

CPL Applications
(Total to date: 129)

Conservation Partners Legacy Grant Application

CPL1000070

Spreadsheet

Name and Contact

Project Identifier:	CPL1000070	Street Address 1:	P.O. Box 838
Project Name:	Long Lake Water Quality and Fish Habitat Restoration Project	Street Address 2:	
Organization Name:	Valley Branch Watershed District	City:	Lake Elmo
Organization Website:	www.vbwd.org	State:	MN
Organization Contact Person:	Lincoln Fetcher	Zip Code:	55042
Contact Email:	lfletcher@isd.net		
Contact Phone:	651-779-9780		

Location

Primary County: Washington
Nearest City: Pine Springs/Mahtomedi
Township:
Project Site Name: Long Lake (DNR-82011800)
Project Site Land Ownership: State
Other Land Ownership:

Project Information

Primary Activity: Restoration
Primary Habitat Type: Fish, Game or Wildlife Habitat
Total Project Acres: 49
Total Project Sites: 1
Total Grant Amount: \$109565
Requested:
Total Match Amount: \$16278
Total Project Cost: \$125843
Project Completion Date: 06/2012 (MM/YYYY)

This project will enhance fish habitat in Long Lake, a 49 ac lake near I694 and Hwy 36 in Washington County, Minnesota. A VBWD study concluded that severe DO depletion in the lake was likely having a detrimental effect on lake biota (zooplankton and fish). Severe DO depletion is caused by lake bathymetry and saline bottom waters. This proposal will enhance zooplankton and fish habitat in Long Lake by raising DO in the water column. This effort will be useful for the MDNR, as aeration is often identified to improve a lake fishery, but pre-and post-project benefits are infrequently evaluated. Evaluation metrics: increased DO, zooplankton population, and diverse fish community.

Attachments

- [Project Site Information Form](#)
- [Project Budget and Match Description](#)
- Partner Commitment Letter
- Financial Documentation
- Conservation Easement
- Supplementary Attachment #1
- Supplementary Attachment #2

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Conservation Partners Legacy Grant Program

Project Site Information

Contact information

Project name:	Long Lake Water Quality and Fish Habitat Restoration Project
Organization:	Valley Branch Watershed District (Lincoln Fetcher-President)
Organization contact person (Project Manager):	Keith Pilgrim-Barr Engineering

Project information

Project site:	Long Lake (DNR-82011800)				
Project site land manager	Legal :	T29N	R21W	S5	QNW
or easement holder:	Jeff Gorton-Area Fisheries Manager, DNR				
Private land owner	County:				
(if applicable):					

Activity (may choose more than one): ☒ Enhancement ☒ Restoration ☐ Acquisition
Predominant Habitat (choose one): ☐ Forest ☐ Prairie ☐ Wetland ☒ Fish, Game and Wildlife Habitat
Activity quantity: ☒ Acres ☐ Miles ☐ Feet ☐ Structures ☐ Wetlands

Project Site #2, if needed.

Project site:					
Project site land manager	Legal :	T	R	S	Q
or easement holder:					
Private land owner	County:				
(if applicable):					

Activity (may choose more than one): ☐ Enhancement ☐ Restoration ☐ Acquisition
Predominant Habitat (choose one): ☐ Forest ☐ Prairie ☐ Wetland ☐ Fish, Game and Wildlife Habitat
Activity quantity: ☐ Acres ☐ Miles ☐ Feet ☐ Structures ☐ Wetlands

Project Site #3, if needed. Use Additional Project Sites form if needed.

Project site:					
Project site land manager	Legal :	T	R	S	Q
or easement holder:					
Private land owner	County:				
(if applicable):					

Activity (may choose more than one): ☐ Enhancement ☐ Restoration ☐ Acquisition
Predominant Habitat (choose one): ☐ Forest ☐ Prairie ☐ Wetland ☐ Fish, Game and Wildlife Habitat

Activity quantity: ☐ Acres ☐ Miles ☐ Feet ☐ Structures ☐ Wetlands

Project timeline:

Time frame	Goal	Time frame	Goal
April-October 2010	Monitor lake prior to aeration installation		
April 2011 through October 2012	Install and operate mechanical mixer in lake		
April 2011 through October 2012	Monitor lake (water quality and biota) to evaluate benefits of lake mixing		

Project description and benefits (box will expand as typed into, not to be longer than 2 pages):

This project will enhance fish habitat in Long Lake, a 49-acre (main body of lake) dimictic lake located near the intersection of Interstate 694 and Highway 36 in Washington County, Minnesota. In 2007, a Valley Branch Watershed District study concluded that severe dissolved oxygen depletion in the lake was likely having a detrimental effect on lake biota (zooplankton and fish). One-dimensional modeling results suggest that the severe dissolved oxygen depletion is caused by lake bathymetry and because highly saline waters accumulate on the lake bottom (specific conductance around 1,000 us/cm).

