



**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

June 1, 2017

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 Year 14
Third Notice of Intent Year 1

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 permit year 14. This report includes activities that were undertaken and achieved for all of DuPage County. Thirty one municipalities and nine township highway districts have chosen to participate as cooperating permit holders in our countywide local qualifying effort for this permit program as requested by the IEPA Division of Water Pollution Control Permit Section 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 permit numbers are included as participating in the enclosed report of permit achievements for the 14th year of the permit term:

<u>Municipality</u>	<u>ILR40 MS4 Permit #</u>
DuPage County	0502
Village of Addison	0227
Village of Bartlett	0286
Village of Bensenville	0292
Village of Bloomingdale	0295
Village of Carol Stream	0308
City of Darien	0180
Village of Downers Grove	0183
City of Elmhurst	0187
Village of Glen Ellyn	0199
Village of Hinsdale	0355
Village of Lemont	0497
Village of Lombard	0378
City of Naperville	0396
City of Oakbrook Terrace	0232
Village of Roselle	0437
Village of Villa Park	0463



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City of Warrenville	0274
Village of Wayne	0500
City of West Chicago	0466
Village of Westmont	0254
City of Wheaton	0470
Village of Willowbrook	0255
Village of Woodridge	0480

Township Highway/Road Districts

Addison Township Highway Department	0001
Bloomington Township Highway Department	0013
Lisle Township Highway Department	0079
Milton Township Highway Department	0086
Naperville Township Highway Department	0092
Wayne Township Highway Department	0149
Winfield Township Highway Department	0155
York Township Highway Department	0159

The AFIRs of the municipalities that were not included in this first submittal, but may have already been sent out to IEPA individually, are:

<u>Municipality</u>	<u>ILR 40 MS4 Permit #</u>
Village of Clarendon Hills	0175
Village of Glendale Heights	0342
Village of Hanover Park	0347
Village of Itasca	0360
Village of Lisle	0376
Village of Oak Brook	0407
Village of Winfield	0474
Village of Wood Dale	0478
<u>Township Highway/Road Districts</u>	
Downers Grove Township Highway Department	0040

If you have any questions about the information contained within the attached annual report submittal, please call (630) 407-6720.

Regards,

Anthony J. Charlton
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, 2016 To March, 2017

Permit No. ILR40 400502

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

Name: DuPage County 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: Anthony J. Charlton Email Address: Charlton@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)

Unincorporated 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:
Anthony J. Charlton

Printed Name:

Date:
Director, Stormwater Management

Title:

EMAIL COMPLETED FORM TO: 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.

2016 ANNUAL FACILITY INSPECTION REPORT

DUPAGE COUNTY NPDES PERMIT # ILR400502

SECTION A

No changes were made to Best Management Practices during the reporting year from the County of DuPage 2016 Notice of Intent, Permit No. ILR40 0502 dated May 16, 2016

SECTION B

Section A:

Public Education and Outreach

A1. Distribution of Paper Material

Goal:

Develop and distribute both paper and electronic material regarding the control of pollutants from seasonal sources and activities.

Milestone (Year 1):

Develop or update 1 brochure or packet.

Status:

During the reporting year, DuPage County Stormwater staff created or updated the following educational materials:

Brochures

- Pet Waste
- Rain Barrel Benefits
- Sustainable Lawn Care
- Springing Into Summer
- Falling Into Winter
- Know Your Watershed: Back to Basics

Booklets

- Homeowners' Guide to Preventing & Repairing Flood Damage

These and other educational materials are distributed at events, at the DuPage County offices, are shared with municipalities and townships for distribution, and are available on our website:

https://www.dupageco.org/EDP/Stormwater_Management/1163/

A2. Speaking Engagement**Goal:**

Engage interested parties through presentations detailing water quality trends for DuPage County waterways and highlighting practices that can reduce the transport of pollutants along with stormwater into those same waterways.

Milestone (Year 1):

Conduct 5 presentations.

Status:

DuPage County Stormwater staff presents at and hosts educational workshops and conferences throughout the county to educate the 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 DuPage County Stormwater staff during the reporting year:

Event	Date	Location	# of Attendees	NPDES Category	Involvement
Downers Grove HS Quarry Tour	1-Mar-16	Elmhurst	40	Education & Outreach	Host, Speaker
Salt Creek Workshop	8-Mar-16	Addison	40	Education & Outreach	Host, Speaker
DuPage Communicator Meeting	8-Apr-16	Addison	25	Education & Outreach	Speaker
NPDES training	12-Apr-16	Wheaton	20	Pollution Prevention/Good Housekeeping	Speaker
EBDR Workshop	13-Apr-16	Downers Grove	45	Education & Outreach	Host, Speaker
WBDR Tour	28-Apr-16	Multiple	40	Education & Outreach	Host, Speaker

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St. Joseph Creek Steering Cmte	5-May-16	Wheaton	20	Public Involvement/Participation	Host, Speaker
Adopt-a-Stream Spring Kickoff	12-May-16	Naperville	15	Public Involvement/Participation	Host, Speaker
St. Joan of Arc Water Quality Flag	18-May-16	Lisle	100	Education & Outreach	Sponsor, Speaker
Roy DeShane Water Quality Flag	20-May-16	Carol Stream	100	Education & Outreach	Sponsor, Speaker
Wheaton Christian Water Quality Flag	20-May-16	Wheaton	100	Education & Outreach	Sponsor, Speaker
Glendale Water Quality Flag	25-May-16	Glendale Heights	100	Education & Outreach	Sponsor, Speaker
Watershed Partnership Event	25-May-16	Wood Dale	50	Pollution Prevention/Good Housekeeping	Host, Speaker
Living Waters Quarry Tour	13-Jun-16	Elmhurst	20	Education & Outreach	Host, Speaker
Living Waters Teacher Education-Wetlands	15-Jun-16	West Chicago	20	Education & Outreach	Speaker
Wheaton Library Water Quality Flag	20-Jun-16	Wheaton	20	Education & Outreach	Sponsor, Speaker
APA Building Climate Resilience	23-Jun-16	Chicago	50	Pollution Prevention/Good Housekeeping	Speaker
St. Joseph Creek Steering Cmte	27-Jun-16	Wheaton	20	Public Involvement/Participation	Host, Speaker

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Bakken Crude Oil Workshop and Tabletop Exercise	30-Aug-16	Elmhurst	150	Pollution Prevention/Good Housekeeping	Sponsor, Speaker
Resiliency Lunch & Learn	15-Sep-16	Oak Park	50	Education & Outreach	Speaker
Chloride Reduction Workshop for Private Operations	22-Sep-16	Wheaton	150	Pollution Prevention/Good Housekeeping	Sponsor, Speaker
Chloride Reduction Workshop for Public Operations	27-Sep-16	Wheaton	200	Pollution Prevention/Good Housekeeping	Sponsor, Speaker
West Branch DuPage River Watershed Green Workshop	5-Oct-16	Naperville	40	Education & Outreach	Host, Speaker
East Branch DuPage River Watershed Green Workshop	16-Nov-16	Downers Grove	40	Education & Outreach	Host, Speaker
Museum of Science and Industry STEM Workshop	9-Dec-16	Chicago	100	Education & Outreach	Speaker
Salt Creek Watershed Green Workshop	26-Oct-17	Addison	40	Education & Outreach	Host, Speaker
IAFSM Conference	9-10-Mar-16	Tinley Park	560	Education & Outreach	Speaker(s)
ILCA i-Landscape	Feb. 1 - Feb. 3	Schaumburg		Education & Outreach	Speaker

A3. Public Service Announcement

Goal:

Disburse press releases, public service announcements, and messages through social media to residents of the entirety of DuPage County. These messages detail water quality trends for DuPage County waterways and highlight practices that can reduce the transport of pollutants along with stormwater into those same waterways.

Milestone (Year 1):

Broadcast 8 messages detailing water quality trends.

Status:

During the reporting year, DuPage County Stormwater staff disbursed information on water quality trends, largely through social media.

- Monthly Newsletter with approx. 4,000 subscribers
<http://www.dupageco.org/stormwater/news.aspx>
- Facebook, Twitter & Instagram with more than 400 followers
www.twitter.com/lovebluedupage
www.facebook.com/lovebluedupage
www.instagram.com/lovebluedupage
- YouTube with nearly 20 outreach/training videos with more than 5,000 combined views
<https://www.youtube.com/user/lovebluelivegreen>

A4. Community Event**Goal:**

Present, through booths, workshops, or presentations water quality issues to members of the community. Presentations detail water quality trends for DuPage County waterways and highlighting practices that can reduce the transport of pollutants along with stormwater into those same waterways.

Milestone (Year 1):

Host or attend 2 events to educate the public on water quality trends.

Status:

DuPage County Stormwater staff attends, presents at, and hosts events throughout the county to educate the public about water quality trends and issues. Many of these events are open to all members of the public. During the reporting year, DuPage County Stormwater staff hosted and attended the following events:

Events hosted /attended/ presented at by DuPage County staff

Event	Date	Location	# of Attendees	NPDES Category	Involvement
MS4 Audit Webinar	16-Mar-16	Wheaton	40	Pollution Prevention/Good Housekeeping	Host
RainReady Seminar	24-Mar-16	Naperville	70	Education & Outreach	Host
Municipal Engineers Discussion Group	5-Apr-16	Wheaton	37	Education & Outreach	Host
Sustainable Design Challenge	5-Apr-16	Wheaton	200	Education & Outreach	Host
Elmhurst STEM Quarry Tour	13-Apr-16	Elmhurst	6	Education & Outreach	Host

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York HS Quarry Tour	26-Apr-16	Elmhurst	40	Education & Outreach	Host
Municipal Engineers Discussion Group	5-May-16	Wheaton	37	Education & Outreach	Host
NPDES Technical Seminar	18-May-16	Wheaton	75	Pollution Prevention/Good Housekeeping	Host
Rain Barrel Event	19-May-16	Wheaton	500	Public Involvement/Participation	Host
Downers Grove PW Open House	20-May-16	Downers Grove	100	Education & Outreach	Booth
Municipal Engineers Discussion Group	9-Jun-16	Wheaton	41	Education & Outreach	Host
GroveFest	25-Jun-16	Downers Grove	1000	Education & Outreach	Booth
Municipal Engineers Discussion Group	4-Aug-16	Wheaton	42	Education & Outreach	Host
Summerdaze	5-Jul-16	Warrenville	75	Education & Outreach	Booth
Cantigny Dog Days	6-Jul-16	Winfield	100	Education & Outreach	Booth
Cruzin' Nights	11-Jul-16	Westmont	110	Education & Outreach	Booth
DuPage Senior Fair	14-Sep-16	Wheaton	200	Education & Outreach	Booth

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Municipal Engineers Discussion Group	6-Oct-16	Wheaton	43	Education & Outreach	Host
Retrofitting Revisited Webinar	12-Oct-16	Wheaton	20	Education & Outreach	Host
Municipal Engineers Discussion Group	3-Nov-16	Wheaton	39	Education & Outreach	Host
Downers Grove North HS Quarry Tour	8-Nov-16	Elmhurst	50	Education & Outreach	Host
Green Infrastructure Design & Maintenance for MS4 Communities	30-Nov-16	Addison	200	Pollution Prevention/Good Housekeeping	Host
Municipal Engineers Discussion Group	8-Dec-16	Wheaton	42	Education & Outreach	Host
Downers Grove South HS Quarry Tour	8-Dec-16	Elmhurst	50	Education & Outreach	Host
Environmental Summit	19-Jan-17	Naperville	300	Education & Outreach	Booth
Municipal Engineers Discussion Group	9-Feb-17	Wheaton	41	Education & Outreach	Host
Green Infrastructure & Grants Symposium	28-Feb-17	Wheaton	100	Education & Outreach	Host
Beyond the Basics Seminar	13-14-Sep-16	Woodridge	500	Education & Outreach	Sponsor, Booth

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IWEER Wetland Delineation Training	18-21- Jul-16		50	Education & Outreach	Host
Wetland Plant Identification	27-30- Sep-16		50	Education & Outreach	Host

**The Green Infrastructure Design & Maintenance for MS4 Communities workshop was also recorded. Video links were provided to attendees to share with employees and colleagues who were not able to attend in person as well as new and seasonal employees upon hire.*

Events hosted/ attended by S.C.A.R.C.E. - supported by DuPage County:

Event (key at bottom)	Date	Location	# of Attendees	NPDES Category (key at bottom)	Involvement
Girl Scout Service Unit Meeting, WSM, Program Opportunities, SWM, Q&Q	7-Mar-16	Elmhurst	16	COM	Girl Scouts
Q&Q, RB, NP, SWM, BMP	8-Mar-16	Lisle	50	COM	Brookdale Senior Living
LP, RB, Q&Q, Rx	8-Mar-16	Glen Ellyn	14	COM	Cub Scouts
Green Audit - GC, RB, NP, BMP	10-Mar-16	Wheaton	5	COM	St. Matthew's Church
Green Audit	11-Mar-16	Naperville	14	COM	Naperville Public Library
WSM	14-Mar-16	Wheaton	7	GOV	Wheaton Park District
LP, RB, Q&Q, Rx	15-Mar-16	Lisle	40	COM	Morton Arboretum
Water Quality Flag, Lead - Free Hoses	16-Mar-16	Wheaton	17	COM	Girl Scouts

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Water Quality Flag, Leak Detection Tablets	16-Mar-16	Glen Ellyn	15	COM	Cub Scouts
LP, RB, Q&Q, Rx	17-Mar-16	Downers Grove	38	COM	Cub Scouts
RB, NP, PP, SWM, BMP, Rx, Q&Q, Phos., GC, LP, AB	18-Mar-16	Wheaton	14	COM	Brownie Scouts
WSM, RB, NP, PP, GB, SWM, BMP, Q&Q, GR, Rx, LP	19-Mar-16	Glen Ellyn	18	COM	South Minster Church
LP, RB, Q&Q, Rx	21-Mar-16	Glen Ellyn	923	COM	Glen Ellyn Public Library
RB, PP, NP, GB, SWM, BMP, Q&Q, Rx, GC, LP, AB, Phos.	22-Mar-16	Wheaton	9	COM	Girl Scouts
WSM, RB, NP, PP, GB, SWM, BMP, Q&Q, GR, Rx, LP, AB	23-Mar-16	Wheaton	54	GOV	Wheaton Public Library
Rx, RB, NP, SWM, BMP	24-Mar-16	Wheaton	15	GOV	Wheaton Public Library
LP, RB, Q&Q, Rx	24-Mar-16	Wheaton	21	COM	Wyndemere
WSM Loan	28-Mar-16	Naperville	12	COM	Boy Scouts
Rx, GC	29-Mar-16	Oak Brook	15	COM	Girl Scouts
LP, AB, Rx, Beet-55, Q&Q, GC, NP, RB, PP, GB, SWM, BMP, GR, Phos, ER, Local Flooding, Cooking Oil Recycling	31-Mar-16	Glen Ellyn	21	COM	Marian Park
LP, AB, Rx, Beet-55, Q&Q, GC, NP, RB, PP, GB, SWM, BMP, GR, Phos, ER, Local Flooding, Cooking Oil Recycling	1-Apr-16	Glen Ellyn	25	COL	College of DuPage
WSM	10-Apr-16	Downers Grove	70	COM	1st United Methodist Church
RB, NP, PP, SWM, BMP, Rx	11-Apr-16	Wheaton	35	COM	Marianjoy

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LP, RB, Q&Q, Rx	11-Apr-16	Elmhurst	15	COM	Girl Scouts
RB, Leak Tablets, Rain Gauges, BMP, NP, SWM, Q&Q	12-Apr-16	Wheaton	26	GOV	Wheaton Public Library
Rx, Lead-Free Hoses	13-Apr-16	Villa Park	18	COM	Kiwanis Club
LP, RB, Q&Q, Rx	13-Apr-16		13	COM	Scouts
WSM	15-Apr-16	Downers Grove	50	B	Havi Global Solutions
Green Audit, NP, RB, SWM, BMP	15-Apr-16	Downers Grove	1	B	Peace Memorial Manor
LP, RB, Q&Q, Rx	15-Apr-16	Lombard	14	COM	Brownie Scout
Rx, RB, BMP	17-Apr-16	Wheaton	27	COM	St. Paul Lutheran
Rx	18-Apr-16	Glen Ellyn	4	COM	Our Savior Church
LP, RB, Q&Q, Rx	18-Apr-16	Glen Ellyn	26	COM	Girl Scouts
Rx, Water Quality Flag	19-Apr-16	Woodridge	3	GOV	City of Woodridge
Rx, NP, RB, Phos.	21-Apr-16	Roselle	1	COM	Roselle Garden Club
WSM	23-Apr-16	Wheaton	350	COM	Wheaton Park District
Rx, Q&Q	25-Apr-16	Downers Grove	24	COM	Peace Memorial Manor
Staff Training	25-Apr-16	Downers Grove	6	B	Peace Memorial Manor
Green Team Meeting, NP, Lead - Free Hoses	27-Apr-16	Wheaton	13	GOV	Wheaton Park District
WSM Training	27-Apr-16	Glen Ellyn	12	COL / COM	College of DuPage
RB, Lead - Free Hoses	29-Apr-16	Wheaton	1	GOV	Wheaton Public Library

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NP, BMP, Native Plant Sale	30-Apr-16	Wheaton	50	GOV	City of Wheaton
WSM	30-Apr-16	Glen Ellyn	1,000	COL / COM	College of DuPage
Get Your Garden Growing Green	9-May-16	Glen Ellyn	300	COM	SCARCE
RB, NP, SWM, BMP	14-May-16	Elmhurst	8	COM	Daughters of The American Revolution
WSM	16-May-16	Schaumburg	5602	COM	Schaumburg Public Library
LP, RB, Q&Q, Rx	18-May-16	Elmhurst	21	COM	Brownies
	20-May-16	West Chicago	2	GOV	West Chicago Family Center
WSM, NP, PP, RB, LP, SWM, BMP, GR, Rx	20-May-16	Downers Grove	60	COM	Downers Grove Public Works Open House
WSM - Blooming Fest	23-May-16	West Chicago	730	COM	City of West Chicago
Cooking Oil Recycling, BMP	23-May-16	Bensenville	2	GOV	City of Bensenville
WSM	31-May-16	Westmont	5	COM	Forest Preserve District of DuPage County
RB, NP, SWM, BMP, Rx, Q&Q, WSM	1-Jun-16	Woodridge	1	COM	Miller E.S.
RB, Q&Q, BMP	2-Jun-16	West Chicago	1	COM	Girl Scouts of America
Q&Q	4-Jun-16	Wheaton	75	GOV	Healthy West Chicago
RB, Lead - Free Hoses, BMP	7-Jun-16	Lombard	23	COM	City of Wheaton

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WSM	11-Jun-16	Aurora	200	GOV	Prairie Food Co - Op
NP	20-Jun-16	DuPage County	2	GOV	SCARCE
Q&Q	21-Jun-16	Darien	135	COM	Lace E.S.
WSM - RB, NP, PP, GR, SWM, BMP, Rx, Q&Q, LP	11-Jul-16	Naperville	142	COM	SCARCE
Rx, NP, PP, RB, SWM, BMP, Q&Q, GC, LP, AB	12-Jul-16	Naperville	7	COM	North Central College
RB, NP, PP, SWM, BMP, Q&Q, Rx, GC, LP, AB	15-Jul-16	Wheaton	27	GOV	Holistic Moms Network
LP, AB, Rx, Beet-55, Q&Q, GC, NP, RB, PP, GB, SWM, BMP, GR, Phos, ER, Local Flooding, Cooking Oil Recycling	18-Jul-16	Glen Ellyn	23	COL	Wheaton Park District
RB, NP, PP, SWM, BMP, Q&Q, GC, LP, AB	19-Jul-16	Wood Dale	13	B	College of DuPage
Green Audit - NP, PP, SWM, BMP, Q&Q, BS, GC, LP	20-Jul-16	Clarendon Hills	3	B	ETS - Lindgren
NP, RB, PP, SWM, BMP, Q&Q, BS	28-Jul-16	Clarendon Hills	3	GOV	Village of Clarendon Hills
RB, NP, Q&Q, LP, SWM, BMP	28-Jul-16	Roselle	33	COM	Village of Clarendon Hills
WSM, NP, PP, SWM, BMP, Q&Q, GR, LP	4-Aug-16	Bloomington	20	COM	Trinity Luther Church
WSM Loan	5-Aug-16	Wheaton	1	GOV	Old Town Bloomington Farmers Market
SDC	5-Aug-16	Itasca	1	B	DuPage County Stormwater
RB, Q&Q, Phos., Flooding, SWM, Water Quality Flag	10-Aug-16	Wheaton	26	COM	Cosmic Montessori

