



**DUPAGE  
COUNTY**

Watershed  
Management

Water  
Quality

Floodplain  
Mapping

Regulatory  
Services

Flood Operations  
& Maintenance



# STORMWATER MANAGEMENT

630-407-6700  
stormwatermgmt@dupageco.org

[www.dupageco.org/swm](http://www.dupageco.org/swm)

May 30, 2018

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

Re: AFIR for NPDES Phase II MS4 General Stormwater Permit Year 15  
Third Notice of Intent Year 2  
March 1, 2017 – March 1, 2018

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 15. 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 15<sup>th</sup> 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 Burr Ridge	0304
Village of Carol Stream	0308
City of Darien	0180
Village of Downers Grove	0183
Village of Glen Ellyn	0199
Village of Hanover Park	0347
Village of Hinsdale	0355
Village of Lemont	0497
Village of Lisle	0376
Village of Lombard	0378
City of Naperville	0396
City of Oakbrook Terrace	0232



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Village of Villa Park	0463
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 Winfield	0474
Village of Woodridge	0480

Township Highway/Road Districts

Addison Township Highway Department	0001
Bloomington Township Highway Department	0013
Downers Grove Township Highway Department	0040
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
City of Elmhurst	0187
Village of Glendale Heights	0342
Village of Itasca	0360
Village of Oak Brook	0407
Village of Roselle	0437
Village of Wood Dale	0478

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, 2017 To March, 2018

Permit No. ILR40 0502

#### 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 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)

County of DuPage

#### 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 Charlton

Printed Name:

5-30-18

Date:

Director, Stormwater Management

Title:

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

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

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.

2017 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 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 2):

*Develop or update 2 brochures or packets.*

##### Status:

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

##### Brochures

- Living on a Stream
- Pet Waste (Spanish)
- Illicit Discharge Detection & Elimination Public Awareness (Spanish)
- Flood Inundation Mapping
- Emergency Flood Operations (updated)

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/](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 2):**

*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:

<b>Event</b>	<b>Date</b>	<b>Location</b>	<b># of Attendees</b>	<b>NPDES Category</b>	<b>Involvement</b>
Klein Creek Stakeholder Meeting	3/2/2017	Klein Creek Watershed (West Branch DuPage River)	40	Education & Outreach	Host/Presenter
Winfield Creek Stakeholder Meeting	3/2/2017	Winfield Creek Watershed (West Branch DuPage River)	40	Education & Outreach	Host/Presenter
Kress Creek Stakeholder Meeting	3/2/2017	Kress Creek Watershed (West Branch DuPage River)	40	Education & Outreach	Host/Presenter
Sawmill Creek Stakeholder Meeting	3/2/2017	Sawmill Creek Watershed (Des Plaines River)	40	Education & Outreach	Host/Presenter
West Branch Watershed Workshop	3/9/2017	West Branch Watershed	40	Education & Outreach	Host/Presenter
Pollution Prevention Seminar for MS4s	4/5/2017	Countywide	150	Pollution Prevention/Good Housekeeping	Host
Lower Salt Creek Stakeholder Meeting	4/6/2017	Salt Creek Watershed	40	Education & Outreach	Host/Presenter
Salt Creek Watershed Workshop	4/13/2017	Salt Creek Watershed	40	Education & Outreach	Host/Presenter

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College of DuPage Natural Resource Symposium	4/20/2017	Countywide	100	Education & Outreach	Presenter
East Branch Watershed Workshop	5/11/2017	East Branch Watershed	40	Education & Outreach	Host/Presenter
Lower Salt Creek Stakeholder Meeting	6/8/2017	Salt Creek Watershed	40	Education & Outreach	Host/Presenter
Lower Salt Creek Stakeholder Meeting	8/10/2017	Salt Creek Watershed	40	Education & Outreach	Host/Presenter
First Lego League Tour	8/11/2017	Naperville	20	Education & Outreach	Host/Presenter
Kress Creek & Klein Creek Watershed Stakeholder Meeting	9/21/2017	Kress/Klein Creek Watersheds (West Branch DuPage River)	40	Education & Outreach	Host/Presenter
Lower Salt Creek Stakeholder Meeting	10/5/2017	Salt Creek Watershed	40	Education & Outreach	Host/Presenter
East Branch Watershed Workshop	10/17/2017	East Branch Watershed	40	Education & Outreach	Host/Presenter
West Branch Watershed Workshop	10/24/2017	West Branch Watershed	40	Education & Outreach	Host/Presenter
Sawmill Creek Public Meeting	10/26/2017	Sawmill Creek Watershed (Des Plaines River)	40	Education & Outreach	Host/Presenter
Museum of Science & Industry Science Café	11/17/2017	Regional	80	Education & Outreach	Presenter
Salt Creek Watershed Workshop	1/31/2018	Salt Creek Watershed	40	Education & Outreach	Sponsor/Presenter
2018 iLandscape Show	2/2/2018	Regional	20	Education & Outreach	Presenter
Immanuel Lutheran Elmhurst Quarry Presentation	1/21/2018	Elmhurst	20	Education & Outreach	Presenter
West Branch Watershed Workshop	2/15/2018	West Branch Watershed	40	Education & Outreach	Sponsor/Presenter
IAFSM Stormwater Funding Seminar	2/21/2018	Regional	80	Education & Outreach	Presenter
East Branch Watershed Workshop	2/22/2018	East Branch Watershed	40	Education & Outreach	Sponsor/Presenter
MS4 Implementation Seminar	2/27/2018	Countywide	70	Education & Outreach	Presenter
Flood Forecasting & Inundation Mapping	2/28/2018	Countywide	50	Education & Outreach	Presenter

### 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 2):**

*Broadcast 9 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. 6,500 subscribers  
<http://www.dupageco.org/stormwater/news.aspx>
- Facebook, Twitter & Instagram with more than 600 followers  
[www.twitter.com/lovebluedupage](http://www.twitter.com/lovebluedupage)  
[www.facebook.com/lovebluedupage](http://www.facebook.com/lovebluedupage)  
[www.instagram.com/lovebluedupage](http://www.instagram.com/lovebluedupage)
- YouTube with 13 outreach/training videos with more than 10,000 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 2):**

*Host or attend 3 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

<b>Event</b>	<b>Date</b>	<b>Location</b>	<b># of Attendees</b>	<b>NPDES Category</b>	<b>Involvement</b>
SCARCE Teacher Institute Day	3/3/2017	Countywide	20	Education & Outreach	Host/Sponsor
Sustainable Design Challenge	4/4/2017	Countywide	200	Education & Outreach	Host/Sponsor
Elmhurst College Water Quality Flag	4/6/2017	Elmhurst	20	Education & Outreach	Sponsor
Argonne Earth Day Event	4/20/2017	Lemont	100	Education & Outreach	Exhibit
York HS Quarry Tour	4/25/2017	Elmhurst	40	Education & Outreach	Host
Spring Wood M.S. Water Quality Flag	4/28/2017	Hanover Park	100	Education & Outreach	Host/Sponsor
Warrenville Arbor Day	4/29/2017	Warrenville	100	Education & Outreach	Exhibit
MOLEX Earth Week	5/11/2017	Lisle	50	Education & Outreach	Exhibit
Eisenhower Elementary School Quarry Tour	5/12/2017	Darien	200	Education & Outreach	Host
Cub Scout Quarry Tour	5/23/2017	Elmhurst	15	Education & Outreach	Host

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Downers Grove Public Works Open House	6/8/2017	Downers Grove	300	Education & Outreach	Exhibit
Villa Park Summerfest	6/17/2017	Villa Park	100	Education & Outreach	Exhibit
SCARCE Where is Water	6/19/2017	Countywide	20	Education & Outreach	Host/Sponsor
Downers Grove Grovesfest	6/23/2017	Downers Grove	100	Education & Outreach	Exhibit
Bensenville Wastewater Open House	7/8/2017	Bensenville	200	Education & Outreach	Exhibit
DuPage County Fair	July 26-30	Countywide	500	Education & Outreach	Exhibit
Cantigny Dog Days	8/5/2017	Countywide	200	Education & Outreach	Exhibit
Adopt-a-Stream Fall Kickoff	9/27/2017	Countywide	25	Education & Outreach	Sponsor
SCARCE Green Fair	9/30/2017	Countywide	300	Education & Outreach	Exhibit
Elmhurst Quarry Public Tour	9/30/2017	Countywide	500	Education & Outreach	Host
Chloride Workshop (Parking Lots & Sidewalks)	10/5/2017	Countywide	125	Education & Outreach	Sponsor
Carol Stream Water Reclamation Center Event	10/7/2017	Carol Stream	200	Education & Outreach	Exhibit
Chloride Workshop (Roads)	10/12/2017	Countywide	175	Education & Outreach	Sponsor
Green Infrastructure Seminar for MS4s	11/29/2017	Countywide	150	Education & Outreach	Host
DuPage Environmental Summit	1/25/2018	Countywide	300	Education & Outreach	Exhibit
Get the Scoop on Composting	2/14/2018	Countywide	100	Education & Outreach	Sponsor
Winter Plant Identification Class	2/23/2018	Countywide	30	Education & Outreach	Host

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*\*A previously recorded Green Infrastructure Design & Maintenance for MS4 Communities workshop was provided to attendees to share with employees and colleagues who are 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:

<b>Event</b>	<b>Date</b>	<b>Location</b>	<b># of Attendees</b>	<b>NPDES Category</b>	<b>Involvement</b>
Q&Q, Planning a Coal Tar Seminar	7/6/2017	DuPage	4	GOV / COM	DPC Health Department & Great Lakes Center for Children's Environmental Health
Q&Q, LP, River & Stream Clean - Ups	7/11/2017	Downers Grove	13	COM	West Suburban Humane Society
WSM Loan	7/12/2017	DuPage	1	GOV	DPC Stormwater
Q&Q, LP, River & Stream Clean - Ups	7/12/2017	Wheaton	17	COM	DuPage Animal Care & Control
Rx	7/12/2017	Westmont	1	B	Westmont Pharmacy
Q&Q, Leak Detection Tabs	7/12/2017	Villa Park	11	COM	Kiwanis Club
RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	7/12/2017	Glen Ellyn	13	COL	College of DuPage
Stormdrain Medallions, Q&Q	7/14/2017	Naperville	2	COM	St. Timothy Lutheran Church
Q&Q, LP, River & Stream Clean - Ups	7/14/2017	Naperville	10	COM	Naperville Area Humane Society
Q&Q, LP, River & Stream Clean - Ups	7/19/2017	Downers Grove	15	COM	West Suburban Humane Society
Q&Q, LP, River & Stream Clean - Ups	7/19/2017	Wheaton	18	COM	DuPage Animal Care & Control
Q&Q, LP, River & Stream Clean - Ups	7/21/2017	Naperville	18	COM	Naperville Area Humane Society

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Q&Q, RB, Rx, LP	7/24/2017	Lisle	21	COL	Illinois Benedictine University - Student Leader Program
Q&Q, LP	7/25/2017	Downers Grove	8	COM	Youth Group
Discussed Employee River Sweep	7/27/2017	Addison	3	B	Domtar
Rx Box program Coming to Warrenville	8/2/2017	Warrenville	2	GOV.	Warrenville Police Department
Program Opportunities, Teacher Workshops, WSM, LP, Rx, BMP, SWM, Stormdrain Medallions, WQF, SDC, GWFM, COR, Q&Q	8/2/2017	Naperville	165	CB	Illinois Education Association
Q&Q, LP, River & Stream Clean - Ups	8/3/2017	Downers Grove	13	COM.	West Suburban Humane Society
Water Quality Flag, Q&Q, Storm Drain Medallions, RB, NP, Rx	8/8/2017	Warrenville	1	GOV.	Warrenville Park District
LP, Q&Q, BMP	8/9/2017	Elmhurst	20	COM.	Elmhurst Art Museum
Planning Month Long Water Program for Children & Adults, RB, NP, SWM, BMP, Q&Q, WSM, LP, WQF, Stormdrain Medallions	8/9/2017	Itasca	3	GOV.	Itasca Public Library
Rx, GC	8/10/2017	Elk Grove	82	COM.	National Association of Professional Organizers (NAPO)

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NP, Q&Q, BMP	8/11/2017	Villa Park	1	GOV.	Villa Park Environmental Commission
Planning Meeting for Summer Reading Program - RB, Q&Q, SWM, Stormdrain Medallions	8/14/2017	Glen Ellyn	1	GOV.	Glen Ellyn Public Library
NP, RB, SWM, BMP, Q&Q, Rx, COR, LP	8/15/2017	Lemont	18	GOV.	Argonne National Laboratory - Garden Club
WSM, NP, RB, PP, SWM, BMP, Q&Q, GR, Rx, COR, Phos., Nutrient Load, LP	8/17/2017	Bloomingtondale	80	GOV.	Bloomingtondale Farmers Market
GC, Q&Q, BMP, Rx, WQF, Phos., Nutrient Load	8/23/2017	Wheaton	34	GOV.	Wheaton Park District
BMP, Q&Q, Stormdrain Medallions, Rx, LP	8/25/201	Oak Brook	33	B	Room & Board
RB, NP, PP, GB, SWM, BMP, Q&Q, GR, BS, Rx, COR, Phos., Nutrient Load, GC, LP, AB	8/31/2017	Glen Ellyn	25	COL	College of DuPage
SWM, BMP, Q&Q, RB	9/7/2017	Addison	2	B	Domtar
Cooking Oil Recycling, SWM, BMP	9/14/2017	Naperville	34	B	Naperville Chamber of Commerce Sustainability Committee
Cooking Oil Recycling	9/14/2017	Bloomingtondale	125	COM	Village of Bloomingtondale
RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, Phos., LP, GC,	9/15/2017	Itasca	18	GOV	Itasca Public Library

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Stormdrain Medallions					
Water Quality Flag, Q&Q, SWM	9/18/2017	Villa Park	1	COM	St. Paul Lutheran
Q&Q	9/18/2017	West Chicago	5	COM	Real Life Food Pantry
Water Quality Flag, Q&Q, SWM, BMP, NP, LP, Phos., Nutrient Load	9/22/2017	Wheaton	1	GOV	Wheaton Park District
Green Fair, Q&Q, NP	9/24/2017	Chicagoland	2	COM	Mike Novak Radio Show
Rx, Q&Q, SWM, BMP, Rx, Stormdrain Medallions	9/24/2017	Naperville	16	COM	1st Congregational Church
Rx	9/26/2017	Villa Park	18	COM	Villa Park Rotary
Rx, National Drug Take Back Day	9/26/2017	Villa Park	28	COM	Villa Park Garden Club
Cooking Oil Recycling, Rx	9/27/2017	Oak Brook	22	GOV	DuPage Mayors & Managers
WSM, PP, RB, NP, SWM, BMP, Q&Q, GR, Rx, Phos., LP	9/30/2017	Wheaton	1,088	COM	SCARCE
RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	10/3/2017	Glen Ellyn	21	COL	College of DuPage
WSM Loan	10/4/2017	DuPage	1	GOV	DuPage County
Cooking Oil Recycling, Rx, Stormdrain Medallions	10/5/2017	Oak Brook	23	GOV	DuPage Mayors & Managers Coalition
WSM, RB, NP, PP, SWM, BMP, Q&Q, Rx, COR, LP	10/7/2017	Downers Grove	160	GOV	Downers Grove Sanitary District
SWM, NP, Q&Q, Rx	10/9/2017	Elmhurst	22	COM	Junior Women's Club

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Q&Q, SWM, BMP, NP, PP, GB, COR, LP	10/11/2017	Westmont	1	GOV	Village of Westmont
NP, RB, SWM, BMP, Q&Q, Rx	10/13/2017	Elk Grove	5	COM	Prince of Peace
SWM, BMP, Q&Q, WL	10/16/2017	Addison	23	GOV	Metro Mayors Caucus
Rx, Q&Q	10/17/2017	Warrenville	21	GOV	Warrenville Park District
RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	10/18/2017	Glen Ellyn	44	COL	College of DuPage
Rx, COR	10/23/2017	Naperville	2	COM	Naperville Newcomers & Neighbors
Master Plan Meeting - Q&Q, BMP, SWM	10/25/2017	Wheaton	9	GOV	Forest Preserve District of DPC
Rx, COR	11/1/2017	Bensenville	4	GOV	Village of Bensenville
Rx, COR	11/1/2017	Glen Ellyn	17	COM	Kiwanis Club
RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	11/2/2017	Glen Ellyn	17	COL	College of DuPage
Commercial Food Scrap Composting	11/6/2017	Naperville	1	B	Hotel Arista
RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, COR, Phos., Nutrient Load, GC, LP, AB	11/7/2017	Aurora	28	COM	Tuesday Garden Club of Aurora
RB, LP, Q&Q, Rx, COR	11/8/2017	Naperville	20	COM	Boy Scouts
Q&Q, SWM, SMP, NP, Rx, RB	11/9/2017	Carol Stream	1	B	Core Centric
Q&Q, Nutrient Load, Phos.,	11/14/2017	Wheaton	26	COM	Gardens Etcetera

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SWM, BMP, COO, Rx					
WSM Loan	11/15/2017	DuPage	1	GOV	DuPage County
RB, LP, Q&Q, Rx, COR	11/15/2017	Elmhurst	19	COM	Boy Scouts
RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, COR, Phos., Nutrient Load, GC, LP, AB	11/15/2017	Bartlett / Hanover Park	28	COM	Tri Village Garden Club
RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	11/21/2017	Glen Ellyn	24	COL	College of DuPage
Cooking Oil Recycling	11/25/2017	Glen Ellyn	56	COM	SCARCE
Rx, GC, AB, Q&Q	11/27/2017	Downers Grove	7	Nurses	School District 58
Rx	11/28/2017	Naperville	45	COM	Rotary Club
RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	11/29/2017	Glen Ellyn	10	COL	College of DuPage
RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	11/30/2017	Glen Ellyn	24	COL	College of DuPage
Green Audit - RB, NP, PP, GB, SWM, BMP, Q&Q, COR, GC, AB	12/5/2017	Westmont	5	GOV.	Village of Westmont
Q&Q, BMP, Flushable Wipe, Stormdrain Medallions	12/7/2017	DuPage	45	GOV.	Municipal Engineers

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SCARCE Open House - WSM, RB, NP, PP, SWM, BMP, Q&Q, Rx, COR, COO, SDC, GC, LP, WQF	12/7/2017	Glen Ellyn	58	COM.	SCARCE
WSM, NP, PP, RB, SWM, BMP	12/7/2017	Glen Ellyn	10	COM.	Boy Scouts
Grad Credit Summer Workshops Planning Meeting	12/12/2017	DuPage	2	GOV.	Regional Office of Education
Program Opportunities, Staff Training, Lunch & Learn	12/13/2017	Roselle	2	B	Clarke
Planning For Summer Camp Programs - WSM, Stormdrain Medallions, SWM, BMP, Q&Q	12/20/2017	Addison	1	GOV.	Addison Park District
Youth Program Planning, WSM, Rain Gauges, LP, WL	12/26/2017	Itasca	1	GOV	Itasca Public Library
Lead - Free Hoses	1/4/2018	Glen Ellyn	19	COM.	Hawthorne Garden Club
Rx	1/10/2018	Aurora	21	COM.	Aurora A.M. Rotary
RB, LP, Q&Q, Rx, COR	1/13/2018	Aurora	9	COM.	Daisy Troop
WSM	1/15/2018	Glen Ellyn	50	COM.	St. Petronile Church
RB, LP, Q&Q, Rx, COR	1/15/2018	Bloomingtondale	11	COM.	Daisy Troop
WQF, WSM, SWM, BMP, Q&Q, Rx	1/16/2018	Woodridge	2	COM.	Girl Scouts of Greater Chicago and Northwest Indiana
Program Planning Meeting, WSM, SWM, BMP, Q&Q, Rx, COR, LP	1/19/2018	West Chicago, Westmont, Wheaton	1	COM.	People's Resource Center

