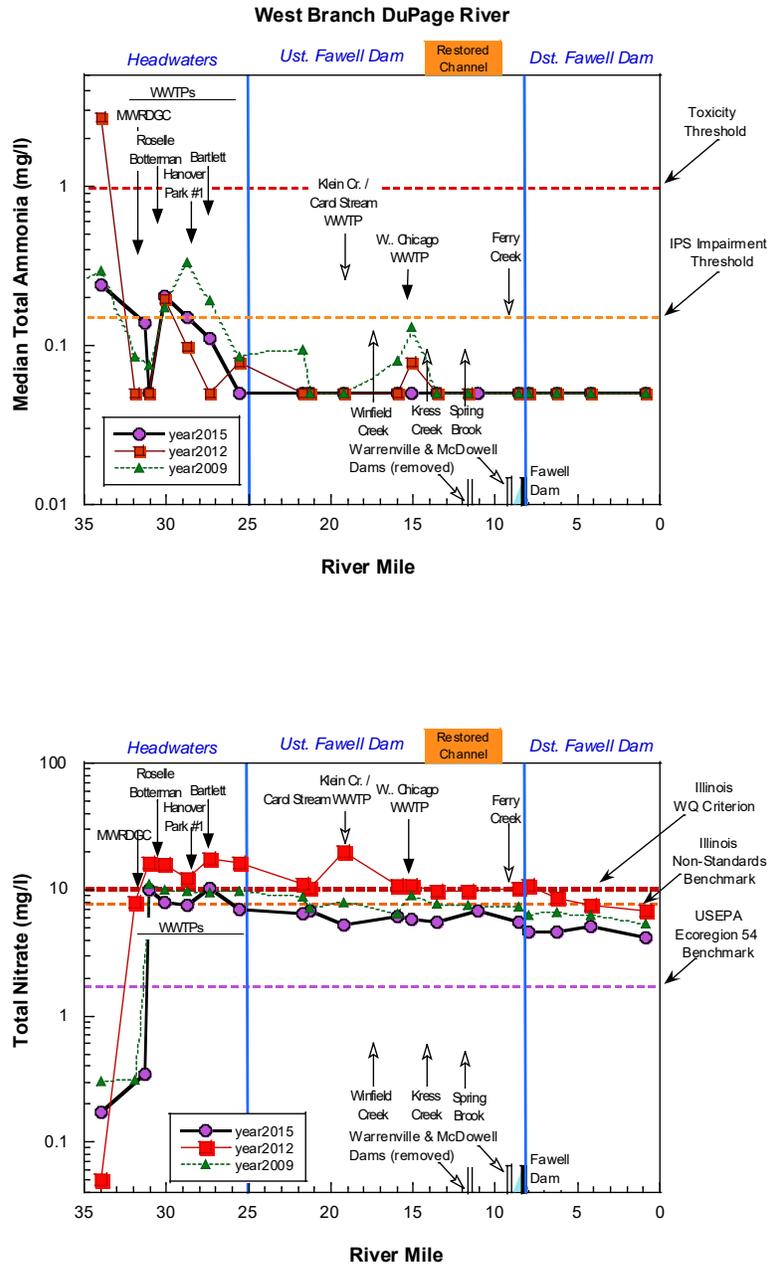
**Figure 14.**

Concentrations of total suspended solids (top panel) and TKN (lower panel) from W. Branch DuPage River samples in 2008, 2012 and 2015 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). Red dashed lines shows the upper limits of concentrations typical for relatively unpolluted waters for TSS (McNeeley et al. 1979). Orange dashed line in TSS plot is the Ohio reference threshold for headwater (HW) and wadeable (WD) streams. For TKN, the orange dashed line represents the IPS threshold (1.0 mg/l). IPS is a tool developed by the DRSCW and MBI.



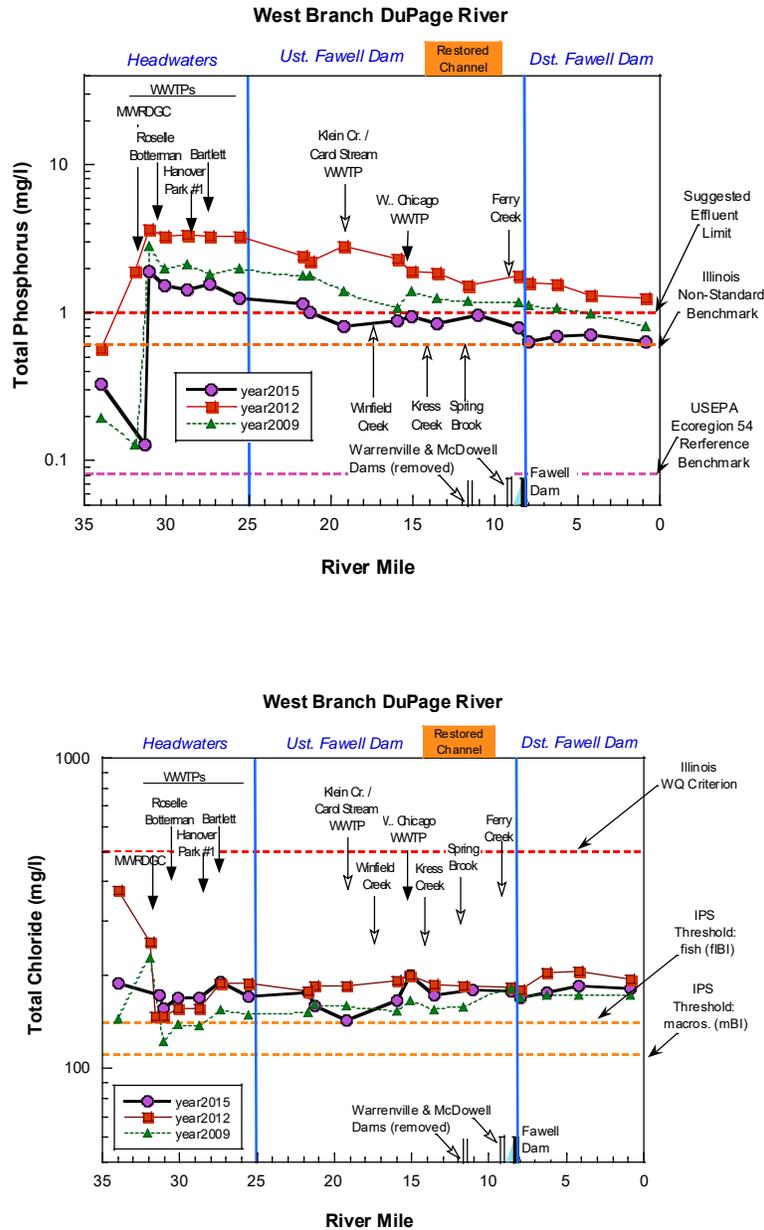
**Figure 15.**

Concentrations of ammonia-N (top panel) and total nitrate (lower panel) from W. Branch DuPage River samples in 2008, 2012 and 2015 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (only black bars for dams that impede fish passage). For ammonia-N, the red dashed line (1.0 mg/l) represents a threshold concentration beyond which acute toxicity is likely; the orange dashed line (0.15 mg/l) is correlated with impaired biota in the IPS study. For total nitrate, red line represents the Illinois Water Quality Criterion, orange dashed line represents the Illinois Non-Standards Benchmark, and purple line represents the US Ecoregion 54 Benchmark.



**Figure 16.**

Concentrations total phosphorus (top panel) and chloride (lower panel) from W. Branch DuPage River samples in 2008, 2012 and 2015 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). For phosphorus, orange dashed lines represent target concentrations for ecoregion 54 (0.07 mg/l) and the Illinois EPA non-standard based criterion (0.61 mg/l). The 1.0 mg/l dashed red line is the suggested effluent limit. For chloride, red dashed line represents the Illinois Water Quality Criterion (500 mg/L) and orange dashed lines represent the IPS threshold for fish and macroinvertebrates. IPS is a tool developed by the DRSCW and MBI.



**Figure 17.**

Concentrations of total suspended solids (top panel) and TKN (lower panel) from Salt Creek samples in 2007, 2010, 2013, and 2016 in relation to municipal WWTP discharges. Yellow triangles along the x-axis depict mainstem dams or weirs. Orange dashed lines shows the upper limits of concentrations typical for relatively unpolluted waters for TSS (McNeeley et al. 1979). Blue dashed line in TSS plot is the Ohio reference threshold for headwater (HW) and wadeable (WD) streams. For TKN, orange dashed line represents the IPS threshold (1.0 mg/l). IPS is a tool developed by the DRSCW and MBI.

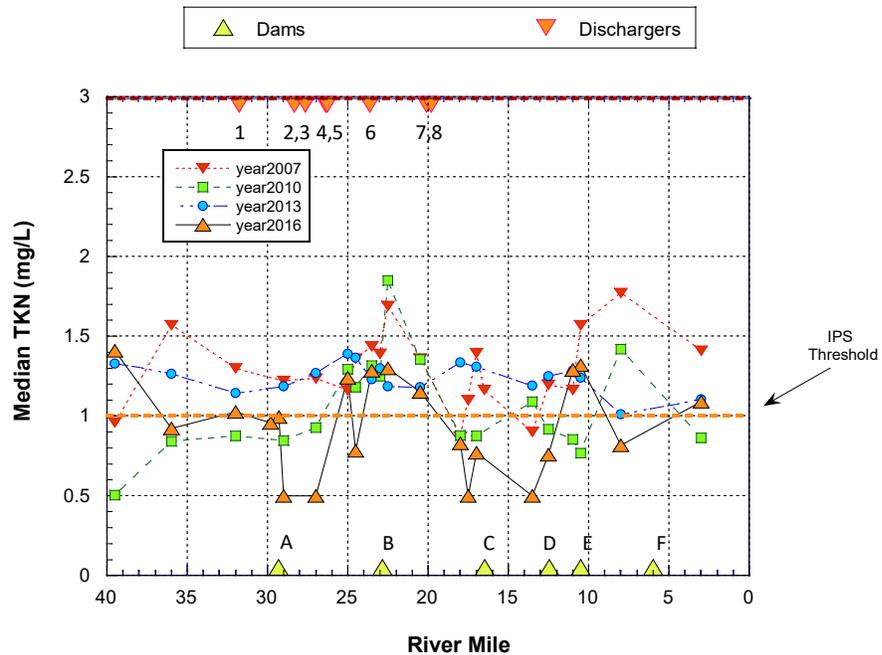
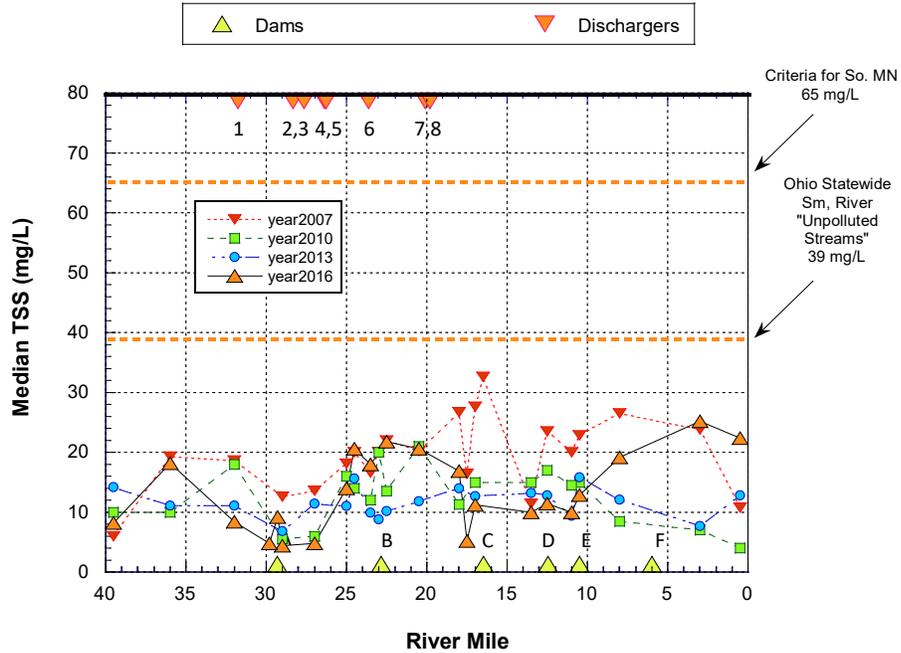
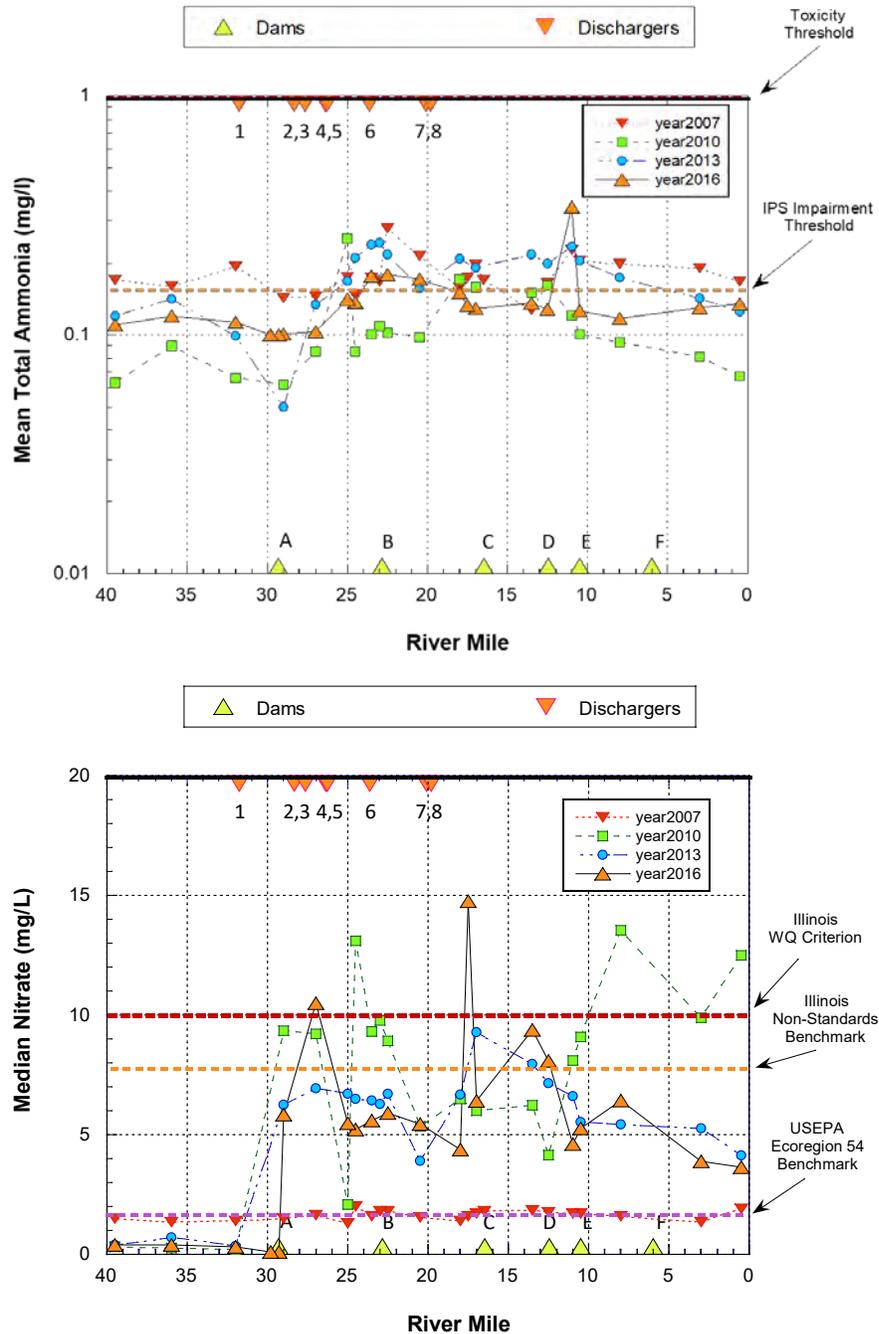


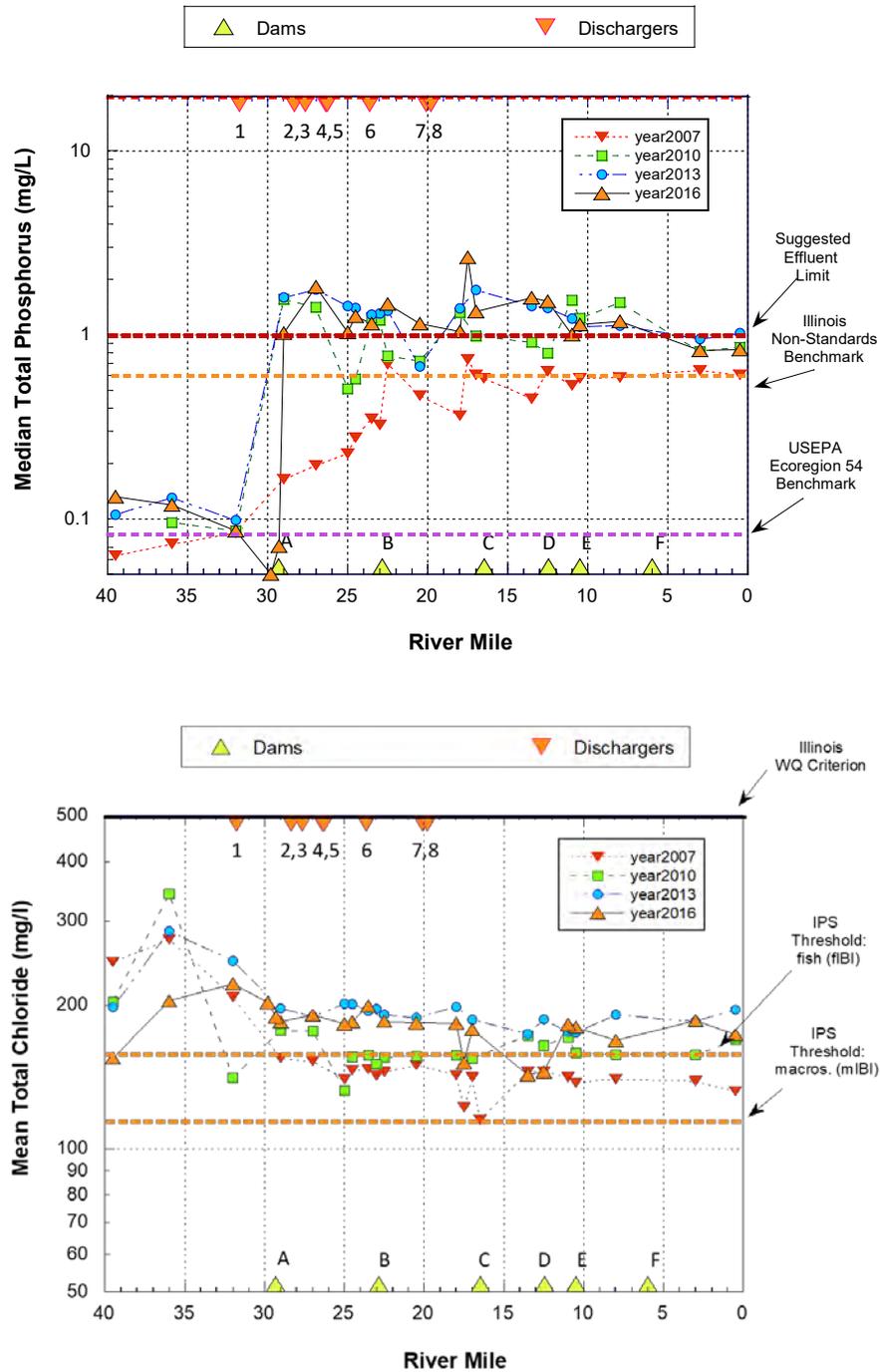
Figure 18.

Concentrations of ammonia-N (top panel) and total nitrate (lower panel) from Salt Creek samples in 2007, 2010, 2013, and 2016 in relation to municipal WWTP discharges. Yellow triangles along the x-axis depict mainstem dams or weirs. For ammonia-N, the blue dashed line (1.0 mg/l) represents a threshold concentration beyond which acute toxicity is likely; the orange dashed line (0.15 mg/l) is correlated with impaired biota in the IPS study. For total nitrate, red line represents the Illinois Water Quality Criterion, orange dashed line represents the Illinois Non-Standards Benchmark, and purple line represents the US Ecoregion 54 Benchmark.



**Figure 19.**

Concentrations total phosphorus (top panel) and chloride (lower panel) from Salt Creek samples in 2007, 2010, 2013, and 2016 in relation to municipal WWTP discharges. Yellow triangles along the x-axis depict mainstem dams or weirs. For phosphorus, purple dashed lines represent target concentrations for ecoregion 54 (0.07 mg/l) and orange dashed line represents the Illinois EPA non-standard based criterion (0.61 mg/l). The 1.0 mg/l dashed red line is the suggested effluent limit. For chloride, red dashed line represents the Illinois Water Quality Criterion (500 mg/L) and orange dashed lines represent the IPS threshold for fish and macroinvertebrates. IPS is a tool developed by the DRSCW and MBI.



In 2016, samples for Fat, Oil and Grease (FOG) was collected at six (6) sites on the mainstem Salt Creek and one (1) site on Addison Creek. The results are summarized in Table 7.

**Table 7.** Concentrations of Fat, Oil and Grease in 2016 in the Salt Creek watershed.

Site Number	Latitude	Longitude	River Mile	Result (mg/L)
<b>Salt Creek</b>				
SC44	42.01197	-88.00092	29.3	Non detect
SC41	41.9703	-87.98817	25.0	Non detect
SC23	41.93694	-87.98423	22.5	1.63
SC37	41.88378	-87.96054	17.5	Non detect
SC49	41.82576	-87.90004	8.0	Non detect
SC29	41.8183	-87.83371	0.5	Non detect
<b>Addison Creek</b>				
SC-28	41.86116	-87.86774	1.5	2.47

### Sediment Chemistry Results

Detailed analysis and results for sediment chemistry is located at <http://drscw.org/wp/bioassessment/>.

### **DISSOLVED OXYGEN (DO) MONITORING**

#### Background and Methodology

The Illinois Environmental Protection Agency (IEPA) report, Illinois 2004 Section 303(d) List, listed dissolved oxygen (DO) as a potential impairment in Salt Creek, and the East and West Branches of the DuPage River. The report suggested that the DO levels in selected reaches of these waterways might periodically fall to levels below those required by healthy aquatic communities.

All rivers and creeks in DuPage County are classified as General Use Waters. The present water quality standards for dissolved oxygen in General Use Waters is:

1. During the period of March through July
  - a. 5.0 mg/L at any time; and
  - b. 6.0 mg/L as a daily mean averaged over 7 days.
  
2. During the period of August through February,
  - a. 3.5 mg/L at any time;
  - b. 4.0 mg/L as a daily minimum averaged over 7 days; and
  - c. 5.5 mg/L as a daily mean averaged over 30 days.

Following listing on the 303 (d) list three TMDLs were prepared by the IEPA for Salt Creek and the East Branch of the DuPage River. In response to the TMDLs, the DRSCW committed to develop and manage a continuous long-term DO monitoring plan for the project area in order to assess the nature and extent of the DO impairment and to allow the design of remedial projects. The continuous DO data is also used to assess the impact of DO improvement projects such as the Churchill Woods and Oak Meadow dam removals.

Typically, the continuous DO monitoring project includes two to three (2-3) sites on the West Branch DuPage River, four to five (4-5) sites of the East Branch DuPage River, and three to four (3-4) sites on Salt Creek. The program began in 2006 and data has been collected each year since. Each site is equipped with a HydroLab DS 5X which collects data on DO, pH, conductivity and water temperature. Stations have a sample interval of one hour and collect data from June through to October (the seasonal period recognized as containing the lowest annual levels of stream DO). The continuous DO monitoring program functions under a quality assurance plan agreed on with the Illinois Environmental Protection Agency (<http://drscw.org/wp/dissolved-oxygen/>). Details on the site location are included in Table 1 and site locations are included on Map 5.

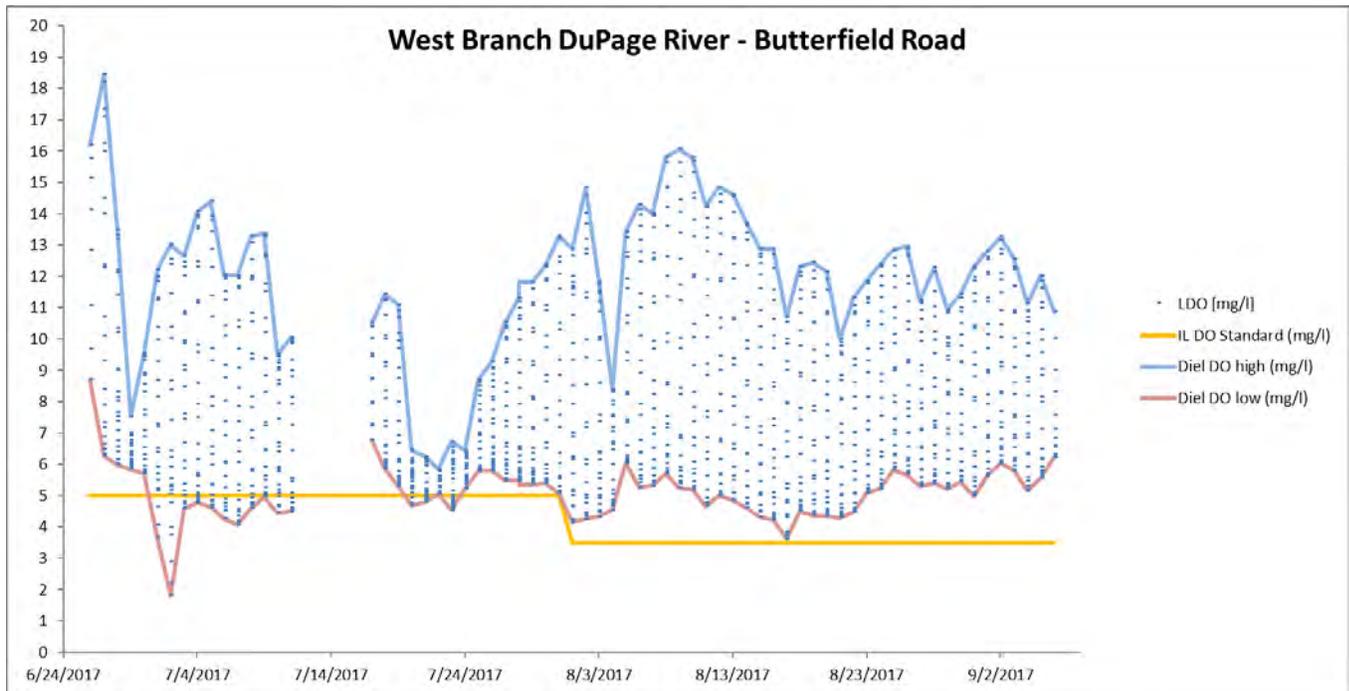
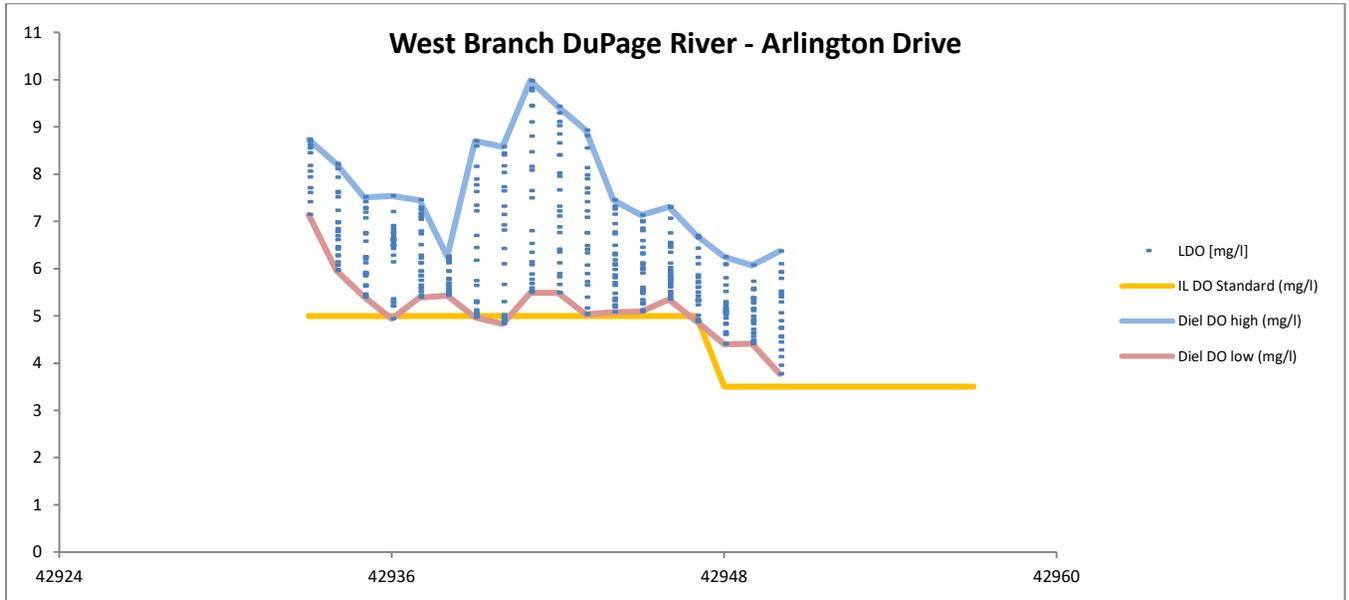
**Table 5.** Continuous DO monitoring locations in the DRSCW watersheds

Site ID	Stream Name	River Mile	Latitude	Longitude	Location
WBAD	W. Br. DuPage R.	29.9	41.9750	-88.1386	Arlington Drive
WBBR	W. Br. DuPage R.	11.7	41.825268	-88.179456	Butterfield Road
WBWD	W. Br. DuPage R.	11.1	41.82027	-88.17212	Downstream of Warrenville Grove Dam
EBAR	E. Br. DuPage R.	23.0	41.935171	-88.05843	Army Trail Road
EBCB	E. Br. DuPage R.	18.8	41.88510	-88.04110	Former Churchill Woods pool (Crescent Blvd)
EBHL	E. Br. DuPage R.	14.0	41.82570	-88.05316	Hidden Lake Preserve
EBHR	E. Br. DuPage R.	8.5	41.76800	-88.07160	Upstream Hobson Rd
EBWL	E. Br. DuPage R.	4.0	41.71230	-88.09160	Downstream of 2nd mine discharge
SCOM			41.941279	-87.983363	Oak Meadows Golf Course upstream of former Dam
SCBR	Salt Creek	16.1	41.864686	-87.95073	Butterfield Road
SCFW	Salt Creek	11.1	41.825493	-87.93158	Fullersburg Woods upstream of Dam