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Rx, GC, BMP, SWM, NP, Leak Detection Tablets	17-Aug-16	Wood Dale	6	GOV	Eisenhower Jr. High
RB, NP, PP, GB, SWM, BMP, Q&Q, Phos, GC, LP	23-Aug-16	Wheaton	33	GOV	Wood Dale For A Greener Tomorrow
WSM, GR, LP, Rx	23-Aug-16	Villa Park	38	COM	Wheaton Park District
Rx, AB, Q&Q, LP, NP	24-Aug-16	Lombard	23	COM	Villa Park Garden Club
LP, AB, Phos., Rx, Q&Q, PP, NP, RB, GR, SDC, SWM, BMP	26-Aug-16	Roselle	28	GOV	College Preparatory School of America
RB, NP, SWM, BMP	27-Aug-16	Westmont	18	COM	Roselle Public Library
RB, NP, PP, SWM, BMP, GR, BS, GC, AB	30-Aug-16	Bloomington	1	GOV	Liberty Park HOA
Water Quality Flag, WS, NP, RB, SWM, BMP, HHW, Q&Q, RX, COO	9/10/2016	Wheaton	23	CE, CB	Bloomington Public Library
RXBox, Cooking Oil, HHW	9/13/2016	Naperville	80	CB	DuPage County School Nurse Network
Rx, GC, COO, Q&Q, HHW, SDC, AB,	9/13/2016	Glen Ellyn	22	COL	Naperville Library
COO, COW, HHW, RX	9/15/2016	Glendale Heights	7	COM	Cosmic Montessori
RB, WS, LP	9/16/2016	Glen Ellyn	1	COM	Pierce Downer Elementary
HHW, Rx	9/17/2016	Glendale Heights	18	CB	College of DuPage Environmental Club

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HHW, RX, COO	9/18/2016	Wheaton	33	COM	Glenside Library
RB, NP, PP, GB, GR, COO, COW, RX, GC, AB,	9/20/2016	Bloomingdale	38	COM	St. Matthew Church
LP, COO, COW, RX, Q&Q, GB, HHW, GR, NP, PP, NP	9/21/2016	Glen Ellyn	28	COL	West Chicago School District 33
BMP, SWM, Q&Q	9/22/2016	Naperville	43	BUS	College of DuPage
NP, GB, HHW, Q&Q, COO, GR, RX, GC, LP, RE, AB	9/22/2016	Glen Ellyn	16	COL	Naperville Sustainability Committee
RB, NP, PP, HHW, Q&Q, RX, COO, GC, LP	9/23/2016	Wheaton	38	COM	College of DuPage
RB, NP, PP, HHW, Q&Q, GR, BS, RX, COO, SDC, GC, LP, AB, ER	9/23/2016	Bloomingdale	48	GOV	Wheaton Park District Staff
RB, NP, PP, HHW, Q&Q, GR, BS, RX, COO, GC, LP, RE	10/3/2016	Glen Ellyn	16	COL	Avery Coonley School
RB, HHW, LP	10/5/2016	Elmhurst	24	Y	College of DuPage
Cooking Oil, RX, HHW, COO	10/5/2016	Glen Ellyn	18	COM	Visitation School Cub Scouts
NP, RX, HHW, COO, Q&Q, LP	10/6/2016	Glen Ellyn	26	COM	Franklin Middle School
NP, HHW, Q&Q, COO, COW, RB	10/6/2016	Carol Stream	34	COM	Hawthorne Garden Club
HHW, RX, COO, Cooking Oil	10/12/2016	Glen Ellyn	55	B	College Preparatory School of America
WSM, WAF, RX, LP, RB, PP, NP, BMP, RE, Q&Q, HHW, PHOS	10/23/2016	Wheaton	1000	CE	Peacock Middle School
COO, COW, COC, HHW, RX, COR	10/27/2016	Bloomingdale	40	CB	Mill Street

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					Elementary Environmental Club
Q&Q, RX, HHW, Cooking Oil, Storm Water Medallions, COO	10/27/2016	Wood Dale	16	GOV	Old Town Bloomingdale Farmer's Market
NP, PP, BMP, HHW, Q&Q, LP	10/28/2016	Wheaton	182	GOV	Wood Dale City Council
COR implementation	11/3/2016	Bartlett	1	GOV	School District 45 Conservation Committee
RB, NP, PP, SWM, HHW, Q&Q, GR, BS, RX, COO, PHOS, NL, WS, LP, BMP, COC, COR	11/4/2016	Warrenville	700	C, Y	Norton Creek School Earth Savers
COC, Pumpkin collection	11/5/2016	DuPage County	1400	CE	Hubble Middle School
RB, NP, PP, SWM, HHW, Q&Q, GR, RX, COO, WS, LP, COR, BMP, BS	11/9/2016	Lombard	12	B	Benet Academy
NP, SWM, BMP, HHW, Q&Q, BS, RX, COO, PHOS, LP, AB, NL, COC, COR	11/9/2016	Carol Stream	26	GOV	Westin Hotel
COR - expansion	11/10/2016	West Chicago	1	GOV	WSDRA
RB, HHW, Q&Q, RX, COO, COW, LP	11/10/2016	Glen Ellyn	16	Y	West Chicago Environmental Commission
Q&Q, Oil Spill activity	11/11/2016	Glen Ellyn	2	COM	St. Petronille's Boy Scouts

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HHW, RX, Compost: backyard, worms, curbside;	11/12/2016	Downers Grove	19	Y	Glen Ellyn Library
COR, Expanding to more sites, events	11/14/2016	DuPage County	1	B	El Sierra Elementary
COR - implementation	11/15/2016	Batavia	1	GOV	Green Grease
RB, WQF, RX, HHW, COR	11/15/2016	West Chicago	1	COM	Village of Batavia
COR, RX, HHW, COW, COO, COC, LP	11/16/2016	West Chicago	1	COM	People Made Visible
RX, COR, HHW	11/22/2016	Oak Brook	25	CB	School District 44
PP, SWM, HHW, Q&Q, GR, BS, COW, WS, LP	11/28/2016	Downers Grove	12	Y	Barnes & Noble
RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	11/30/2016	Glen Ellyn	15	COL	Indian Trail Elementary Girl Scouts
ROE Institution Day	12/1/2016	Wheaton	1	GOV	College of DuPage Environmental Biology
ROE STEM Event	12/1/2016	Lombard	1	GOV	Host (Regional Office of Education)
Rain Barrel	12/2/2016	Glen Ellyn	1	GOV	Host (Glen Ellyn Public Library)
Storm Drain Medallions, Water Quality Flag	12/2/2016	Hanover Park	1	GOV	Host (Hanover Park Public Works)
Rain barrel, quantity and quality, litter prevention	12/6/2016	Glen Ellyn	13	COM	Host (Cub Scout Pack 52 Den 6)

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WSM Loan	12/8/2016	Wheaton	1	GOV	Host (DuPage County)
Cooking oil recycling, stormdrain medallions	12/8/2016	Wood Dale	3	GOV	Host (Wood Dale for a Greener Tomorrow)
Rain barrel, quantity and quality, litter prevention	12/10/2016	Wheaton	18	COM	Host (Boy Scouts)
Fertilizers, pesticides, water quality	12/12/2016	Carol Stream	8	COM	Host (Windsor Park Retirement Home)
Rx	12/13/2016	Villa Park	25	COM	Host (Villa Park Rotary)
Water Quality Flag	12/16/2016	Naperville	2	GOV	Host (Naperville Township)
Sustainable Design Planning Meeting	12/20/2016	Wheaton	3	GOV	Host (DuPage County)
WSM Workshop	1/5/2017	DuPage County	3	COM	Host (DPC Community Leaders)
SDC Planning Meeting	1/5/2017	Glen Ellyn	3	GOV	Host (SCARCE)
STEM, Next Generation Science Standards, Summer Water Workshop, Institute Day Workshop	1/6/2017	Glen Ellyn	1	GOV	Host (ROE)
SDC Planning Meeting	1/6/2017	Wheaton		GOV	Host (DPC & DPC Health Dept.)
NP, Quantity and Quality, Cooking Oil Recycling	1/10/2017	DuPage County	6	COM	Host (DPC Residents)

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Rain barrel, LP, Quantity and Quality, Rx, COO, COW, COR, ER	1/10/2017	Elmhurst	5	COM	Host (Cub Scouts)
Cooking Oil, Rx	1/11/2017	Oak Brook	13	GOV	Host (DuPage Mayors & Mangers)
Rx, Cooking Oil	1/11/2017	Glen Ellyn	22	COM	Host (Central DuPage Kiwanis)
Rain barrel, LP, Quantity and Quality, Rx, COO, COW, COR, ER	1/17/2017	Lombard	15	COM	Host (Girl Scouts)
Quantity and Quality, BS, Rx, COO, COC, COR, WSM, SDC, LP, Er	1/19/2017	Naperville	225	COM, GOV	Host (Conservation Foundation & DuPage County)
Rain barrel, LP, Quantity and Quality, Rx, COO, COW, COR, ER	1/20/2017	Wheaton	19	COM	Host (Daisy Scouts)
Rain barrel, NP, PP, SWM, BMP, HHW, Q&Q, GR, Rx, COC, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	1/23/2017	Glen Ellyn	24	COL	Host (College of DuPage)
WSM, PP, NP STEM	1/27/2017	Glen Ellyn	1	COL	Host (College of DuPage)
Cooking Oil, Rx	1/31/2017	Carol Stream	17	COM	Host (Carol Stream Crossing APT. Complex)
RB, LP, Q&Q, Rx, Cooking Oil	1/31/2017	Elmhurst	18	COM	Host (Daisy Scouts)

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Rx, Nutrient Load, LP, Leak Detection Tablets	2/7/2017	Glen Ellyn	28	COM	Host (Glen Ellyn Women's Club)
RB, LP, Q&Q, Rx, Cooking Oil	2/7/2017	Glen Ellyn	14	COM	Host (Girl Scouts)
SWM, Q&Q, BMP	2/8/2017	Wheaton	1	B	Host (Marianjoy Rehab Hospital)
NP, RB, SWM, Q&Q, BMP	2/8/2017	Wheaton	1	COM	Host (St. Matthew UCC)
Q&Q, NP, PP, RB, SWM, BMP, Rx, GR, COR, GC, LP, AB	2/9/2017	Wheaton	6	COM	Host (St. Matthew UCC)
SDC Planning Meeting	2/13/2017	Wheaton	3	GOV	Host (DPC Health Department)
Water Quality Flag	2/13/2017	Wheaton	4	GOV	Host (Wheaton Park District)
AB, CCO, LP, Q&Q, Rx	2/15/2017	Glen Ellyn	22	COM	Host (First Presbyterian Church)
SWM, NP, PP, GC, Lead Free Hoses	2/21/2017	Wheaton	26	GOV	Host (Regional Office of Education)
RB, NP, PP, GB, SWM, BMP, Rx, Q&Q, GR, BS, COR, GC, LP, AB	2/21/2017	Glen Ellyn	20	COL	Host (College of DuPage)
Herbicide usage, Watersheds of DPC, Q&Q, Rx, Lead Free Hoses	2/22/2017	Carol Stream	53	COM	Host (Windsor Park)
Rx, Lead Free Hoses, Q&Q	2/23/2017	Elmhurst	4	COM	Host (Public Perspectives)

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Rx, Q&Q, COR, BMP	2/23/2017	Glen Ellyn	21	COM	Host (Glen Ellyn Rotary)
WSM Training	2/24/2017	Glen Ellyn	6	COL	Host (College of DuPage)
Sustainable Design Challenge, NP, RB, SWM, Stream clean-up	2/27/2017	Wheaton	2	B	Host (DPC Fairgrounds)
			15414		

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, ST - Student, T - Teachers, TW - Teacher Workshop, Y - Youth

A5. Classroom Educational Material**Goal:**

Educate school aged children regarding the basic principles of watersheds and practices to reduce the transfer of pollutants to waterways, including rain gardens, rain barrels, permeable pavers, green roofs, native plants, bioswales, and various source control measures.

Milestone (Year 1):

Outreach programs with 300 students in attendance.

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:

Event (key at bottom)	Date	Location	# of Attendees	NPDES Category (key at bottom)	Involvement
Q&Q, AB, Coal - Tar	2-Mar-16	Villa Park	26	T	School District 45
RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, Phos., LP, AB	2-Mar-16	Lisle	7	T, ST	Schiesher E.S.
Institute Day Workshop	4-Mar-16	DuPage County	21	T	DPC Teachers
WSM	7-Mar-16	Westmont	2	T, ST	Maercker E.S.
Water Quality Flag	7-Mar-16	Carol Stream	32	T	Roy De Shane
WSM Loan	8-Mar-16	Addison	1	T, ST	Addison Trail H.S.
WSM Training Workshop	10-Mar-16	Lisle	2	T	St. Joan of Arc
Q&Q, Leak Detection Tablets	15-Mar-16	Naperville	550	ST	Meadow Glen E.S.

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LP, RB, Q&Q, Rx	16-Mar-16	Villa Park	22	T	School District 45
LP, RB, Q&Q, Rx	17-Mar-16	Villa Park	4	T, ST	Jefferson M.S.
RB, PP, NP, SWM, BMP, Q&Q, Rx, GR	23-Mar-16	Wheaton	8	T, ST	Franklin M.S.
WSM	7-Apr-16	Carol Stream	1	T, ST	Roy De Shane E.S.
LP, Q&Q	8-Apr-16	Naperville	5	ST	Owen E.S.
Q&Q	11-Apr-16	Glen Ellyn	2	T, ST	Hadley Jr. High
RB, NP, PP, GB, SWM, BMP, Q&Q, GR, Rx, Phos.,GC, LP, AB,	14-Apr-16	Downers Grove	27	T	St. Mary of Gostyn
RB, NP, PP, SWM, BMP, Q&Q, LP	15-Apr-16	Downers Grove	27	T, ST	St. Mary of Gostyn
WSM Loan	18-Apr-16	Glen Ellyn	1	T, St	Glenbard South H.S.
WSM Loan	19-Apr-16	Lisle	1	T, ST	St. Joan of Arc
WSM Loan	20-Apr-16	Carol Stream	1	T, ST	Glenbard North H.S.
Q&Q, RB, NP, PP, SWM, BMP, Phos., LP, AB	22-Apr-16	Darien	24	T, ST	Cass Jr. High
WSM Loan	25-Apr-16	Lombard	1	T, ST	Pleasant lane School
WSM Loan	25-Apr-16	Winfield	1	T, ST	Wheaton Christian Grammar
WSM	26-Apr-16	Winfield	1	T, ST	Wheaton Christian Grammar
WSM	28-Apr-16	Hanover Park	2	T, St	Springwood M.S.
SWM, Stormdrain Medallions	3-May-16	Downers Grove	2	T, GOV	Downers Grove North & South H.S. & Village of Downers Grove
Q&Q, SWM, BMP, RB, NP, PP, Rx, AB, GB	5-May-16	Wheaton	1	T, ST	Wheaton North H.S.

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NP, LP	6-May-16	Carol Stream	3	T, ST	Roy De Shane
WSM	6-May-16	Hanover Park	1	T, ST	Springwood M.S.
WSM	6-May-16	Hanover Park	1	T	Springwood M.S.
SWM, Stormdrain Medallions, BMP	7-May-16	Wheaton	1	T	Wheaton Warrenville South H.S.
WSM	10-May-16	Hanover Park	1	T, ST	Springwood M.S.
SWM, Stormdrain Medallions	12-May-16	Glendale Heights	58	T	Marquardt M.S.
Water Quality Flag , Q&Q, Lead - Free Hose	17-May-16	Glen Ellyn	1	T	St. Petronille's
Water Quality Flag Ceremony	18-May-16	Lisle	52	T, ST	St. Joan of Arc
Water Quality Flag Ceremony	20-May-16	Winfield	43	T, ST	Wheaton Christian Grammar
Water Quality Flag Ceremony	20-May-16	Carol Stream	56	T, ST	Roy De Shane E.S.
WSM	21-May-16	Elmhurst	60	ST	Elmhurst Academy
Sustainable Design Challenge Award Ceremony	23-May-16	Lombard	15	T, ST	Glenbard East H.S.
DVD Loan - Down The Drain	25-May-16	Naperville	20	ST	Fry E.S.
Water Quality Flag Ceremony	28-May-16	Glendale Heights	750	T, ST	Marquardt M.S.
Living Water Workshop	13-Jun-16	DuPage County	14	T	City of Aurora
Living Water Workshop	14-Jun-16	DuPage County	14	T	SCARCE
Living Water Workshop	15-Jun-16	DuPage County	14	T	SCARCE
Living Water Workshop	16-Jun-16	DuPage County	14	T	SCARCE
Living Water Workshop	17-Jun-16	DuPage County	14	T	SCARCE
Water Quality Flag, PP	20-Jun-16	Wheaton	1	T	DuPage Co. Fairgrounds

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Living Water Workshop	22-Jun-16	DuPage County	14	T	Girl Scouts of America
NP	8-Aug-16		2	T	Fellowes
Water Quality Flag, Summer Workshops	12-Aug-16	Darien	1	T	Cantigny
Water Quality Flag	15-Aug-16	Darien	2	T	Cass Jr. High
Rx, LP, AB, GC, SDC	25-Aug-16	Lombard	3	T, ST	Calvary Episcopal Church
SDC	25-Aug-16	Lombard	3	T	College Preparatory School of America
Q&Q, RX, COO< GC, AB, Coal Tar	9/13/2016	Lombard	18	TW	Wheaton Public Library
Q&Q, Water Quality Flag, RB, LP, Coal Tar, SWM, BMP, RX, AB, NP, GR, PP, WS, Water Conservation, HHW, COO, Cooking Oil	9/14/2016	Hanover Park	53	T	College of DuPage
Q&Q, Water Quality Flag, GC, AB, LP, RX, RB, NP, GR, PP, COO, COW,	9/14/2016	Aurora	28	T	Springwood MS
WS, LP, AB, GR, BS, SWM, HHW, Q&Q, GR, GC, COO, PHOS, NP, RB, PP, GB	9/15/2016	Glen Ellyn	10	TW	Glendale Heights Senior Center
RB, NP, WQF, COO	9/16/2016	Downers Grove	1	T	SCARCE (for DuPage County teachers)
HHW, RX, Cooking Oil	9/21/2016	West Chicago	75	ST, CB	Bloomington Garden Club
WS	9/28/2016	Elmhurst	21	T	Bloomington Public Library staff
COO, Nutrient Load, RX, RE, AB, LP, GB, PP, GR	9/30/2016	West Chicago	64	ST, T	Hawthorne

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					Elementar y
WQF, GC, LP, RE, Q&Q, COO, PHOS, WS, Nutrients, NP	10/3/2016	Downers Grove	9	T	Benjamin Middle School
RB, HHW, LP	10/5/2016	Elmhurst	24	Y	College of DuPage
WQF, RB, NP, PP, BMP, Q&Q, GR, BS, RX, COO, WS, LP, Water Conservation	10/6/2016	Wheaton	62	T	First Presbyterian Church
Q&Q, COO, GC, AB	10/7/2016	Darien	26	T	Carol Stream Organic Garden Club
RB, NP, COO	10/12/2016	Lombard	30	ST	Cass Jr. High
HHW, NP, Q&Q, COO, GC, LP, RE	10/13/2016	Lombard	1	T	Dreisilker Electric Motors, Inc
WSM	10/13/2016	Lombard	132	T	College Preparatory School of America
Green Cleaning, ,Commercial Composting	10/18/2016	Naperville	18	T	Glenbard East High School
Comopsting: outdoor, worms, commercial	10/20/2016	Itasca	18	T	District 204 Food Service Committee
HHW, RX, LP, Cooking Oil	10/25/2016	Naperville	78	ST	SCARCE Green Fair
COR, RX, HHW	10/28/2016	Carol Stream	50	ST	Wheaton Park District
Living Water Graduate workshop scheduling & prep	11/1/2016	Glen Ellyn	1	TW	Roy DeShane Elementary
Water Dynamics Workshop Scheduling & Prep	11/2/2016	Glen Ellyn	1	TW	SCARCE

