

**AGREEMENT between the
LAKE COUNTY STORMWATER MANAGEMENT COMMISSION
and LAKE COUNTY FOREST PRESERVE DISTRICT for the
Des Plaines Watershed Workgroup Monitoring Program (DRWW-MP)**

This is an agreement by and between the LAKE COUNTY STORMWATER MANAGEMENT COMMISSION (hereinafter referred to as **SMC**), 500 West Winchester Road, Libertyville, Illinois 60048 and LAKE COUNTY FOREST PRESERVE DISTRICT, (hereinafter referred to as **LCFPD**), 1899 W Winchester Road, Libertyville, Illinois 60048.

PURPOSE AND SCOPE OF WORK

Through this Agreement, the LCFPD agrees to provide forty thousand (\$40,000) of funding to enhance (Increase) the number of sampling locations for the DRWW-MP as shown in the Budget Summary Option 3. The general Scope of Work for the DRWW-MP is described as follows. SMC, as the DRWW administrative agent, will contract to implement the bioassessment program consisting of the collection and assessment of field water column chemistry, fish, macroinvertebrates, and habitat, collection of sediment samples and flow monitoring data. Initial startup tasks include refining the monitoring plan, revising and obtaining Illinois EPA's approval of the Quality Assurance Project Plan (QAPP), and collecting and analyzing background data. The entire effort will be summarized and analyzed in a final report.

SCHEDULE

All sampling shall be completed by October 31, 2016. The project, including all reporting, shall be completed by December 31, 2017 and proceed according to the schedule detail summarized below.

Task 1: QAPP Revisions and Approval	January 1 – 31, 2016
Task 2: Refine Monitoring Plan	January 1 – June 30, 2016
Task 3: Background Data Compilation and Analysis	January 1, 2016 – December 15, 2017
Task 4: Bioassessment Sampling	July 1, 2016 – December 15, 2017
Task 5: Sediment Sampling	October 15, 2016 – December 15, 2017
Task 6: Flow Monitoring	January 1, 2016 – December 15, 2017
Task 7: Project Management and Data Analysis	January 1, 2016 – December 15, 2017
Task 8: Monitoring Draft and Final Report	October 31, 2017 and December 15, 2017

PROJECT DELIVERABLES

- DRWW and Illinois EPA approved monitoring plan.
- Illinois EPA approved QAPP. MBI will supply the technical information to others who will develop and coordinate the final QAPP for submittal to Illinois EPA.
- Monthly progress reports highlighting work accomplished, work planned for the upcoming month, and any issues and proposed resolution.
- Compiled data in approved IEPA format (excel).
- A comprehensive final report detailing the data and conclusions based on the analyses of the data including background and current watershed analysis and the analysis of the results of the water column and sediment chemistry as well as the fish, macroinvertebrate, habitat and field water chemistry data.

DRWW-MP Budget Summary

The cost estimates below are based upon 7 sampling episodes (May-16, June -16, July-16, Aug,16, Sept-16, Nov-16, & Mar-17) for water chemistry, sediment analyses at Tier 1 -3 sites, flow data collection, along with Fish & macroinvertebrate sampling & analyses.

- Option 1 is the original costs of the Monitoring Program
- Option 2 provides for adding 25 additional sites as proposed by MBI. Eighteen (18) of the added sites would become a new Tier 4 site and would include fish & field chemistry analyses along with habitat evaluation (macroinvertebrates would not be included). The other 7-sites would be added as Tier 3 sites.

- Option 3, as agreed to in this instrument, would be the same as Option 2 with the addition of macroinvertebrate sampling and analyses at each of the 25 sites. Option three is the most desirable option in that it would provide a comprehensive evaluation of the entire watershed. This would be very valuable in the future when assessing improvement measures taken in an effort to improve water quality.

Option	Water	Sediment	Fish/Macro	Flow	Total	Cost Add
Option 1	\$67,338	\$41,265	\$165,000	\$36,000	\$309,603	\$0
Option 2	\$75,525	\$50,435	\$165,000	\$36,000	\$326,960	\$17,357
Option 3	\$75,525	\$50,435	\$195,350	\$36,000	\$357,310	\$47,707
% Increase	12%	22%	18%	0%	15%	15%

COMPENSATION

The LCFPD shall provide forty thousand (\$40,000) to the DRWW through its Administrative Agent (SMC) for costs incurred during the completion of the tasks and within the time period as defined in the Schedule.

The SMC shall invoice the LCFPD for the \$40,000 and apply those funds as shown in Option 3 above; and as the DRWW-MP progresses, shall provide copies of approved contractor invoices for expenditures and documentation of services and deliverables performed.

TERMS AND CONDITIONS

- All preliminary or draft documentation, data and deliverables produced as referenced in this Agreement may be subject to the review by all parties to determine its acceptability in meeting the terms and intent of this Agreement.
- All final documentation, data and deliverables produced as referenced in this Agreement may be subject to the review by all parties to determine its acceptability prior to final delivery.
- All adjustments, additions and/or deletions to this Agreement are subject to the written approval of SMC and the LCFPD.
- This Agreement shall be governed by and construed according to the laws of the State of Illinois.
- This Agreement supersedes any and all other agreements, oral or written, between the parties hereto with respect to the subject matter hereof.

Correspondence related to the PROJECT covered by this Agreement should reference the DRWW-MP and be directed as follows:

LCFPD Contact:	SMC:
Jim Anderson/Leslie Berns	Mike Warner/Patty Werner
Lake County Forest Preserve District	Lake County Stormwater Management Commission
1899 W. Winchester Rd.	500 W. Winchester Road
Libertyville, IL 60048	Libertyville, IL 60048
Email: janderson@lcfpd.org - LBerns@lcfpd.org	Email: mwarner@lakecountyil.gov - pwarner@lakecountyil.gov
Phone: 847-367-6640	Phone: 847-377-7700

 Alex Ty Kovach, Executive Director
 Lake County Forest Preserve

 Date

 Michael Warner, Executive Director
 Lake County Stormwater Management Commission

 Date