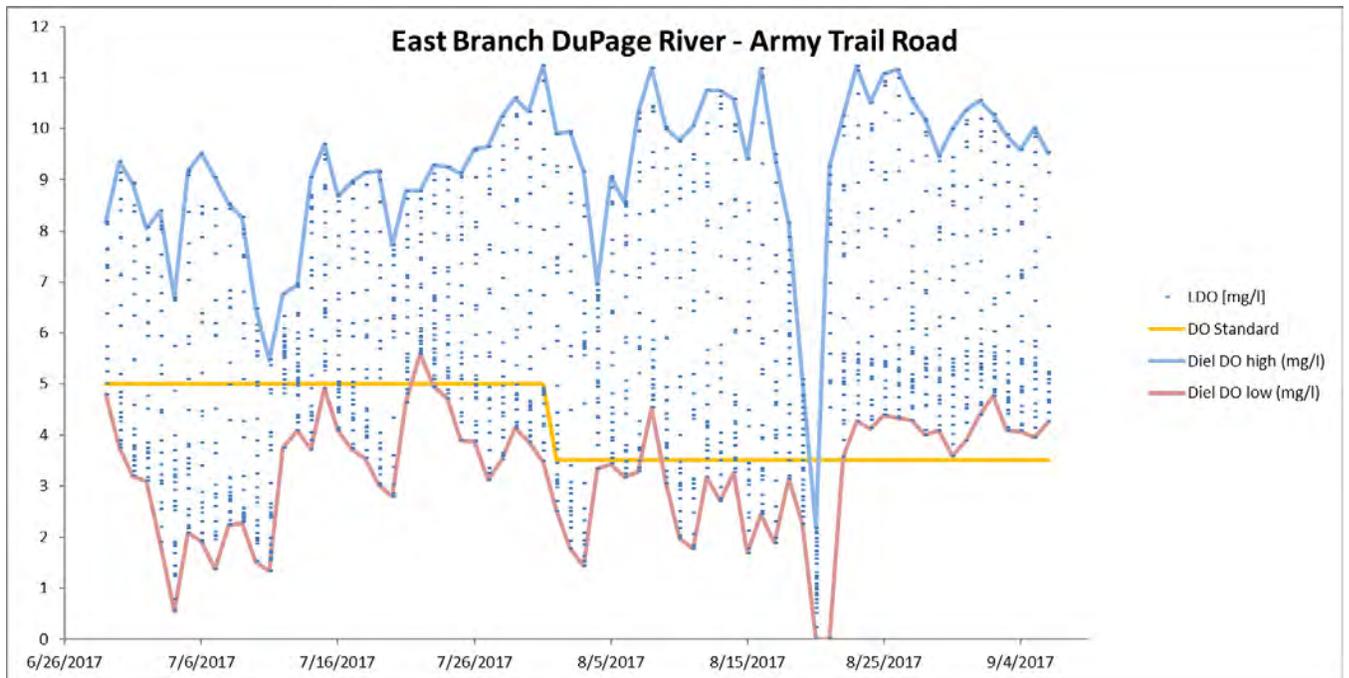
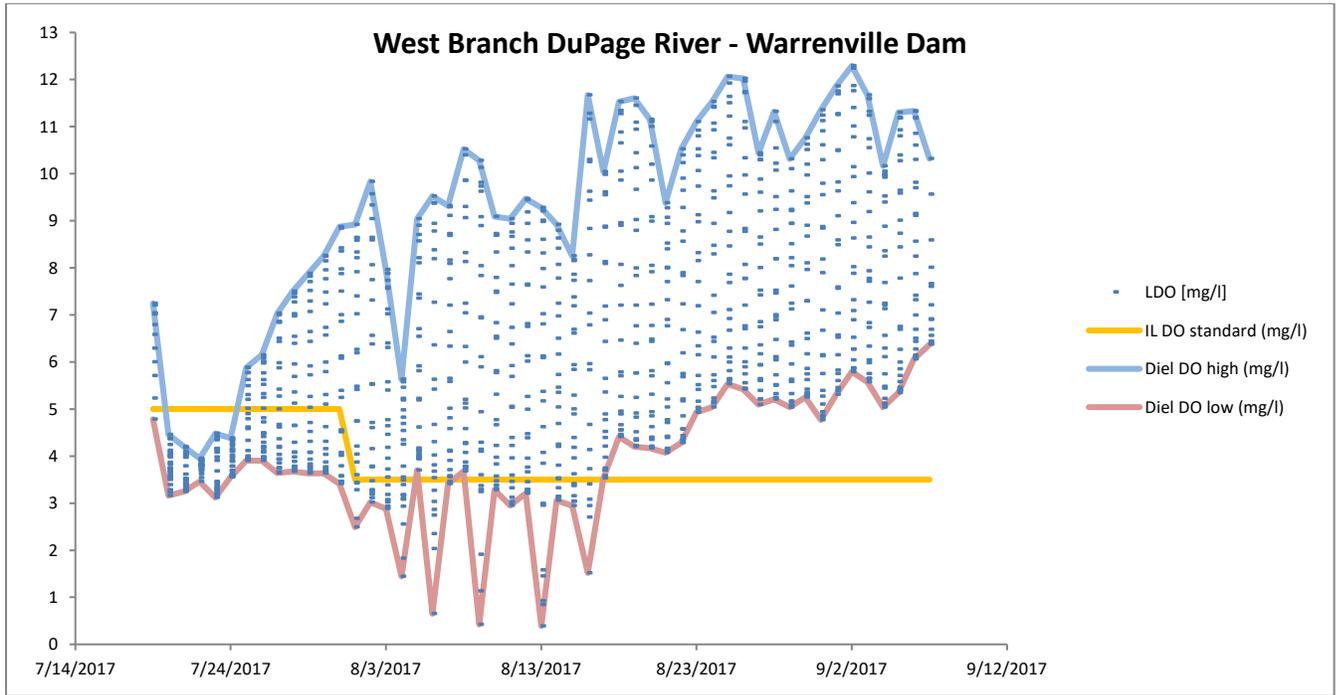
### Results

Results of the continuous DO monitoring conducted in the summer of 2017 is included in Figures 20-24.

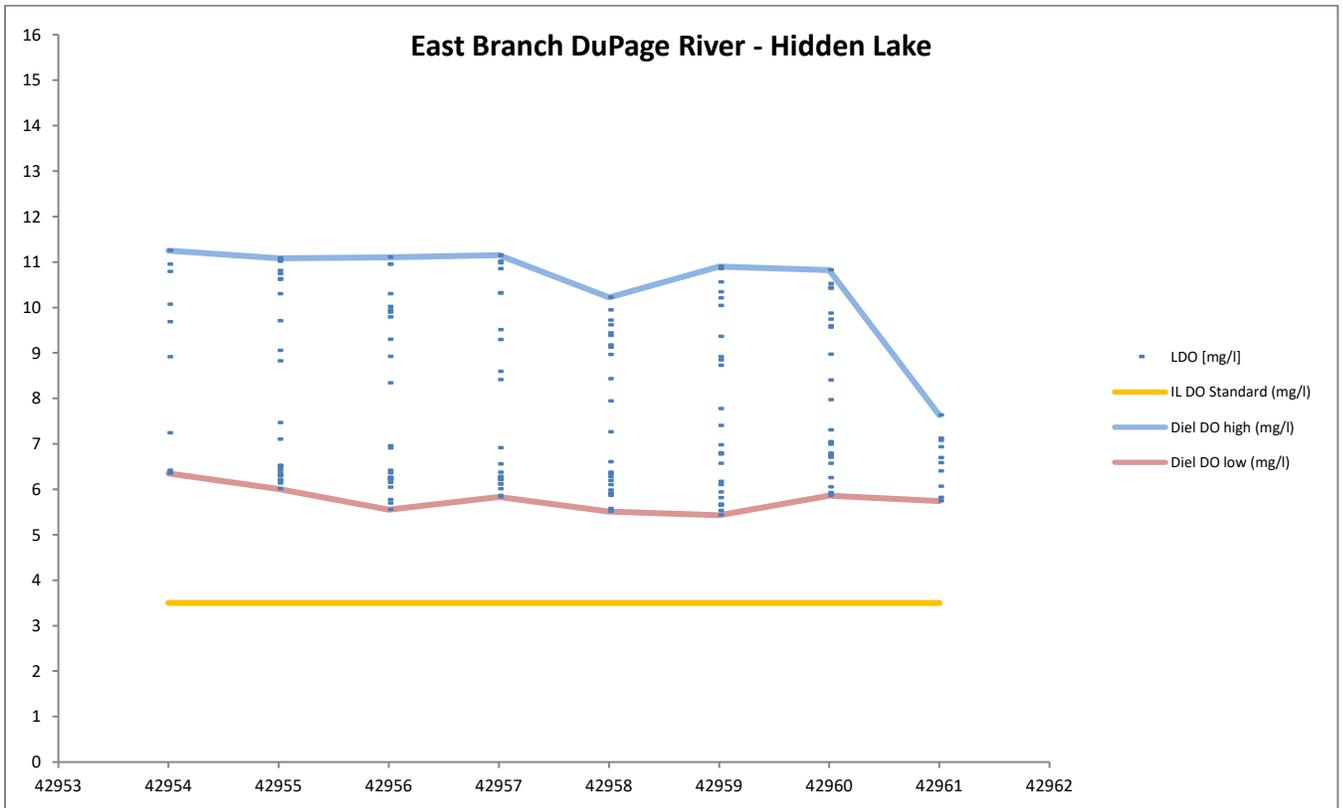
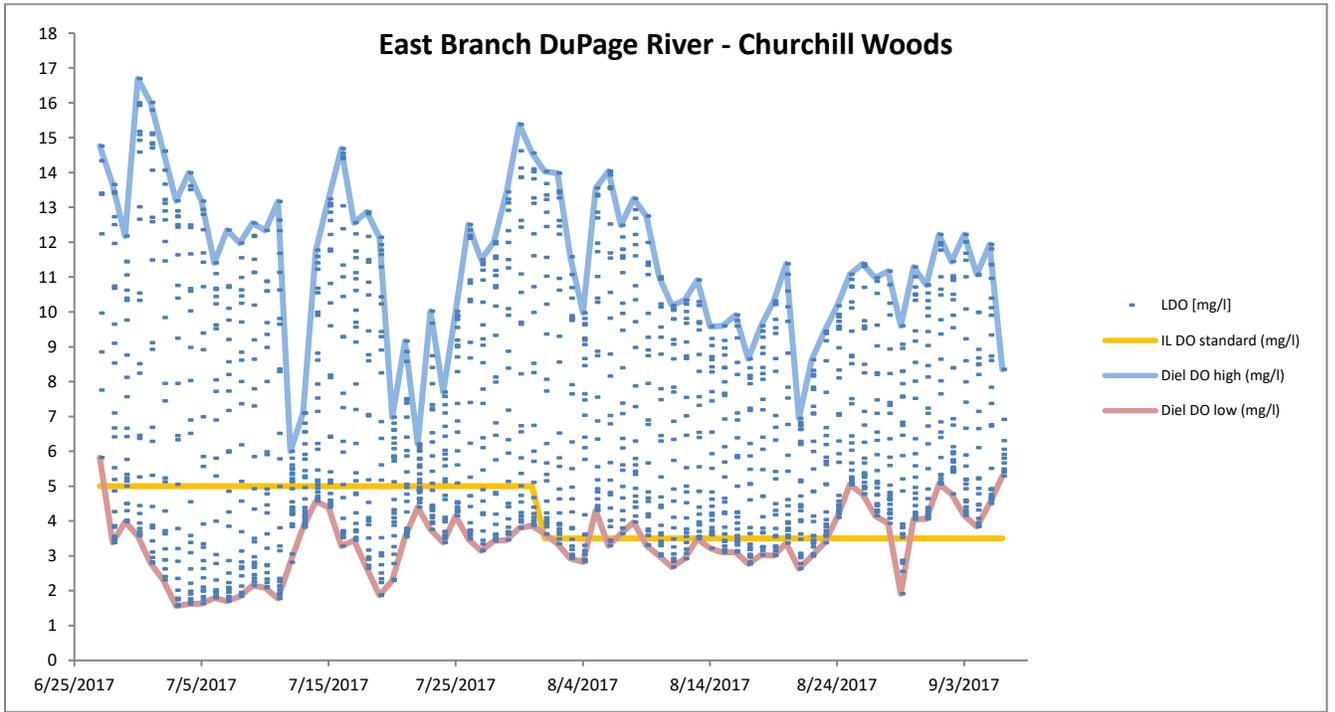
**Figure 20.** Dissolved Oxygen plots for West Branch DuPage River sites WBAD (top panel) and WBBR (lower panel).



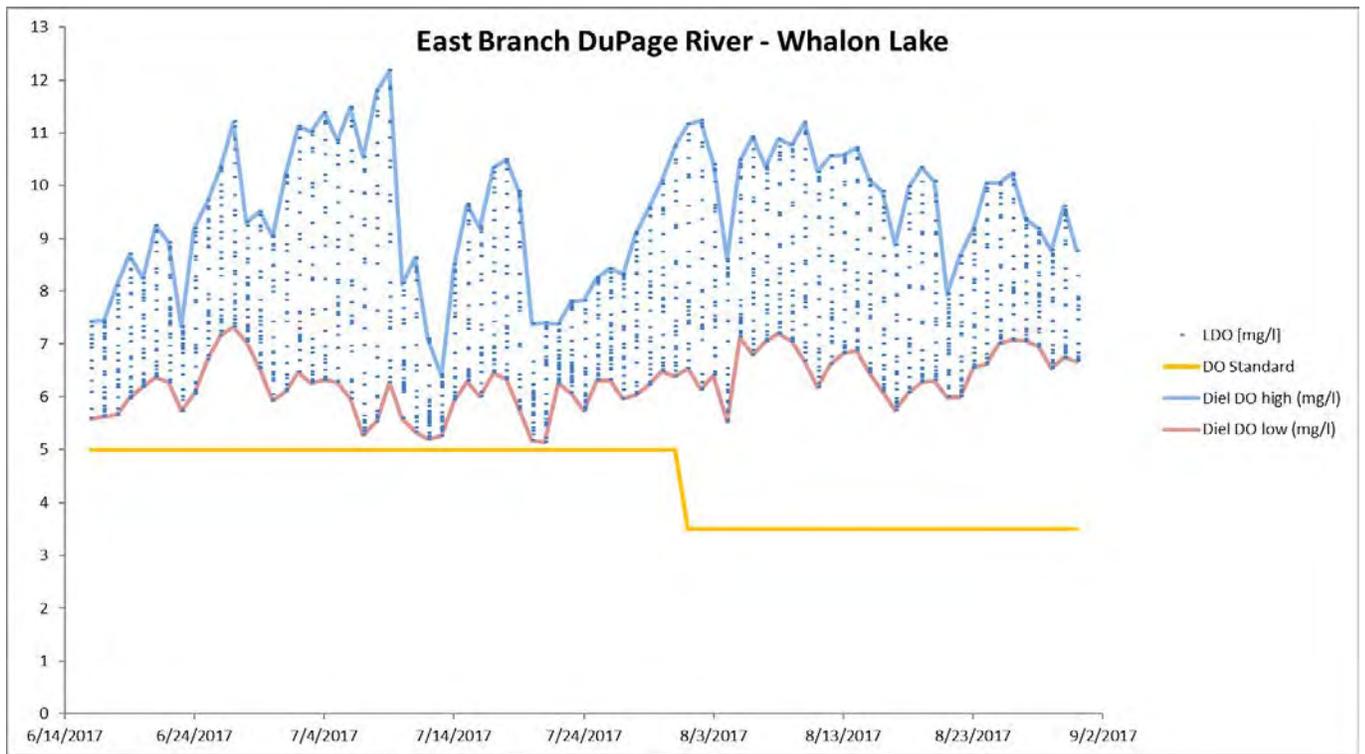
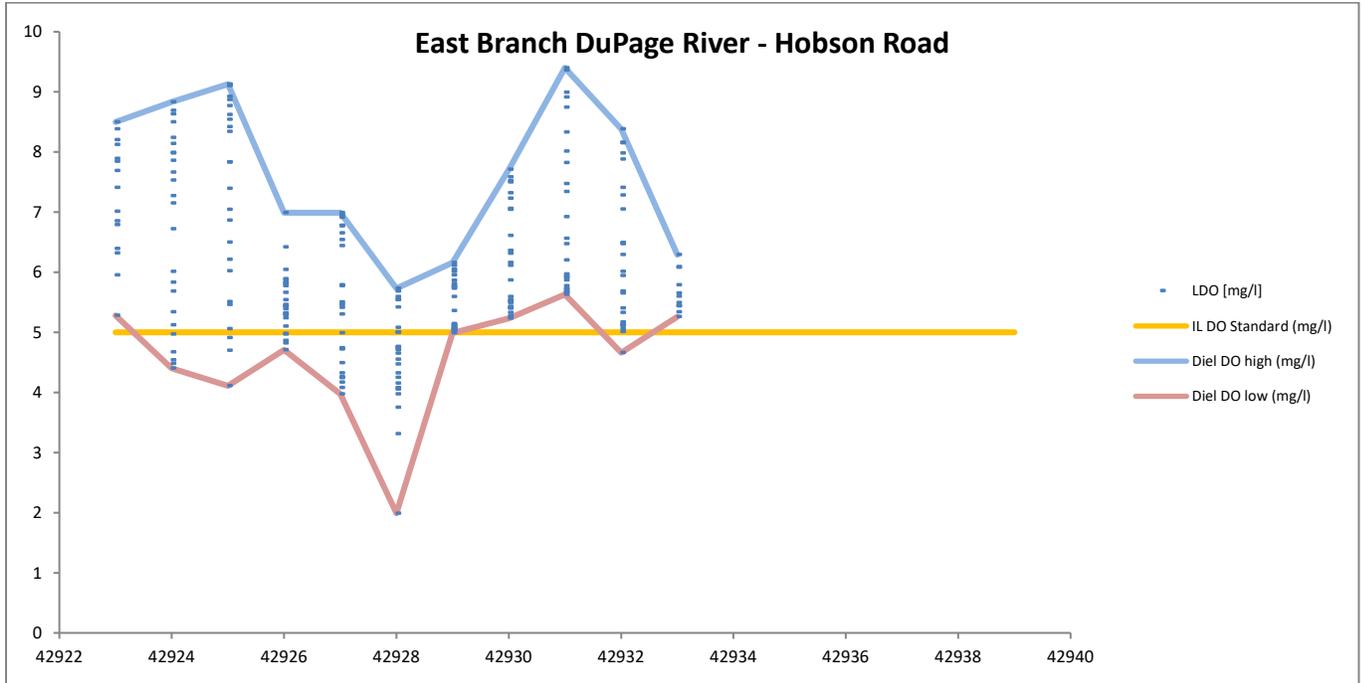
**Figure 21.** Dissolved Oxygen plots for West Branch DuPage River sites WBWD (top panel) and East Branch DuPage River sites EBAR (lower panel).



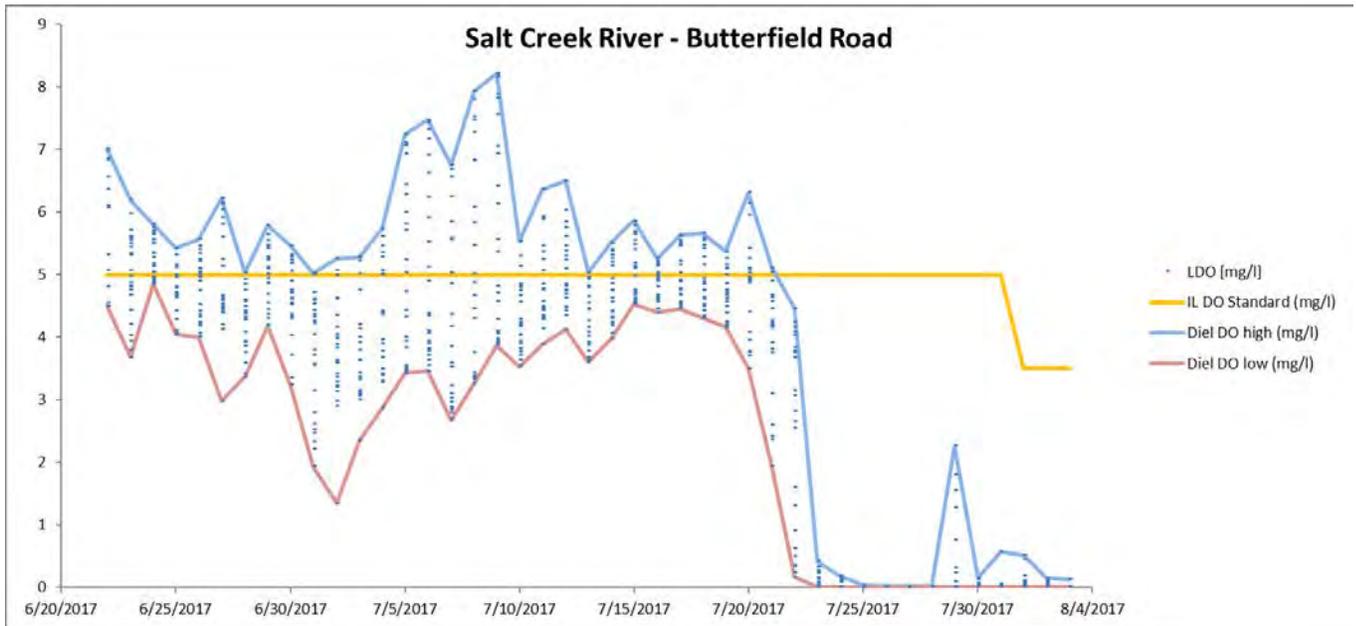
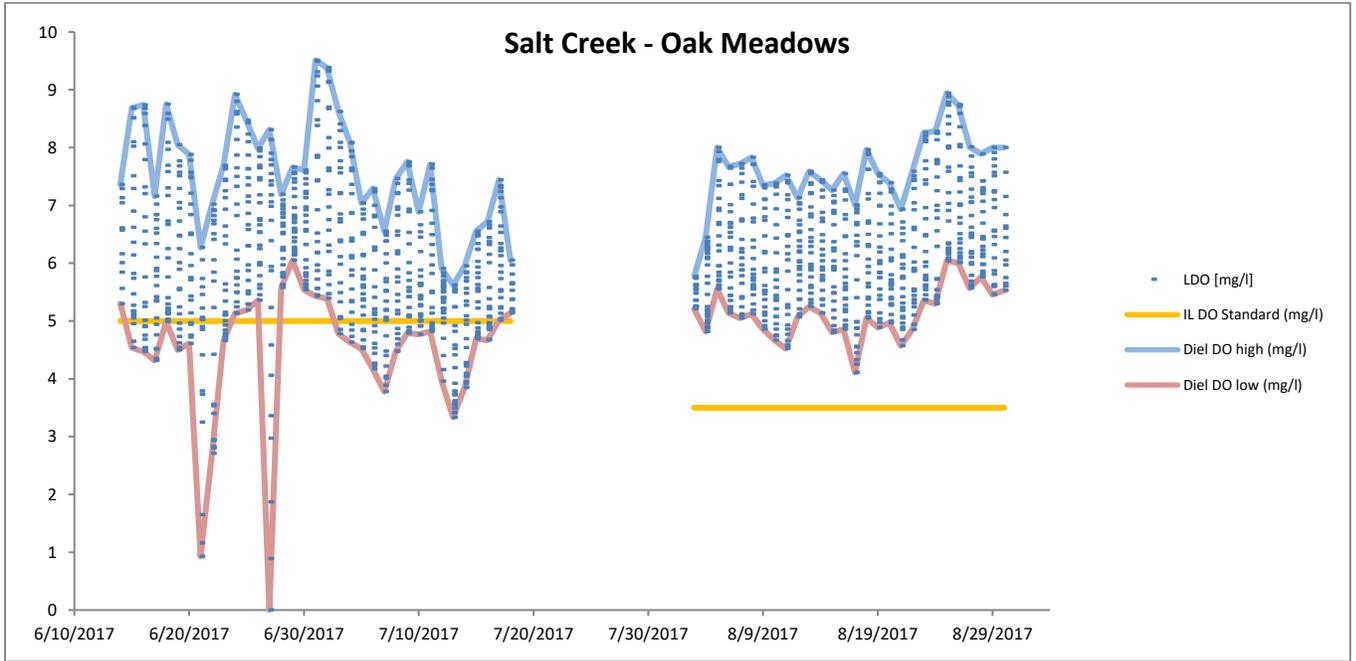
**Figure 22.** Dissolved Oxygen plots for East Branch DuPage River sites EBCB (top panel) and EBHL (lower panel).



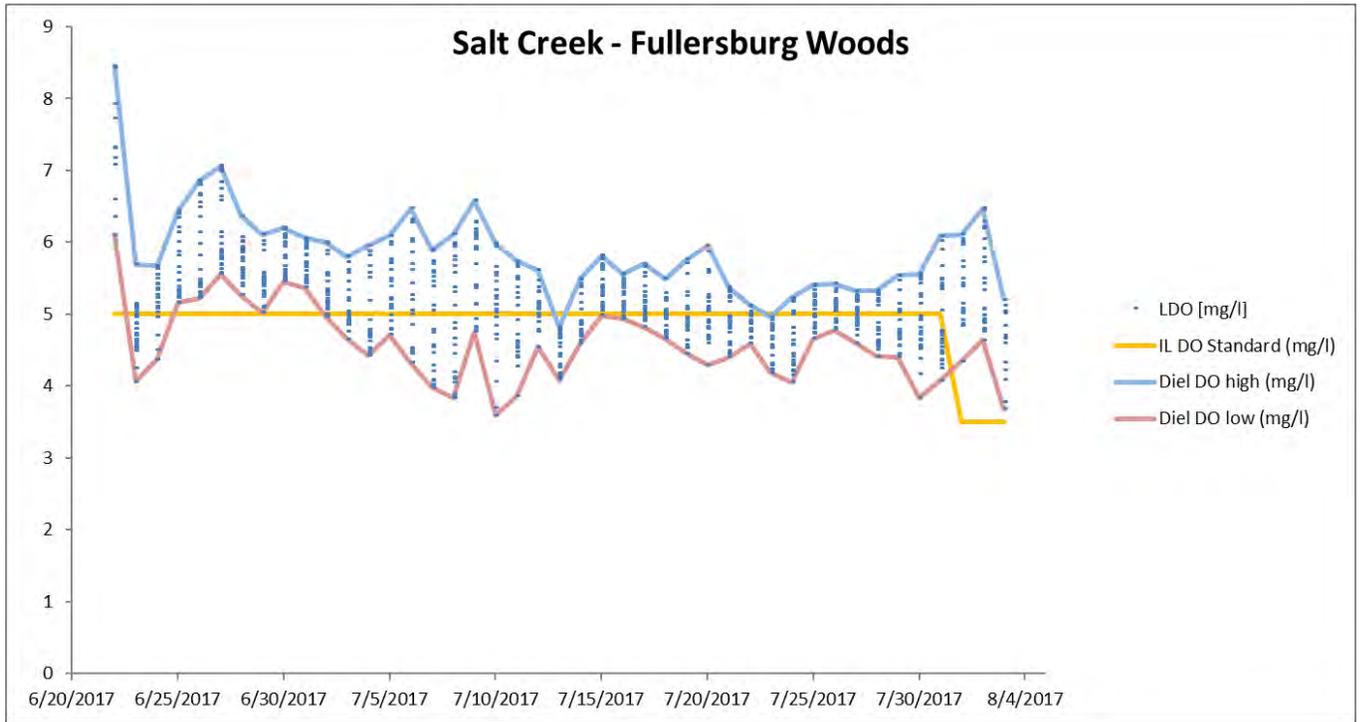
**Figure 23.** Dissolved Oxygen plots for East Branch DuPage River sites EBHR (top panel) and EBWL (lower panel).



**Figure 24.** Dissolved Oxygen plots for Salt Creek sites SCOM (top panel) and SCBR (lower panel).



**Figure 25.** Dissolved Oxygen plots for Salt Creek sites SCFW.



**B. Recordkeeping**

All monitoring data including by not limited to laboratory results, chain of custodies (COCs), and quality assurance protection plans (QAPP) will be maintained by the DRSCW for a minimum of 5 years after the expiration of the ILR40 (effective on 03/01/2016). The records are maintained at the DRSCW office located at The Conservation Foundation, 10S404 Knock Knolls Road, Naperville, Illinois 60656 and are accessible to the IEPA for review.

**C. Reporting**

The DRSCW is not responsible for preparing and submitting an Annual Report to the IEPA by the first day of June for each year that the permit is in effect. It is the responsibility of the individual ILR40 permit holders to utilize the information provided in this report to fulfill the reporting requirements outlined in the permit.

# **Attachment A**

2016 Deicing Program Survey Results



DuPage River Salt Creek Workgroup



# DuPage River Salt Creek Workgroup

## **Chloride Education and Reduction Program 2016 Deicing Program Survey**

March 16, 2017

# Section 1

## Background and Purpose

The DuPage River Salt Creek Workgroup (DRSCW) is a coalition of communities, sanitary districts, environmental organizations, and professionals working to improve the ecological health of Salt Creek and the Upper DuPage River. DRSCW is responding to water quality requirements for chloride as the East and West Branch of the DuPage River and Salt Creek have been identified as having chloride related impairments. Total Maximum Daily Load (TMDL) analysis performed by the Illinois Environmental Protection Agency recommended significant reductions in chloride loading for each of the streams to meet the water quality standard for chloride (500 mg/L).

DRSCW formed a Chloride Committee and the Chloride Education and Reduction Program to develop and promote alternatives to conventional roadway deicing practices and guide the implementation of the alternatives. An element of the program is gathering information from municipal deicing programs via survey questionnaires to benchmark municipal activities and identify positive changes in protocols. This report serves to summarize the responses received from the 2016 deicing program survey.

Funding for the program and this report is provided in part by the Illinois Environmental Protection Agency through Section 319 of the Clean Water Act and DRSCW member dues.

### 1.1 Background Information

Municipal road salting was identified as a source of chloride loading to DRSCW watersheds. As a result, DRSCW distributed a survey questionnaire to about 80 municipalities and public works agencies in November 2006 and April 2007 to obtain baseline information about deicing practices throughout the watersheds. Thirty-nine responses to the survey were received, forming an informed baseline of the deicing programs implemented in the watersheds. A similar survey was distributed in 2010. Thirty-two public agencies responded to the 2010 survey which helped to note positive changes in local deicing practices. In 2012 and 2014, the survey generated 34 and 27 responses respectively, which further documented the chloride reduction practices. Forty-three (43) agencies responded to the 2016 survey, the most agencies ever responding to a program survey.

### 1.2 Goals of the Questionnaires

The 2016 Deicing Program Survey was conducted in the spring of 2016 to follow up with the agencies on any changes and/or improvements in their deicing programs, potentially because of DRSCW Chloride Reduction Program efforts, and any resulting effects on salt application rates.

The 2016 survey questionnaire asked for information about deicing practices and strategies per the following categories:

- General deicing and snow removal information
- Deicing and snow removal equipment

- Application rates
- Salt storage
- Equipment maintenance and calibration
- Management and record-keeping

The responses to the survey are summarized in Section 2 of this report. The responses are compared to those received in earlier surveys to determine if any changes or improvements have occurred. The survey and response data are included in **Appendix A**.

# Section 2

## Survey Responses

### 2.1 Survey Responses

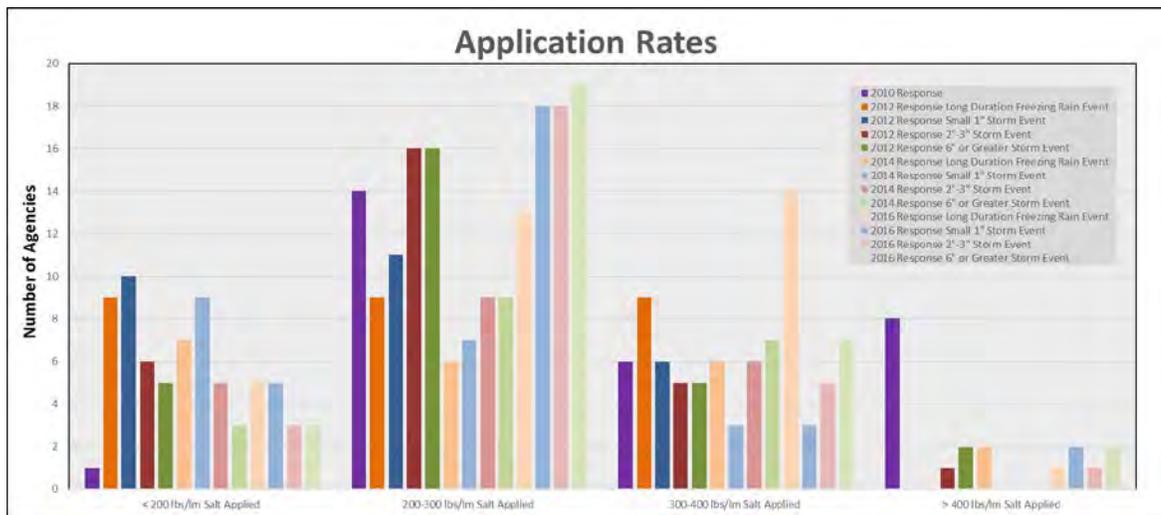
Forty-three agencies responded to the 2016 survey. The following subsections summarize the responses in each of the categories described in Section 1. The survey and all responses are included in **Appendix A** of this report. Note that not all agencies provided responses to all questions, and some agencies answered some questions in different ways, resulting in some inconsistencies in survey results.