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RX, COO, COW, COC	11/2/2016	Villa Park	19	T	SCARCE
HHW, Q&Q, RX, COR	11/3/2016	West Chicago	90	ST	Village of Bartlett
WS	11/7/2016	Lisle	73	T, ST	SCARCE
RB, HHW, Q&Q, RX, COO, COW, LP	11/10/2016	Glen Ellyn	16	Y	West Chicago Environmental Commission
HHW, RX, Compost: backyard, worms, curbside;	11/12/2016	Downers Grove	19	Y	Glen Ellyn Library
Oil Spill Clean-Up kit, Q&Q, HHW, BMP	11/14/2016	Downers Grove	62	T, ST	Hillcrest Elementary Girl Scout Troop # 55105
WS	11/16/2016	Downers Grove	71	T, ST	First United Methodist Church
WS, RB, NP, PP, GB, BMP, SWM, HHW, GR, LP, COR	11/17/2017	Oak Brook		ST	Downers Grove South High School
RB, NP, PP, GB, SWM, Q&Q, BS, COO, COW, COC, PHOS, WS, SDC, RE, GWFM, NL	11/21/2016	Lombard	1	T	Forest Preserve District of DuPage County
PP, SWM, HHW, Q&Q, GR, BS, COW, WS, LP	11/28/2016	Downers Grove	12	Y	Barnes & Noble
WSM	12/2/2016	Elmhurst	1	T, ST	Presentati on (Field E.S.)
WSM	12/5/2016	Elmhurst	1	T, ST	Presentati on (Emerson E. S.)
WSM Loan	12/9/2016	Downers Grove	2	T	Host (Downers Grove)

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					North H.S.)
WSM	12/12/2016	Wood Dale	5	T, ST	Host (Wood Dale Junior High)
Rain barrels, NP, Safe Lawn Habits	1/9/2017	Wheaton	1	School	Host (Regional Office of Education)
SWM, BMP, Q&Q, Rx, COC, COO, COR, LP	1/24/2017	Downers Grove	4	T, ST	Host (O'Neill)
SWM, BMP, Q&Q, Rx, COC, COO, COR, LP	1/25/2017	Downers Grove	3	T, ST	Host (O'Neill)
NP, PP, SWM, BMP, Rx, Q&Q, GR, BS, COC, COO, PHOS, LP, Ab, WQF	1/26/2017	Glen Ellyn	4	T	Host (SCARCE)
WSM Loan & Training	2/2/2017	Elmhurst	1	T	Host (York H.S.)
Q&Q, Stream Clean-up	2/6/2017	Villa Park	18	T	Host (SD 45 Conservation Committee)
Q&Q	2/9/2017	Lombard	5	ST	Host (Glenbard East H.S.)
NP, RB, SWM, BMP, Q&Q, GC, COR, LP, AB	2/15/2017	Wheaton	42	T	Host (Madison E.S.)
NP, Q&Q, BMP, Rb	2/17/2017	West Chicago	1	School	Host (Norton Creek E.S.)
NP, Q&Q, BMP, RB	2/24/2017	West Chicago	1	School	Host (North Creek E.S.)
Planning Student Field Trip, Elmhurst Quarry, SWM, BMP	2/27/2017	Darien	1	T	Host (Eisenhower Jr. High)
TOTAL STUDENTS		3035			
<p>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</p>					

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Challenge, GC- Green Cleaning, LP- Litter Prevention, AB- Anti Bacterial Soap, ER- Electronic Recycling, WL- Wetland, WQF - Water Quality Flag

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Type of Group - B - Business, CB - Community Booth, CE - Community Event, COL - College, COM - Community Group, GOV - Government, ST - Student, T - Teachers, TW - Teacher Workshop, Y - Youth

Section B:**Public Participation/ Involvement****B3. Stakeholder Meeting****Goal:**

Organize or serve as a principal participant in a stakeholder meeting that addresses matters pertaining to pollutant reduction on a watershed level.

Milestone (Year 1):

Hold 6 watershed stakeholder meetings per year.

Status:

DuPage County staff held 6 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
Salt Creek Workshop	8-Mar-16	Addison	40	Education & Outreach	Host, Speaker
East Branch DuPage River Workshop	13-Apr-16	Downers Grove	45	Education & Outreach	Host, Speaker
West Branch DuPage River Tour	28-Apr-16	Multiple	40	Education & Outreach	Host, Speaker
West Branch DuPage River Watershed Green Workshop	5-Oct-16	Naperville	40	Education & Outreach	Host, Speaker
Salt Creek Watershed Green Workshop	26-Oct-16	Addison	40	Education & Outreach	Host, Speaker
East Branch DuPage River Watershed Green Workshop	16-Nov-16	Downers Grove	40	Education & Outreach	Host, Speaker

B4. Public Hearing**Goal:**

Conduct a meeting for the public to provide input as to the adequacy of the established Stormwater Management Program.

Milestone (Year 1):

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 7:30am. 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 following meetings were held during the reporting year:

- March 1, 2016
- April 5, 2016
- May 3, 2016
- June 7, 2016
- July 5, 2016- Cancelled
- August 2, 2016
- September 6, 2016
- October 4, 2016
- November 1, 2016
- December 6, 2016
- January 3, 2017
- February 7, 2017

B6. Program Involvement**Goal:**

Conduct assessments to gauge citizen and partner views, behaviors, and concerns pertaining to a variety of topics, including water quality, property management, and residential pollutant control.

Milestone (Year 1):

Develop and disburse 1 assessment per year.

Status:

Surveys were distributed to attendees of the following events:

- Green Infrastructure Design & Maintenance for MS4 Communities
- Green Infrastructure & Grants workshop

DuPage County staff created 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/>

B7. Other Public Involvement

Goal:

Host events, such as Adopt-a-Stream, River Sweep, and Storm Drain Stenciling, where residents are engaged in reducing the transport of pollutant from waterways within DuPage County.

Milestone (Year 1):

Involve at least 400 participants in public events per year.

Status:

DuPage County has continued to support public involvement programs to engage residents in reducing the transport of pollutants from waterways within DuPage County.

Adopt-A-Stream

Adopt-A-Stream was initiated by DuPage County Stormwater Management in 1995. The program encourages citizen-based stewardship of the County's water resources to keep them healthy, clean and attractive. It supports the belief that everyone can make a difference in the aquatic habitats and general appeal of the County's waterways. Since The Conservation Foundation (TCF) started administering the program, it has grown from 5 participants to 36 groups or individuals. Last year, four of the groups have qualified for signs because they have been cleaning their river or stream sections for two years, at least two times per year. This year another four groups are qualified for signs. This year we had 256 volunteers remove 2,816 lbs of trash from the rivers and streams.

Our kickoff workshop was held on September 15, 2016 at the Forest Preserve District of DuPage County's Urban Stream Research Center. There were 15 people registered for the event and one of them adopted a stream section along the West Branch.

2016 Adopt-A-Stream Statistics

- Number of Volunteer Groups: 37
- Number of Volunteers: 256
- Number of bags of trash: 386
- Estimated pounds of trash: 2,816 lbs.

Conservation @ Home and 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 storm water and provides them with the resources they can use to improve water quality on their properties. Staff conducts evaluations and certifications of residential properties, school campuses and business properties throughout the county. The Conservation Foundation also provides information and resources for planting and maintaining certified properties and promotes the program through presentations and partnerships. Twenty (20) homes were certified this year. Another 40 homes are in progress sites for certification in the Conservation @ Home program. This year York High School was certified. We are currently working with Edward Hospital to get their campuses ready for certification.

In conjunction with the Conservation @ Home program, the rain barrel program has been very successful. Nine hundred (900) rain barrels have been distributed throughout the county. The rain barrel programs and promotions are occurring in the following DuPage County communities: Addison, Carol Stream, Glen Ellyn, Elmhurst, Villa Park, Lombard, Downers Grove, Warrenville, Wheaton, West Chicago, Naperville, Aurora, Roselle, Lisle, Westmont and Woodridge. There is a county-wide link for DuPage residents to purchase rain barrels. Residents have the option to pick-up their rain barrel or they can have it delivered. There is also a video instructing homeowners on how to install a rain barrel connection on the TCF website.

2016-17 Storm Drain Stenciling

DuPage County supported the Storm Drain Stenciling Program through The Conservation Foundation throughout DuPage County, including townships, municipalities, scouting groups and ecology clubs, to help educate residents about nonpoint-source pollution from stormwater runoff.

There were two school groups, an Eagle Scout, a scout group and a 4-H club involved in the storm drain program. This year we had 69 volunteers participating in the Storm Drain Stenciling program.

Volunteer Statistics

- Number of Participants: 116 (including elementary schools, boy scouts, eagle scouts, residents, and the Village of Westmont)
- Number of door hangers posted: 276
- Number of drains stenciled: 454
- Communities Stenciled: Hanover Park, Lisle, Naperville, Warrenville, Wheaton, Westmont
- Communities continuing permanent drain covers: Addison, Bloomingdale Township, Bolingbrook, Elmhurst, Lisle, Warrenville, Westmont Wheaton

2016 River Sweep

This past year was the 25th anniversary of the River Sweep since its inception in 1991. Since then there have been more than 11,700 volunteers that have removed approximately 261 tons of debris. This year more than 9 tons of debris was collected and 3.75 acres of land were restored to native habitat by over 800 volunteers. TCF staff promoted and coordinated the DuPage County River Sweep by encouraging municipal, park district and township coordination of local clean-up areas and volunteer recruitment. Restoration activities at selected sites were facilitated through coordination with the Forest Preserve District of DuPage County. The purpose of the event is to encourage volunteers to "sweep" our rivers clean. In addition to completing the clean-up, volunteers were able to complete 3.75 acres of restoration by removing buckthorn, honeysuckle and garlic mustard. The program brochure, a reduced poster sample and a press release is included with this report.

2016 DuPage River Sweep

Date of Event: May 20, 2017

Number of Participants: 893 volunteers

Area Covered: Approx. 97 miles

Tons of Litter Removed: Approximately 6.6 tons

- West Branch -70.66 miles
 - Carol Steam - 47.36 miles
 - Naperville - Downtown Riverwalk, Edgewater, Pioneer
 - Park Dorothy Weigand Park - 4.02 miles
 - Naperville-McDowell Grove FP - 1.03 miles
 - Naperville-Springbrook - 1 mile
 - Warrenville, St. Charles Rd. to Blackwell - 12 miles
 - Warrenville-Kleinwachter - 1 mile
 - Wheaton-Winfield Mound - 1.75 miles
 - Winfield- 1.5 miles
- East Branch/ Salt Creek -26.01 miles
 - Addison - Salt Creek - 3 miles
 - Bolingbrook, Hidden Lake - 3.5 miles
 - Darien-Ward's Creek -.5 miles
 - Downers Grove - Maple Grove F.P. - .56 miles
 - Glen Ellyn - Churchill Woods - 1.15 miles
 - Itasca, Springbrook Creek - 4 miles
 - Lisle, Community Park, Hitchcock Woods - 1.65 miles
 - Lisle, Morton Arboretum/Hidden Lake - 2 miles
 - Lombard - 2 miles
 - Oak Brook - 5 miles
 - Wood Ridge-Greene Valley - 2.65 miles

Section C:**Illicit Discharge Detection and Elimination****C1. Storm Sewer Map Preparation****Goal:**

Collect and compile, from a variety of sources, storm sewer maps. These maps identify the locations of storm sewer outfalls discharging into the Waters of the State. The desired end product is one comprehensive, countywide storm sewer atlas.

Milestone (Year 1):

Complete the storm sewer atlas for 50% 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:

Agency	Date
DuPage County Public Works	3-14-16
Naperville Township	3-29-16
Lisle Township	3-29-16
Milton Township	4-4-16
Village of Downers Grove	4-4-16
Village of Addison	4-20-16
Village of Itasca	4-28-16
York Township	4-28-16
Wayne Township	4-28-16
Village of Wooddale	5-3-16
Village of Glen Ellyn	5-27-16

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Addison Township	6-10-16
Village of Woodridge	7-14-16
Village of Bensenville	5-10-17
Village of Hanover Park	5-16-17

During the 2016-2017 reporting year, DuPage County Stormwater began the process to combine all storm sewer data for the county into one comprehensive GIS database. Currently each agencies data is in a separate shapefile. Combining this data into one comprehensive layer will simplify tracing and spill response within DuPage County.

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 1):

Complete steps 1 & 2 in the prioritization process.

Status:**Step 1- Define IDDE waterway segments**

DuPage County Stormwater Department has three full time staff members who provide GIS mapping support and services for all aspects of watershed planning and management. Comprehensive stream data has been delineated and mapped for all DuPage County streams. DuPage County has six watershed planning areas including: Salt Creek, East Branch of the DuPage River, West Branch of the DuPage River, Sawmill Creek, Des Plaines River Tributaries, and the Fox River Tributaries. The major watersheds, which include Salt Creek, East Branch DuPage River, and West Branch DuPage River, are first divided into subwatersheds. Each larger watershed contains between 10 and 20 subwatersheds. These subwatersheds have been further divided into segments of varying length. The mainstem of each tributary is typically one segments as is each tributary to the subwatershed. These reaches will be used for the outfall inspection prioritization process.

Step 2- Delineate Subbasins

Each of the six watershed planning areas in DuPage County (Salt Creek, East Branch of the DuPage River, West Branch of the DuPage River, Sawmill Creek, Des Plaines River Tributaries, and the Fox River Tributaries) have been further divided into catchments. These catchments have been established and are currently used for hydraulic modeling purposes. Catchment boundaries are created using site topography, the countywide storm sewer atlas, and schematic data such as bridges, road crossings, and representation of the stream system. These same catchment areas are also being used for outfall prioritization.

C5. Illicit Source Removal Procedures**Goal:**

Distribute educational materials pertaining to illicit discharges to DuPage County residents and businesses. DuPage County maintains an Illicit Discharge Detection and Elimination Hotline, where interested parties are able to report suspect discharges from the storm sewer system into waterways located within DuPage County. Often, these reported discharges originate from an individual or business that is unaware of the implications of their activities.

Milestone (Year 1):

Distribute 10 letters, flyers, posters, brochures, or other public education tools.

Status:

County staff has created over 20 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/

C7. Visual Dry Weather Screening

Goal:

Perform the visual screening of MS4 outfalls discharging to Waters of the State during dry-weather conditions.

Milestone (Year 1):

Inspect 10 percent of known outfalls.

Status:

During this reporting period, each of the 591 MS4 outfalls within the Salt Creek Watershed were visually inspected for illicit discharges. An additional 37 MS4 outfalls were visually inspected in Black Partridge, Willow Creek, Bensenville Ditch, and the West Branch DuPage River. Based on the results of the visual testing, field chemical tests were performed on 16 outfalls.

In addition, DuPage County staff recently began utilizing 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 is also being 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.

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 1):

Chemically monitor 50% of outfalls releasing a suspected illicit discharge.

Status:

During routine monitoring of outfalls within the Salt Creek watershed, 124 outfalls were found to be flowing during dry weather periods (over 72 hours without rainfall over 0.1 inch). Most of the flowing outfalls had not observable indication of illicit discharges, such as color, odor, turbidity or floatables.

Outfall	Inspection Date	Submerged	Discharge	Color	Odor	Turbidity	Floatables
8274532-0645247	9/2/2016	No	Moderate	Clear	None	None	None
9329146-0801312	11/18/2016	Partially	Moderate	Clear			
9329128-0801359	11/18/2016	Partially	Substantial	Clear			
8452684-0238885	2/17/2017	No	Substantial	Clear	None	None	None
9153816-0936849	2/17/2017	No	Moderate				
9156717-0956027	2/17/2017	No	Trickle				
9162630-0889295	2/20/2017	No	Moderate	Brown		Cloudy	
8931440-0753690	6/8/2016	Partially	Trickle	Clear	None	None	None
8929423-0750534	6/8/2016	No	Trickle	Clear	None	None	Algae
8932990-0759859	6/8/2016	Partially	Moderate	Clear	None	None	None
8935812-0769939	6/8/2016	No	Moderate	Clear	None	None	None
8935966-0769955	6/8/2016	Partially	Moderate	Clear	None	None	None
8936523-0772150	6/8/2016	No	Trickle	Clear	None	None	None
8940044-0810193	6/8/2016	No	Trickle	Clear	None	None	None
8946456-0819413	6/8/2016	No	Trickle	Clear	None	None	None
8949617-0822488	6/8/2016	No	Trickle	Clear	None	None	None
8949782-0822402	6/8/2016	No	Trickle	Clear	None	None	None
8962577-0835031	6/8/2016	No	Moderate				
8962457-0835622	6/8/2016	No	Moderate				
8957276-0828532	6/8/2016	No	Substantial				
8957147-0828285	6/8/2016	No	Moderate				
9386786-0690817	6/30/2016	No	Moderate	Clear	None	None	None

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9375732-0706033	6/30/2016	Partially	Trickle	Clear	None	None	None
9316281-0695290	6/30/2016	No	Moderate	Clear	None		None
9375719-0706071	6/30/2016		Moderate	Clear	None	None	None
9320667-0709062	6/30/2016	Partially	Trickle	Clear	None	None	None
9322028-0712663	6/30/2016	Partially	Moderate	Clear	None	None	None
9381474-0700754	7/1/2016	No	Trickle	Clear	None	None	
9381926-0699669	7/1/2016	Fully	Substantial				
9244507-0671959	7/11/2016	No	Trickle	Clear	None	None	None
9245298-0672827	7/11/2016	No	Trickle	Clear	None	Slight	Suds
9395338-0730804	7/12/2016	No	Trickle	Clear	None	None	None
9397176-0732700	7/12/2016	No	Trickle	Clear	None	None	None
9399852-0736269	7/12/2016	No	Trickle	Clear	None	None	Other
9380456-0687207	7/28/2016	No	Moderate	Clear	None	None	None
9382488-0570000	7/28/2016	No	Trickle	Clear	None	None	None
9391291-0574168	7/28/2016	No	Moderate	Clear	None	None	
9382229-0566671	8/2/2016	No	Moderate	Clear	None	None	None
9372666-0558473	8/2/2016	Partially	Trickle	Clear	None	None	None
9374674-0541229	8/2/2016	No	Trickle	Clear	None	None	None
9392084-0531542	8/2/2016	No	Moderate	Clear	None	None	None
9353054-0528542	8/2/2016	Partially	Trickle	Clear	None	None	None
9345163-0528355	8/2/2016	No	Trickle	Clear	None	None	None
9344894-0528353	8/2/2016	No	Moderate	Clear	None	None	None
9361971-0519562	8/2/2016	No	Trickle	Clear	None	None	None
9372541-0497720	8/2/2016		Moderate	Clear	None		
9361183-0506419	8/2/2016	No	Moderate	Clear	None		
9361293-0508852	8/2/2016		Moderate	Clear			
9360909-0510763	8/2/2016	No	Moderate	Clear	None		
8879405-0779483	8/3/2016	Partially	Moderate				
8894896-0886717	8/3/2016	Partially	Substantial				
8739987-0889947	8/3/2016	No	Substantial				
9047697-0846380	8/4/2016	No	Trickle				
9030311-0847626	8/4/2016	No	Trickle				
9028281-0847798	8/4/2016	No	Trickle				
9012891-0860823	8/4/2016	No	Trickle				
8996907-0863067	8/4/2016	No	Moderate				
8988479-0864175	8/4/2016	No	Moderate				
9311621-0568572	8/10/2016	No	Trickle	Clear	None	None	None
9325004-0531416	8/10/2016	No	Trickle	Clear	None	None	None
9319840-0536793	8/10/2016	No	Trickle				
9313629-0531647	8/10/2016	No	Trickle				
9307369-0509368	8/10/2016	No	Trickle	Clear	None	None	None

