



MEMORANDUM

TO: Lake County Stormwater Management Commission

FROM: Sharon Østerby, Water Resource Professional
Kurt Woolford, Chief Engineer

DATE: January 11, 2019

Re: FY 2019 WMB Application Summary

ACTION REQUESTED: APPROVAL OF WMB FUNDING RECOMMENDATION

At the annual Watershed Management Board (WMB) meeting on December 5, 2018, the Board recommends the noted projects on the attached list for WMB funding. A description for recommended projects follows the summary information and project location maps can be found here: <https://arcgis/11mPWT>. There were (15) fifteen project proposals totaling \$5,048,095 and requesting \$397,376 of WMB funds. A total of \$183,000 is available for WMB funding. SMC staff requests the approval of the following WMB funding recommendations:

- (6) six WMB projects, with a total project cost of \$4,561,005 and total WMB funding of \$170,760
- (1) one Watershed Management Assistance Grant (WMAG), with a total project cost of \$12,000 and a total WMAG funding of \$12,000.

The WMB recommendations to the Commission include transfer of funding between watersheds due to unallocated funds in both the Lake Michigan and the Des Plaines River Watersheds.

All WMB project agreements that exceed the Executive Director's spending authority of \$20,000 will be presented to the Commission for approval at a future meeting.

FISCAL YEAR 2019

WMAG/WMB APPLICATION SUMMARY & RECOMMENDATIONS

WATERSHED MANAGEMENT ASSISTANCE (\$12,000 available)

Project	Applicant	Score	Total Cost	Requested Amount	Funds Available	SMC Staff Recommended Funding	WMB Recommended Funding
Squaw Creek Watershed Plan	Long Lake Improvement & Sanitation Association	400	\$12,000	\$12,000		\$12,000	\$12,000
WMAG TOTAL			\$12,000	\$12,000	\$12,000	\$12,000	\$12,000

DES PLAINES RIVER (\$70,140 available)

Conservation@Home	Openlands	400	\$109,784	\$27,446		\$27,446	\$27,446
Chickamauga Drainage Improvements	Village of Long Grove	280	\$61,828	\$30,914		Recommended to SIRF	Recommended to SIRF
VOLZ Kildeer Creek	Village of Lake Zurich	275	\$337,500	\$30,000		\$30,000	\$30,000
DES PLAINES RIVER WATERSHED WMB TOTAL			\$509,112	\$88,360	\$70,140	\$57,446	\$57,446
UNALLOCATED FUNDS TO FOX RIVER WATERSHED					-\$12,694		
TOTAL DES PLAINES WATERSHED FUNDING					\$57,446	\$57,446	\$57,446

NORTH BRANCH CHICAGO RIVER (\$35,070 available)

Dady Slough Flood Control	Lake County SMC	445	\$3,523,084	\$35,070		\$35,070	\$35,070
NORTH BRANCH CHICAGO RIVER WMB TOTAL			\$3,523,084	\$35,070	\$35,070	\$35,070	\$35,070
TOTAL NORTH BRANCH WATERSHED FUNDING					\$35,070	\$35,070	\$35,070

FOX RIVER (\$35,070 available)

Larkdale Storm Sewer Rehabilitation	Village of Wauconda	365	\$122,690	\$60,000		Recommended to SIRF	Recommended to SIRF
Farm Trails Drainage Project	Farm Trails HOA-Lake Barrington	325	\$18,000	\$9,000		Recommended to SIRF	Recommended to SIRF
Millennium Park Water Quality Improvements	Village of Fox Lake	310	\$42,950	\$21,400		\$21,400	\$21,400
Duck Lake Channel & Shoreline Improvements	Duck Lake Woods HOA-Grant TWP	300	\$63,688	\$31,844		\$31,844	\$31,844
Tower Lake Drainage Study	Village of Tower Lakes & TLIA	265	\$32,000	\$16,000		\$0	\$0
Riverwalk Rill System Maintenance	Riverwalk HOA-Port Barrington	220	\$42,500	\$21,250		\$0	\$0
Grass Lake Wetland Restoration	Fox Waterway Agency	185	\$60,472	\$17,872		\$0	\$0
Lake Marie Shoreline Erosion Project	CA Improvement Association	155	\$67,600	\$33,800		\$0	\$0
FOX RIVER WATERSHED WMB TOTAL			\$449,900	\$211,166	\$35,070	\$53,244	\$53,244
UNALLOCATED FUNDS TRANSFERRED FROM DES PLAINES RIVER WATERSHED					\$12,694		
UNALLOCATED FUNDS TRANSFERRED FROM LAKE MICHIGAN WATERSHED					\$1,720		
CONTINGENCY FUNDS					\$3,760		
TOTAL FOX RIVER WATERSHED FUNDING					\$53,244	\$53,244	\$53,244

