

**Shoreland Habitat (SH) Program Grant Application  
FY2008 Proposal (July 2008-June 2010)**

**Project Title** “**Mitchell Lake Shoreline Restoration**”

**Lead Organization** **Mitchell Lake Association**

**Project Lead – Name/Title** **Jim Nehl, President, Mitchell Lake Association**

**Address** **8011 Island Road**                      **City** **Eden Prairie**

**State** **MN**                      **ZIP** **55347**                      **County** **Hennepin**

**Phone** **952-934-8540**                      **Fax** **952-934-8540**

**E-mail** **jnehl@comcast.net**

**Proposed Project Location(s) if known. Please provide the following information for all of the known sites to be considered for the application.**

**Name of Lake or River** **Mitchell Lake Property ID #17-116-22-21-0049**

**Division of Waters Lake Inventory number:** This number can be found using the lake finder on the Minnesota DNR website <http://www.dnr.state.mn.us/lakefind/index.html>. After choosing the appropriate lake survey, you can find this number listed in the upper right corner of the report (example 86-0183-00) **27-0070-00**

**Township Name** NA                      **Township Number (example 121N)** 116N

**Range (example 26W)** 22W                      **Section(s)** 17

**County** **Hennepin**                      **Nearest City (if needed to identify site location)** **Eden Prairie**  
**Project Size:**

**Aquatic Zone:**                      **linear feet** 96    **X**    **width** 4    **=square feet** 384

**Transition Zone:**                      **linear feet** 200    **X**    **width** 5    **=square feet** 1000

**Upland Zone:**                      **linear feet** 405    **X**    **width** 25    **=square feet** 10,125

**Total Project:**                      **linear feet** 405                      **square feet** 11,509

**Project Partners:** Please list any project partners that will help complete this project

<b>Name</b> Jim Nehl	<b>Organization</b> Mitchell Lake Association	<b>Title</b> President, Mitchell Lake Association
<b>Address</b> 8011 Island Road, Eden Prairie, MN 55347		
<b>Telephone</b> 952-934-8540	<b>Fax</b> 952-934-8540	<b>Email</b> jnehl@comcast.net

<b>1. Name</b> Rick Schoeneck	<b>Organization</b> Timberlake Homeowners Association	<b>Title</b> President, Timberlake Assoc
<b>Address</b> 7938 South Bay Curve, Eden Prairie, MN 55347		
<b>Telephone</b> 952-934-6480	<b>Fax</b>	<b>Email</b> rick@glencoecastle.com

<b>2. Name</b> Leslie Stovring	<b>Organization</b> City of Eden Prairie	<b>Title</b> Environmental Coordinator
<b>Address</b> 8080 Mitchell Road, Eden Prairie, MN 55344		
<b>Telephone</b> 952-949-8300	<b>Fax</b> 952-949-8326	<b>Email</b> lstovring@edenprairie.org

<b>3. Name</b>	<b>Organization</b>	<b>Title</b>
<b>Address</b>		
<b>Telephone</b>	<b>Fax</b>	<b>Email</b>

<b>4. Name</b>	<b>Organization</b>	<b>Title</b>
<b>Address</b>		
<b>Telephone</b>	<b>Fax</b>	<b>Email</b>

**Type of Project Being Applied For**

- Shoreland Restoration
- Workshops
- other (please explain below)
- Research

**Amount of Requested Funds**

How much grant money are you requesting? The grant program primarily covers project costs for materials, supplies and labor to install the vegetation and any approved construction costs to prepare the site \$: **\$27,521**

Every three dollars of grant money received must be matched by at least one dollar from the grantee (for example, for a \$6,000 grant, your match would have to be at least \$2,000 of which at least \$500 would be a cash contribution). This program does require that a portion of this match be a cash contribution to the project. Please circle the appropriate amount of cash match below based on grant amount you are requesting:

**\$500 cash match (Grant < \$10,000)**                      **\$1,000 cash match (Grant > \$10,000)**

This remainder of the match can be an in-kind donation of labor, time and materials to install, establish and maintain the project. The time spent by the grantee, volunteers, local government or other non-state employees count toward meeting your in-kind match.