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9281331-0519223	8/10/2016	Partially	Substantial	Clear			
9259783-0608567	8/10/2016	Partially	Trickle				
9182458-0687233	9/2/2016		Moderate	Clear	None	None	
9200051-0697073	9/2/2016	Partially	Moderate	Clear	None	Slight	None
9199186-0711412	9/2/2016	Partially	Trickle	Green	None	Slight	Other
9193898-0713761	9/2/2016	Partially	Moderate	Clear		None	None
9191075-0700564	9/2/2016	Partially	Trickle	Clear	None	None	None
8763578-0874340	9/2/2016	No	Trickle	Clear	None	None	None
8762611-0877635	9/2/2016	No	Trickle	Clear	None	None	None
9265297-0680390	9/13/2016	No	Trickle	Clear	None	None	Algae
9196630-0842123	9/13/2016	No	Trickle	Clear	None	None	None
9228386-0713335	9/13/2016	No	Moderate	Clear	None	None	None
9237215-0949382	9/13/2016	No	Trickle				
9196224-0754175	9/13/2016	No	Trickle	Clear	None	None	None
9196596-0753756	9/13/2016	No	Trickle	Clear	None	None	None
9193386-0747165	9/13/2016	No	Trickle	Clear	None	None	None
8764000-0868415	9/15/2016		Moderate	Clear	None		None
8943173-0877737	9/20/2016	No	Trickle	Clear	None	None	None
8975176-0864373	9/20/2016	No	Trickle				
8936284-0883776	9/20/2016	No	Moderate	Clear	None	None	None
8892704-0926264	9/27/2016	No	Trickle	Clear	None	None	None
8887405-0901625	9/27/2016	No	Substantial	Clear	None	None	None
8841573-0748481	10/5/2016	No	Substantial	Clear	None	None	None
9262391-0781223	10/11/2016	Partially	Trickle	Clear	None		
9264766-0780102	10/11/2016	No	Trickle				
9300916-0789307	10/12/2016	No	Substantial	Clear	None		
9322619-0779742	10/21/2016	Partially	Moderate	Clear			
9324146-0769858	10/21/2016	No	Trickle				
9331679-0768580	10/21/2016	Partially	Moderate	Green	None	Cloudy	
9340094-0772149	10/21/2016	Fully	Moderate	Orange	Sulfide	Slight	
8771842-0828061	10/24/2016	No	Trickle	Clear	None	None	Algae
8793365-0847350	10/24/2016	No	Moderate	Clear	None	None	None
8825155-0893136	10/24/2016	No	Moderate	Clear	None	None	None
9100723-0830193	11/7/2016	No	Moderate	Clear	None	None	None
9100777-0830228	11/7/2016	No	Moderate	Clear	None	None	None
9100806-0830169	11/7/2016	No	Trickle	Clear	None	None	None
9129133-0823380	11/7/2016	No	Trickle	Clear	None	None	None
9133014-0825270	11/7/2016	Partially	Trickle				
9114682-0836341	11/7/2016	Partially	Moderate	Other	Fuel	Slight	Oil
8912282-0887748	11/8/2016	No	Trickle	Clear	None	None	None
8896394-0907880	11/8/2016	No	Trickle				

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9121381-0712049	11/9/2016	No	Moderate	Clear	None	None	None
9370495-0774499	11/18/2016	No	Trickle	Clear	None	None	None
9381775-0776925	11/18/2016	No	Moderate	Clear	None	None	None
9210900-0921742	11/18/2016	Partially	Trickle	Clear	Sulfide		
9306712-0778789	12/2/2016	Partially	Trickle	Clear	None	None	None
9193898-0713761	2/1/2017	Partially	Moderate	Clear	None		
9265297-0680390	2/1/2017	No	Trickle	Clear	None		
9193386-0747165	2/1/2017	Partially	Trickle	Clear	None	Slight	
8739987-0889947	2/16/2017	No	Moderate	Clear	None	None	None
8762611-0877635	2/16/2017	No	Trickle	Clear	None	None	None
8763578-0874340	2/16/2017	No	Trickle	Clear	None	Cloudy	Other
8771842-0828061	2/16/2017	No	Trickle	Clear	None	Slight	Algae
8793365-0847350	2/16/2017	No	Trickle	Clear	None	None	None
8825155-0893136	2/16/2017	No	Moderate	Clear	None	None	None
9381775-0776925	2/17/2017		Trickle	Clear			
9370495-0774499	2/17/2017	No	Trickle	Clear	None	None	None
9381775-0776925	2/17/2017	Fully	Moderate	Clear	None	None	None
9324146-0769858	2/17/2017	No	Trickle	Clear	None	None	None
9340094-0772149	2/17/2017	Fully	Moderate	Orange	None	None	None
9196630-0842123	2/17/2017	No	Trickle	Clear	None	None	None

Of the flowing outfalls, the following were sampled for the presence of pollutants and illicit discharges:

Outfall	Inspection Date	Discharge	Color	Odor	Turbidity	Floatables	pH (S U)	Temperature (°C)	Specific Conductance (uS/cm)	Ammonia (mg/L)	Surfactants (mg/L)	Fluoride (mg/L)
8274532-0645247	9/2/2016	Moderate	Clear	None	None	None	7	22.4	494.5	na	0.25	na
8274532-0645247	10/19/2016	na	Clear	None	None	None	na	na	na	0	0.1	0
9193898-0713761	2/1/2017	Moderate	Clear	None	na	na	na	na	na	na	0.25	0
9265297-0680390	2/1/2017	Trickle	Clear	None	na	na	na	na	na	na	0.25	0
9228386-0713335	2/1/2017	na	na	na	na	na	na	na	na	na	0.25	0.3
9193386-	2/1/2017	Trickle	Clear	None	Slight	na	na	na	na	na	0.5	0.3

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0747165													
8739987-0889947	2/16/2017	Moderate	Clear	None	None	None	7	na	na	na	0.25	0	
8763578-0874340	2/16/2017	Trickle	Clear	None	Cloudy	Other	6.5	na	na	na	0.25	0	
8771842-0828061	2/16/2017	Trickle	Clear	None	Slight	Algae	6	na	na	na	0.25	0	
8793365-0847350	2/16/2017	Trickle	Clear	None	None	None	6.5	na	na	na	0.25	0	
8825155-0893136	2/16/2017	Moderate	Clear	None	None	None	6.5	na	na	na	0.25	0	
9193386-0747165	2/17/2017	na	Clear	None	None	None	na	na	na	0.1	0.5	na	
9262391-0781223	2/17/2017	na	Clear	None	na	None	6	na	na	na	0	0	
9370495-0774499	2/17/2017	Trickle	Clear	None	None	None	6	na	na	na	0.25	0	
9324146-0769858	2/17/2017	Trickle	Clear	None	None	None	6.5	na	na	na	0.25	0	
9196630-0842123	2/17/2017	Trickle	Clear	None	None	None	6.5	na	na	0.41	0.5	na	

Section D:**Construction Site Runoff Control****D4. Site Plan Review Procedures****Goal:**

Review construction permit submittals to identify opportunities for avoidance of impacts to channels, wetlands, and adjoining property and require all necessary erosion and sediment control plans.

Milestone (Year 1):

Review 100 construction permit submittals per year.

Status:

DuPage County Stormwater conducts reviews of permit applications for unincorporated DuPage County as well as several municipalities. During the reporting year, 180 reviews were conducted for Stormwater Permits, which contain wetlands, floodplain, over 2500 square feet of net new impervious area, or propose post-construction BMPs.

Total Number of Stormwater Permits reviewed	
Village of Addison	1
Village of Bartlett	3
Village of Bensenville	8
Village of Burr Ridge	3
Village of Clarendon Hills	1
City of Darien	9
Unincorporated DuPage Co.	87
Elk Grove Village	2
City of Elmhurst	2
Village of Glendale Heights	2
Village of Hanover Park	1
Village of Hinsdale	9
Village of Itasca	4
Village of Lisle	6
Village of Lombard	4
City of Naperville	3
Village of Roselle	2

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Village of Wayne	6
City of West Chicago	12
Village of Westmont	2
City of Wheaton	9
Village of Winfield	3
City of Wood Dale	1
Total Countywide	180

D6. Site Inspection/ Enforcement Procedures**Goal:**

Inspect, in unincorporated areas of DuPage County, to ensure that disturbed sites meet soil erosion and sediment control requirements outlined in the DuPage County Countywide Stormwater and Flood Plain Ordinance. The Ordinance mandates that all developments provide both temporary and permanent erosion and sediment control and those developments disturbing one acre or greater of land shall comply with the requirements of general permit ILR10.

Milestone (Year 1):

Forty percent enforcement actions initiated, versus the total number of inspections performed per year.

Status:

A total of 1396 sediment and erosion control inspections were conducted in unincorporated areas by DuPage County staff on development sites during the reporting year. An inspection is required prior to any excavation or movement of soil. Additionally, all erosion control measures indicated on the approved grading plans must be in place and maintained until final grading approval. A total of 44 enforcement cases were conducted during that time period, which is 3% of the total inspections conducted.

Section E:**Post- Construction Runoff Control****E2. Regulatory Control Program****Goal:**

Review of the regulatory framework established by the DuPage County Countywide Stormwater and Flood Plain Ordinance. Following review, the need for changes in the Ordinance text, performance of community audits, general certification adoption, or development of technical guidance may be recognized.

Milestone (Year 1):

Perform one regulatory activity.

Status:

- The DuPage County Countywide Stormwater and Flood Plain Ordinance (DCCSFPO) was reviewed in 2016 to determine if updates were needed in order to comply with the updated ILR40 permit. As the DCCSFPO is a countywide ordinance, the regulations apply to the entire county and all municipalities must be at least as stringent as the DCCSFPO. Staff is currently completing a review of the ILR40 and the DCCSFPO (last updated in 2013) to comply with additional requirements included with the 2016 revisions to the ILR40 permit (2016).

- DuPage County contracted with an engineering consultant to perform audits on 3 municipalities; the City of Elmhurst, the City of Darien, and the Village of Glendale Heights.

- A subgroup to the DuPage County Municipal Engineers group was created to provide technical assistance and guidance materials. This subgroup generated sample specifications for dry wells and rain gardens which can be provided to permit applications to be used as a template for the design of these practices on residential properties.

E3. Long Term O&M Procedures

Goal:

Maintain DuPage County 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.

Milestone (Year 1):

Maintain 55% of DuPage County owned properties that have been planted with native vegetation.

Status:

DuPage County Stormwater Management oversees the native vegetation management on all County-owned facilities and properties.

DuPage County owns a total of 38 properties throughout the county that have been planted with native vegetation and are managed as natural areas and naturalized stormwater facilities. In addition, there are 10 best management practices on the county campus that are planted with native vegetation. Over 100 inspections were conducted on these natural areas during the reporting year.

E4. Pre-Construction Review of BMP Designs**Goal:**

Certify, for permit approval, permit submittals. Approval is granted to submittals that are in compliance with the DuPage County Countywide Stormwater and Flood Plain Ordinance, which requires post-construction best management practices (PCBMPs) for all developments with a 2,500 square foot net increase in impervious surfaces.

Milestone (Year 1):

Certify 30% of permit submittals.

Status:

A total of 180 Stormwater Permits were submitted during the reporting year. Of these, a total of 63 permits which included post construction BMPs were approved by DuPage County during the reporting period, which constitutes 35%.

Total Number of Stormwater Permits Approved	
Village of Bartlett	1
Village of Bensenville	4
Village of Burr Ridge	2
Village of Clarendon Hills	1
City of Darien	2
Unincorporated DuPage Co.	40
Elk Grove Village	1
City of Elmhurst	1
Village of Glendale Heights	1
Village of Hanover Park	1
Village of Hinsdale	6
Village of Itasca	2
Village of Lisle	3
Village of Lombard	3
City of Naperville	1
Village of Roselle	1
Village of Wayne	2
City of West Chicago	6
Village of Westmont	1
City of Wheaton	6
Village of Winfield	1
Total Countywide	86

E6. Post-Construction Inspections**Goal:**

Conduct post-construction inspections at sites containing post-construction best management practices, wetland buffer, riparian enhancement, or wetland mitigation.

Milestone (Year 1):

Inspect 100 post-construction inspections per year.

Status:

Any development site that is proposed to be planted with native vegetation as part of the best management practice, wetland buffer, riparian enhancement, or wetland mitigation requirements for a Stormwater Management Permit is required to undergo an establishment period from 1 to 5 years, depending on the type of project and planting method. The permittee is required to conduct maintenance and monitoring of the planted native vegetation. Each site is inspected annually by county staff to ensure compliance. The following inspections were conducted by County staff during the reporting year:

Municipality	No. of Inspections	Sign Offs
Bartlett	1	
Bensenville	11	1
Burr Ridge	10	
Carol Stream		1
Clarendon Hills	1	
Darien	8	1
Elk Grove	2	
Elmhurst	8	3
Glendale Heights	3	
FPD	15	2
Hinsdale	2	
Itasca	6	
Lemont	2	
Lisle	11	2
Lombard	13	3
Naperville	26	4
Oakbrook Terrace	2	

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Roselle	3	
Unincorporated	63	15
Warrenville	3	1
Wayne	4	
West Chicago	22	7
Westmont	4	
Wheaton	10	3
Winfield	5	
Woodridge	1	1
Wayne Township	1	
Total	215	42

E7. Other Post-Construction Runoff Controls**Goal:**

Annual training in current green infrastructure or low impact design techniques.

Milestone (Year 1):

Train 80% of applicable employees and contractors involved in the management of public surfaces.

Status:

On November 30, 2016, DuPage County Stormwater Management held a Green Infrastructure Design and Maintenance seminar. The county hosted the seminar which was free of charge to provide an opportunity for municipalities to receive training in Green Infrastructure in accordance with the annual training requirements of the ILR40. The following municipalities were in attendance. Additionally, the seminar was recorded and a video link was provided to all attendees to share with new and seasonal employees as well as employees who were not able to attend in person:

Municipality	Registered Attendees
Addison	6
Bartlett	1
Batavia	2
Bensenville	2
Bloomingtondale	2
Bloomingtondale Township	1
Bolingbrook	1
Burr Ridge	1
Carol Stream	5
Darien	1
Downers Grove	1
Downers Grove Township	1
DuPage County	22
Elk Grove Village	1
Elmhurst	6
Glen Ellyn	4
Glendale Heights	3
Hanover Park	2
Lisle	2
Lisle Township	2

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Lombard	5
Milton Township	2
Naperville	1
Naperville Township	2
Oak Brook	2
Roselle	1
Villa Park	3
Warrenville	1
Wayne Township	2
West Chicago	5
Westmont	5
Wheaton	2
Willowbrook	1
Winfield	1
Winfield Township	2
Woodridge	2
York Township	1

Section F:**Pollution Prevention/ Good Housekeeping****F1. Employee Training Program****Goal:**

Send staff to training to learn procedures 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 system cleaning.

Milestone (Year 1):

25% of staff members attending training per year.

Status:

On September 27, 2016 DuPage County partnered with the DuPage River Salt Creek Workgroup in holding the 2016 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.

F2. Inspection and Maintenance Program**Goal:**

Follow established procedures to remove accumulated timber debris from stormwater facilities that have potential to cause a regional stormwater problem.

Milestone (Year 1):

Remove 200 cubic yards of timber debris from drainageways.

Status:

As shown in the table below, over 300 cubic yards of debris have been removed from DuPage County waterways during the reporting year.

Location	Date	Cubic Yards Debris Removed
Lindenwood Park	3/7/2016	50
Lindenwood Park	3/8/2016	80
Mack Rd. at West Branch DuPage River	May-16	145
East Branch Trib. #7	Jun-16	30
Total	March 1, 2016 to February 28, 2017	305

F3. Municipal Operations, Stormwater Control**Goal:**

Develop standard operating procedures and checklists for municipal operators to use to assess the need for pollution prevention measures for wash water, spills, leaks, debris, deicing materials, and other chemicals on their property.

Milestone (Year 1):

10 corrections made in response to assessments.

Status:

During the reporting year, DuPage County staff created a “Good Housekeeping” checklist to be utilized by county, municipal, and township staff in order to self-assess operations and procedures at each facility. The checklist will be updated regularly based on feedback from these agencies as well as to include any new requirements or best practices. The checklist can be found here:

https://www.dupageco.org/EDP/Stormwater_Management/Water_Quality/54206/

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 1):

Complete 1 watershed plan, or components thereof, approved by the Stormwater Management Planning Committee and County Board per year.

Status:

During the reporting year, DuPage County staff has been working to complete 5 water quality based watershed plans. These plans were funded in part by an IEPA 319 grant for Development of Watershed Plans for Impaired Waterways. The watersheds that are being studied include: St. Joseph Creek, Winfield Creek, Sawmill Creek, Kress Creek, and Klein Creek. Drafts of all 5 watershed plans have been completed and submitted to the IEPA for review.

DuPage County has also partnered with the DuPage River Salt Creek Workgroup and the Chicago Metropolitan Agency for Planning on the Lower Salt Creek Watershed Plan, which is a Water Quality Based plan. Work continued during the reporting year to finalize the Watershed Resource Inventory and work began on the draft Watershed Plan.

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.

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

Watershed	Sampling Completed (year)	Sampling Scheduled (year)
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/projectidentification-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.

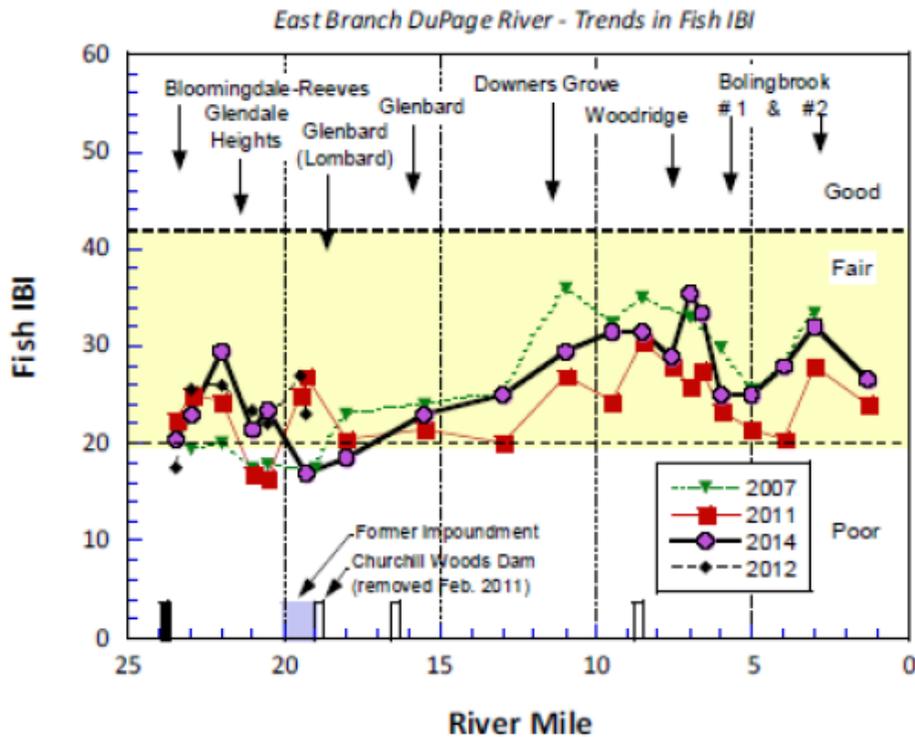
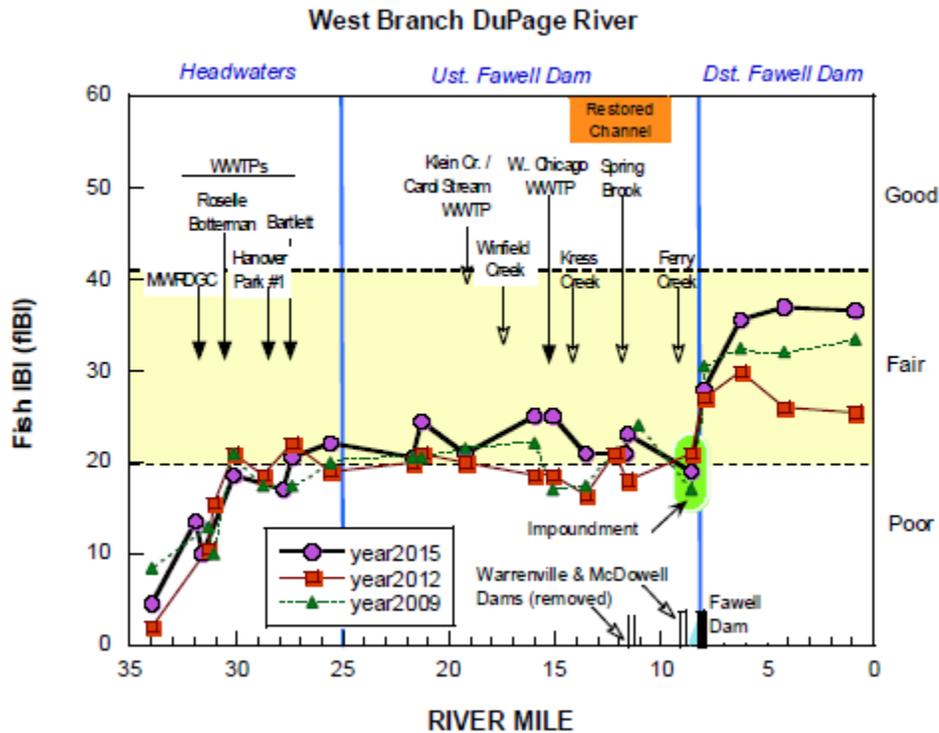


Figure 2. Fish IBI scores in the West Branch DuPage River, 2015, 2011-12 and 2007 in relation to municipal POTW dischargers. Bars along the x-axis depict mainstem dams or weirs (only black bars impede fish passage). The shaded area demarcates the “fair” narrative range.



