



## Des Plaines River Watershed Workgroup

Executive Board  
09/16/2021 2:00 pm  
Virtual Meeting  
Meeting Minutes

### Discussion and Possible Approval of the Following:

#### 1. Call the Meeting to Order

Al Giertych called the meeting to order at 2:02 pm.

#### 2. Roll Call

Ashley Strelcheck, DRWW Interim Coordinator, performed roll call. Al Giertych, Dave Miller, Michael Talbett, Paul Kendzior, Jim Anderson, Steve Waters, and Mike Adam were present. A quorum was present.

#### 3. Public Comment

Strelcheck - Lake County Stormwater Management Commission will be sending out an email to NBWW & DRWW members for the Illinois EPA NPDES General Permit Public Notice announcement open through October 1, 2021. This will be an opportunity for MS4 communities to provide public comment to watershed workgroup references in the updated permit language.

#### 4. 07/15/21 DRWW Executive Board Meeting Minutes

Talbett motioned to approve the 07/15/21 DRWW Executive Board Meeting Minutes. The motion was seconded by Kendzior. There was no public comment on this agenda item or motion.

- a. Ayes: Giertych, Adam, Anderson, Talbett, Kendzior, Waters, Nays: None, Abstain: Miller
- b. Motion Passed 6-0-1

#### 5. DRWW Financials

##### a. New Member Request: Deuchler Engineering

Adam motioned to approve Deuchler Engineering's membership request to join the DRWW. The motion was seconded by Talbett. There was no public comment on this agenda item or motion.

- Ayes-Giertych, Adam, Anderson, Talbett, Kendzior, Miller, Waters, Nays-None
- Motion passed 7-0



b. Expense-Revenue Invoice(s) & DRWW Budget Ratification:

- MBI: Invoice# 1907 & Geosyntec: Invoice# 181445587

Anderson motioned to approve the revenue-expenditures (including the above invoices). The motion was seconded by Kendzior and passed with unanimous consensus via roll call vote.

1. Ayes - Giertych, Adam, Anderson, Talbett, Kendzior, Miller, Waters
2. Motion passed 7-0

c. Membership Dues Scenarios

Talbett motioned to recommend to the general membership that the Second Scenario to redistribute the Lake County Forest Preserve membership dues to DRWW agency members based on percentage of overall dues paid be adopted for Fiscal Year 2022. The motion was seconded by Kendzior.

- Ayes- Giertych, Adam, Anderson, Talbett, Nays-Kendzior, Miller, Waters
- Motion passes 4-3

d. DRWW FY2022 – FY2023 – this agenda item was being reviewed for agenda item 5c.

**6. DRWW Monitoring Committee Updates**

a. Geosyntec NARP Update

Rishab Mahajan gave a summary of the DRWW NARP progress to the DRWW Executive Board. The progress update included the watershed modeling presented to monitoring committee. Geosyntec will continue to provide detailed updates to monitoring committee and begin in-stream modeling soon. Geosyntec will also review 2022 monitoring contract to ensure data will support NARP development.

**7. Old Business**

- a. Deicing Workshop – Strelcheck requested that DRWW members register to attend the upcoming Regional Deicing Workshops and to assist in distributing the information. DRWW is a sponsor of this event.

**8. New Business**

a. Membership Update: Wetlands Research Inc.

Wetlands Research Inc. will be removed from DRWW membership list. After multiple attempts, Strelcheck was unsuccessful in reaching the member via email and the company does not appear to exist according to Google.



b. IPS Model Training

Information item: DRSCW and MBI are in home stretch of finishing revisions to the IPS Model Manual. Once this is completed and the IPS dashboard has been updated by MBI, they will send that information to DRWW and will schedule a training near the end of FY21 or in FY22. The training cost is shared among 4 workgroups and comes out to just under \$5,000 per workgroup. MBI may require Geosyntec to enter an MOU or MOA to participate.

- Anderson – Question: If it is virtual is it possible to have more than 3-4 members participate? Maybe 10?
  - Strelcheck- will follow up with MBI regarding flexibility

c. November Annual Accomplishments Ideas

Strelcheck asked the Executive Board for topic suggestions for the 2021 DRWW Annual Accomplishments newsletter. Talbett wanted to highlight where the DRWW money is going and what needs to be accomplished (e.g., the NARP); Waters thought a NARP progress update would be a good topic; and Mahajan indicated he can write short article on DRWW NARP. Strelcheck will provide a draft for review in December.

9. **Member Comments**

Mahajan - IWEA is hosting an upcoming webinar (October 6, 2021) featuring case studies on developing a NARP on October 6, 2021.

Giertych- any grants available based on bills in Washington? Mahajan - FEMA BRIC and FMA programs, will send link to Ashley to distribute to the NBWW & DRWW members.

**10. Next Executive Board Meeting: October 21, 2021 at 2:00 pm**

**11. Adjourn – 3:05pm**

Mike Talbett motioned to adjourn. The motion was seconded by Mike Adam and approved with unanimous consensus via roll call vote. There was no public comment on this agenda item or motion.

**DRWW Executive Board Meeting Attendees**

| NAME              | ORGANIZATION  |
|-------------------|---|
| Al Giertych       | Lake County Division of Transportation                |
| Alana Bartolai    | Lake County Health Department – Lakes Management Unit |
| Ashley Strelcheck | Lake County Stormwater Management Commission          |
| Brian Kuebker     | Village of Libertyville                               |
| Dave Miller       | NSWRD   |
| Jim Anderson      | Lake County Forest Preserve District                  |



| NAME            | ORGANIZATION  |
|-----------------|---|
| Leonard Dane    | Deuchler Engineering Corp.                            |
| Michael Talbett | Village of Kildeer                                    |
| Mike Adam       | Lake County Health Department – Lakes Management Unit |
| Mike Foster     | Kieser & Associates                                   |
| Mike Prusila    | Lake County Stormwater Management Commission          |
| Paul Kendzior   | Village of Libertyville                               |
| Rishab Mahajan  | Geosyntec Consultants, Inc.                           |
| Rob Flood       | North Shore Water Reclamation District                |
| Steve Waters    | North Shore Water Reclamation District                |
| Tom Morthorst   | Village of Third Lake                                 |



**Des Plaines River Watershed Workgroup**

**Executive Board**

**07/15/2021 2:00 pm**

**Virtual Meeting**

**Meeting Minutes**

**Discussion and Possible Approval of the Following:**

**1. Call the Meeting to Order**

Al Giertych called the meeting to order at 2:01 pm.

**2. Roll Call**

Ashley Strelcheck, DRWW Interim Coordinator, performed roll call. Al Giertych, Chuck Bodden, Michael Talbett, Paul Kendzior, Jim Anderson, Steve Waters, and Mike Adam were present. A quorum was present.

**3. Public Comment**

There was no public comment.

**4. 06/17/21 DRWW Executive Board Meeting Minutes**

Mike Talbett motioned to approve the 06/17/21 DRWW Executive Board Meeting Minutes. The motion was seconded by Paul Kendzior and passed with unanimous consensus via roll call vote. There was no public comment on this agenda item or motion.

**5. Financial Report**

**a. Expense-Revenue & Invoice(s) Ratification:**

- i. Lake County Health Department: Invoice# 400031070
- ii. MBI: Invoice# 1890
- iii. Geosyntec: Invoice# 181439480

Jim Anderson motioned to approve the expenditures and revenue (including the three new invoices above) and the budget of accounts. The motion was seconded by Paul Kendzior and passed with unanimous consensus via roll call vote.

**6. Geosyntec NARP Update**

Rishab Mahajan gave a summary of the DRWW NARP progress to the DRWW Executive Board. Geosyntec has requested and received all of the DRWW data and reviewed periods of flow and rainfall from available data (trying to find low flow periods). Based on the flow/rainfall data review, Geosyntec concluded that the primary low flow period was in 2020 (for model's response of nutrient loading to Dissolved Oxygen [DO] and algae). Phase 2 of the project (model development), the subconsultant delineated the Upper Des Plaines River watershed into smaller subwatersheds. The next steps are to set up the SWAPP model to run that data and this is expected to be completed by end of 2021. The next steps for data analysis will summarize the total phosphorus impacts for DO and algae in the watershed which Geosyntec hopes to provide updates on at the August 19, 2021 DRWW General Membership meeting.

## **7. Old Business**

### **a. Lake County Forest Preserve District Membership Dues**

The Executive Board continued discussion of the Lake County Forest Preserve District's (LCFPD) dues structure. Jim Anderson presented the LCFPD DRWW Membership Dues Proposal of \$250 annually, to remain an Agency member and not be included in the NARP cost increases. Jim Anderson explained that DRWW was formed to decrease costs for monitoring and permit requirements of water treatment facilities and MS4 communities. LCFPD believes they should pay \$250 annually, since the LCFPD is not required to have an NPDES or MS4 stormwater permit. The LCFPD will be leaving the DRWW if the \$250 annual membership is not approved by the DRWW Executive Board.

The Executive Board discussed this proposal, and each Board Member expressed their opinions on this cost reduction. The value of LCFPD's partnership since the formation of the group and potentially in the future with watershed projects was discussed, as well as, the fear of setting a dangerous precedent for other DRWW members that want their membership dues reduced. After the discussion of this agenda item, Al Giertych asked the Executive Board for a vote on this item. Jim Anderson motioned to approve the LCFPD \$250 annual membership dues starting in 2022, to remain a DRWW agency member and have no increased dues for payment of the NARP. The motion was seconded by Mike Talbett. Roll Call was performed, and the results were: Giertych: Yes, Bodden: No, Waters: No, Talbett: Yes, Adam: Yes, Kendzior: No, Anderson: Yes. The motion passed with a majority of a quorum via roll call vote.

After the motion was passed, a second discussion began about potential options for mitigating the LCFPD annual dues deficit for payment of the NARP contract and DRWW monitoring costs. The Executive Board asked Ashley to bring the following scenarios to the September 2021 Executive Board Meeting for consideration:

1. Using Jacob's June 17<sup>th</sup> 2021 Meeting Scenario: Dividing costs to all agency members based on percent of total dues.
2. Dividing costs evenly among all DRWW Agency Members
3. Using small percentage increase to all DRWW Members, as has been done in other watershed workgroups. Ashley will investigate the reasoning for those increases to see if they could be a potential option here.

Mike Adam suggested coordination on potential ways to possibly cut back on a few DRWW bills. Ashley Strelcheck and Mike Adam will coordinate at a later date to determine if there are any viable options.