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RB, LP, Q&Q, Rx, COR	1/22/2018	Elmhurst	12	COM.	Girl Scouts
RB, NP, PP, SWM, BMP, HHW, Q&Q, GR, RX, COO, COW, BS, PHOS, NL, ER, AB, RE, LP, GC	1/22/2018	Glen Ellyn	21	COM.	College of DuPage
WSM, RB, NP, PP, SWM, GB, BMP, Q&Q, GR, Rx, COR, SDC, LP, AB	1/25/2018	Naperville	350	GOV. / COM.	DuPage County / Conservation Foundation
RB, Rx, COR, BMP	1/26/2018	Lombard	16	COM.	Cub Scouts
WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, COR, LP, Leak Detection Tablets	2/3/2018	Oak Brook	250	COM.	Forest Preserve District of DuPage County
WSM, COR, LP, SWM, SDC, COO, Program Opportunity, Stormdrain Medallions	2/5/2018	Elmhurst	8	COM.	Girl Scout Unit Service Meeting
Sustainable Design Challenge Planning Meeting	2/12/2018	Wheaton	3	GOV.	Dupage County
Q&Q, COR, SWM, Rx, RB, NP, Nutrient Load, LP, CCO	2/15/2018	Lombard	39	B	NGK Spark Plug
GC, COC	2/16/2018	Glen Ellyn	1	B	Body & Brain Yoga Center
RB, LP, Q&Q, Rx, COR	2/20/2018	Glen Ellyn	23	COM.	Brownie Scouts
COC, Rx, Q&Q, Leak Detection Tablets	2/21/2018	Naperville	31	COM.	Naperville Newcomers & Neighbors
RB, LP, Q&Q, Rx, COR	2/21/2018	Elmhurst	14	COM.	Cub Scouts

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COC, LP, Rx, COR, Q&Q	2/22/2018	Lombard	26	COM.	Lexington Square
Planning Environmental Summer Reading Program, RB, SWM, BMP, Q&Q, Rx, COC, WSM, LP, Stormdrain Medallions, WQF	2/22/2018	Glen Ellyn	2	GOV.	Glen Ellyn Public Library
COR, Q&Q, BMP	2/23/2018	Oak Brook	5	GOV.	Forest Preserve District of DuPage County
WQF, Staff Training Planning	2/23/2018	Naperville	1	GOV.	Naperville Park District
Rx, COR	2/24/2018	Wheaton	600	COM.	Illinois Institute of Technology
RB, LP, Q&Q, Rx, COR	2/26/2018	Aurora	9	COM.	Girl Scouts
RB, LP, Q&Q, Rx, COR	2/27/2018	Glen Ellyn	13	COM.	Girl Scouts
WQF, Q&Q, BMP, SWM	2/28/2018	Wheaton	11	GOV.	Wheaton Park District
<b>Total attendees</b>			<b>4325</b>		

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 2):**

*Outreach programs with 330 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:

<b>Event</b>	<b>Date</b>	<b>Location</b>	<b># of Attendees</b>	<b>NPDES Category</b>	<b>Involvement</b>
Q&Q	7/7/2017	Lombard	4	ST	Glenbard East H.S.
Water Quality Flag	8/11/2017	Villa Park	75	T	School District 45
Grad Credit Workshop, Teacher Workshops, Supply Loans, WSM, NP	8/16/2017	Lombard	18	T	York Center
Grad Credit Workshop, Teacher Workshops, Supply Loans, WSM, Phos., RB	8/25/2017	Downers Grove	63	T	Avery Coonley
Water Quality Flag	9/5/2017	Wheaton	1	T	Emerson E.S.
Green Fair, Cooking Oil Recycling, Workshops, Program Opportunities,	9/7/2017	Wheaton	93	T,ST	Wheaton North H.S.

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Stormdrain Medallions, LP					
Q&Q, Erosion Control, BMP, SWM	9/8/2017	Glen Ellyn	55	T, ST	St. Petronile's
Water Quality flag	9/11/2017	Lombard	2	T	Stevenson School
Q&Q, Erosion Control, BMP, SWM	9/12/2017	Glen Ellyn	55	T, ST	St. Petronile's
Planning for WSM Presentations, Stormdrain Medallions, Water Quality Flag	9/20/2017	Downers Grove	2	T	O'Neil M.S.
WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, Phos., LP	9/25/2017	Downers Grove	39	T,ST	Avery Coonley
WSM Loan	9/25/2017	Darien	26	T	Lace E.S.
Q&Q, NP, RB, SWM, BMP, AB, LP, GB, Rx	9/29/2017	West Chicago	78	T, ST	Benjamin M.S.
Water Quality Flag, WL, Teacher Workshops	10/3/2017	Villa Park	16	T	Stevenson E.S.
WSM, Q&Q, SWM, NP, PP, GB, BMP, GR, BS, Rx, LP	10/5/2017	Naperville	102	T, ST	Thayer Hill M.S.
WSM Loan	10/5/2017	Lombard	72	T, ST	Glenbard East H.S.
WSM,WQF, LP, NP	10/6/2017	Downers Grove	2	T	Lester E.S.
WSM Loan	10/9/2017	Elmhurst	24	T, ST	Hawthorne E.S.
WQF Staff Training - RB, NP, PP, GB, SWM, BMP, Q&Q, GR, BS, Rx, COR,	10/11/2017	Downers Grove	26	T	Henry Puffer E.S.

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Phos., Nutrient Load, GC, LP, AB					
WSM, NP, PP, SWM, BMP, Q&Q, Rx, COR, Phos., LP, WQF	10/18/2017	Downers Grove	90	T, ST	Henry Puffer E.S.
WQF, WSM, Eco Club Ideas, Teacher Workshops	10/19/2017	Glen Ellyn	2	T	Westfield E.S.
WQF, WSM, Q&Q, Phos., Nutrient Load, SWM, LP, Stormdrain Medallions, BMP, GR, RB, Lead - Free Hoses, PP, NP	10/19/2017	Villa Park	8	T	Stevenson E.S.
NP, Rx	10/20/2017	Naperville	18	T	South East Alternative School
Q&Q, SWM, WL, LP, WQF	10/20/2017	Villa Park	182	T, ST	Stevenson School
Teacher Workshops, Grad Credit Workshops, Q&Q, AB, GC, Rx, COR, Phos., NP, Newsletters	10/25/2017	Villa Park	36	T	Ardmore E.S.
WSM Workshop	10/26/2017	Glen Ellyn	6	T	DuPage County
Q&Q, WL, LP	10/27/2017	Villa Park	522	T, ST	Ardmore E.S.
WSM Loan and Training	11/8/2017	Wheaton	41	T	Carriers of Light
WSM, SWM, Q&Q, Rx, Phos., Nutrient Load, LP, AB, WQF	11/13/2017	Downers Grove	129	T, ST	O'Neil M.S.
WSM, SWM, Q&Q, Rx, Phos.,	11/14/2017	Downers Grove	122	T, ST	O'Neil M.S.

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Nutrient Load, LP, AB, WQF					
Green Ribbon School Award Recognition	11/14/2017	Carol Stream / Westmont	9	T, Admins	Western Trail E.S. / Maercker Intermediate School
RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, COR, BS, PHOS, NL, ER, AB, RE, LP, GC, GB, WQF	11/16/2017	Downers Grove	129	T, ST	O'Neil M.S.
RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, COR, BS, PHOS, NL, ER, AB, RE, LP, GC, GB, WQF	11/17/2017	Downers Grove	122	T,ST	O'Neil M.S.
Stormdrain Medallions	11/21/2017	Downers Grove	19	T, ST	O'Neil M.S.
GWFM Loan, Water Program Scheduling	11/22/2017	Naperville	302	T, ST	Still M.S.
WSM Planing	11/30/2017	Lombard	1	T	Glenbard East H.S.
RB, Lead - Free Hoses, BMP, Q&Q, COW	12/1/2017	Roselle	2	T, Admin	Lincoln Academy
WSM Loan & Training	12/5/2017	Glen Ellyn	31	T	Westfield
WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, COO, LP, AB	12/5/2017	Glen Ellyn	32	T, ST	Westfield
WSM Loan	12/6/2017	Downers Grove	133	T,ST	Downers Grove North H.S.
WSM, Environmental Club Ideas	12/8/2017	Bartlett	1	T	Centennial School
SDC	12/8/2017	Lombard	9	T, Admin., ST	Glenbard East H.S.

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Commercial Food Scrap Composting	12/12/2017	Lombard	4	T, Admin., Parents	Hammerschmidt E.S.
Water Quality Flag Staff Training - RB, NP, PP, GB, SWM, BMP, Q&Q, GR, BS, Rx, COR, Phos., WSM, GC, LP, AB, WQF	12/13/2017	Downers Grove	32	T	O'Neil M.S.
Green Audit - RB, NP, BMP, Q&Q, Rx, LP, Stormdrain Medallions, COO, GC, AB	12/13/2017	Roselle	3	T, Admin.	Lincoln Academy
Water Quality Flag Staff Training - RB, NP, PP, GB, SWM, BMP, Q&Q, GR, BS, Rx, COR, Phos., Nutrient Load, WSM, GC, LP, AB, WQF, Stormdrain Medallions, WL, COO	12/14/2017	Lombard	22	T	Schafer School
Wetland Restoration Grant Planning Meeting	12/15/2017	Villa Park	2	T, Admin.	Stevenson
WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, BS, Rx, COO, COR, Phos., Nutrient Load, LP	12/15/2017	Elmhurst	17	T, ST	Field E.S.
Wetland Discussion Meeting, Stormwater Grant	12/21/2017	Villa Park	7	T, Admin	Stevenson School

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SWM, Q&Q, BMP, Watersheds, Nutrient Load, WSM, NP, Straw bales, Silt Fences, PP, RB, WL, LP	1/18/2018	Lombard	489	T, ST	Schafer E.S.
WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, COR, Nutrient Load, LP	1/23/2018	Naperville	291	T, ST	Still M.S.
Wetland Planning Meeting - SWM, BMP, Q&Q, Nutrient Load, WL, WSM, RB, COR, WQF	1/23/2018	Lombard	9	T, Admin.	Stevenson E.S.
WSM, NP, PP, BMP, GR, BS, Stormwater & Water Quality Solutions	1/24/2018	Naperville	291	T, ST	Still M.S.
SWM, Q&Q, BMP, LP, NP	1/26/2018	Lisle	61	T, ST	Lisle Jr. High
WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, COR, LP	1/27/2018	Westmont	190	ST, T, COM.	Maercker SD 60
Composting Workshop - COC, COO, SWM, Erosion Control, BMP	1/30/2018	Glen Ellyn	16	T	SCARCE
SWM, BMP, Q&Q, Nutrient Load, LP	1/31/2018	Glen Ellyn	274	T, ST	Hadley Jr. High
WSM Loan	2/12/2018	Glen Ellyn	24	T, ST	St. Petronille
WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, Rx, COR, LP, Leak Detection Tablets	2/12/2018	Naperville	250	T, ST	Fry E.S.

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WSM, RB, NP, PP, SWM, BMP, Q&Q, Rx, COR, LP	2/13/2018	West Chicago	98	T, ST	Indian Knoll E.S.
WSM Loan	2/19/2018	Wheaton	76	T, ST	St. Michael's School
WSM, LP, SWM, WQF, COR, Q&Q	2/21/2018	West Chicago	3	T	Currier E.S.
WSM Loan	2/27/2018	Elmhurst	6	T, ST	Emerson E.S.
WSM, RB, NP, PP, SWM, BMP, Q&Q, GR, COR, LP	2/28/2018	Clarendon Hills	31	T, ST	Prospect E.S.
Total attendees			4895		

**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 2):**

*Hold 7 watershed stakeholder meetings per year.*

**Status:**

DuPage County staff held 8 watershed stakeholder meetings throughout the county during the reporting year. These events are open to all members of the public.

Event	Date	# of Attendees	NPDES Category	Involvement
West Branch Watershed Workshop	40	40	Education & Outreach	Host, Speaker
Salt Creek Workshop	4/13/17	40	Education & Outreach	Host, Speaker
East Branch DuPage River Workshop	5/11/17	40	Education & Outreach	Host, Speaker
East Branch Watershed Workshop	10/17/17	40	Education & Outreach	Host, Speaker
West Branch Watershed Workshop	10/24/17	40	Education & Outreach	Host, Speaker
Salt Creek Watershed Workshop	1/31/18	40	Education & Outreach	Host, Speaker
West Branch Watershed Workshop	2/15/18	40	Education & Outreach	Host, Speaker
East Branch Watershed Workshop	2/22/18	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 2):**

*Hold one meeting per year for the public to provide input.*

**Status:**

The DuPage County Stormwater Management Planning Committee regularly holds monthly meetings on the first Tuesday of each month at 7:30am. 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 February 6, 2018 meeting was specifically advertised to the public as an opportunity to provide input on the adequacy of the stormwater program.

**NOTICE OF PUBLIC MEETING**

The DuPage County Stormwater Management Planning Committee will hold a public meeting as part of their regularly scheduled meeting on Tuesday, February 6, 2018 at 7:30 a.m. in the County Board Room at 421 North County Farm Road, Wheaton, Illinois to allow the public to provide input as to the adequacy of the DuPage County Water Quality Program. This meeting is being held pursuant to Illinois Environmental Protection Agency Permit No. ILR40 Part IV, Section B. 2. c. Comments will be limited to 3 minutes. IEPA Permit No. ILR40 includes the following components:

- Public Education and Outreach on Water Quality Topics
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Construction Site Erosion and Sediment Controls
- Post-Construction Best Management Practices for Water Quality
- Pollution Prevention and Good Housekeeping for Municipal Operations
- Water Quality Monitoring Program

The full DuPage County Stormwater Management Program Plan can be found at: [http://www.dupageco.org/EDP/Stormwater\\_Management/Water\\_Quality/54206/](http://www.dupageco.org/EDP/Stormwater_Management/Water_Quality/54206/)  
Published in Daily Herald January 26, 2018 (4491987)

Official minutes from the Public Meeting are provided below.



**DU PAGE COUNTY  
STORMWATER MANAGEMENT COMMITTEE  
FINAL SUMMARY**

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February 6, 2018

Planning Committee

7:30 AM

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COUNTY BOARD ROOM  
421 N. COUNTY FARM ROAD  
WHEATON, IL 60187

**1. CALL TO ORDER**

7:30 AM meeting was called to order by Chair James Zay at 7:35 AM.

**2. ROLL CALL**

PRESENT: Pojack, Anderson, Brummel, Hart, Noonan, Pulice, Yusuf (7:37 AM), Zay  
ABSENT: Coyne, Fichtner, Grant, Tully

Member Yusuf arrived at 7:37 AM.

**3. PUBLIC COMMENT - PUBLIC COMMENT IS LIMITED TO THREE  
MINUTES PER PERSON**

There was no regular Public Comment.

Member Yusuf arrived at 7:37 AM.

**A. Public Meeting - Regional Water Quality Program**

MaryBeth Falsey, Wetlands Supervisor, announced Stormwater Management is holding a Public Meeting as a part of the departments IEPA issued ILR40 Permit. The most recent update required an annual Public Meeting in order for the public to provide input on our program. This is being held on behalf of DuPage County as well as several of the municipalities which have partnered with the us. Ms. Falsey gave a through overview of the Permit Update.

**B. Discussion**

MaryBeth Falsey opened the floor up for Public Comment on the Regional Water Quality Program.

Beverly Jaszczowski, representing SCARCE, announced SCARCE currently has 10 schools or public institutions working on the Water Quality Flag. She thanked Stormwater for all of the Water Quality Educational Programs available.

Bill Shields, Supt. of CCSD#93, mentioned all the Water Quality Grants the School District has been awarded thru the program, and how grateful the District is for this opportunity.

The following Stormwater Management Planning Committee meetings were held during the reporting year:

- March 7, 2017

- April 4, 2017
- May 2, 2017
- June 6, 2017
- July 11, 2017 Cancelled
- August 1, 2017
- September 5, 2017
- October 3, 2017
- November 7, 2017
- December 5, 2017
- January 2, 2018
- February 6, 2018 \*Advertised for Public Input on Program

Official minutes and agendas for all meetings can be found at: <http://www.dupageco.org>

**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 2):**

*Develop and disburse 1 assessment per year.*

**Status:**

Surveys were distributed to attendees of the following events:

- Pollution Prevention Seminar for MS4 Communities
- Green Infrastructure Seminar for MS4 Communities

DuPage County staff maintained the “Citizen Reporter App” which provides citizens the opportunity to participate in the water quality program by identifying areas for water quality improvements. By using the app, citizens can report water quality issues such as erosion, stream blockages, algae, dumping, sediment, garbage, and other water quality issues. The Citizen Reporter App can be accessed at:

<https://gis.dupageco.org/CitizenReporter/>

From March 2017- March 2018 a total of 41 reports were received through the Citizen Reporter App. Reports included observations on stream erosion, stream blockage reports, illicit discharges, and flooding concerns.

**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 2):**

*Involve at least 420 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 39 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 five groups are qualified for signs. This year we had 408 volunteers remove 2,722lbs of trash from the rivers and streams.

Our kickoff workshop was held on September 28, 2017 at the Forest Preserve District of DuPage County's Urban Stream Research Center. There were 17 people registered for the event and two participants adopted a stream section along the West Branch DuPage River and a West Branch Tributary.

**2017 Adopt-A-Stream Statistics**

- Number of Volunteer Groups: 39
- Number of Volunteers: 408
- Number of bags of trash: 296
- Estimated pounds of trash: 2,722lbs.

**Conservation @ Home, Conservation @ Work, and Conservation in Our Community**

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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. DuPage County has a contract with The Conservation Foundation whose staff conducts evaluations and certifications of residential properties, school campuses and business properties throughout the county. TCF also provides information and resources for planting and maintaining certified properties and promotes the program through presentations and partnerships. Twenty-seven (27) homes were certified this year. Another 28 homes are in progress sites for certification in the Conservation @ Home program. The Conservation in Our Community Program provides additional services, such as garden tours, native plant sales, and similar programs unique to each community. This program is being provided in Carol Stream, Downers Grove, Elmhurst, Lisle, Naperville, Warrenville, Glen Ellyn, Glen Ellyn Park District, and Westmont. This year North Central College's maintenance facility, DuPage Unitarian Church, and St. Francis Liberal Catholic Church were certified through these programs.

In conjunction with the Conservation @ Home program, the rain barrel program has been very successful. Three hundred fifty-five (355) rain barrels have been distributed throughout the county. The rain barrel programs and promotions are occurring in the following DuPage County communities: Addison, Aurora, Carol Stream, Downers Grove, Glen Ellyn, Elmhurst, Lisle, Westmont, Downers Grove, Wheaton, West Chicago, Naperville, Aurora, Lisle, and Westmont. 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. Brochures and information on how to purchase rain barrels are provided in the DuPage County Stormwater Management offices.