#### 2.1.1 General Deicing and Snow Removal Information

The survey asked agencies for general deicing and snow removal information. All responding agencies provided some information. Survey responses indicated approximately 10,800 lane miles of road serviced by deicing programs throughout the watersheds.

##### 2.1.1.1 Salt Application and Price

The majority of agencies indicated an average salt application rate of 200-300 pounds per lane mile (lbs/lm). **Figure 2-1** shows the respondent's salt application rate distribution from 2010 to 2016.



**Figure 2-1 – Average Salt Application Rates**

Regarding salt prices, 26 of the 43 agencies responding indicated an increase in salt or deicing product prices over the past few years. Eleven agencies reported a decrease in salt or deicing product price over the past few years. Nine agencies indicated that product prices have remained the same.

### **2.1.1.2 Deicing, Anti-Icing, Pre-Wetting, and Deicing Agents**

Information about deicing, pre-wetting, and anti-icing practices, as well as the deicing agents used was requested by the survey. The following is a list of deicing agents used by respondents:

- Each of the 43 responding agencies reported the use of salt
- Thirty-two agencies reported the use of dry rock salt
- Twenty-two agencies used liquid calcium chloride, a significant increase from previous surveys
- Thirteen agencies reported the use of pre-manufactured liquid products

From the 43 respondents, 25 agencies indicated that they implement anti-icing practices; in most cases the anti-icing program included occasional pre-salting or liquid application in priority locations. This suggests an increase in the number of agencies implementing anti-icing practices watershed wide.

The 2016 survey asked about liquid anti-icing mixes, and in general, most respondents using liquids make a home-made mix of 70% - 90% salt brine and 10% - 30% beet juice, pre-manufactured liquid, and/or calcium chloride.

### **2.1.1.3 Weather and Pavement Temperature Forecasting**

Out of the agencies responding, 30 agencies use a weather forecasting service (1 agency did not answer). This suggests a significant increase in the use of weather forecasting services watershed wide.

Additionally, 30 of 41 respondents are making use of a pavement temperature forecast report or similar service (2 agencies did not answer). This suggests a significant increase in the use of pavement temperature information throughout the watershed, an improvement in best management practices implementation.

## **2.1.2 Deicing and Snow Removal Equipment**

All agencies use snow plows or similar equipment. Thirty-two agencies have mechanically controlled spreading equipment, and 33 have computer-controlled equipment. Equipment for spreading liquids is used by 25 agencies.

### **2.1.3 Salt Storage**

The provided responses indicated the following salt storage practices:

- Forty-three responded that salt storage areas are fully enclosed storage structure or have impervious storage pads
- Forty agencies store salt on an impervious pad
- Thirty-four agencies indicated that drainage from their storage area(s) is controlled or collected

- Twenty-seven agencies indicated that they store salt in a single storage area
- Thirty-five agencies store salt in an enclosed area
- Sixteen reported that residual salt in loading areas is swept up

#### **2.1.4 Equipment Maintenance, Cleaning, and Calibration**

Forty agencies responded that equipment is washed at an indoor station draining to a sanitary sewer. Five agencies indicated outdoor washing in areas not drained to a sanitary sewer. Two respondents reported collecting and reusing wash water for brine making.

Forty-two agencies responded to the survey regarding equipment calibration. Thirty-five agencies indicated that they calibrate their de-icing equipment, an increase in the number of agencies performing calibration as a best management practice. Most of the 35 agencies providing calibration information perform calibration annually, with 1 agency calibrating 2 times per season, and 3 agencies calibrating after major maintenance or repairs.

#### **2.1.5 Management and Record-Keeping**

Twenty-one agencies indicated that operators are trained annually (or more often). Eleven of the remaining agencies train at the start of employment and one agency did not specify a training schedule.

From a management standpoint, the rate of salt application is established by the director or supervisor in 37 agencies, and solely by the operators in four agencies. This indicates a significant increase in the director or supervisor level of control over application rates from previous surveys.

During spreading, the rate of product application is controlled by the operator in 31 agencies, controlled automatically in 9 agencies and set at a fixed rate in 4 agencies.

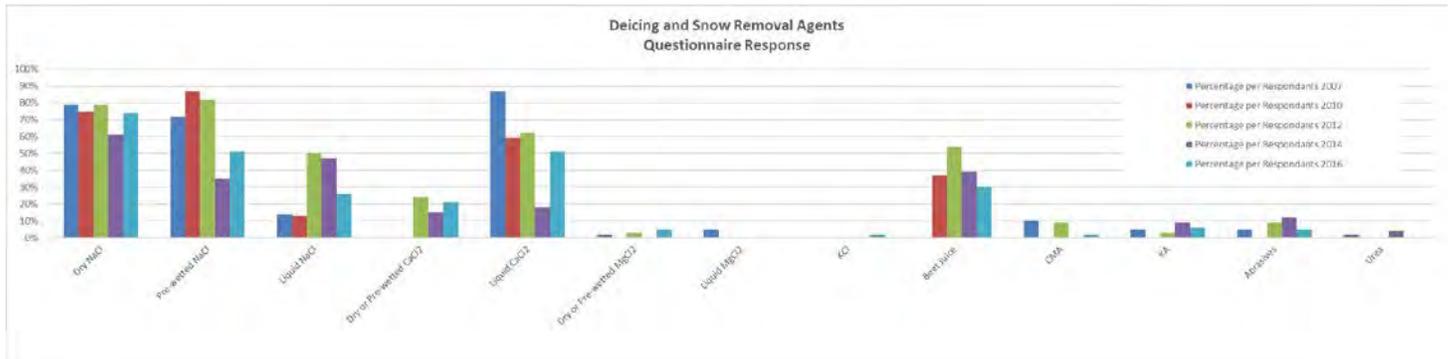
The 2016 survey responses indicate a significant increase in record keeping best management practices in recent years. Twenty-three agencies keep records of salt usage per truck, 34 keep records for each storm event, and twenty keep records for each winter season.

### **2.2 Survey Analysis**

The following subsections provide survey conclusions developed by comparing information from the 2016 survey to responses received from the 2014 survey or previous surveys. Forty-three (43) agencies responded to the 2016 survey, while 27 agencies responded to the 2014 survey. The number of new agencies responding to the survey is a positive for the amount of information provided for study and program participation overall, but results in some changes or inconsistencies in information trends.

## 2.2.1 Alternative Methods and Practices Analysis

Many of the questions in the survey focused on the use of alternative deicing agents, methods, and practices such as pre-wetting and anti-icing. **Figure 2-2** illustrates the percentage of respondents that use various deicing agents as reported on the 2007, 2010, 2012, 2014, and 2016 questionnaires.



**Figure 2-2 – Deicing and Snow Removal Agents**

The survey results indicated that the use of dry and pre-wetted salt (NaCl) has increased. While 50% of agencies reported using pre-wetted salt, previous program information suggests that the level of pre-wetting is much higher than this throughout the watershed. The 2016 survey percentages may be skewed by the new agencies providing information this year, and inexperience with the type of information being asked by the survey. Follow up with individual agencies for future surveys may be needed.

Similarly, the 2016 survey results indicate an increase in the amount of agencies using dry salt. Previous program information suggests that fewer agencies use dry salt (not pre-wetted), and follow up with individual agencies may be needed to further detail the information being requested by the survey. The apparent decrease in the use of liquid NaCl (brine) may also be a result of the new respondent's inexperience with the survey, or may be an opportunity for the Chloride Committee to investigate further expansion of the use of brine as a BMP.

Other analysis observations include:

- Results show an increase in the use of all forms of Calcium chloride (CaCl<sub>2</sub>). The increase in liquid CaCl<sub>2</sub> is significant, roughly 30% higher.
- Results show an increase in the use of dry or prewetted Magnesium chloride (MgCl<sub>2</sub>).
- No 2016 responders used liquid MgCl<sub>2</sub> and Urea.
- A few respondents used Potassium Chloride (KCl) compared to none in previous years.

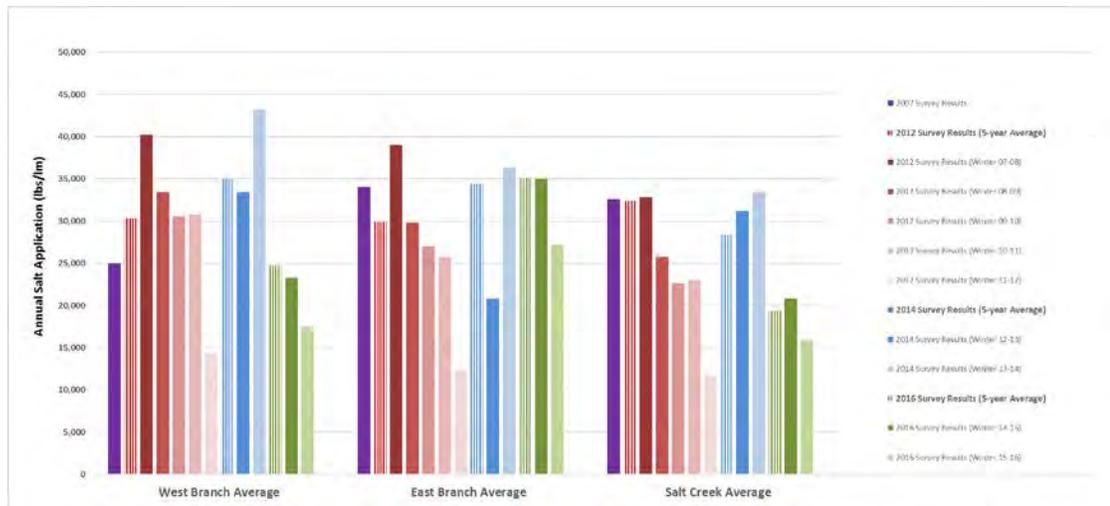
- Calcium Magnesium Acetate (CMA), Potassium acetate (KA), and Abrasives have decreased since 2014.
- Beet juice as an additive continued in popularity.

Information provided about anti-icing practices that agencies may be employing indicated in 2007 that 14 agencies reported the use of anti-icing practices. In 2010, 20 agencies reported using anti-icing practices. In 2012, 20 agencies reported using anti-icing practices, and in 2014, 13 agencies used anti-icing practices. In 2016, 26 agencies used anti-icing practices. Compared to 50 percent in 2014, 60 percent of local agencies are implementing some form of anti-icing practices in 2016. This trend suggests improvement in the use of anti-icing BMPs over time, with the most widespread use in 2016.

Two of the responding agencies reuse vehicle wash-water for making brine solutions compared to none from the 2014 survey.

### **2.2.2 Salt Application Rates**

In 2007, survey respondents were asked about their average annual salt usage. In 2012, 2014, and again in 2016, respondents were asked about annual salt usage. Respondents gave their annual usage for each winter season which provides a good benchmark for how weather has affected salt application rates. **Figure 2-3** shows an approximated annual salt usage in lbs/lane mile for each watershed in the study area reported from the 2007, 2012, 2014, and 2016 surveys. Annual salt application rates generally decreased from 2007 – 2012 in the watersheds, and increased from 2012-2014 as a result of snowfall and storm event frequency variation. The 2016 survey responses indicated that the per lane mile use of salt in the 2015-16 winter has decreased from that in most previous years. The number and type of winter storm events occurring each year and the different number of agencies providing usage information for each survey make developing direct usage trends or correlations difficult.



**Figure 2-3 – Annual Salt Application Reported from 2007 - 2016**

Survey respondents were asked about the average salt application rate per lane mile based on specific storm events. This information more comparably describes a community’s salt usage, or application rate. **Figure 2-1** shows salt application rates reported from the 2010, 2012, 2014, and 2016 surveys. In general the number of agencies applying 200-300 lbs/lm has increased from 2010 to 2016. The other reported application rates have stayed relatively constant over the period. The majority of increases shown for 2016 are due to the increase in the number of agencies providing information for the 2016 survey.

Both annual salt usage data and salt application rates provide insight into individual agency programs and salt application across watersheds, as well as a valuable benchmark for future survey and Chloride Reduction Program efforts. Both of the above values will continue to be requested of agencies in future surveys to compare and report deicing program improvements, and presumed water quality improvements.

## 2.3 Survey Conclusions

The purpose of the 2016 survey was to gather follow-up information to determine if alternative deicing practices are being implemented in the DuPage River/Salt Creek watersheds and any resulting effects on salt application rates. Forty-three (43) agencies responded to the 2016 survey, the highest number of agencies ever responding to a program survey. As there were several new agencies providing information, the 2016 survey results may be skewed by the new agencies providing information this year, and inexperience with the type of information being asked by the survey. Follow up with individual agencies for future surveys may be needed.

Almost all agencies in the program area have covered permanent salt storage facilities; however there are still some opportunities for storage and salt handling improvements across the watersheds.

The 2016 survey shows increased implementation of best management practices for deicing program implementation for the following:

- Spreading equipment calibration
- Use of weather forecasting for deicing response decisions
- Use of pavement temperature information for deicing response decisions

The survey shows expanded use of anti-icing (pretreatment) BMPs throughout the watershed, and continued use and testing of alternative deicing materials and additives to reduce total salt usage. Agencies reporting use of more than 400 lbs of salt per lane mile are opportunity for the Chloride Reduction Program to expand outreach and BMP information.

The 2016 survey highlights significant local deicing program management oversight improvements, particularly with control over application rates. Recordkeeping improvements have been implemented throughout the watershed area to better manage the quantity of salt being used in different situations. Nine out of 42 responses reported changes made to their program due to local deicing program workshops. Common methods of informing the public of policy or local program changes include the use of city or township website, newsletter, social media, and press releases.

In order to perform a more definitive trend analysis of program improvements and reductions in salt usage, additional information will need to be collected over time. Information should continue to be collected to characterize any deicing program BMP improvements and resulting reductions in salt usage occurring within the DRSCW watersheds.

## **Part C. Information and Data Collection Results**

*(Provide information and water quality sampling/monitoring data related to illicit discharge detection and elimination collected during the reporting period.)*

During the March 2017 to March 2018 reporting period, the Village joined the DuPage River Salt Creek Watershed Workgroup. The Workgroup completes stream sampling and watershed planning in response to the TMDL reports and impairments developed by the IEPA. Results of this work can be found on the Workgroup website.

## Part D. Summary of Year 16 Stormwater Activities

*(Present a summary of the storm water activities you plan to undertake during the next reporting cycle, including an implementation schedule in the sections following the table.)*

The table shown below summarizes the BMPs committed to for Year 16. Specific BMPs and measurable goals for Year 16 program development activities are presented in the sections following the table.

**Note: X indicates BMPs committed to for Year 16.**

Year 15	
MS4	
<b>A. Public Education and Outreach</b>	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
	A.4 Community Event
	A.5 Classroom Education Material
	A.6 Other Public Education
<b>B. Public Participation/Involvement</b>	
	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
	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
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 15	
MS4	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

## 1. Public Education and Outreach

The Village is committing to conduct Public Education and Outreach as part of its permit. A significant portion of this will include the QLP from DuPage County. The Village commits to implementation of BMPs related to A.1 as described below.

### **BMP No. A.1**

#### **Brief Description of BMP:**

The Village distributes a variety of paper materials from a number of sources informing the public about stormwater or water quality and why they are important.

#### **Measurable Goal(s), including frequencies:**

The materials chosen will be targeted toward residents, businesses and other potential pollutant sources to create better awareness and knowledge of the issue.

**Milestones:**           **Year 16:** The Village will continue to distribute materials at the front desk of the Development Department.

## 2. Public Participation/Involvement

The Village will perform activities and services related to the Public Participation/Involvement minimum control measure. A significant portion of this will include the QLP from DuPage County. BMPs will be implemented under BMP numbers B.3 and B.4 as described below.

### **BMP No. B.3**

#### **Brief Description of BMP:**

Village staff regularly participates in stakeholder meetings such as the DuPage River Salt Creek Workgroup.

#### **Measurable Goal(s), including frequencies:**

Village staff will continue to be a member and attend the DuPage River Salt Creek Workgroup meetings.

**Milestones:**           **Year 16:** The Village will participate in all applicable Workgroup meetings.

### **BMP No. B.4**

#### **Brief Description of BMP:**

The Village will hold a public meeting on stormwater

#### **Measurable Goal(s), including frequencies:**

Public meetings once a year will allow the Village to gather input on stormwater issues from the community as well as educate the community and public officials on stormwater related issues.

**Milestones:**           **Year 16:** The Village will schedule and hold a public hearing on stormwater issues.

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

The Village commits to performing some activities related to the Illicit Discharge Detection and Elimination minimum control. BMPs will be implemented under BMP numbers C.1, C.2, C.3, C.4, C.5, C.6, C.7 and C.9 as described below.

#### **BMP No. C.1**

##### **Brief Description of BMP:**

The Village has a storm sewer mapping system of the receiving streams and outfalls.

##### **Measurable Goal(s), including frequencies:**

The Village will review the map and update as needed.

**Milestones:**           **Year 16:** The Village will continue to update the map as necessary.

#### **BMP No. C.2**

##### **Brief Description of BMP:**

The Village has adopted an Illicit Discharge and Detection Ordinance.

##### **Measurable Goal(s), including frequencies:**

The Village will continue to enforce the existing ordinance that prevent non-stormwater discharges to reduce or eliminate pollutants from entering the municipal separate storm sewer system.

**Milestones:**           **Year 16:** The Village will continue to enforce the existing ordinance.

#### **BMP No. C.3**

##### **Brief Description of BMP:**

The Village utilizes various tools to identify and report potential illicit discharges. The Village also investigates reports of illicit discharges.

##### **Measurable Goal(s), including frequencies:**

The Village will continue to identify and investigate potential illicit discharges to reduce or eliminate the impact on local stormwater systems and receiving streams.

**Milestones:**           **Year 16:** The Village will continue to identify and investigate potential illicit discharges.

**BMP No. C.4/C.5**

**Brief Description of BMP:**

Develop procedures to trace and remove detected illicit discharges. Annually trace and remove all illicit discharges identified by resident reporting, visual dry weather screening, and public works maintenance activities.

**Measurable Goal(s), including frequencies:**

The Village will track, investigate and eliminate illicit discharges as reported, observed or identified

**Milestones:**           **Year 16:** The Village will trace and eliminate illicit discharges as needed.

**BMP No. C.6**

**Brief Description of BMP:**

The Village will evaluate the illicit discharge and detection program for effectiveness and possible improvements.

**Measurable Goal(s), including frequencies:**

Regular evaluation of the program can provide valuable input and opportunity for improvement.

**Milestones:**           **Year 16:** The Village will evaluate the program at least once a year.

**BMP No. C.7**

**Brief Description of BMP:**

Annual screening of all outfalls to identify any illicit discharges. Annual screening with a priority placed on storm sewer structures located in industrial areas.

**Measurable Goal(s), including frequencies:**

The Village will work to utilize inspection forms while performing the dry weather screening inspections.

**Milestones:**           **Year 16:** The Village will evaluate its dry weather inspection form and procedures.

**BMP No. C.9**

**Brief Description of BMP:**

The Village has a website link available for reporting drainage problems and illicit discharges.

**Measurable Goal(s), including frequencies:**

The Village regularly checks the input received from residents regarding illicit discharges and responds according to the IDDE Manual.

**Milestones:**           **Year 16:** The Village will continue receiving input.

**4. Construction Site Runoff Control**

The Village will perform activities and services related to the Construction Site Runoff Control minimum control measure. BMPs will be implemented under BMP numbers D.1, D.2, D.4, D.5 and D.6 as described below.

**BMP No. D.1**

**Brief Description of BMP:**

The Village and County have ordinances in place to allow for review, inspection, and enforcement of construction site runoff controls.

**Measurable Goal(s), including frequencies:**

The Village will continue to review, inspect and enforce the ordinance regulations to prevent or reduce the discharge of sediment or other pollutants from construction sites.

**Milestones:**           **Year 16:** The Village will enforce the regulatory procedures.

**BMP No. D.2**

**Brief Description of BMP:**

The Village and County have ordinances in place to allow for review, inspection, and enforcement of construction site runoff control BMP's.

**Measurable Goal(s), including frequencies:**

The Village will continue to review, inspect and enforce the ordinance regulations to prevent or reduce the discharge of sediment or other pollutants from construction sites as it relates to BMP's.

**Milestones:**           **Year 16:** The Village will enforce the regulatory procedures.

**BMP No. D.4**

**Brief Description of BMP:**

The Village has procedures that proposed development plans to be reviewed for compliance.

**Measurable Goal(s), including frequencies:**

The Village will continue to require all developments to be reviewed for compliance with NPDES regulations and other Village ordinance standards.

**Milestones:**           **Year 16:** The Village will enforce the review procedures.

**BMP No. D.5**

**Brief Description of BMP:**

The Village has produces in place for receiving, logging and addressing publicly reported issues.

**Measurable Goal(s), including frequencies:**

The Village will continue to respond to publicly reported issues in a timely manner and investigate as needed to address them.

**Milestones:**           **Year 16:** The Village will respond accordingly.

**BMP No. D.6**

**Brief Description of BMP:**

The Village and County regulatory programs allow for inspection and enforcement procedures for construction site runoff control.

**Measurable Goal(s), including frequencies:**

The Village will continue to inspect all new developments for compliance with the Village and County ordinances.

**Milestones:**           **Year 16:** The Village will enforce the ordinance.

**5. Post-Construction Runoff Control**

The Village will perform activities and services related to the Post-Construction Site Runoff Control minimum control measure. BMPs will be implemented under BMP number E.2, E.3, E.4, E.5 and E.6 as described below.

**BMP No. E.2**

**Brief Description of BMP:**

The Village and County have ordinances in place that allow for the review, inspection and enforcement of post-construction runoff control measures.

**Measurable Goal(s), including frequencies:**

The Village will continue to enforce the ordinances for compliance with post construction runoff controls to prevent or reduce the discharge of contaminants from construction sites.

**Milestones:**           **Year 16:** The Village will enforce the ordinances.

**BMP No. E.3**

**Brief Description of BMP:**

The Village and County have procedures in place for assisting and evaluating the long term maintenance of stormwater best management practices.

**Measurable Goal(s), including frequencies:**

The Village will continue long term maintenance programs to assist developers and residents.

**Milestones:**           **Year 16:** The Village will continue the long term maintenance program as indicated in the SMO.

**BMP No. E.4**

**Brief Description of BMP:**

The Village and County have procedures in place for the pre-construction review of BMP designs. These procedures include pre-application meetings for large scale developments.

**Measurable Goal(s), including frequencies:**

The Village will continue the review procedures and modify or evaluate as needed to maintain compliance.

**Milestones:**           **Year 16:** The Village will continue the BMP review procedures.

**BMP No. E.5**

**Brief Description of BMP:**

The Village has procedures in place to perform site inspections during construction by qualified personnel.

**Measurable Goal(s), including frequencies:**

The Village will continue with the site inspections procedures to verify compliance of BMP's in reducing and/or preventing the discharge of contaminants to local waterways and storm sewers.

**Milestones:**           **Year 16:** The Village will continue with the site inspection procedures.

**BMP No. E.6**

**Brief Description of BMP:**

The Village has procedures in place to perform site inspections after construction by qualified personnel.

**Measurable Goal(s), including frequencies:**

The Village will continue with the post-construction site inspections procedures to verify compliance of BMP's in reducing and/or preventing the discharge of contaminants to local waterways and storm sewers.

**Milestones:**           **Year 16:** The Village will continue with the site inspection procedures.

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

This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. This program must include a training program for municipal employees. The Village will perform BMPs under BMP numbers F.1, F.2, F.3, F.4, F.5 and F.6 as described below.

### **BMP No. F.1**

#### **Brief Description of BMP:**

Annually conduct formal stormwater pollution prevention training for Village employees on topics such as: dry weather observation of outfalls using the outfall reconnaissance inventory, illicit discharge tracing and source removal procedures, maintenance of green infrastructure (dry wells), and implementing the Stormwater Pollution Prevention Plan for the Public Works Facility. Document the date, topic, and attendees for employee stormwater pollution prevention training.

#### **Measurable Goal(s), including frequencies:**

The Village will continue with the training program aimed at educating Village staff on ways to reduce or prevent stormwater pollution from Village activities.

**Milestones:**           **Year 16:** The Village will continue with the training program.

### **BMP No. F.2**

#### **Brief Description of BMP:**

Annually clean Village storm sewers and storm sewer structures. Sweep Village streets four times per year and maintain ditches as needed or as requested by residents. Annually document the weight of debris removed from the Village storm sewer system.

#### **Measurable Goal(s), including frequencies:**

The Village will continue the inspection and maintenance program of stormwater facilities to reduce the amount of debris and pollutants that enter the stormwater system.

**Milestones:**   **Year 16:** Clean Village storm sewers and storm sewer structures. Sweep Village streets per the contract and maintain ditches as needed. Document the weight of debris removed from the Village storm sewer system.

**BMP No. F.3**

**Brief Description of BMP:**

The Village has procedures in place to reduce or prevent the discharge of contaminants to the stormwater system from municipal operations.

**Measurable Goal(s), including frequencies:**

The Village will continue to be proactive in evaluating municipal activities that could potentially introduce pollutants to the stormwater system and develop methods to reduce or prevent them.

**Milestones:**           **Year 16:** The Village will continue with the municipal control measures and evaluate additional methods as needed.

**BMP No. F.4**

**Brief Description of BMP:**

The Village has procedures that require appropriate disposal of all wastes generated during municipal operations.

**Measurable Goal(s), including frequencies:**

The Village will continue with the disposal program and requirements to reduce or eliminate the release of pollutants from municipal operations.

**Milestones:**           **Year 16:** The Village will continue with the municipal operations disposal program.

**BMP No. F.5**

**Brief Description of BMP:**

The Village, County and State have strict development regulations related to floodplain management and the evaluation of potential development in these areas.

**Measurable Goal(s), including frequencies:**

The Village will continue to enforce the requirements for potential development in special flood hazard areas.

**Milestones:**           **Year 16:** The Village will continue to enforce the flood management requirements.

**BMP No. F.6**

**Brief Description of BMP:**

The Village regularly evaluates their municipal activities for additional ways to reduce or eliminate pollutants from entering the stormwater system including salt reduction, additional de-icing alternatives and other actions.

**Measurable Goal(s), including frequencies:**

The Village will continue to evaluate and develop methods or changes to existing practices that can reduce or eliminate pollutants from entering the stormwater system from municipal activities.

**Milestones:**           **Year 16:** The Village will continue the evaluation and monitoring program.

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

The Village of Oak Brook has adopted and enforces the DuPage County Stormwater Management Ordinance as a full-waiver community. The Village has the authority to enforce the County Ordinance within the Village limits, including the Construction Site and Post-Construction Stormwater Runoff Control requirements. As the Village takes on this responsibility, it will assure that construction sites are meeting the ILR10 permit requirements as well as the County's Ordinance requirements.

The Village takes full advantage of the County's various training and public education and engagement programs as QLP.

### **1. Public Education and Outreach:**

The County has developed a comprehensive program during the previous 10 year NOI permit period that provides public speaking engagements, classroom education material and community events. The Village supports these public education and outreach programs by providing notice to them on the Village's website.

This program relates to BMP numbers A.2, A.3, A.4 and A.5.

### **2. Public Participation/Involvement:**

The County has developed a comprehensive program to address the Public Participation/Involvement requirement developed during the initial 10 years of the NPDES Phase II permit. This includes hosting public panels, volunteer monitoring, program involvement and other public involvement. The Village supports these public education and outreach programs by providing notice to them on the Village's website.

These programs relate to BMP numbers B.1, B.5, B.6 and B.7.

### **3. Illicit Discharge Detection and Elimination:**

The Village has recently developed and adopted comprehensive program to address the Illicit Discharge Detection and Elimination requirements of the NPDES Phase II program. The Village also has an ordinance prohibiting illicit discharges and an Intergovernmental Agreement with DuPage County for inspection and enforcement. The applicable program details are outlined in the previous sections of this report. The Village has its own program and only relies on the County as a QLP to fill in the gaps as necessary.

### **4. Construction Site Runoff Control:**

The Village has adopted and enforces the DuPage County Stormwater Management Ordinance as a certified community. As a full-waiver community the Village has the authority to enforce the County Ordinance within the Village limits, including the Construction Site and Post-Construction Stormwater Runoff Control requirements.

They are not relying on a QLP for this BMP.

#### **5. Post-Construction Runoff Control:**

The Village has adopted and enforces the DuPage County Stormwater Management Ordinance as a certified community. As a full-waiver community the Village has the authority to enforce the County Ordinance within the Village limits, including the Construction Site and Post-Construction Stormwater Runoff Control requirements.

They are not relying on a QLP for this BMP.

#### **6. Pollution Prevention/Good Housekeeping:**

The goal of this BMP is to identify current practices that contribute to stormwater pollution and implement programs and procedures for municipal activities that curtail the discharge of pollutants to storm sewer systems. The applicable program details are outlined in the previous sections of this report.

They are not relying on a QLP for this BMP.

As of May 8, 2018, the Village has entered into an IGA with DuPage County for the Countywide MS4 program. A copy of the IGA is enclosed as well as the MS4 permit waiver from IEPA. The Village will continue to follow the Year 16 Plan above as it transitions to the Countywide Program.



# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

**BRUCE RAUNER, GOVERNOR**

**ALEC MESSINA, DIRECTOR**

217/782-0610

May 24, 2018

Village of Oak Brook  
Doug Patchin  
1200 Oak Brook Road  
Oak Brook, IL 60523

Re: Village of Oak Brook – NPDES Phase II Storm Water Program for Municipal Separate Storm Sewer Systems – Waiver Approval –ILR4000407  
Bureau ID: W0434700009

Dear Applicant:

The Illinois Environmental Protection Agency has reviewed your letter requesting a waiver for the Village of Oak Brook NPDES Municipal Separate Storm Sewer System permit.

The Village of Oak Brook boundaries are coterminous with DuPage County.

This notice of no NPDES permit required constitutes final action by this Agency on this submission in accordance with the Illinois Environmental Protection Act.

Please note that you must submit a new waiver request 180 days prior to the expiration of the current ILR40 permit. The submittal is due on or before: September 1, 2020

Should you have any questions or comments regarding the above, please contact the Permit Section at 217/782-0610 or at the above address.

Very truly yours,

Amy L. Dragovich  
Manager, Permit Section  
Division of Water Pollution Control

cc: DesPlaines Region, Records, CAS, Billing Unit

**AN INTERGOVERNMENTAL AGREEMENT BETWEEN**  
**THE VILLAGE OF OAK BROOK**  
**AND THE COUNTY OF DUPAGE, ILLINOIS**  
**FOR THE IMPLEMENTATION OF THE**  
**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM IN**  
**THE SALT CREEK WATERSHED**

THIS INTERGOVERNMENTAL AGREEMENT is entered into this 8<sup>th</sup> day of May 2018 between the Village of Oak Brook of DuPage and Cook Counties (hereinafter referred to as the "Municipality") a body corporate and politic, with offices at 1200 Oak Brook Road, Oak Brook, Illinois 60523 and the County of DuPage, Illinois (hereinafter referred to as the "County") a body corporate and politic, with offices at 421 North County Farm Road, Wheaton, Illinois 60187-3978.

