DES PLAINES RIVER WATERSHED WORKGROUP
ANNUAL MEETING
FEBRUARY 15, 2018 1:30-3:30 PM
LAKE COUNTY CENTRAL PERMIT FACILITY
500 W. WINCHESTER RD., LIBERTYVILLE, IL

MEETING AGENDA

1. ***Introductions and Announcements – Brian Dorn, North Shore Water Reclamation District and DRWW President, will conduct introductions and provide an overview of the meeting***
2. ***Approve 11/16/17 Joint DRWW/DPR Watershed Plan meeting minutes.***
3. ***Public Comment***
4. ***2017 DRWW Accomplishments Overview***
5. ***Guest Speakers***
    a. ***Abel Haile, Illinois EPA Planning Unit Manager*** – *The NPDES and TMDL Programs*
    b. **George Azevedo, U.S. EPA, Region 5 –** Watershed-based Approaches to Water Quality Improvement
    c. **Holly Hudson, CMAP –** A Regional Perspective on Water Quality, Water Supply, Stormwater, Flooding and Adapting to Changing Climate
6. ***DRWW Business***
    a. ***2018 Budget – Mike Warner***
    b. ***Member Recognition***
        i. ***John Heinz and Peter Kolb – Founders of the DRWW***
        ii. ***Buffalo Grove Public Works for Leadership in Snow and Ice Removal***
7. ***Next General Membership meeting: Quarterly meeting: May 17, 2018 – Watershed Outing to Lake County Forest Preserve District's Ethel's Woods.***
8. ***Old business***
9. ***New business***
    a. ***Dates for next De-Icing workshop will be Oct. 1-3, 2018. A preferred provider list of trained companies is available. Request your snow plow provider become trained or consider hiring someone who is trained.***
    b. ***North Branch Watershed Workgroup (NBWW) officially formed in Jan. 2018. LCSMC is proposing to be the Administrative Agent and will benefit form lessons learned from DRWW.***
10. ***Adjournment***

Certificates for 1 Professional Development Hour will be at the back of the room

-A Zero Waste Event-

JOINT MEETING OF THE
DES PLAINES RIVER WATERSHED WORKGROUP (DRWW)
AND DES PLAINES RIVER WATERSHED PLAN (DPR PLAN)
NOVEMBER 16, 2017 1:30-3:30 PM
LAKE COUNTY CENTRAL PERMIT FACILITY, SECOND FLOOR
500 W. WINCHESTER RD, LIBERTYVILLE, IL 60048

MEETING MINUTES

1. ***Introductions and Announcements – Al Giertych with Lake County Department of Transportation and DRWW Vice-President, called the meeting to order at 1:35 pm, conducted introductions, and provided an overview of the meeting.***

2. **Public Commnet.** None
3. ***Des Plaines River Watershed Planning Meeting –*** *Ashley Warren conducted DPR Watershed Plan business.*
    a. ***Approval of 10/12/17 Meeting Summary by Consensus.*** Meeting summary was approved by consensus.
    b. ***Prioritized Action Plan.*** *Ashley Warren gave an overview of Chapter 6 of the Watershed Plan which is the prioritized action plan.*

Comments were made jointly by League of Women Voters/Sierra Club: Requesting that LCSMC come p with specific, preventive measures to reduce non-point source (NPS) pollution, adopt regulations to promote Green Infrastructure, reduce runoff of nutrients, phase out lawn fertilizers with phosphorus, educate about road salting.
Chris Geiselhart (LPAHA) was wondering if removal of invasive phragmites fit in the list of projects?
Ashley Warren: Would fit in both the Programmatic (watershed-wide) and site-specific action plans and under education.

    c. ***Watershed Plan Implementation – Potential Action Plan Recommendations*** *-Jeff Boeckler of Northwater Consulting presented preliminary action items based on a windshield survey of the Watershed. He commented that stream bank stabilization is very expensive, that there are 1,261 detention basins and some lake specific recommendations. He also noted that modeling will determine reductions of bacteria, sediment, Nitrogen, Phosphorus and chlorides for each project.*