### **2017-18 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 was one school group, two Eagle Scouts, two scout groups, and the Village of Westmont involved in the storm drain program. This past year we almost doubled the program from the previous reporting year with 118 participants in the Storm Drain Stenciling program and 804 storm drains stenciled.

#### **Volunteer Statistics**

- Number of Participants: 118
- Number of door hangers posted: 494
- Number of drains stenciled: 804
- Communities Stenciled: Darien, Downers Grove, Naperville, Westmont
- Communities continuing permanent drain covers: Addison, Bloomingdale Township, Bolingbrook, Elmhurst, Glen Ellyn, Lisle, Warrenville, Westmont, Wheaton

### **2017 River Sweep**

Since the inception of the River Sweep Program there have been more than 12,500 volunteers that have removed approximately 270 tons of debris. This year, despite heavy rains, more than 6 tons of debris was collected and 3.75 acres

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of land were restored to native habitat by over 600 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 3.3 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.

2017 DuPage River Sweep

Date of Event: May 20, 2017

Number of Participants: 602 volunteers

Area Covered: Approx. 63 miles

Tons of Litter Removed: Approximately 622 tons

- West Branch -39.9 miles
  - Carol Steam - 17.4 miles
  - Naperville – Burlington FP – 1 mile
  - Naperville – North Central College – 2 miles
  - Naperville – Downtown – 1 mile
  - Naperville-McDowell Grove FP - 2 miles
  - Naperville-Springbrook - 1 mile
  - Warrenville, St. Charles Rd. to Blackwell - 12 miles
  - Warrenville-Kleinwachter - 1 mile
  - Warrenville – West DuPage Woods FP – 1 mile
  - West Chicago – Kress/ Preston Creeks – 1.5 miles
- East Branch/ Salt Creek -23.25 miles
  - Addison - Salt Creek - 1 mile
  - Bolingbrook, Hidden Lake - 3.5 miles
  - Darien-Ward's Creek -.5 miles
  - Downers Grove – Dunham & Lemont Rd. – 1 mile
  - Downers Grove - Maple Grove F.P. – 1 mile
  - Downers Grove – Prentiss Creek – 1 mile
  - Downers Grove – St. Joseph Creek – 1 mile
  - Glen Ellyn - Churchill Woods - 1 mile
  - Glen Ellyn – East Branch – 1 mile
  - Itasca, Springbrook Creek - 2 miles
  - Lisle, Community Park, Hitchcock Woods - 1.25 miles
  - Lisle, Morton Arboretum/Hidden Lake - 1 mile
  - Oak Brook - 1 mile
  - Villa Park – 1 mile
  - Westmont – 1 mile
  - Woodridge-Greene Valley - 3 miles

**CHANGE Hours**  
ON  
**MAY 20TH**  
9:00A M-NOON

**RIVER SWEEP 2017**

Find out how you can make a positive change by helping to clean-up and restore our local waterways.

*sponsored by*

THE CONSERVATION FOUNDATION  
DUPAGE COUNTY  
WM WASTE MANAGEMENT

Since 1972

www.theconservationfoundation.org/sweep

*register today at:*

**DuPage County River Sweep**

105404 Knoch Knolls Road  
Naperville, IL 60565

**The Conservation Foundation**

Since 1972

45 YEARS OF SERVICE

RESERVED BY THE CONSERVATION FOUNDATION

PERMITTED  
OAK PARK IL  
PAID  
US POSTAGE  
FIRST CLASS  
PERMIT 85

**Community Liaisons (continued)**

Itasca	Fred Maier fmaier@itasca.com (630) 228-5652
Lisle	Marilyn Siroce msiroce@villageoflisle.org (630) 271-4107
Lombard	Dave Coorman dcoorman@villageoflombard.org (630) 620-5765
Naperville	Jan Roehll jroehll@theconservationfoundation.org (630) 428-4500, Ext. 121
Oak brook	Bonnie Gibellina bgibellina@oakbrookparks.org (630) 645-9544
Oakbrook Terrace	Craig Ward cward@oakbrookterrace.net (630) 941-1651
Plainfield	Jonathan Proulx jproulx@plainfield.com (815) 609-6139
Villa Park	Robert Wagner villagreen1@aol.com (630) 279-3499
Warrenville	Roy Zeimer rziemer@comcast.net (630) 836-0086
West Chicago	Jessie Felix jfelix@goparks.org (630) 293-6928
Wheaton	Rob Speil rspeil@wheatonparks.org (630) 510-4970
Winfield	Gary Bernard winfieldriverwalk@gmail.com (630) 462-6072
Wood Dale	Steve Krych skrychwd@gmail.com (630) 400-6926
All other areas	Jan Roehll jroehll@theconservationfoundation.org (630) 428-4500, Ext. 121

After you receive your volunteer packet via email, please contact your Community Liaison below to verify the date, meeting location and supply details.

For areas not listed, contact:  
**The Conservation Foundation**  
(630) 428-4500 x 121

**Community Liaisons**

Addison	Ron Remus RRemus@addison-il.org (630) 620-2020
Bartlett	Sara Cooper bartlettionsclub@yahoo.com (630) 200-0217
Bloomington	Joe Fratt joefratt@bloomingtonparks.org (630) 529-7233
Bolingbrook	Chris Hanley chanley@bolingbrookparks.org (630) 910-2303
Carol Stream	Danna Hawco dhawco@carolstream.org (630) 871-6220
Downers Grove	Daniel Carlsen dcarlsen@downers.us (630) 434-6811
Glen Ellyn	Renee Frigo rfrigo@gepark.org (630) 858-2462 ext.151
Hanover Park	Karen Daulton Lange KDaultonLange@hpsil.org (630) 823-5650

(continued on next page)

# CHANGE Flows RIVER SWEEP 2017

Join the fun  
**Saturday,  
May 20th (9:00  
a.m. to noon).**  
Register today with  
family, friends and neighbors and be part of  
this community tradition.

The DuPage County River Sweep is an annual  
clean-up event that encourages citizens to  
improve local waterways by removing debris  
and litter from a section of stream or pond.  
Supplies, technical support, snacks, water and  
trash pickers will be provided by sponsoring  
organizations.

The River Sweep is organized by The  
Conservation Foundation, a nonprofit  
organization, that is dedicated to preserving  
open space and natural lands, protecting rivers  
and watersheds, and promoting stewardship of  
the environment in northeast Illinois. Since the  
event was launched in 1991, more than 11,700  
volunteers have removed nearly 261 tons of  
garbage from DuPage County waterways.

The DuPage County River Sweep is supported  
by the **DuPage County Stormwater  
Management.**

**Restoration** -  
Is picking up trash not  
your bag? Help restore  
areas near streams  
by removing invasive  
plant species. It's easy!  
(see registration)

**Want to get on the  
water?**  
Log on to  
[www.theconservation  
foundation.org/sweep](http://www.theconservation<br/>foundation.org/sweep)  
and see details for  
watercraft training and  
rental information.

## Benefits are many!

- Make our streams and communities more attractive while improving water and stream bank quality.
- Provide a popular and constructive activity for your community, service-minded individuals and groups.
- Help improve water flow through the county, thus alleviating potential localized flood hazards.
- Remove potential hazards for fish and other wildlife.
- Have fun while getting some exercise.

## How you can help the river:

- Coal-tar based sealcoat contains chemicals that are harmful to humans and the environment. Skip driveway sealing or use asphalt-based or latex sealants.
- Consider installing or retiling impervious asphalt with permeable pavers, porous concrete or traditional gravel.
- Sweep driveways instead of using precious water to send dirt, motor oil, fertilizer and animal waste into our rivers and streams via storm drains.
- Fertilize once in the fall, that's all! Avoid applying before a rainy day.
- Dispose of used motor oil at a hazardous waste collection event or take care when changing your motor oil.

## Additional Sponsors:



## How to register

- After your registration is confirmed, we will get you in contact with a Community Liaison. Your Liaison will coordinate the volunteer activities at a certain stretch of stream the day of the Sweep. They will determine where you will meet and will oversee all your needs on the day of the Sweep (see back for Liaison list).
- Whether you are leading a group or are an individual volunteer, you will receive a packet of materials via email. It will include a Group Coordinator's Manual to help you organize your day, to guarantee supplies for your group of 10+ people be sure to provide a one month notice.
- Also included in the packet will be waiver forms to be filled out by every participant. Complete and provide your waiver to your Community Liaison or Group Coordinator the day of the Sweep.

## For more information contact:

**The Conservation Foundation**  
[630] 428-4500 x 121  
OR  
proehl@theconservationfoundation.org  
**Registration online at:**  
[www.theconservationfoundation.org/sweep](http://www.theconservationfoundation.org/sweep)  
*We look forward to seeing you at  
River Sweep 2017!*

2017 DuPage County River Sweep Registration Form

Indicate if you are a group or individual and your preferred type of volunteer participation. Email, fax or mail your form to the address below.

Step #1  Group  Individual  
Step #2  Sweep clean up  Restoration (select sites available - see website)  Both

Name \_\_\_\_\_  
Organization \_\_\_\_\_  
Group Contact \_\_\_\_\_  
Telephone Number(s) (\_\_\_\_\_) \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Address \_\_\_\_\_  
Preferred Community or Town \_\_\_\_\_  
Number of volunteers: adults \_\_\_\_\_ youth \_\_\_\_\_

Do you have canoes available to your group?  Yes  No  
If your organization would like to do a clean-up but have not selected a site, please contact me/us with suggestions, trash bags, pickers, grabbers, gloves \_\_\_\_\_  
If your organization will be unable to actively participate in the Sweep but I/we would like to schedule Storm Drain Stenciling in our area, enclosed (make checks payable to **The Conservation Foundation**).  
I would like to know more about the **Adopt-A-Stream** program.

Return form to: [proehl@theconservationfoundation.org](mailto:proehl@theconservationfoundation.org) or  
The Conservation Foundation Attn: River Sweep 10504 Knoch Knolls Road Naperville, IL 60565 FAX: (630) 428-4599



# SAVE *the* DATE

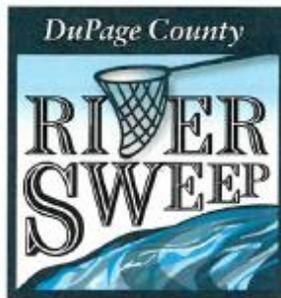
SAT. **MAY 20<sup>th</sup>**, 2017  
9:00 AM - NOON



Addison students at work.



Cleanup success in Lombard.



2017

## CHANGE *Flows*

Find out how you can make a positive change by helping to clean-up and restore our local waterways.

For details go to

[www.theconservationfoundation.org/sweep](http://www.theconservationfoundation.org/sweep)

Sponsored by:



Boy Scout Troop 80 manages restoration.





## DuPage River Sweep 2017 Register Today

Saturday  
May 20,  
9:00-Noon

Mark your calendar today for **Sat. May 20th (9:00-noon)** and join in on a wonderful tradition. It's simple. Community Liaisons are ready to welcome you.



The DuPage River Sweep is gearing up for another year of great times. There were over 800 volunteers who made an impact on county waterways. More than 9 tons of trash was collected and 72 miles of shoreline were swept. That's fantastic!

It's easy to get started for Sweep '17. Details are available at [www.theconservationfoundation.org/sweep](http://www.theconservationfoundation.org/sweep) and in the attached brochure. Pass this along to your friends, colleagues, clubs, religious organizations and students to help set a new record!

In partnership,

*Jan Roebll*

DuPage County Program Director



### **Register Today**

Questions—Contact [jroebll@theconservationfoundation.org](mailto:jroebll@theconservationfoundation.org) or  
(630) 428-4500 x121

**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 2):**

*Complete the storm sewer atlas for 60% of DuPage County.*

**Status:**

DuPage County Stormwater staff continues to work with townships, municipalities, and other county departments to update the storm sewer atlas with current storm sewer locations. The following updates were completed within the reporting year:

<b>Agency</b>	<b>Date</b>
Village of Burr Ridge - received data	11/8/17
Village of Hanover Park – updated to include Cook County and DuPage data	6/12/17
Village of Bartlett – updated to include Cook County and DuPage data	6/30/17
Updated Clarendon Hills data	9/14/17
Compiled all municipal, township, and county data into one geodatabase	various
Incorporated storm sewer data into the Arc Collector App for mobile use	various

During the 2017-2018 reporting year, DuPage County Stormwater continued 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. In 2017 staff worked on creating a standard attribute set for the County. DuPage County Department of Transportation data will be updated to this format. Work began on this during the 2017-2018 reporting year.

### **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 2 & 3 in the prioritization process.*

**Status:**

After completing steps 1 and 2 in the DuPage County IDDE Program Technical Guidance outfall prioritization plan in 2016, we were scheduled to complete steps 3 and 4 in 2017. County staff adjusted the prioritization plan goal to complete outfall prioritization for the particular watershed that is scheduled for monitoring that year. Because East Branch DuPage River watershed is scheduled for outfall monitoring in 2018, outfall prioritization was completed for the East Branch using the following steps:

Step 3 – Determine which of the Reach Illicit Discharge Risk Factors and Subbasin Illicit Discharge Risk Factors are going to be used for prioritization

Step 4 – Gather data required to compute the Reach Illicit Discharge Risk Factors and Subbasin Illicit Discharge Risk Factors

Step 5 – Compute Reach Illicit Discharge Risk Factors

Step 6 – Compute Subbasin Illicit Discharge Risk Factors

Step 7 – Compute Subbasin Illicit Discharge Risk Scores

Step 8 – Create Prioritization Scoring Map and Table

Step 9 – Perform Critical Review

Step 10 – Review Prioritization

Illicit discharge risk factors that were used to determine priority outfalls were the following: industrial zoned outfalls; historical discharge complaints; twenty outfalls per stream mile; and areas of high nutrients, dissolved materials, or heavy metals not associated with POTWs as listed in the “Biological and Water Quality Study of the E. Branch DuPage River Watershed, 2014” by Midwest Biodiversity Institute Center for Applied Bioassessment & Biocriteria. Steps 6 and 7 were modified to score anything that met the criteria of an illicit discharge risk factor to be considered a priority outfall. Some factors were excluded in order to not classify the majority of outfalls as priority; for example, chloride levels are high throughout the watershed and therefore isn’t useful for IDDE prioritization. This process resulted in the classification of 171 priority outfalls out of a total of 786 MS4 outfalls in the East Branch DuPage River.

**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 2):**

*Distribute 11 letters, flyers, posters, brochures, or other public education tools.*

**Status:**

County staff has created 22 brochures and flyers for distribution as discussed earlier in the education and outreach section of this report. These publications are distributed at each event the County attends as an exhibitor (also discussed in education and outreach section). These documents are available on our website at:

[https://www.dupageco.org/EDP/Stormwater\\_Management/1163/](https://www.dupageco.org/EDP/Stormwater_Management/1163/)

**C7. Visual Dry Weather Screening****Goal:**

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

**Milestone (Year 2):**

*Inspect 15 percent of known outfalls.*

**Status:**

The Fox River and Des Plaines River tributaries were the target watersheds for the 2017/18 monitoring season. Fifty-four and twenty-four outfalls were visually inspected for illicit discharges in the Lower Salt Creek and West Branch DuPage River watersheds in addition to the scheduled 242 Fox River and Des Plaines River tributaries outfall inspections.

DuPage County staff continued using the ESRI Arc Collector app for outfall inspections. This allows us to track outfall inspections digitally, eliminating the need for paperwork. Outfall inspection and testing information is entered directly into the database, which is also linked to the outfall map. The storm sewer inventory 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 2):**

Chemically monitor 60% of outfalls releasing a suspected illicit discharge.

**Status:**

During monitoring of outfalls within the Salt Creek, West Branch, Fox River, Des Plaines River, and tributaries during dry weather periods (over 72 hours without rainfall over 0.1 inch), 38 were found to be releasing a suspect discharge and sampled. Most of the flowing outfalls had not observable indication of illicit discharges, such as color, odor, turbidity or floatables. The following table shows the water quality data for the 38 outfalls that were sampled out of the 320 inspected outfalls.

OUTFALLKEY	Inspection Date	Inspector	Located (Y/N)	Submerged	Discharge	Color	Odor	Turbidity	Floatables	pH (SU)	Temp (C)	Specific Conductance (uS/cm)	Salinity (ppt)	Ammonia (mg/L)	Surfactants (mg/L)	Fluoride (mg/L)
8929423-0750534	6/1/2017	sc cp	Y	No	Trickle	Clear	None	None	Algae	6					0	
8940044-0810193	6/5/2017	sc cp	Y	No	Trickle	Clear	None	None	Other	6	16	1810	0.9	0.21	2	
8940044-0810193	6/6/2017	sc cp	Y	No	Moderate	Clear	None	None	None						0.25	
8949617-0822488	6/6/2017	sc cp	Y	No	Moderate	Clear	None	None	None	7	16	2140	1.1	0.48	3	
8949782-0822402	6/6/2017	sc cp	Y	No	Trickle	Clear	None	None	None	7	16.1	1045	0.5		0.25	
9028281-0847798	6/12/2017	sc cp	Y	No	Trickle	Clear	None	None	None	7					0.25	0
9030311-0847626	6/12/2017	sc cp	Y	No	Trickle	Clear	None	None	None	7	18.9	2480	1.3		0.25	0
9047697-0846380	6/12/2017	sc cp	Y	No	Trickle	Other	Sewage	Cloudy	Algae	7	19.4	1054	0.5	0	1.25	
8949617-0822488	6/13/2017	cp kp	Y	No	Trickle	Clear	None	None	None	7	19.5	3380	1.3		0.25	0
8957276-0828532	6/13/2017	cp kp	Y	No	Trickle	Clear	None	None	None	7	19.7	2000	1		0.25	0
8996907-0863067	6/13/2017	cp kp	Y	Partially	Trickle	Clear	None	None	None	7	17.8	1288	0.6	0.25	0	
9012891-0860823	6/13/2017	cp kp	Y	No	Trickle	Clear	None	None	None	7	18.5	875	0.4		0.25	0
8988479-0864175	6/13/2017	cp kp	Y	No	Trickle	Clear	Sewage	None	None	7	20.7	952	0.5	0.83	0.5	
9361183-0506419	6/13/2017	MBF LS	Y	No	Moderate	Clear	None	None	None	7	19.7	1538			0.5	
9361293-0508852	6/13/2017	MBF LS	Y	No	Trickle	Clear	None	Cloudy	None	7	18.4	3435		0.57	1.5	
8943173-0877737	6/27/2017	cp mk	Y	Partially	Trickle	Clear	None	None	None	6	16.5	685	0.3		0.25	0
8936284-0883776	7/6/2017	sc cp	Y	No	Trickle	Clear	None	None	None	7	19.8	2730			0.25	
8887405-0901625	7/6/2017	sc cp	Y	No	Moderate	Clear	None	None	None	8	19.8	2645			0.25	