**RECITALS**

WHEREAS, the Municipality and County are public agencies within the meaning of the Illinois "Intergovernmental Cooperation Act" and as authorized by Article 7, Section 10 of the Constitution of the State of Illinois; and

WHEREAS, the purposes of the "Intergovernmental Cooperation Act" and Article 7 of the Constitution of the State of Illinois include fostering cooperation among governmental bodies; and

WHEREAS, the Illinois General Assembly has granted the County authority to take action to control flooding and to enter into Agreements for the purposes of stormwater management and flood control (Illinois Compiled Statutes, Chapter 55 paragraphs 5/5-1062.3 and 5/5-15001 et. seq.); and

WHEREAS, General National Pollutant Discharge Elimination System ("NPDES") Permit No. ILR40 authorizes discharges from Small Municipal Separate Storm Sewer Systems (MS4s); and

WHEREAS, MS4s are defined in 40 CFR 122.26(b) (16) as designated for permit authorization pursuant to 40 CFR 122.32; and

WHEREAS, both the County and Municipality have submitted an Illinois MS4 Notice of Intent ("NOI") to the Illinois Environmental Protection Agency ("IEPA") for coverage under ILR40; and

WHEREAS, the General NPDES Permit No. ILR40 requires development, implementation, and enforcement of a storm water management program designed to reduce the discharge of pollutants from small municipal storm sewer systems to the maximum extent practicable to protect water quality, and to satisfy the appropriate water quality requirements of the Illinois Pollution Control Board Rules and Regulations (35 III. Adm. Code, Subtitle C, Chapter 1) and the Federal Water Pollution Control Act (33 U.S.C. § 1251 *et seq.*); and

WHEREAS, the storm water management program must include the minimum control

measures described in the General NPDES Permit No. ILR 40, Part IV, Section B; and

WHEREAS, the Municipality and County have each determined that they could realize cost savings by utilizing County equipment, vehicles and personnel to complete these minimum control measures, subject to the latter's availability; and

WHEREAS, the General NPDES Permit No. ILR40 Part IV, Section D authorizes Sharing Responsibility; and

WHEREAS, the County and the Municipality have determined that it is in their best interest to cooperate in fulfilling the ILR40 Permit requirements;

NOW, THEREFORE, in consideration of the premises, the mutual covenants, terms, and conditions herein set forth, and the understandings of each party to the other, the parties do hereby mutually covenant, promise and agree as follows:

**1.0 INCORPORATION AND CONSTRUCTION.**

- 1.1 All recitals set forth above are incorporated herein and made part thereof, the same constituting the factual basis for this Agreement.
- 1.2 The headings of the paragraphs and subparagraphs of this Agreement are inserted for convenience of reference only and shall not be deemed to constitute part of this Agreement or to affect the construction hereof.
- 1.3 The exhibits referenced in this Agreement shall be deemed incorporated herein and a part thereof.

**2.0 PURPOSE OF AGREEMENT**

- 2.1 The purpose of this Agreement is to set forth the duties, roles and responsibilities to be provided by the County and the Municipality with respect to compliance with the IEPA General National Pollutant Discharge Elimination System Permit No. ILR40 for Discharges from Small Municipal Separate Storm Sewer Systems in the Salt Creek Watershed.

**3.0 COUNTY RIGHTS AND RESPONSIBILITIES.**

- 3.1 The County shall perform the tasks identified in the Scope of Work County Tasks, attached and incorporated hereto as Exhibit A.
- 3.2 The County shall be responsible for the scheduling and performance of County Tasks outlined in this Agreement. The County shall have full discretion as to the timing and manner of performance, and the assignment of County personnel to perform any task under this Agreement. Notwithstanding the foregoing, the County shall use reasonable efforts to perform such tasks on or before any dates or times requested by

the Municipality.

- 3.3** The County shall be responsible for including documentation related to the County's performance of the tasks identified in Exhibit A in the Annual Report submitted to the IEPA. The County shall provide a copy of this report to the Municipality in a timely manner, which includes tasks identified in Exhibit A.
- 3.4** For areas outside the DuPage County limits, the County shall be reimbursed by the Municipality for work undertaken pursuant to this Agreement in accordance with Section 6.0, below.
- 3.5** The Municipality may submit written requests ("work requests") to the Director of Stormwater Management ("Director"), or his designee, for the periodic and temporary use of County-owned equipment and machinery, and, or, County-employed personnel (collectively "County assets").
- 3.6** At the sole discretion of the Director, or his designee, the County may make County-assets available for use by the Municipality. The County, though, reserves the right to deny, delay, divert, limit the use of, recall, reschedule, revoke prior approvals for the use of, restrict the use of, or substitute County assets requested by, or provided to, the Municipality for any cause at any time. The parties acknowledge and agree that the Municipality use of County assets for any work request is, and shall be subordinate to the County's use of County assets for the County's own work. For the purpose of this provision, the term "County's own work" shall be construed to include any work that County assets have been, or will be, allocated to another governmental unit or public utility. The parties further acknowledge and agree that in the event any County assets previously approved for a Municipality work request may subsequently become unavailable, and that under no circumstance shall the County be liable to the Municipality, or to any third party, for any loss, added cost, added expense, damage or delay arising out of, or related to, the County's failure or inability to provide County assets as requested, or the County's decision to recall from, reduce, substitute or terminate the use of County assets at the Municipality work site.
- 3.7** While County assets are mobilized at a Municipality work site, such County assets shall act under the direction, control and supervision of the Municipality, through the Municipality designated representatives. The above-arrangement shall not be construed to create an employment relationship between the Municipality and County personnel, or any form of Municipality ownership or possessory interest by the Municipality in or over any County-owned property. At all times the County shall retain its rights under Paragraph 3.6 above, in relation to County assets.
- 3.8** The Municipality shall be solely responsible for obtaining all necessary permits and, or, regulatory approvals for work requests, posting or requiring bonds (as

applicable), coordination of all work items and deliveries, maintaining work site safety and security, post-work site restoration.

- 3.9** Nothing in this Agreement shall obligate the Municipality to utilize County assets, or any particular County asset, for any project or work task. In the event any particular County asset is unavailable, the Municipality shall be responsible for securing a suitable replacement, substitute or stand-in, at the Municipality expense.

#### **4.0 MUNICIPALITY RIGHTS AND RESPONSIBILITIES**

- 4.1** The Municipality shall perform the tasks identified in the Municipality Tasks Scope of Work, attached and incorporated hereto as Exhibit B.

#### **5.0 MUTUAL OBLIGATIONS**

- 5.1** The parties shall comply with all municipal, county, state and federal requirements now in force, or which may hereafter be in force, pertaining to this Agreement.
- 5.2** In the event either party (first party) is requested or required to provide the other party (second party) with the first party's consent, approval, review or comment concerning any matter under this Agreement, such request shall not be unreasonably denied, delayed or conditioned.

#### **6.0 COMPENSATION**

- 6.1** The County will provide services included in Exhibit A, Scope of Work County Tasks within the limits of DuPage County at no direct charge to the Municipality.
- 6.2** For services included in Exhibit A performed outside of DuPage County, the Municipality shall pay the County on a basis of a 1.4 direct labor multiplier applied to the actual hourly rates of County's staff. The multiplier includes the County's cost of overhead and incidental costs. A chart listing the hourly rates for County's staff, identified by position or assignment, is attached and incorporated hereto as Exhibit C.
- 6.3** For use of County owned equipment and machinery, the Municipality agrees to compensate the County for County assets delivered to the designated work site. Invoiced amounts shall be in accordance with the County's schedule of fees and hourly rates incorporated hereto as Exhibit D. The County shall invoice time at half hour increments. The County may invoice labor rates to include reasonable travel time to and from a work site, time spent idle and, or, on a stand-by basis (if not caused by the County).

- 6.4** The County and Municipality may agree, in writing, that the County may submit quarterly invoices, for services rendered. In all other instances, the County shall submit its invoice no later than sixty (60) days following the completion of the County's services at a work site. The County may bill for multiple work sites or tasks. Each County invoice shall summarize, as applicable, the man-hours and, or, equipment hours utilized, together with all applicable time, equipment and material fees charged and an identification of each work site and, or, task. The Municipality shall pay the County the amount(s) invoiced within thirty (30) days of receipt of each properly documented invoice for reimbursement.
- 6.5** The County may, from time-to-time, unilaterally amend its schedule of fees and hourly rates, and will provide its amended fees and rates to the Municipality with 60 days' notice. A revised fee and, or, rate shall only be effective after such written notice is provided. The fees and hourly rates in effect at the time a work request is submitted shall be the hourly rates and fees paid for that work.
- 6.6** Direct expenses for completion of all work outside of DuPage County may be invoiced to the Municipality at the rates stated in Exhibit C. The Municipality shall pay on an actual cost basis without any markup or multiplier.
- 6.6.1 For all direct expenses costing more than \$25.00, the County shall include with its invoice to the Municipality, as documentation of such expenses, including copies of receipts, if any, from third-party vendors, suppliers or service providers indicating the price(s) paid by the County for such expensed materials and/or items.
- 6.6.2 County shall not include computer and vehicle mileage as direct expenses (but may include parking fees).
- 6.6.3 The County shall obtain a quote for the cost to perform lab testing of outfall samples prior to having such lab testing performed. The Municipality shall approve or deny the request to perform lab testing and, if approved, shall pay the County the amount charged.
- 6.6.4 The County shall obtain a quote for any work performed by third party vendors, including natural areas maintenance and beaver trapping. Work will be conducted in accordance with current contract provisions between the County and the vendor.
- 6.7** When the County has expended seventy-five percent (75%) of the estimated total man-hours allocated for the performance of the tasks identified in the Scope of Work, the County shall notify the Municipality providing the following information: the status of that task and the estimated number of man-hours necessary to complete all remaining work for that task.

## **7.0 INDEMNIFICATION AND INSURANCE**

- 7.1** Each party (as the “Indemnitor”) shall indemnify and hold harmless the other party, its officials, officers and employees (the “Indemnitee Class”) from and against all liability, claims, suits, demands, proceedings and actions, including costs, fees and expense of defense, arising from, growing out of, or related to, any loss, damage, injury, death, or loss or damage to property resulting from, or connected with, the Indemnitor’s negligent or willful acts, errors or omissions in its performance under this Agreement, except as hereafter provided for by Paragraph 7.2 below.
- 7.2** To the extent allowed, the Municipality shall have the County assets, and the County, insured as an additional insured, which coverage levels shall be of the same coverage types and amounts maintained by the Municipality.
- 7.3** The parties do not waive or limit, by these indemnity requirements, any defenses or protections under the Local Government and Governmental Employees Tort Liability Act (745 ILCS 10/1 et seq.) or otherwise available to them. The immunities or defenses of either party, or any statutory limitation on damages, shall further operate as a bar and, or, limitation of that party’s indemnification obligations under this Agreement. Any indemnity as provided in this Agreement shall not be limited by reason of a parties’ insurance coverage and such indemnification obligations shall survive the termination, or expiration, of this Agreement for a period of two (2) years.

## **8.0 MISCELLANEOUS TERMS**

- 8.1** This Agreement may be modified or amended only by written instrument duly authorized and signed by both the County and the Municipality.
- 8.2** This Agreement contains the entire understanding of the County and the Municipality with respect to the subject matter hereof and supersedes all prior agreements and understandings with respect to such subject matter.
- 8.3** This Agreement shall be executed for and on behalf of the County and the Municipality pursuant to Resolutions or Ordinances approved by the legislative body of each of the parties.
- 8.4** This Agreement may be executed in multiple counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instruments.

**8.5** Upon termination, the liabilities and obligations of the parties to this Agreement shall cease. However, the parties shall not be relieved of the duty to perform their obligations up to the date of termination and the Parties shall not be relieved of their respective obligation to pay the other Party for any services rendered prior to termination.

**8.6** There are no other covenants, warranties, representations, promises, conditions or understandings, either oral or written, other than those contained herein.

**8.7** In the event of a conflict between the terms or conditions of this Agreement and any term or condition found in any exhibit or attachment, the terms and conditions of this Agreement shall prevail.

**8.8** Any required notice shall be sent to the following addresses and parties:

Village of Oak Brook  
Public Works  
1200 Oak Brook Road  
Oak Brook, IL 60523  
Attn: Director of Engineering

DuPage County  
Stormwater Management  
421 N. County Farm Road  
Wheaton, Illinois 60187  
Attn: Director of Stormwater Management

**8.9** The parties agree that the waiver of, or failure to enforce, any breach of this Agreement by the remaining party shall not be construed, or otherwise operate, as a waiver of any future breach of this Agreement. Further the failure to enforce any particular breach shall not bar or prevent the remaining party from enforcing this Agreement with respect to a different breach.

## **9.0 NOTICES REQUIRED UNDER THIS AGREEMENT**

**9.1** All notices required to be given under the terms of this Agreement shall be in writing and either (a) served personally during regular business hours; (b) served by facsimile transmission and e-mail during regular business hours; or (c) served by certified or registered mail, return receipt requested, properly addressed with postage prepaid. Notices served upon the Municipality shall be directed to:

Village of Oak Brook  
Public Works  
Attn: Director of Public Works  
1200 Oak Brook Road  
Oak Brook, IL 60523  
E-mail: [dpatchin@oak-brook.org](mailto:dpatchin@oak-brook.org)

Notices served upon the County shall be directed to:

DuPage County Stormwater Management Division

Attn: Director, Stormwater Management  
421 N. County Farm Road  
Wheaton, IL 60187-3978  
E-mail: [Water.Quality@dupageco.org](mailto:Water.Quality@dupageco.org)

Notices served personally or by facsimile transmission and e-mail shall be effective upon receipt, and notices served by mail shall be effective upon receipt as verified by the United States Postal Service. Each party may designate a new location for service of notices by serving notice thereof in accordance with the requirements of this paragraph.

## **10.0 TERM OF AGREEMENT**

- 10.1** As will be used for staff and budget requirements, the County and the Municipality agree to not change enforcement status within the term of this Agreement.
- 10.2** The initial term of this Agreement shall become effective May 8, 2018 and remain in full force and effect until March 31, 2023. On March 31, 2023, and on each subsequent anniversary date thereafter, this Agreement shall automatically renew for an additional five-year period. Either party may terminate this Agreement by giving written notice of said termination to the other party; a termination shall be effective immediately unless specific termination date has been agreed upon.

## **11.0 SEVERABILITY**

- 11.1** In the event any provision of this Agreement shall be held to be unenforceable or void, such provision shall be deleted and all other provisions shall remain in full force and effect to the fullest extent allowed by law and equity.

## **12.0 GOVERNING LAW**

- 12.1** This Agreement will be governed by the laws of the State of Illinois as to both interpretation and performance. The forum for resolving disputes concerning the party's respective performance, or failure to perform, under this Agreement, will be the judicial circuit court for DuPage County.

IN WITNESS WHEREOF, the parties to this Agreement set their hands and seals as of the date first written above.

BY: \_\_\_\_\_  
Gopal Lalmalani  
Village President  
Village of Oak Brook

ATTEST BY: \_\_\_\_\_  
Charlotte Pruss  
Village Clerk

BY: \_\_\_\_\_  
Daniel Cronin  
Chairman  
DuPage County Board

ATTEST BY: \_\_\_\_\_  
Paul Hinds  
County Clerk

**Exhibit A**  
**Scope of Work**  
**County Tasks**

## **Public Education and Outreach on Storm Water Impact**

The County will conduct public education and outreach activities within each major watershed on a multitude of topics, such as watershed planning efforts, water quality, and best management practices (BMPs) utilizing internal staff and/ or contractors to provide additional education and outreach services pertaining to both technical and general education on stormwater impact topics.

The County will provide handouts and brochures pertaining to sources of pollutants in waterways and water quality BMPs for distribution at public events, at County and municipal offices, as well as online. Materials will be updated as needed to incorporate new information, including the effects of climate change on stormwater impacts.

The County will coordinate, host, and present at least one workshop or community event in each watershed per year on topics including water quality efforts for the watersheds, methods for pollutant reduction, during and after construction BMPs, native vegetation, and green infrastructure. Presentations will include information on the potential impacts and effects of stormwater discharge due to climate change as applicable.

The County will utilize technology to enhance outreach efforts detailing water quality trends and highlighting practices that can reduce the transport of pollutants into waterways. The County will promote informational outlets using a Stormwater Management monthly e-newsletter, direct media relations, press releases and advisories to promote seasonal BMPs, events, and other stormwater-related news.

The County will partner with schools and local educational organizations, on stormwater management and water quality education promoting water quality and environmental efforts using watershed models and other educational tools.

## **Public Involvement/ Participation**

The County will inform the public on watershed initiatives and engage a broad range of individuals regarding policies and projects related to the control and reduction of pollutants in stormwater runoff through technical trainings, stakeholder groups, volunteer opportunities, and public meetings. The County will identify environmental justice areas within the watershed planning jurisdictions in order to ensure prioritization of efforts in regards to public involvement and participation initiatives.

The County will support training initiatives throughout each watershed for the purpose of engaging local residents, organizations, and government agencies in pollution reduction practices and volunteer opportunities.

The County will host at least two regular water quality stakeholder meetings per year in each of the County's main watersheds in order to address matters pertaining to pollutant reduction on a

watershed level. In addition, input on water quality impairments will be requested from stakeholders for incorporation into watershed planning efforts, which may cause the formation of separate stakeholder groups any given year.

The County will provide opportunity for public comment at annual hearings in order to reach all interested residents on the adequacy of its MS4 program, watershed plans, and projects. The County will publicize public comment periods in accordance with its education and outreach initiatives and include opportunities to comment online, in person, or by mail.

The County will coordinate educational and public involvement strategies. To gauge their effectiveness, the County will develop and distribute surveys via an email list, webpage, and on social media. These surveys measure citizen views, behaviors, and concerns pertaining to a variety of topics, including water quality, property management, flood perceptions, and residential pollutant control.

The County will sponsor a variety of volunteer opportunities, including: the Adopt-a-Stream program, the DuPage River Sweep, and the storm drain stenciling program.

### **Illicit Discharge Detection and Elimination (“IDDE”)**

The County agrees to undertake the monitoring of outfalls and tracing of illicit discharges within the municipal limits of the Municipality utilizing County personnel and equipment.

The County will provide the Municipality with the annual schedule for outfall monitoring by watershed.

The County agrees to prepare plans, processes, and procedures for the program meeting the requirements of the NPDES permit to monitor and trace illicit discharges into the MS4 on behalf of the Municipality.

The County agrees to obtain copies of the Notice of Intent (NOI) for each facility within the jurisdiction of the County and the Municipality having an individual NPDES permit to discharge storm water associated with industrial activity through the IEPA for the purposes of fair and accurate monitoring and tracing.

The County agrees to monitor MS4 outfalls within the jurisdiction of the Municipality, and to the extent it is so authorized, trace all discharges determined to be illicit with the objective of identifying the source of such illicit discharge.

The County agrees to notify the Municipality within a reasonable time prior to the County conducting dye testing as part of tracing procedures.

The County agrees to notify the Municipality within twenty-four (24) hours of detecting an illicit discharge within the municipal limits of the Municipality. Promptly upon completion of the

County's investigation, the County shall inform the Municipality of the location of the illicit discharge, the time(s) and date(s) of the discharge, and any additional information that would be necessary or prudent for the Municipality to have in order to carry out enforcement proceedings.

The County agrees to provide the Municipality with any information required for enforcement action and prosecution by the Municipality and produce County personnel in court, as necessary and upon adequate notice.

The County agrees to create and manage a countywide hotline for reporting illicit discharges.

### **Construction Site Storm Water Runoff Control**

Construction Site Storm Water Runoff Control requirements are administered through the DuPage County Countywide Stormwater and Flood Plain Ordinance (DCCSFPO). The DCCSFPO establishes a minimum level of regulatory compliance that a development must meet. Pursuant to the DCCSFPO, any community that desires to enforce, either partially or completely, within its boundaries the Construction Site Storm Water Runoff Control provisions of the DCCSFPO shall provide the DuPage County Stormwater Management Planning Committee of the DuPage County Board written notice of that intent.

### **Post Construction Storm Water Management in New Development and Redevelopment**

Post Construction Storm Water Management in New Development and Redevelopment requirements are administered through the DCCSFPO. The DCCSFPO establishes a minimum level of regulatory compliance that a development must meet. Pursuant to the DCCSFPO, any community that desires to enforce, either partially or completely, within its boundaries the Post Construction Storm Water Management in New Development and Redevelopment provisions of the DCCSFPO shall provide the DuPage County Stormwater Management Planning Committee of the DuPage County Board written notice of that intent.

### **Pollution Prevention / Good Housekeeping for Municipal Operations**

The County will organize training in procedures and practices that will minimize the discharge of pollutants from municipal operations into the storm sewer system for staff from the County and Municipality on topics including automobile maintenance, hazardous material storage, landscaping and lawn care, Parking lot and street cleaning, pest control, pet waste collection, road salt application and storage, roadway and bridge maintenance, spill response and prevention, and storm drain system cleaning.

The County will create and update checklists and/or guidance materials to assist staff from the County and Municipality in following the good housekeeping measures outlined in the ILR40 permit.

The County will coordinate shared services to the Municipality, in regards to maintenance of BMPs and associated infrastructure. This may include vegetation management, storm sewer cleanout, street sweeping, and other maintenance activities. The shared services will be determined by the equipment and staff available from participating agencies and outlined in Exhibit D.

### **Monitoring**

The County will be responsible for developing and implementing a monitoring and assessment program. This will include an evaluation of BMPs based on estimated effectiveness from published research accompanied by an inventory of the number and location of BMPs implemented as part of the NPDES program and an estimate of pollutant reduction resulting from the BMPs. The County will also support and contribute to the DuPage River Salt Creek Workgroup ambient monitoring of waterways which will be performed within 48 hours of a precipitation event greater than or equal to one quarter inch in a 24-hour period. At a minimum, analysis of storm water discharges or ambient water quality will include monitoring for total suspended solids, total nitrogen, total phosphorus, fecal coliform, chlorides, and oil and grease. In addition, monitoring will be performed for any other pollutants associated with storm water runoff for which the receiving water is considered impaired pursuant to the most recently approved list under Section 303(d) of the Clean Water Act.

### **Annual Reporting**

The County agrees to prepare the countywide annual report on behalf of the Municipality and post the completed report on the County's website. The annual report is required by the IEPA and is due by June 1<sup>st</sup> of each year in accordance with General NPDES Permit No. ILR40 (or a revised date as determined by the IEPA). The County will submit a copy of the annual report to both the IEPA and the Municipality.

## **Exhibit B Municipal Tasks Scope of Work**

## **Public Education and Outreach on Storm Water Impact**

The Municipality will be responsible for promoting and advertising educational events and workshops within their jurisdictions. Municipalities are responsible for distributing educational materials to residents within the Municipality. The Municipality will also be responsible for ensuring their own staff attends workshops geared towards municipal staff on green infrastructure, good housekeeping, and other applicable topics to prevent and reduce the discharge of pollutants into waterways.

## **Public Involvement / Participation**

The Municipality will be responsible for advertising and promoting meetings, hearings, and events online and within their jurisdictions. The Municipality will also be responsible for ensuring attendance by their own staff, as necessary.

## **Illicit Discharge Detection and Elimination**

The Municipality agrees to provide the County with a current storm sewer atlas.

The Municipality agrees to provide annual updates of the storm sewer atlas to the County.

The Municipality agrees to assign to the County any rights of access to the storm drainage system under the jurisdiction of the Municipality as the County deems necessary.

The Municipality shall provide County staff with a copy of the most recent version of the Municipality's MS4s atlas (system map) and a map/guide of all MS4 outlets within the Municipality's municipal territory. The Municipality shall further make available for review and copying by the County, upon request, any additional Municipality records pertaining to the location of MS4 components and, or, any connections thereto, and, or, suspected illicit discharges, which review and copying by County staff shall be allowed in the same manner as Municipality staff. The Municipality shall further provide proof of the Municipality's (and County's) right to access any property owned or controlled by a third-party. The Municipality shall notify the County if and when new records are created and if additional parcels are annexed by the Municipality.

The Municipality shall grant the County access to all Municipality -owned parcels, Municipality right-of-ways, Municipality easements and license areas and all other areas where the Municipality has the right to access whenever such access by the County is necessary for, or prudent to, its performance of the work identified in Exhibit A. In the event the Municipality is unable to obtain permission for the County to access and enter upon any property, the County shall be excused from performing the work that necessitated the need to access that property.

The Municipality shall be responsible for the enforcement of any violations of the Municipality's IDDE ordinance within the municipal limits of the Municipality. In the event the Municipality wishes to use County staff as witnesses, or consulting experts, in any enforcement proceeding related to the County's work pursuant to this Agreement, the parties agree that a separate Agreement shall be entered into for such purpose; and the parties acknowledge that the Scope of Work County Tasks (Exhibit A) and Hourly Rates (Exhibit C) do not contemplate IDDE ordinance enforcement activities.

The Municipality agrees to provide timely prosecution of any person found to be in violation of their ordinance that fail to come into compliance in accordance with the ordinance, provided that the Municipality receives timely notification from the County that a violation exists. Further, the County agrees to provide prosecution witnesses required without cost to the Municipality.

The Municipality shall provide the County with documentation of any enforcement action and prosecution from the previous one (1) year for inclusion in the annual report.

### **Construction Site Storm Water Runoff Control**

As review assistance is required, the Municipality shall forward copies of permit submittals to the County in accordance with the DCCSFPO.

### **Post Construction Storm Water Management in New Development and Redevelopment**

As review assistance is required, the Municipality shall forward copies of permit submittals to the County in accordance with the DCCSFPO.

### **Pollution prevention/ good housekeeping for municipal operations**

The Municipality will be responsible for ensuring that all applicable staff positions attend appropriate training for their duties to prevent and minimize the discharge of pollutants into waterways. The Municipality will also be responsible for ensuring their staff and procedures adhere to good housekeeping measures in order to minimize the discharge of pollutants from municipal properties, infrastructure, and operations. The Municipality may choose to partner with the County to share services for maintenance of BMPs and associated infrastructure.

### **Monitoring**

The Municipality shall provide to the County locations and details on BMPs implemented as part of the NPDES program within their jurisdictions for inclusion in the BMP inventory.

### **Reporting**

The Municipality will be responsible for ensuring that the County has all applicable documentation for inclusion in the annual report by May 1 of each year (or one month prior to the due date of the annual report as determined by the IEPA). Documentation shall include details on how the Municipality promoted education and outreach efforts within their jurisdiction. The Municipality will provide any documentation on IDDE enforcement. The Municipality will also be responsible for providing the County with current staff headcounts for recordkeeping and reporting of good housekeeping related training.

The Municipality will be responsible for posting the Annual Report on their website, or providing a link on their website to the Countywide Annual Report.

**Exhibit C**  
**Hourly Rates**

DuPage County Stormwater Management Hourly Rates for completion of NPDES ILR40 Minimum Control Measures and maintenance tasks as requested by the Municipality. The Hourly Rates (Rates) listed below may be increased by the County up to two percent (2%) one time during each calendar year.

<b>Position</b>	<b>Direct Rate</b>	<b>Billing Rate (Direct Rate x 1.4)</b>
Intern	\$10.00 - \$15.40	\$14.00 - \$21.56
Environmental Technician	\$23.00 - \$30.92	\$32.20 - \$43.29
Senior Environmental Technician	\$23.08 - \$31.02	\$32.31 - \$43.43
Water Quality Specialist	\$24.92 - \$31.98	\$34.89 - \$44.72
Water Quality Supervisor	\$32.59 - \$43.81	\$45.63 - \$61.33
Communications Supervisor	\$26.96 - \$34.61	\$37.74 - \$48.45
Wetland Specialist	\$24.00 - \$38.95	\$33.60 - \$54.53
Wetland Supervisor	\$33.00 - \$44.36	\$46.20 - \$62.10

Labor Rates associated with use of County equipment are as follows:

Crew Leader \$45/ hour  
 Senior Maintenance Worker \$40/ hour  
 Maintenance Worker \$35/hour

**Exhibit D**  
**Standard Rates**

Equipment will be paid for on an hourly basis per Illinois Department of Transportation rates according to EquipmentWatch.com (formerly Rental Rate Blue Book) plus hourly rates for required staff according to Exhibit C. All equipment to be used will be agreed upon prior to the commencement of work. Rates are subject to change by providing 60 days written notice to the Municipality.





**DUPAGE  
COUNTY**

Watershed  
Management

Water  
Quality

Floodplain  
Mapping

Regulatory  
Services

Flood Operations  
& Maintenance



## STORMWATER MANAGEMENT

630-407-6700  
stormwatermgmt@dupageco.org

[www.dupageco.org/swm](http://www.dupageco.org/swm)

May 22, 2020

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

Re: AFIR for NPDES Phase II MS4 General Stormwater Permit  
IL40 0502 DuPage County Stormwater Management & Co-Permittees  
March 1, 2019 – February 29, 2020

Enclosed is the County of DuPage's Annual Facility Inspect Report (AFIR) for the National Pollutant Discharge Elimination System Phase II MS4 General Stormwater Permit ILR40 for 2019-2020. This report includes activities that were undertaken and achieved for all of DuPage County. Thirty-two municipalities and nine township highway districts have chosen to participate as co-permittees in our permit program to meet the six control measures of Public Education and Outreach, Public Participation/Involvement, Illicit Discharge Detection and Elimination, Construction Site Runoff Control, Post-Construction Runoff Control, and Pollution Prevention/Good Housekeeping for Municipal Operations.

The following list of county, municipalities, and township highway districts (with previously issued permit numbers) are included as participating in the enclosed report of permit achievements for the 2019-2020 permit term:

<b><i>MUNICIPALITY</i></b>	<b><i>ILR40 Permit #</i></b>
<i>DuPage County</i>	<i>0502</i>
<i>Village of Addison</i>	<i>0227</i>
<i>Addison Township</i>	<i>0001</i>
<i>Village of Bartlett</i>	<i>0286</i>
<i>Village of Bensenville</i>	<i>0292</i>
<i>Village of Bloomingdale</i>	<i>0295</i>
<i>Bloomingdale Township</i>	<i>0013</i>
<i>Village of Burr Ridge</i>	<i>0304</i>
<i>Village of Carol Stream</i>	<i>0308</i>
<i>Village of Clarendon Hills</i>	<i>0175</i>
<i>City of Darien</i>	<i>0180</i>
<i>Village of Downers Grove</i>	<i>0183</i>
<i>Downers Grove Township</i>	<i>0040</i>
<i>City of Elmhurst</i>	<i>0187</i>
<i>Village of Glen Ellyn</i>	<i>0199</i>



**DUPAGE  
COUNTY**

Watershed  
Management

Water  
Quality

Floodplain  
Mapping

Regulatory  
Services

Flood Operations  
& Maintenance

## STORMWATER MANAGEMENT

630-407-6700  
stormwatermgmt@dupageco.org

[www.dupageco.org/swm](http://www.dupageco.org/swm)

<i>Village of Glendale Heights</i>	0342
<i>Village of Hanover Park</i>	0347
<i>Village of Hinsdale</i>	0355
<i>Village of Itasca</i>	0360
<i>Village of Lemont</i>	0497
<i>Village of Lisle</i>	0376
<i>Lisle Township</i>	0079
<i>Village of Lombard</i>	0378
<i>Milton Township</i>	0086
<i>City of Naperville</i>	0396
<i>Naperville Township</i>	0092
<i>Village of Oak Brook</i>	0407
<i>City of Oakbrook Terrace</i>	0232
<i>Village of Roselle</i>	0437
<i>Village of Villa Park</i>	0463
<i>City of Warrenville</i>	0274
<i>Village of Wayne</i>	0500
<i>Wayne Township</i>	0149
<i>City of West Chicago</i>	0466
<i>Village of Westmont</i>	0254
<i>City of Wheaton</i>	0470
<i>Village of Willowbrook</i>	0255
<i>Village of Winfield</i>	0474
<i>Winfield Township</i>	0155
<i>City of Wood Dale</i>	0478
<i>Village of Woodridge</i>	0480
<i>York Township</i>	0159

If you have any questions about the information contained within the attached annual report submittal, please call (630) 407-6680.