## **8. New Business**

### **a. OMA Meeting Update**

Ashley Strelcheck explained that the latest guidance by the Illinois Governor has extended the OMA virtual meetings Executive Order. When this order has expired, Ashley will review Lake County guidance and start booking in-person meeting locations. Per the request of the Executive Board, Ashley will tentatively book some in-person meeting locations that can accommodate the Executive Board safely (social distancing) for upcoming meetings.

### **b. August 19, 2021 DRWW General Membership Meeting**

Ashley Strelcheck asked the Executive Board for presentation topic suggestions for the August 19, 2021 DRWW General Membership Meeting. New suggestions that were provided included: Next Generation Water Observing System: Illinois River Basin by the USGS and Illinois EPA representative to speak about NPDES permitting for members. The DRWW Monitoring Committee also made some presentation suggestions for consideration. Ashley will reach out to potential presenters for the August 19, 2021 meeting. Although the DRWW Public Comment Policy was approved by the DRWW at the June 17, 2021 Executive Board meeting, Ashley suggested that this policy be reviewed by the general membership at the August 19, 2021 General Membership meeting. The Executive Board agreed with Ashley's suggestion.

## **9. Member Comments** - There was no member comments.

## **10. Next Executive Board Meeting: September 16, 2021 at 2:00 pm**

The DRWW Executive Board is interested in returning to in-person meetings for this meeting if possible. See agenda item 8a for details.

## **11. DRWW General Membership Meeting: August 19, 2021 at 1:30 pm**

## 12. Adjourn

Paul Kendzior motioned to adjourn. The motion was seconded by Mike Adam and approved with unanimous consensus via roll call vote. There was no public comment on this agenda item or motion.

### DRWW Executive Board Meeting Attendees

| NAME              | ORGANIZATION  |
|-------------------|---|
| Al Giertych       | Lake County Division of Transportation                |
| Alana Bartolai    | Lake County Health Department – Lakes Management Unit |
| Ashley Strelcheck | Lake County Stormwater Management Commission          |
| Brian Kuebker     | Village of Libertyville                               |
| Chuck Bodden      | North Shore Water Reclamation District                |
| Mike Adam         | Lake County Health Department – Lakes Management Unit |
| Jim Anderson      | Lake County Forest Preserve District                  |
| Michael Talbett   | Village of Kildeer                                    |
| Mike Prusila      | Lake County Stormwater Management Commission          |
| Paul Kendzior     | Village of Libertyville                               |
| Rishab Mahajan    | Geosyntec Consultants, Inc.                           |
| Steve Waters      | North Shore Water Reclamation District                |
| Tom Morthorst     | Village of Third Lake                                 |



## DES PLAINES RIVER WATERSHED WORKGROUP AGREEMENT

This "Agreement" is made by and among the North Shore Water Reclamation District, various Illinois Municipal Corporations, the County of Lake, Illinois, other Units of Local Government, Not-for-Profit Corporations, and Private Parties (collectively, the "Parties").

### Recitals

The Parties have individually and collectively determined that the Des Plaines River Watershed "Watershed", generally described in the map attached as Exhibit B, which is made a part of this Agreement by this reference, may be in need of water quality improvements, and they have further determined that it would be beneficial to enter into a cooperative agreement by forming the Des Plaines River Watershed Workgroup "DRWW" through this Agreement to provide for the collection of data that would assist in identifying issues that impact local and regional water quality within the Watershed

The scope of the work the Parties intend to perform under this Agreement is limited in nature as to provide for the collection of water quality data. The Parties, through the DRWW, intend to jointly perform (or to contract with others for the performance of) the following type of work, which shall be referred to as the "Intended Work": collecting water quality data and assisting in identifying potential water quality impairments based on the collected water quality data.

The Parties have determined that the DRWW would consolidate the limited resources of the Parties and limit duplication of work. After consideration of planning, fiscal, and other issues involving water quality and affecting this matter, each of the Parties has determined that it is in the interests of its citizens, representative groups, and of the general public welfare that this Agreement be executed and implemented.

To achieve the aforementioned goals and objectives, the Parties may rely upon the powers and authority granted to them, individually and collectively, pursuant to the Intergovernmental Cooperation Act, 5 ILCS 220/1 et seq.; Article VII, Section 10 of the 1970 Constitution of the State of Illinois; the Local Land Resource Management Planning Act, 50 ILCS 805/1 et seq.; the Illinois Drainage Act, 70 ILCS 605/1 et seq.; and other statutory authority, including without limitation 55 ILCS 5/5-1062 et seq., providing authority to the Stormwater Management Commission; the Environmental Protection Act, 415 ILCS 5 et seq.; The Green Infrastructure for Clean Water Act, 415 ILCS 56/1 et seq.; and other applicable law.

In light of the foregoing, the Parties now agree as follows:

1. Incorporation of Recitals.
  - A. The recitals to this Agreement are incorporated by this reference.
2. Bylaws; Membership; Officers and Executive Board.
  - A. Membership in the DRWW shall be governed by the DRWW bylaws, which are attached to and made a part of this Agreement as Exhibit D.
  - B. Officers of the DRWW shall be governed by the DRWW bylaws, and chosen through the process set forth in the bylaws.
  - C. The Executive Board shall be constituted as set forth in the DRWW bylaws.
3. Funding.
  - A. To provide a source of funds to commence the Intended Work each Party agrees to contribute its proportionate share of the costs associated with the Intended Work, in accordance with the schedule of dues shown on Exhibit C, which is attached to and made a part of this Agreement by this reference and as described further in Paragraph 4.C. below. No party shall be required to provide any funds in excess of the dues that have been approved for any given fiscal year of that party and shall not be deemed to be obligated or legally required to appropriate and/or pay any dues for future fiscal years. The DRWW shall have no power or authority to incur any debt or obligation on behalf of a Party beyond the dues actually paid by the Party.
  - B. To make substantive progress on the Intended Work, the Parties must proceed expeditiously and

accordingly deem it advisable to authorize their officers, employees and representatives to cooperate with each other.

- C. Where not otherwise provided by in-kind contributions of a Party (i.e. services that a Party provides by using its own staff and equipment without reimbursement from the DRWW), the DRWW may, after approval by its Executive Board, engage the professional or other related services deemed necessary to accomplish the Intended Work.
  - D. The DRWW may obtain, by and through its Executive Board, services to perform the Intended Work by engaging the services of professional (herein referred to collectively as "Watershed-Related Services") as are necessary to make substantive progress on the collection of data and identification of impairments to water quality. The Intended Work may be adjusted by mutual agreement of the Parties from time to time.
  - E. The DRWW shall have no authority to hire employees or create a paid staff to manage the affairs of the DRWW. The DRWW shall have no authority to use funds of the DRWW to pay any per diem, food, lodging, entertainment, travel or educational expenses of the employees or officers of the members of the DRWW including the members of the DRWW Executive Board. Each Party shall be solely responsible for all employee benefits, wage and disability payments, pension and workers' compensation claims of the personnel who participate in the DRWW.
4. Cost Sharing for the Intended Work.
- A. Professional Related Services. The Parties agree that: (i) the DRWW, through its Executive Board, may engage professional services and other services to perform various aspects of the Intended Work and, with consultation and advice from the DRWW Committees, may engage water quality monitoring, planning, engineering, management, and financial service professionals or others to perform the Intended Work; (ii) the results of the Intended Work will be of common and mutual interest among the Parties, and such Intended Work, to the greatest measure reasonably achievable, shall be undertaken to advance the common interest of the Parties and not in a manner adverse to any of the Parties; and (iii) the DRWW shall share with, and seek input from, the Parties, per the DRWW Bylaws, in connection with the Intended Work.
  - B. Payment. Subject to the terms of this Agreement, the DRWW will pay all costs relating to the Intended Work.
  - C. Sharing of Cost Responsibilities; Dues, Revenues and Expenses. The Parties agree that they shall share the costs associated with the Intended Work based upon the dues collected per the DRWW bylaws. To that end, each Party shall deliver the dues shown on Exhibit C as its share of the costs of Intended Work to the DRWW annually (on or about June 1 for existing members, per the terms of the DRWW annual invoice sent prior to that date; or, for new members, the current dues amount adopted under the process set forth in the DRWW bylaws). The dues shall be held in a dedicated financial fund (the "DRWW Fund," described below) for dues, revenues and expenses related to the Intended Work. The amount of dues from each respective Party shall be as originally determined and shown on Exhibit C, which shall be annually reviewed and may be adjusted in accordance with the DRWW bylaws, through which the dues amounts shall be approved by a simple majority of the votes cast.
  - D. DRWW Fund. A fund (known as an "agency fund") shall be established and maintained within the County of Lake's financial system as a separate, special fund for the exclusive use and purposes of the DRWW. This fund shall include the necessary expense and revenue accounts matching the type of goods and services paid for, and the revenue sources received.  

All contracts for the Intended Work shall be let by using the procedures set forth in the County of Lake's Purchasing Ordinance, as that ordinance is amended from time to time. The Administrative Agent, described below, shall manage the process under the Purchasing Ordinance for the DRWW.
  - E. Accounting. The DRWW shall provide to the Parties: (i) a quarterly report of revenues and expenditures from all DRWW financial accounts for all activities related to the Intended Work; (ii) a

year-end statement of revenues and expenditures; and (iii) an annual audit. The Intended Work shall be financially executed per DRWW bylaws.