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8975176-0864373	7/6/2017	sc cp	Y	No	Trickle	Cle ar	Non e	None	None	7	21.4	752			0.25	
9361971-0519562	8/1/2017	sc cp	Y	Partially	Trickle	Cle ar	Non e	None	None	8	21.7	4450	2.4	0.04	0.5	
9345163-0528355	8/1/2017	sc cp	Y	No	Trickle	Cle ar	Non e	None	None	7	21.3	3311	1.7		0.25	0.23
9325004-0531416	8/1/2017	sc cp	Y	No	Trickle	Cle ar	Non e	None	None	7	20.1	1311	0.7		0.25	0.47
9129133-0823380	8/1/2017	AM	Y	No	Trickle	Cle ar	Non e	None	None	7	20	1272	0.6		0.25	0
9100806-0830169	8/10/2017	sc mk	Y	No	Moderate	Cle ar		None	None		21.6	679	0.3			0
9100777-0830228	8/10/2017	sc mk	Y	No	Moderate	Cle ar	Non e	None	None		22.1	709	0.3			0
9100723-0830193	8/10/2017	sc mk	Y	No	Trickle	Cle ar	Non e	None	None		21.5	370	0.2			0
8544339-0275770	9/25/2017	SC ls	Y	No	Moderate	Cle ar	Non e	None	None	7.5	19.5	1508	0.8		0.25	0.3
8565565-0270012	9/25/2017	SC ls	Y	No	Trickle	Cle ar	Non e	None	None	7	19.1	1759	0.9		0.25	0.4
9340610-0897113	9/27/2017	sc am	Y	No	Trickle	Cle ar	Non e	None	Algae	6	20.4	781	0.4		0.25	0.7
8562006-0265239	10/3/2017	sc lc	Y	No	Trickle	Cle ar	Non e	None	Algae	7	19.4	2032	1		0.25	0
9395732-0883160	10/19/2017	MBF LC	Y	No	Trickle	Cle ar	Non e	None	None	7					0	1.4
8641185-0978803	10/19/2017	sc le	Y	No	Moderate	Cle ar	Non e	None	None	6.5	16.7	1126	0.6		0.25	0.5
9280141-0149569	10/31/2017	SC lc	Y	Partially	Moderate	Cle ar	Non e	None	None	7	10.7	667	0.3		0.25	0.1
8643449-0826960	11/9/2017	sc lc	Y	No	Trickle	Cle ar	Non e	None	None	7	10.1	1279	0.6		0.25	0.1
8644310-0826899	11/9/2017	sc lc	Y	No	Trickle	Cle ar	Non e	None	None	6.5	8.4	1940	1		0.25	0.3
9395728-0882254	11/9/2017	sc lc	Y	No	Moderate	Cle ar	Non e	None	None	6	12.3	397	0.2		0.25	
9396134-0882327	11/9/2017	sc lc	Y	No	Moderate	Cle ar	Non e	None	None	6	8.1	1288	0.6		0.25	0
9431995-0125341	11/28/2017	SC LC	Y	Partially	Substantial	Cle ar	Non e	None	None	7	7.5	879	0.4		0.25	0

**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 2):**

*Review 105 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, reviews were conducted for Stormwater Permits, which contain wetlands, floodplain, over 2500 square feet of net new impervious area, or propose post-construction BMPs.

Stormwater Permits reviewed:	
Addison	1
Aurora	1
Bartlett	3
Batavia	
Bensenville	4
Bloomington	
Bolingbrook	
Burr Ridge	1
Carol Stream	
Chicago	
Clarendon Hills	1
Darien	3
Downers Grove	
DuPage, Unincorp.	99
Elk Grove	2
Elmhurst	5
Glen Ellyn	
Glendale Heights	4
Hanover Park	

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Hinsdale	
Itasca	8
Lemont	
Lisle	10
Lombard	9
Naperville	11
Oak Brook	
Oakbrook Terrace	
Roselle	1
St. Charles	
Schaumburg	
Villa Park	
Warrenville	
Wayne	1
West Chicago	16
Westmont	6
Wheaton	12
Willowbrook	
Winfield	1
Wood Dale	
Woodridge	
<b>Total:</b>	<b>199</b>

**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 2):**

*Thirty-five percent enforcement actions initiated, versus the total number of inspections performed per year.*

**Status:**

A total of 1534 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 105 enforcement cases were conducted during that time period, which is 6% 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 2):**

*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). Review and discussions continued into this reporting year. Staff determined the BMP section of the DCCSFPO will require an update. This revision is anticipated during the next reporting year in conjunction with revisions to the floodplain section.
- A subgroup to the DuPage County Municipal Engineers group was created to provide technical assistance and guidance materials. This subgroup generated sample specifications for a dry well, permeable paver system, and rain garden which has been made available online. The samples can be used as a template for the design of these practices on residential properties. The group is currently developing inspection checklists for long term maintenance and monitoring.

### 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 2):**

*Maintain 60% 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 41 properties throughout the county that have been planted with native vegetation and are managed as natural areas and naturalized stormwater facilities. A total of 140 inspections were conducted on these natural areas during the reporting year.

DuPage County's main government campus is located in Wheaton and is about 200 acres in size. Best management practices on the campus include:

- A new 16-acre riparian restoration project. Four stormwater ponds and three native gardens have buffers that are vegetated with native species.
- Two new wetland swales to treat runoff before it exits into Winfield Creek.
- A campus-wide tree survey was done to quantify the benefits of our tree assets, including stormwater and water quality. As a result of this effort and adopting a management plan, the campus is now an accredited Arboretum through ArbNet.
- The campus is implementing a multi-phase landscaping plan using native species. In the first phase, 175 trees and shrubs have been planted and 3.75 acres of turf grass has been converted to native groundcover. It is a goal of the project to bring awareness to the public and employees about the value and practical use of native species in the landscape.
- A turf grass pond will be converted to a wetland bottom pond in 2019 or 2020.

#### 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 2):

*Certify 35% of permit submittals.*

##### Status:

A total of 199 Stormwater Permits were submitted during the reporting year. Of these, a total of 98 permits which included post construction BMPs were approved by DuPage County during the reporting period, which constitutes 49%.

Stormwater Permits approved:	
Addison	1
Aurora	
Bartlett	2
Batavia	
Bensenville	2
Bloomington	
Bolingbrook	
Burr Ridge	
Carol Stream	
Chicago	
Clarendon Hills	
Darien	3
Downers Grove	
DuPage, Unincorp.	48
Elk Grove	
Elmhurst	1
Glen Ellyn	
Glendale Heights	2
Hanover Park	
Hinsdale	
Itasca	4

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Lemont	
Lisle	6
Lombard	5
Naperville	5
Oak Brook	2
Oakbrook Terrace	
Roselle	
St. Charles	
Schaumburg	
Villa Park	
Warrenville	
Wayne	
West Chicago	7
Westmont	3
Wheaton	6
Willowbrook	
Winfield	1
Wood Dale	
Woodridge	
<b>Total:</b>	<b>98</b>

**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 2):**

*Conduct 110 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. During the reporting year, 313 inspections were conducted by county staff. These inspections are conducted in unincorporated DuPage County as well as several municipalities. A total of 70 of these sites received sign off.

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

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

**Milestone (Year 2):**

*Train 85% of applicable employees and contractors involved in the management of public surfaces.*

**Status:**

On November 29, 2017, DuPage County Stormwater Management held a Green Infrastructure Seminar for MS4 Communities. 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. All participants received a certificate of attendance. The following municipalities were documented as registered.

<b>Municipality</b>	<b>Registered Attendees</b>
Addison	6
Addison Township	2
Bartlett	4
Bensenville	2
Bloomington	5
Burr Ridge	1
Carol Stream	1
Downers Grove	2
DuPage County	28
Elk Grove Village	1
Elmhurst	4
Glen Ellyn	3
Glendale Heights	2
Hanover Park	1
Hinsdale	2
Lisle	2
Lisle Township	1
Lombard	1
Milton Township	1
Naperville	4
Oak Brook	3
Villa Park	2
Warrenville	1
Wayne Township	1

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West Chicago	2
Westmont	2
Wheaton	1
Willowbrook	1
Winfield	1
Wood Dale	1
Woodridge	2
York Township	2
Other, consultants or unknown affiliation	34
<b>Total</b>	<b>126</b>

Previous seminars were recorded and a video link is provided to all agencies in attendance to share with new and seasonal employees as well as employees who were not able to attend in person.

**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 2):**

*30 staff members attending training each year.*

**Status:**

On April 5, 2017, DuPage County Stormwater Management held a Pollution Prevention Seminar for MS4 Communities. The county hosted the seminar which was free of charge to provide an opportunity for municipalities to receive training in Pollution Prevention in accordance with the annual training requirements of the ILR40. All participants received a certificate of attendance. The following municipalities were in documented as registered.

<b>Municipality</b>	<b>Registered Attendees</b>
Addison	5
Bartlett	1
Bensenville	1
Bloomington	4
Burr Ridge	1
Carol Stream	2
Darien	1
DuPage	17
Elmhurst	6
Glen Ellyn	3
Glendale Heights	2
Hanover Park	1
Hinsdale	1
Itasca	3
Lisle	1

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Lombard	1
Naperville	3
Oak Brook	1
Oakbrook Terrace	1
Roselle	1
Villa Park	1
Warrenville	1
West Chicago	3
Westmont	1
Wheaton	1
Willowbrook	1
Winfield	2
Wood Dale	1
Woodridge	1
Other, consultants, or unknown affiliation	42
<b>Total</b>	<b>110</b>

On September 27, 2017 DuPage County partnered with the DuPage River Salt Creek Workgroup in holding the Public Roads Deicing Workshop. This workshop was free of charge to provide an opportunity for municipalities to receive training in Pollution Prevention in municipal operations in accordance with the annual training requirements of the ILR40. Attendance included 149 registered participants, 11 presenters/staff, 6 committee members/guests, and 9 sponsors/exhibitors amounting in a total attendance of 175 individuals. All participants received a certificate of attendance.

On October 5, 2017, DuPage County partnered with the DuPage River Salt Creek Workgroup in holding the Parking Lots and Sidewalks Deicing Workshop. This workshop was free of charge to provide an opportunity for public and private facilities maintenance staff to receive training in reducing salt use and water quality impacts from chlorides. Attendance included 82 registered participants, 7 presenters/staff, 6 exhibitors/staff for a total of 95 individuals. All participants received a training certificate and participants who successfully completed the test are recognized on DuPage County Stormwater Management's Water Quality – Pollution Prevention/Good Housekeeping web page.

**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 2):**

*Remove 220 cubic yards of timber debris from drainageways.*

**Status:**

As shown in the table below, 22 blockages totaling approximately 430 cubic yards of debris were removed from DuPage County waterways during the reporting year.

<b>Waterway</b>	<b># of Blockages</b>	<b>Total Cubic Yards Debris Removed</b>
East Branch DuPage River	10	205
West Branch DuPage River	5	105
Salt Creek	7	120
<b>Total</b>	<b>22</b>	<b>430</b>

**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 (Year2):**

*5 corrections made in response to assessments.*

**Status:**

During the reporting year, DuPage County staff worked with Department of Transportation staff on updating the “Good Housekeeping” checklist for use by county, municipal, and township staff in order to self-assess operations and procedures at each facility. The checklist is updated regularly based on feedback from these agencies as well as to include any new requirements or best practices. While the latest updates have not yet been finalized, the checklist can be found here:

[https://www.dupageco.org/EDP/Stormwater\\_Management/Water\\_Quality/54206/](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 12):**

*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 completed 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 for which plans were completed are: St. Joseph Creek, Winfield Creek, Sawmill Creek, Kress Creek, and Klein Creek. All 5 watershed plans were completed and submitted to the IEPA for review and approved during the reporting year.

County staff continued working 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. The project, led by CMAP and partially funded by the 319 program is expected to be completed in 2018. The Lower Salt Creek Plan will then be submitted to the IEPA for review.

Progress was also made in several Flood Control Watershed Plans. These plans are intended to alleviate flooding issues throughout the County, however, water quality impacts are also considered during the planning process.

During the reporting year, County staff made progress in the Sugar Creek Watershed Plan (tributary to Salt Creek). This plan is expected to be reviewed by the Committee and brought for approval in 2018 during the next reporting year.

Staff also continued work on the Winfield Creek Watershed Plan. This is a Flood Control Plan which is separate from the Winfield Creek Water Quality Plan mentioned previously in this section. Water Quality and Engineering staff work closely during the planning process to ensure that these plans do not conflict and that they supplement one another. Upon approval, both plans will be combined into an overall flood control and water quality plan for the Winfield Creek Watershed.

## 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

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

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

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

The data collects as part of the bioassessment is processed, evaluated, and synthesized as a biological and water quality assessment of aquatic life use status. The assessments are directly comparable to previously conducted bioassessments such that trends in status can be examined and causes and sources of impairment can be confirmed, amended, or removed. A final report containing a summary of major findings and recommendations

for future monitoring, follow-up investigations, and any immediate actions that are needed to resolve readily diagnosed impairments is prepared following each bioassessment. The bioassessment reports are posted on the DRSCW at <http://drscw.org/wp/bioassessment/>. It is not the role of the bioassessments to identify specific remedial actions on a site specific or watershed basis. However, the baseline data provided by the bioassessments contributes to the Integrated Priority System that was developed to help determine and prioritize remedial projects (<http://drscw.org/wp/project-identification-and-prioritization-system/>).

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

#### Representativeness – Reference Sites

Data is collected from selected regional reference sites in northeastern Illinois preferably to include existing Illinois EPA and Illinois DNR reference sites, potentially being supplemented with other sites that meet the Illinois EPA criteria for reference conditions. One purpose of this data will be to index the biological methods used in this study that are different from Illinois EPA and/or DNR to the reference condition and biological index calibration as defined by Illinois EPA. In addition, the current Illinois EPA reference network does not yet include smaller headwater streams, hence reference data is needed to accomplish an assessment of that data. Presently thirteen (13) reference sites have been established.

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

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

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

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

## **FISH**

### **Methodology**

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

Samples from each site were processed by enumerating and recording weights by species and by life stage (y-o-y, juvenile, and adult). All captured fish were immediately placed in a live well, bucket, or live net for processing. Water was replaced and/or aerated regularly to maintain adequate D.O. levels in the water and to minimize mortality. Fish not retained for voucher or other purposes were released back into the water after they had been identified to species, examined for external anomalies, and weighed either individually or in batches. While the majority of captured fish were identified to species in the field, any uncertainty about the field identification required their preservation for later laboratory identification. Identification was made to the species level at a minimum and to the sub-specific level if necessary. Vouchers were deposited and verified at The Ohio State University Museum of Biodiversity (OSUMB) in Columbus, OH.

### **Results**

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

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

#### ***East Branch DuPage River***

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

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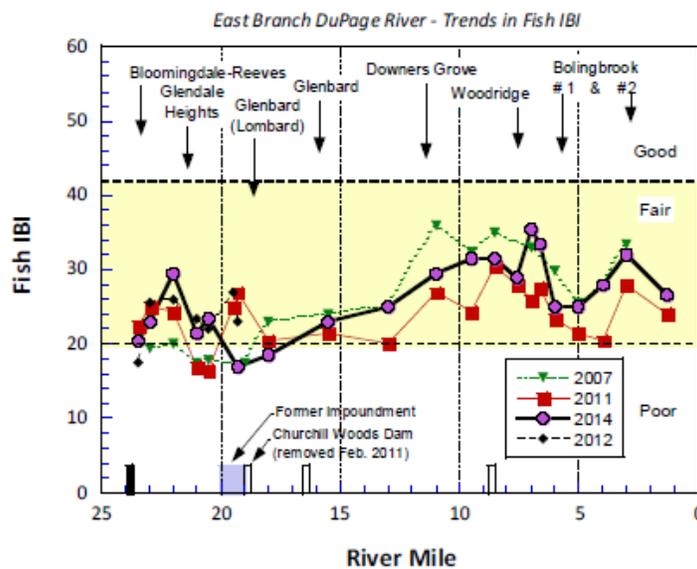
Prior to the modification of the Churchill Woods dam in 2001, fish assembles upstream of the dam, were essentially that of a pond and dominated by sunfish, bullheads, golden shiner, and mosquito fish. Downstream of the dam, the fish assemblage reflected more lotic, stream like conditions with populations of sand shiner, johnny darter, honeysuckle 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.

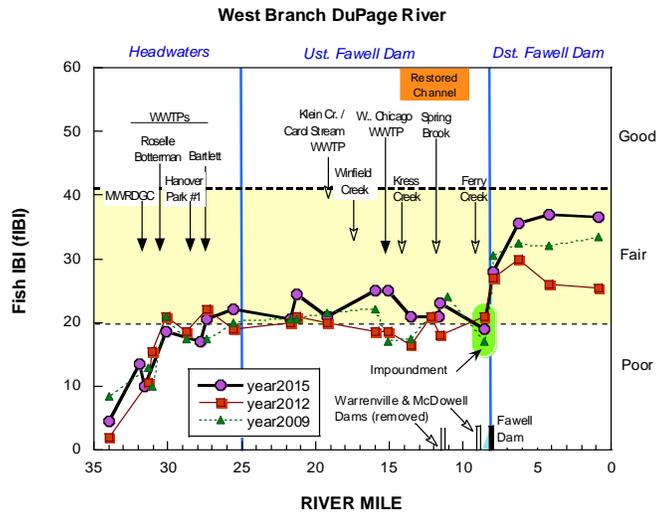
It should be noted that the Fawell dam is a barrier to several fish species. The DRSCW in cooperation with DuPage County and Forest Preserve District of DuPage County plans to modify the Fawell Dam to allow for fish passage. This project is expected to be completed by 2018.

**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.



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



*Salt Creek*

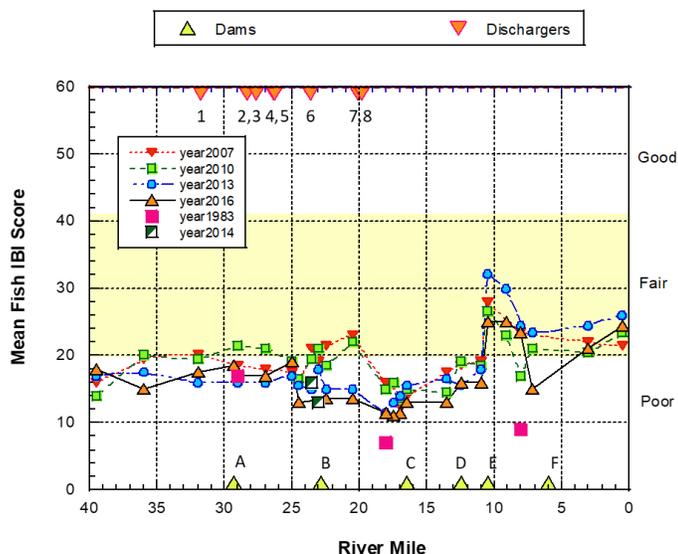
Fish assemblages sampled in Salt Creek mainstem in 2016 were consistently in poor condition upstream from the Graue Mill Dam and mostly fair downstream to the confluence with the Des Plaines River (Figure 3). This was similar to the pattern observed in 2013 although fIBI scores were slightly higher than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

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

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

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

**MACROINVERTEBRATES**Methodology

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

Results

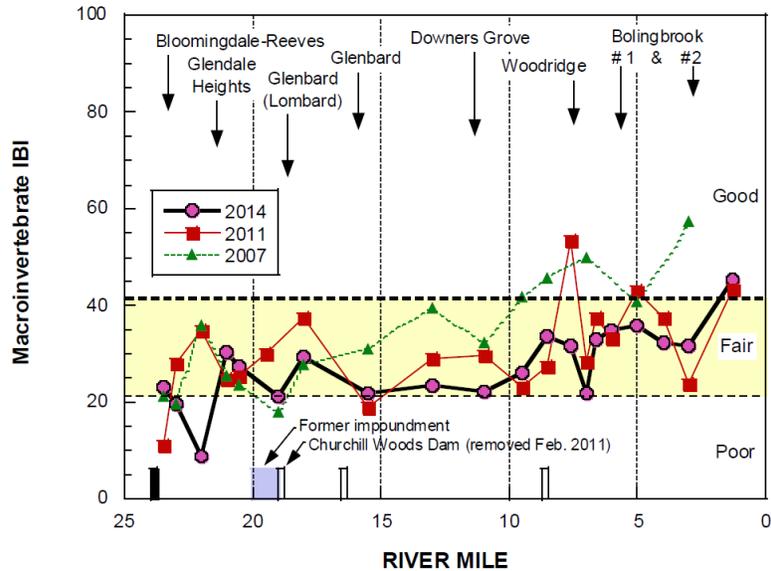
The macroinvertebrate sampling results presented in this report summarize the findings for the mainstem reaches of the East Branch DuPage River, the West Branch DuPage River and Salt Creek. Information on the tributaries and detailed analysis of all results can be found at <http://drscw.org/wp/bioassessment/>.