Regards,

Sarah Hunn, P.E., CFM

Director

DuPage County Stormwater Management





# Illinois Environmental Protection Agency

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

## Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

### for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.*

Report Period: From March, 2019 To March, 2020

Permit No. ILR40 0502

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

Name: Sarah Hunn Mailing Address 1: 421 N County Farm Rd

Mailing Address 2: \_\_\_\_\_ County: DuPage

City: Wheaton State: IL Zip: 60187 Telephone: 630.407.6700

Contact Person: Mary Beth Falsey Email Address: falsey@dupageco.org  
(Person responsible for Annual Report)

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

County of DuPage  
41 municipalities and townships listed on attached page

#### THE FOLLOWING ITEMS MUST BE ADDRESSED.

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

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

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

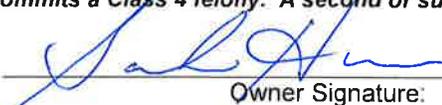
C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

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

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

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

**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

  
Owner Signature:

Sarah Hunn

Printed Name:

05.26.2020  
Date:

Director of Stormwater Management

Title:

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

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION #19  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

**SECTION A**

No changes were made to Best Management Practices during the reporting year from the County of DuPage 2018 Notice of Intent, Permit No. ILR40 0502 dated May 4, 2018.

**SECTION B****Section A:****Public Education and Outreach****A1. Distribution of Paper Material****Goal:**

*DCSM has created several handouts and brochures pertaining to sources of pollutants in waterways and water quality BMPs. These, as well as handouts from other entities, are distributed at public events, and are available at the office of each co-permittee MS4. These materials are also available online. Informational topics include rain barrels, rain gardens, native plants, other green infrastructure techniques, citizen monitoring of waterways and seasonal BMPs for the spring, summer, fall and winter. These materials will be updated as needed to incorporate new and updated information, including the effects of climate change on stormwater impacts. Each co-permittee is responsible for making educational materials available in their office and on their websites.*

**Milestone (Year 2):**

*Update or create 2 digital or print materials for distribution by partner agencies.*

**Status:**

During the reporting year, DuPage County Stormwater Management (DCSM) staff created or updated the following educational materials:

Brochures update to include climate change information:

- Best Management Practices
- Back to Basics
- Adopt-a-Stream
- Sustainable Lawn Care Practices
- Emergency Operations Brochure
- Falling into Winter
- Green Infrastructure
- IDDE Monitoring
- Living on a Stream
- Pet Waste

These and other educational materials are distributed at events, at the DCSM offices, are shared with municipalities and townships for distribution, and are available on our website:

[https://www.dupageco.org/EDP/Stormwater\\_Management/1163/](https://www.dupageco.org/EDP/Stormwater_Management/1163/)

Co-permittees made available these and other materials available in offices, posted on websites and/or by providing a link to the DCSM website.

**A2. Speaking Engagement****Goal:**

*DCSM will coordinate, host, and present at least one workshop in each watershed per year on topics including water quality efforts for the watersheds, methods for pollutant reduction, during and after construction BMPs, native vegetation, and green infrastructure. Presentations will include information on the potential impacts and effects of stormwater discharge due to climate change as applicable. Each partner agency will be responsible for promoting and advertising workshops within their jurisdictions.*

**Milestone (Year 2):**

*Conduct 7 presentations per year.*

**Status:**

DCSM staff presents at and hosts educational workshops and conferences throughout the county to educate the general public as well as professionals about water quality trends and issues. Workshops are held in every major watershed at least twice per year. Some of these workshops are open to all members of the public, while others are specific training for stormwater professionals. The following presentations were made by DCSM staff during the reporting year:

Event	Date	Location	# of Attendees	General Category	Involvement
MS4 Implementation Seminar	3/7/2019	Countywide	100	Seminar	Presenter
APWA Awards Ceremony	3/15/2019	Regional	100	Other	Speech
Pollution Prevention Seminar for MS4 Communities	4/10/2019	Countywide	200	Seminar	Host
MPC Calumet Stormwater Collaborative	5/3/2019	Regional	50	Workshop	Presenter
East Branch Watershed Workshop	5/22/2019	East Branch Watershed	50	Workshop	Host
West Branch Watershed Workshop	5/29/2019	West Branch Watershed	50	Workshop	Host
Salt Creek Watershed Workshop	5/31/2019	Salt Creek Watershed	50	Workshop	Host
DuPage River Study Meeting	6/3/2019	Lisle	50	Workshop	Presenter
American Institute of Architects NE IL Quarry Tour	7/18/2019	Elmhurst	50	Tour	Host
Woodridge-Green Valley Wastewater Plant Tour	7/25/2019	Countywide	20	Tour	Sponsor/Host
Flood Control Facility Tour	7/30/2019	Countywide	10	Tour	Host

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IAFSM Young Professionals Quarry Tour	9/12/2019	Elmhurst	40	Tour	Host
Fall NFIP 101 Workshop	9/18/2019	Countywide	50	Workshop	Host
ASCE Awards Ceremony	10/2/2019	Regional	200	Other	Speech
Bulletin 70 Updates Seminar	10/23/2019	Regional	100	Seminar	Presenter
Storm Water Solutions Conference	11/13/2019	Regional	100	Conference	Presenter
Green Infrastructure Seminar for MS4 Communities	12/4/2019	Countywide	200	Seminar	Host
Healthy Streams Workshop	12/5/2019	Countywide	100	Workshop	Host/Presenter
Floodplain Mapping Meeting	12/17/2019	Lisle	50	Workshop	Presenter
NLRS Annual Conference	12/3-12/4, 2019	Statewide	100	Conference	Presenter
2019 IAFSM Annual Conference	3/13-3/14, 2019	Statewide	100	Seminar	Presenter
Wetland Plant Identification Workshop	6/5-6/7, 2019	Countywide	30	Class	Host
Environmental Summit	1/30/2020	Countywide	400	Seminar	Exhibit/Presenter
Beyond the Basics Seminar	2/27/2020	Countywide	150	Conference	Exhibit/Host
SCARCE Quarry Tour	2/28/2020	Elmhurst	30	Tour	Host

### A3. Public Service Announcement

**Goal:**

*DCSM will utilize technology to enhance outreach efforts detailing water quality trends and highlighting practices that can reduce the transport of pollutants into waterways. DCSM will promote informational outlets using a Stormwater Management monthly e-newsletter, direct media relations, press releases and advisories to promote seasonal BMPs, events, and other stormwater-related news.*

**Milestone (Year 2):**

*Broadcast 12 messages within the permit area detailing water quality trends.*

**Status:**

During the reporting year, DCSM staff disbursed information throughout the countywide co-permittee area on water quality trends, largely through social media. MS4 co-permittees also distributed information (examples in attachments).

- Monthly Newsletter with nearly 11,000 subscribers  
<http://www.dupageco.org/stormwater/news.aspx>
- Facebook, Twitter & Instagram with more than 800 followers  
[www.twitter.com/lovebluedupage](http://www.twitter.com/lovebluedupage)  
[www.facebook.com/lovebluedupage](http://www.facebook.com/lovebluedupage)  
[www.instagram.com/lovebluedupage](http://www.instagram.com/lovebluedupage)
- YouTube with 20 outreach/training videos with approximately 16,000 combined views  
<https://www.youtube.com/user/lovebluelivegreen>

**A4. Community Event****Goal:**

*DSCSM will coordinate with partner agencies to present at community events in each watershed on topics including water quality efforts for the watersheds and pollutant reduction, native vegetation, and green infrastructure.*

**Milestone (Year 2):**

*Host or attend 3 events per watershed per year to educate the public on water quality topics.*

**Status:**

DSCSM staff attends, presents at, and hosts events throughout the county to educate the public about water quality topics and issues. Many of these events are open to all members of the public. During the reporting year, DSCSM staff hosted and attended the following events:

Events hosted /attended/ presented at by DuPage County staff

Event	Date	Location	# of Attendees	General Category	Involvement
Green STEM: Water Dynamics	3/1/2019	Countywide	20	Class	Sponsor/Host
Meadows Glens Elementary School STEM Night	3/14/2019	Naperville	639	Open House	Exhibit
Solving Water Issues in Your Yard Workshop	3/24/2019	Countywide	100	Workshop	Sponsor
Downers Grove South H.S. Quarry Tour	4/11/2019	Downers Grove	30	Tour	Host/Quarry Tour
Glen Ellyn Library Water Quality Flag	4/15/2019	Glen Ellyn	20	Water Quality Flag	Sponsor
2019 Sustainable Design Challenge	4/16/2019	Countywide	200	Other	Sponsor/Host
York H.S. Quarry Tour	4/23/2019	Elmhurst	60	Tour	Host
Tree-mendous Fair	4/26/2019	Wheaton	100	Open House	Exhibit
Heritage Lakes Elementary School Water Quality Flag	5/3/2019	Carol Stream	200	Water Quality Flag	Sponsor
York Center Elementary School Water Quality Flag	5/3/2019	Carol Stream	200	Water Quality Flag	Sponsor
COD Quarry Tour	5/9/2019	Elmhurst	20	Tour	Host
Growing Green Garden Market	5/11/2019	Countywide	100	Community Event	Sponsor/Exhibit
DuPage River Sweep	5/18/2019	Countywide	800	Other	Sponsor
Molex Earth Week	5/21/2019	Countywide	75	Community Event	Exhibit
Elsie C. Johnson Elementary School Water Quality Flag	5/31/2019	Hanover Park	200	Water Quality Flag	Sponsor

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Wood Dale Public Works Open House	6/13/2019	Wood Dale	150	Open House	Exhibit
West Branch DuPage River Projects Tour	6/14/2019	West Branch Watershed	20	Tour	Host/Sponsor
Woodridge Jubilee	6/15/2019	Woodridge	100	Community Event	Exhibit
WET Lab Tour	6/28/2019	Regional	20	Tour	Sponsor
Cantigny Dog Days	6/29/2019	Countywide	200	Community Event	Exhibit
Flood Control Facility Tour	7/12/2019	Countywide	20	Tour	Sponsor/Host
Lemont Heritage Fest	7/13/2019	Lemont	100	Community Event	Exhibit
Westmont Cruisin' Nights & Street Fair	7/25/2019	Westmont	100	Community Event	Exhibit
Lisle French Market	8/17/2019	Lisle	50	Community Event	Exhibit
2019 Public Quarry Tour	9/21/2019	Countywide	500	Tour	Host
Carol Stream Water Reclamation Center Open House	10/5/2019	Carol Stream	100	Open House	Exhibit
Parking Lot and Sidewalk Deicing Workshop	10/17/2019	Countywide	100	Seminar	Sponsor
Public Roads Deicing Workshop	10/24/2019	Countywide	150	Seminar	Sponsor
Pumpkin Smash 2019	11/2/2019	Countywide	200	Other	Sponsor
2019 Thanksgiving Cooking Oil Collection	11/30/2019	Countywide	500	Other	Sponsor
Downers Grove North H.S. Quarry Tour	12/5/2019	Downers Grove	30	Tour	Host
"Living Water" Teacher Graduate Course	6/24-6/28, 2019	Countywide	25	Class	Sponsor
DuPage County Fair/Planter Box Display	7/24-7/28, 2019	Countywide	1000	Community Event	Exhibit

Events hosted /attended/ presented at by co-permittees

MS4	Event
Addison Township	Electronic Recycling, Rain Barrel presentation to the Township Board
Bensenville	Bi-Annual Public Works Open house promotes importance of water quality as well as the booths at the summer music in the park events. A booth is setup at our weekly summer music in the park event to promote water quality and recycling.
Bartlett	Host S.T.E.M. U-46 students each summer - 40 hours soil/erosion control, storm water and utility projects
Burr Ridge	The Village hosts a site for electronics and textiles recycling at 451 Commerce St., Burr Ridge, open weekdays from 7 a.m. to 3 p.m.

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Carol Stream	A Wastewater Treatment Plant Open House was held on Saturday, October 5, 2019, and attracted over 250 to tour the sanitary sewage treatment facility and actively participate in the environmental and conservation education efforts hosted by participating agencies. The event included guided tours of the plant, educational demonstrations in the lab, storm water and environmental information tables staffed by representatives of DuPage County Stormwater, The Conservation Foundation and the local Library District, as well as a rain-barrel raffle.
	On April 19, 2019 staff and Mayor Saverino, in partnership with the DuPage Mayors & Managers Conference (DMMC), filmed a short video highlighting the importance of a capital funding bill for projects such as stream bank stabilization. This video will include statements from several DMMC participant Mayors. The goal of the videos is to highlight support and passage of a capital bill by the Illinois General Assembly this session.
	Our Police Chief attended a press conference hosted by the DuPage County Health Department to promote the RxBox initiative. Carol Stream was presented with an award for its leadership administering the RxBox program. Since 2009, we have collected 12,794 pounds of prescription medicines to be destroyed, removed from potential abuse and contamination of the environment.
	Trustee Gieser, Trustee-Elect John Zalak, Public Works and Administration staff attended the 2019 Arbor Day tree-planting event at Roy DeShane School on Friday. The State tree, a White Oak, was planted.
Clarendon Hills	Hosted Arbor Day activities this year aimed at improving the environment and stormwater quality. Also hosted an event in September 2019 with SCARCE to collect materials for recycling and prevent contaminants from being released into the environment.
Downers Grove Township	Electronic Recycling monthly and paper shredding event once a year
Elmhurst	City staff attended multiple APWA, IASFM, and DuPage River Salt Creek Workgroup events. The City also hosted several community events in conjunction with local organizations like The Conservation Foundation.
	The City of Elmhurst hosts oil recycling around Thanksgiving and pumpkin after Halloween. Additionally, the City co-host an recycling event w/ Elmhurst College annually. Also, the City participates in the DuPage River Salt Creek Workgroup which promotes water quality; specifically, for Elmhurst along Salt Creek.
	Elmhurst hosts quarterly electronics recycling events at the Public Works Garage.
	Hosts annual pumpkin recycling event.

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	Hosts an annual cooking oil recycling event.
Glen Ellyn	Prairie Path Clean-up & Recycle Extravaganza April 27
	Earth Day Celebration – Lake Ellyn w/ Glen Ellyn Park District April 28
	DuPage River Sweep – Churchill Woods Forest Preserve w/ Conservation Foundation & GE Park Dist. May 18
	Tom Topor participated as a judge for the 2019 Sustainable Design Challenge April 16
Glendale Heights	Annually hosts a Health and Safety Fair and provides residents and other interested parties information related to stormwater quality at the fair. The Village also visits local schools for Public Works Week and discusses stormwater and related issues with students.
Hanover Park	We have an Environmental Committee that encourages public outreach and hosts events like River Sweep and Storm Drain Medallions. Staff also attended numerous stormwater training events.
Itasca	The Village has partnered with the Salt Creek Watershed Network (as well as the County) to provide a general education and outreach program on stormwater quality.
Lemont	Canal clean up, Heritage Fest and Recycling Days
Lisle	French Market event in Lisle on Saturday August 17, 2019. A Water Quality Information booth was set up to answer questions and interact with Lisle residents.
Lisle Township	Lisle Township Road District co-hosts two free Car Care Clinics for seniors in May and October. The events assist in car maintenance, presents safety programs and helps to increase senior involvement. Stormwater materials are on display and available to take home.
Lombard	Manned a table at the Lombard Senior Fair on 10/2/19 about environmental matters.
Roselle	September 22, 2019 - Public Safety Open House and Touch-a-Truck
	June 17, 2019 - Roselle Public Library Morning Explorers Touch-a-Truck
Villa Park	E-Waste (Electronic recycling once a month).
Warrenville	Public Works Week Open House (May 2019). See attachment
Wayne Township	A rain barrel sale was hosted through the Conservation Foundation and a native plant sale was hosted through the DuPage County Forest Preserve District. These were advertised in the Wayne Township Road District Newsletter.

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West Chicago	Members of the West Chicago Environmental Commission staffed a booth from 9:00 a.m. until early afternoon when the event was ended due to heavy rain. The event was the Annual Blooming Fest in West Chicago. The group answered questions related to recycling, water conservation, and other environmental related topics. Staff attracted people to the booth using give-a-ways that included reusable shopping bags, and chip clips donated by Groot Waste and Recycling Co., toilet leak detection tablets, and shower timers. Printed information downloaded from the DuPage County Storm Water management website was also available for people to take. Printed information pertaining to storm water management and recycling was inserted in the reusable bags before they were given away. Information was also provided for the West Chicago Adopt a Highway Program and rain barrel sale through the City website.
	The Water Treatment Plant Superintendent conducted a total of 3 plant tours provided to residents, students, and educators between March 1, 2019 – March 1, 2020.
Wheaton	Pumpkin Composting, Native Plant Sale, Paper Shredding
Woodridge	In April 2019 the Village of Woodridge sponsored Arbor Day activities with a local grade school along with being named a Tree City USA for the 28th year.
York Township	We participate in Touch A Truck with Village of Lombard, York Center Park District and Salt Creek Schools

Events hosted/ attended by S.C.A.R.C.E. - supported by DuPage County:

Date	Education	Type	Group	Town	# of Participants
3/4/2019	Program & Workshop Opportunities, LP, SDM, BMP, COC, Rx, Upcoming Events	COL.	Illinois Benedictine University	Lisle	35
3/4/2019	Upcoming Events, Newsletters, SDM, LP, Q&Q, BMP	COL.	Illinois Benedictine University	Lisle	50
3/6/2019	Workshop & Program Opportunities, Herbicide, LP, SDM, COC, COR, Upcoming Events, Rx, Coal Tar, Newsletters	COM.	St. John Lutheran Church	Wheaton	25
3/7/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Daisy Scouts	Wheaton	17
3/7/2019	COO, COC, LP	GOV.	DuPage County Sheriff Department	Wheaton	2

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3/11/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Glen Ellyn	15
3/11/2019	Program & Workshop Opportunities, WQF, Upcoming Events, SDM, LP, COR, Rx	COM.	Clarendon Hills Women's Club	Clarendon Hills	22
3/12/2019	Program & Workshop Opportunities, WQF, Upcoming Events, SDM, LP, COR, Rx	COM.	PEO	Winfield	21
3/13/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Villa Park	11
3/14/2019	Program & Workshop Opportunites, Q&Q, LP, SDM , Rx, COR, Upcoming Events, Newsletters	B.	Earth Friendly Products	Addison	61
3/14/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Lombard	13
3/15/2019	Program & Workshop Opportunities, LP, Herbicide, NP, RB, Q&Q, Fertilizer, Nutrient Load, COR, Lead - Free Hoses, GC, Upcoming Events, Newsletters	COM.	Grace United Methodist Church	Naperville	75
3/16/2019	Upcoming Events, Rx, COR, Q&Q, LP SDM	COM.	Regional Office of Education	Naperville	60
3/20/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Cub Scouts	Elmhurst	19
3/27/2019	Q&Q, SWM, Stormdrain Medallions, Pick - Up 5	GOV.	State Sen. Suzy Glowiak's Office	DuPage County	1
3/27/2019	NP, RB, BMP, Q&Q, SWM	Gov. , B	DuPage County Fairgrounds	Wheaton	2
3/28/2019	Q&Q, LP, Stormdrain Medallions, Rx, NP Upcoming Events, SWM, COR, Pick - Up 5	B.	Jel Sert	West Chicago	2
4/3/2019	Program & Wokshop Opportunites, Community Gardens, COC	COM.	St. Mark's - Green Team	Glen Ellyn	60
4/4/2019	WQF	B.	Invesco	Downers Grove	11
4/4/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Boy Scouts	Downers Grove	13

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4/5/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Wheaton	15
4/8/2019	LP, SDM, Rx, COR, Q&Q, BMP, Upcoming Events	COL.	College of DuPage	Glen Ellyn	47
4/8/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Daisy Scouts	Elmhurst	17
4/8/2019	Planning Meeting for Upcoming Program / Tour	GOV. / COM.	DuPage Water Commission / Cool Cities	Elmhurst	1
4/9/2019	RB, NP, PP, SWM, BMP, Rx, Q&Q, COR, Nutrient Load, GC, LP	COM.	Metropolitan Family Services	Wheaton	12
4/10/2019	Staff Training - RB, NP, PP, SWM, BMP, Rx, Q&Q, COR, Nutrient Load, GC, LP	GOV.	Glen Ellyn Park District	Glen Ellyn	30
4/10/2019	Staff Training- RB, NP, PP, SWM, BMP, Rx, Q&Q, COR, Nutrient Load, GC, LP	GOV.	Elmhurst Public Library	Elmhurst	24
4/11/2019	Program Opportunities, Volunteer Projects, WSM, SDM, COR, Rx,	COM.	Girl Scout Service Unit	Villa Park	11
4/12/2019	Staff Training- RB, NP, PP, SWM, BMP, Rx, Q&Q, COR, Nutrient Load, GC, LP	GOV.	Glen Ellyn Public Library	Glen Ellyn	83
4/15/2019	Water Quality Flag Ceremony	GOV.	Glen Ellyn Public Library	Glen Ellyn	12
4/17/2019	COO, Q&Q, NP, BMP	COM.	YWCA	Addison	1
4/18/2019	Stormdrain Medallions	B.	Vaxcel	Carol Stream	27
4/22/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Daisy Scouts		13
4/24/2019	NP, Rx, COR, COO	B.	V3	Woodridge	63
4/24/2019	SDM, LP, Q&Q, LP	COL.	Human Service Network Club	Glen Ellyn	15
4/24/2019	Planning Meeting for Summer Camp Programs	GOV.	Addison Park District	Addison	1
4/25/2019	Q&Q, Rx, Leak Detection Tablets, WQF, LP, Pick - Up 5, SDM	B.	Ace Hardware	Oak Brook	21
5/6/2019	Program & Workshop Opportunities, LP, Pick - Up 5, Leak Dection Tabs, Rx, COR, Upcoming Events, Newsletters	COM.	St. John Lutheran	Lombard	33

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5/7/2019	Q&Q, BMP, SWM, RB, PP, GB, Rx, GC, LP, RB, NP, COR, WSM	COM.	DuPage County Water Commission / Cool Cities	Elmhurst	34
5/8/2019	NP, RB, COO, Fertilizers & Pesticides	COM.	DuPage Community / Co-Op Gardens	DuPage County	8
5/8/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Elmhurst	24
5/8/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Wheaton	9
5/11/2019	Growin Green Garden Market	COM.	SCARCE	Glen Ellyn	322
5/11/2019	Growin Green Garden Market	COM.	SCARCE	Glen Ellyn	30
5/14/2019	SDM Training	COM.	Boy Scouts	Downers Grove	1
5/14/2019	GC, Rx, Lead - Free Hoses	COM.	Ray Graham Association	Elmhurst	30
5/22/2019	SDM Training	COM.	Daisy Troop	Woodridge	2
5/22/2019	SDM, Rx, COR	GOV.	Village of Bartlett	Bartlett	12
5/23/2019	WSM	COM.	Warrenville Public Works	Warrenville	50
5/28/2019	NP, COC, Flooding in DPC, Pesticide & Fertilizer, Upcoming Events, Lead - Free Hoses, Newsletters	COM.	Villa Park Garden	Villa Park	63
6/1/2019	WSM	COM. / GOV.	Glenbard Wastewater Treatment Facility	Glen Ellyn	75
6/5/2019	Rx	COM. / GOV.	Lombard Junior Women's	Lombard	37
6/14/2019	Rx, Upcoming Events	COM.	Healthy Lombard	Lombard	16
6/14/2019	Richmond Education Garden, SWM, Green Infrastructure For New Train Station	GOV.	Village of Clarendon Hills	Clarendon Hills	1
6/20/2019	Q&Q, BMP, NP, PP, RB, SWM, Flooding in DuPage, Rx, COR, LP, SDM, WQF	COL.	College of DuPage	Glen Ellyn	10
6/21/2019	Floodplain Model	GOV., B, COM.	IAFSM	Woodridge / Bartlett	2
7/1/2019	Flood Plain Model	COM. / T	IAFSM	Woodridge / Bartlett	2

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7/2/2019	Planning Environmentally Focused Girl Scout Event	COM.	Girl Scouts of Greater & Northwest Indiana	DuPage County	2
7/12/2019	Mind Your Health Fair - Rx, Q&Q	COM.	NAMI	Wheaton	50
7/13/2019	Q&Q, COR, Rx, COO	GOV.	North Central College	Naperville	550
7/14/2019	Rx, COR, Q&Q, NP, SWM, BMP, Newsletters, Leak Detection Tablets	COM.	Elmhurst Garden Walk & Faire	Elmhurst	750
7/16/2019	NP, RB, PP, Q&Q, BMP, SWM, Rx, Leak Detection Tablets, COR, LP	GOV.	Village of Westmont	Westmont	83
7/16/2019	Q&Q, Rx, COR, Leak Detection Tablets	GOV.	Westmont Public Library	Westmont	10
7/24/2019	STEM - A- Palooza - NP, PP, GB, SWM, BMP, Q&Q, GR, Rx, COC, COO, COW, COR, Phos., WSM, LP, Pick - Up 5, WQF	COM.	SCARCE / DuPage County Fairgrounds	Wheaton	750
7/25/2019	STEM - A- Palooza - NP, PP, GB, SWM, BMP, Q&Q, GR, Rx, COC, COO, COW, COR, Phos., WSM, LP, Pick - Up 5, WQF	COM.	SCARCE / DuPage County Fairgrounds	Wheaton	750
7/26/2019	STEM - A- Palooza - NP, PP, GB, SWM, BMP, Q&Q, GR, Rx, COC, COO, COW, COR, Phos., WSM, LP, Pick - Up 5, WQF	COM.	SCARCE / DuPage County Fairgrounds	Wheaton	750
7/27/2019	STEM - A- Palooza - NP, PP, GB, SWM, BMP, Q&Q, GR, Rx, COC, COO, COW, COR, Phos., WSM, LP, Pick - Up 5, WQF	COM.	SCARCE / DuPage County Fairgrounds	Wheaton	750
7/28/2019	STEM - A- Palooza - NP, PP, GB, SWM, BMP, Q&Q, GR, Rx, COC, COO, COW, COR, Phos., WSM, LP, Pick - Up 5, WQF	COM.	SCARCE / DuPage County Fairgrounds	Wheaton	750
7/30/2019	Water Quality Flag	COM.	Cantigny	Wheaton	1
7/30/2019	Q&Q, LP, Pick - Up 5	GOV.	DuPage Animal Control	Wheaton	23
8/1/2019	Rx, Upcoming Events	COM.	Itasca Public Library	Itasca	11
8/2/2019	WSM, Q&Q, SDM, BMP, NP, PP	COM.	Addison Park District	Addison	10

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8/6/2019	Rx, COR, Upcoming Events	COM. / GOV.	Wood Dale Police Department - National Night Out	Wood Dale	75
8/6/2019	Rx, COR, Upcoming Events	COM. / GOV.	Westmont Police Department - National Night Out	Westmont	80
8/9/2019	RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	GOV.	Elmhurst Public Library	Elmhurst	140
8/12/2019	WQF, Rx, BMP, SWM, GB, NP, PP, Q&Q	COM.	NAMI	Wheaton	1
8/14/2019	Rx, COR, Nutrient Load, Fertilizer, Pesticide	COM.	AM Rotary	Wheaton	20
8/14/2019	Rx, SDM, NP, RB, Cysterns, COC	COM.	League of Women Voters	Naperville	6
8/14/2019	NP, Pollinator Gardens	COM.	Immigration Solidarity of DuPage	Lombard	3
8/15/2019	Program Opportunities & Workshops, WSM	GOV.	Glen Ellyn Public Library	Glen Ellyn	2
8/21/2019	Planning Meeting For Children's Health Month Workshop	GOV.	DPC Health Department	Wheaton	5
8/21/2019	Rx, SDM, COR, LP, Newsletters	GOV.	West Chicago Public Library	West Chicago	14
8/28/2019	Supply Loan - Q&Q Activity	COL.	North Central College	Naperville	1
8/28/2019	SDM Meeting	COM.	The Conservation Foundation	Naperville	1
9/4/2019	Upcoming Events, Program Possibilities	COM.	Lions Environmental Club	Wheaton	1
9/5/2019	WQF, Program & Workshop Opportunities, LP, Pick Up 5, SDM, Q&Q, COR, Rx, Newsletters	B.	Docu Sign	Warrenville	35
9/5/2019	COO, LP, Pick - Up 5, Rx, COR	COM.	Kiwanis Club	Lombard	13
9/9/2019	Rx, Q&Q, Leak Detection Tablets	COM.	Lions Club	Elmhurst	21
9/10/2019	WQF, Rx, Newsletters, LP, Pick - Up 5, Q&Q, SDM, COR, COO, COC, Fertilizer, Pesticides	COL.	North Central College	Naperville	19

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9/12/2019	Program & Workshop Opportunities, WQF, Newsletters, Q&Q, LP, Pick - UP 5, Rx, COR, COO, COC	COM.	NAPO (National Association of Professional Organizers)	Elk Grove Village	68
9/15/2019	Program & Workshop Opportunities, WQF, Newsletters, Q&Q, SDM, LP, Pick - UP 5, Rx, COR	COM.	St. Andrew's Episcopal Church	Downers Grove	44
9/16/2019	SDM	COL.	North Central College	Naperville	1
9/17/2019	WQF, Program & Workshop Opportunities, COO, COC, GB, Q&Q, RB, Cisterns, Lead - Free Hoses, GR, NP, Fertilizer, Pesticides, Rx, LP, Pick - Up 5, Newsletters	COM.	Bloomingtondale Garden Club	Bloomingtondale	49
9/21/2019	Rx, Leak Detection Tablets, Fertilizer, Q&Q, Herbicide, Road Salt	GOV.	DuPage County Sheriff	Wheaton	200
9/23/2019	WSM Loan	COL.	North Central College	Naperville	23
9/25/2019	SDM, Q&Q, LP	COM.	Girl Scout	Lombard	4
9/28/2019	COR	GOV.	Milton Township	Glen Ellyn	3
10/1/2019	Rx, COR	COM.	Lions Club	Wheaton	60
10/1/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Wheaton	15
10/2/2019	Rx, COR, Upcoming Events, COC, Q&Q, Newsletters	GOV. / COM.	Village of Glendale Heights	Glendale Heights	532
10/3/2019	Program & workshop Opportunities, Herbicide, NP, COC, Q&Q, LP, Rx, SDM, Upcoming Events, Newsletters	COM.	Hawthorne Garden Club	Glen Ellyn	32
10/5/2019	Program Opportunities & Workshops, WSM, SDM, Upcoming Events, Newsletters	COM.	YWCA	Naperville	100
10/5/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load, LP	GOV. / COM.	Downers Grove Sanitary District	Downers Grove	302

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10/5/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load, LP	GOV. / COM.	Carol Stream Public Works	Carol Stream	250
10/8/2019	Rx, Upcoming Events, Newsletter	COM.	Lions Club	Naperville	15
10/22/2019	Program & Workshop Opportunites, Newsletters, Upcoming Events, Pesticide & Fertilizer, COC, Q&Q, LP, Rx, COR, SDM	COM.	Alumni Club of Pi Beta Phi	Glen Ellyn / Wheaton	9
10/26/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Elmhurst	29
10/28/2019	Program Opportunities, Program Planning	B.	Overture	Lombard	1
10/28/2019	RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	COL.	College of DuPage	Glen Ellyn	23
10/29/2019	RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	COL.	College of DuPage	Glen Ellyn	28
10/29/2019	BMP, SWM, BS, NP, PP, WQF, Cistern, GR, Q&Q	GOV.	Village of Clarendon Hills	Clarendon Hills	3
11/1/2019	WQF, Program Planning	D	Cantigny	Wheaton	6
11/5/2019	COR, Rx, Q&Q	GOV.	Elmhurst Public Library	Elmhurst	62
11/7/2019	Program & Workshop Opportunities, COC, COR, Upcoming Events, Newsletters, Rx	COM.	League of Women Voters	Naperville	14
11/8/2019	Q&Q, LP, SDM, Pick - Up 5, Rx, Newsletters, Upcoming Events	COM.	Special Interest Group (SIG)	Lisle	9
11/13/2019	RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	COL.	College of DuPage	Glen Ellyn	24
11/19/2019	Program & Workshop Opportunities	COM.	Gary United Methodist	Wheaton	43
11/20/2019	COC, COR, Rx, Newsletters, Upcoming Events	COM.	Noon Rotary	Wheaton	28