- F. No Liability of the DRWW. The Parties agree that the DRWW shall not be liable to the other Parties, or to any individual Party, for any claim or damage of any kind whatsoever relating to the Intended Work. Each Party agrees to assume liability for its respective personnel assigned to the DRWW, as well as for vehicles and equipment provided by the Party. The Party shall be solely liable for any employee or officer of the Party which participates in the activities of the DRWW. If an injury is caused, in whole or in part, by a Party's personnel the Party shall bear the liability or obligation to indemnify and hold harmless all other members of the DRWW. "Personnel" shall include any officer or elected official of a Party.
  - G. Coordination of the Intended Work. To effectively coordinate the various elements of the Intended Work, the Parties agree that certain aspects should be allocated to various Committees, which will consist of officials or personnel of various Parties. Committee representation shall be by appointment in accordance with the DRWW bylaws, and will include at least the following:
    - i. Monitoring Committee: The Monitoring Committee shall oversee the monitoring program of the Workgroup and make appropriate recommendations for program revisions to the Executive Board.
    - ii. Lakes Committee: The Lakes Committee shall assist in identifying lakes tributary to the Des Plaines River that impact the water quality of the Des Plaines River and make appropriate recommendations for program revisions to the Executive Board.
    - iii. Impairments Committee: The Impairments Committee shall oversee the identification of impairments to water quality for the Workgroup and make appropriate recommendations for program revisions to the Executive Board.
  - H. Administrative Agent. The DRWW shall utilize the Lake County Stormwater Management Commission as its administrative agent for entering into contracts, making payments, as directed by the Executive Board, receiving dues or other grants or revenue, and for providing the financial accounting and reports required by this Agreement, or as directed by the Executive Board.
  - I. Freedom of Information; Open Meetings. The Parties agree that the DRWW shall be deemed to be governed by the requirements of the Illinois Open Meetings Act and the Illinois Freedom of Information Act and will conduct the affairs of the DRWW accord to said Acts.
  - J. Receipt of Other Funds. The DRWW is authorized to accept or receive any contributions, donations, and gifts from private individuals or entities, to carry out the purposes of this Agreement.
5. Representation and Cooperation. Each of the Parties represents that the persons executing this agreement on behalf of such Party is duly authorized to do so. The Parties agree that no Party shall have the right to compel any other Party to enter into any agreement that is not mutually acceptable. The Parties agree to meet and confer to discuss any disputes over the terms of this Agreement.
6. Entire Understanding; Amendment. This Agreement contains the entire understanding of the Parties and the DRWW regarding cost-sharing obligations with respect to the Intended Work, Watershed-Related Services, and all other agreements, understandings, representations, and statements, if any, whether oral or written, are merged herein. The Parties agree that this Agreement, including the attached bylaws, may be amended only by a super majority of the DRWW Executive Board, and any such amendment will be deemed accepted by the signatories to this Agreement unless they submit a notice of termination, as set forth below, within 30 days of the amendment's effective date. (Unless otherwise specified, an amendment's effective date will ordinarily occur on the date the Executive Board approves the amendment).
7. DRWW Formation Date, Execution by Parties, Agreement Effective Date and Renewal. The DRWW was officially formed as of the initial adoption of the DRWW bylaws, August 26, 2014, and this Agreement shall be considered effective as of that date. This Agreement shall be executed by authorized representatives of the Parties, and each Party's membership shall become effective upon completion of the following three

actions: (i) the Party signs this Agreement; (ii) the Party transmits a copy to the address listed under "Notices," below; (iii) the Party pays the dues contained in Exhibit C, as those dues may be amended from year to year. This Agreement may be executed in counterparts. This Agreement shall be in full force and effect as of August 26, 2014, and as to each Party shall automatically renew annually upon payment of the Party's annual dues and may continue for an indefinite time until dissolution of the DRWW occurs, in accordance with Paragraph 9 and the DRWW bylaws. This Agreement may be amended by a resolution approved by a super-majority of the DRWW Executive Board.

8. Termination by Individual Parties. A Party to this Agreement may give notice of termination and officially end its membership through 45 days' prior written notice to the addresses specified below under the section for Notices. Any terminating Party shall be responsible for its proportionate share of the costs of Intended Work that has been approved by the Executive Board prior to the date the termination notice is received. A Party shall have no financial liability beyond the current year for which dues have been paid.
9. Dissolution and Return of Remaining Funds. Upon dissolution of the DRWW pursuant to the DRWW bylaws, and only to the extent that any funds remain after payment of all costs related to completion of the Intended Work, the remaining Parties shall be reimbursed from the remaining funds in the same proportion as their respective contributions. The DRWW shall deliver such remaining funds to the Parties within 90 days after the dissolution of the DRWW, unless otherwise agreed by the Parties.
10. Notices. All notices to the DRWW under this Agreement shall be sent to:

Des Plaines River Watershed Workgroup  
Attn: President  
500 W. Winchester Road, Suite 201  
Libertyville, IL 60048

With a copy to:  
North Shore Water Reclamation District  
Attn: Executive Director  
14770 W. Wm. Koepsel Drive  
Gurnee, IL 60031

[SIGNATURES ON THE FOLLOWING PAGE - EXHIBIT A]

Exhibit A

Des Plaines River Watershed Workgroup Agreement

— SIGNATURE PAGE —

IN WITNESS WHEREOF, pursuant to proper authority duly granted, the Party signing below agrees to join the Des Plaines River Watershed Workgroup and be bound by the terms of this Agreement.

|   |  |
|---|--|
| <p><u>Deuchler Engineering Corp</u><br/>Member Organization (or Self)</p> <p><u>Leonard Dane</u><br/>Authorized Signature</p> <p><u>Leonard Dane</u><br/>Print Name</p> <p><u>8-19-2021</u><br/>Date</p>            | <p>ATTEST:</p> <p><u>John W. Frerich</u><br/>Signature</p> <p><u>JOHN W. FRERICH</u><br/>Print Name</p> <p><u>8/19/2021</u><br/>Date</p> |
| <p>Contact Information:</p> <p>Address: <u>230 Woodlawn Ave</u><br/><u>Aurora, IL 60506</u></p> <p>Telephone: <u>630-423-0479</u></p> <p>Facsimile: <u>630-897-5696</u></p> <p>Email: <u>ldane@deuchler.com</u></p> |  |



## EXHIBIT C

Des Plaines River Watershed Workgroup  
Executive Board Approved Dues  
August 29, 2018

| Name                         | Area within the Des<br>Plaines River Watershed<br>(acres) | Design<br>Average<br>Flow (MGD) | Entity Dues  |
|------------------------------|---|---------------------------------|--------------|
| Buffalo Grove                | 4515  |                                 | \$3,722.00   |
| Deer Park                    | 1188  |                                 | \$1,127.00   |
| Deerfield                    | 40  |                                 | \$231.00     |
| Grayslake                    | 6520  |                                 | \$5,286.00   |
| Green Oaks                   | 746   |                                 | \$782.00     |
| Gurnee                       | 8379  |                                 | \$6,736.00   |
| Hawthorn Woods               | 3469  |                                 | \$2,906.00   |
| Kildeer                      | 2689  |                                 | \$2,297.00   |
| Lake Forest                  | 107   |                                 | \$283.00     |
| Lake Zurich                  | 1812  |                                 | \$1,613.00   |
| Libertyville                 | 5601  | 4                               | \$14,488.00  |
| Lincolnshire                 | 2111  |                                 | \$1,847.00   |
| Lindenhurst                  | 2865  | 2                               | \$7,595.00   |
| Park City                    | 253   |                                 | \$397.00     |
| Riverwoods                   | 1395  |                                 | \$1,288.00   |
| Round Lake Beach             | 400   |                                 | \$512.00     |
| Third Lake                   | 516   |                                 | \$602.00     |
| Vernon Hills                 | 5025  |                                 | \$4,120.00   |
| Applied Technologies         |   |                                 | \$200.00     |
| Christopher Burke Engrg      |   |                                 | \$200.00     |
| Hey & Assoc.                 |   |                                 | \$200.00     |
| Lake County (Includes DOT)   | 29560   | 24.1                            | \$25,000.00  |
| Lake County Forest Preserves | 16334   |                                 | \$12,941.00  |
| Lake County Public Works     |   |                                 | \$60,000.00  |
| Lake County SMC              |   |                                 | \$200.00     |
| Libertyville Township        |   |                                 | \$2,583.00   |
| NSWRD                        | 0   | 45.6                            | \$83,126.00  |
| Sierra Club                  |   |                                 | \$200.00     |
| Vernon Hills Park District   |   |                                 | \$200.00     |
| Vernon Township              |   |                                 | \$1,782.00   |
|                              |   |                                 | \$242,464.00 |

Updated annually according to the DRWW bylaws.

**EXHIBIT D**

**BYLAWS OF THE DES PLAINES RIVER WATERSHED WORKGROUP (Revised - 8/16/18)**

**ARTICLE I - Name**

The name of this organization is the Des Plaines River Watershed Workgroup of Lake County, hereinafter referred to as "DRWW" or the "Workgroup."

**ARTICLE II - Mission, Goal and Objectives**

Section 1. Mission. The mission of the Workgroup is to bring together a diverse coalition of stakeholders to work together to preserve and enhance water quality in the Des Plaines River and its tributaries within Lake County, Illinois.

Section 2. Goal. The goal of the Workgroup is to improve water quality in the Des Plaines River and its tributaries through monitoring, project and best practices implementation, and education and outreach that will achieve attainment of water quality standards and designated uses for the watershed.

Section 3. Objectives. The objectives of the Workgroup are:

- a. Develop and implement a watershed-based plan.
- b. Develop and implement a comprehensive monitoring program that will include chemical, physical and biological components to accurately identify the quality of the river ecosystems as well as stressors associated with non-attainment of water quality standards and designated uses.
- c. Identify point and nonpoint source pollution issues and develop and implement short-term and long-term strategies to address these issues.
- d. Develop and implement long-term viable management strategies that accurately address water quality problems identified by the monitoring program.
- e. Develop and maintain appropriate water quality models of the watersheds to assess attainment of these objectives.

**ARTICLE III - Membership**

Section 1. Membership in the Workgroup shall be classified as an Agency Member, an Associate Member, or an Individual Member.

Section 2. Agency Member – Any public agency holding an NPDES permit for a discharge into the Des Plaines River and its tributaries, either from a publicly owned treatment works or from a public separate storm sewer system, and the Lake County Forest Preserve District. An Agency Member shall be entitled to between four and eighteen votes at Workgroup meetings, based on dues paid according to the following tiers:

| <b>Dues Range</b> | <b>Number of Votes</b>                            |
|-------------------|---|
| \$100-9,999       | 4 votes   |
| \$10,000-19,999   | 6 votes   |
| \$20,000-29,999   | 8 votes   |
| \$30,000-39,999   | 10 votes  |
| \$40,000-49,999   | 12 votes  |
| \$50,000-59,999   | 14 votes  |
| \$60,000-69,999   | 16 votes  |
| \$70,000-79,999   | 18 votes plus 2 votes for each additional \$9,999 |

Section 3. Associate Member – An agency, organization or company interested in the mission and objectives of the Workgroup that is not eligible for membership as an Agency member. An Associate Member shall be entitled to two votes at Workgroup meetings.

Section 4. Individual Member - An individual interested in the mission, goals, and objectives of the Workgroup who is not eligible for membership as an Agency Member or Associate Member. An Individual Member is entitled to one vote at Workgroup meetings.



Section 5. Admission to any membership category will be determined by the Executive Board. Upon receipt of a written request for admission, the Executive Board may approve said membership which will become effective upon payment of the appropriate dues and will remain in effect as long as the member remains in good standing with the Workgroup.

Section 6. Each Agency and Associate Member shall designate one or more Authorized Delegate(s) to cast its votes at Workgroup meetings. The Authorized Delegate(s) may be any designated employee of the Agency or representative of an Associate Member.