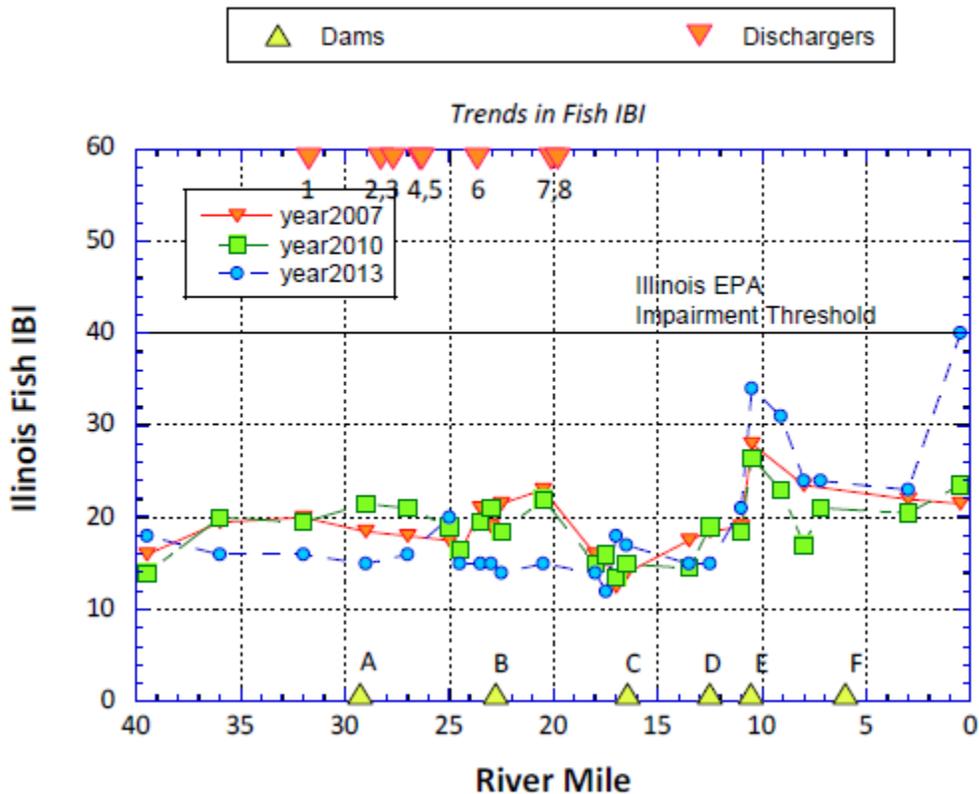
Salt Creek

With the exception of the site located at River Mile 0.5, fish assemblages sampled in Salt Creek were in poor to fair condition throughout the mainstem (Figure 3). In 2013, the site near the mouth of Salt Creek (river mile 0.5) was rated “good”. The increase in fish iBi is attributed to the removal of the Hoffman Dam on the main stem of the Des Plaines River in June 2012.

It should be noted that the Fullersburg Woods Dam (dam E on Figure 4) is a barrier to several fish species, notably johnny darters and hornyhead chubs, two species that should be found throughout most of the mainstem. The DRSCW in cooperation with DuPage County and Forest Preserve District of DuPage County plans to modify the Fullersburg Woods Dam to allow for fish passage. This project is expected to be completed by 2023.

Fish assemblage data from the 2016 Salt Creek bioassessment was not available at the time of the 2016-2017 MS4 Annual Report and will be included in the 2017-2018 MS4 Annual Report due on June 1, 2018.

Figure 3. Fish IBI scores in Salt Creek, 2013, 2010, and 2007 in relation to municipal POTW dischargers. Triangles along the x-axis depict mainstem dams or weirs. The back line demarcates the IEPA impairment threshold.



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 multihabitat 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

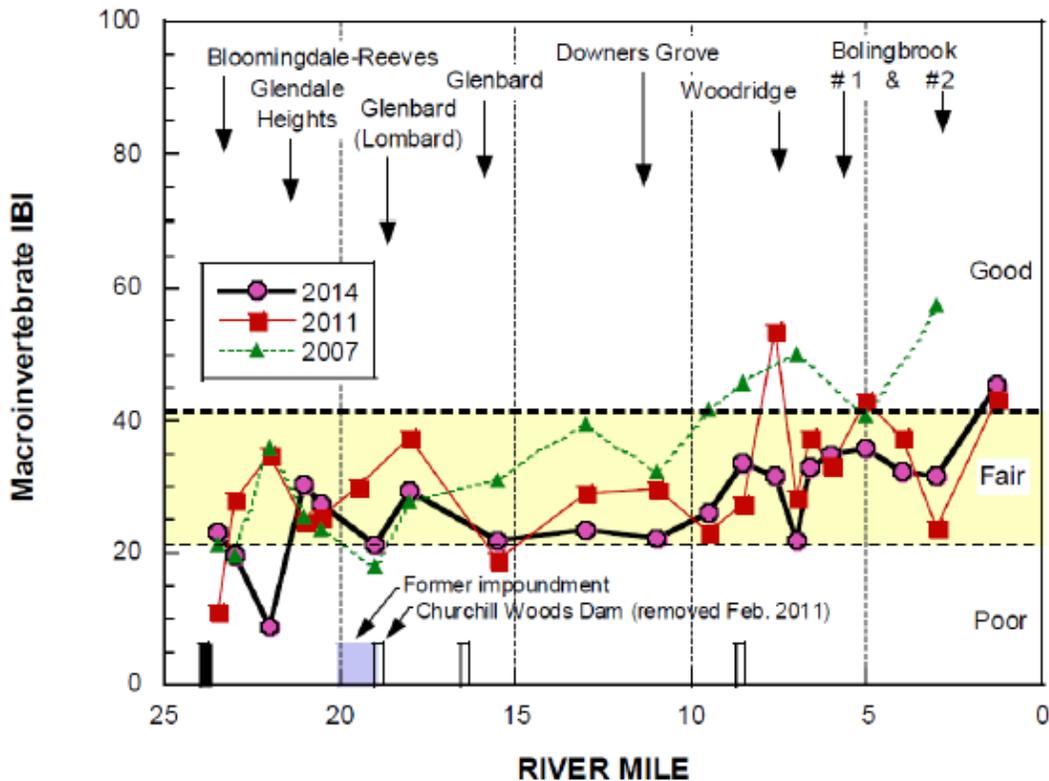
The macroinvertebrate sampling results presented in this report summarize the findings for the mainstem reaches of the East Branch DuPage River, the West Branch DuPage River and Salt

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.

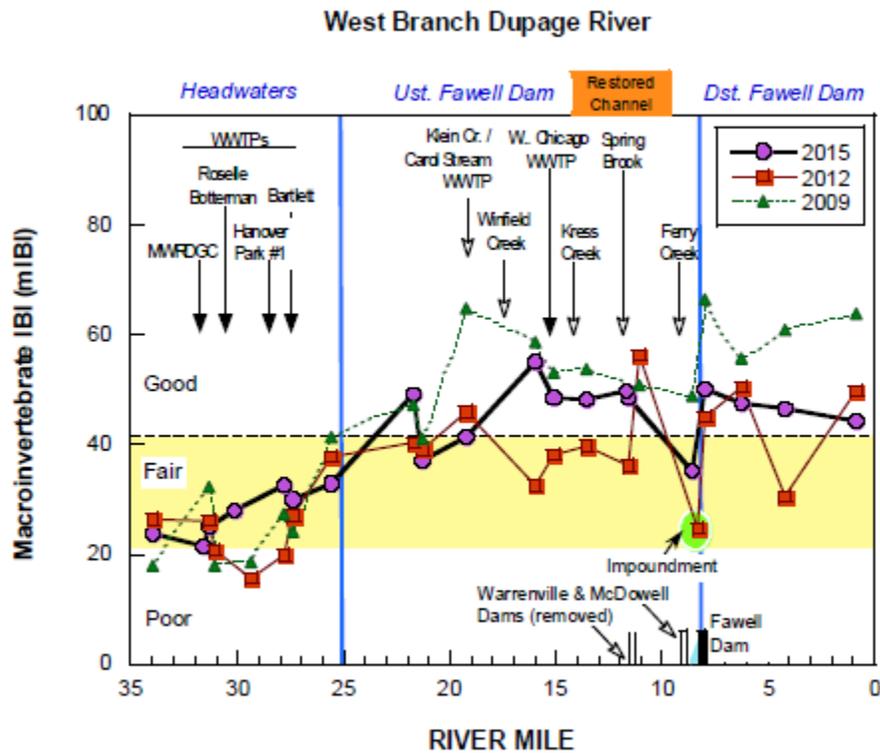


West Branch DuPage River

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.



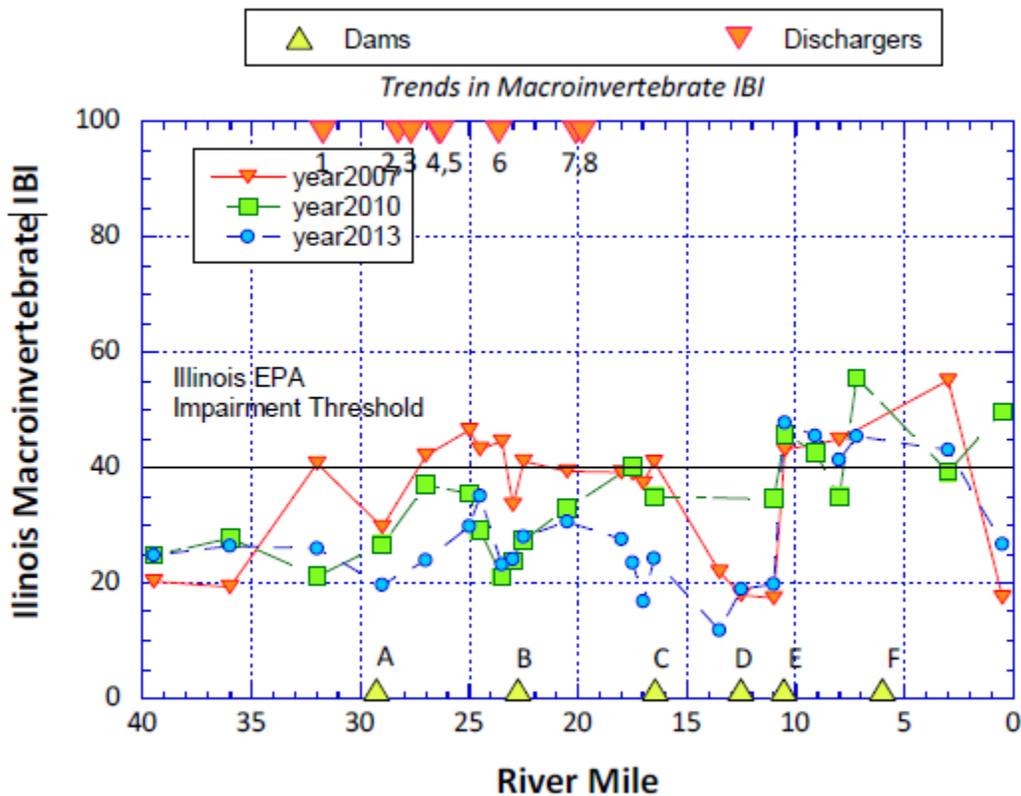
Salt Creek

In 2013, macroinvertebrate communities sampled from the mainstem of Salt Creek were rated as Fair upstream from the Fullersburg Woods Dam, and rated good at five of six sites sampled downstream from the dam, and Fair at the other site (Figure 6). Longitudinally, scores decreased downstream from Spring Brook relative to those upstream. The confluence with Spring Brook marks the reach where several POTWs discharge in short succession. Otherwise, no clear longitudinal pattern was evident.

In the 2016, the Oak Meadows Dam (dam B on Figure 4) was removed in a project sponsored by the Forest Preserve District of DuPage County, DuPage County Stormwater Management, and the DRSCW. Macroinvertebrate sampling to document the effects of this dam removal is scheduled for 2017.

Macroinvertebrate data from the 2016 Salt Creek bioassessment was not available at the time of the 2016-2017 MS4 Annual Report and will be included in the 2017-2018 MS4 Annual Report due on June 1, 2018.

Figure 6. Macroinvertebrate IBI scores in Salt Creek, 2013, 2010, and 2007 in relation to municipal POTW dischargers. Triangles along the x-axis depict mainstem dams or weirs. The back line demarcates the IEPA impairment threshold.



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/>.

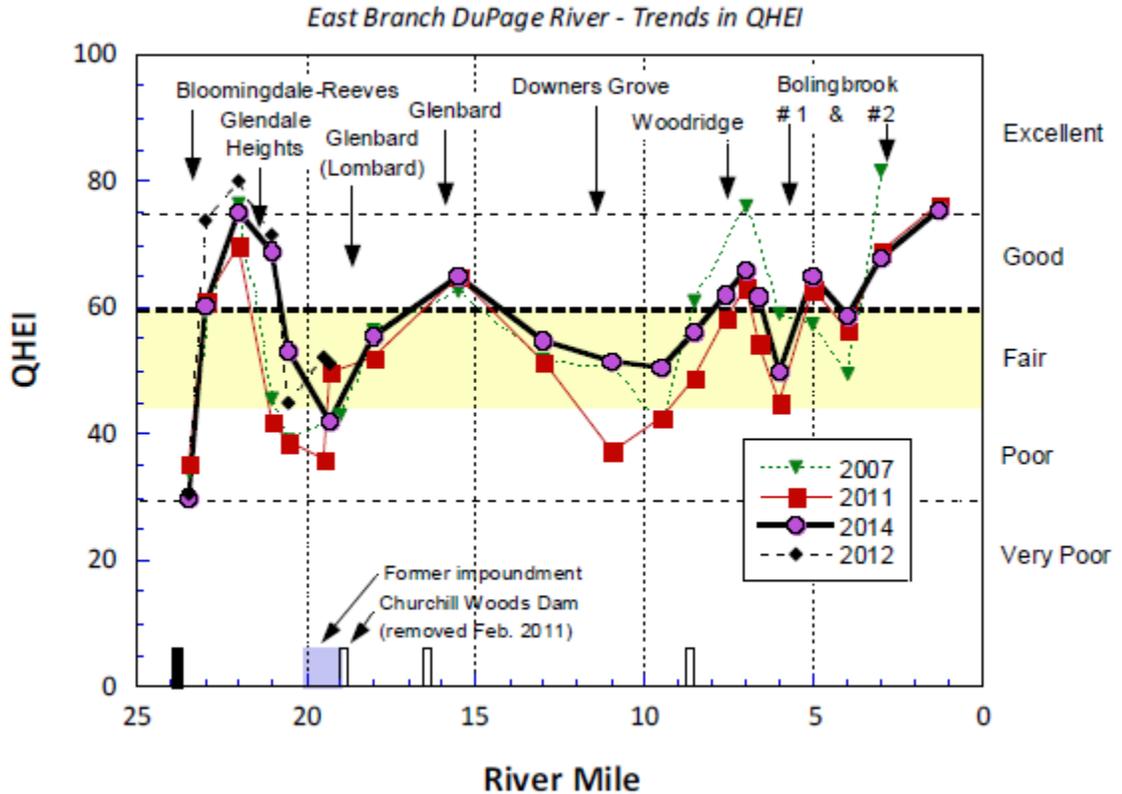
The physical habitat of a stream is a primary determinant of biological quality. Streams in the glaciated Midwest, left in their natural state, typically possess riffle-pool-run sequences, high sinuosity, and well-developed channels with deep pools, heterogeneous substrates and cover in the form of woody 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.

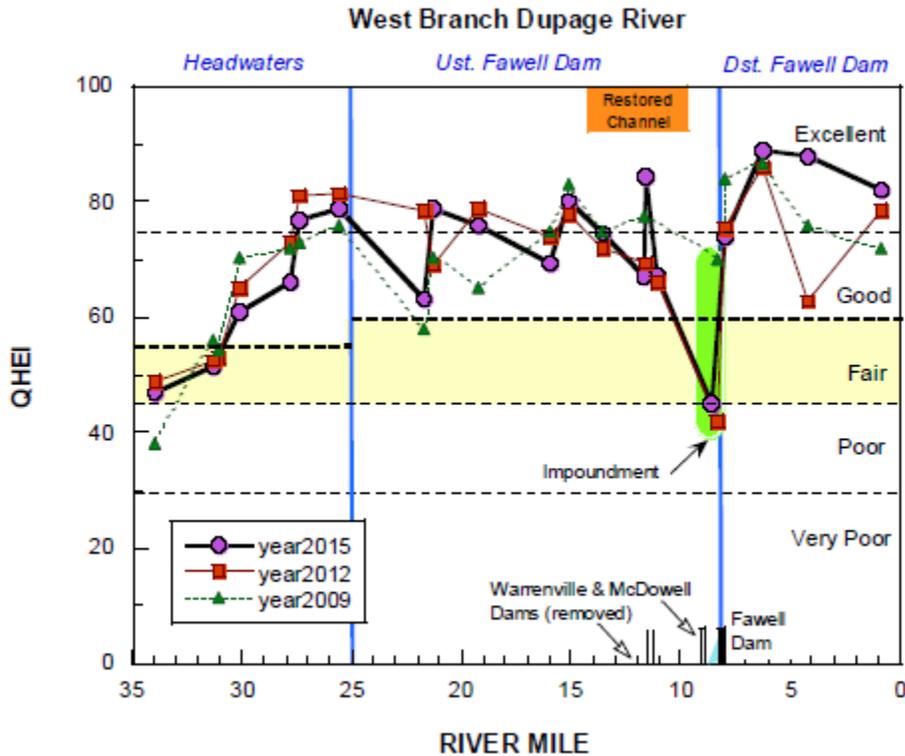
Figure 7. Qualitative Habitat Evaluation Index (QHEI) scores for the E. Branch DuPage River in 2007, 2011-12, and 2014 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). The shaded region depicts the range of QHEI 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

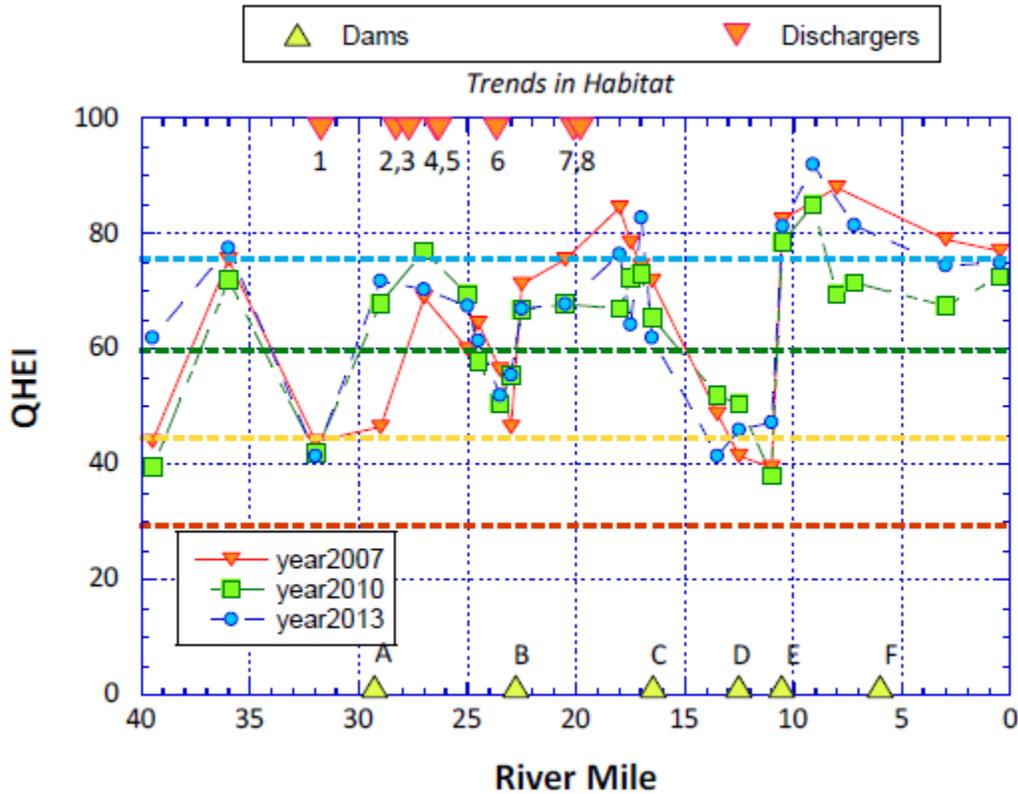


Salt Creek

In Salt Creek, the majority of the sites possessed the types and amounts of habitat features necessary to support aquatic life consistent with beneficial uses (Figure 49 a), with QHEI scores in the good and excellent range (Figure 9). Perhaps more telling, 19 of the sites possessed none of the attributes that characterized stream channels highly modified either directly or indirectly by anthropogenic modifications, and only one site, the most upstream site, possessed more than one highly modified attribute.