East Branch DuPage River

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

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**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.



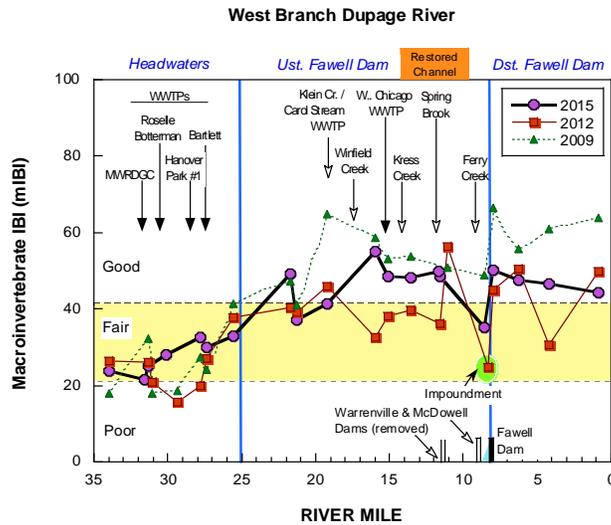
*West Branch DuPage River*

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.

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



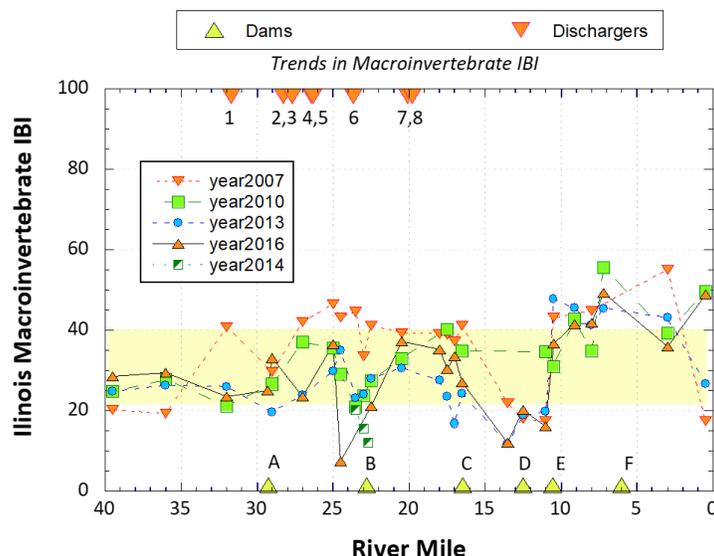
*Salt Creek*

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

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

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



## HABITAT

### Methodology

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

### Results

The QHEI data presented in this report summarize the findings for the mainstem reaches of the East Branch DuPage River, the West Branch DuPage River and Salt Creek. Information on the tributaries and detailed analysis of all results can be found at

<http://drscw.org/wp/bioassessment/>.

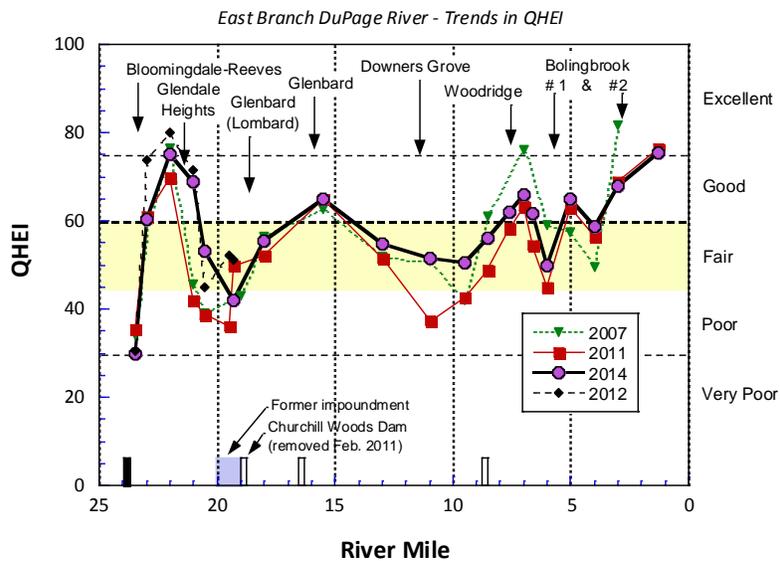
The physical habitat of a stream is a primary determinant of biological quality. Streams in the glaciated Midwest, left in their natural state, typically possess riffle-pool-run sequences, high sinuosity, and well-developed channels with deep pools, heterogeneous substrates and cover in the form of woody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

### East Branch DuPage River

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

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

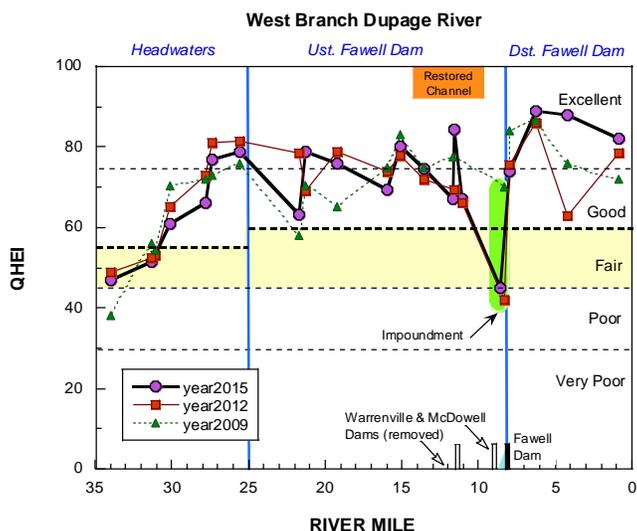
**Figure 7.** Qualitative Habitat Evaluation Index (QHEI) scores for the E. Branch DuPage River in 2007, 2011-12, and 2014 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). The shaded region depicts the range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



**West Branch DuPage River**

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

**Figure 8.** Qualitative Habitat Evaluation Index (QHEI) scores for the W. Branch DuPage River in 2009, 2012, and 2015. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). The shaded region depicts the range of QHEI scores where habitat quality is marginal and limiting to aquatic life. QHEI scores less than 45 are typical of highly modified habitat

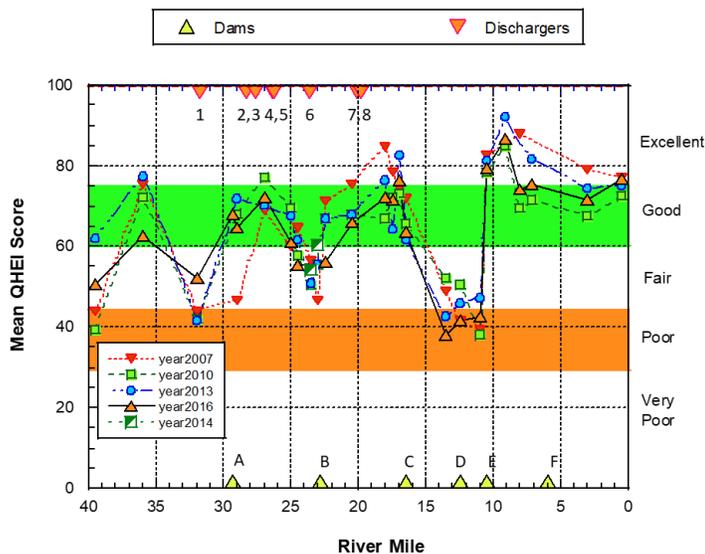


**Salt Creek**

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

In the 2016, the Oak Meadows Dam (dam B on Figure 9) was removed in a project sponsored by the Forest Preserve District of DuPage County, DuPage County Stormwater Management, and the DRSCW. Post-project sampling was completed in 2017. Post project QHEI increased at all sites with improvements in substrate, riparian, pool and riffle scores. Mean QHEI at the project location increased 12 points to 69.3 (or 68.5 if we discount SC35A, surveyed for QHEI post project only). All QHEI scores were within the “good” range (>60 QHEI points). The DRSCW is optimistic its QHEI goal of >70 will be reached as riparian vegetation at the site matures. Post-project monitoring will continue in 2018 and 2019.

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



**WATER QUALITY CHEMISTRY**

Methodology

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

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

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

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

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

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

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

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

## Results

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

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

### *East Branch DuPage River*

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

### *West Branch DuPage River*

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

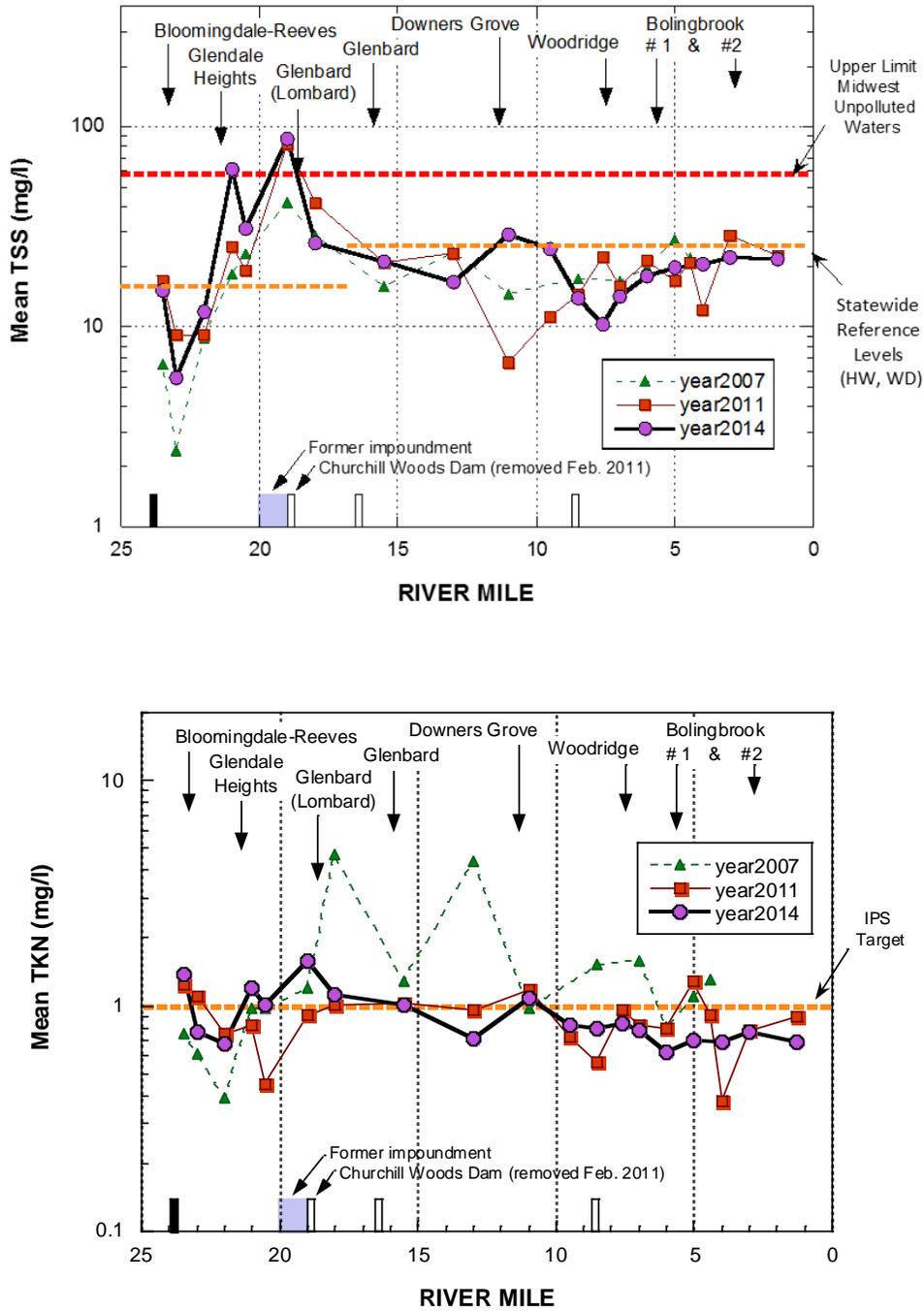
### *Salt Creek*

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

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Figure 10.

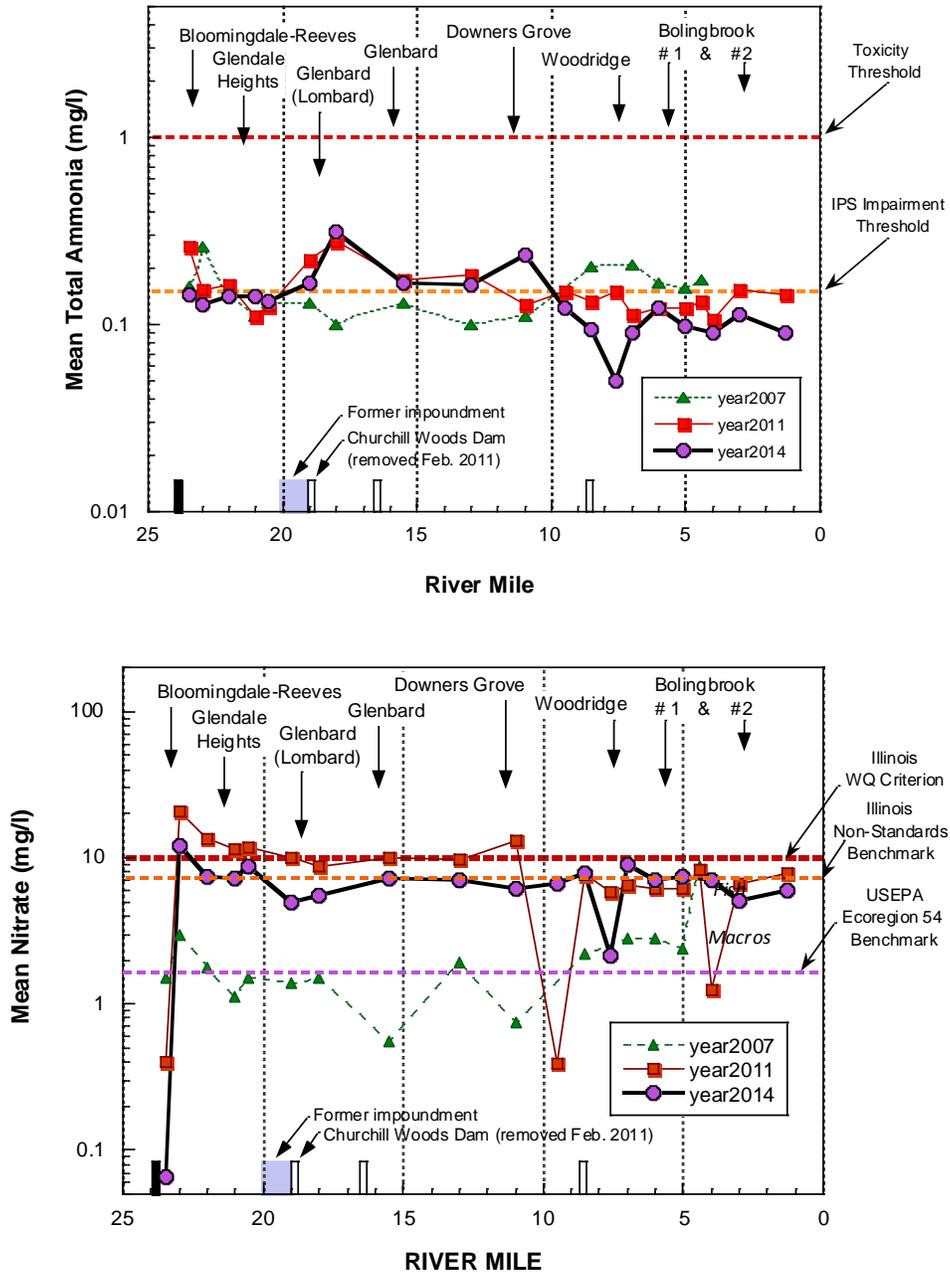
Concentrations of total suspended solids (top panel) and TKN (lower panel) from E. Branch DuPage River samples in 2007, 2011 and 2014 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). Red dashed lines shows the 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.



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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).



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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.

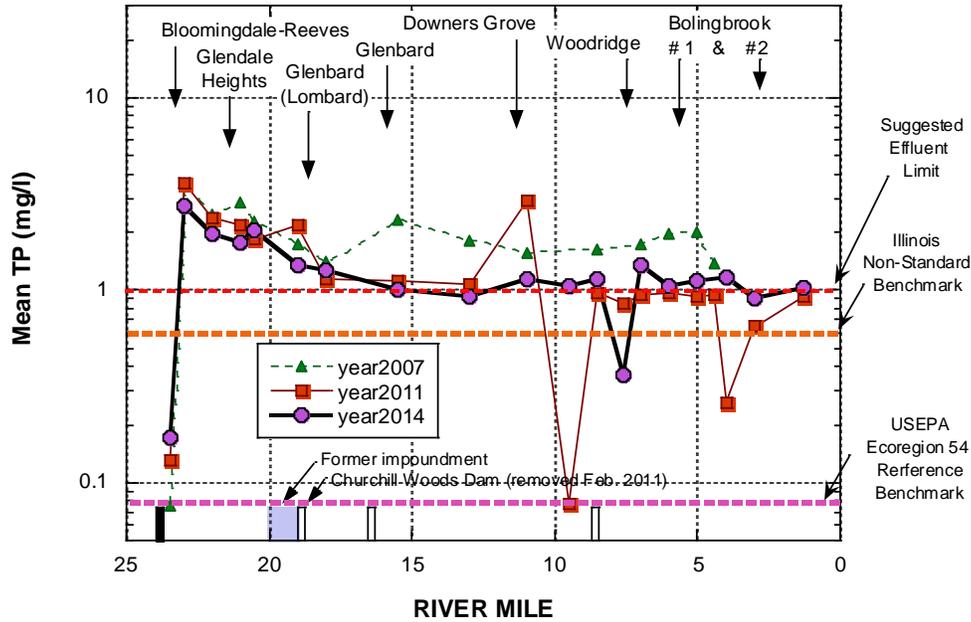
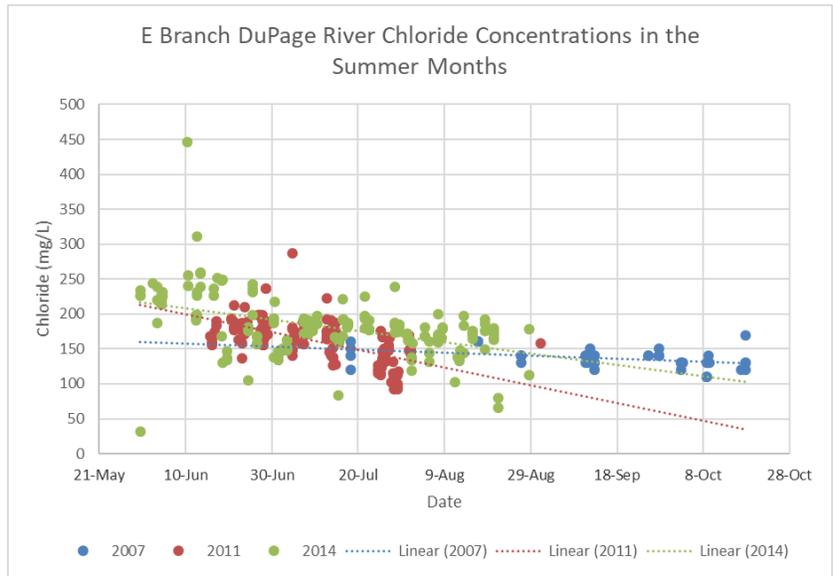


Figure 13.