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11/20/2019	Planning Meeting for Upcoming Staff Training	GOV.	Downers Grove Sanitary District	Downers Grove	1
11/26/2019	Planning Upcoming Programs	COM.	Marian Park	Wheaton	1
11/30/2019	Cooking Oil Recycling Event	COM. / GOV.	SCARCE	Elmhurst / Roselle	60
12/3/2019	Q&Q, BMP, NP, GC, GB, SWM, COR, LP, SDM, Road Salt, Beet - 55	GOV.	Regional Office of Education - Buildings & Grounds	Wheaton	19
12/6/2019	Program Opportunities, BMP, Q&Q, RB, LP, SDM	GOV.	Elmhurst Public Library	Elmhurst	2
12/9/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Glen Ellyn	15
12/10/2019	Program Planning Meeting - RB, Q&Q	COM. / GOV.	Marian Park / DuCAP	Wheaton	2
12/13/2019	Planning Meeting for Children's Health Seminar, RB	GOV.	DuPage County Health Department	Wheaton	5
12/16/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	COM.	Girl Scouts	Glen Ellyn	15
12/17/2019	Staff Training - Newsletters, Upcoming Events, WQF, Q&Q, LP, SDM, COC, Rx, COR	GOV.	Downer Grove Sanitary District	Downers Grove	40
12/18/2019	Program Opportunities, WQF, Upcoming Events, LP, SDM	GOV.	Wood Dale Greener Tomorrow	Wood Dale	8
1/6/2020	Train Station Groundbreaking Ceremony	GOV.	Village of Clarendon Hills	Clarendon Hills	50
1/7/2020	Sustainable Design Challenge Planning Meeting	GOV.	DuPage County	Wheaton	1
1/8/2020	Rx Box Program	GOV.	Warrenville Fire Department	Warrenville	1
1/16/2020	WQF, SDM, Newsletters	GOV.	Wood Dale City Council	Wood Dale	20
1/23/2020	WQF, Program Opportunities	COM.	1st United Methodist Church	West Chicago	2
1/25/2020	WSM, Rx, Q&Q, SWM, BMP, Flooding in DuPage, Nutrient Load, SDM, LP, Upcoming Events, Newsletters	COM.	NAACP	Wheaton	45

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1/30/2020	WSM, SDM, WQF, Q&Q, LP, SDM, Leak Detection Tablets	COM.	DuPage County / Conservation Foundation	Naperville	400
2/2/2020	Q&Q, Upcoming Events, Newsletters, Leak Detection Tabs	GOV. / COM.	Forest Preserve District of DuPage County	Oak Brook	511
2/7/2020	RB, Upcoming Events, Program & Workshop Opportunities, NP, PP, GB, SWM, BMP, Q&Q, COC, COO, LP	GOV.	Addison Public Library	Addison	56
2/11/2020	RB, NP, SWM, BMP, Q&Q, Rx, SDM, LP	GOV.	Lisle Library District	Lisle	6
2/11/2020	RB, Upcoming Events, RB Display	GOV.	Roselle Public Library	Roselle	1
2/12/2020	RB, Upcoming Events, RB Display	GOV.	Carol Stream Public Library	Carol Stream	1
2/23/2020	WQF Training - Q&Q, SDM, WSM, Pesticides, Herbicides, LP, Nutrient Load, Beet - 55, NP, Flooding In DuPage, Rx, Upcoming Events, Newsletters	COM.	First United Methodist Church	West Chicago	26
2/27/2020	WQF Staff Training - Q&Q, SDM, WSM, Pesticides, Herbicides, LP, Nutrient Load, Beet - 55, NP, Flooding In DuPage, Rx, Upcoming Events, Newsletters	B.	Cantigny	Wheaton	200

RB-Rain Barrel, NP-Native Plants, PP-Permeable Pavers, GB- Green Building, SWM- Stormwater Management, BMP-Best Management Practices, HHW-Household Hazardous Waste, Q&Q- Quantity and Quality, GR- Green Roof, BS- Bio Swale, RX- Medicine Disposal, COC - Curbside Compost, COO- Backyard Compost, COW- Indoor Compost, COR - Cooking Oil Recycling, Phos- Phosphates, WS- Watershed Model, GWFM-Groundwater Flow Model, CW- Car Washing, SDC- Sustainable Design Challenge, GC- Green Cleaning, LP- Litter Prevention, AB- Anti Bacterial Soap, ER- Electronic Recycling, WL- Wetland, WQF - Water Quality Flag

Type of Group - B - Business, CB - Community Booth, CE - Community Event, COL College, COM - Community Group, GOV - Government, T - Teachers, Y - Youth -

**A5. Classroom Educational Material****Goal:**

*DSCSM will partner with schools and local educational organizations throughout the partnership area on stormwater management and water quality education promoting water quality and environmental efforts using watershed models and other educational tools.*

**Milestone (Year 2):**

*Target at least 10 schools within the permit area with outreach programs per year.*

**Status:**

DuPage County promoted student and teacher education of water quality topics by supporting S.C.A.R.C.E. (School and Community Assistance for Recycling and Composting Education. The following activities were conducted by S.C.A.R.C.E. and supported by DuPage County during the reporting year:

Date	Education	Type	Group	Town	# of Participants
3/5/2019	WQF, Program & Workshop Opportunities, Stormdrain Medallions, LP, Pick - Up 5, Q&Q	T	Westmore E.S.	Lombard	2
3/5/2019	WQF, Program & Workshop Opportunities, Stormdrain Medallions, LP, Pick - Up 5, Q&Q, RB, WSM	T	Ardmore	Villa Park	2
3/7/2019	Stormdrain Medallions, Q&Q, SWM, BMP	T, ST	Neuqua Valley H.S.	Naperville	3
3/7/2019	LP, Pick - Up 5	T, ST	Field E.S.	Elmhurst	8
3/11/2019	Program & Workshop Opportunities, Activities for Eco - Clubs, WSM, SDM, LP	T	School District 45	Villa Park	11
3/14/2019	WSM, RB, NP, PP, GR, SWM, BMP, Q&Q, Rx, COR, Nutrient Load	T, ST	Meadow Glens E.S.	Naperville	285
3/18/2019	WSM Loan	T, ST	York H.S.	Elmhurst	1
3/20/2019	LP, SDM, BMP, Q&Q	T, ST	Hadley Jr. High	Glen Ellyn	1
3/21/2019	Staff Training -	T	Field E.S.	Elmhurst	30
3/28/2019	Summer Teacher Workshop Planning Meeting	T	Marquardt M.S.	Glendale Heights	1
4/5/2019	WSM	T, ST	Waterbury E.S.	Roselle	3
4/11/2019	SDM, LP, Pick - Up 5	T, ST.	Bryan M.S.	Elmhurst	1

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4/16/2019	Sustainable Design Challenge	T, ST	DuPage County Schools	DuPage	8
4/18/2019	SDM, LP, Program Opportunities, Student Activities	T.	Edison M.S.	Wheaton	1
4/18/2019	WQF, NP, COO, COC, Program Opportunities		Wiesbrook E.S.	Wheaton	1
4/22/2019	WSM Loan	T	Pleasant Lane	Lombard	2
4/23/2019	Stormdrain Medallion Training & Application	T, ST	Westmore	Villa Park	3
4/23/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, LP	T, ST	Edison E.S.	Elmhurst	2
4/23/2019	WSM Loan	T, ST	Glenbard South H.S.	Glen Ellyn	1
4/23/2019	Program & Workshop Opportunities, Q&Q, NP, BB, GR, PP, Coal - Tar, Lead - Free Hoses, LP, SDM, Pick - Up 5, Nutrient Load, Rx, COR, GC, Newsletters, Upcoming Events	T,ST	Wheaton North H.S.	Wheaton	5
4/25/2019	RB, NP, SWM, BMP, Q&Q, RX, Leak Detection Tablets, COR, LP, SDM, Pick - Up 5	S.	Ball Horticulture	West Chicago	15
4/29/2019	Conservation Committee Meeting - COO, COC, NP	T	School District 45	Villa Park	9
5/2/2019	Q&Q, SDM	T,ST	Hinsdale South H.S.	Darien	2
5/3/2019	Water Quality Flag Cremony	T, ST	Heritage Lakes E.S.	Carol Stream	40
5/6/2019	LP, Q&Q, RB, BMP, Rx, Upcoming Events	T,ST	Scott E.S.	Naperville	1
5/7/2019	Sustainable Design Challenge Awards Presentation	ST.	DuPage County	Wheaton	6
5/8/2019	WSM Loan	T, ST	Wheaton Christian Grammar	Winfield	1
5/9/2019	Water Quality Flag Ceremony	T,ST	York Center E.S.	Lombard	25
5/10/2019	Q&Q, Rx, BMP, COR	T / COM.	SD 205 & SD 2	Elmhurst / Bensenville	30
5/10/2019	BMP, SWM, Q&Q, LP, PU5	T, ST	Hinsdale South H.S.	Darien	5
5/13/2019	SDM	T, ST	Ardmore E.S.	Villa Park	1
5/17/2019	WSM	T,ST	Elmhurst Academy	Elmhurst	30
5/21/2019	WSM, Q&Q	T,ST	York Center E.S.	Lombard	10
5/31/2019	Water Quality Flag Ceremony	T,ST	Elsie Johnson	Hanover Park	93

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6/24/2019	Living Water Course	T.	SCARCE	DuPage County	17
6/25/2019	Living Water Course	T.	SCARCE	DuPage County	9
6/26/2019	Living Water Course	T.	SCARCE	DuPage County	10
6/27/2019	Living Water Course	T.	SCARCE	DuPage County	10
6/28/2019	Living Water Course	T.	SCARCE	DuPage County	5
8/7/2019	WQF, SDC, Program & Workshop Opportunities, SDC, GB, GR, SWM, PP	T	Fenton H.S.	Bensenville	3
8/9/2019	Program & Workshop Opportunities, Eco Club Ideas, Staff & Student Education	T	Edison M.S.	Wheaton	2
8/16/2019	WQF, Planned Student Activities & Programs for School Year, WSM, SDM, LP	T	Leman M.S.	West Chicago	1
9/6/2019	Q&Q, NP, LP, Pick - Up 5, GC, COO, COC, Fertilizer, Pesticides	T, ST	Edison M.S.	Wheaton	32
9/9/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Leman M.S.	West Chicago	1
9/11/2019	WSM Loan	T,ST	Lace E.S.	Darien	1
9/12/2019	WQF, LP, SDM, Pick - Up 5	T	Wiesbrook E.S.	Wheaton	42
9/14/2019	Majestic Monarchs Workshop, NP, BMP	T	SCACRE	Glen Ellyn	7
9/20/2019	SDM, COR, Q&Q, LP, Pick - Up 5	ST.	Wheaton North H.S.	Wheaton	0
9/20/2019	Q&Q, NP, Rx, GR, SDM, LP, Pick Up 5, Nutrient Load	T	Edison M.S.	Wheaton	62
9/20/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Indian Trail E.S.	Downers Grove	2
9/20/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Belle Aire E.S.	Downers Grove	1
9/24/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T, ST	El Sierra	Downers Grove	2
9/24/2019	SDM	T, ST	Leman M.S.	West Chicago	1
9/25/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Whittier E.S.	Downers Grove	2
9/26/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Pierce Downers E.S.	Downers Grove	2

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9/27/2019	WQF, SDM, LP, Pick -Up 5, Q&Q, COO, COC, Fertilizer, Pesticides, GR, COR, Flooding in DPC, GB, BMP, NP, Rx	T, ST	Benjamin M.S.	West Chicago	6
10/1/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Kingsley E.S.	Downers Grove	5
10/2/2019	Program & Workshop Opportunities, WQF, LP, Q&Q, SDM, Nutrient Load, NP, COR, COC	T,ST	Sandburg M.S.	Elmhurst	2
10/4/2019	WQF	T, ST, Admin	Community Unit School District 200	Wheaton	1
10/9/2019	WQF, NP, LP	T, Admin.	School District 45	Villa Park	11
10/16/2019	WSM Loan	T, ST	Glenbard East H.S.	Lombard	1
10/18/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T, ST	Lester E.S.	Downers Grove	3
10/23/2019	WSM Loan	T	Hawthorne E.S	Elmhurst	1
10/24/2019	WQF Staff Training	T	Western Trails	Carol Stream	32
10/28/2019	Flooding in DPC, Nutrient Load, NP, COC, LP	T,ST	Sandburg E.S.	Wheaton	4
11/1/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T, ST	Fairmount E.S.	Downers Grove	2
11/1/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Henry Puffer E.S.	Downers Grove	2
11/4/2019	WSM Loan	T	Jefferson E.S.	Elmhurst	1
11/11/2019	WSM Loan	T,ST	Field E.S.	Elmhurst	1
11/19/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Highland E.S.	Downers Grove	5
11/20/2019	Planning Water Field Trip for Students	T	Gregory M.S.	Naperville	1
12/4/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Hillcrest E.S.	Downers Grove	6

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12/16/2019	SDM, SDC	ST	Glenbard West H.S.	Glen Ellyn	
12/16/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Gregory M.S.	Naperville	5
12/17/2019	WSM Loan	T,ST	Downers Grove South H.S.	Downers Grove	1
12/17/2019	RB, NP, PP, GB, GR, SWM, BMP, Q&Q, COC, COR, LP, SDM	T,ST	Gregory M.S.	Naperville	10
12/18/2019	SDM, LP, Pick - Up 5, Upcoming Events	T	Downers Grove South H.S.	Downers Grove	1
12/19/2019	WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COC, COR, Phos., Fert., Nutrient Load	T,ST	Leman E.S.	West Chicago	1
1/14/2020	WSM, Rx, Q&Q, SWM, BMP, Flooding in DuPage, Nutrient Load, SDM, LP, Upcoming Events	T,ST	Millstreet E.S.	Naperville	3
1/16/2020	WSM, Q&Q, Flooding in DuPage, SWM, Nutrient Load	T,ST	Still M.S	Naperville	7
1/17/2020	Q&Q, NP, RB, PP, BMP, BS, GB, GR, Rx, LP, SDM	T,ST	Still M.S	Naperville	4
1/24/2020	WQF, RB, NP, PP, SWM, BMP, LP, SDM, Q&Q, Flooding in DuPage	T,ST	Western Trails	Carol Stream	30
1/25/2020	WSM, Rx, Q&Q, SWM, BMP, Flooding in DuPage, Nutrient Load, SDM, LP, Upcoming Events, Newsletters	ST. , COM.	Maercker SD 60	Willowbrook	118
2/20/2020	WSM - NP, PP, GR, SWM, BMP, Q&Q, Phos., Nutrient Load, LP, WQF	T, ST	Westmont Jr. High	Westmont	10
2/21/2020	BMP, SWM, Q&Q, RB, NP, PP, GR, BS, Rx, COC, COO, LP	T, ST	Westmont Jr. High	Westmont	6
2/26/2020	WQF Staff Training - Q&Q, SDM, WSM, Pesticides, Herbicides, LP, Nutrient Load, Beet - 55, NP, Flooding In DuPage, Rx, Upcoming Events, Newsletters	T.	Westmont Jr. High	Westmont	57
2/28/2020	Water Dynamics Workshop - RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COC, COO, Nutrient Load, WSM, SDC, SDM, LP, GC	T.	SCARCE	DuPage	15

RB-Rain Barrel, NP-Native Plants, PP-Permeable Pavers, GB- Green Building, SWM- Stormwater Management, BMP- Best Management Practices, HHW-Household Hazardous Waste, Q&Q- Quantity and Quality, GR- Green Roof, BS- Bio Swale, RX- Medicine Disposal, COC - Curbside Compost, COO- Backyard Compost, COW- Indoor Compost, COR - Cooking Oil Recycling, Phos- Phosphates, WS- Watershed Model, GWFM-Groundwater Flow Model, CW- Car Washing, SDC- Sustainable Design Challenge, GC- Green Cleaning, LP- Litter Prevention, AB- Anti Bacterial Soap, ER- Electronic Recycling, WL- Wetland, WQF - Water Quality Flag

Type of Group: COM - Community Group, ST - Student, T – Teachers

**Section B:****Public Participation/ Involvement****B2. Educational Volunteer****Goal:**

*DCSM will sponsor a variety of volunteer opportunities, including: the Adopt-a-Stream program, the DuPage River Sweep, and the storm drain stenciling program.*

**Milestone (Year 2):**

*Participate at or sponsor 3 events targeted at school aged children per year.*

**Status:**

DuPage County sponsors the following programs through the Conservation Foundation on behalf of all co-permittee communities:

Storm Drain Stenciling/ Medallions

The previous stenciling program was converted to a medallion program in 2019 due to concerns regarding the stencil paint being washed off by rainwater over time. During the reporting year 5 groups participated in the program:

- Number of volunteers: 68
- Groups: Teens with Character, Eagle Scouts, DuPage County Sherriff's Work Alternative Program (SWAP), Greybar Distribution Co., General Motors
- Drains stenciled: 108
- Medallions applied: 396
- Door hangers posted: 168
- Communities: Lisle, Lombard, Naperville, Westmont

Additionally, the following communities continue to utilize permanent drain covers:

- Addison
- Wheaton
- Bloomingdale Township
- Bolingbrook
- Elmhurst
- Glen Ellyn
- Lisle
- Warrenville

- Westmont

### River Sweep

The annual DuPage County River Sweep is a county-wide self-coordinated stream cleanup and restoration event. The purpose of the River Sweep is to encourage volunteers to help “sweep our rivers clean” by picking up debris in and along the local waterways and restoring nearby land back to its natural state. In the 2019-2020 reporting year, approximately 60 miles of shoreline were cleared of trash. Since its inception in 1991, over 13,812 volunteers have removed approximately 285 tons of garbage from DuPage County waterways.

2019 River Sweep, May 18, 2019

- 500 volunteers
- Approximately 60 miles of streams
  - West Branch DuPage River (33.85 miles)
    - Bartlett - Winding Creek - 1 mile
    - Carol Stream – 12.25 miles
    - Naperville - Carloss - 1 mile
    - Naperville - McDowell Grove FP – 2 miles
    - Naperville - Pioneer Park - 1.5 mile
    - Naperville - 75th to Bailey - 1 mile
    - Warrenville - DRIFT – 1 miles
    - Warrenville - Blackwell bridge to Butterfield - 3.6 mile
    - Warrenville-Kleinwachter – 1 mile
    - Warrenville - West DuPage Woods FP - 1 mile
    - Warrenville - Warrenville Grove - 1 mile
    - West Chicago - Kress/Preston Creeks - 1 mile
    - West Chicago - Preston Park Detention 1 mile
    - Wheaton - Cosley Zoo staff - 1 miles
    - Wheaton - Sperl - 3 miles
    - Winfield - Bernard - 1.5 mile
  - East Branch DuPage River (26.11 miles)
    - Addison – Salt Creek – 10 mile
    - Bolingbrook, Hidden Lake – 2.5 miles
    - Downers Grove - Prentiss Creek - .56 miles
    - Downers Grove - St. Joseph Creek - 1 mile
    - Glen Ellyn – Churchill Woods – 1 miles
    - Itasca - Springbrook Creek – 1 miles
    - Lisle, Community Park – .75 miles
    - Lisle, Hitchcock Woods - 1 mile

Lisle, Morton Arboretum/Hidden Lake - 1 mile  
 Lombard - 4.3 miles  
 Oak Brook – 2 miles  
 Wood Dale - 1 mile

- Approximately 6 tons of litter removed
- Restoration Work conducted at Smith Woods in Westmont through removal of invasive species (buckthorn, honeysuckle, and garlic mustard)

Conservation @Home / Conservation @Work

The Conservation @ Home and Conservation @ Work programs promote the use of native landscaping, rain gardens and rain barrels to homeowners, businesses and developers in DuPage County. Conservation @ Home/Work provides a way to educate the citizens of DuPage County about stormwater and provides them with the resources they can use to improve water quality on their properties. The Conservation Foundation staff conducts evaluations and certifications of residential properties, school campuses and business properties throughout the county as well as provides information and resources for planting and maintaining certified properties and promotes the program through presentations and partnerships.

Through these programs twenty (20) homes were certified this year. Another thirty-seven (37) homes are in-progress sites for certification in the Conservation @ Home program. This year Angelic Creations was certified through the Conservation@Work program.

Rain Barrels

Six-hundred-ninety -one (691) rain barrels have been distributed throughout DuPage county since the start of the rain barrel program. The rain barrel programs and promotions occurred in the following DuPage County communities during the reporting year: Aurora (DuPage Co.), Bloomingdale, Downers Grove, Elmhurst, Naperville, West Chicago, Westmont and Wheaton. The Conservation Foundation maintains a countywide link for DuPage County residents to purchase rain barrels. Residents have the option to pick-up their rain barrel or they can have it delivered. Videos instructing homeowners on how to install a rain barrel are posted on the DuPage County YouTube page and the Conservation Foundation website. DCSM also sponsors rain barrel raffles at various events and watershed stakeholder meetings throughout the year.

Additional Programs by Co-Permitees

<b>MS4</b>	<b>Volunteer Opportunity/ Program</b>
Addison Township	Boy Scouts volunteers assist at Electronic Recycling events
Addison	The Village of Addison, in conjunction with Boy Scout Troop 410, on August 5, 2019 conducted a River Sweep on Westwood Creek

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Bensenville	Public Works is a designated site for collecting cooking oil and holiday lights recycling. The Village also organizes an annual paper shredding event. Public Works also conducts brush pickup first week of each month from April to November which is turned into free mulch for the residents. In conjunction with the IEPA, Bensenville hosted a household hazardous waste collection event in Oct 2019.
Bartlett	Working with S.T.E.M. and U-46 to develop storm-water/drainage projects during summer internships.
Bloomingtondale	Inlet Stenciling Program; use of SCARCE medallions at inlets
Carol Stream	Public Works administered an Adopt-A-Highway program that achieved participation from six (6) volunteer groups that collected trash/debris a total of twenty-nine (29) times over 31.1 miles of roadside parkway.
	The Village conducts a "Pond & Stream Sweep" of its own stormwater facilities in conjunction with The Conservation Foundation's River Sweep. Approximately 1.6 tons of garbage was collected by 152 participants.
	WRC staff hosted a group of forty-nine (49) ecology students from Glenbard North High School on April 19, 2019. Part of the day was to be dedicated to cleaning up debris along the creek adjacent to the plant, but wet weather forced a change in plans. Students were provided a tour of the plant facilities and had an opportunity to take water samples from the creek and observe how samples are tested and monitored in the lab.
Downers Grove	We hosted a native plant sale and rain barrel sale (with The Conservation Foundation), volunteers helped plant an area of native plants at Belmont and Warren (a new pollinator garden funded in part by an OpenLands grant), we had 10 volunteers and one staff member clean up about ½ mile of Prentiss Creek for the River Sweep (we collected 18 bags of trash plus some larger items).
Elmhurst	Elmhurst's stormwater ordinance is more restrictive than the County's and requires stormwater BMPs for almost all development that increases the impervious area. In addition, to encourage homeowners to construct stormwater BMPs, Elmhurst funds a stormwater management incentive program that offers up to \$5,000 per home for stormwater BMP projects.
	Offers discounted rain barrels for sale with free delivery.
	Offers curbside recycling, yard-waste, and compost pick-up.
Glen Ellyn	Village continues to offer free branch & brush pickup, leaf & yard waste pickup by sticker and curbside composting service is available thru contracted waste hauler
	Annual parkway tree planting program
Glendale Heights	Public Works Department partners with local civic groups for storm drain stenciling activities and also coordinated volunteer activities aimed at improving stormwater quality with the College of DuPage and Northwestern Medicine during the permit year.
Hanover Park	River Sweep and Storm Drain Medallions
Itasca	The Village hosts Itasca Green Day, SWAP Work Day, River Sweep, other stream cleaning events, grease collection the Saturday after Thanksgiving, annual tree planting
Lemont	Stencil curbs by storm inlets that states (Drains to waterways)
Lisle	The Village participates in rain barrel sales through The Conservation Foundation, see attached publication for program or website: <a href="https://www.villageoflisle.org/419/Rain-Gardens-Rain-Barrels">https://www.villageoflisle.org/419/Rain-Gardens-Rain-Barrels</a>

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	The Village website provides links to the following: Build Your Own Rain Garden, Blue Thumb – Planting for Clean Water, Rain Gardens: A How-to Manual for Homeowners
	Completed DuPage River Sweep – May 18, 2019 – Community members and Lisle Teens with Character attended the River Sweep and removed trash and debris from Community Park and Hitchcock Woods County Forest Preserve.
	Lisle Teens with Character attached storm drain medallion to curb inlets in the Oak Hill neighborhood of Lisle on Saturday June 1, 2019.
	The Village participated in Adopt a Highway on Main Street in Lisle.
Lisle Township	Lisle Township Road District promotes the annual Conservation Foundation's DuPage River Sweep event in our Spring/Summer newsletter which is distributed to approximately 3,300 households in our township as well as on our website.
	Performs annual brush pickup on the first Monday of each month May through October.
	Performs annual leaf pickup for six weeks each fall.
Lombard	Paired with Glen Ellyn to host the annual River Sweep on 5/18/19.
Naperville	The Department of Public Works has the Adopt a Drain Program which was started in 2018. The address is <a href="https://www.naperville.il.us/residents/adopt-a-drain-program/">https://www.naperville.il.us/residents/adopt-a-drain-program/</a> . Through this program, residents can help Public Works in keeping streets from flooding by inspecting drains and removing leaves and debris. To date, 407 residents have signed up for the program and 593 drains have been adopted. Residents from 132 different subdivisions are now participating in the program.
Oakbrook Terrace	The City is a participant in the Salt Creek Work Group/ Conservation Foundation river sweep and staff regularly clears debris as needed.
Roselle	Clarke Environmental Volunteer Stream Cleaning: April 24, 2019 & September 10, 2019
Warrenville	Our Environmental Advisory Committee sponsors an Arbor Day in May.
	Coordinate a DuPage River Sweep with the Conservation Foundation.
	City newsletter reminds the residents that the City does Brush Pickup, participates in Arbor Day, Recycling, and river cleanups.
	See attachment
Wayne	Village volunteers perform stream sweeps of Norton Creek
	Provide brush pick up 5 times a year, part of our bush contract requires to use a portion of the brush and make it into mulch. We then provide 1200 yards of this mulch to our residents each year through a mulch lottery program.
	Yearly steps are being taken to start a yearly ditch cleaning program in the Road District.
	Provide Christmas light recycling from November to March.
West Chicago	West Chicago Environmental Commission Sponsored the annual Paper Shredding and Rain Barrel Pickup event on June 1, 2019. There were 14 rain barrels sold that were picked up during the event. West Chicago Sponsors an Adopt A Highway Program.
	SCARCE/DuPage County Storm Drain Medallion Program, West Chicago Environmental Commission and the First United Methodist Church participated in this program, placing No Dumping Drains to River medallions on select storm sewer inlet backs in West Chicago.
Westmont	Storm Drain Stenciling Program held on June 1st, 2019 (9 volunteers)
	River Sweep held on May 18th, 2018 (11 volunteers)
	Community Rain Barrel Program thru The Conservation Foundation (98 barrels sold)

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	Tree Seedling Giveaway (200 seedlings)
	Parkway Tree Program (398 trees planted)
	Continue to assist with the construction of Richmond Education Gardens and Apiary Project
Wheaton	Electronics Recycling, Prairie Path Cleanup
Winfield	The Village encourages participation in the April 27 Earth Day Trail Clean up and the May 18 DuPage River Sweep. These events are publicized in the Village newsletter and promoted at various Village Board meetings.
Winfield Township	Annual recycling event
Wood Dale	The City contracts with a waste hauler to collect brush and leaves from residents.
Woodridge	In April 2019 the Village coordinated a community clean up day to have volunteers assist Village staff in picking up litter and debris from along roadways/bikepaths. This was in addition to efforts by Village staff and use of the DuPage County Sheriff's Work Alternative Program (SWAP).
	In May 2019 the Woodridge Rotary sponsored a recycling extravaganza in Woodridge which the Village advertised and Village staff volunteered at.
	In May 2019 the Village passed a proclamation recognizing River Sweep 2019 and advertised the event to encourage residents to participate in the event, and advertised local opportunities to volunteer.
	The Village hosted a free drop off for residents to recycle Christmas tree lights from approximately November 2019 – February 2020.
	The Village, through its waste hauler, offered a Christmas Tree recycling program in January 2020.
York Township	We offer a free year round Electronics Recycling Program to York Township Residents

**B3. Stakeholder Meeting****Goal:**

*DCSM will host at least two regular water quality stakeholder meetings per year in each of the partnership area's main watersheds in order to address matters pertaining to pollutant reduction on a watershed level. In addition, input on water quality impairments will be requested from stakeholders for incorporation into watershed planning efforts, which may cause the formation of separate stakeholder groups any given year.*

**Milestone (Year 2):**

*Participate in or organize 3 watershed stakeholder meetings per year.*

**Status:**

DuPage County staff held 4 watershed stakeholder meetings throughout the county during the reporting year. These events are open to all members of the public.

Event	Date	Location	# of Attendees	NPDES Category	Involvement
East Branch DuPage River Watershed Workshop	5/22/2019	Glen Ellyn Police Station	40	Education & Outreach	Host/ Sponsor
West Branch DuPage River Watershed Workshop	5/29/2019	Ball Horticultural Company, West Chicago	40	Education & Outreach	Host/ Sponsor
Salt Creek Watershed Workshop	5/31/2019	Elmhurst Police Station	31	Education & Outreach	Host/ Sponsor
East Branch Watershed Workshop	12/5/2019	Morton Arboretum, Lisle	103	Education & Outreach	Host/Presenter

Additionally, DCSM sponsored two additional events:

On January 30, 2020, the annual Environmental Summit was held at Northern Illinois University's Naperville campus. The half-day conference titled "Is Climate Change Impacting DuPage County?" was attended by over 400 people. Two DuPage County staff presented at this event.

On February 27, 2020, the Beyond the Basics Stormwater Management Conference was held at Abbington Distinctive Banquets in Glen Ellyn. The theme of the half-day conference was "Designing for an Uncertain Future." In an age of climate change, urbanization and increasingly frequent, intense storms and prolonged

devastating droughts, how can we plan and design Best Management Practices (BMP) for the future. There were over 100 people in attendance at the event.