In-Kind Match Amount \$: **\$9,100**

For more information on the in-kind portion of the grant go to the SH Program Financial Manual on the web at:

[http://files.dnr.state.mn.us/assistance/grants/habitat/shorelandgrant\\_info.pdf](http://files.dnr.state.mn.us/assistance/grants/habitat/shorelandgrant_info.pdf)

## SHORELAND HABITAT GRANTS BUDGET TABLE

Time Period		Plants			Supplies			Equipment			Signs/Education			Labor			Total		
		Commo ns	Private	Total	Commo ns	Private	Total	Co mm ons	Pri vate	Tot al	Com mons	Priva te	Total	Commo ns	Private	Total	Commo ns	Private	Grand Total
<b>July 08 thru June 09</b>	Request ed funds	\$ 2,831	\$ 3,000	\$ 5,831	\$ 2,985	\$ 3,000	\$ 5,985	\$ -	\$ -	\$ -	\$ 500	\$ -	\$ 500	\$ 8,405	\$ 6,000	\$ 14,405	\$ 14,721	\$ 12,000	\$ 26,721
	Match (Cash)	\$ 500		\$ 500	\$ 500	\$ -	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000
	Match (in-kind)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,100	\$ 3,000	\$ 6,100	\$ 3,100	\$ 3,000	\$ 6,100
<b>July 09 thru June 10</b>	Request ed funds	\$ 300	\$ 300	\$ 600	\$ 100	\$ 100	\$ 200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400	\$ 400	\$ 800
	Match (Cash)		\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Match (in-kind)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500	\$ 1,500	\$ 3,000	\$ 1,500	\$ 1,500	\$ 3,000
<b>Total</b>		\$ 3,631	\$ 3,300	\$ 6,931	\$ 3,585	\$ 3,100	\$ 6,685	\$ -	\$ -	\$ -	\$ 500	\$ -	\$ 500	\$ 13,005	\$ 10,500	\$ 23,505	\$ 20,721	\$ 16,900	\$ 37,621
Total funds requested		\$ 3,131	\$ 3,300	\$ 6,431	\$ 3,085	\$ 3,100	\$ 6,185	\$ -	\$ -	\$ -	\$ 500	\$ -	\$ 500	\$ 8,405	\$ 6,000	\$ 14,405	\$ 15,121	\$ 12,400	\$ 27,521
Total Match (Cash)		\$ 500	\$ -	\$ 500	\$ 500	\$ -	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000
Total Match (in-kind)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,600	\$ 4,500	\$ 9,100	\$ 4,600	\$ 4,500	\$ 9,100

In-kind match includes donated time, supplies, equipment or land that is necessary for the completion of the project.

**Provide a brief description of the proposed project.** Please provide a written description of the project and the known issues you are trying to address with this project. If multiple properties are involved, please complete this information for each site. If you have completed a sketch of the project site that indicates the location and size of each of the planting zones (aquatic, transition, and upland), paths and existing structures that can be included as well.

### **PROJECT DESCRIPTION:**

#### **Project Areas to include:**

##### **1. Timberlake Association Commons Area on the shores of Mitchell Lake**

- **Owned by the Timberlake Association** (The Timberlake Homeowners association comprised of 83 properties is one of several Homeowners associations on the lake)
- **Located on Mitchell Lake between the residential addresses of 7998 Island Road and 8014 Island Road with approx 283 feet of lakeshore** (Note: Approx 100 feet is already natural, this project will focus on remaining shoreline)
- The Timberlake Association has partnered with Fortin Consulting to develop a preliminary plan to restore this lakeshore area with appropriate native plants. Today, the majority of this area is covered with non-native grass and a small sandy area. The grassy area currently runs down to the shoreline with no buffer to protect the lake water from run-off. The plan is to retain the sandy area, but replace the existing grasses native upland vegetation along with aquatic plants in the water. There will be no transitional planting due existing rip-rap.
- **Ref: Attached Preliminary Plan from Fortin Consulting** (Project managers would be Connie Fortin and Carolyn Dindorf of Fortin Consulting)

##### **2. Private Residential Shoreline properties on Mitchell Lake (to be identified later)**

- There are approx 110 private residential properties on Mitchell Lake, with many interested candidates for shoreline restoration. In our first informational meeting (6) Mitchell Lake homeowners have expressed interest restoring their shore, including; the Shea, Kuyava, Ludvig, Mulligan, Fundingsland and Nehl residences. The Mitchell Lake Association will partner homeowners to homeowners who have expressed interest to finalize the properties to be included in this initial shoreline restoration project. The private residences will have at least 75% of their shoreline restored with native aquatic, transitional and upland plants to create a 25 foot buffer.

**Describe the need and justification for the project.** Discuss why the project is being proposed and why it is important. Reference which ecological issues you are trying to address with this project. Quantify what is to be accomplished during the grant period and the expected ecological, social or economic benefits.

### **NEED/JUSTIFICATION:**

Mitchell Lake currently has very poor water quality with a current rating at a level of “D” as determined by the Twin Cities Metropolitan Council. The Mitchell Lake Association was formed in 2006 with the primary objective of improving the water quality of Mitchell Lake. The Association is actively engaged with the Riley Purgatory Bluff Creek Watershed District and the city of Eden Prairie to work on lowering existing and future levels of phosphorous in the lake which has been determined to be the key to improving the overall water quality. Lakeshore Restoration is viewed as another key strategy that can directly involve lakeshore owners to impact the water quality.