4. ***DRWW Business***
    a. ***Approval of Previous Meeting Minutes (8/17/17).*** *Paul Kendzior made a motion to approve the minutes, Joe Robinson seconded. Motion passed by unanimous voice vote.*

    b. *Committee Updates*

i. ***Monitoring/WQ Improvement Committee***. *Joe Robinson, chairman, gave the update. Joe gave a presentation of the summaies of the Draft Biological and Water Quality Assessment of the Upper Des Plaines River and Tributaries (2017) and the Draft Flow Monitoring Report (2017). Joe said next steps include (1) revising the monitoring program and (2) addressing water quality improvements by reducing siltation; continue the de-icing education program; reduction of PAHs through control and education; habitat improvement and POTW phosphorus load reduction.*

ii. ***Lakes Committee.*** *Mike Adam, chairman, gave the update. LCSMC puts on a de-icing workshop every fall – this year 200 people were trained. A test is administered at the end of the training, if the test is successfully completed then they are placed on a "preferred provider" list which is on LCSMC's website. Regarding the Lakes Committee update, Mike noted that there is a good data set for all the Lakes. Now it is time to start determining, using modeling, if the nutrient loadings are internal or external. Then come up with recommendations on how to address these sources of nutrients. There may also be additional sampling to verify the results of the modeling. In addition, Jim Bland is working on sampling for zebra mussels and their impacts.*

5. ***Old Business***

   a. ***Approval of Technical Coordinator Contract.*** *Mike Warner went over the modifications to the contract since the last Executive Board meeting. There were no questions. Paul Kendzior made a motion to approve the Technical Coordinator Contract, Jim Anderson seconded. The voice vote was unanimous in favor of approving the contract.*

6. ***New Business:*** *None.*

7. ***Next meeting for DRWW General Members: February 15, 2018 at Lake County Central Permit Facility at 1:30 pm.***

8. ***Adjournment:*** *Joe Robinson made a motion to adjourn. Michael Talbett seconded the motion. The motion passed unanimously.*

DRWW Members and Delegates Present:

Al Giertych, Lake County DOT
Brandon Janes, Village of Deerfield
Donald Hey, Wetlands Research, Inc.
Jim Anderson, Lake County Forest Preserve District
Joe Robinson; North Shore Water Reclamation District
Michael Talbett, Village of Kildeer
Mike Warner, Lake County Stormwater Management Commission
Paul Kendzior, Village of Libertyville
Mike Adam, LCHD
Ernesto Huaracha, LCSMC
Mike Prusila, LCSMC
Darrell Olsen, Christopher B Burke Engineering

Rob Flood, North Shore Water Reclamation District

Additional Attendees:
Beth Adler, DRWW Technical Coordinator
Patty Werner, citizen
Jeff Boeckler, Northwater Consulting
Adam Boeche, Mundelein
Rosemary Heilemann, League of Women Voters
Ross Sweeney, citizen
Don Wilson, citizen
Kirsten James, Hey and Assoc.
Maggie Soliz, AES
Tony Baade, LLPOA
John Hines, LLPOA
Jan Papa, Bluestem Ecological Services
Ernesto Huaracha, LCSMC
Kathy Micali, Sierra Club
Tom Miceli, Sierra Club
Moses Amidei, Wadsworth Village Administrator
Ed Coggin, Weston
Jeff Weiss, Buffalo Creek Subwatershed Workgroup
Jonathan Happ, Libertyville Twp
Fritz Chesek, citizen
Vernon Witthuhn, Strand Assoc.
Willy Dittrich, Village of Lincolnshire
Todd Gedville, Vernon Twp
Chris Geiselhart, LPAHA
Ed Lebbos, BLA/VOL
Patty Werner, citizen
Adam Boeche, Mundelein
Tom Chefalo, LCPBD
Mike Prusila, LCSMC