#### Additional Meetings/ Workshops by Co-Permitees

<b>MS4</b>	<b>Workshop/ Meeting</b>
Addison Township	Presentation of the Textile Recycling and Rain Barrel programs at Board meetings
Burr Ridge	Village's Storm Water Committee consists of citizen volunteers and elected Village officials. The Committee meets quarterly in an open public forum to review and discuss storm water issues and program development pertaining to Village storm water quality programs and practices.
Carol Stream	Public Works presented the annual update to its Snow & Ice Control Plan to the Carol Stream Village Board on November 4, 2019.
Downers Grove	We host resident meetings for all our stormwater capital projects.
Elmhurst	The City of Elmhurst has a Public Works and Buildings Committee which discusses stormwater issues at every meeting. At the meeting Public Comment is on the agenda every meeting.
Lisle	The Village stormwater administrator consultant regularly participates in the Municipal Engineers Discussion Group to assist in developing water quality information to fit the needs of the Stormwater Management Program.
	Village staff will also participate in the East Brach Watershed Stake Holder Meeting May 21, 2020 (rescheduled from its original March date due to COVID19)
Lisle Township	Lisle Township Road District co-hosts two free Car Care Clinics for seniors during the months of May and October each year. The events assist in car maintenance and performs vehicle and safety inspections of fluids, tires, belts, hoses just to name a few. Stormwater materials are on display and available to take home.
Lombard	Hosted the bimonthly meetings of the DuPage River Salt Creek Workgroup.
Oak Brook	York/Harger Intersection Village Project and the Harger Multi-Use Path Village Project
Winfield	Public Works Committee (monthly) - The purpose of the Public Works Committee is to communicate with the Village Board regarding environmental and community health issues, and beautification of Village owned property and the community in general. They also review reports on stormwater and flooding issues in the Village, researches solutions and alternative funding, and facilitates recommendations to the Village President and Board of Trustees.
Winfield Township	Open House and Annual Town Meeting
Wood Dale	The City's Stormwater Management Commission is scheduled to meet on a monthly basis.

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Woodridge	In April 2019 the Village hosted a Town Meeting in which every Department presented information on their operations. Public Works provided information on maintenance of trees, water saving measures, leak detection in their homes, proper disposal and recycling requirements for various types of items, and stormwater management and green infrastructure options.
	Village staff overviewed stormwater related plans and programs at the public budget workshop in October 2019, including looking for feedback and questions on stormwater projects

**B4. Public Hearing****Goal:**

*DCSM will provide opportunity for public comment at an annual public meeting in order to reach all interested residents on the adequacy of its MS4 program, watershed plans, and projects. DCSM will publicize public meeting in conjunction with its education and outreach initiatives as well as posted in the local news publications.*

**Milestone (Year 2):**

*Hold one meeting per year for the public to provide input.*

**Status:**

The DuPage County Stormwater Management Planning Committee regularly holds monthly meetings on the first Tuesday of each month at 7:30 am. At the beginning of each meeting, there is a public comment period which allows members of the public to provide input on the County's Stormwater program. The February 4, 2020 meeting was specifically advertised to the public as an opportunity to provide input on the adequacy of the stormwater program.

***NOTICE OF PUBLIC MEETING***

*The DuPage County Stormwater Management Planning Committee will hold a public meeting as part of their regularly scheduled meeting on Tuesday, February 4, 2020 at 7:30 a.m. in the County Board Room at 421 North County Farm Road, Wheaton, Illinois to allow the public to provide input as to the adequacy of the DuPage County Water Quality Program. This meeting is being held pursuant to Illinois Environmental Protection Agency Permit No. ILR40 Part IV. Section B. 2. c. Comments will be limited to 3 minutes.*

*IEPA Permit No. ILR40 includes the following components:*

- *Public Education and Outreach on Water Quality Topics*
- *Public Involvement and Participation*
- *Illicit Discharge Detection and Elimination*
- *Construction Site Erosion and Sediment Controls*
- *Post-Construction Best Management Practices for Water Quality*
- *Pollution Prevention and Good Housekeeping for Municipal Operations*
- *Water Quality Monitoring Program*

*The full DuPage County Stormwater Management Program Plan can be found at:*

[http://www.dupageco.org/EDP/Stormwater\\_Management/Water\\_Quality/54206/](http://www.dupageco.org/EDP/Stormwater_Management/Water_Quality/54206/)

The Public Meeting on the Water Quality Program is shown in the official minutes below and can also be found at:

[https://www.dupageco.org/County\\_Board\\_Committees/Stormwater\\_Committee/17810/](https://www.dupageco.org/County_Board_Committees/Stormwater_Committee/17810/)



**DU PAGE COUNTY  
STORMWATER MANAGEMENT COMMITTEE  
FINAL SUMMARY**

**February 4, 2020**

**Planning Committee**

**7:30 AM**

**COUNTY BOARD ROOM  
421 N. COUNTY FARM ROAD  
WHEATON, IL 60187**

**1. CALL TO ORDER**

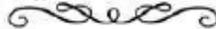
7:30 AM meeting was called to order by Chair James Zay at 7:30 AM.

**2. ROLL CALL**

PRESENT: Anderson, Brummel, Covert, Nero, Noonan, Hart (Remote), Ozog, Pojack, Tornatore, Yusuf, Zay  
ABSENT: Pulice

**3. PRESENTATION**

A. Presentation on Water Quality Program



B. Public Comments on Water Quality Program

Beverly Jaszczuroski addressed the committee about the Water Quality Program. She is grateful the County cares about Stormwater issues and thanked the committee.



**4. CHAIRMAN'S REMARKS - CHAIR ZAY**

**5. PUBLIC COMMENT - PUBLIC COMMENT IS LIMITED TO THREE MINUTES PER PERSON**

Resident Bonnie Gahrts from 1826 E. Willow Ave. in Wheaton addressed the committee about storm sewer issues in her neighborhood.

Beverly Jaszczuroski from SCARCE addressed the Committee regarding the upcoming 14th Annual Sustainable Design Challenge to be held on April 21, 2020. The storm drain program is processing well and a teacher's institute day is coming up on February 28th.

**6. APPROVAL OF MINUTES**

A. Stormwater Management Committee - Planning Committee - Jan 7, 2020 7:30 AM

The following Stormwater Management Planning Committee meetings were held during the reporting year:

- March 5, 2019
- April 2, 2019

- May 7, 2019
- June 4, 2019
- July 9, 2019
- August 6, 2019
- September 3, 2019
- October 1, 2019
- November 5, 2019
- December 3, 2019
- January 7, 2020
- February 4, 2020 \*Advertised for Public Input on Program

Official minutes and agendas for all meetings can be found at:

[https://www.dupageco.org/County Board Committees/Stormwater Committee/17810/](https://www.dupageco.org/County_Board_Committees/Stormwater_Committee/17810/)

**B6. Program Involvement****Goal:**

*Develop and distribute surveys via an email list, webpage, and on social media to measure citizen views, behaviors, and concerns pertaining to a variety of topics, including water quality, property management, and residential pollutant control.*

**Milestone (Year 2):**

*Develop and disperse 1 survey per year.*

**Status:**

Surveys were distributed to attendees of the following events:

- Green Infrastructure Seminar Survey – December 2019
- Pollution Prevention Seminar Survey – April 2019

DuPage County staff maintained the “Citizen Reporter App” which provides citizens the opportunity to participate in the water quality program by identifying areas for water quality improvements. By using the app, citizens can report water quality issues such as erosion, stream blockages, algae, dumping, sediment, garbage, and other water quality issues. The Citizen Reporter App can be accessed at:

<https://gis.dupageco.org/CitizenReporter/>

From March 2019 through February 2020 a total of 18 reports were received through the Citizen Reporter App. Reports included observations on stream erosion, stream blockage reports, illegal dumping, and drainage/flooding concerns.

**Section C:****Illicit Discharge Detection and Elimination****C1. Storm Sewer Map Preparation****Goal:**

*Partner agencies provide a current storm sewer atlas to the DCSM. DCSM will collect, compile, and field verify storm sewer maps from partner agency data to create a comprehensive storm sewer atlas of the partnership area (the municipal limits of all participating MS4s). The partner agencies will provide the DCSM with annual updates of the storm sewer atlas.*

**Milestone (Year 2):**

*Complete the storm sewer atlas for 60% of DuPage County.*

**Status:**

DuPage County Stormwater staff continues to work with townships, municipalities, and other county departments to update the storm sewer atlas with current storm sewer locations. The following updates were completed within the reporting year:

<b>Agency</b>	<b>Date</b>
Carol Stream - updated data	4/25/19
DuDOT Des Plaines - updated data	4/25/19
Naperville - updated data	7/23/19
Lemont- Data was converted from CAD to GIS and updated	2019

During the 2019-2020 reporting year, DuPage County Stormwater continued to combine all storm sewer data for the county into one comprehensive GIS database. Combining each agency's data into one comprehensive layer will simplify tracing and spill response within DuPage County. Staff began creating a standard attribute set for the County in 2017 and continued to work with DuPage County Department of Transportation throughout 2019 on combining all data into a comprehensive layer.

## **C2. Regulatory Control Program**

### **Goal:**

*DCSM will revise the IDDE ordinance as needed and provide language to partner agencies.*

### **Milestone (Year 2):**

*Review and amend the Ordinances, as needed to reflect new information and regulations.*

### **Status:**

DuPage County Stormwater staff reviewed the Ordinances and found no need to amend with new information or regulations.

### **C3. Detection/Elimination Prioritization Plan**

**Goal:**

*Compile information pertaining to the ten-step prioritization plan identified in the DuPage County IDDE Program Technical Guidance.*

**Milestone (Year 2):**

*Complete West Branch Outfall Prioritization*

**Status:**

After completing steps 1 and 2 in the DuPage County IDDE Program Technical Guidance outfall prioritization plan in 2016, we were scheduled to complete steps 3 and 4 in 2017. County staff adjusted the prioritization plan goal to complete outfall prioritization for the watershed that is scheduled for monitoring that year. Because West Branch DuPage River watershed was scheduled for outfall monitoring in 2019, outfall prioritization was completed for the West Branch using the following steps:

Step 3 – Determine which of the Reach Illicit Discharge Risk Factors and Subbasin Illicit Discharge Risk Factors are going to be used for prioritization

Step 4 – Gather data required to compute the Reach Illicit Discharge Risk Factors and Subbasin Illicit Discharge Risk Factors

Step 5 – Compute Reach Illicit Discharge Risk Factors

Step 6 – Compute Subbasin Illicit Discharge Risk Factors

Step 7 – Compute Subbasin Illicit Discharge Risk Scores

Step 8 – Create Prioritization Scoring Map and Table

Step 9 – Perform Critical Review

Step 10 – Review Prioritization

Steps 3-5: The reach illicit discharge risk factor we selected was the number of outfalls per stream mile ( $\geq 30$ ). We considered outfalls located within 20ft of the WB\_Stream\_Miles GIS layer to be within the stream. Number of outfalls per stream mile ( $\geq 30$ ) came to 87 priority outfalls.

The subbasin illicit discharge factors selected for inclusion were land use and high nutrients. 56 subbasins contain at least 50% industrially zoned land use, which resulted in 62 priority outfalls. We included outfalls located in areas of high nutrients, dissolved materials, or heavy metals not associated with POTWs as listed in the “2012 Biological and Water Quality Study of the West Branch DuPage River Watershed” by Midwest Biodiversity Institute Center for Applied Bioassessment & Biocriteria. Those outfalls in the high nutrient areas and within 20ft of the stream were included. However, we excluded sample locations with Phosphorous exceedances only, as Phosphorous is high throughout the watershed. This accounted for 32 new priority outfalls.

Historic discharge complaint locations were included as illicit discharge risks. The DuPage County Department of Health provided discharge and septic complaints from the last 5 years. Within the West Branch Watershed, we created 500 ft buffers surrounding the complaint locations and prioritized any outfalls within the buffer, which accounted for an additional 9 priority outfalls.

The county's Stormwater Management Department monitors and documents the quality of the water leaving the county campus. As such, all campus outfalls were designated as priority. This added 20 priority outfalls.

Unresolved Areas of Concern within the West Branch were included as priorities. These are outfalls which previously received a discharge complaint, but the source was not identified, or the issue not resolved. This provided one additional priority outfall.

A motor oil discharge occurred in a pond at LaSalle Ave and Bond Street in Naperville in early 2016. We selected all the outfalls located in the pond as priority outfalls to continue more intensive monitoring. This provided an additional 8 priority outfalls.

Steps 6-8 were modified to score anything that met the criteria of an illicit discharge risk factor as a priority outfall.

This prioritization process resulted in the classification of 219 priority outfalls out of a total of 1,820 MS4 outfalls in the West Branch DuPage River Watershed.

**C4. Illicit Discharge Tracing Procedures****Goal:**

*Follow guidelines in the IDDE Program Technical Guidance manual to trace illicit discharges. Update the manual to reflect new techniques and practices.*

**Milestone (Year 2):**

*Continue tracing illicit discharges in accordance with the DuPage County IDDE Technical Guidance Manual. Review and update the manual as needed.*

**Status:**

DuPage County Stormwater Management staff monitored all known outfalls within the West Branch DuPage River Watershed. Staff also responded to complaints regarding illicit discharges. Any suspected illicit discharges were traced to their source when applicable and removal of the discharge was completed through use of the IDDE Technical Guidance Manual protocols.

<b>Date</b>	<b>Municipality</b>	<b>Issue</b>	<b>Outcome</b>
3/11/2019	Addison	Septic discharge overland into street during large rain events	Homeowner contacted by Health Department and continued monthly monitoring by DPC
4/1/2019	Addison	Septic tank being pumped into storm drain	Homeowner contacted by Addison and Health Department. Monthly monitoring by DPC
4/4/2019	Elmhurst	Report of discharge into Salt Creek	Elmhurst staff were unable to identify source. They continue to monitor the site.
4/8/2019	Carol Stream	Diesel fuel in retention pond	DPC took samples for lab test, traced source, and verified cleanup
4/15/2019	Itasca	Car accident released fuel	DPC staff verified no impacts to waterway
5/2/2019	Bensenville	Oil sheen in ditch	DPC staff met IEPA onsite. Spill determined to be leaking Bbox. ComEd coordinated cleanup
5/24/2019	Winfield	Orange substance in channel, covering rocks	Channel is connected to nearby school's sump system. The orange is a natural substance – rust/ iron bacteria
5/30/2019	Addison	Sewage overflow	Connected to Addison sewer system. Storm sewer Vactored.
6/6/2019	Downers Grove	Coolant/oil spill into catch basin- went to DG sanitary	Spill was contained in catch basin and pumped out by waste handler. DPC verified cleanup

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6/10/2019	Unincorporated Lombard, York Township	Citizen complaint of sludge in yard, killing plants	Determined to be a groundwater issue
6/11/2019	Bloomingtondale	Leaking dumpster near storm drain	Dumpster removed from site and spill contained. DPC staff verified cleanup
6/11/2019	West Chicago	Cooking grease in stream next to restaurant	Traced to restaurant. City of West Chicago cleanout catch basin and enforced IDDE Ordinance.
6/26/2019	Carol Stream	Fuel spill at trucking facility. Haz Chem coordinated cleanup	DPC staff verified cleanup
7/11/2019	Carol Stream	Car wash discharge of cleaning compound via storm sewer	Inserts for catch basins installed
7/15/2019	Downers Grove	Fecal coliform in St. Joseph Creek	Contacted DuPage Health Department who did not detect any septic issues in the area. Downers Grove reported no issues with their sanitary lines
7/17/2019	Lisle	Drainage concerns	Tested for chlorine to rule out water main break. Determined to be a groundwater issue
8/26/2019	Oakbrook Terrace	Saddle tank puncture caused 100 gallons of diesel to spill	Contractor handled cleanup and remediation. County inspected with PID meter the following day and did not detect anything
8/27/2019	Bensenville	Sheen reported in Willow Creek. Chicago Dept of Aviation reported to IEPA	DPC staff verified no release downstream
9/2/2019	Woodridge	Complaint of resident dumping driveway sealer into the stormwater inlet	Nothing observed in stormwater. Woodridge staff made contact with the accused resident
9/4/2019	Wheaton	Fuel sheen on Winfield Creek	DPC deployed booms, contacted first responders for assistance, traced source, contracted with HazChem for cleanup
10/9/2019	Burr Ridge	White paint in manhole/catch basin	Burr Ridge contacted the HOA to enforce
10/9/2019	Glendale Heights	Dumpster fire resulted in release of Akafe Red 130 into the storm sewer	Cleaned up by contractor- no sign of dye downstream
10/9/2019	Burr Ridge	Complaint from resident regarding oily sheen	Determined by county to be organic matter breakdown and not a concern
10/10/2019	Burr Ridge	Discharge entering creek from pool construction project	Burr Ridge code enforcement addressed the issue
10/11/2019	Itasca	Semi truck in Salt Creek, with ruptured diesel fuel tank (90 gallons)	DPC staff deployed booms downstream, determined downstream

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			extent of spill, coordinated with IEPA, verified cleanup
11/5/2019	Downers Grove	Gasoline spill onto roadway. Oil dry applied	Contractor cleaned up oil dry and applied an LEL suppressant. DPC staff verified cleanup
11/7/2019	Wheaton	Improper salt storage	Reported to the City of Wheaton. Worked with the school on proper salt storage
11/16/2019	Bloomingtondale	30-50 gallons of diesel spilled in overfill of gas tank to vehicle	Absorbent boom and oil dry placed at spill, contractor cleaned up site. DPC staff verified cleanup
11/21/2019	Oak Brook	Vehicle accident causing saddle tank spill	Contractor completed cleanup and remediation- DPC staff verified no impacts to waterways
11/21/2019	Elmhurst	Soap in manhole	Continued monitoring each month by DPC
12/12/2019	Naperville	Diesel and hydraulic oil spill of 25-100 gallons	Oil dry and boom applied, cleanup by contractor DPC staff verified cleanup
12/26/2019	Woodridge	Spill of approximately 20 gallons of motor oil	Tow company did initial containment; Contractor cleaned up site. DPC staff verified cleanup
12/26/2019	Woodridge	Food truck owner washing dishes in road	Driver advised by Woodridge staff that soap can't go into storm drain- truck was moved
12/30/2019	Unincorporated Lisle	Heavy run off in creek. Reports of hot murky water a couple times a year	Not sure of source, continue to monitor monthly by DPC
12/31/2019	Wood Dale	Beet Heet Severe liquid deicer rupture in discharge line resulting in spill	Catch basins with deicer were cleaned with a Vactor. No release downstream
1/14/2020	Carol Stream	Oil sheen in pond	Deployed booms to contain and absorb. Could not locate upstream source indicating one time event
1/23/2020	Darien	Horse farm water quality concerns	Sampled downstream for fecal coliform. Small amount detected
1/24/2020	Wheaton	Oil sheen in DuPage County parking lot	Deployed oil booms. Cleanup conducted with absorbent pads and oil dry. Verified no discharge downstream
2/3/2020	Lombard	Automobile accident- car in Sugar Creek	Report forwarded to IEPA
2/12/2020	Downers Grove	Tractor trailer accident on I355	Inspected downstream to verify no release into waterways

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2/14/2020	Lombard	Salt pile runoff concerns	Exposed salt pile at private landscaping company facility. Educated on salt pile BMPs. Salt pile was tarped. Follow up inspection concluded landscaper is no longer in business. Salt pile has been removed.
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**C5. Illicit Source Removal Procedures****Goal:**

*Distribute educational materials pertaining to illicit discharges to DuPage County residents and businesses. DuPage County maintains a partnership area-wide Illicit Discharge Detections and Elimination Hotline as well as an online Citizen Reporter Application, where the public is able to report suspect discharges in addition to other water quality concerns, such as erosion or stream blockages. Publications and notices advertising these resources are created, updated, and distributed.*

**Milestone (Year 2):**

*Advertise or promote the IDDE Hotline or Citizen Reporter App 5 times through publications, notices, and events.*

**Status:**

County staff has created 22 brochures and flyers for distribution as discussed earlier in the education and outreach section of this report. These publications are distributed at each event the County attends as an exhibitor (also discussed in education and outreach section). These documents are available on our website at:

[https://www.dupageco.org/EDP/Stormwater\\_Management/1163/](https://www.dupageco.org/EDP/Stormwater_Management/1163/)

## C7. Visual Dry Weather Screening

### Goal:

*Perform the visual screening of MS4 outfalls discharging to Waters of the State during dry-weather conditions.*

### Milestone (Year2):

*Inspect, during dry weather, all known outfalls within the West Branch DuPage River watershed that fall within the partnership area. Additionally, priority outfalls will be inspected.*

### Status:

The West Branch of the DuPage River was the target watershed for the 2019/20 monitoring season. 1,820 outfalls were visually inspected for illicit discharges within the West Branch. While inspecting the outfall sites, we determined several of the pipes were not actually outfalls, but were daylighting of streams, sump pump pipes, or some other non-MS4 use. Therefore, of the 1,820 sites inspected, only 1,204 were determined to be actual outfalls. Additionally, all 151 East Branch Priority Outfalls were monitored. DuPage County staff continued using the ESRI Arc Collector app for outfall inspections. This allows us to track outfall inspections digitally, eliminating the need for paperwork. Outfall inspection and testing information is entered directly into the database, which is also linked to the outfall map. The storm sewer inventory has also been converted into the Arc Collector app. This allows staff to view the storm sewer atlas on a tablet or smartphone, which increases efficiency in illicit discharge tracing.

Starting in 2019, kayaks increased outfall monitoring efficiency along the main stem of the West Branch DuPage River. Observing outfalls from the water proved much faster and safer than driving and hiking to the riverbank. In addition, observers were able to record river conditions that are not visible when inspecting outfalls from the shoreline.

### Additional IDDE inspections conducted by Co-Permittees

MS4	Details
Addison	The Village of Addison had identified 121 outfalls, and each was visually inspected, and the conditions recorded during the reporting period. All outfalls were normal, and records of the inspections are available for review in our office.
Bensenville	Bensenville staff responded to three illicit discharge events in 2019.
Bloomington	Annual Inspection of Stormwater Detention/Retention basins and outfalls
Burr Ridge	White paint was reported and verified in a catch basin of 2 Sylvan Glen Court. The homeowner and contractor were warned, the spill was removed, and the incident was closed with no further action necessary.
Carol Stream	Public Works conducted 15 outfall inspections.

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	Public Works, Engineering & DuPage County Stormwater investigated 6 potential IDDE's:
	Request ID 34438 / 2019-04-03 / 485 E Lies Rd: Engineering was contacted by FIC America regarding an oil sheen on the retention pond at the northwest corner of Lies Road and Schmale Road. With assistance from DuPage County staff, it was determined that the likely source was from the prime coat added to Lies Road by the Village's contractor earlier that morning. The contractor was notified of the issue and placed additional booms at another outfall that was affected. No further enforcement action was taken.
	Request ID 34437 / 2019-05-16 / 485 E Lies Rd: Engineering was notified by FIC America of an oil sheen on the Carol Point Northeast retention. The investigation concluded that the likely source was the asphalt prime coat applied by the Village's contractor for the Lies Road Rehabilitation Project had washed off with the rainfall. Public Works deployed several booms to help contain the oil. The contractor was contacted and directed to deploy additional booms at another outfall.
	Request ID 27130 / 2019-05-16 / 485 Lies Rd: DuPage County Stormwater notified staff of a minor oil sheen in the storm sewers at FIC America. The property owner was sent a courtesy notification and they responded that they would clean-up the area and continue monitoring as part of their SWPPP.
	Request ID 27007 / 2019-05-21 / 450 Kehoe Blvd: Public Works staff noticed a milky white substance in the stream adjacent to Kehoe Blvd and traced it to expired milk that had been disposed in the dumpster. An enforcement letter was sent to the responsible firm and a response was received confirming the required actions were taken.
	Request ID 27245 / 2019-07-22 / 245 E Fullerton Ave: Police requested that Public Works confirm that no IDDE was caused by an accident on private property. Public Works confirmed that the clean-up efforts by the Carol Stream Fire Department prevented any oil from entering the MS4.
	Request ID 27575 / 2019-07-10 / 1251 N Gary Ave: DuPage County Stormwater notified Engineering of a soapy discharge discharging into Klein Creek. Public Works traced it to the Jet Brite car wash's pre-cleaning stations where soapy water was being emptied into the nearby storm sewer. The manager added inserts into the catch basin and informed staff to dispose of water into the sanitary sewer system.

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	Request ID 30606 / 2020-01-10 / 205 Della Ct: DuPage County Stormwater notified Engineering of an oily sheen on the water of the Klein Creek Business Park retention. An investigation of the upstream area, including the Village's stormwater facility at Tubeway Drive, revealed no obvious source. A discussion with the FedEx facility indicated their SWPPP inspections had not revealed anything either. An adsorbent boom was deployed by DuPage County Stormwater.
	Request ID 34481 / 2019-12-06 / 491 E St Charles Rd: Report of possible chemical spillage by the public to IEPA and forwarded to the Village. Public Works worked with the property owner to adjust their operations, but the nature and extent of any IDDE could not be confirmed.
	Public Works was informed of soil sediment discharging from their facility onto the property to the west (245 E North Ave). An inspection was performed, which determined that the threat of illicit discharge no longer existed. The location was inspected weekly for several weeks and no evidence of additional discharge was found.
Darien	City staff periodically inspects outfall for illicit discharge
Downers Grove	We inspected two potential illicit discharge events. No enforcement action was taken. We sent a letter to all our Tier 2 companies to ensure a plan is in place for a potential spill and the responsible people are familiar with the plan.
Elmhurst	To reduce and eliminate ESOs into Salt Creek, City staff and RJN continue to do extensive investigations into the sanitary system including testing, inspecting, and monitoring. With this information, the City has greatly improved the sanitary sewer system to reduce I&I that causes the ESOs. The City also checks flap-gates at Salt Creek every couple years.
Glen Ellyn	Annual inspection of outfalls performed during dry weather, no issues found
Lemont	Outfalls are inspected on a regular basis by the village to look for anything out of the ordinary.
Lisle	The Village completes regular outfall inspections. An example report from March 11, 2019 is attached (structure and segment inspections). Outfall inspections are scheduled for three times a year.
	The Village flushes obstructions in storm sewers, cleans storm structures (inlets, catch basins and manholes) and repairs storm sewer infrastructure as needed.
	Following large weather events, the Village Public Works Staff inspections the conveyance system using GIS data and a table for recording in the field.

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Naperville	From March 2019 to March 2020, Naperville investigated one stormwater complaint at the following location: The Jiffy Lube at 944 W 75th Street. This case has been looked into, resolved and closed.
	Naperville has an intergovernmental agreement in which the city reimburses DuPage County for outfall inspections performed on the portion of the DuPage River located in Will County.
Oak Brook	See attachments
Oakbrook Terrace	City Engineer and staff periodically inspects outfalls for illicit discharge
	Inspect outfalls minimum once a week and after every storm and clean accordingly
Roselle	See attachments
Wayne	Village staff periodically inspects outfalls for illicit discharge
West Chicago	19-001 – Investigated report of large pile of salt uncovered in the yard of Grant & Powers (SE corner of Rt. 38 and Rt. 59) no action – no uncovered salt found, The motorist either drove by just after a delivery or mistook a pile of melting snow as salt..
	19-002 – Investigated leaking saddle tank of tractor trailer Route 59 and Route 64 NE corner turn lane, and Route 64 Service Road to Prairie Crossing Drive. Diesel fuel entered storm inlets adjacent to detention area. Containment and Cleanup action was required/completed by a contractor for the owner of vehicle.
	19-003 – Investigated diesel fuel spill at Speedway gas station Washington Street at Route 38. Spill (about 10 gallons) was contained, did not enter separator. Proper cleanup and disposal of materials made.
	19-004 – Investigated report Burrito Parrilla Mexicana, 100 W. Roosevelt Rd was pouring grease into storm inlet. Confirmed, cleanup was required and completed.
	19-005 – Investigated report of chemical spill (determined from JULIE ticket) at C&W Pressroom Products, 837 West Hawthorne Lane. Found an environmental team on site preparing to excavate and clean up ethanol spill that had occurred. Cleanup completed.
	19-006 – Investigated report from IEPA of effluent, bright blue in color in detention pond at the Car Wash at 330 W North Avenue. Determined sanitary overflow caused by debris in water reclaiming system. Required repairs and cleanup completed.

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Westmont	Village’s Public Works also performs annual inspections of our outfall locations. Staff will also assist with any Illicit Discharge complaints.
Wheaton	Staff inspected 15 critical outfalls where runoff is from industrial/commercial sources
Willowbrook	Village Engineer and staff periodically inspects outfalls for illicit discharge
Wood Dale	The City inspects and cleans all detention basins and outfalls on a monthly basis and contacts facility owners as appropriate.
Woodridge	Continuing from 2018 – the Village has continued to follow up, with simultaneous enforcement action, against the Natural Gas Pipeline Company, for restoration of their property for unpermitted stormwater work that occurred by an unauthorized 3rd party.
	Continuing from 2018 – the Village has continued to follow up, with simultaneous enforcement action, against the Oak Bluff Homeowners Association, for unpermitted stormwater work they completed.
	September 2019 – the Village received an anonymous complaint of someone dumping sealcoat into the storm sewer in the 2700 block of Woodridge Drive. Staff visited the site and while the driveway had been sealcoated, there was no material in, on, or around the storm sewer structure
	October 2019 – the Village issued a notice of violation and citations against School District 68 and its contractor Earthwerks for stormwater violations in violation of the SWPPP for the project along with filing of an ION on the issue with the IEPA.
	November 2019 – Village staff happened to drive by the pond located at 2501 Internationale (Davey Road side) yesterday morning and construction appeared to be occurring on the edge of the retention area and a pump was discharge water without any filtration system in place. No permit was in place. The contractor immediately stopped work and the property owner delayed the project until a stormwater permit was received.
	December 2019 – Village happened to note a food truck parked on Davey Road that was washing dishes out of the back of the truck. Contractor noted he thought it was going into a sanitary sewer – no visible material was found in the storm sewer and nominal soap suds in the roadway. Contractor ceased operations and left town.

December 2019 – a 3rd party box truck crashed off the roadway into a drainage ditch spilling an unknown substance. The area was contained and the substance was localized to the location of the crash. The Village tracked down the owner of the rented vehicle who hired an environmental remediation contractor who was dispatched to the site to vac all material and regrade and stabilize the ditchline.

**C8. Pollutant Field Testing****Goal:**

Conduct monitoring for the following chemical parameters when visual characterization of the discharge indicates an illicit nature: surfactants, ammonia, potassium, fluoride, conductivity, and pH.

**Milestone (Year 2):**

Chemically test all visually suspect dry weather discharges that are observed.

**Status:**

Among the 1,355 outfalls monitored in 2019, 11 were releasing a suspect discharge and sampled. Most of the flowing outfalls has no observable indication of illicit discharges, such as color, odor, turbidity, or floatables. The following tables shows the water quality data for the 11 outfalls that were sampled out of the 1,355 inspected outfalls. The discharges were trace to their source.

OUTFALLKEY	Inspection Date	Discharge	Color	Odor	Turbidity	Floatables	pH (SU)	Temperature (C)	Specific Conductance (uS/cm)	Salinity (ppt)	Ammonia (mg/L)	Surfactants (mg/L)	Flouride (mg/L)
8638031-0298809	10/18/2019 19:54	Trickle	Clear	None	Slight	Other	7.75	15.5	7410	4.1	0.03	0.75	
8884632-0414543	9/26/2019 16:14	Moderate	Clear	None								0.1	0.4
8388637-0366107	9/20/2019 15:03	Moderate					7.4	18.6	1071	0.5		0.1	0.3
9198631-0428941	8/19/2019 20:46											0.5	
8941713-0421070	7/24/2019 20:52	Substantial	Clear	None	None	None	7.5	19.9	3003	1.6		0.25	0.6
9173490-0346071	7/24/2019 15:43	Moderate	Clear	None	None	None	7	22.7	2205	1.1		0.25	0.5
9198631-0428941	7/10/2019 16:00	Moderate	Gray	None	Slight	None						3	
9337080-0265661	6/18/2019 20:15	Trickle	Clear	Sewage		None	6	18	1267			0.15	0.2
9182263-0431348	6/18/2019 19:10	Moderate	Yellow	None	None	None	7	19.5	3982	2.4	0.05	0.75	0.2
9364119-0258787	5/16/2019 15:12	Substantial	Clear	None		Other	6.5	12.6	1181		0.24	0.5	
9401996-0275699	5/15/2019 19:20	Trickle	Clear					12.4	1244			0.25	0.2

## **C9. Public Notification**

### **Goal:**

*In the event of a large scale release of pollutants to Waters of the State that has potential for human health impacts, DCSM will work with Emergency Management officials to notify affected community officials as well as issue a press release.*

### **Milestone (Year 2):**

*Notify affected parties in the event of a large-scale release of pollutants into Waters of the State that has potential health impacts.*

### **Status:**

No large-scale cases of pollutants into Waters of the State occurred during the monitoring year.