QHEI data from the 2016 Salt Creek bioassessment was not available at the time of the 2016-2017 MS4 Annual Report and will be included in the 2017-2018 MS4 Annual Report due on June 1, 2018.

Figure 9. Qualitative Habitat Evaluation Index (QHEI) scores for Salt Creek in 2007, 2010 and 2013 in relation to municipal WWTP discharges. Triangles along the x-axis depict mainstem dams or weirs. 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.



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 5. Water Quality and sediment Parameters sampled as part of the DRSCW Bioassessment Program.

Water Quality Parameters	Sediment Parameters
Demand Parameters 5 Day BOD Chloride Conductivity Dissolved Oxygen pH Temperature Total Dissolved Solids Total Suspended Solids Nutrients Ammonia Nitrogen/Nitrate Nitrogen – Total Kjeldahl Phosphorus, Total Metals Cadmium Calcium Copper Iron Lead Magnesium Zinc Organics – Water PCBs Pesticides Semivolatile Organics Volatile Organics	Sediment Metals Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Nickel Potassium Silver Zinc Sediment Organics 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, NH₃-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., cBOD₅, TSS, NH₃), 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 2013 were consistent with 2010.

Water chemistry data from the 2016 Salt Creek bioassessment was not available at the time of the 2016-2017 MS4 Annual Report and will be included in the 2017-2018 MS4 Annual Report due on June 1, 2018.

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.

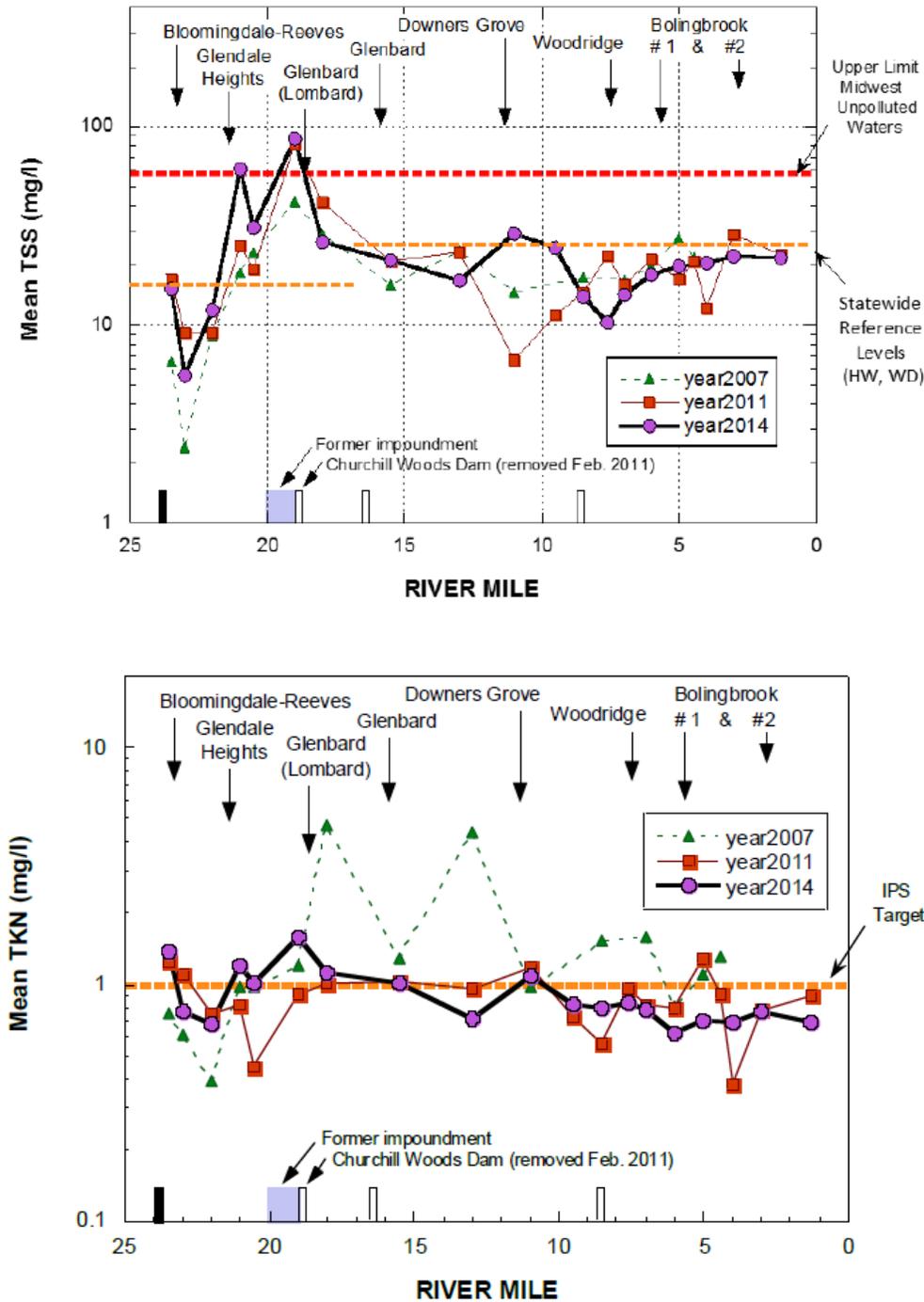


Figure 11. Concentrations of ammonia-N (top panel) and nitrate+nitrite-N (lower panel) from E. Branch DuPage River samples in 2007, 2011 and 2014 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (only black bars for dams that impede fish passage). For ammonia-N, 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).

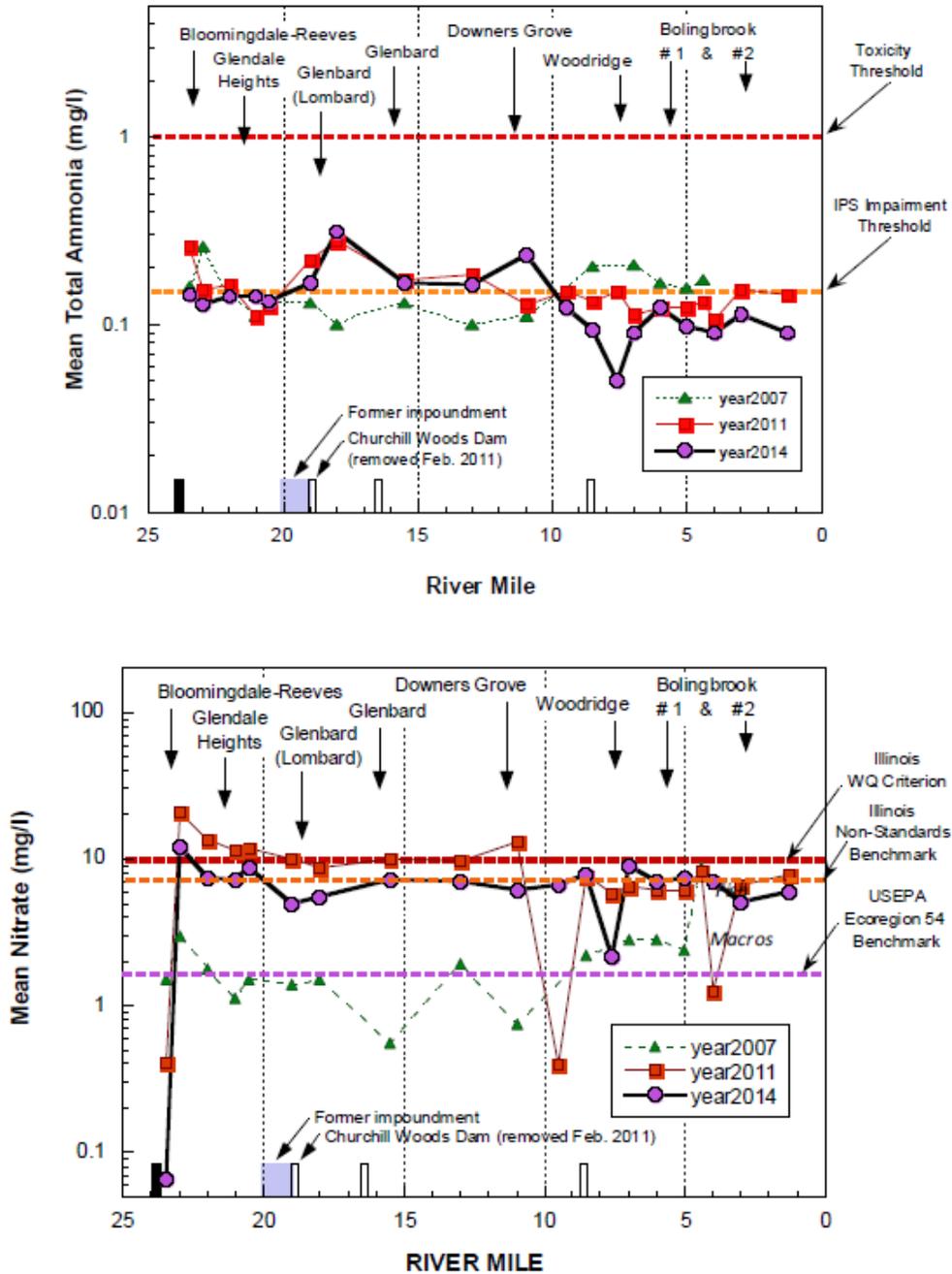


Figure 12. Concentrations total phosphorus from E. Branch DuPage River samples in 2007, 2011 and 2014 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). For phosphorus, orange dashed lines represent target concentrations 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.

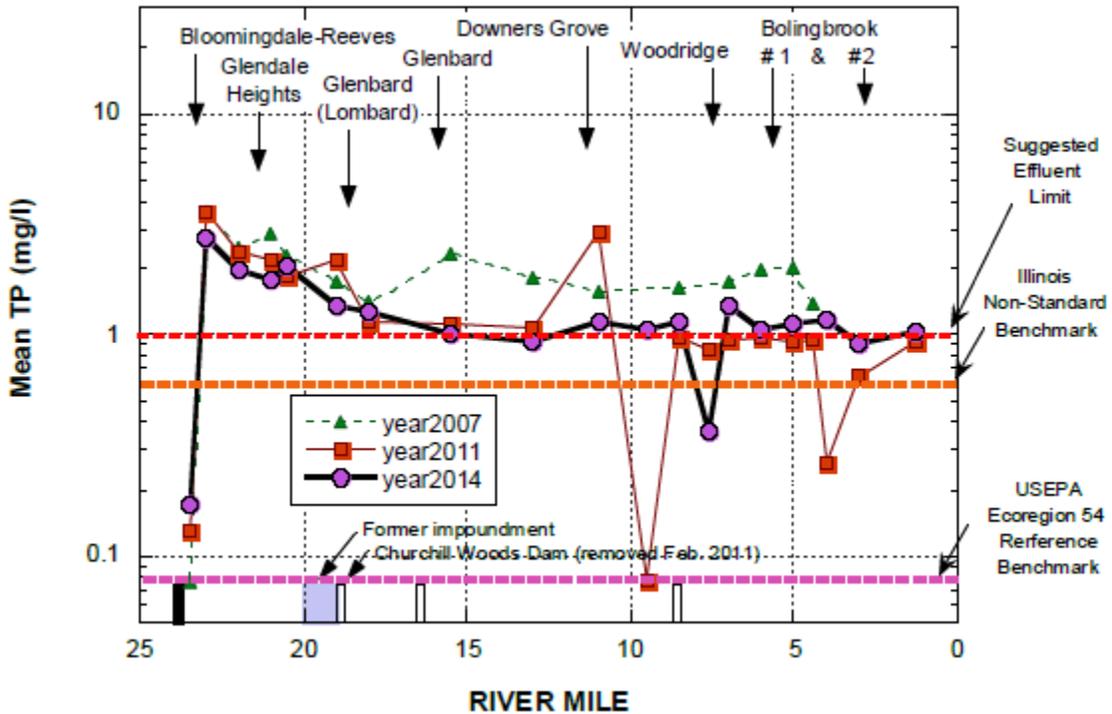


Figure 13. Chloride concentrations from the East Branch DuPage River in the summer of 2007, 2011 and 2014.

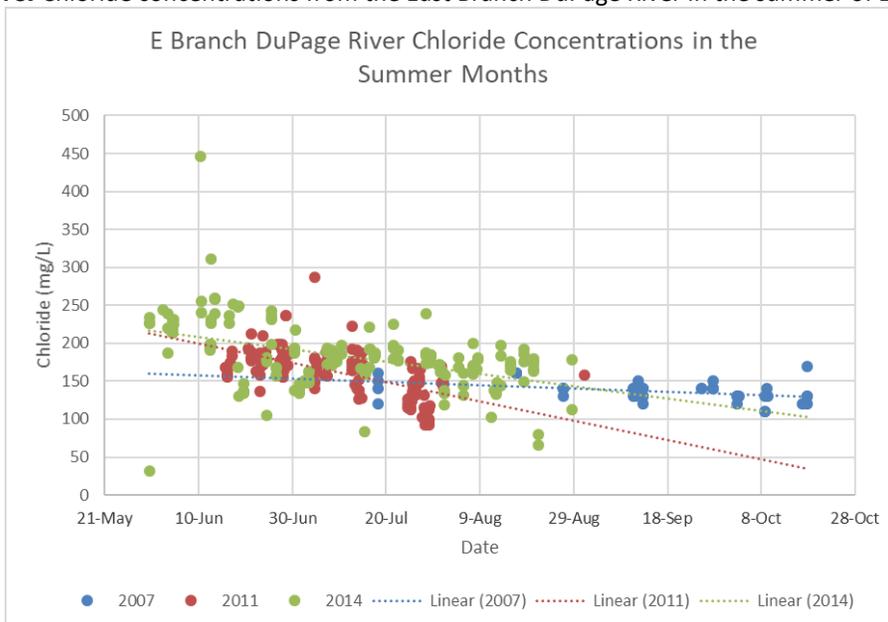


Figure 14. Concentrations of total suspended solids (top panel) and TKN (lower panel) from W. Branch DuPage River samples in 2008, 2012 and 2015 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). Red dashed lines 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.

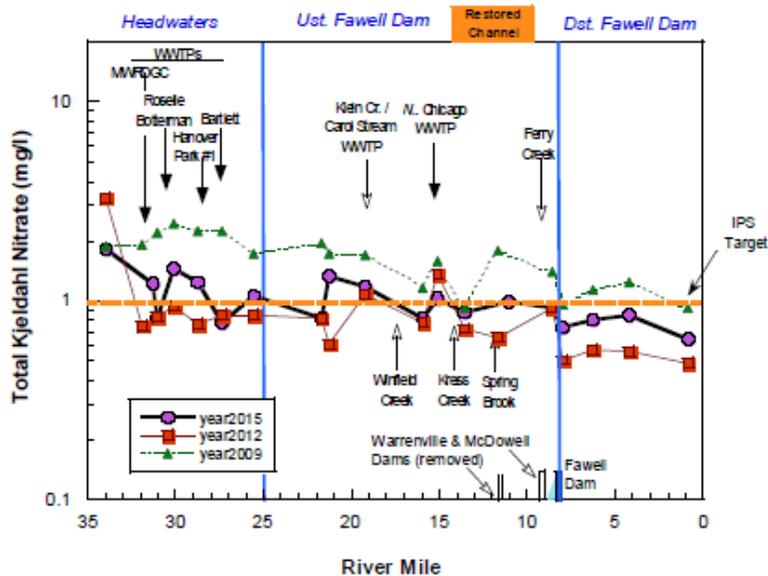
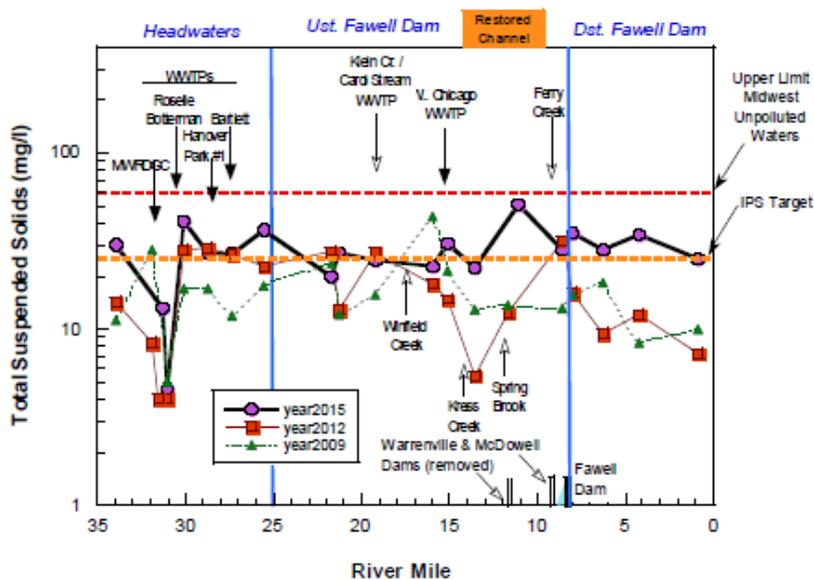


Figure 15. Concentrations of ammonia-N (top panel) and total nitrate (lower panel) from W. Branch DuPage River samples in 2008, 2012 and 2015 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (only black bars for dams that impede fish passage). For ammonia-N, 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.

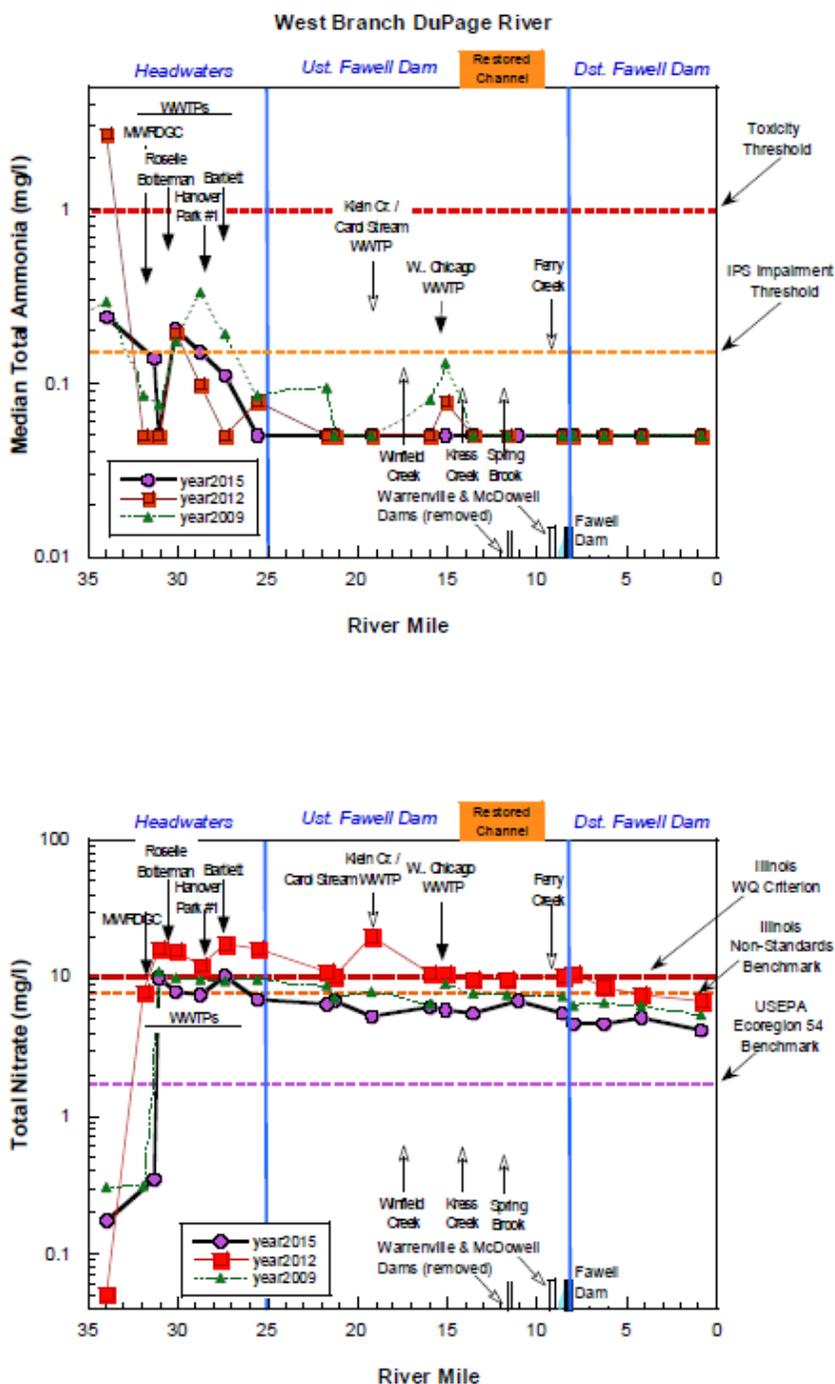


Figure 16. Concentrations total phosphorus (top panel) and chloride (lower panel) from W. Branch DuPage River samples in 2008, 2012 and 2015 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). For phosphorus, orange 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.