#### **ARTICLE IV - Dues and Fiscal Year**

Section 1. Annual dues are due on or before June 1 of each year. If a member fails to pay dues by August 1 or reach an agreement regarding the terms of dues with the Executive Board, the member's voting rights will be suspended.

Section 2. The annual dues for all members shall be set each year by recommendation of the Executive Board to the membership and approval by the membership at the Annual Meeting. Annual dues may consist of fees or approved in-kind services such as the provision of stream monitoring or other services by members to the Workgroup or a combination of fees and services, as determined by the Executive Board.

Section 3. Any member may withdraw from membership in the Workgroup by advising the President of its intent to do so.

Section 4. The fiscal year of the Workgroup shall be aligned with the administrative agent's fiscal year. Currently, LCSMC is the fiscal agent, and the fiscal year shall commence on December 1 and conclude on the last day of November of the following calendar year. The current fiscal year budget will be approved by the Executive Board at their January meeting and distributed to the Members at the Annual Meeting.

#### **ARTICLE V - Officers and Executive Board**

Section 1. Officers. Workgroup officers shall include a President, Vice President, Treasurer and Secretary. All officers must be the Authorized Delegate of an Agency Member.

Section 2. Executive Board. The Workgroup shall be governed by an Executive Board comprised of the four officers, a member at large, and the chairpersons of the two standing committees – Monitoring/WQ Improvements Committee, and Lakes Committee. Each member of the Executive Board shall be entitled to discuss and vote on matters coming before the Board. The immediate past president of the Workgroup shall be an ex-officio, nonvoting member of the Executive Board. A meeting of the Executive Board may be called upon a minimum 10 days written notice by either the President or three members of the Executive Board. Four members of the Executive Board present at any meeting thereof shall constitute a quorum. A simple majority vote of a quorum shall control the policies and actions of the Executive Board.

Section 3. The President shall have general supervision of the affairs of the Workgroup and the Executive Board, shall preside at their respective meetings, and have the responsibility of overseeing contracts.

Section 4. The succession of officers is President, Vice President, Treasurer and Secretary, whom shall act in the absence of the ranking officer.

Section 5. The Administrative Agent shall receive and deposit all Workgroup monies, pay all bills approved by the Executive Board, and be responsible for all banking and reporting requirements to state and federal agencies and shall maintain the records of the Workgroup, keep and distribute minutes and records of attendance of all meetings, and distribute all Workgroup notices and make a report to the membership of all such activities at the Annual Meeting.

Section 6. Executive Board Members may designate an alternate to attend meetings in their absence, who shall also be an Agency Member employee. An alternate shall be approved by majority vote at any Workgroup meeting, prior to being able to vote. The alternate would not assume the duties of the Officer, but rather constitute a voting member to enable a quorum for conducting business. If the Executive Board Member resigns or leaves the Executive Board, the term of the designated alternate shall also end.

Section 7. The President shall serve as the principal spokesperson for the Workgroup and shall represent DRWW in discussions of mutual concern with governmental agencies or associations.

Section 8. The Executive Board, through its administrative agent, shall have the authority to enter into contracts and make payments for products and services reflected in the annual budget and to enter into agreements for grant funding for Workgroup purposes.

Section 9. Together the President and the Treasurer shall have the authority to authorize payments up to \$5,000 for goods and services that have been approved by the Executive Board.

Section 10. The Executive Board may authorize expenditures less than \$10,000 which are an emergency and cannot be delayed for review at a Workgroup meeting.

#### **ARTICLE VI - Elections and Terms of Office**

Section 1. The Executive Board shall nominate individuals for the offices of President, Vice President, Treasurer, Secretary and member at large positions. The Executive Board shall attempt to nominate individuals who represent a cross section of Workgroup members. Prior to, the Annual meeting of each odd numbered year, the President shall send to the membership a complete list of Executive Board nominees.

Section 2. Petition(s) presenting additional nominees for the Executive Board may be submitted to the Executive Board by Workgroup members no later than 10 calendar days before the Annual Meeting. A petition must contain the signatures of Workgroup members representing a minimum of three Agency Members and each nominee's signature.

Section 3. Election of the Executive Board shall occur during the Annual Meeting every odd numbered year, by a simple majority of votes cast per the voting structure in Article III. Only the names of the individuals who have been nominated according to the procedures described herein will be considered, and no nominations shall be permitted from the floor.

Section 4. The President, Vice President, Treasurer, Secretary, and member at large, shall be elected to two year terms, beginning at the close of each Annual Meeting.

Section 5. No one shall be eligible to serve as President until he or she has been a member of the Executive Board for one year.

Section 6. Board members may resign by submitting a letter to the President. If a Board Member's employment or group representation changes, their representation on the Board shall be reviewed by the Executive Committee. Vacancies shall be filled by appointment of the Executive Board until a successor is duly elected at the next Annual Meeting.

#### **ARTICLE VII - Workgroup Meetings**

Section 1. Workgroup meetings shall be held as needed but at least quarterly. Notice of Workgroup meetings and proposed meeting agendas will be provided to all Workgroup members at least 7 days prior to the meeting.

Section 2. An Annual Meeting of DRWW shall be held each year, at a date, time and location to be determined by the Executive Board.

Section 3. Special Meetings of Workgroup members may be called by the President or the Executive Board or upon the written request of Workgroup members representing 25% addressed to the President or Executive Board.

Section 4. All meetings of the Workgroup shall be held within the watershed.

Section 5. Each Authorized Delegate and Individual member of the Workgroup shall be entitled to vote at Workgroup meetings.

Section 6. In the event an Authorized Delegate or Individual Member is unable to attend any Workgroup meeting, said member may designate, in writing, a proxy to cast the Member's vote(s) at a Workgroup meeting.

Section 7. At any Workgroup meeting, the presence of Workgroup members representing 25%, either in person or by proxy, shall constitute a quorum. A simple majority vote of a quorum of the Workgroup shall control the policies and actions of the Workgroup.

Section 8. The Workgroup shall maintain an informal atmosphere to ensure maximum participation of all members. However, to insure orderly procedure, Robert's Rules of Order may be invoked at any DRWW meetings.

#### **ARTICLE VIII - Committees**

Section 1. The Workgroup shall have two standing committees – Monitoring/WQ Improvements Committee and Lakes Committee. The Executive Board may appoint such other committees as are necessary.

Section 2. The Monitoring/WQ Improvements Committee shall oversee the monitoring program and WQ Improvement initiatives/projects for the Workgroup and make appropriate recommendations for program revisions to the Executive Board.

Section 3. The Lakes Committee shall assist in identifying lakes tributary to the Des Plaines River that impact the

water quality of the Des Plaines River and make appropriate recommendations for program revisions to the Executive Board.

Section 4. The President shall appoint the chairperson for all DRWW committees. The President shall attempt to appoint individuals as committee chairpersons who represent a cross section of Workgroup members. Each committee chairperson shall submit to the President a list of committee members. DRWW committee members may include any Workgroup member.

Section 5. The term of office of the chairperson of any DRWW committee shall be two years.

#### **ARTICLE IX - Amendments**

Any revision to the Bylaws shall be submitted to the Executive Board for their review. After the review by the Executive Board, it shall be submitted to the membership for a 30 day review and comment period. Any revision is effective after the comment and review period and with approval of a super majority at a following Executive Board meeting.

#### **Article X - DISSOLUTION**

A motion to dissolve the Workgroup may be made by any Authorized Delegate at a regularly scheduled meeting at which a quorum is present. Upon receiving a proper second to the motion, the President shall defer action on the motion until the next regularly scheduled meeting of the Workgroup. All members shall be notified by mail of the pending motion to dissolve. At the next regularly scheduled meeting, the President shall, after discussion, call for a roll call vote on the motion to dissolve, which shall require the affirmative vote of 2/3 of all Workgroup member votes.

**DRWW**

**Des Plaines River Watershed Workgroup-Expense-Revenue Activity  
For Period December 2020 - November 2021**

500 W Winchester Rd  
Libertyville, Illinois 60048  
Phone 847 377 7700

[kwoolfrod@lakecountyil.gov](mailto:kwoolfrod@lakecountyil.gov)  
[astrelcheck@lakecountyil.gov](mailto:astrelcheck@lakecountyil.gov)

