

RECEIVED

By Lake and River Enhancement Section at 2:24 pm, Jan 14, 2010

INDIANA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND WILDLIFE

LAKE AND RIVER ENHANCEMENT PROGRAM

Application for Grant Funds

(Please complete and submit electronically
to lare@dnr.IN.gov by January 15)

**Activities Related to
BIOLOGICAL AND ENGINEERING PROJECTS**

I. Applicant Information

A. Project sponsor (applicant):

Name Tippecanoe Watershed Foundation

Address PO Box 55

City, State, Zip Code North Webster, IN 46555

Name: Lake Tippecanoe Property Owners Assn

Address: c/o Holly LaSalle
67 EMS T49 A Lane
Syracuse, IN 46567

B. Contact person for the sponsor organization:

Name Lyn Crighton

Title Executive Director

Address PO Box 55

City, State, Zip Code North Webster, IN 46555

Telephone (Day) 574/834-3242 (Evening) 574/265-8323

FAX E-Mail telwf@kconline.com

C. Briefly describe the past and present activities of the sponsor organization. The Tippecanoe Watershed Foundation (TWF) focuses on solutions to water quality issues in the 11-digit Upper Tippecanoe River Watershed. TWF works to implement projects identified in the 2008 Watershed Management Plan. Over 50 projects have been completed by TWF and partner organizations over the past 12 years. TWF also holds numerous fund raising, education, and outreach activities. The Lake Tippecanoe Property Owners (LTPO) was formed in 1944

as the Lake Tippecanoe Protective Association. It was founded largely for the purpose of preserving the beauty and health of the lake. The LTPO have continued to update and expand the original goals and develop a strategic plan to reach those goals. The TWF and LTPO have been active in LARE programs since 1998.

D. Describe the legal status of the sponsor organization, i.e., indicate what the sponsor has done to acquire official standing. State when the organization was established. List current officers'/officials' names. TWF was established and gained legal status as a 501 (c)(3) in 1996.

TWF Board of Directors:

Jane Loomis, President	Robert Schwartz	Chuck Brinkman
Dave Swart, VP	Mike Lattimer	Richard Armstrong
Joe Tynan, Secretary	Dave Swart	Jennifer Cox
Steve Matthias, Treasurer	Mike Martin	Natalie Fierek
Gary Calhoun	Mark Ennes	Dick LeGrand

E. If the sponsor organization is a "property owners" or "lake" association, what percentage of the affected lake's residents are members of the group? TWF is not a membership organization. TWF collaborates regularly with the Lake Tippecanoe Property Owners Association (LTPO) on water quality protection and improvement projects.

F. Are there other organizations also representing residents of the affected lake? What relationship do those organizations have with the sponsor/applicant on matters related to this application? LTPO and TWF are collaborating on two complementary LARE applications necessary to successfully restore this site with native vegetation. LTPO is sponsoring the dredging grant and TWF is sponsoring the revegetation grant.

G. Briefly describe the financial resources available to the sponsor organization (e.g., dues, contributions, fund drives, taxes, etc.). LTPO and TWF worked together to raise funds from residents to be used for nuisance weed reduction and prevention. This joint fund held at TWF will be the primary source of cash match required on this project.

II. Lake/Watershed Information

A. Lake(s) name(s) Lake Tippecanoe

B. County (ies) Kosciusko

C. Lake size (acres) 880 acres, (1,133 including Lake James and Oswego Lake)

D. Watershed (drainage basin) size (acres), if known 71,660 acres

E. Describe how the general public can gain access to the lake(s) (i.e., the number and types of access sites, their location, ownership, and any fees charged). Tippecanoe Boat Company (fee), Pie-Eyed Petey's Marina and Restaurant (fee), Patona Bay Resort (fee), Tippy Dance Hall (fee), Grassy Creek (IDNR)

III. Project Information

A. For what specific purpose is funding being sought? Funds are being sought for revegetation of an approximately 1.2 acre area within the Lake Tippecanoe Ecozone.

- Preliminary investigation?
- Lake diagnostic study?
- Watershed diagnostic study?
- Watershed management plan?
- Engineering feasibility study?
- Design study?
- Construction project?
- Design/build project? Yes
- Other? (Explain)

B. Describe the need for the project. Several projects have been completed within and along the inlet - Hanna B Walker Drain - including floodplain restoration and drain relocation project, sediment trap establishment and maintenance, sediment removal of inlet and boat traffic area, aquatic weed management, and the creation of an Ecozone. However, while all these projects have lessend the inflow of sediment from the upstream watershed, other factors have continued to cause this area to require additional dredging for long term water quality, fishery habitat and passive recreational value.

Therefore, TWF is proposing this revegetation project concurrently with an LTPO-sponsored sediment removal project within the area. The pupose of the sediment removal project is to dredge the accumulated filamentous blue-green algae from the area in order to establish a dominance of native hydrophytic vegetation. The area has been examined by several consulting professionals and LARE staff, and it is a common understanding that the thick mats of blue-green algae must be removed prior to re-establishment of native vegetation. This conclusion was also reached in the JFNew Littoral Zone Restoration Research Project 2007- 2009 Final Report.