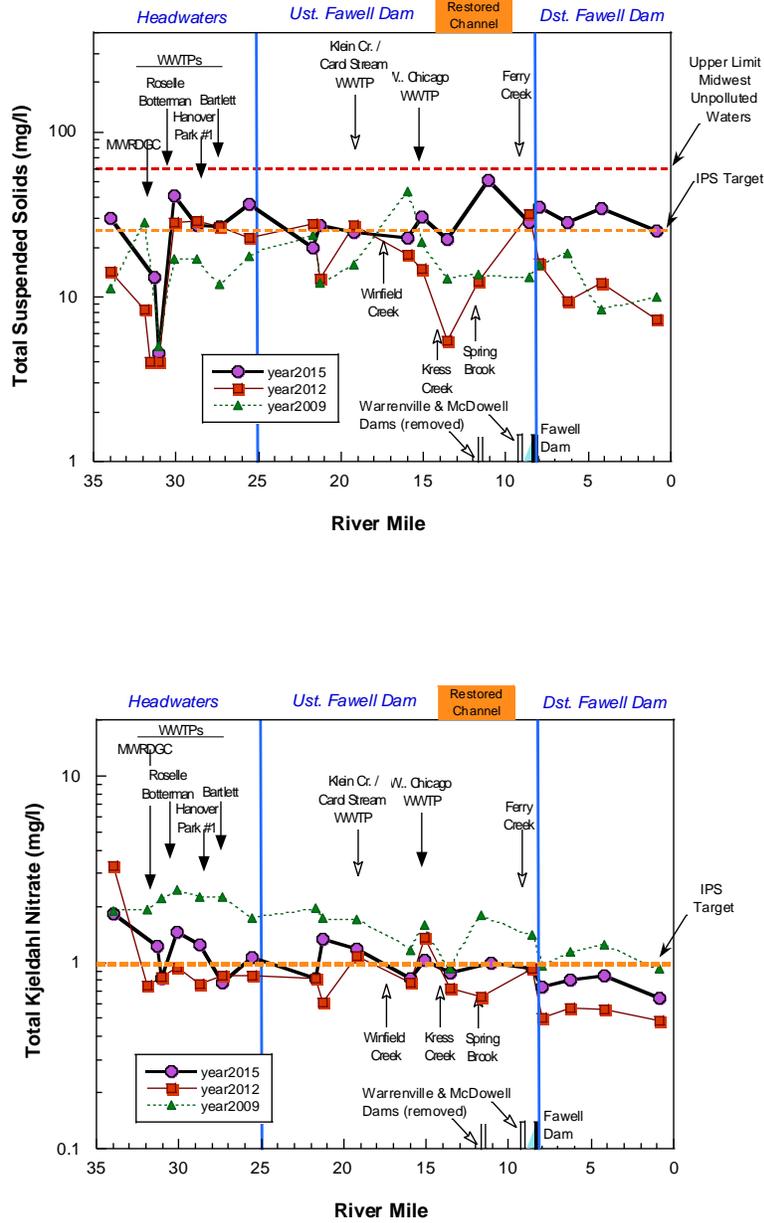
Chloride concentrations from the East Branch DuPage River in the summer of 2007, 2011 and 2014.



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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.



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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.

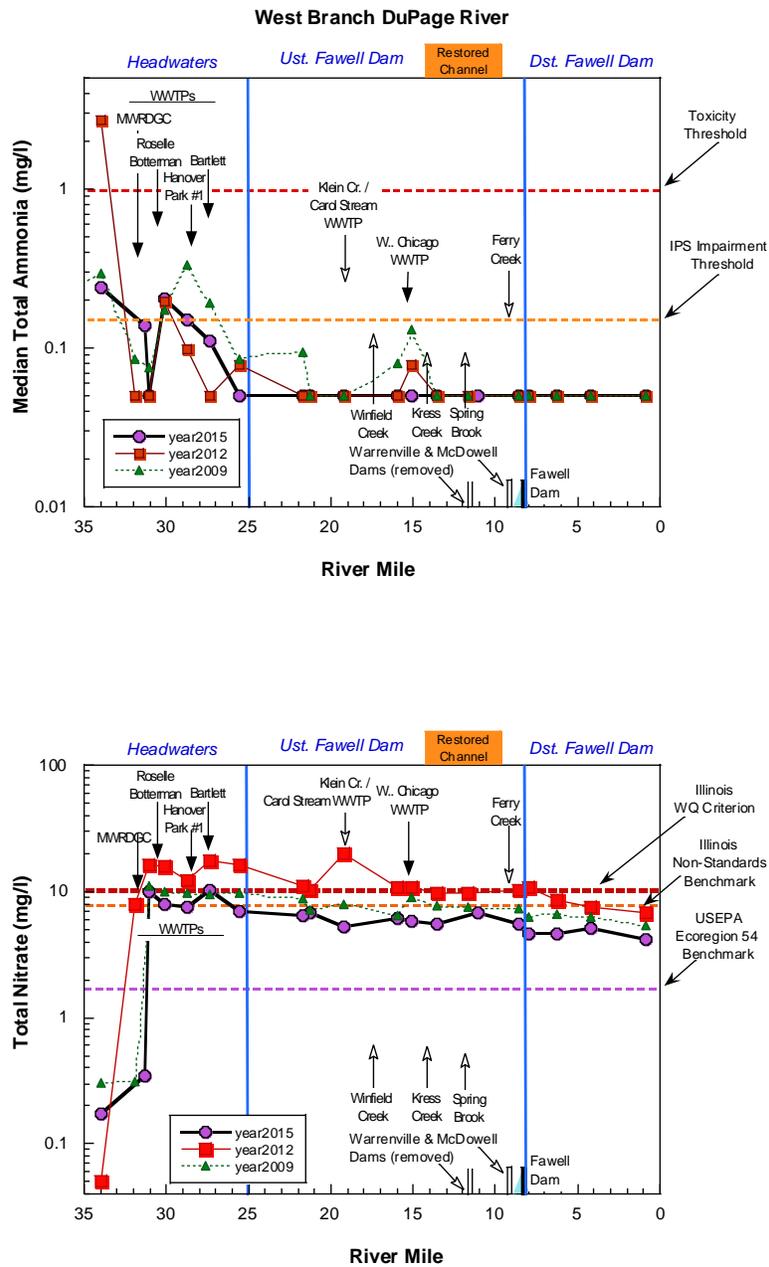
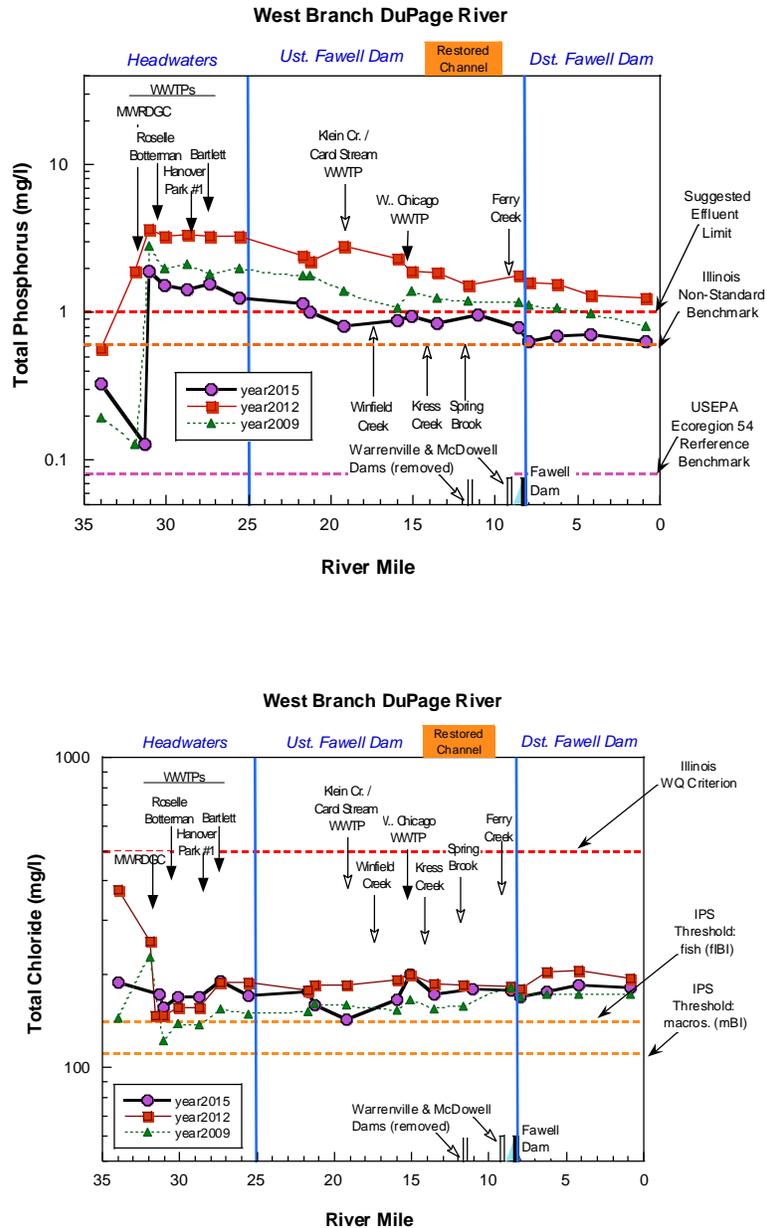


Figure 16.

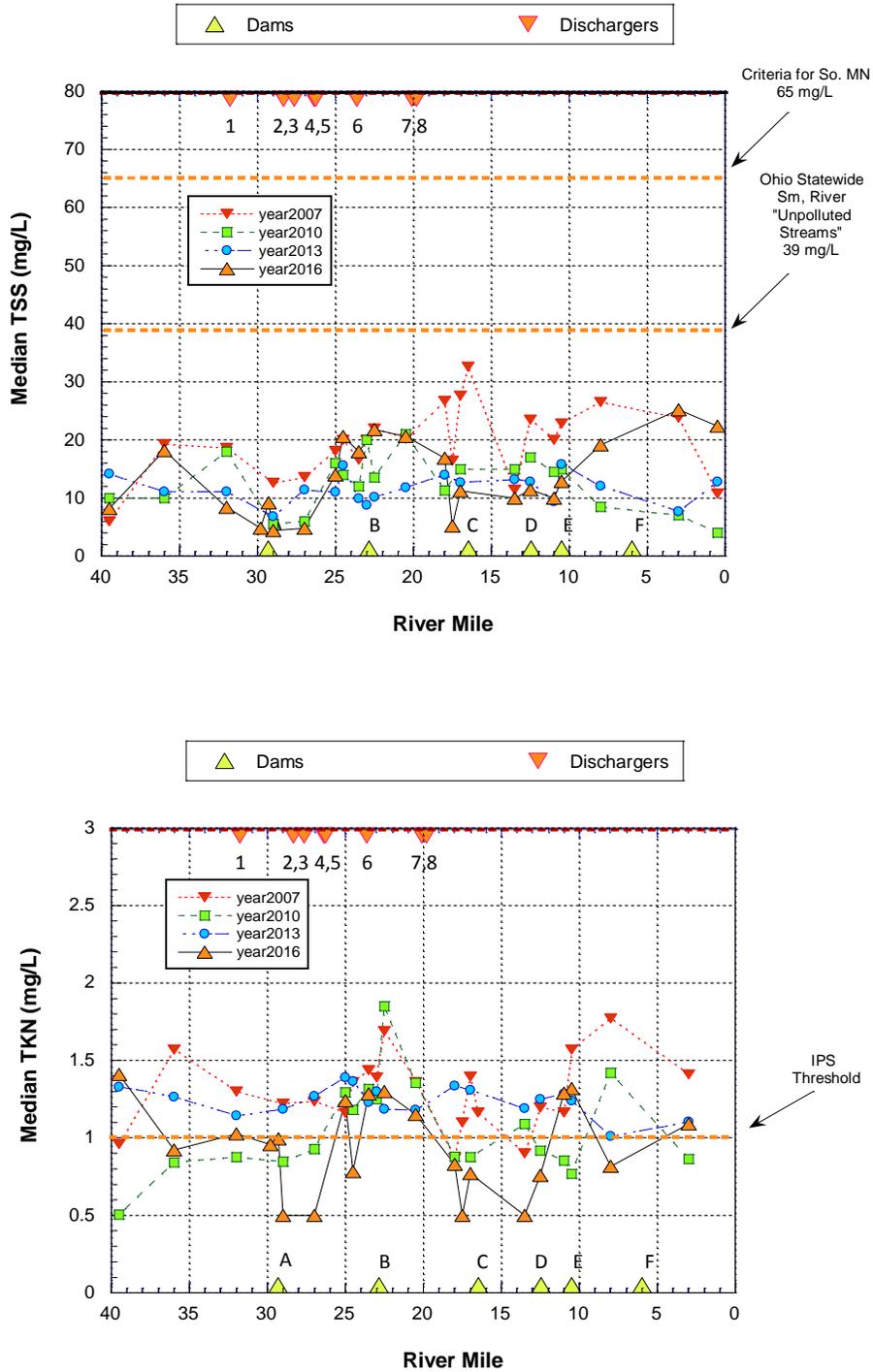
Concentrations total phosphorus (top panel) and chloride (lower panel) from W. Branch DuPage River samples in 2008, 2012 and 2015 in relation to municipal WWTP discharges. Bars along the x-axis depict mainstem dams or weirs (black bars are dams that impede fish passage). For phosphorus, orange dashed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



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Figure 17.

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



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Figure 18.

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

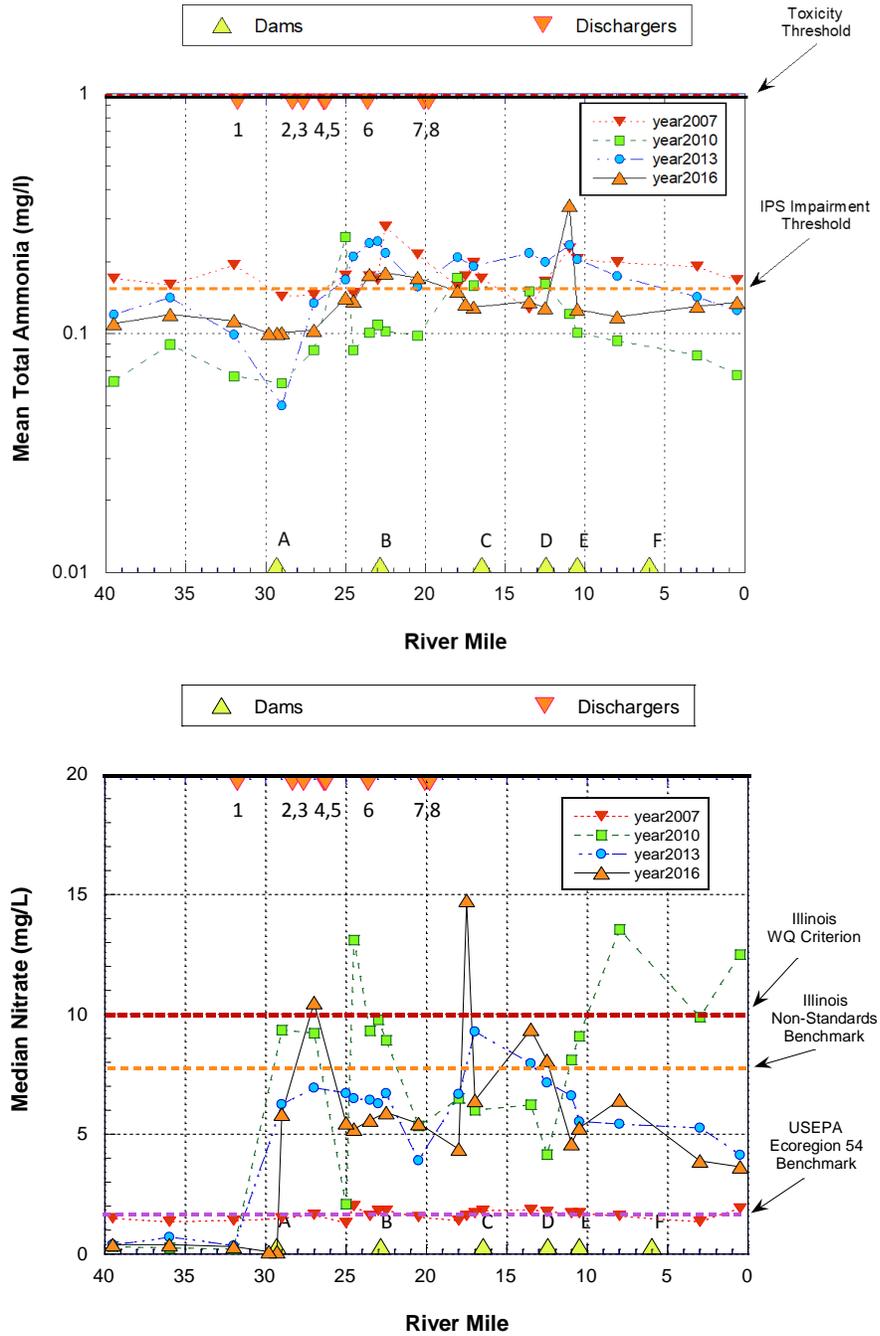
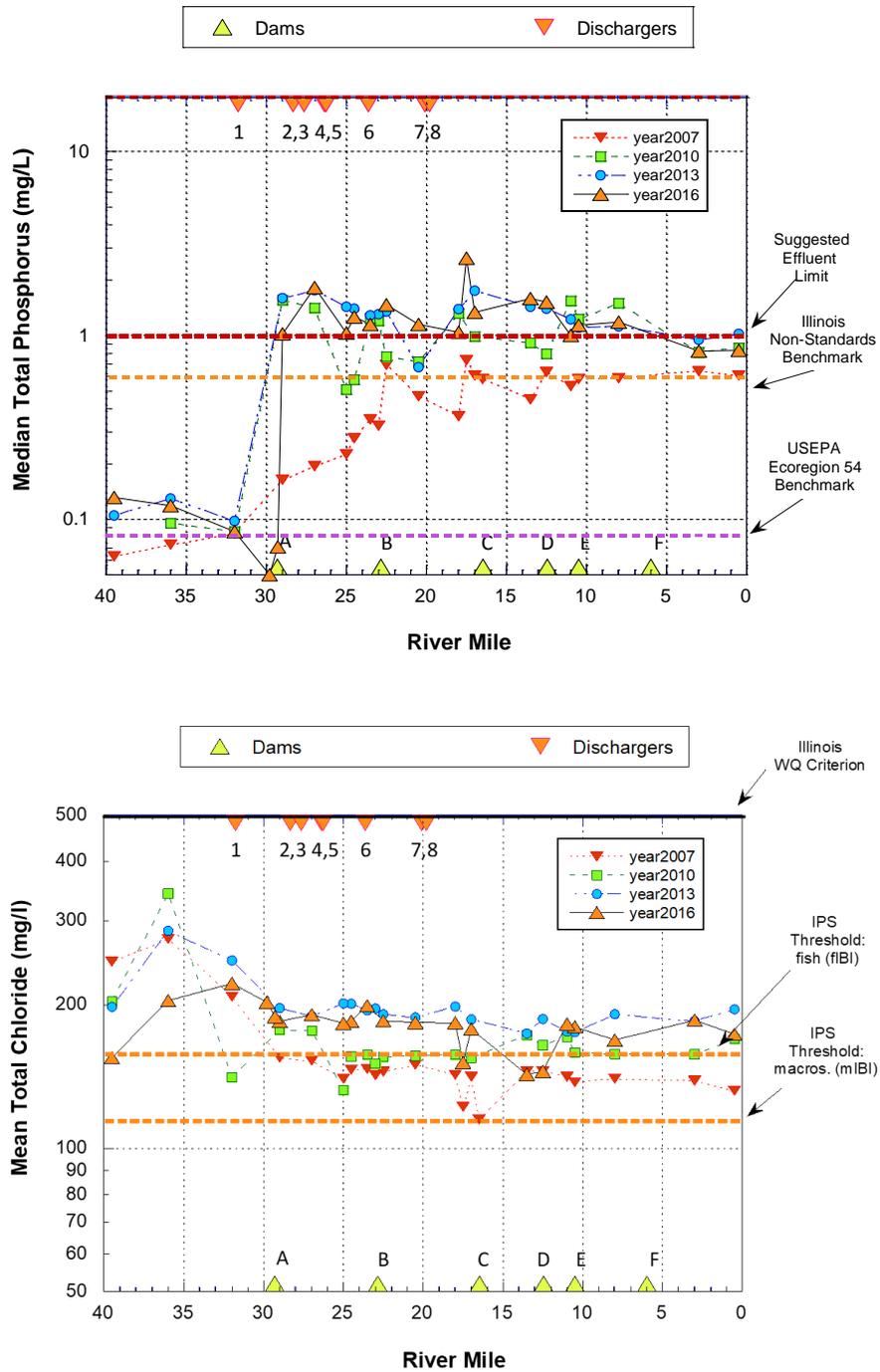