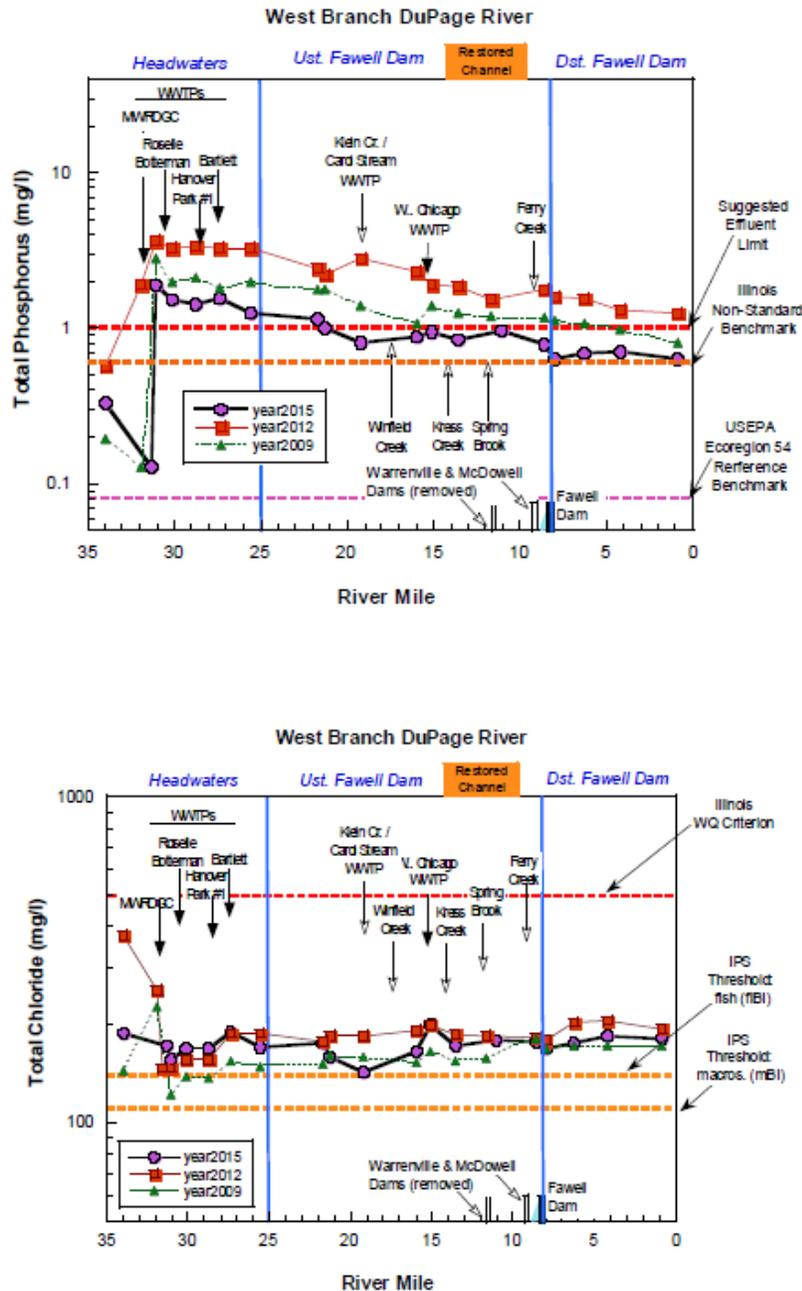


Figure 17. Concentrations of total suspended solids (top panel) and TKN (lower panel) from Salt Creek samples in 2007, 2010 and 2013 in relation to municipal WWTP discharges. Yellow triangles along the x-axis depict mainstem dams or weirs. Orange dashed lines shows the upper limits of concentrations 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.

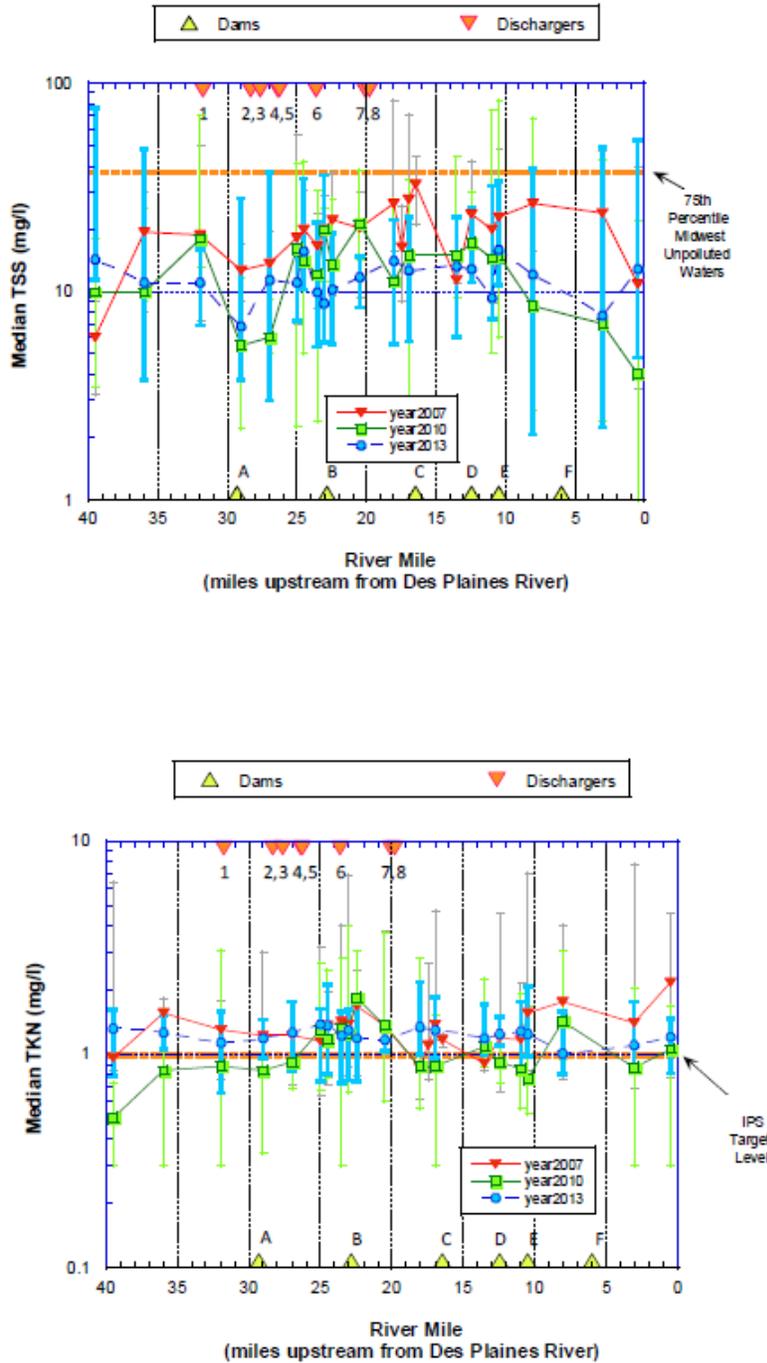


Figure 18. Concentrations of ammonia-N (top panel) and total nitrate (lower panel) from Salt Creek samples in 2007, 2010 and 2013 in relation to municipal WWTP discharges. Yellow triangles along the x-axis depict mainstem dams or weirs. For ammonia-N, the blue dashed line (1.0 mg/l) represents a threshold 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.

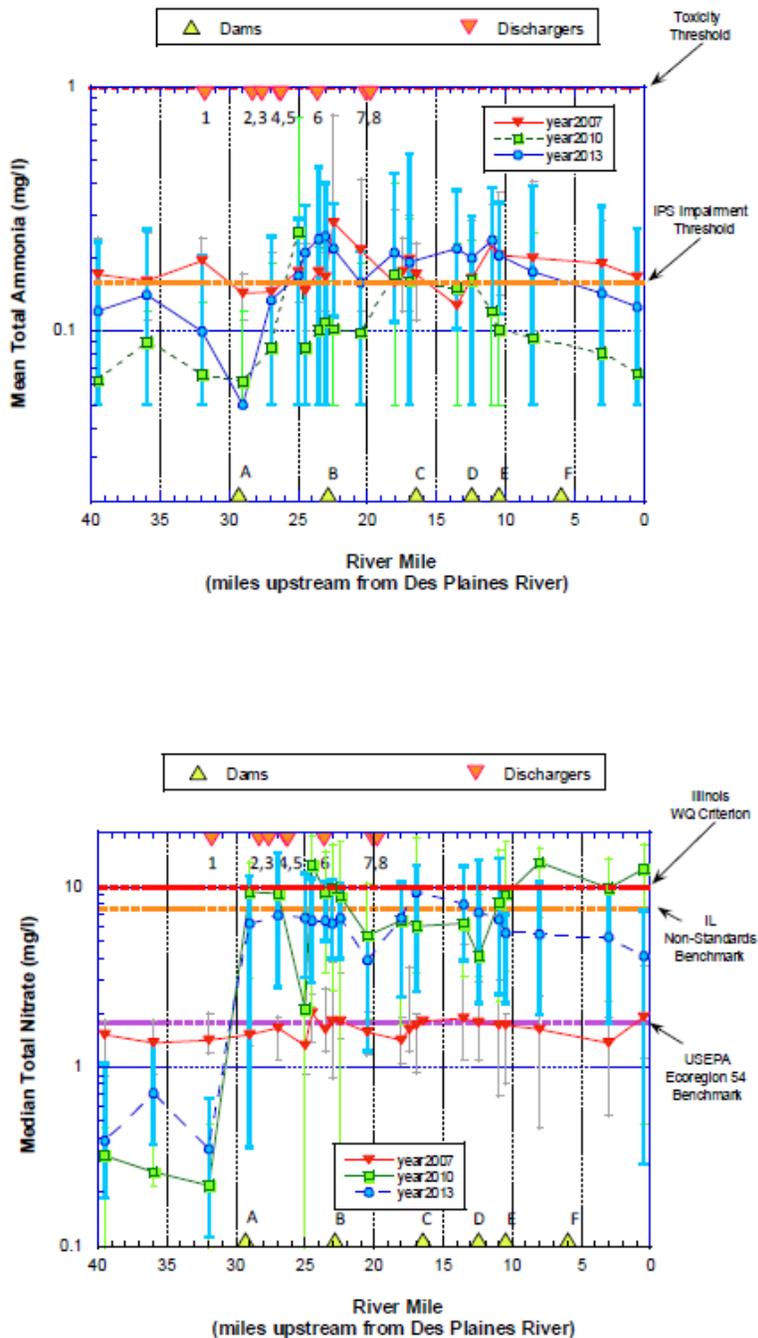
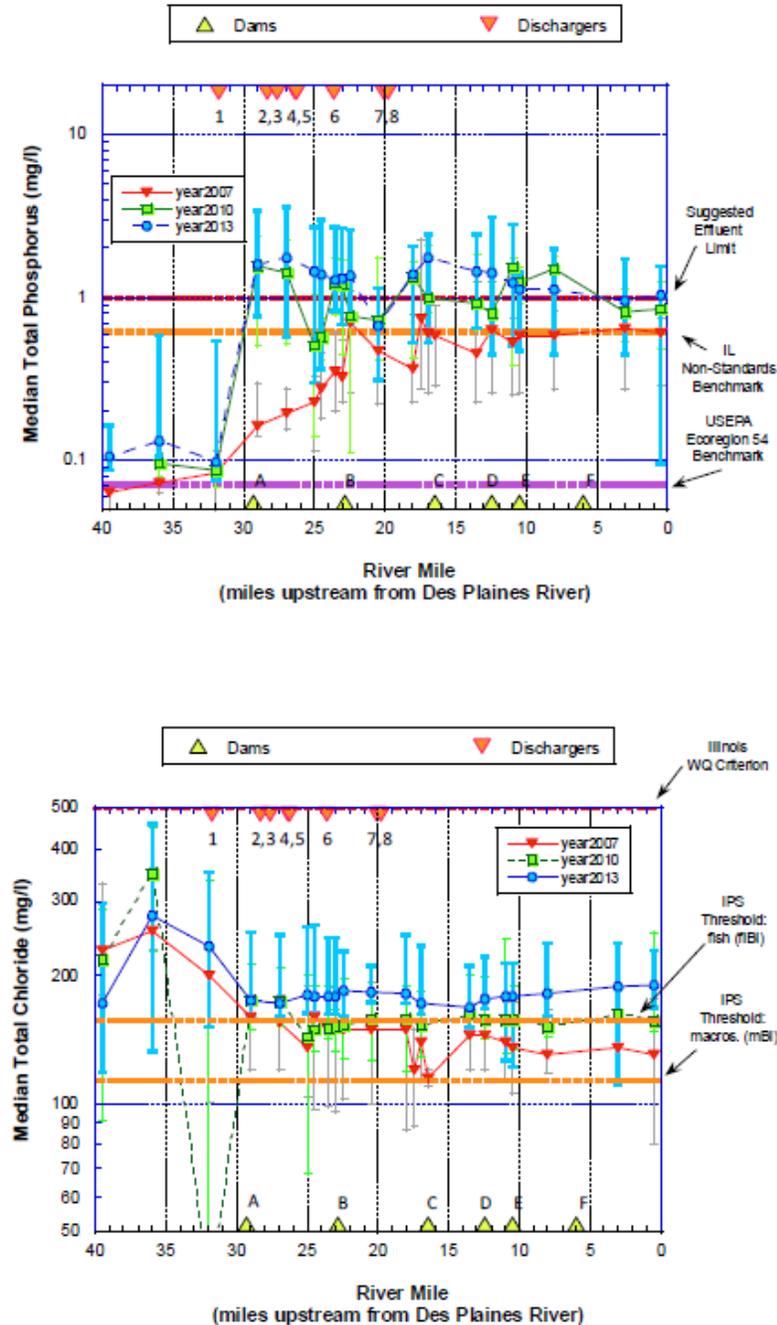


Figure 19. Concentrations total phosphorus (top panel) and chloride (lower panel) from Salt Creek samples in 2007, 2010, and 2013 in relation to municipal WWTP discharges. Yellow triangles along the x-axis depict mainstem dams or weirs. For phosphorus, purple dashed lines represent target concentrations 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.



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/dissolvedoxygen/>). 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
SCYR	Salt Creek	10.6	41.820552	-87.92658	York Road

Results

Results of the continuous DO monitoring conducted in the summer of 2016 is included in Figures 20-24.

Figure 20. Dissolved Oxygen plots for East Branch DuPage River sites EBAR (top panel) and EBCB (lower panel).

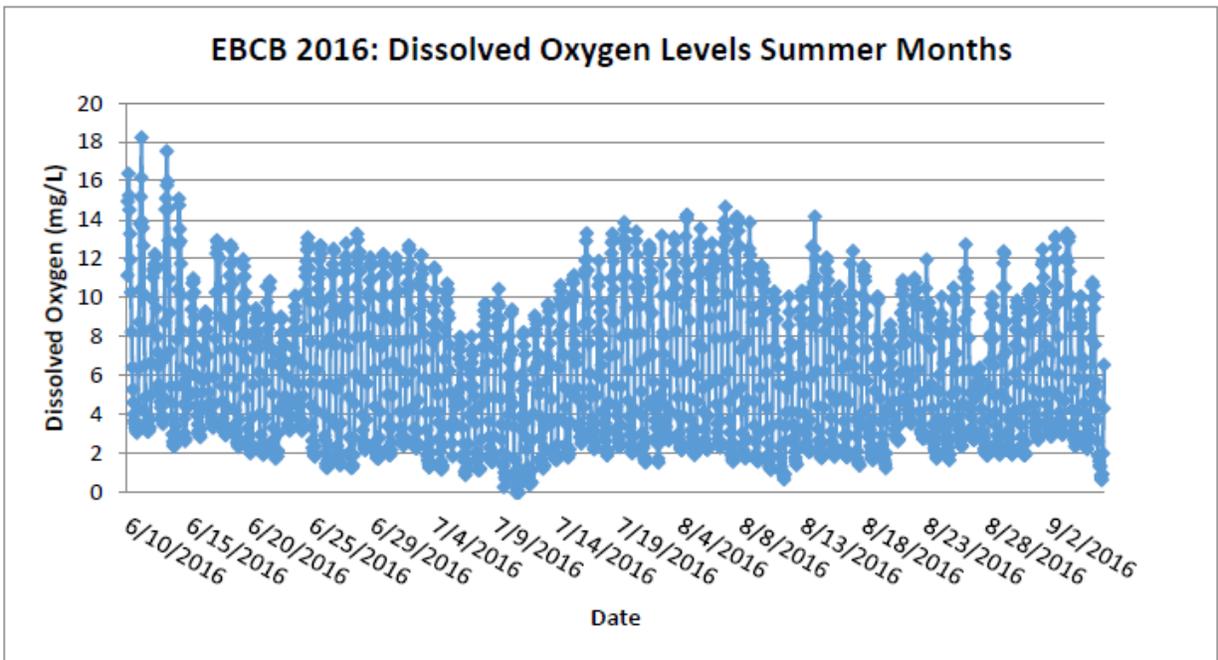
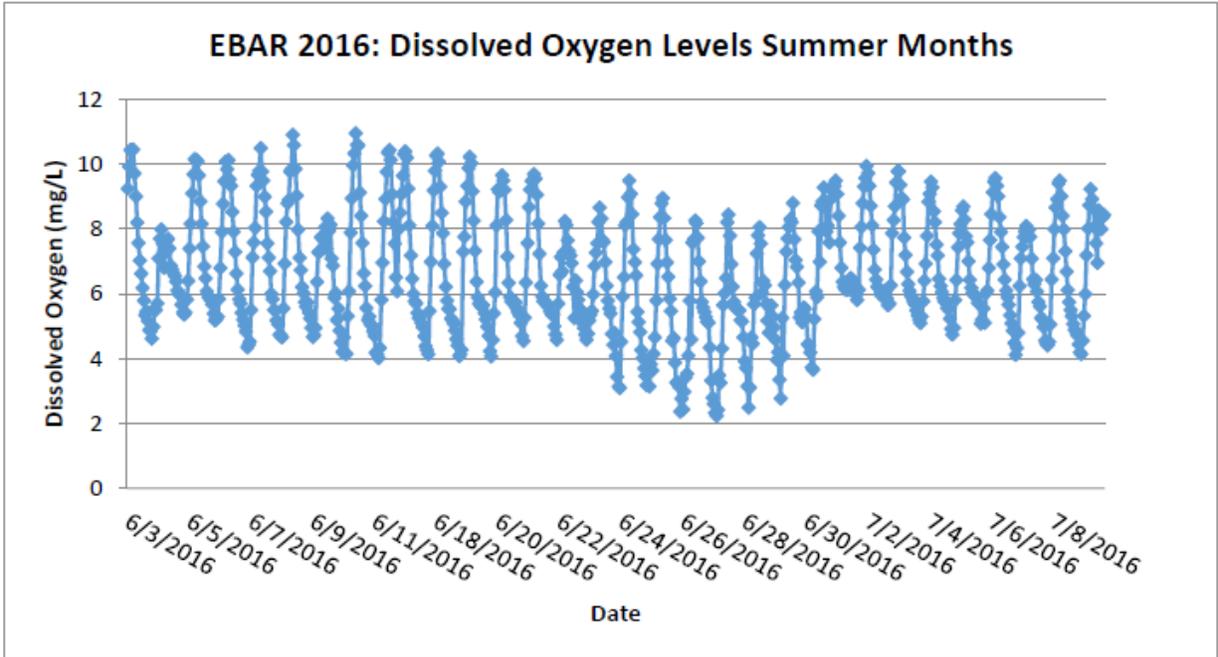


Figure 21. Dissolved Oxygen plots for East Branch DuPage River sites EBHL (top panel) and EBHR (lower panel).