### **Key objectives of this project:**

1. **Improve water quality** by filtering out pollutants and runoff with a natural vegetation buffer zone. The area now consists predominantly of non-native grass right up to the shoreline which is mowed on a frequent basis.
2. **Improve fish and wildlife habitat** by expanding the diversity and abundance of native aquatic and shoreland plants
3. **Education** for residents of Mitchell Lake, Eden Prairie residents and the surrounding area of what Lakeshore Restoration is, what it looks like and the positive effects it can have on improving the water quality of a lake. The area can be viewed from the water or from the roadside from the public road of Island Road. It is the hope that this example will raise awareness of the value of native shoreline and aquatic vegetation and motivate and inspire others to follow suit on their properties.
4. **Reinforcement** of the principals and knowledge gained at an Eden Prairie sponsored Shoreline Restoration workshop held on June 2, 2007. At least seven members from the Mitchell Lake Association attended the workshop. It is the intention to use the knowledge gained from the workshop/seminar and apply it directly in implementing this project.
5. **Continue to build a sense of Community and Good Shoreland Stewardship** of the Mitchell Lake residents. The lake community has already demonstrated a strong desire to improve our natural resources through previous endeavors, such as 1) In 2005, approx 60 Mitchell Lake residents gathered to plant trees on the land bordering Mitchell Lake and State Highway 5, 2) In 2006, Mitchell Lake residents banded together to form the Mitchell Lake Association (membership currently at 101), 3) In 2007, approx 40 Mitchell Lake residents participated in a lakeshore cleanup event.

**Project Summary and Results:** Please provide a clear, concise summary of the project goals and the activities that will occur to accomplish these goals.

The project goal of the Mitchell Lake Lakeshore Restoration Project is to convert approximately 11,500 square feet of land including approximately 400 linear feet of lakeshore to native plants using best practices of lakeshore restoration.

1. **Improve water quality**
2. **Improve fish and wildlife habitat**
3. **Educate** Mitchell Lake and Eden Prairie residents about Lakeshore Restoration
4. **Reinforcement and demonstrate** the principals and knowledge gained at an Eden Prairie sponsored Shoreline Restoration Workshop
5. **Continue to build a sense of Community and Good Shoreland Stewardship** of the Mitchell Lake residents.

As the first shoreland restoration project for Mitchell Lake and for the City of Eden Prairie, both Mitchell Lake homeowners and Leslie Stovring, Environmental Coordinator for the City of Eden Prairie see this as a great community project to create a shoreland restoration showcase to help educate and inspire others to follow our lead.

**Project Methodology or Approach (i.e. how the work will get done).** Describe in detail, the procedures, activities and methods that will be used to accomplish the objective(s). Identify key personnel, cooperators and potential project location. Include a timeline for major project tasks.

**PROJECT PLAN:**

- **Aug '07**      **Initial Site Assessment** by Fortin Consulting
  - Fees paid by Timberlake Association
- **Aug '07**      **Prelim Shoreland Restoration Plan** by Fortin Consulting
  - Fees paid by Timberlake Association
- **Sept '07**      **Submit Shoreland Habitat Restoration Grant Application**
- **Feb '08**      **Notification of Grant Approval**
- **Mar '08**      **Finalize Mitchell Lake Shoreland Restoration Project Steering Team**
  - Who: Mitchell Lake Shoreland Restoration Project Lead
- **Apr '08**      **Finalize location of (3-5) Private residences for inclusion in project**
  - Who: Mitchell Lake Shoreland Restoration Project Steering Team
- **May-Jun'08**      **Visit other Native Shoreland Restoration Projects to solicit ideas**
  - Who: Mitchell Lake Shoreland Restoration Project Steering Team
- **May-Jun'08**      **Site Planning and Design**
  - Who: Mitchell Lake Shoreland Restoration Project Steering Team with Fortin Consulting
- **July '08**      **Finalize Landscape Plans and Material Lists**
  - Who: Approved by members of Mitchell Lake and Timberlake Associations and private property owners
- **July '08**      **Order Plants and Materials**
  - Who: Mitchell Lake Shoreland Restoration Project Lead
- **Aug '08**      **Site Preparation**
  - Who: Labor by members of Mitchell Lake and Timberlake Associations and private property owners
- **Sept-Oct '08**      **Plant and aquatic and upland plants**
  - Who: Labor by members of Mitchell Lake and Timberlake Associations and private property owners
- **Sept-Oct '08**      **Watering and Maintenance**
  - Who: Labor by members of Mitchell Lake and Timberlake Associations and private property owners
- **Apr-Oct '10**      **Watering and Maintenance**
  - Who: Labor by members of Mitchell Lake and Timberlake Associations and private property owners