**Section D:****Construction Site Runoff Control****D1. Regulatory Control Program****Goal:**

*Soil erosion and sediment control regulations for DuPage County are regulated by the DuPage County Countywide Stormwater and Flood Plain Ordinance.*

**Milestone (Year 2):**

*Review and update the Ordinance as needed to ensure that sediment and erosion control provisions are up to date and reflect the current best practices.*

**Status:**

Article VII of the DuPage County Stormwater and Flood Plain Ordinance outlines sediment and erosion control requirements. No revisions were made to Article VII during the reporting year. Partner MS4s within DuPage County follow the Countywide Ordinance. Those MS4s whose boundaries fall outside the DuPage County limits may follow County or municipal Ordinances all of which must be as stringent as the ILR40 soil erosion and sediment control regulations at a minimum.

**D2. Erosion and Sediment Control BMPs****Goal:**

*The DuPage County Countywide Stormwater and Flood Plain Ordinance requires temporary and permanent soil erosion and sediment control for developments over one acre to prevent the discharge of pollutants into waterways.*

**Milestone (Year 2):**

*Require sediment and erosion control on 100% of development sites over one acre.*

**Status:**

Under the *DuPage County Countywide Stormwater and Floodplain Ordinance*, co-permittee municipalities may elect to review and inspect development sites for soil erosion and sediment control, or they may elect to defer oversight to DuPage County. During the reporting year, each co-permittee that issued development permits required soil erosion and sediment control for sites over one acre (and in many cases all size developments) to minimize the discharge of pollutants into waterways. Records are kept within each regulatory agency office.

**D4. Site Plan Review Procedures****Goal:**

*The DuPage County Countywide Stormwater and Flood Plain Ordinance requires a Stormwater Permit for developments over a certain threshold of site disturbance as well as developments in wetlands, buffers, and floodplain. All development permits are reviewed for soil erosion and sediment control. The County and Municipal permit partners have successful regulatory permitting programs under the DuPage County Countywide Stormwater and Flood Plain Ordinance and will continue to implement and update these programs as necessary.*

**Milestone (Year 2):**

*Review soil erosion and sediment control plans for 100% of development permits over one acre.*

**Status:**

All co-permittee MS4s with development permit review authority reviewed soil erosion and sediment control plans for 100% of development permits over once acre (and in many cases all size developments). Records are kept within each regulatory agency office.

**D5. Public Information Handling Procedures****Goal:**

*DuPage County Citizen Reporter App allows residents throughout the partnership area to report water quality issues, including soil erosion and sediment control complaints. The County addresses complaints within unincorporated and non-waiver areas. Complaints generated from Full Waiver or Partial Waiver Communities are forwarded to the Municipality. The County and Municipalities also receive and respond to soil erosion and sediment control concerns sent directly from the public.*

**Milestone (Year 2):**

*Investigate and track all soil erosion and sediment control reports to the County and Municipalities each year.*

**Status:**

Reports regarding soil erosion and sediment control from developments are submitted to the County as well as municipalities. Co-permittees communicate with one another to share reports and locate possible sources from development sites. All soil erosion and sediment control complaints were investigated by the County or the municipality during the reporting year. Records are kept within each regulatory agency office.

**D6. Site Inspection/ Enforcement Procedures****Goal:**

*Inspect all development sites to ensure the soil erosion and sediment control requirements are being met.*

**Milestone (Year 2):**

*County and Municipal inspectors enforce soil erosion and sediment control regulations and conduct regular inspections to ensure compliance. Inspection reports are kept within each regulator agency for tracking and reporting purposes. Continue with site inspections and code enforcement procedures. Ensure staff has proper qualifications to conduct soil erosion and sediment control inspections.*

**Status:**

Under the DuPage County Countywide Stormwater and Flood Plain Ordinance, co-permittee villages and cities may elect to review and inspect development sites for soil erosion and sediment control, or they may elect to defer oversight to DuPage County. Each co-permittee that issued development permits inspected for soil erosion and sediment control measures at sites over one acre (and in many cases all size developments) to minimize the discharge of pollutants into waterways. Records are kept within each regulatory agency office.

**Section E:****Post- Construction Runoff Control****E2. Regulatory Control Program****Goal:**

*The post construction runoff rate is restricted through the Countywide Ordinance which requires all developments increasing impervious area by 2,500 square feet or more to include Post Construction Best Management Practices.*

**Milestone (Year 2):**

*Continue to require post construction best management practices in accordance with the Countywide Ordinance. Implementing and utilizing the DuPage County BMP Manual will reduce post construction runoff pollutants and will ensure discharge from developed sites will be treated. Work through the Municipal Engineers Group to update Technical Guidance regarding Post Construction BMPs. Review and revise the Ordinance and/ or BMP Manual as needed to reflect new information and standard practices.*

**Status:**

The DuPage County Countywide Stormwater and Floodplain Ordinance (DCCSFO) was reviewed in 2016 to determine if updates were needed in order to comply with the updated ILR40 permit. As the DCCSFO is a countywide ordinance, the regulations apply to the entire county and all municipalities must be at least as stringent as the DCCSFO. Staff continues with the review of the ILR40 and the DCCSFO (last updated in May 2019) to comply with additional requirements included with the 2016 revisions to the ILR40 permit (2016). Review and discussions continued into this reporting year. Staff determined the BMP section of the DCCSFO will require an update. This revision is being discussed and evaluated with cooperation from co-permittee agencies.

A subgroup to the DuPage County Municipal Engineers group was created to provide technical assistance and guidance materials. This subgroup generated sample specifications for a dry well, permeable paver system, and rain garden which has been made available online. The samples are used as a template for the design of these practices on residential properties. The group continues developing inspection checklists for long term maintenance and monitoring.

**E3. Long Term O&M Procedures****Goal:**

*The Ordinance requires site runoff storage facilities to be put into an easement. All Post Construction BMPs with a tributary area greater than one (1) acre require a three-year maintenance and monitoring period.*

**Milestone (Year 2):**

*Require and accept easements over site runoff storage facilities and maintenance and monitoring periods for BMPs with a tributary area of one acre or more.*

**Status:**

Under the DuPage County Countywide Stormwater and Flood Plain Ordinance, co-permittee villages and cities may elect to review and inspect development sites or they may elect to defer oversight to DuPage County. Each co-permittee that issued development permits required easements over site runoff storage facilities and required three-year maintenance and monitoring periods for BMPs on sites with a tributary area of over one acre (and in many cases all size developments) to minimize the discharge of pollutants into waterways. Records are kept within each regulatory agency office.

**E4. Pre-Construction Review of BMP Designs****Goal:**

*The DuPage County Countywide Stormwater and Flood Plain Ordinance requires developments to provide post construction BMPs when impervious cover thresholds exceed 2500 square feet.*

**Milestone (Year 2):**

*The DuPage County BMP Manual provides guidance on the design and implementation of development practices that prevent stormwater quality degradation and enhance the overall quality of stormwater. The BMP Manual promotes and gives guidance on the installation of vegetated filter strips, vegetated swales, infiltration systems, permeable pavers, manufactured structures, and stormwater detention BMPs such as dry detention basins, wet detention basins, constructed wetland detention basins, and underground detention basins. Review site development plans for compliance with the BMP sections of the Ordinance and document number of reviews*

**Status:**

Under the DuPage County Countywide Stormwater and Flood Plain Ordinance, co-permittee villages and cities may elect to review and inspect development sites or they may elect to defer oversight to DuPage County. Each co-permittee that issued development permits required post construction BMPs on sites when impervious cover thresholds exceeded 2500 square feet. Records of numbers of reviews are kept within each reviewing agency.

**E5. Site Inspections During Construction****Goal:**

*The DuPage County Countywide Stormwater and Flood Plain Ordinance requires that permitting authorities utilize a qualified person with expertise in plant ecology for design review and construction observation of Post Construction BMP installations which rely on vegetation for water quality or runoff volume reduction and a soil scientist or geotechnical engineers or equivalent be utilized for infiltration BMPs. Each permitting agency reserves the right to inspect the construction site during construction to verify proper BMP installation for enforcement purposes.*

**Milestone (Year 2):**

*DuPage County Stormwater will provide annual training opportunities for all permit partners staff to ensure that all MS4 employees and contractors who manage or are directly involved in routine maintenance, repair, or replacement of public surfaces in current green infrastructure or low impact design techniques applicable to such projects to ensure that they are able to identify proper BMP installation during construction. Appropriate staff of each partner agency shall attend training on green infrastructure and low impact design.*

**Status:**

DCSM held a Green Infrastructure Seminar for MS4 Communities on December 4, 2019. This was advertised to all co-permittees. Approximately 162 staff members and contractors from MS4s were in attendance. The full agenda and registration list/ sign in sheets are included with this report as an attachment.

## **E6. Post-Construction Inspections**

### **Goal:**

*Conduct post construction inspections at sites containing BMPs with a native vegetation component for the duration of the establishment period or until performance standards are met.*

### **Milestone (Year 2):**

*Inspect 100% of sites containing native vegetation BMPs during the establishment period.*

### **Status:**

Under the DuPage County Countywide Stormwater and Flood Plain Ordinance, co-permittee villages and cities may elect to review and inspect development sites for post construction BMPs, or they may elect to defer oversight to DuPage County. Co-permittees can delegate this role to DuPage County, complete it with in house staff, or hire a consultant to complete the work. Records are kept within each regulatory agency office.

**Section F:****Pollution Prevention/ Good Housekeeping****F1. Employee Training Program****Goal:**

*Provide training to partner agencies' staff on green infrastructure and practices that will minimize the discharge of pollutants from municipal operations into the storm sewer system. Examples of training topics include automobile maintenance, hazardous material storage, landscaping and lawn care, parking lot and street cleaning, pest control, pet waste collection, road salt application and storage, roadway and bridge maintenance, spill response and prevention, and storm drain stenciling.*

**Milestone (Year 2):**

*Provide training to MS4 supervisors overseeing municipal operations, contractors, and staff performing day to day operations on green infrastructure and practices that will minimize the discharge of pollutants from municipal operations into the storm sewer system.*

**Status:**

On April 10, 2019, DCSM held a Pollution Prevention Seminar for MS4 Communities. The county hosted the seminar which was free of charge to provide an opportunity for municipalities to receive training in Pollution Prevention in accordance with the annual training requirements of the ILR40. All participants received a certificate of attendance. A list of registered attendees is attached to this report. This event was advertised and open to all co-permittees.

On October 24, 2019 DuPage County partnered with the DuPage River Salt Creek Workgroup in holding the Public Roads Deicing Workshop. This workshop was free of charge to provide an opportunity for municipalities to receive training in Pollution Prevention in municipal operations in accordance with the annual training requirements of the ILR40. Attendance included 153 registered, 12 presenters/staff, 3 committee members/guests, 11 sponsors/exhibitors amounting in a total attendance of 179 individuals. All participants received a certificate of attendance. More information on this event is included in the DRSCW Report in the attachments section.

On October 17, 2019, DuPage County partnered with the DuPage River Salt Creek Workgroup in holding the Parking Lots and Sidewalks Deicing Workshop. This workshop was free of charge to provide an opportunity for public and private facilities maintenance staff to receive training in reducing salt use and water quality impacts from chlorides. Attendance included 112 registrations, 4 presenters/staff, 5 exhibitors/staff for a total of 121 individuals. All participants received a training certificate and participants who successfully completed the test are recognized on DCSM's Water Quality – Pollution Prevention/Good Housekeeping web page. More information on this event is included in the DRSCW Report in the attachments section.

## F2. Inspection and Maintenance Program

### Goal:

*DCSM provides guidance materials on good housekeeping for municipal operations. Each partner agency has developed specific inspection and maintenance procedures for equipment and facilities.*

### Milestone (Year 2):

*Each partner agency is responsible for ensuring that equipment and facilities are inspected and maintained during day to day operations to minimize discharge of pollutants into Waters of the State. Continue good housekeeping program of inspection and maintenance of equipment and facilities related to the prevention of polluted stormwater.*

### Status:

Co-permittees oversaw their day to day activities in accordance with best practices to minimize pollutants into waterways.

### Additional information and details on specific Good Housekeeping measures provided by MS4s:

MS4	Good Housekeeping Program/ Training Service
Addison Township	Annual Housekeeping training is provided to the Highway Department staff annually
Addison	A training session was held on Nov. 19, 2019 for our Streets Dept. The session was focused on the deicing of public roads and chloride reduction in our streams.
Bartlett	In-house salt training for staff
	Member of DRSCW Chloride Committee
	Bartlett PW has recently developed for our use a Daily Vehicle Inspection Checklist/Policy which is used for vehicles and equipment and serves as an important maintenance and safety measure (see attached).
	In addition, please see the attached items for salt use, sweeping and catch basins.
Burr Ridge	Created a database of stormwater storage facilities in the Village and developed a methodology to evaluate operations and maintenance of each by type and function.
	Promoted anti-icing technology utilized in the Public Works Department snow and ice control operation
Carol Stream	The Stormwater Administrator provided an overview of the MS4 program to personnel in Administration and Community Development.
	Overview of MS4 Program to all staff in October 2019 (Public Works Director)
	Jason Pauling, Street Superintendent, completed Level 2 Salt Savings Assessment tool (SSAt) certification on April 12, 2019

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	The Public Works Department conducted its annual Snow & Ice training on November 7, 2019 for all operations. Street Supervisor Jason Pauling led the day's program, assisted by several Street Division employees sharing their expertise. Highlights of the day included discussion of new equipment and a couple of pilot efforts intended to evaluate new strategies aimed at reducing salt usage.
	Jacobs Engineering (formerly known as "CH2M") is contracted to operate the Water Reclamation Center (WRC). Jacobs conducted a training and review of their Storm Water Plan for their six (6) employees in 2019.
	Below is a list of related training provided to employees of the Public Works Department:
	1. Adopted and trained Public Works employees in Anti-idling policy
	2. APWA – Good Practices in Winter Maintenance
	3. DRSCW/LDWRC – Special Conditions for Permit Holders
	4. Green Infrastructure for MS4 Communities
	5. Pollution Prevention for MS4 Communities
	6. Special Application of Solid Mosquito Larvicide
	158 storm structures were inspected
	14 sections of storm sewer pipe were flushed covering 1,016 lineal feet of pipe
	78 catch basins were cleaned
	23 catch basins were repaired (by Public Works)
	70 storm inlets were cleaned
	During this period 1,820 curb miles were swept and approximately 239 tons of sweeping debris collected.
	Snow and ice operations:
	Number of events: 24
	Total salt used: 1,337.65 tons (nearly a 50% reduction from prior year)
	Anti-icing events: 15
	Brine used: 74,237 gallons
	The following materials used in Public Works operations were recycled:
	Motor oil: 1,025 gallons
	Scrap metal: 5,640 pounds
	Tires: 145
	Vehicle batteries: 19
	Vehicle parts: 22
	338 cubic yards of spoil were tested and hauled
	228 gallons of anti-freeze
Downers Grove Township	Highway Department went to summer stormwater seminar
Elmhurst	The City has started providing and requiring MS4 stormwater pollution prevention training for City staff and contractors.
Glen Ellyn	Routine cleaning of parking lot and storm structures, salt maintenance in winter

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	Routine street sweeping during warm weather months (18 cycles of the Village w/ 178 lane miles swept each cycle), street leaf pickup removed ~1,000 cubic yards of leaves (12 loads @80- 90 cubic yards each), and an additional 85 sweeping cycles of the downtown business district to remove trash and debris
	Annual catch basin/inlet cleaning to address 20% of the structures each year and additional locations on an as needed basis
Itasca	Conducted frequent internal training
	Village personnel conducts regular inspections of material storage areas, fleet maintenance yards, and other buildings.
	The Village has all streets swept regularly during the spring, summer, and fall.
Lisle	All maintenance and washing for the Public Works Department fleet is done in the Public Works garage, where floor drains are tributary to triple traps prior to discharging to the sanitary sewer system. Road salt and other materials are stored in covered shelters, or are covered if in open areas, to minimize exposure to rainfall.
	Lubricant and oil spills resulting from equipment maintenance are typically cleaned up using oil absorbing compounds, rather than hosing down spill areas. The Village recycles vehicle fluids with Maxsafe Antifreeze and Lisle Township.
	Grass clippings are removed from streets when turf is mowed by Public Works employees and fertilizers and pesticide are not used within 50 feet of a waterway.
Lisle Township	Replaced and purchased a new 2020 Elgin Crosswind Street Sweeper. We properly dispose of collected material.
Milton Township	The Highway Commissioner and 7 employees continue their education by attending snow plow workshops/seminars hosted by DuPage County.
	Underground Storage Tank class A/B or C operator certificate required by the State Fire Marshall for spill and leak detection.
	The Township increased the amount of times the streets are swept to prevent pollution from entering the storm sewers.
	The Township stores road salt and de-icing liquids under cover.
	The Township garage has an oil/water separator system for the floor drain and recycles used oil from equipment.
	The Township continues and expands current winter de-icing methods using more environmentally friendly geo-melt blends to pre-wet salt at spreader and spray on roads for anti-icing.
Naperville	Since 1994 the City of Naperville has operated a permanent household hazardous waste drop-off facility. This is done in conjunction with the state IEPA and any resident of the state of Illinois is allowed to use the facility.
	TED, Public Works, and Water-Wastewater employees attended numerous NPDES training, West Branch Watershed workshops, DuPage River Salt Creek Workgroup meetings and brown bag lunches.
	The Naperville Department of Public Work DPW checked and cleaned catch basins, manholes, and storm sewers throughout the year. In addition, the city has partnered with the Naperville Park District to restore the following public detention basins due to extensive sediment buildup: Buttonwood Park, Stanford Meadows, Redfield Commons, and Will-O-Way Commons.

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Oak Brook	Public Works Good Housekeeping - 2019 Totals
	Leaf pickup - 6427 Cubic Yards
	Salt usage - 910 Tons
	Street sweeping miles – 690 miles
	Inlets cleaned – 231
	Catch basins cleaned – 65
Roselle	See attachment
Warrenville	See attachment
Wayne Township	Maintenance is conducted at our yard. Inspection and maintenance are conducted on a regular schedule. Several areas of turf grass were converted to native vegetation, including the Schick Road Bike Path, the Road District yard, Glenwood and Waynewood, in addition to several other smaller bioswale areas.
	The Wayne Township Road District is committed to leading the township in water quality, primarily by installing and maintaining green infrastructure practices throughout our area. Many of these areas were erosion issues before conversion, and they now provide filtration and infiltration of water and pollutants. Maintain Road District owned property on which native vegetation was established for pollutant control purposes. These properties typically contain riparian, wetland, or floodplain areas or post-construction best management practices. The Township will also be converting more areas to native vegetation and they will be maintained as part of this BMP.
West Chicago	Safety Training 3/26/2019-Vactor Operation Training 5/22/2019-Smith Blair Clamps 6/18/2019-FLO LO VFD Training 8/6/2019-AWWA Water Loss Training 10/11/2019-Certified Flagger 11/20/2019-CPR Training
	Public Works staff completed a pollution prevention PowerPoint training and quiz (developed by Baxter and Woodman Consulting Engineers).
Westmont	The Village of Westmont is responsible for the care and upkeep of the general facilities, municipal roads, and associated maintenance yards. Many maintenance activities are most regularly performed directly by staff; however from time to time contractors are employed to perform specific activities. On-going education and training is provided to ensure that all of its employees have the knowledge and skills necessary to perform their functions effectively and efficiently.
	Street sweeping operations are performed to reduce potential illicit discharges and to provide a clean environment. The curb lines of streets are cleaned on a rotating basis. The rotation may be changed or interrupted if heavy rain occurs, the sweeper is out of order due to mechanical problems, or the Public Works Department experiences heavy workload. The in-house sweepers handle all service requests, special events and in-house construction jobs.
	Village streets are currently swept an average of 1,600 lane miles per year.

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	<p>The Village has a catch basin and storm sewer maintenance program which is carried out by the Westmont Public Works Department. The Westmont Public Works Department currently inspects, cleans, and maintains the MS4 components on a routine annual basis of approximately 5% of the storm sewer pipe system and 10% of the catch basins. The debris that is collected by Public Works is taken to a specially designed and constructed storm sewer debris dump station which is located within the Public Works facility. This dump station is utilized for drying storm sewer debris prior to hauling the solid material off-site for proper disposal.</p>
	<p>The Village of Westmont maintains its general facilities, municipal roads, associated maintenance yards, and other public areas. Municipal staff are responsible for Litter and Debris that can accumulate on Village property and roadway right-of-ways. Clean-up at park district recreation areas is the responsibility of the Westmont Park District. Village properties and right-of-ways (including municipal, Township, County and State right-of-ways within the MS4 limits) are cleaned by Public Works personnel on an as-needed basis.</p>
	<p>Yard waste and leaves from private residences are collected through the refuse collection contractor. Yard waste is collected weekly from April till November which reduces debris from landing in the street and being caught in catch basins and flowing to the waterways.</p>
	<p>During snow removal and ice control activities, salt, de-icing chemicals, abrasives and snow melt may pollute stormwater runoff. To address these potential pollutants, the following procedures for the “winter season” (November 1 through April 1) are implemented.</p>
	<p>Roadway Ice Control:</p>
	<p>The Village’s goal is to use the minimal amount of salt, de-icing chemicals and additives necessary for effective control. Prior to November 1, preparation work to obtain seasonal readiness is completed. These tasks include: inspecting and reconditioning of spreaders and spinners, installing these items onto snow removal vehicles, performing test operations, and conducting effective driver training. Performing these preparatory tasks helps ensure that only the necessary level of salt is applied.</p>
	<p>Village Public Works personnel has been taking measures to limit the use of salt due to its high cost and environmental impacts. Staff has reduced road salt usage by lowering the application rates for the salt when possible. Under certain circumstances only hills, curves, intersections, arterials, and collector streets and neighborhood connector roadways have been salted.</p>
	<p>The Public Works Department is taking a proactive approach to snow and ice control by continuing to expand the anti-icing program. The program involves the application of Therma Point R on specified streets prior to an expected storm. The application of the “supermix” through spray nozzles leaves a residual on the street which begins the melting action as soon as the snow begins to fall. This residual prevents the snow and ice from bonding to the pavement. The immediate melting action will not only give snow fighting crews time to respond but should also reduce the number of isolated slippery conditions which would normally require limited action by the Public Works Department. The program will concentrate on the downtown business district, arterials, and other known trouble spots around the Village. Anti-icing application will be done prior to storms as conditions allow. As we fully expect good results, it is our intention to continue the program each year.</p>

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	Salt Delivery and Storage:
	Steps are taken to ensure that the delivery, storage and distribution of salt does not pollute stormwater runoff from the Public Works yards. The floor of the salt storage building and adjacent receiving/unloading area are constructed of asphalt. Delivered salt is unloaded at the Village's storage dome located at 55 East Burlington Avenue. The Village has one salt dome and one covered storage bin.
	Snow Plowing:
	Snow plowing activities direct snow off the pavement and onto the parkways. This reduces the amount of salt, chemical additives, abrasives or other pollutants that go directly into the storm sewer system. Snow blowing, plowing or dumping into drainageways is not allowed.
	The Public Works Department washes all vehicles in an enclosed wash bay at their facility which drains to the sanitary sewer after passing through a triple-basin separator. Fire Department vehicles are washed at their respective fire stations in a similar manner. All Police and other smaller municipal vehicles are washed at a local privately-owned commercial car wash facility.
	The Village maintains good housekeeping habits:
	Clean Facility – picking up trash/debris; sweeping out Public Works garage minimally
	monthly
	Containers are stored orderly and away from traffic to prevent spills
	Vehicles are cleaned inside garage which drains directly to Wastewater Treatment Plant
	Storage containers are properly labeled
	Plant chemicals, petroleum are stored inside the Public Works garage
	Building floor drains are piped back to the treatment facility
Wheaton	The City vacuum swept 12,685 miles of streets which equates to each mile of City street being swept of sediment and debris over 38 times in the reporting period.
	The Public Works Yard Stormceptor was maintained based on manufacturers recommendations and cleaned twice during the permit year.
	62% of the City's storm sewer structures were inspected, cleaned, or maintained exceeding our goal of 30%. 957 Structures were inspected, 176 structures received repairs, 23 were replaced, and 2,098 were cleaned.
	27% of the City's storm sewer mains were inspected, cleaned, or maintained exceeding our goal of 10%. 187,382 LF of storm sewer was cleaned and 79,744 LF was inspected.
	All catch basin storm sewer debris was dried in the debris dump station within the Public Works facility which resulted in approximately 265 tons of sediment and debris removed from the MS4 and sent to a landfill.
Winfield	See attachment
Wood Dale	Conducted MS4 training in-house to staff.
	Street sweeping is performed on a monthly basis between April and November.
Woodridge	April 2019 –the DPW conducted an in-house training for all public works staff on NPDES/MS4 and pollution prevention / good housekeeping requirements
	August 2019 – Village's snow and ice supervisory staff attended the APWA session on Using Good Practices in Winter Maintenance

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	January 2020 - the DPW conducted an in-house training for all public works staff on NPDES/MS4 and pollution prevention / good housekeeping requirements
	March 2020 – Village staff attended the Kane DuPage SWCD SESC Seminar
	March 2020 – Village staff attended the IAFSM 2020 Annual Conference
	The Village maintained its contract with Lakeshore Recycling Services for street sweeping of the entire Village network to reduce the probability of storm water issues and reduce debris and organic waste making its way to any bodies of water. The work included the completion of 7 full sweeps over the year and additional targeted sweeps along with working with the DRSCW to undertake material sampling for chloride residuals after the winter season.
	The Village continued to incorporate liquid anti-icing and pre-wetting solutions into the snow and ice control plan to improve response and reduce chloride run off along with beginning to test Beet Heet as a new anti/deicing tool.

**F3. Municipal Operations, Stormwater Control****Goal:**

*While DCSM is compiling a comprehensive partnership area-wide storm sewer atlas, each partner agency is responsible for maintaining the storm sewer systems within their municipal, township, or county boundaries.*

**Milestone (Year 2):**

*Partner agencies have each developed their own schedules for street sweeping as well as storm sewer inspection, clean-out, and maintenance. Survey partner agencies street sweeping, storm sewer inspection, clean-out, and maintenance schedules.*

**Status:**

During the second reporting year, co-permittees conducted street sweeping as well as storm sewer inspection, clean-out, and maintenance according to established schedules. A survey was sent to agencies on street sweeping schedules in late 2018 to evaluate current practices. This has been shared with the DRSCW as part of their non-point source/ leaf litter study.

**F4. Municipal Operations Waste Disposal****Goal:**

*The ILR40 permit requires that procedures be developed for properly disposing of waste removed from the separate storm sewers and areas such as dredge spoil, accumulated sediments, floatables and other debris.*

**Milestone (Year 2):**

*Following storm sewer maintenance and cleanout activities, waste must be properly disposed of. DuPage County Public Works offers a Regional Vector Receiving Station. The station is part of a shared services initiative. It reduces the cost of disposal of public works waste and aims to keep pollutants out of area water supplies. The station processes the debris collected by public works and transportation vacuum tanker trucks. The waste is then separated into liquids and solids. The liquids are treated through the county's waste water treatment facility, while the solids are dried and eventually transferred to the garbage dump.*

**Status:**

During the first reporting year, co-permittees continued current practices to properly dispose of waste generated from storm sewer maintenance and cleanout. DuPage County continued to offer disposal facilities such as the Regional Vector Receiving Station.

**F5. Flood Management/ Assess Guidelines****Goal:**

*Ensure that new flood management projects assess the impacts on water quality and examine existing projects for incorporation of additional water quality protection devices or practices.*

**Milestone (Year 2):**

*Complete or implement 1 watershed plan, or components thereof, approved by the Stormwater Management Planning Committee and County Board per year.*

**Status:**

During the reporting year, the following water quality projects were completed. These projects contributed to the implementation of previously completed Watershed-Based Plans.

<b>Project Name</b>	<b>Project Owner</b>	<b>Watershed-Based Plan</b>	<b>Project Type</b>
Redmond Reservoir	DuPage County	Lower Salt Creek	Reservoir Expansion and Shoreline Stabilization
DuPage County Campus	DuPage County	Winfield Creek	100 Tree Plantings on campus
The Park Detention Retrofit	Village of Carol Stream	Klein Creek	Basin Retrofit
Squaw Creek Stabilization	City of Wood Dale	Lower Salt Creek	Streambank Stabilization
Cass Ave. Detention Retrofit	Village of Westmont	St. Joseph Creek	Basin Retrofit
Central Park BMPs	Oak Brook Park District	Lower Salt Creek	Dam Removal, Permeable Pavers, Bioswale
Old Town Parking Lot	Village of Bloomingdale	Lower Salt Creek	Permeable Pavers
St. Francis High School	DuPage County	Winfield Creek	Culvert Removal and Streambank Stabilization

**F6. Other Municipal Operations Controls****Goal:**

*Evaluate and encourage pre-wetting and anti-icing measures to reduce chloride runoff into waterways from roads and public surfaces.*

**Milestone (Year 2):**

*Deployment and use of pre-wetting and anti-icing measures by partner agencies. Survey partner agencies on pre-wetting and anti-icing practices.*

**Status:**

During the reporting year, DuPage County and co-permittees continued current practices for snow and ice removal on roads and public surfaces. More information on the chloride reduction efforts can be found in the DRSCW and co-permittee attachments.

The DRSCW has attempted to track adoption of sensible salting BMPs in the program area since 2007. Monitoring ambient chloride concentrations has proven an imperfect metric for tracking efficiency trends in winter salt use. Tracking target BMP adoption in the program area provides opportunities to evaluate the impacts of the chloride management workshops; identify material for future workshops and form suppositions about salt use per unit of service expended inside the program area relative to 2006 levels.

In 2007, 2010, 2012, 2014, 2016, and 2018, the DRSCW distributed a questionnaire to approximately 80 municipal highway operations and public works agencies to obtain information about deicing practices throughout the program area. The 2018 Deicing Program Summary Report is included in attachments.

## SECTION C

### **Monitoring Data**

DuPage County in partnership with the cooperating municipal and township permit holders listed in the cover letter have collected a substantial amount of information, including monitoring data, during the reporting period as members of the DuPage River Salt Creek Workgroup. Some co-permittees are also members of the Lower Des Plaines Watershed Group and/ or the Lower DuPage River Watershed Coalition.

Watershed Workgroup quality monitoring program is made up of two components: 1) Bioassessment and 2) DO monitoring. Monitoring data is included as an attachment to this report.

**SECTION D**

**Proposed activities during the next reporting cycle:**

None at this time in addition to what is listed on the NOI.

## SECTION E

### **Reliance on other government entities:**

The co-permittees listed in the cover letter rely on established DuPage County programs to satisfy some of the General NPDES Permit No. ILR40 obligations for the six minimum control measures; Public Education and Outreach, Public Participation/ Involvement, Illicit Discharge Detection and Elimination, Construction Site Runoff Control, Post-Construction Runoff Control, and Pollution Prevention/ Good Housekeeping.

## SECTION F

**List of construction projects:**

<b>Project Name</b>	<b>Disturbed Acres</b>	<b>County Entity Constructing Project</b>	<b>Date of NOI</b>
Graue Mill Flood Protection Improvements	1.5	Stormwater Management / Village of Hinsdale	4/14/2016
Redmond Reservoir Expansion	5.6	Stormwater Management / Village of Bensenville	5/21/2018
55 <sup>th</sup> Street	15.5	Transportation	2/26/2017

Up to date list of current DuPage County projects can be found here:

[http://www.dupageco.org/EDP/Stormwater\\_Management/Water\\_Quality/1361/](http://www.dupageco.org/EDP/Stormwater_Management/Water_Quality/1361/)

**Attachments**