

# Lake George Watershed Coalition Project Proposal Submission (Completion) Instructions

Applications for review by the committee should contain the following information:

## Project / Initiative Title

Lake George Erosion and Sediment Control Program

### • Submitting Organization and Contact(s)

Warren County SWCD	Ph 518-623-3119
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394 Schroon River Rd	
Warrensburg NY 12885	

### • Lake George Watershed Conference priority

Clarify the project's alignment with the *LGWC – Future Priorities* document; reference the priority advanced by the project.

Erosion and Sediment control is targeted in *LGWC – Future Priorities #7 Plan Implementation, Pollution Prevention*, “Reduce and prevent the introduction of solids loading in the Lake.” This project also addresses both *#1 Stormwater* and *#2 Stream Corridor* priorities of erosion and sediment control.

### • Project Summary (Benefits) Statement

Include project concept, goals, objectives, deliverables, as well as expected outcomes; identify any critical environmental issues addressed.

Identify the project's environmental benefits as well as its educational and research benefits; include its impact to the watershed. Denote whether the project uses innovative technologies, if it can serve as a model for other projects and/or whether the project uses proven technologies and resources with previously demonstrated success in past practices.

The objective of this project is to control erosion and sedimentation processes within the Lake George Basin, thereby greatly reducing excess sediment that impacts Lake George water quality and causes declines in the aquatic environment in both the lake and its many tributary streams.

The deliverables of this project include the continuation and enhancement of the very successful basin-wide roadside erosion control (hydroseeding) program, and the reduction of thousands of yards of sediment and debris through the extremely cost-effective reservoir and sediment pond cleanout program.

The environmental benefit can be measured in the thousands of cubic yards of sediment and debris that are removed from sediment basins and reservoirs each year. It can also be seen in sediment that doesn't reach these basins from the hundreds of lane miles that are hydroseeded after roadside ditching.

Stabilizing bare soil following municipal, DPW, and DOT road ditching activities has been proven to significantly reduce erosion and minimize water quality impacts throughout the watershed. Research shown by Cornell University and others indicates that road ditching activities are one of the largest pollution and sediment sources to lakes and streams in New York.

Warren County has been a leader with its roadside erosion control program, inspiring partnering and mentoring other neighboring counties to get their hydroseeding programs up and running. Participating in this program also acts to educate and promote a better understanding of watershed protection to the many local highway departments throughout the basin. This project will include on-site training to highway departments on topics such as proper ditch and channel lining techniques, invasive species management, and improved de-icing practices.

- **Project Description**

Describe the project, including deliverables, key resources (labor and non-labor), time line and evaluation measures (success criteria); demonstrate project readiness in terms of staff, resources, project schedule, permits and other funding.

The District works with the NYS DOT as well as Town and County DPW to hydroseed road side ditches and stabilize municipal land throughout the County. In addition to hydroseeding, this may take the form of stone lining ditches, hydromulching, or vegetative buffers. The District also works with the Towns of Bolton, Hague and the Village and Town of Lake George through the LGWC funding to maintain the existing reservoirs and sediment basins so that these structures continue to maintain the capacity to capture suspended sediments effectively. Built up sediment from six reservoirs throughout the Lake George Basin will be removed through this project.

The deliverables and expected outcomes are the stabilization of dozens of lane-miles of bare roadside ditches as well as the capture of suspended sediments and debris that has eroded. This program is a tremendously cost-effective means to control delta growth on the lake's large tributaries, and is supported by the NYS DEC and all local municipalities. This program effectively meets the priorities laid out by the Lake George Watershed Coalition for watershed-wide pollution reduction.

The District's roadside erosion control and reservoir & sediment basin program has been tremendously successful at developing partnerships with Town, County and State highway departments, which is very beneficial when asking their assistance with other water quality initiatives (i.e. stormwater retrofits). It is also highly visible, demonstrating the conservation message to the public throughout the watershed.

Each year the highways departments dedicate staff time to maintenance of sediment basins and reservoirs through the assistance of the LGWC, the LGA and WCSWCD. The SWCD staff undertakes all planning and execution of this program, working with highway departments at all levels of government.

The timeframe for this project is April 15 - October 15, 2010 & 2011.

- **Project Budget**

Provide the project budget information, including major costs (labor and non-labor); identify multi-year funding requirements (e.g. long term O & M) and the potential for phased implementation. Include the % of total budget requested from LGWC and how the local match will be provided.

<u>Item</u>	<u>LG Watershed Coalition</u>	<u>Local Match</u>	<u>Total</u>
Materials (seed, hydromulch, polyacrylamide, straw, erosion control blankets, etc)	\$15,000	\$0	\$15,000
Project Execution (hydroseeding, reservoir cleanouts, power mulching, channel lining, etc)	\$10,000	\$30,000	\$40,000
Planning, Permitting, and Project Coordination	\$3,000	\$4,000	\$7,000
Equipment (long reach excavator, loader, tandem trucks)	\$12,000	\$10,000	\$22,000
Contractual (additional trucking, equipment operator)	\$4,000	\$0	\$4,000
<b>Total Cost</b>	<b>\$44,000</b>	<b>\$44,000</b>	<b>\$88,000</b>

LGWC Grant represents 50% of the total proposed project cost.

These important projects represent only 4.9% of the total DOS grant amount