Figure 19.

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



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

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

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

### Sediment Chemistry Results

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

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

#### Background and Methodology

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

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

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

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

Typically, the continuous DO monitoring project includes two to three (2-3) sites on the West Branch DuPage River, four to five (4-5) sites of the East Branch DuPage River, and three to four (3-4) sites on Salt Creek. The

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

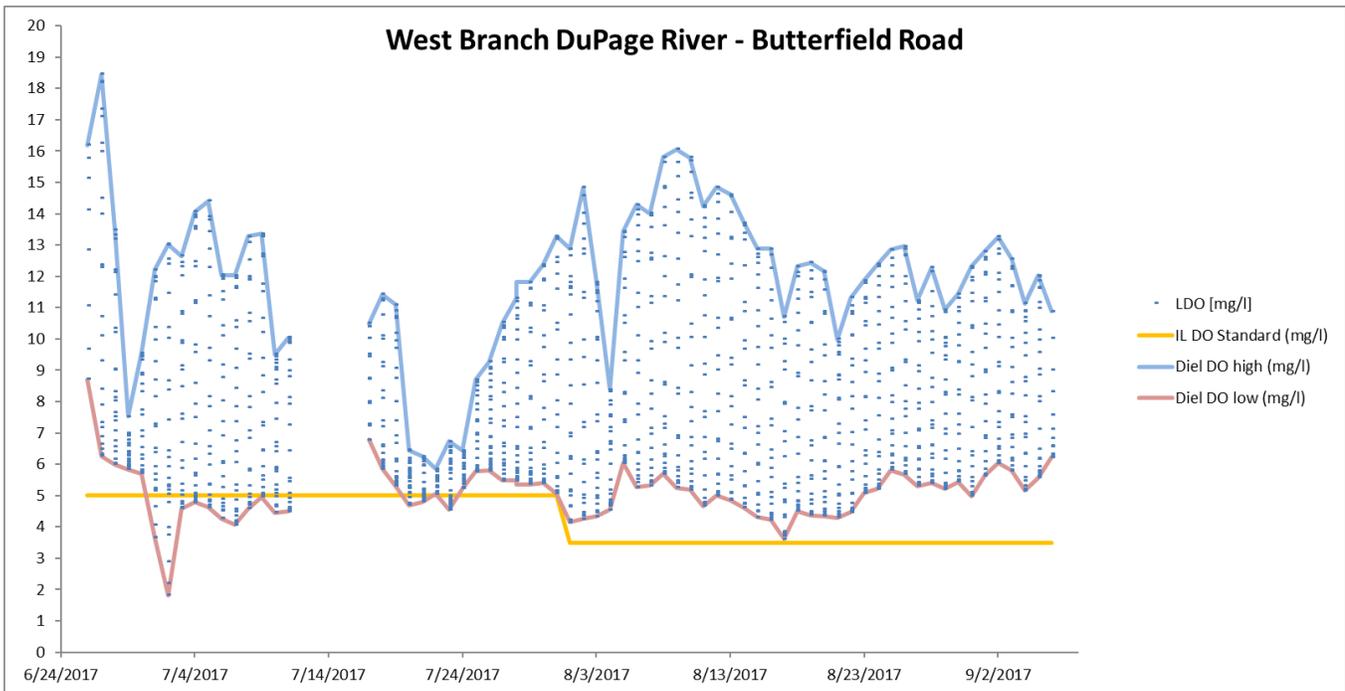
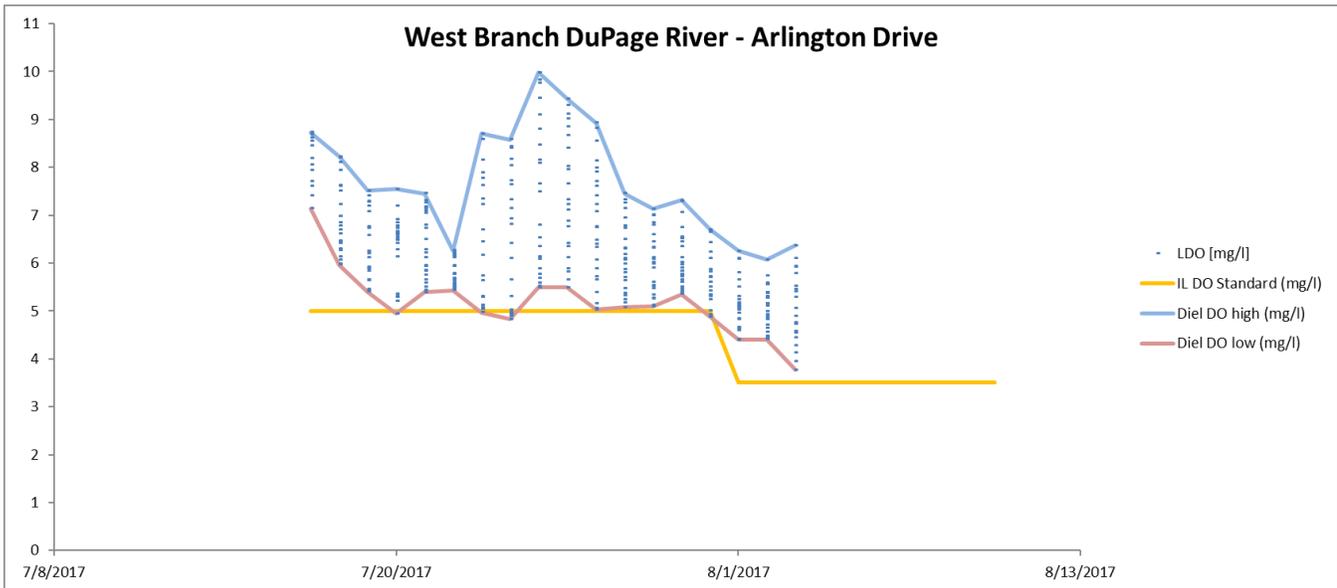
**Table 5.** Continuous DO monitoring locations in the DRSCW watersheds

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

Results

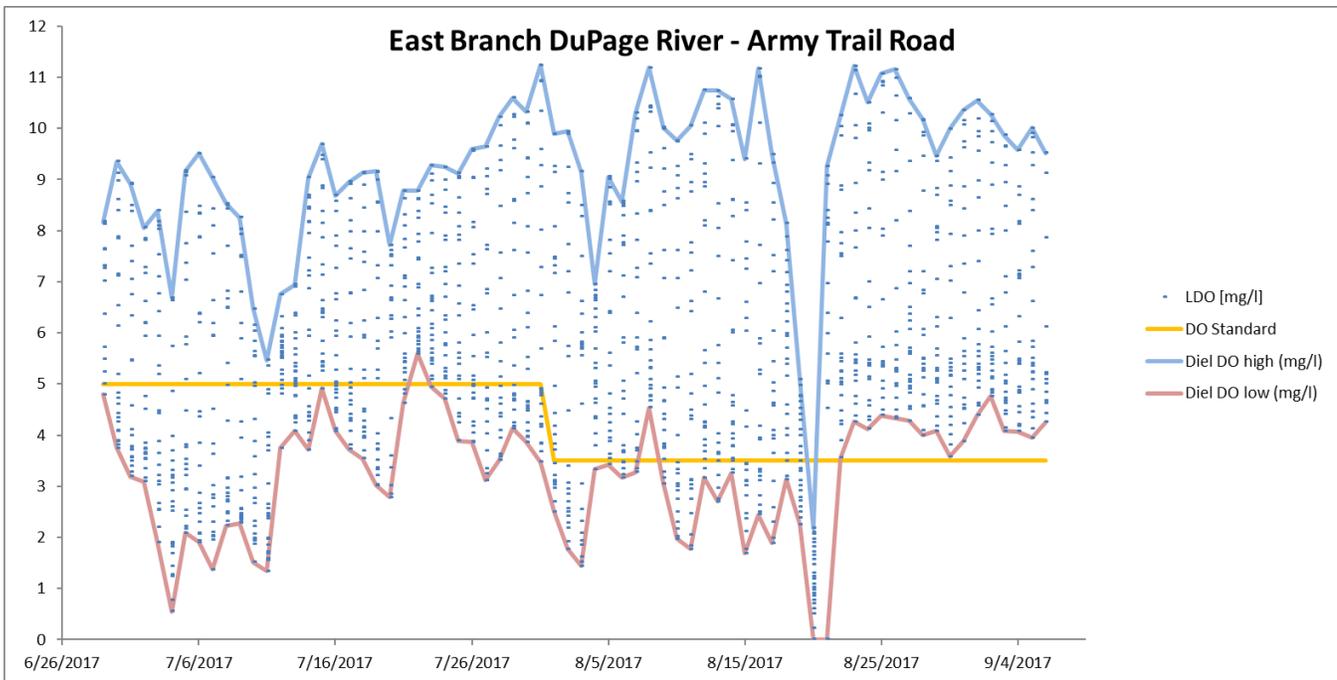
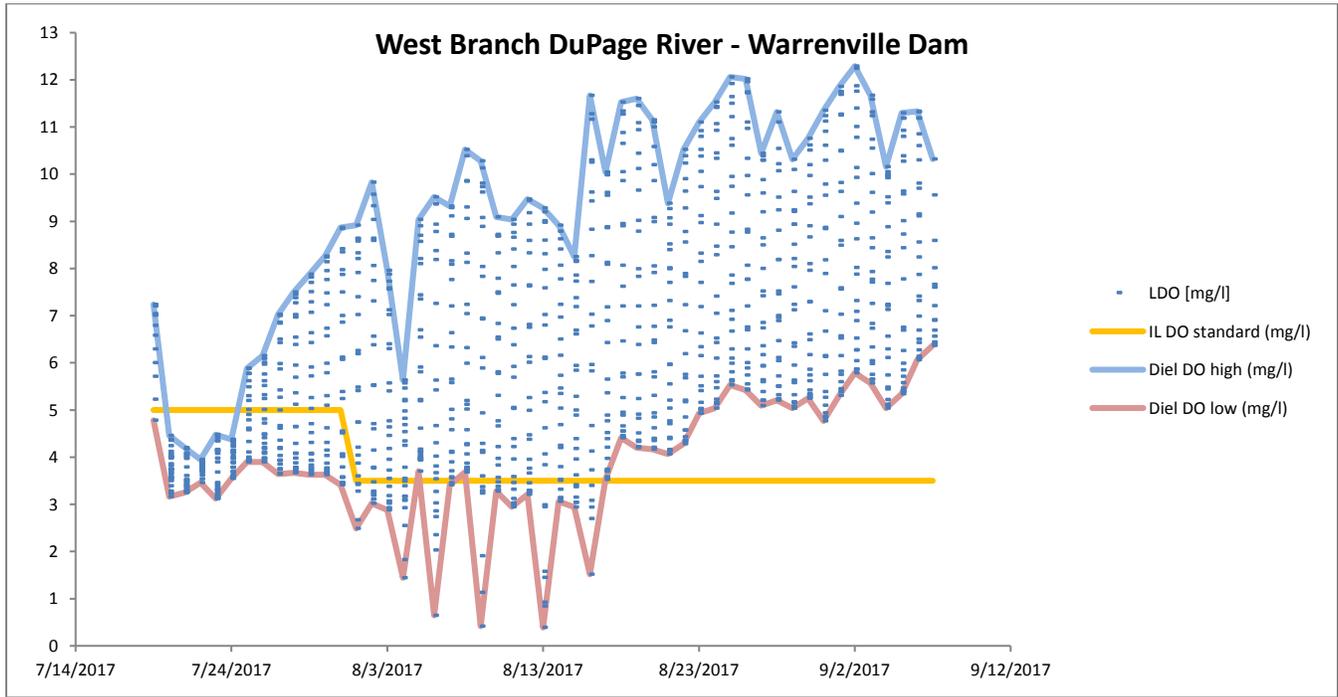
Results of the continuous DO monitoring conducted in the summer of 2017 is included in Figures 20-24.

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

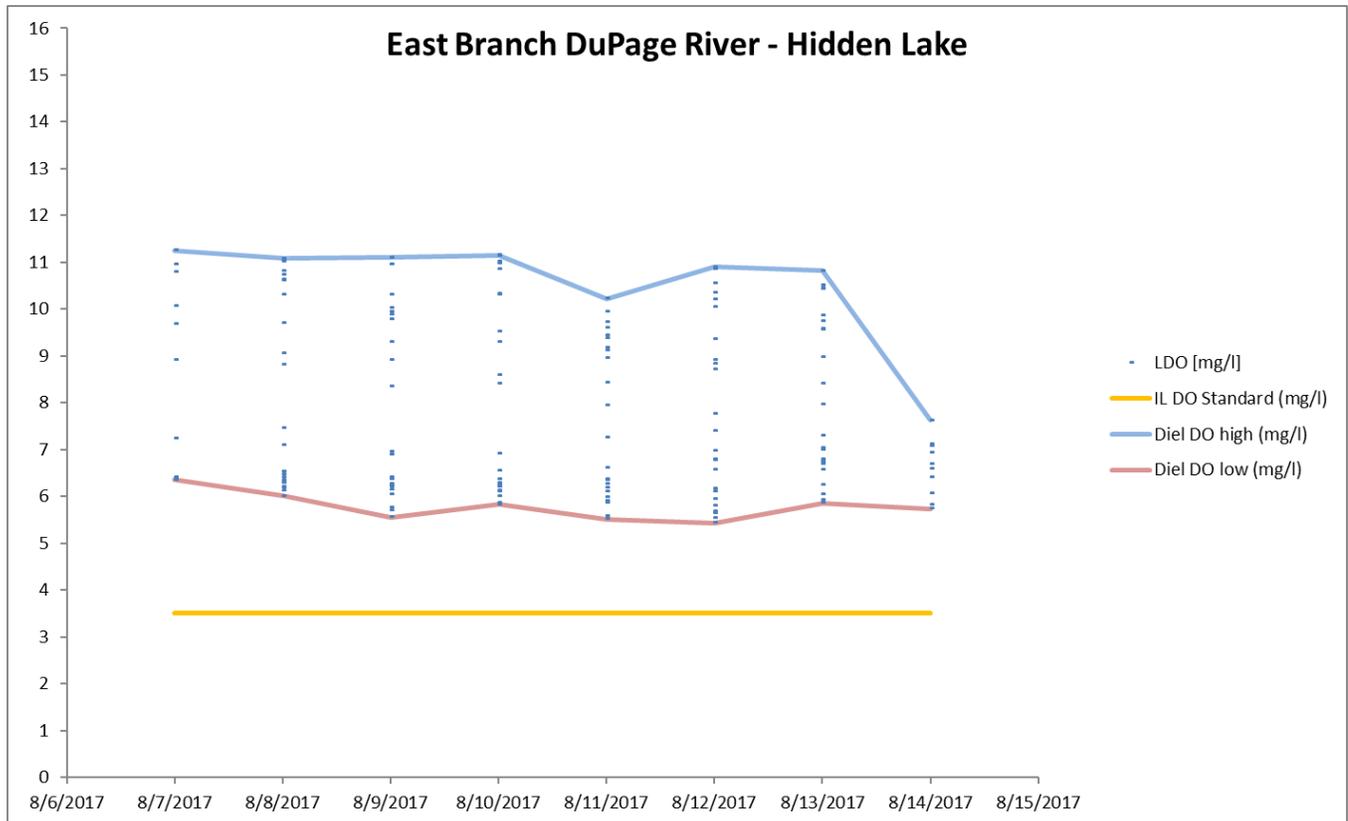
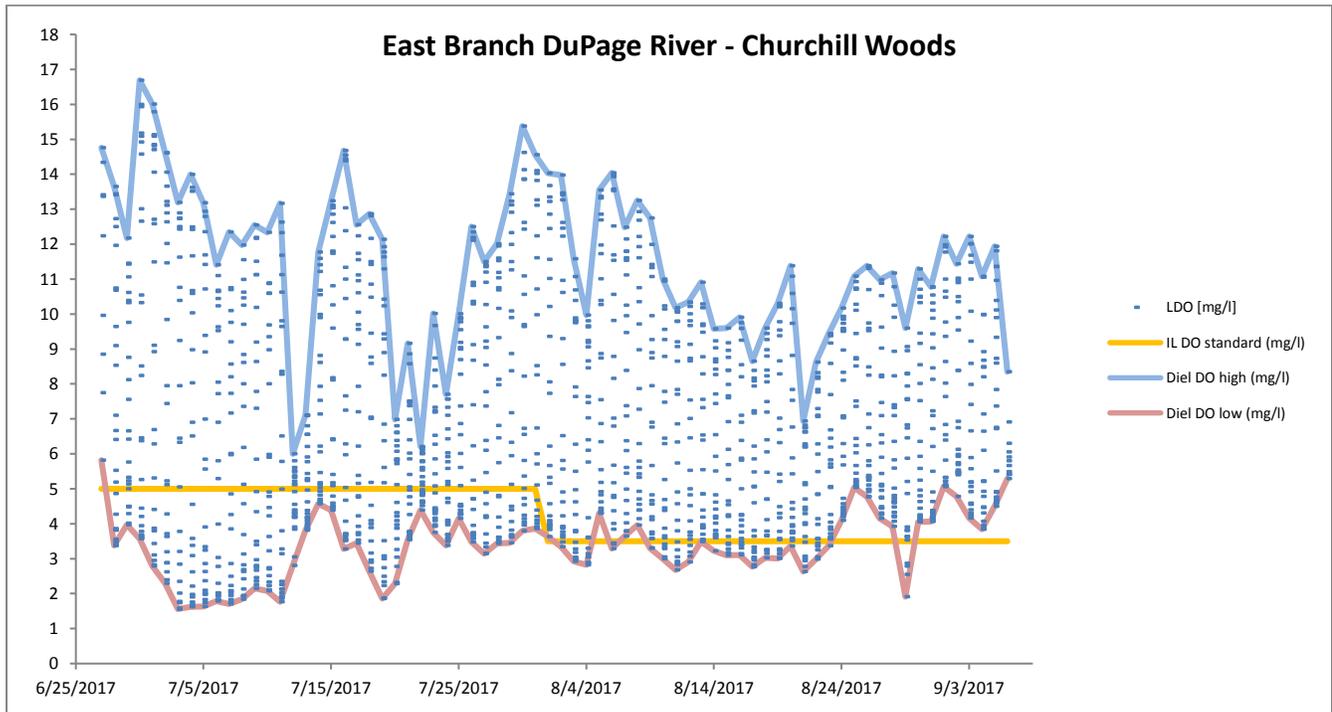


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**Figure 21.** Dissolved Oxygen plots for West Branch DuPage River sites WBWD (top panel) and East Branch DuPage River sites EBAR (lower panel).