Once native vegetation is established it will provide a buffer from the westerly winds, water quality improvement through nutrient uptake, fishery habitat for spawning, sediment trapping of any upstream flow continuing to contribute to the problem area, and a visual no entry barrier to boating traffic for the Ecozone. This will also be the first step towards truly restoring a section of Lake Tippecanoe's Ecozone. It will be a test site for restoring native vegetation throughout the Ecozone in accordance with the 2007 Ecozone Plan.

C. Describe any studies or restoration measures that have been completed for the

lake/watershed. Lake Tippecanoe Diagnostic Study, June 1997; Lake Tippecanoe Feasibility Study, Oct. 1998; Design Summary-Hanna B. Walker Drain Sediment Trap, Feb. 2000; Lake Tippecanoe Henwood Creek Restoration Project, Oct. 2000; Indian Creek Detention Basins, Oct. 2000; Design Summary-Kuhn Ditch Tributary: Lake Tippecanoe Watershed Warner Historical Farms Restoration, Feb. 2002; Lake Tippecanoe Palmer Design Build Report, May 2003; Langohr Sediment Trap Design Build Report-Lake Tippecanoe Watershed, April 2004; Lake Tippecanoe Aquatic Vegetation Management Plan, Feb. 2005; Lake Tippecanoe Aquatic Vegetation Management Plan-2006 Update, Feb. 2006; Lake Tippecanoe Storm Drain Project, March 2006; Ecozone Feasibility-Lake Tippecanoe, Jan. 2007; Lake Tippecanoe Aquatic Vegetation Management Plan Update 2006, Feb. 2007; Lake Tippecanoe Aquatic Vegetation Management Plan Update 2007, Feb. 2008; Lake Tippecanoe Aquatic Vegetation Management Plan, Feb. 2008; Littoral Zone Restoration Research Project 2007-2009 Final Report Dec 2009; Lake Tippecanoe Aquatic Vegetation Management Plan, Feb. 2009

- D. Describe here or on an attached sheet the activities for which funding is requested. (Include drawings or other support materials, as applicable.) *see attached sheet for mapping information and total anticipated cost break down.
- E. What is the total estimated cost of the project? \$62,810
Anticipated cost-share to be contributed by sponsor (\$ or %). 25%
What was the basis for the estimate (e.g., diagnostic or feasibility study, preliminary estimate by consultant, formal bidding, etc.)? Preliminary Estimate by Consultant
- F. If a LARE grant were awarded for the activity, when would the effort realistically be expected to begin? Spring 2011 - assuming dredging is completed in Fall 2010
- G. If the funded activity would involve the use, lease, or purchase of land, indicate what the sponsor has done to secure permission to use the land. N/A
- H. If LARE funds are being sought for a construction project, indicate how the sponsor will administer the contract, supervise and inspect construction, and monitor the effectiveness of the constructed measure after it is completed. (Initial post-construction monitoring and construction inspection can be cost-shared as part of a construction grant). Although not a construction project, the staff and Board of Directors of TWF with help from LTPO will provide supervision and in-kind efforts to assist in this project.
- I. If a construction project is being considered, describe how the sponsor will pay for and carry out the activities necessary to operate and maintain the constructed measure.

This application for Lake and River Enhancement program assistance is hereby submitted as authorized by the sponsoring organization.

Sponsor organization Tippecanoe Watershed Foundation

Printed name of representative Lynette R Crighton

Confirm-Signature of representative Lynette R Crighton "signature"

(Note: The name in this box constitutes the signature on your organization's application)



Date January 10, 2010

Please e-mail a copy of this completed application to lare@dnr.IN.gov

Lake and River Enhancement Section
Division of Fish and Wildlife
Indiana Department of Natural Resources
402 W. Washington Street, Room W273
Indianapolis, IN 46204
Telephone 317/233-1484

APPLICATION DEADLINE IS JANUARY 15th

EXHIBIT A



Exhibit A—Location Map
Lake Tippecanoe Proposed Revegetation Area
2005 AERIAL PHOTOGRAPH
(Kosciusko County GIS)

Kosciusko County, Indiana

Tippecanoe Watershed Foundation
301 North Main St. , PO Box 55
North Manchester, IN 46555

Date:
January 2010

Exhibit B

Lake Tippecanoe Spring 2011 EcoZone Vegetation Establishment

Native Plant Species for Installation

<u>Common Name</u>	<u>Scientific Name</u>
spatterdock	<i>Nuphar polysepala</i>
water lily	<i>Nymphaea</i>
bulrush	<i>Scirpus</i>

Description	Quantity	Itemized Estimate
Native First Year Juvenile Plants (3' O.C)	5808	\$23,850.00
Labor and Materials	LS	<u>\$33,250.00</u>
Sub-total		\$57,100.00
10% Contingency		<u>\$5,710.00</u>
TOTAL ESTIMATE		<u>\$62,810.00</u>
Grant Match (25%)		<u>\$15,702.50</u>
Total Grant Funds Requested		<u>\$47,107.50</u>