| <b>Ending Balance</b>               |                       |                      |                       |                          |                               |
|-------------------------------------|-----------------------|----------------------|-----------------------|--------------------------|-------------------------------|
| <b>Revenues Received</b>            | <b>Current Period</b> | <b>Date Received</b> | <b>Date Deposited</b> | <b>DRWW Ratification</b> |                               |
| Carryover                           | \$ 61,011.85          |                      |                       | 4/15/2021                |                               |
| Hey and Associates                  | \$ 200.00             | 2/23/2021            | 2/23/2021             | 4/15/2021                |                               |
| Village of Third Lake               | \$ 677.47             | 2/23/2021            | 2/23/2021             | 4/15/2021                |                               |
| Libertyville Township               | \$ 2,904.52           | 3/3/2021             | 3/3/2021              | 4/15/2021                |                               |
| Kildeer                             | \$ 2,583.39           | 3/5/2021             | 3/5/2021              | 4/15/2021                |                               |
| Round Lake Park                     | \$ 256.47             | 3/8/2021             | 3/11/2021             | 4/15/2021                |                               |
| City of Park City                   | \$ 446.80             | 3/8/2021             | 3/11/2021             | 4/15/2021                |                               |
| Fremont Township                    | \$ 296.86             | 3/9/2021             | 3/9/2021              | 4/15/2021                |                               |
| Lake Zurich                         | \$ 1,814.18           | 3/9/2021             | 3/9/2021              | 4/15/2021                |                               |
| Ela Township                        | \$ 265.38             | 3/10/2021            | 3/10/2021             | 4/15/2021                |                               |
| Lincolnshire                        | \$ 2,076.43           | 3/12/2021            | 3/18/2021             | 4/15/2021                |                               |
| NSWRD                               | \$ 93,473.12          | 3/16/2021            | 3/18/2021             | 4/15/2021                |                               |
| SMC                                 | \$ 200.00             | 2/28/2021            | 2/28/2021             | 4/15/2021                |                               |
| LCDOT                               | \$ 28,111.88          | 2/28/2021            | 2/28/2021             | 4/15/2021                |                               |
| Vernon Hills Park District          | \$ 200.00             | 3/29/2021            | 4/1/2021              | 4/15/2021                |                               |
| Sierra Club                         | \$ 200.00             | 3/29/2021            | 4/1/2021              | 4/15/2021                |                               |
| Village of Deerfield                | \$ 259.98             | 3/18/2021            | 4/1/2021              | 4/15/2021                | NBWW batch#420001495, tranfer |
| County of Lake                      | \$ 67,468.51          | 4/2/2021             | 4/8/2021              | 4/15/2021                |                               |
| Village of Round Lake Beach         | \$ 575.73             | 4/15/2021            | 4/23/2021             | 6/17/2021                |                               |
| Town of Vernon                      | \$ 2,003.81           | 4/15/2021            | 4/23/2021             | 6/17/2021                |                               |
| Village of Buffalo Grove            | \$ 7,906.96           | 4/27/2021            | 4/29/2021             | 6/17/2021                |                               |
| Village of Gurnee                   | \$ 7,574.04           | 5/11/2021            | 5/13/2021             | 6/17/2021                |                               |
| Village of Grayslake                | \$ 5,943.53           | 5/11/2021            | 5/13/2021             | 6/17/2021                |                               |
| Village of Libertyville             | \$ 16,291.60          | 5/14/2021            | 5/20/2021             | 6/17/2021                |                               |
| Village of Lindenhurst              | \$ 8,540.39           | 5/17/2021            | 5/20/2021             | 6/17/2021                |                               |
| Village fo Deer Park                | \$ 1,266.88           | 5/26/2021            | 5/28/2021             | 6/17/2021                |                               |
| City of Zion                        | \$ 1,341.43           | 5/26/2021            | 5/28/2021             | 6/17/2021                |                               |
| City of Lake Forest                 | \$ 318.74             | 6/1/2021             | 6/4/2021              | 6/17/2021                |                               |
| Geosyntec                           | \$ 200.00             | 6/2/2021             | 6/2/2021              | 6/17/2021                |                               |
| Village of Vernon Hills             | \$ 4,632.28           | 6/4/2021             | 6/4/2021              | 6/17/2021                |                               |
| CBBEL                               | \$ 200.00             | 6/7/2021             | 6/7/2021              | 6/17/2021                |                               |
| LC Forest Preserve                  | \$ 14,551.51          | 6/8/2021             | 6/8/2021              | 6/17/2021                |                               |
| Village of Riverwoods               | \$ 1,448.44           | 6/21/2021            | 6/25/2021             | 7/15/2021                |                               |
| Village of Old Mill Creek           | \$ 200.00             | 7/15/2021            | 7/23/2021             | 7/15/2021                |                               |
| Village of Hawthorn Woods           | \$ 3,267.52           | 7/21/2021            | 7/21/2021             | 8/19/2021                |                               |
| Applied Technologies                | \$ 200.00             | 7/21/2021            |                       | 8/19/2021                |                               |
| Village of Long Grove               | \$ 5,583.02           | 8/17/2021            | 8/20/2021             |                          |                               |
| Deuchler Engineering                | \$ 200.00             | 8/30/2021            |                       |                          |                               |
| <b>Other Contributions Received</b> | \$ 283,480.87         |                      |                       |                          |                               |
| Total Received:                     | \$ -                  |                      |                       |                          |                               |
| <b>Total Received + Carryover</b>   | \$ 344,492.72         |                      |                       |                          |                               |

| <b>Expenditures Paid:</b>      |               |           |           |           |               |
|--------------------------------|---------------|-----------|-----------|-----------|---------------|
| NSWRD                          | \$ 6,551.76   | 4/5/2021  | 4/23/2021 | 6/17/2021 |               |
| LCHD                           | \$ 17,596.47  | 4/22/2021 | 4/23/2021 | 6/17/2021 |               |
| SMC Admin                      | \$ 10,679.50  | 4/22/2021 | 4/23/2021 | 6/17/2021 |               |
| MBI                            | \$ 11,014.57  | 5/17/2021 | 5/27/2021 | 6/17/2021 |               |
| NSRWD                          | \$ 6,551.76   | 5/24/2021 | 6/29/2021 | 6/17/2021 |               |
| Geosyntec                      | \$ 5,444.50   | 6/4/2021  | 6/29/2021 | 6/17/2021 |               |
| Geosyntec                      | \$ 9,200.25   | 6/7/2021  | 6/29/2021 | 6/17/2021 |               |
| SMC Admin                      | \$ 7,864.50   | 6/15/2021 | 6/24/2021 | 6/17/2021 |               |
| LCHD                           | \$ 13,732.03  | 6/30/2021 | 7/15/2021 | 7/15/2021 |               |
| MBI                            | \$ 4,527.01   | 7/1/2021  | 7/15/2021 | 7/15/2021 |               |
| Geosyntec                      | \$ 7,300.65   | 7/8/2021  | 7/15/2021 | 7/15/2021 |               |
| Geosyntec                      | \$ 7,521.75   | 8/9/2021  |           | 8/19/2021 |               |
| MBI                            | \$ 4,994.28   | 8/18/2021 | 9/10/2021 |           |               |
| Geosyntec                      | \$ 11,188.25  | 9/10/2021 |           |           |               |
| <b>Total Expenditures Paid</b> | \$ 124,167.28 |           |           |           |               |
| <b>Revenue-Expenditures</b>    |               |           |           |           | \$ 220,325.44 |



P.O. Box 21561  
Columbus OH 43221-0561

# Invoice

| Date      | Invoice # |
|-----------|-----------|
| 8/17/2021 | 1907      |

|   |
|---|
| Bill To   |
| DesPlaines Watershed Workgroup<br>Kurt Woolford<br>500 West Winchester Road<br>Libertyville, IL 60048 |

| PO # | Client's Job |
|------|--------------|
|      | DRWW21       |

| Item                  | Description                                      | Rate     | Period           | Hours | Qty | Amount   |
|-----------------------|--|----------|------------------|-------|-----|----------|
| Professional Services | Task 3: Biological Laboratory Personnel Costs    | 4,090.30 | 6/27/21 - 8/7/21 |       |     | 4,090.30 |
| Equipment Usage       | Task 3 - Usage Fees                              | 150.00   |                  |       |     | 150.00   |
| Professional Services | Task 4: Data Management (Year 4) Personnel Costs | 753.98   |                  |       |     | 753.98   |
|                       | 2021 DRWW Bioassessment Monitoring               |          |                  |       |     |          |

|   |                   |            |
|---|-------------------|------------|
| Please contact Allison Boehler at 614-457-6000 with questions. Thank you! | <b>BalanceDue</b> | \$4,994.28 |
|---|-------------------|------------|

Please remit to the Midwest Biodiversity Institute, Inc., at the address provided above. The Institute is a 501(c)(3) company incorporated in Ohio. Tax ID# 31.1559845

| Phone #    | Fax #        |
|------------|--------------|
| 6147716278 | 614.457.6005 |



PLEASE REMIT PAYMENT TO:  
Geosyntec Consultants, Inc.

900 Broken Sound Parkway NW, Suite 200  
Boca Raton, Florida 33487-3575 USA  
Tel (561) 995-0900 Fax (561) 995-0925

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DES PLAINES RIVER WATERSHED WORKGRP  
500 W. WINCHESTER ROAD  
LIBERTYVILLE, IL 60048  
Attention: KURT WOOLFORD

Invoice #: 181445587  
Invoice Date: 9/7/2021  
Project: MOW5554  
Project Name: DRWW NARP DEVELOPMENT

---

For Professional Services Rendered through transaction date: 8/31/2021

IF YOU HAVE QUESTIONS ABOUT THIS INVOICE, PLEASE CONTACT RISHAB MAHAJAN AT 630-203-3361

|                       |                      |
|-----------------------|----------------------|
| Professional Services | \$4,648.25           |
| Reimbursable Expenses | \$6,540.00           |
| Current Invoice       | -----<br>\$11,188.25 |

**\*\*Amount Due This Invoice \*\*** **\$11,188.25**

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**Statement**

|                 |             |                                     |                    |
|-----------------|-------------|-------------------------------------|--------------------|
| Prior Billings  | \$29,467.15 | Project Budget                      | \$99,700.00        |
| Current Invoice | \$11,188.25 | Expended to Date                    | \$40,655.40        |
| Billed To Date  | \$40,655.40 | Contract Balance                    | \$59,044.60        |
| Paid To Date    | \$29,467.15 | <b>**Amount Due This Invoice **</b> | <b>\$11,188.25</b> |

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536 E. Michigan Avenue  
 Suite 300  
 Kalamazoo, MI 49007

# Invoice

|          |           |
|----------|-----------|
| DATE     | INVOICE # |
| 9/1/2021 | 21-211    |

**BILL TO:**

Geosyntec  
 Attn: Rishab Mahajan  
 and Terri Eder  
 1420 Kensington Rd., Suite 103  
 Oak Brook, Illinois 60523

|                  |        |
|------------------|--------|
| P.O. NO.         | TERMS  |
| Project# MOW5554 | Net 30 |

| DESCRIPTION  | QTY  | RATE   | AMOUNT   |
|--|------|--------|----------|
| Environmental Engineer I - Task 1  | 1    | 100.00 | 100.00   |
| Professional Engineer - Task 2   | 15.5 | 160.00 | 2,480.00 |
| Senior Scientist/ Principal - Task 2   | 1    | 210.00 | 210.00   |
| Environmental Engineer I - Task 2  | 33   | 100.00 | 3,300.00 |
| Environmental Engineer I - Task 3  | 4.5  | 100.00 | 450.00   |
| <p>This invoice is for professional services rendered between Aug. 1, 2021 &amp; Aug. 31, 2021, as related to Geosyntec, Des Plaines, SWAT Modeling. Project# MOW5554.</p> |      |        |          |

Please remit payment to Kieser & Associates, LLC  
 For questions, please contact Becky Hough.

|              |              |
|--------------|--------------|
| <b>Total</b> | USD 6,540.00 |
|--------------|--------------|

|                |                |
|----------------|----------------|
| Phone #        | Fax #          |
| (269) 344-7117 | (269) 344-2493 |