Des Plaines River Watershed Workgroup

2017 Des Plaines River Watershed Workgroup (DRWW) Annual Accomplishments

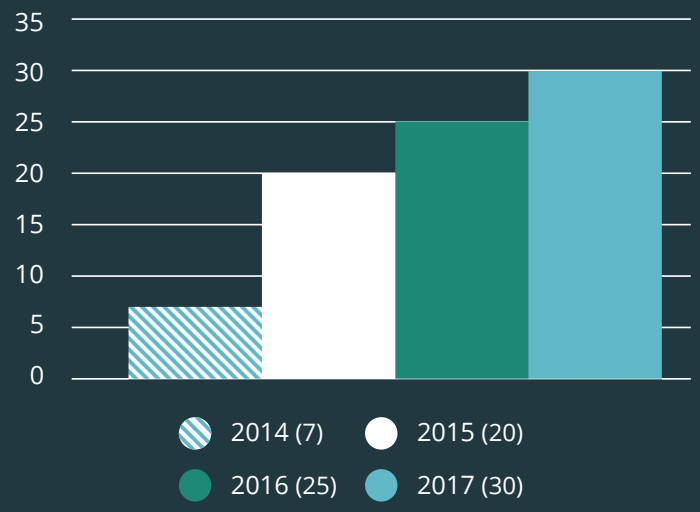
The DRWW is continuing to focus on implementing a comprehensive water quality monitoring program to meet permit requirements and study watershed stressors. According to the Illinois EPA, almost all of the waterways within the Des Plaines River Watershed are impaired.

The DRWW began conducting water sampling in 2015, sediment and bioassessment sampling in 2016, and has continued to collect data at 69 sites in 2017 and 71 sites in 2018. This data collection helps the DRWW understand and locate stressors, and helps determine the priority of correcting each stressor.

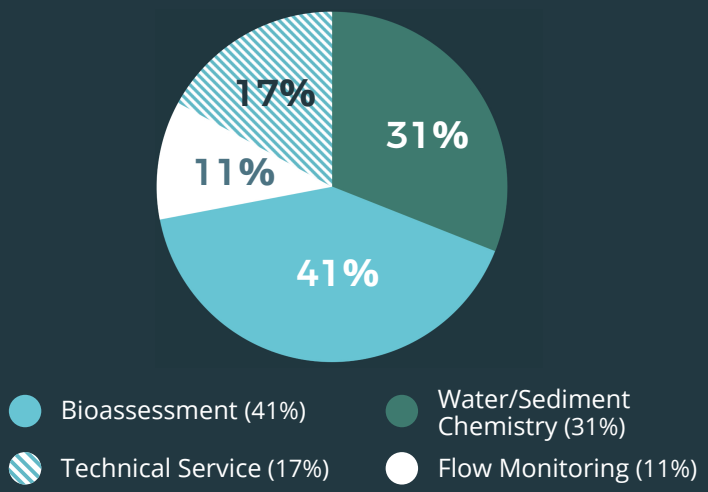
Membership and How the DRWW is Spending their Dues

The DRWW welcomed eight new members in 2017. All 2016 members renewed their membership for a total of 30 members bringing in $249,437 in dues (up 7.2% from 2016).

DRWW Membership



DRWW 2017 Expenses



DRWW Executive Board

In the fall of 2017, the DRWW Executive Board formed a task force to explore how data collected from the watershed can be used to simplify reporting under the federal Municipal Separate Storm Sewer System (MS4) Program.

- The task force is working on a plan to prepare and submit one annual MS4 report to the Illinois EPA on behalf of DRWW members.
- The task force initiated discussions with the Illinois EPA regarding a watershed-wide MS4 report and will work with watershed groups in other counties, state officials, and federal officials to develop the report.