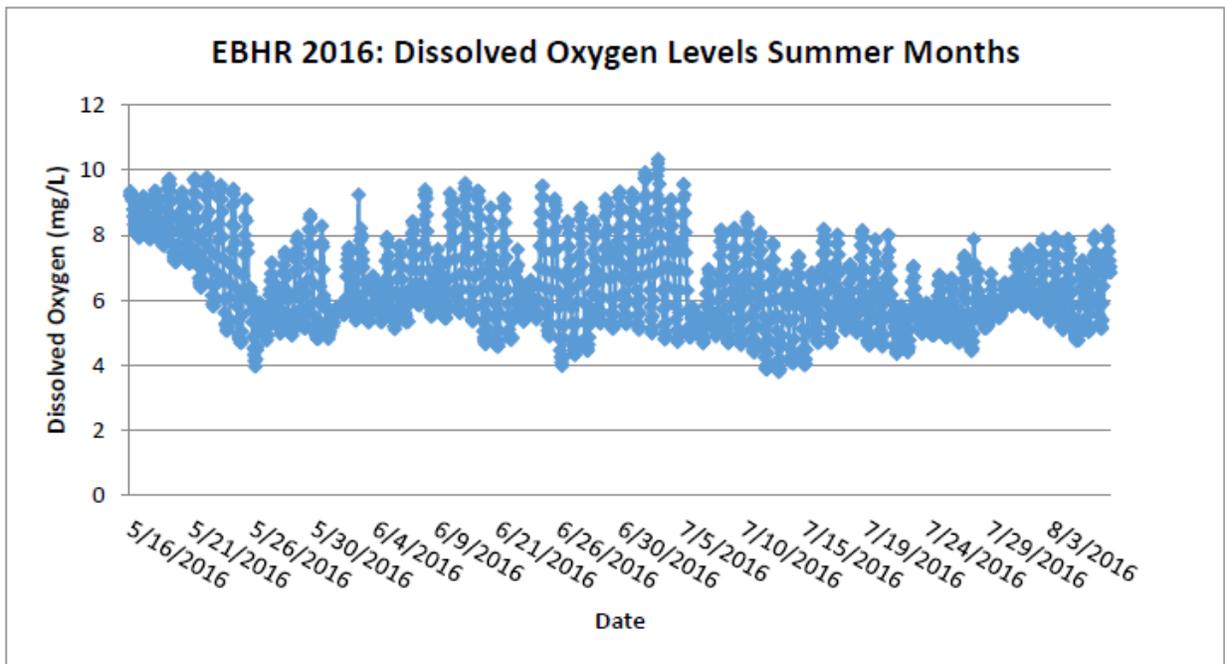
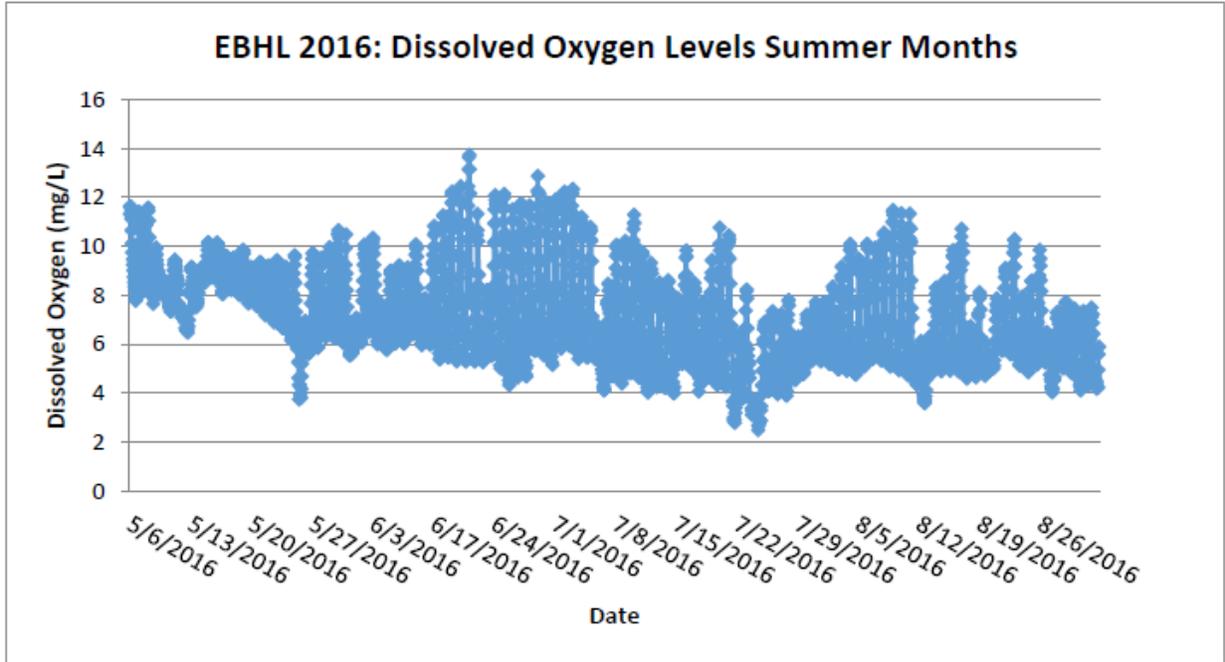


Figure 22. Dissolved Oxygen plots for West Branch DuPage River sites WBAD (top panel) and WBBR (lower panel).

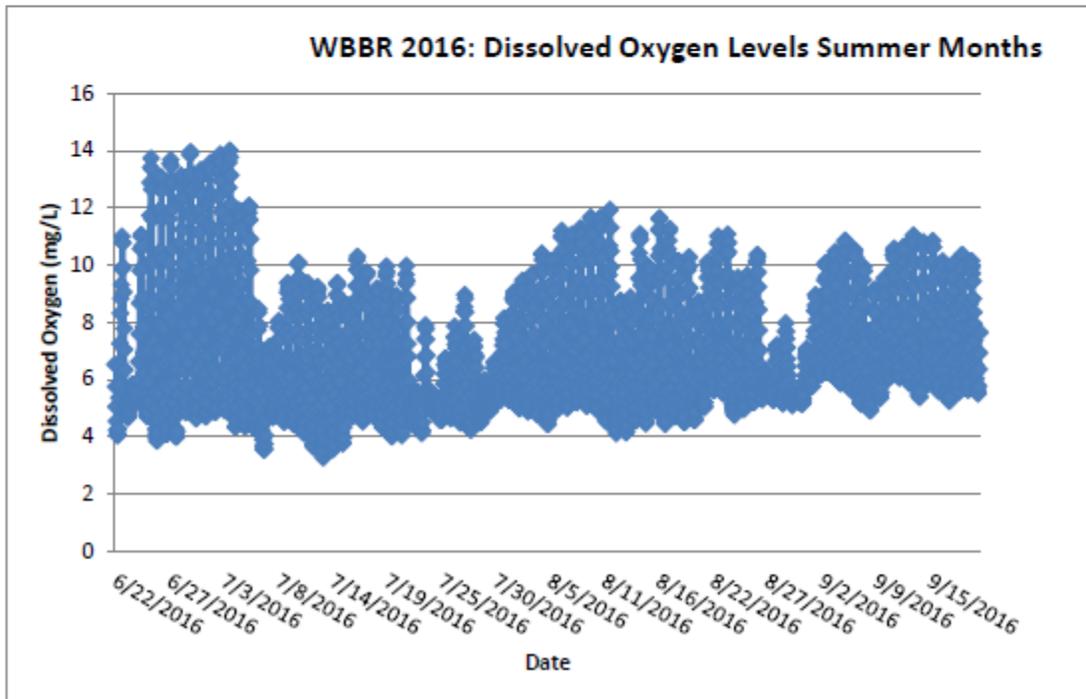
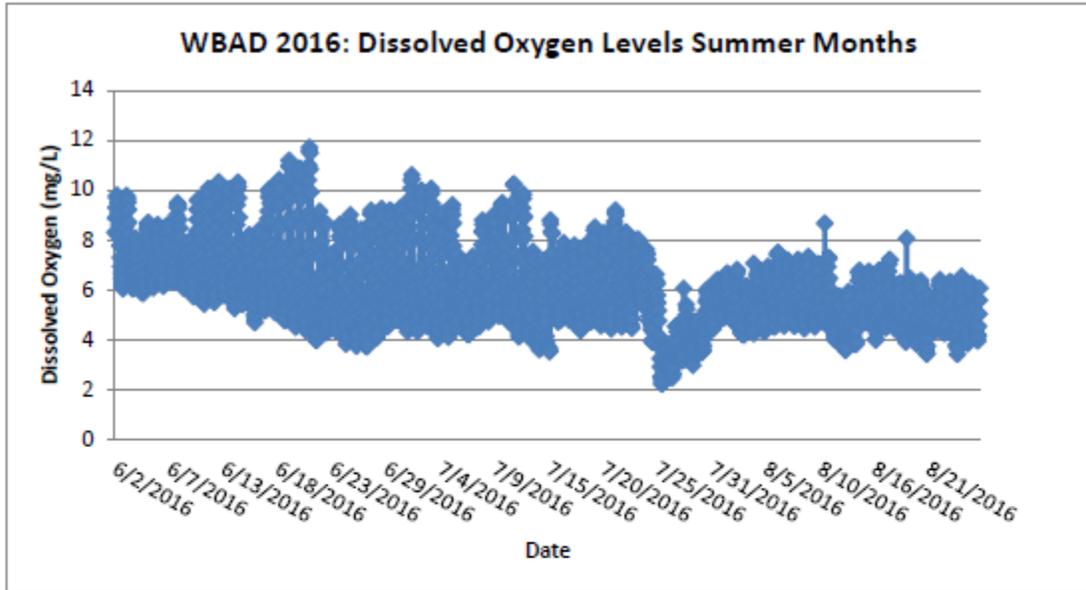


Figure 23. Dissolved Oxygen plots for West Branch DuPage River sites WBWD (top panel) and WBMG (lower panel).

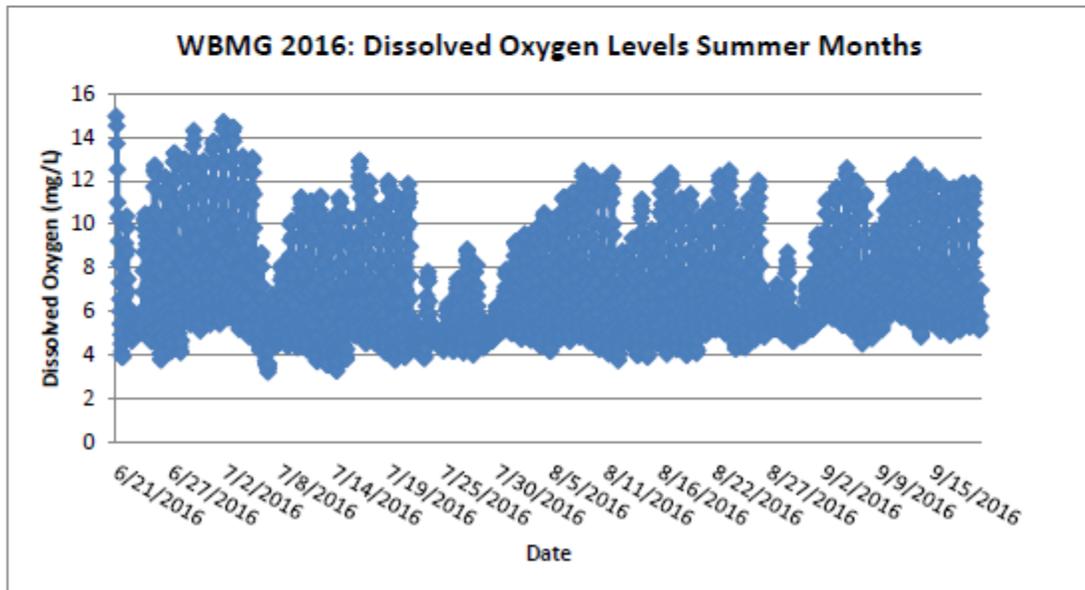
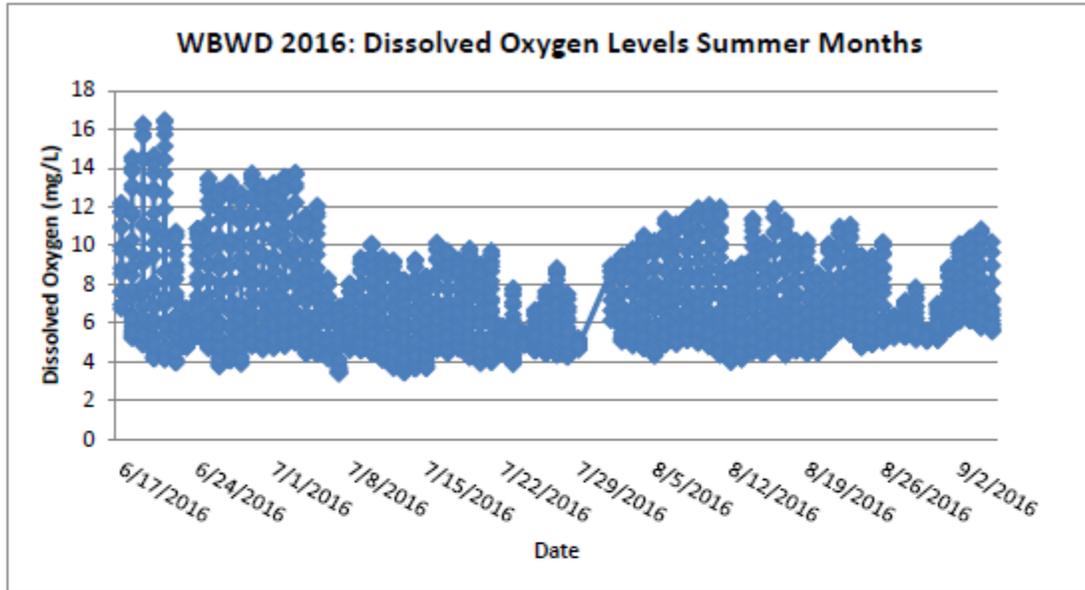
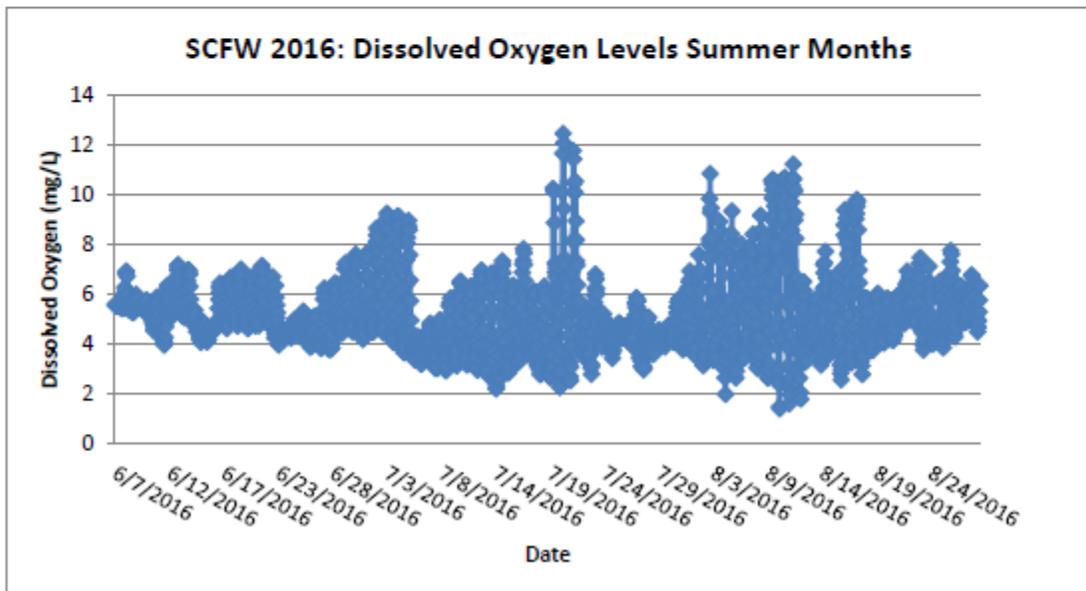
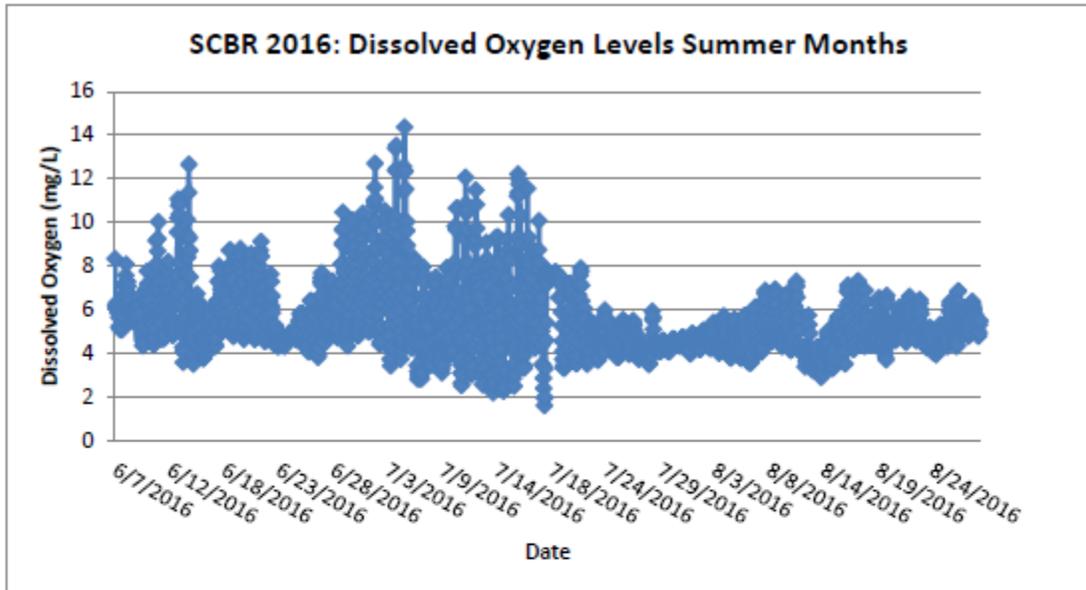


Figure 24. Dissolved Oxygen plots for Salt Creek sites SCBR (top panel) and SCFW (lower panel).



SECTION D

Proposed activities during the next reporting cycle:

As indicated previously in this report, DuPage County Stormwater provides many water quality services to municipalities and townships in order to comply with the NPDES permit No. ILR40. During the next reporting cycle, DuPage County plans to formalize this partnership by submitting an NOI for coverage under the ILR40 as co-permittees with the municipalities and townships within DuPage County. Intergovernmental agreements will be drafted which outline the responsibilities of each agency. It is our goal to eliminate redundancies and increase efficiency by providing one comprehensive report that covers the six minimum control measures for the entire County.

SECTION E

Reliance on other government entities:

The forty-one cooperating permit holders 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:

Project Name	Disturbed Acres	County Entity Constructing Project	Date of NOI
West Branch Re-Meander	4	Stormwater Management	1/29/2015
Graue Mill Phase 3a	3.29	Stormwater Management	4/14/2016
CH 33 75th Street at Book Rd	7.6	Transportation	4/24/2017
Du-Comm Building Proposed Improvements	18.9	Facilities Management	3/24/2017