**Kieser & Associates, LLC**  
**Time by Job Detail**  
August 2021

| Geosyntec Des Plaines SWAT   | Date       | Name         | Duration     | Cost            | Notes  |
|--|------------|--------------|--------------|-----------------|--|
| <b>Geosyntec Des Plaines SWAT - Task 1: Model Background</b>       |            |              |              |                 |  |
|  | 08/02/2021 | Foster, Mike | 1.00         | 100.00          | SWAT model data collation  |
| <b>Total - Geosyntec Des Plaines SWAT - Task 1:</b>                |            |              | <b>1.00</b>  | <b>100.00</b>   |  |
| <b>Geosyntec Des Plaines SWAT - Task 2: SWAT Model Development</b> |            |              |              |                 |  |
|  | 08/16/2021 | Fang, Andrew | 5.00         | 800.00          | Call with Andrew Fang on SWAT model  |
|  | 08/17/2021 | Fang, Andrew | 6.00         | 960.00          | Call with Andrew Fang on SWAT model  |
|  | 08/18/2021 | Fang, Andrew | 0.50         | 80.00           | Call with Andrew Fang on SWAT model  |
|  | 08/20/2021 | Fang, Andrew | 1.00         | 160.00          | Call with Andrew Fang on SWAT model  |
|  | 08/23/2021 | Fang, Andrew | 2.00         | 320.00          | Model Development  |
|  | 08/26/2021 | Fang, Andrew | 1.00         | 160.00          | Model Development  |
|  | 08/17/2021 | Kieser, Mark | 1.00         | 210.00          | Model Updates Discussion   |
|  | 08/04/2021 | Foster, Mike | 1.00         | 100.00          | SWAT model development   |
|  | 08/12/2021 | Foster, Mike | 2.00         | 200.00          | SWAT model development   |
|  | 08/13/2021 | Foster, Mike | 6.00         | 600.00          | SWAT model development   |
|  | 08/14/2021 | Foster, Mike | 8.00         | 800.00          | SWAT model development and testing   |
|  | 08/16/2021 | Foster, Mike | 1.00         | 100.00          | Call with Andrew Fang on SWAT model  |
|  | 08/16/2021 | Foster, Mike | 2.00         | 200.00          | SWAT model development   |
|  | 08/17/2021 | Foster, Mike | 2.00         | 200.00          | SWAT model development   |
|  | 08/18/2021 | Foster, Mike | 1.00         | 100.00          | Call with Andrew Fang on SWAT model  |
|  | 08/19/2021 | Foster, Mike | 2.00         | 200.00          | DRWW call  |
|  | 08/26/2021 | Foster, Mike | 1.00         | 100.00          | Call with Andrew Fang on SWAT model calibration  |
|  | 08/27/2021 | Foster, Mike | 1.00         | 100.00          | Point source data review and collation   |
|  | 08/31/2021 | Foster, Mike | 6.00         | 600.00          | Convert point source data to SWAT files. Update simulation files to load & route point |
| <b>Total - Geosyntec Des Plaines SWAT - Task 2:</b>                |            |              | <b>49.50</b> | <b>5,990.00</b> |  |
| <b>Geosyntec Des Plaines SWAT - Task 3: Model Presentations</b>    |            |              |              |                 |  |
|  | 08/16/2021 | Foster, Mike | 0.50         | 50.00           | Call with Geosyntec on project status and presentation to clients                      |
|  | 08/17/2021 | Foster, Mike | 2.00         | 200.00          | SWAT model preliminary output and preparation for call with clients                    |
|  | 08/18/2021 | Foster, Mike | 1.00         | 100.00          | Presentation development and preparation   |
|  | 08/19/2021 | Foster, Mike | 1.00         | 100.00          | Slide edits and call prep  |
| <b>Total - Geosyntec Des Plaines SWAT - Task 3:</b>                |            |              | <b>4.50</b>  | <b>450.00</b>   |  |

**Kieser & Associates, LLC**  
**Time by Job Detail**  
August 2021

| <b>Geosyntec Des Plaines SWAT</b>          | <b>Date</b> | <b>Name</b> | <b>Duration</b>     | <b>Cost</b>            | <b>Notes</b> |
|--|-------------|-------------|---------------------|------------------------|--------------|
| <b>Total - Geosyntec Des Plaines SWAT:</b> |             |             | <u><b>55.00</b></u> | <u><b>6,540.00</b></u> |              |

**AGENCY MEMBERS**

See 2021 Dues Spreadsheet

**Scenario 1 - Even Split**

**Scenario 2 - Split based on %**

| Name                               | Area within the Des Plaines River Watershed (acres) | Design Average Flow (MGD) | Fixed Component | WTP Contribution 66% | Acreage Contribution 33% | Base Entity Dues (no per capita cap) | Total Population (Lake County GIS) | Per Capita Dues | Base Entity Dues w/ Per Capita Adjustment | Percentage of Overall Dues w/o LCFPD | NARP Special Assessment Dues (Based on 2021 12.4%) | 2021 Dues            | LCFPD Addition (\$14,301.51/27) | 2022 Potential Dues based on even split | LCFPD Addition     | 2022 Potential Dues based on Percentage |
|------------------------------------|---|---------------------------|-----------------|----------------------|--------------------------|--------------------------------------|------------------------------------|-----------------|---|--------------------------------------|--|----------------------|---------------------------------|---|--------------------|---|
| Buffalo Grove                      | 4,515   | n/a                       | \$200           | \$0                  | \$3,522                  | \$ 3,722                             | 27,532                             | \$ 0.14         | \$3,721.70                                | 1.59%                                | 463.26   | \$ 7,906.96          | \$ 529.69                       | \$4,714.65                              | \$ 227.05          | \$4,412.01                              |
| Deer Park                          | 1,188   | n/a                       | \$200           | \$0                  | \$927                    | \$ 1,127                             | 3,182                              | \$ 0.35         | \$1,126.64                                | 0.48%                                | \$140.24   | \$ 1,266.88          | \$ 529.69                       | \$ 1,796.57                             | \$ 68.73           | \$1,335.61                              |
| Deerfield                          | 40  | n/a                       | \$200           | \$0                  | \$31                     | \$ 231                               | 18,056                             | \$ 0.01         | \$231.20                                  | 0.10%                                | \$28.78  | \$ 259.98            | \$ 529.69                       | \$ 789.67                               | \$ 14.10           | \$274.08                                |
| Grayslake                          | 6,520   | n/a                       | \$200           | \$0                  | \$5,086                  | \$ 5,286                             | 21,198                             | \$ 0.25         | \$5,285.60                                | 2.25%                                | \$657.93   | \$ 5,943.53          | \$ 529.69                       | \$ 6,473.22                             | \$ 322.45          | \$6,265.98                              |
| Gurnee                             | 8,379   | n/a                       | \$200           | \$0                  | \$6,536                  | \$ 6,736                             | 31,014                             | \$ 0.22         | \$6,735.62                                | 2.87%                                | \$838.42   | \$ 7,574.04          | \$ 529.69                       | \$ 8,103.73                             | \$ 410.91          | \$7,984.95                              |
| Hawthorn Woods                     | 3,469   | n/a                       | \$200           | \$0                  | \$2,706                  | \$ 2,906                             | 7,848                              | \$ 0.37         | \$2,905.82                                | 1.24%                                | \$361.70   | \$ 3,267.52          | \$ 529.69                       | \$ 3,797.21                             | \$ 177.27          | \$3,444.80                              |
| Kildeer                            | 2,689   | n/a                       | \$200           | \$0                  | \$2,097                  | \$ 2,297                             | 4,020                              | \$ 0.57         | \$2,297.42                                | 0.98%                                | \$285.97   | \$ 2,583.39          | \$ 529.69                       | \$ 3,113.08                             | \$ 140.16          | \$2,723.55                              |
| Lake County Public Works           | 0   | 24.1                      | \$400           | \$59,764             | \$0                      | \$ 60,164                            | n/a                                | n/a             | \$60,000.00                               | 25.59%                               | \$7,468.51   | \$ 67,468.51         | \$ 529.69                       | \$ 67,998.20                            | \$ 3,660.37        | \$71,128.88                             |
| Lake County (Unincorporated & DOT) | 29,560  | 24.1                      | \$400           | \$0                  | \$23,057                 | \$ 23,457                            | n/a                                | n/a             | \$25,000.00                               | 10.66%                               | \$3,111.88   | \$ 28,111.88         | \$ 529.69                       | \$ 28,641.57                            | \$ 1,525.16        | \$29,637.03                             |
| Lake Forest                        | 107   | n/a                       | \$200           | \$0                  | \$83                     | \$ 283                               | 19,378                             | \$ 0.01         | \$283.46                                  | 0.12%                                | \$35.28  | \$ 318.74            | \$ 529.69                       | \$ 848.43                               | \$ 17.29           | \$336.04                                |
| Lake Zurich                        | 1,812   | n/a                       | \$200           | \$0                  | \$1,413                  | \$ 1,613                             | 19,646                             | \$ 0.08         | \$1,613.36                                | 0.69%                                | \$200.82   | \$ 1,814.18          | \$ 529.69                       | \$ 2,343.87                             | \$ 98.43           | \$1,912.61                              |
| Libertyville                       | 5,601   | 4                         | \$200           | \$9,919              | \$4,369                  | \$ 14,488                            | 20,375                             | \$ 0.22         | \$14,488.18                               | 6.18%                                | \$1,803.42   | \$ 16,291.60         | \$ 529.69                       | \$ 16,821.29                            | \$ 883.87          | \$17,175.47                             |
| Lincolnshire                       | 2,111   | n/a                       | \$200           | \$0                  | \$1,647                  | \$ 1,847                             | 7,282                              | \$ 0.25         | \$1,846.58                                | 0.79%                                | \$229.85   | \$ 2,076.43          | \$ 529.69                       | \$ 2,606.12                             | \$ 112.65          | \$2,189.09                              |
| Lindhurst                          | 2,865   | 2                         | \$400           | \$4,960              | \$2,235                  | \$ 7,595                             | 14,481                             | \$ 0.52         | \$7,595.00                                | 3.24%                                | \$945.39   | \$ 8,540.39          | \$ 529.69                       | \$ 9,070.08                             | \$ 463.34          | \$9,003.73                              |
| Long Grove                         | 7,759   | n/a                       | \$200           | \$0                  | \$6,052                  | \$ 6,252                             | 8,275                              | \$ 0.76         | \$4,965.00                                | 2.12%                                | \$618.02   | \$5,583.02           | \$ 529.69                       | \$ 6,112.71                             | \$ 302.90          | \$5,885.92                              |
| North Shore Sanitary District      | n/a   | 45.6                      | \$400           | \$113,081            | \$0                      | \$ 83,126                            | n/a                                | n/a             | \$83,126.00                               | 35.46%                               | \$10,347.12  | \$ 93,473.12         | \$ 529.69                       | \$ 94,002.81                            | \$ 5,071.20        | \$98,544.33                             |
| Park City                          | 253   | n/a                       | \$200           | \$0                  | \$197                    | \$ 397                               | 7,570                              | \$ 0.05         | \$397.34                                  | 0.17%                                | \$49.46  | \$ 446.80            | \$ 529.69                       | \$ 976.49                               | \$ 24.24           | \$471.04                                |
| Riverwoods                         | 1,395   | n/a                       | \$200           | \$0                  | \$1,088                  | \$ 1,288                             | 3,665                              | \$ 0.35         | \$1,288.10                                | 0.55%                                | \$160.34   | \$ 1,448.44          | \$ 529.69                       | \$ 1,978.13                             | \$ 78.58           | \$1,527.02                              |
| Round Lake Beach                   | 400   | n/a                       | \$200           | \$0                  | \$312                    | \$ 512                               | 27,835                             | \$ 0.02         | \$512.00                                  | 0.22%                                | \$63.73  | \$ 575.73            | \$ 529.69                       | \$ 1,105.42                             | \$ 31.24           | \$606.97                                |
| Round Lake Park                    | 36  | n/a                       | \$200           | \$0                  | \$28                     | \$ 228                               | 7,469                              | \$ 0.03         | \$228.08                                  | 0.10%                                | \$28.39  | \$ 256.47            | \$ 529.69                       | \$ 786.16                               | \$ 13.91           | \$270.38                                |
| Third Lake                         | 516   | n/a                       | \$200           | \$0                  | \$402                    | \$ 602                               | 1,184                              | \$ 0.51         | \$602.48                                  | 0.26%                                | \$74.99  | \$ 677.47            | \$ 529.69                       | \$ 1,207.16                             | \$ 36.76           | \$714.23                                |
| Vernon Hills                       | 5,025   | n/a                       | \$200           | \$0                  | \$3,920                  | \$ 4,120                             | 25,035                             | \$ 0.16         | \$4,119.50                                | 1.76%                                | \$512.78   | \$ 4,632.28          | \$ 529.69                       | \$ 5,161.97                             | \$ 251.32          | \$4,883.59                              |
| Zion                               | 1,273   | n/a                       | \$200           | \$0                  | \$993                    | \$ 1,193                             | 24,172                             | \$ 0.05         | \$1,192.94                                | 0.51%                                | \$148.49   | \$ 1,341.43          | \$ 529.69                       | \$ 1,871.12                             | \$ 72.78           | \$1,414.21                              |
| Ela Township                       | n/a   | n/a                       | n/a             | n/a                  | n/a                      | \$ 236                               | n/a                                | n/a             | \$236.00                                  | 0.10%                                | \$29.38  | \$ 265.38            | \$ 529.69                       | \$ 795.07                               | \$ 14.40           | \$279.77                                |
| Fremont Township                   | n/a   | n/a                       | n/a             | n/a                  | n/a                      | \$ 264                               | n/a                                | n/a             | \$264.00                                  | 0.11%                                | \$32.86  | \$ 296.86            | \$ 529.69                       | \$ 826.55                               | \$ 16.11           | \$312.97                                |
| Libertyville Township              | n/a   | n/a                       | n/a             | n/a                  | n/a                      | \$ 2,583                             | n/a                                | n/a             | \$2,583.00                                | 1.10%                                | \$321.52   | \$ 2,904.52          | \$ 529.69                       | \$ 3,434.21                             | \$ 157.58          | \$3,062.10                              |
| Vernon Township                    | n/a   | n/a                       | n/a             | n/a                  | n/a                      | \$ 1,782                             | n/a                                | n/a             | \$1,782.00                                | 0.76%                                | \$221.81   | \$ 2,003.81          | \$ 529.69                       | \$ 2,533.50                             | \$ 108.71          | \$2,112.53                              |
| <b>TOTALS</b>                      |   |                           |                 |                      |                          |                                      |                                    |                 |   |                                      |  | <b>\$ 267,329.37</b> | <b>\$14,301.63</b>              | <b>\$277,909.00</b>                     | <b>\$14,301.51</b> | <b>\$277,908.88</b>                     |