DRWW Lakes Committee

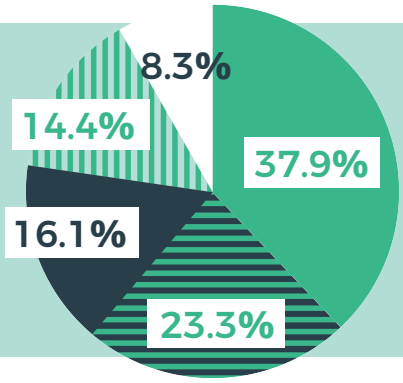
- Surveyed lake groups to determine most critical needs
- Summarized lake recommendations from previous water quality reports
- Participated in coordinating the 2017 Lake County Deicing Workshops
- Conducted two public meetings on DRWW lakes to seek input from lake property owners, managers and the general public
- Coordinated two Illinois Lake Management Association "Point of Discussion" events, one on the use of alum for phosphorus reduction and one on the manual removal of aquatic plants

DRWW Monitoring/Water Quality Improvements Committee

- Water and Sediment Chemistry at 50 locations and Biological Monitoring at 23 locations
- Flow Monitoring at 21 locations
- Chlorophyll-a sampling and continuous monitoring at 14 locations
- "Biological and Water Quality Assessment of the Upper Des Plaines River and Tributaries (2016)" report was completed in December 2017

Major Causes Associated with Aquatic Life Impairments: Upper Des Plaines

Data retrieved from the "Biological and Water Quality Assessment of the Upper Des Plaines River and Tributaries 2016" by the Midwest Biodiversity Institute.



Lake County Forest Preserve District (LCFPD)

The LCFPD is continuing work on the following restoration projects in the watershed:

$420,232 on Des Plaines River dam removals (MacArthur Woods and Captain Daniel Wright Woods)

$657,562 on tributary restoration (North Mill Creek)

$40,000 on native trees and shrubs (planted at Van Patten Woods, Captain Daniel Wright Woods, and Grainger Woods)

$80,000 on native seed (sown at Van Patten and Wadsworth)

$140,000 on herbaceous invasive plant control (multiple sites within the watershed)

Grand total towards improving water quality: $1,337,794

Watershed Planning

In 2015, the DRWW helped the Lake County Stormwater Management Commission secure a Clean Water Act Section 319 grant through the Illinois EPA to complete a Watershed Plan, using DRWW monitoring data expenditures as a match.

In 2017, the DRWW received a reimbursement of $47,500 from the 319 grant for costs associated with preparing Quality Assurance Project Plans (QAPP) and a Monitoring Strategy.

The final Watershed Plan is expected to be released in September 2018.

Wastewater Treatment Plants (WWTPs)

WWTPs have committed the following capital expenditures over several years to reduce phosphorus levels within the watershed:

North Shore Water Reclamation District (2 plants): $9.73M

Lake County (3 plants): $7M

Libertyville: $2.5M

Lindenhurst: $1.0M

Clean Water Act Section 319 Grants Awarded in 2017

Lake County Forest Preserve District: $1M (North Mill Creek Restoration at Ethel's Woods)

Lake County Stormwater Management Commission: $363,962 (University of Saint Mary of the Lake, Grayslake Park District, Libertyville Township)

Village of Buffalo Grove: $170,205 (Buffalo Creek Nature Preserve)

DRWW Membership

Agency Members

City of Lake Forest
City of Park City
Lake County
Lake County Division of Transportation
Lake County Forest Preserve District
Lake County Public Works
North Shore Water Reclamation District
Village of Buffalo Grove
Village of Deer Park
Village of Deerfield
Village of Grayslake
Village of Green Oaks
Village of Gurnee
Village of Hawthorn Woods
Village of Kildeer
Village of Lake Zurich
Village of Libertyville
Village of Lincolnshire
Village of Lindenhurst
Village of Long Grove
Village of Riverwoods
Village of Round Lake Beach
Village of Third Lake
Village of Vernon Hills

Associate Members

Applied Technologies, Inc.
Christopher B. Burke Engineering
Lake County Stormwater Management Commission
Sierra Club
Vernon Hills Park District
Wetlands Research Inc.