LAKE MICHIGAN (\$26,720 available)

Shiloh Park Senior Center Site Improvements	Zion Park District	480	\$484,000	\$25,000		\$25,000	\$25,000
Bull Creek North Branch Cleanup	Village of Beach Park	380	\$70,000	\$25,780		\$0	\$0
LAKE MICHIGAN WATERSHED WMB TOTAL			\$554,000	\$50,780	\$26,720	\$25,000	\$25,000
UNALLOCATED FUNDS TRANSFERRED TO FOX RIVER WATERSHED					-\$1,720		
TOTAL LAKE MICHIGAN WATERSHED FUNDING					\$25,000	\$25,000	\$25,000

FY19 TOTAL WMB (\$183,000 AVAILABLE)

*\$4,000 Contingency Included	WMB GRAND TOTAL	\$5,048,095	\$397,376	\$183,000	\$182,760	\$182,760
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STORMWATER MANAGEMENT COMMISSION

2019 RECOMMENDED PROJECTS

Watershed Management Board (WMB) Cost-share Program Stormwater Infrastructure Repair Fund (SIRF) Cost-share Program

- WMB/WMAG: \$183,000 available; 7 projects recommended, with a total grant value of \$182,760.
- SIRF: \$100,000 available; 3 projects recommended, with a total grant value of \$99,914.
- See project location map below.

WATERSHED MANAGEMENT ASSISTANCE GRANT (WMAG)

The WMAG supports the growth and sustainability (i.e., organizational capacity) of local watershed partnerships in Lake County. For the purpose of this program, the definition of a "watershed partnership" is an inclusive, enduring, diverse, community-based group organized to identify and resolve watershed problems and issues. The work carried out by each grant recipient will target and fulfill the above purpose. There is no local match requirement for WMAG.

Squaw Creek Watershed Plan (Long Lake Improvement & Sanitation Assoc.)

\$12,000 SMC WMAG Grant
\$12,000 Estimated Project Cost

The Squaw Creek Water Alliance will use the WMAG to support the development and implementation of the Squaw Creek Watershed Plan update.

The WMB and SMC staff **RECOMMEND** this project for WMAG funding.

WATERSHED MANAGEMENT BOARD (WMB) GRANT

DES PLAINES RIVER WATERSHED

Conservation @ Home (Openlands - Multi-Community)

\$27,446 SMC WMB Grant
\$109,784 Estimated Project Cost

The proposed project scope involves mailings to 500 properties, two rounds of meetings with municipal and community leaders, and two plant sale community events with the goal of reaching 500 individuals/corporations/agencies and ultimately achieving at least 100 new on-the-ground actions within the four high-priority municipalities of Libertyville, Lincolnshire, Mettawa, and Riverwoods.

The WMB and SMC staff **RECOMMEND** this project for WMB funding.

Chickamauga Drive Drainage Improvements (Long Grove)

\$30,914 SMC SIRF Grant
\$61,828 Estimated Project Cost

The proposed project scope involves installation of an inlet, flared end sections, a catch basin, and a section of 24-inch storm sewer pipe to collect and convey water from Chickamauga Lane to Buffalo Creek via an existing easement.

Due to the scope and character of this project, SMC staff **RECOMMEND** this project for **SIRF** funding.

DES PLAINES RIVER WATERSHED – continued**Kildeer Creek Restoration
(Lake Zurich)**

\$30,000 SMC WMB Grant

\$337,500 Estimated Project Cost

The proposed project scope includes stabilizing the creek, restoring approximately 1,500 LF of streambank, and enhancing the adjacent buffer zones with native plants in the section of Kildeer Creek between IL Rt 22 and Quentin Road.

The WMB and SMC staff **RECOMMEND** this project for WMB funding.

NORTH BRANCH CHICAGO RIVER WATERSHED**Dady Slough Flood Control Project
(Park City/Waukegan)**

\$35,060 SMC WMB Grant

\$3,523,084 Estimated Project Cost

The proposed project scope includes acquiring 25 acres of land and excavating soil to increase flood storage capacity as well as enhancing existing wetlands and providing a path to create public access.