**Dissemination.** How will you distribute the products, outcomes and results of this project?

**PROJECT DISSEMINATION PLAN:**

One of our primary objectives of this project is raise awareness of the value and beauty of natural shoreland restoration by creating a reference site. We plan to accomplish this objective by:

1. Educating Mitchell Lake Residents via hands-on involvement in project planning, planting and maintenance. Also, via association newsletters, meetings, and tours.
2. Creating signage for site to describe the Lakeshore Restoration Project and resulting benefits.
3. Organizing Lake Tours for neighboring Lake Associations
4. Submitting articles and photos to local newspapers
5. Documenting process along with photos on Mitchell Lake Association Website at <http://www.mitchelllake.org>

**Maintenance Plan:** Describe the proposed short-term and long-term maintenance activities for the project. Include information on who will be responsible for maintenance and when maintenance activities will occur. Please go to the Shoreland Habitat Web Page for more information about typical maintenance requirements for shoreland restoration projects.

#### MAINTENANCE RESPONSIBILITIES:

- **Timberlake Association Commons Area**
  - a. Timberlake Association Maintenance Committee will have primary responsibility for all short term and long term maintenance activities on the Commons Area
  - b. Mitchell Lake Association will provide assistance as needed
- **Private Residents Property**
  - a. Private Property Owners will have primary responsibility for all short term and long term maintenance activities for their own property
  - b. Mitchell Lake Association will provide assistance as needed

#### MAINTENANCE ACTIVITIES:

##### First Year Activities:

- **Watering** – Once/week as needed to ensure plants get 1 inch/week.
- **Weeding** - Once every 2 weeks as needed.
- **Plant Identification** - Become familiar with all new native plants on your project site. Also become familiar with weeds by obtaining a good weed identification handbook.
- **Mowing** - Once/week as needed.
- **Supplemental planting** - replace uprooted aquatic plants as needed
- **Maintain integrity of fencing**
- **Adjust Bio-Log as needed**

##### Second Year Activities:

- **Dead Vegetation** – Cut back in spring as needed
- **Weeding** – Thorough weeding in spring, then once every three weeks as needed.
- **Mowing** - Once/week as needed.
- **Water** - Once/week as needed to ensure plants get 1 inch/week.
- **Supplemental planting** - As needed in areas with low native plant survival.
- **Remove fencing**

##### Third Year & Beyond Activities:

- **Dead Vegetation** – Cut back in spring as needed
- **Weeding** – Thorough weeding in spring, then once every month as needed.
- **Supplemental planting** - As needed in areas with low native plant survival.
- **Prescribed Burn** – To be considered after 3 years

##### Monitoring

- Site monitoring should include noting successful species, weed problems, animal and human disturbances or issues and management needs. Site monitoring would ideally include written notes and photos of the site.
- Monitoring is recommended one hour per month through the growing season.

**To Apply:**

The deadline for submitting this application is **September 17, 2007**. Completed applications should be returned to the appropriate contact in the region where the project is located (see map below). You may also e-mail the applications if you prefer.

In December, a statewide committee will review and select projects to be funded.

Or for more information, contact John Hiebert, Shoreland Habitat Coordinator, at (651) 259-5212 ([john.hiebert@dnr.state.mn.us](mailto:john.hiebert@dnr.state.mn.us)) or the individual identified in your Region (see below).

**Northwest Region:**

Bob Ekstrom  
DNR – Fisheries  
2114 Bemidji Ave.  
Bemidji, MN 56601  
(218) 755-2974

[robert.ekstrom@dnr.state.mn.us](mailto:robert.ekstrom@dnr.state.mn.us)

**Central Region:**

Neil Vanderbosch  
DNR - Fisheries  
1200 Warner Road  
St. Paul, MN 55106  
(651) 772-7956

[neil.vanderbosch@dnr.state.mn.us](mailto:neil.vanderbosch@dnr.state.mn.us)

**Northeast Region:**

Wayne Mueller  
DNR – Fisheries  
1601 Minnesota Drive  
Brainerd, MN 56401  
(218) 828-2735

[wayne.mueller@dnr.state.mn.us](mailto:wayne.mueller@dnr.state.mn.us)

**South Region:**

Leilani Peterson  
DNR - Fisheries  
Sibley State Park  
800 Sibley Park Road NE  
New London, MN 56273  
(320) 354-0009

[leilani.peterson@dnr.state.mn.us](mailto:leilani.peterson@dnr.state.mn.us)