Des Plaines River Watershed Workgroup BUDGET (December 1st thru November 30th)		FY2017 Actual	Approved FY2018	Projected FY2019	Projected FY2020
REVENUE/Description	**Account #**				
Dues/Membership dues	775-4220010-46010	**$ 249,437**	$ 235,000	$ 235,000	$ 235,000
Expendable Carryover Addition	775-4220010-46010	**$ 192,559**	$ 122,557	$ 26,863	$ 21,813
Other State Funds/Illinois EPA 319 Grant	775-4220010-45350	**$ 47,500**			
Other (FPD/LCDOT)			-	-	-
Total Revenue		**$ 489,496**	**$ 357,557**	**$ 261,863**	**$ 256,813**
EXPENSES/Description					
Consultants/Technical Coordinator (GeoSyntec thru 4/30/16) PO 154955	775-4220010-71150	$ 6,317			
Consultants/Tech Coordinator (Beth Adler) PO 166092	775-4220010-71150	$ 54,874			
Monitoring Strategy and QAPP Refinement (IEPA Reimbursable)	775-4220010-71170				
WQ-Sediment Analysis - (Suburban Labs - July 2016 - April 2017) PO 162822	775-4220010-71310	$ 111,977			
Suburban Laboratory's Fees/Water Chemistry Monitoring (July 2016 - March 2017)	775-4220010-71310				
SubLabs - Chem All/yr; 1/3 Sediment/yr	775-4220010-71310				
Pollutant Load Initial Flow Analysis - (Burns and McDonnell)	775-4220010-71310	$ 41,795			
MBI - Initial Bioassessment/Sediment Sample-Analysis-Reporting (to 12/31/17) PO 164167 - FINAL	775-4220010-71310	$ 121,697			
MBI - Year 1 - 1/3 Watershed Sampling	775-4220010-71310	$ 30,280			
2018 Tech Coordinator (Beth Adler)	**775-4220010-71150**		***$ 57,560***		
2018 Contract 10% Retainage Payout - Burns and McDonnell 2017 Flow Analysis	**775-4220010-71310**		***$ 6,583***		
2018 SubLabs - Chem All/yr; 1/3 Sediment/yr - Work starts in Jan/May/Jul/Aug/Oct	**775-4220010-71310**		***$ 81,820***		
2018/2017 MBI - Initial Bioassessment/Sediment Sample-Analysis-Reporting (to 12/31/17) PO 164167 -	**775-4220010-71310**		***$ 3,411***		
2018/2017 MBI - Year 1 - 1/3 Watershed Sampling Remainder 2017 Contract Work	**775-4220010-71310**		***$ 47,720***		
2018 MBI - Year 2 - 1/3 WATERSHED SAMPLING -Work Starts in June	**775-4220010-71310**		**$ 45,600**		
2018 MBI IPS Modelling Monitoring Statistics and Project Prioritization	**775-4220010-71310**		**$ 60,000**		
2018 Lakes Committee - WQ Sampling - Work starts spring	**775-4220010-71310**		**$ 20,000**		
2018 SMC Administrative Services (June 1st thru November 30th)	**775-4220010-79940**		**$ 6,000**		
2018 public education (e.g.; printing, workshops,) - Work starts in Jan	**775-4220010-79950**		**$ 2,000**		
2019 Tech Coordinator (Beth Adler)				**$ 59,300**	
2019 MBI - 1/3 WATERSHED SAMPLING				**$ 82,750**	
2019 SubLabs - Chem All/yr; 1/3 Sediment/yr				**$ 66,000**	
2019 Lakes Committee - WQ Sampling				**$ 20,000**	
2019 SMC Administrative Services				**$ 12,000**	
2020 Tech Coordinator (Beth Adler)					**$ 61,100**
2020 MBI - 1/3 WATERSHED SAMPLING					**$ 82,750**
2020 SubLabs - Chem All/yr; 1/3 Sediment/yr					**$ 66,000**
2020 SMC Administrative Services					**$ 12,000**
2020 Lakes Committee - WQ Sampling					**$ 20,000**
Projected Expenses		**$ 366,939**	**$ 330,694**	**$ 240,050**	**$ 241,850**
Projected Unexpended Carryover		**$ 122,557**	$ 26,863	$ 21,813	$ 14,963