The WMB and SMC staff **RECOMMEND** this project for WMB funding.

FOX RIVER WATERSHED**Larkdale Storm Sewer Rehabilitation Project
(Wauconda)**

\$60,000 SMC SIRF Grant

\$122,690 Estimated Project Cost

The proposed project scope includes spot repairs and lining of variously sized storm sewers to address separation issues and prevent sinkholes.

Due to the scope and character of this project, SMC staff **RECOMMEND** this project for **SIRF** funding.

**Farm Trails Drainage Project
(Farm Trails HOA-Lake Barrington)**

\$9,000 SMC SIRF Grant

\$18,000 Estimated Project Cost

The proposed project scope of work includes replacing a pipe and facilitating conveyance of stormwater to improve drainage within the Farm Trails neighborhood and Tower Lakes subdivision.

Due to the scope and character of this project, SMC staff **RECOMMEND** this project for **SIRF** funding.

**Millennium Park Water Quality Improvement
Project (Fox Lake)**

\$21,400 SMC WMB Grant

\$42,950 Estimated Project Cost

The proposed project scope of work consists of removing invasive species, stabilizing the eroding shoreline by removing a portion of parking lot to create a native plant buffer, enhancing existing wetlands, and installing a permeable trail connection.

The WMB and SMC staff **RECOMMEND** this project for WMB funding.

**Duck Lake Channel & Shoreline Improvement
(Duck Lake Woods HOA & Grant Twp.)**

\$31,844 SMC WMB Grant

\$63,688 Estimated Project Cost

The proposed project scope includes stabilize 600 LF. of channel shoreline at Duck Lake Drain tributary with riprap toe and native plants and restoring a section of beach shoreline with riprap barriers and installation of beach grasses to hold sand and soil by Elmwood Ave and Shoreline Drive.

The WMB and SMC staff **RECOMMEND** this project for WMB funding.

FOX RIVER WATERSHED – continued**Tower Lake Drainage Study and Planning Project (Tower Lakes and TLIA)**

\$16,000 SMC WMB Grant

\$32,000 Estimated Project Cost

The proposed project scope of work involves hydrologic and hydraulic modeling for the Tower Lakes watershed, to assist with prioritizing remaining projects, identifying additional projects, and supporting assessment and engineering design of future projects.

The WMB and SMC staff **DO NOT RECOMMEND** this project for WMB funding.

Riverwalk Rill System Maintenance (Riverwalk HOA-Port Barrington)

\$21,250 SMC WMB Grant

\$42,500 Estimated Project Cost

The proposed project scope of work includes removing accumulated debris and sediment from the stormwater system within the subdivision to provide drainage relief and restore functionality to the constructed rill system.

The WMB and SMC staff **DO NOT RECOMMEND** this project for WMB funding.

Grass Lake Wetland Restoration Project (Fox Waterway Agency)

\$17,872 SMC WMB Grant

\$60,472 Estimated Project Cost

The proposed scope of work includes 400 LF. of perimeter repair at Grass Island using approximately 1 ton of riprap per linear foot to protect the constructed wetland habitat in the interior of the island.

The WMB and SMC staff **DO NOT RECOMMEND** this project for WMB funding.

Lake Marie Shoreline Erosion Project (CA Improvement Association-Antioch)

\$33,800 SMC WMB Grant

\$67,600 Estimated Project Cost

The proposed scope of work includes ultimately installing 2,250 LF. of 6-24" boulders starting at the worst area of Lake Marie shoreline, with additional work performed each year as supported by budget.

The WMB and SMC staff **DO NOT RECOMMEND** this project for WMB funding.

LAKE MICHIGAN WATERSHED**Shiloh Park Senior Center Site Improvements (Zion Park District)**

\$25,000 SMC WMB Grant

\$484,000 estimated project cost

The proposed project scope includes constructing a berm and retaining wall to prevent flooding of the facility, installing new storm sewer to drain water back to the lake via a pump system, and establish a native plant raingarden that includes "sensory garden" species for people with limited mobility.

The WMB and SMC staff **RECOMMEND** this project for WMB funding.

Bull Creek North Branch Cleanup (Beach Park)

\$25,780 SMC WMB Grant

\$70,000 estimated project cost

The proposed project scope includes the clean-up of approximately 200 ft. of creek, drainage ditch enhancements, storm sewer inlet and pipe installation, as well as installation of rock riffle and rock toe treatments.

The WMB and SMC staff **DO NOT RECOMMEND** this project for WMB funding.