**AGENCY MEMBER (Exemption)**

|                                      |        |     |       |     |  |  |     |     |  |  |  |              |  |           |  |          |
|--------------------------------------|--------|-----|-------|-----|--|--|-----|-----|--|--|--|--------------|--|-----------|--|----------|
| Lake County Forest Preserve District | 16,334 | n/a | \$250 | \$0 |  |  | n/a | n/a |  |  |  | \$ 14,551.51 |  | \$ 250.00 |  | \$250.00 |
|--------------------------------------|--------|-----|-------|-----|--|--|-----|-----|--|--|--|--------------|--|-----------|--|----------|

**ASSOCIATE MEMBERS**

|                                  |  |  |                |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
|----------------------------------|--|--|----------------|--|--|--|--|--|--|--|--|----------------------|--|---------------------|--|---------------------|
| Applied Technologies, Inc.       |  |  | \$200          |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
| Christopher B. Burke Engineering |  |  | \$200          |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
| Geosyntec                        |  |  | \$200          |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
| Hey & Associates                 |  |  | \$200          |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
| Lake County SMC                  |  |  | \$200          |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
| Sierra Club                      |  |  | \$200          |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
| Vernon Hills Park District       |  |  | \$200          |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
| Village of Old Mill Creek        |  |  | \$200          |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
| <b>TOTALS</b>                    |  |  | <b>\$1,600</b> |  |  |  |  |  |  |  |  |                      |  |                     |  |                     |
| <b>TOTALS</b>                    |  |  |                |  |  |  |  |  |  |  |  | <b>\$ 283,480.88</b> |  | <b>\$279,759.00</b> |  | <b>\$279,758.88</b> |

|                    |       |         |
|--------------------|-------|---------|
| Associate Members  | \$200 | \$200   |
| Individual Members | \$100 | \$100   |
|                    |       | -\$0.13 |
|                    |       | -\$0.01 |

| FY2021 Des Plaines River Watershed Workgroup Budget (December 2020 thru November 2021) |                   | FY2019 Actual     | Projected FY2020  | Actual FY2020        | Projected FY2021     | Actual FY2021        | Projected FY2022     | Projected FY2023     |
|--|-------------------|-------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| REVENUE/Description  | Account #         |                   |                   |                      |                      |                      |                      |                      |
| Dues/Membership dues   | 775-4220010-46010 | \$ 242,595.00     | \$ 240,000.00     | \$ 245,246.00        | \$ 273,973.92        | \$ 283,480.87        | \$ 279,758.87        | \$ 279,758.87        |
| Expendable Carryover Addition  | 775-4220010-46010 | \$ 103,978.00     | \$ 6,967.12       | \$ 20,085.85         | \$ 45,724.15         | \$ 45,724.15         | \$ 40,656.15         | \$ 20,082.44         |
| NSWRD Contract Commitment  |                   |                   |                   |                      | \$ 15,287.40         | \$ 15,287.40         | \$ 15,287.40         | \$ 15,287.40         |
| Other State Funds/Illinois EPA 319 Grant   | 775-4220010-45350 |                   |                   |                      |                      |                      |                      |                      |
| Interest   | 775-4220010-48011 |                   |                   | \$ 89.17             |                      | \$ 49.75             |                      |                      |
| Other (FPD/LCDOT)  |                   |                   | -                 |                      |                      |                      |                      |                      |
| <b>Total Revenue</b>   |                   | <b>\$ 346,573</b> | <b>\$ 246,967</b> | <b>\$ 265,421.02</b> | <b>\$ 334,985.47</b> | <b>\$ 344,542.17</b> | <b>\$ 335,702.42</b> | <b>\$ 315,128.71</b> |
| EXPENSES/Description   |                   |                   |                   |                      |                      |                      |                      |                      |
| 2020 MBI - 1/3 WATERSHED SAMPLING  | 775-4220010-71310 |                   | -                 | -                    |                      |                      |                      |                      |
| 2020 MBI - New Sampling  | 775-4220010-71310 |                   | \$ 83,007.64      | \$ 84,753.87         |                      |                      |                      |                      |
| 2020 SubLabs - New Sampling  | 775-4220010-71310 |                   | \$ 83,736.00      | \$ 83,736.00         |                      |                      |                      |                      |
| 2020 SMC Administrative/GIS/Tech Support   | 775-4220010-79940 |                   | \$ 25,000.00      | \$ 25,000.00         |                      |                      |                      |                      |
| 2020 NARP Tasks-NSWRD  | 775-4220010-71150 |                   | \$ 26,207.00      | \$ 10,919.60         |                      |                      |                      |                      |
| 2021 MBI Sampling  | 775-4220010-71310 |                   |                   |                      | \$ 42,531.42         | \$ 20,535.86         | \$ 52,122.08         | \$ 45,271.09         |
| 2021 LCHD Sampling   | 775-4220010-71310 |                   |                   |                      | \$ 80,353.50         | \$ 31,328.50         | \$ 80,353.50         | \$ 80,353.50         |
| 2021 SMC Administrative/GIS/Tech Support   | 775-4220010-79940 |                   |                   |                      | \$ 25,000.00         | \$ 18,544.00         | \$ 25,000.00         | \$ 25,000.00         |
| 2021 NARP Tasks-NSWRD  | 775-4220010-71150 |                   |                   |                      | \$ 26,207.00         | \$ 13,103.52         | \$ 26,207.00         | \$ 15,287.40         |
| 2021 NARP Tasks-Geosyntec  | 775-4220010-71150 |                   |                   |                      | \$ 99,700.00         | \$ 40,655.40         | \$ 111,400.00        | \$ 98,900.00         |
| MBI IPS Model Trainings  |                   |                   |                   |                      | \$ 5,000.00          |                      | \$ 5,000.00          | \$ 5,000.00          |
| Education & Outreach Expenses  |                   |                   |                   |                      | \$ 250.00            |                      | \$ 250.00            | \$ 250.00            |
| <b>Expenses</b>  |                   | <b>\$ 339,606</b> | <b>\$ 217,951</b> | <b>\$ 204,409.47</b> | <b>\$ 279,041.92</b> | <b>\$ 124,167.28</b> | <b>\$ 300,332.58</b> | <b>\$ 270,061.99</b> |
| <i>Projected Unexpended Carryover</i>  |                   | <i>\$ 6,967</i>   | <i>\$ 29,016</i>  | <i>\$ 61,011.55</i>  | <i>\$ 55,943.55</i>  | <i>\$ 220,374.89</i> | <i>\$ 35,369.84</i>  | <i>\$ 45,066.72</i>  |

Funds spent prior to May 1st

|         |              |
|---------|--------------|
| 2020    | \$ 37,593.09 |
| 2021    | \$ 34,827.73 |
| Average | \$ 36,210.41 |

|                |              |              |                |
|----------------|--------------|--------------|----------------|
|                | \$ 21,068    | \$ 30,765    | w/o LCFPD dues |
| Carryover      | \$ 5,781     | \$ 15,478    | w/o LCFPD dues |
| NSWRD Contract | \$ 15,287.40 | \$ 15,287.40 | w/o LCFPD dues |

August Treasury Req

NE Illinois IPS minimum baseline training cost proposal and scope for for watershed groups and stakeholders.