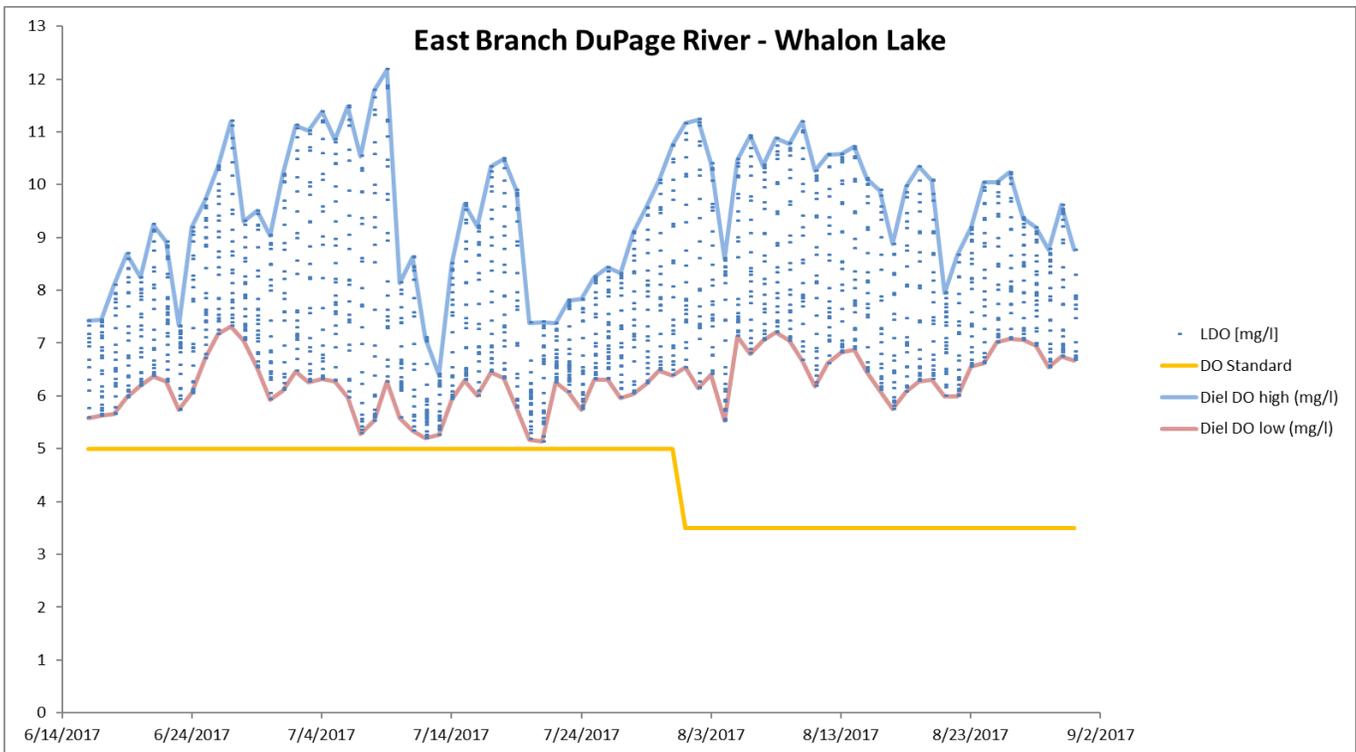
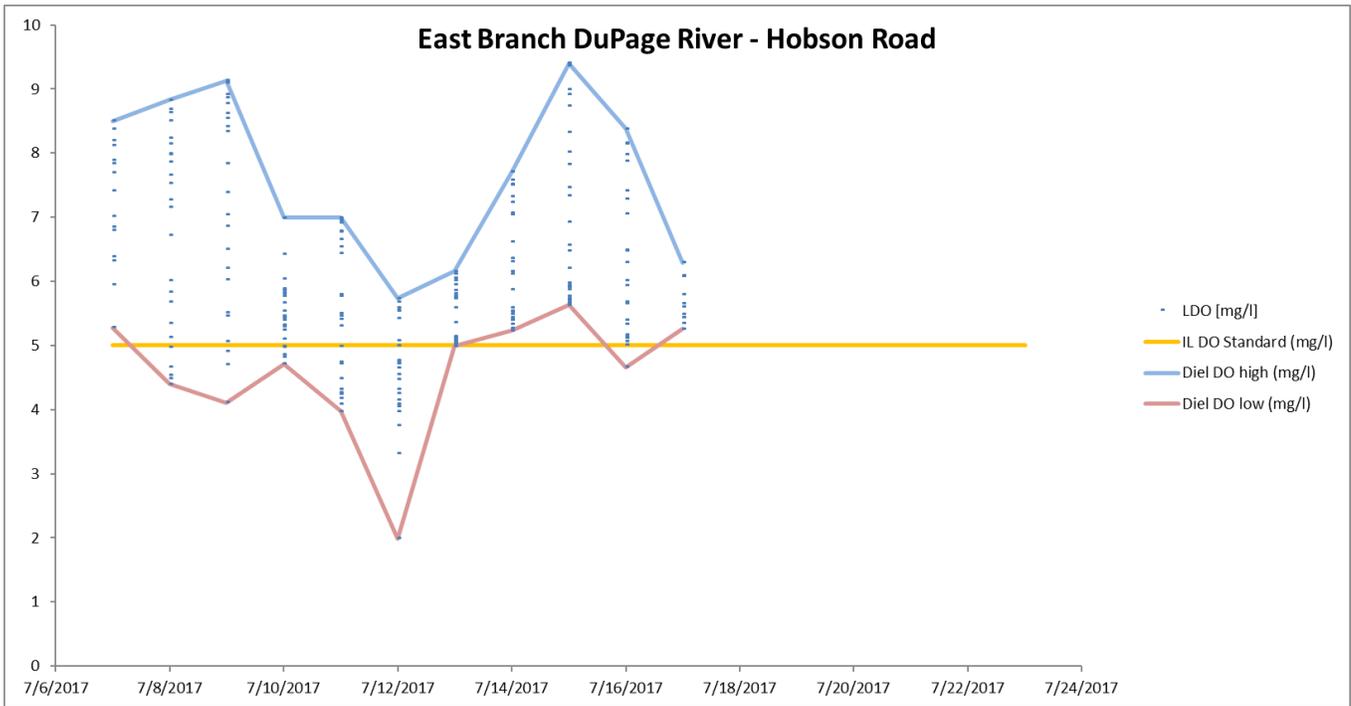
**Figure 22.** Dissolved Oxygen plots for East Branch DuPage River sites EBCB (top panel) and EBHL (lower panel).



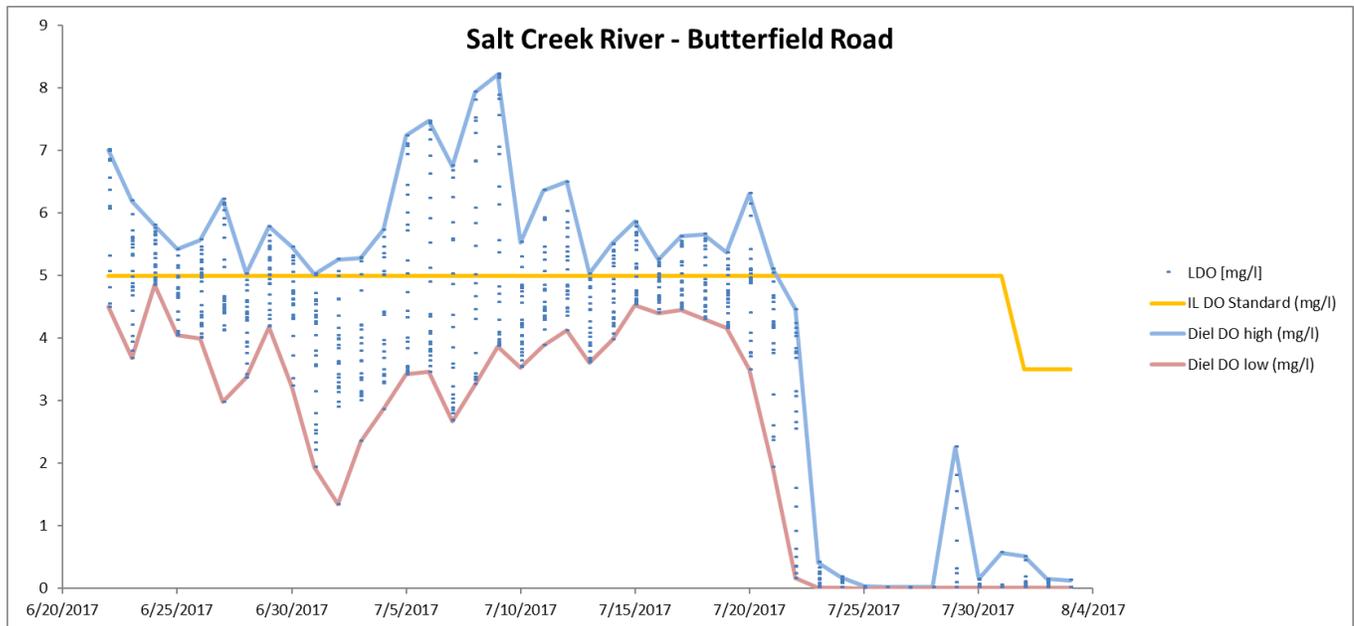
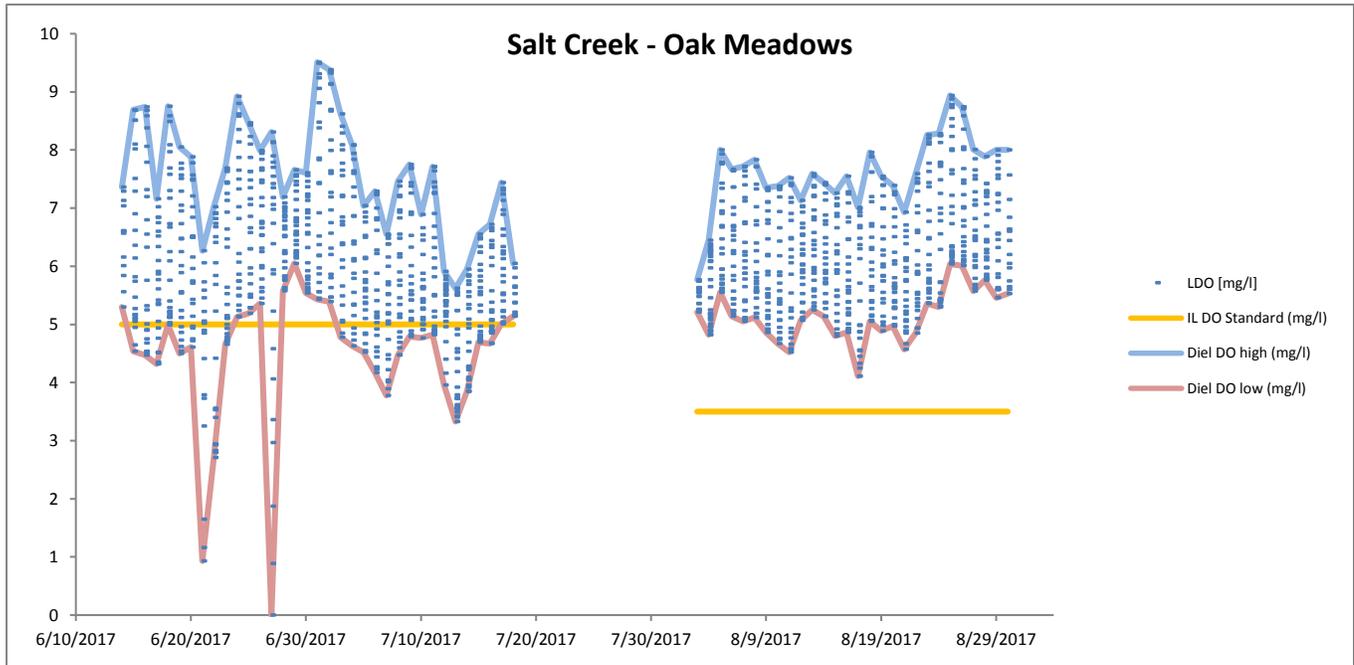
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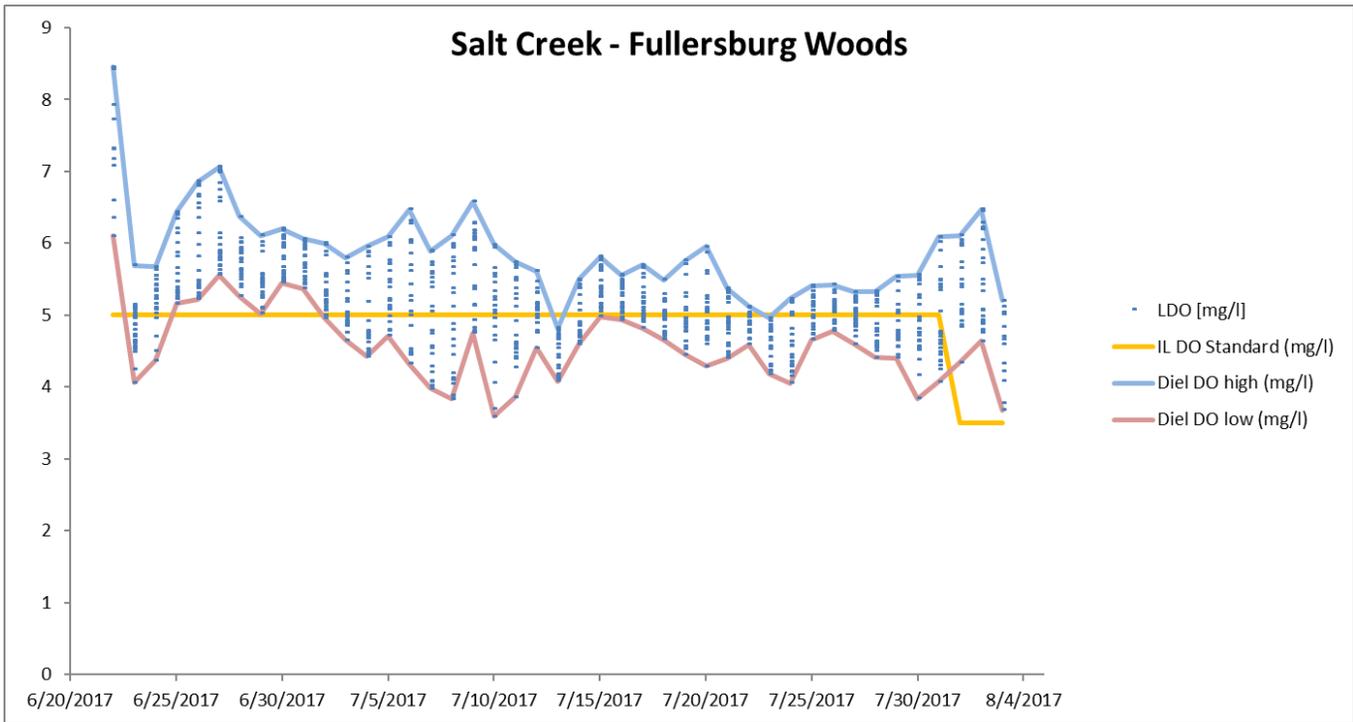
Figure 23. Dissolved Oxygen plots for East Branch DuPage River sites EBHR (top panel) and EBWL (lower panel).



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



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



**Proposed activities during the next reporting cycle:**

DuPage County Stormwater has been working with the IEPA to establish a Countywide NPDES program involving 40 municipalities and townships. A NOI was submitted for review along with Intergovernmental Agreements and Notice of Waiver Intent forms. The IEPA is currently reviewing these documents. We anticipate submitting one Annual Facility Inspection Report in 2019 to cover all participating agencies.

**SECTION E**

**Reliance on other government entities:**

The 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:**

<b>Project Name</b>	<b>Disturbed Acres</b>	<b>County Entity Constructing Project</b>	<b>Date of NOI</b>
Graue Mill Flood Protection Improvements	1.5	Stormwater Management / Village of Hinsdale	4/14/2016
Redmond Reservoir Expansion	5.6	Stormwater Management / Village of Bensenville	5/21/2018
DuComm Building & Improvements	18.9	Facilities Management	3/24/2017
C.H. 18 Powis Road Improvements	4.9	Transportation	8/2/2017

Up to date list of current DuPage County projects can be found here:

[http://www.dupageco.org/EDP/Stormwater\\_Management/Water\\_Quality/1361/](http://www.dupageco.org/EDP/Stormwater_Management/Water_Quality/1361/)