



LAKE COUNTY FOREST PRESERVES
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Preservation, Restoration, Education and Recreation

DATE: June 6, 2016

MEMO TO: Bonnie Thomson Carter, Chair
Planning and Restoration Committee

S. Michael Rummel, Chair
Finance and Administrative Committee

Agenda Item# 9.5

FROM: James L. Anderson, Director
Natural Resources

RECOMMENDATION: Recommend approval of a Resolution approving an agreement with Lake County Stormwater Management Commission to partially fund the Des Plaines River Watershed Workgroup's (DRWW) biological sampling project.

STRATEGIC DIRECTIONS SUPPORTED: Leadership; Conservation

FINANCIAL DATA: Funding for this project is coming from the District's Development Levy (\$10,000.00) and from a \$30,000.00 grant from the Preservation Foundation of the Lake County Forest Preserves. The actual cost of \$40,000.00 will be charged to account 27644000-701500.

BACKGROUND: In June of 2014, the District Board of Commissioners approved the District's participation in the DRWW and authorized staff's participation in the workgroup. The DRWW is a voluntary, dues-paying informal intergovernmental organization with a mission to bring a diverse coalition of stakeholders together to work toward improving water quality in the Des Plaines River and its tributaries in a cost-effective manner to meet Illinois Environmental Protection Agency requirements. The DRWW has developed an assessment plan to monitor the river and its tributaries which it will use to prioritize and implement water quality improvement projects and secure funding.

During the development of a monitoring strategy, the DRWW asked its sampling consultant to complete a geomorphic analysis of essential sampling locations in the watershed. Available funding covered 44 sampling locations. The geomorphic analysis identified an additional 33 sites that would make the monitoring effort statistically robust. In addition, most of these added sampling sites are headwater streams on which there is no current information. Many of these additional and original sampling locations are on or near District lands (48 out of 77). The Green Infrastructure Model and Strategy identified a gap in information regarding stream quality within the District's aquatic systems.

This funding will allow for sampling efficiencies and provide a critical baseline data set that will be sampled on a reoccurring basis. The DRWW, through dues, is contributing \$242,520.00 to the sampling effort. The Stormwater Management Commission will serve as the administrator for the DRWW.

REASON FOR RECOMMENDATION: Committee recommendation and Board approval are required in accordance with District policy.

REVIEW BY OTHERS: Executive Director, Chief Operations Officer, Director of Finance, Corporate Counsel

PRESENTER: James L. Anderson

STATE OF ILLINOIS)
) SS
COUNTY OF LAKE)

**BOARD OF COMMISSIONERS
LAKE COUNTY FOREST PRESERVE DISTRICT
REGULAR JUNE MEETING
JUNE 6, 2016**

MADAM PRESIDENT AND MEMBERS OF THE BOARD OF COMMISSIONERS:

Your **PLANNING AND RESTORATION COMMITTEE** and **FINANCE AND ADMINISTRATIVE COMMITTEE** present herewith "A Resolution approving an agreement with Lake County Stormwater Management Commission to partially fund the Des Plaines River Watershed Workgroup's biological sampling project" and request its adoption.

PLANNING AND RESTORATION COMMITTEE:

Date: June 6, 2016 Roll Call Vote: Ayes: _____ Nays: _____
 Voice Vote Majority Ayes; Nays: 0

FINANCE AND ADMINISTRATIVE COMMITTEE

Date: 6-9-2016 Roll Call Vote: Ayes: _____ Nays: _____
 Voice Vote Majority Ayes; Nays: 0

**LAKE COUNTY FOREST PRESERVE DISTRICT
LAKE COUNTY, ILLINOIS**

**A RESOLUTION APPROVING AN AGREEMENT WITH LAKE COUNTY STORMWATER
MANAGEMENT COMMISSION TO PARTIALLY FUND THE DES PLAINES RIVER WATERSHED
WORKGROUP'S DES PLAINES RIVER BIOLOGICAL SAMPLING PROJECT**

WHEREAS, the Lake County Forest Preserve District (the "District") owns properties that are located within the Des Plaines River and its tributaries (the "DPR Watershed"); and

WHEREAS, the District has issues of common interest with certain units of local government that hold permits (the "Local Governments") to discharge into the DPR Watershed; and

WHEREAS, the Local Governments have formed (and the District has joined) the Des Plaines River Watershed Workgroup (the "DRWW"), a voluntary, dues-paying informal intergovernmental association with the mission to bring a diverse coalition of stakeholders together to work toward improving water quality in the DPR Watershed in a cost-effective manner to meet Illinois Environmental Protection Agency requirements; and

WHEREAS, under the agreement and bylaws governing the DRWW, the DRWW (i) is authorized to accept and receive contributions to carry out its purposes, (ii) utilizes the Lake County Stormwater Management Commission ("SMC") as its entity for entering into contracts, making payments, and receiving grants or other revenue, and (iii) adheres to the procurement requirements of the County of Lake in purchasing professional services; and

WHEREAS, the DRWW is monitoring the DPR Watershed, and is using the data from such monitoring to prioritize and implement water quality improvement projects and secure grant funding to offset costs; and

WHEREAS, the Monitoring Committee of the DRWW has determined that monitoring an additional 33 sites (the "Project") will provide a more robust baseline of information and data to inform future watershed actions; and

WHEREAS, the DRWW is contributing \$242,520.00 toward the Project and has requested that the District contribute \$40,000 toward the Project; and

WHEREAS, at the District's request, the Preservation Foundation of the Lake County Forest Preserves has committed to contribute \$30,000 toward the Project; and

WHEREAS, it is in the best interests of the District to enter into an agreement with SMC, in substantially the form hereto attached (the "Agreement") to contribute \$40,000 toward the Project (\$10,000 from the District's Development Levy fund and \$30,000 from the Foundation);

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Lake County Forest Preserve District, Lake County, Illinois THAT:

Section 1. Recitals. The recitals set forth above are incorporated as a part of this Resolution by this reference.

Section 2. Approval of the Agreement. The Agreement is hereby approved in substantially the form attached hereto. The District President and District Secretary are hereby authorized and directed to execute and attest to the Agreement in substantially the form attached hereto.

Section 3. Effective Date. This Resolution shall be in full force and effect from and after its passage and approval in the manner provided by law.

PASSED this _____ day of _____, 2016

AYES:

NAYS:

APPROVED this _____ day of _____, 2016

ATTEST:

Ann B. Maine, President
Lake County Forest Preserve District

Julie Gragnani, Secretary
Lake County Forest Preserve District

Exhibit _____

**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.

Des Plaines Watershed Workgroup – LCFPD Monitoring Program Enhancement

- 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 - pwerner@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