MBI Cost Estimate for 2021 NE Illinois IPS Orientation Training: Option 2

February 23, 2021

| Task                                     | Unit Cost | Project Units | Cost              | Subtotal           | Scope of Activity  |
|--|-----------|---------------|-------------------|--------------------|--|
| <b>Task 1 - Pre-training Preparation</b> |           |               |                   |                    |  |
| Project Manager                          | \$65.61   | 16            | \$1,049.76        |                    | Project management and pre-training preparation and coordination with watershed groups.  |
| Senior Research Associate                | \$58.62   | 60            | \$3,517.20        |                    | Pre-training preparations for 12-16 hours total of training; any pre-training case study exploration by groups is not supported.         |
| Direct Labor Costs                       |           | 76            | \$4,566.96        |                    |  |
| Task 1 Labor Fee (OM 1.55 applied)       |           |               | <b>\$7,078.79</b> |                    |  |
| <b>Task 1 Subtotal</b>                   |           |               |                   | <b>\$7,078.79</b>  |  |
| <b>Task 2 - Remote Training</b>          |           |               |                   |                    |  |
| Project Manager                          | \$65.61   | 16            | \$1,049.76        |                    | Coordinate logistics and management aspects of remote training sessions with DRSCW <sup>1</sup> , DRWW, NBWW, and LDPWW representatives. |
| Senior Research Associate                | \$58.62   | 40            | \$2,344.80        |                    | Conduct 12 hours of intergrated training <sup>2</sup> for all groups and stakeholders combined; 2-3 hour modules over 4-6 days.          |
| Direct Labor Costs                       |           | 56            | \$3,394.56        |                    |  |
| Task 2 Labor Fee (OM 1.55 applied)       |           |               | <b>\$5,261.57</b> |                    |  |
| <b>Other Direct Costs</b>                |           |               |                   |                    |  |
| Travel Lodging Per Diem                  | \$750.00  | 0             | \$0.00            |                    | No travel allotted - all training via remote platform (Zoom, Teams).   |
| Materials                                | \$250.00  | 0             | \$0.00            |                    | No material costs are anticipated - all resources will be electronically available.  |
| <b>ODC Subtotal</b>                      |           |               | <b>\$0.00</b>     |                    |  |
| <b>Task 2 Subtotal</b>                   |           |               |                   | <b>\$5,261.57</b>  |  |
| <b>Task 3 - Post Training</b>            |           |               |                   |                    |  |
| Project Manager                          | \$65.61   | 16            | \$1,049.76        |                    | Coordinate post-training follow-up compiling management, policy, technical development, and follow-up issues raised by the training.     |
| Senior Research Associate                | \$58.62   | 60            | \$3,517.20        |                    | Conduct limited post-training technical assistance to each group and limited post-training adjustments to IPS Dashboard .                |
| Direct Labor Costs                       |           | 76            | \$4,566.96        |                    |  |
| Task 3 Labor Fee (OM 1.55 applied)       |           |               | <b>\$7,078.79</b> |                    |  |
| <b>Task 3 Subtotal</b>                   |           |               |                   | <b>\$7,078.79</b>  |  |
| <b>IPS Training Total</b>                |           | <b>208</b>    |                   | <b>\$19,419.14</b> | Assumes costs will be shared across DRSCW <sup>1</sup> , DRWW, NBWW, and LDPWW.  |

Footnotes:

<sup>1</sup> - includes Lower DuPage Watershed Coalition

<sup>2</sup> - will consist of multiple 2-4 hour remote sessions.



# 2020 Des Plaines River Watershed Workgroup (DRWW) Annual Accomplishments

The DRWW continues to fulfill the monitoring requirements of its members. According to the Illinois EPA (IEPA), almost all the waterways within the Des Plaines River Watershed are impaired. To remove the watershed from the IL EPA's list of impaired waters, the Midwest Biodiversity Institute has developed a tool to identify water quality improvement. In anticipation of the permit renewal process in 2021 by the IEPA, the workgroup is addressing the regulatory requirements of its constituents. The DRWW also provided professional development opportunities to members, stakeholders and constituents.

## 2020 New Members

DRWW welcomed six new members for a total of 36 and collected \$243,793.00 in membership dues.

- City of Park City
- City of Zion
- GeoSyntec
- Vernon Hills Park District
- Village of Long Grove
- Wetlands Research, Inc.

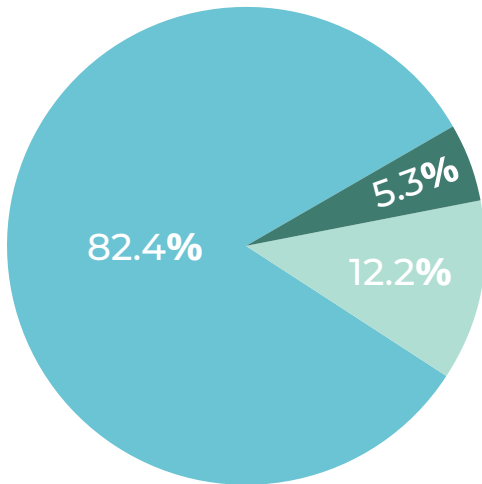
## 2020 New Board & Committee Members

- Dave Miller, Executive Board Vice President, NSWRD
- Steven Waters, Monitoring Committee Chair, NSWRD
- Nick Huber, Monitoring Committee, LCFPD
- Brian Kuebker, Monitoring Committee, Village of Libertyville

## 2020 Retirements

- Brian Dorn, DRWW President, NSWRD
- Joe Robinson, Monitoring Committee Chair, NSWRD
- Leslie Berns, Executive Board, LCFPD
- Michael Warner, Administrative Coordinator, Lake County SMC

## 2020 DRWW Expenses



- Biological & Water Quality Monitoring (82.4%)
- Nutrient Assessment Reduction Plan (NARP) (5.3%)
- Administration/Technical Services (12.2%)

## 2020 Continuous Monitoring

The DRWW, with the help of the North Shore Water Reclamation District (NSWRD), began a three year continuous water quality monitoring program in June 2020. Multiprobe sondes were installed in the Des Plaines River Mainstem at Russel Road, Highway 120 and Half Day Road. The sondes will record specific conductivity, pH, water temperature, dissolved oxygen, chlorophyll a, and turbidity every 30 minutes. This data will be used to support the development of a Nutrient Assessment and Reduction Plan (NARP) for the Des Plaines River Watershed, assess watershed impacts from winter road maintenance and determine sediment transport impacts.



## Major Accomplishments

**2015:** The DRWW was officially formed and gained 18 members in the first year!

**2015-2018:** Illinois EPA awarded a Section 319 grant to develop a watershed-based plan. DRWW monitoring costs of \$279,000 were utilized as grant matching funds. The watershed plan was developed and completed with DRWW's input in June 2018 and approved by the Illinois EPA.

**2019:** The DRWW contracted with Geosyntec to develop a Preliminary NARP Workplan with a multi-year plan to complete the NARP in 2023, satisfying the POTW NPDES Special Condition permit requirements.

**2020:** DRWW updated the bylaws and membership dues structure. The DRWW started a three-year continuous monitoring program through NSWRD based on the Preliminary NARP Workplan recommendations. DRWW started a Request for Proposal for completing the NARP by December 31, 2023.

## Committee Reports:



### Executive Board:

- The DRWW bylaws were updated to include a recapture ordinance. Participating agencies have contributed significant effort and resources to the DRWW. This update allows the Executive Board to recapture an equitable portion of these expenses from non-participating agencies who join the DRWW at a later date.
- The DRWW dues structure was updated to add a \$0.60 per capita cap and \$200 minimum for agency membership dues to address concerns about acreage calculations in dues structure disproportionately effecting municipalities with low population density.

### Lakes Committee

- Hydrilla was found in the Des Plaines River Watershed in a stormwater pond in Libertyville in 2019. The Hydrilla rapid response plan was implemented to treat this pond. This will be a long-term treatment and monitoring strategy that will likely occur for the next 5-7 years.

### Monitoring/Water Quality Improvement Committee

- The DRWW continues to conduct water quality and bioassessment monitoring. Data from this monitoring is used for the IPS model, NARP and MS4 compliance.
- Created a PAH press release to increase awareness of rising PAH concentrations observed in DRWW monitoring data and encourage community leaders to adopt coal-tar-sealant bans.

### Illinois EPA Section 319 Grants

In 2018, the DRWW began partnering on three 319 grant applications in the watershed. The Workgroup has provided letters of support and committed approximately \$2,800 of in-kind effort for education and public outreach. All three 319 grant applications received funding.

- **Lake County Health Department: Removal of Carp to Reduce Nutrient Enrichment in Impaired Lakes in Lake County**  
Carp removal began in October 2020 after initial delays due to COVID. Carp removal will occur at Crooked, Hastings, McDonald 2, Slough, Des Plaines Lake, St. Mary's Lake, Big Bear Lake and Little Bear Lake in 2021 and 2022. Removal of carp will help reduce internal nutrient cycling and increase likelihood of successful aquatic plant establishment in the project lakes.
- **Lake County Forest Preserve District: Van Patten Woods Hydrologic Restoration and Enhancement Project**  
Invasive species clearing and drain tile disablement begin in December 2019. Since then, the LCFPD has retired 94.5 acres of farm field, removed/disabled approximately 11,150 linear feet of drain tile, installed seven check dams, one trail berm, 716 trees and shrubs, and a diverse native seed and cover crop mix to the remaining areas. In spring 2021, the LCFPD will be installing native wetland plant plugs in the new wetland basins. The project is anticipated to be completed by June 2021.
- **Village of Libertyville: Charles Brown Park Wetland Detention Project**  
The Charles Brown project was completed in summer 2020. Two sediment forebays were installed at inlet points to capture sediments and particulate pollutants. A third sediment forebay was installed near the outlet of the basin to capture additional pollutants before discharge through a pump station. The project also included 7.45 acres of wetland enhancement. The wetland enhancement BMPs, in conjunction with the sediment forebay BMPs, provide significant water quality benefits to downstream waters.

For additional DRWW information, visit [www.drww.org](http://www.drww.org) or call us at 847-377-7717.

## DRWW Membership

### Agency Members

- City of Lake Forest
- City of Park City
- City of Zion
- Ela Township
- Fremont Township
- Lake County
- Lake County Division of Transportation
- Lake County Forest Preserve District
- Lake County Public Works
- Libertyville Township
- North Shore Water Reclamation District
- Vernon Township
- 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 Round Lake Park
- Village of Third Lake
- Village of Vernon Hills

### Associate Members

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