This proposal will enhance zooplankton and fish habitat in Long Lake by installing a commercially available solar-powered lake mixing device (currently identified as a Solar Bee). The mixing device will increase available lake habitat for zooplankton and fish by improving dissolved oxygen levels throughout the water column. This effort will be useful for the Minnesota Department of Natural Resources, as aeration is often identified as a method to improve a lake fishery, but data of the pre-and post-project benefits are not frequently evaluated.

The monitoring plan in this proposal is designed to evaluate the effects of the installed mixing device on the biota and water quality of the lake. Water quality monitoring has been conducted for more than 20 years, and phytoplankton and zooplankton monitoring have been conducted for more than 10 years. Monitoring will include temperature, dissolved oxygen, specific conductivity, phosphorus, chlorophyll a, phytoplankton numbers and species, and zooplankton numbers and species. Specific metrics include: increase the aerobic zone (i.e. approximately 2-3 mg/L dissolved oxygen) of the lake from a current depth of 3 meters to 6.5 meters with mixing device installation, increase in the number of cladocera in the entire lake water column, greater vertical distribution of zooplankton in the lake, and with DNR involvement begin to characterize the fish population in the lake and the effect of improved aeration with mixing.

Please provide the answers to the following questions. Boxes will expand as typed into.

1. For lands acquired in fee title that will be turned over to a public agency for long-term management:

- a. Provide a description of the work necessary to bring the land up to agency standards and an estimate of the associated cost.

- b. What short- and long-term work is required to manage the land you acquire?

2. For enhancement/ restoration projects on public lands:

- a. Who is/will be the long-term manager for the project site?

Valley Branch Watershed District

- b. What short- and long-term maintenance work is required to sustain the habitat work you will do?

- c. Who will complete this maintenance work, and how will it be funded?

- d. Will the CPL funds supplant any existing funds?

As required by 2009 MN Session Law, Chapter 172 subd. 10 (8), “any agency or entity receiving an appropriation must, for any project funded in whole or in part with funds from the appropriation, give consideration to and **make timely written contact with the Minnesota Conservation Corps** for consideration of possible use of their services to contract for restoration and enhancement services”. Contact MCC at cplg@conservationcorps.org, or email a copy of this form to the same address. For more information on costs, crew capabilities, etc., visit MCC’s website at <http://www.conservationcorps.org/useacrew.html>.

Signature:

☒ I certify that I have read the Conservation Partners Legacy Grants Program **Request for Proposal, Program Manual** and other program documents, and have discussed this project with the appropriate

public land manager, or private landowner and easement holder. I am authorized to apply for and manage these grant and match funds, and the project work by the organization or agency listed below. I have made timely written notification to MCC regarding my restoration or enhancement project.

Signature:		Organization/ Agency: Valley Branch Watershed District
Title: President		Date: 11/2/09

Please save this document to your computer or electronic storage device and attach this document as specified on the online submittal form when ready to apply. Contact CPL Grant Staff with any questions.

CPL Project Application Review and Approval Form

REVIEWER INFORMATION

Land manager/ easement holder name:	Jeff Gorton-DNR Fisheries		
Title:	Assistant Area Fisheries Manager	Date of meeting:	10/19/09
Phone:	651-259-5759	Proposal ID #:	
Email:	jeff.gorton@state.mn.us	(assigned by agency, optional)	

PROJECT INFORMATION:

Project Name:	Long Lake Water Quality and Fish Habitat Restoration Project	Organization:	Valley Branch Watershed District
Contact Person:	Keith Pilgrim		Barr Engineering
Email:	kmp@barr.com	Daytime Phone:	952-832-2793

Please check the appropriate boxes:

- ☒ I have read the application and discussed this proposed project with the above listed Organization Contact Person.
- ☐ For work on easements, the private landowner has been contacted and has given support and approval for this project.

I have performed a Natural Heritage Database review and found:

- ☒ this project to have no features within one mile.
- ☐ this project to have features within one mile, but project is not likely to adversely affect those features. I have recommended the following minimization strategy:

- ☐ this project is likely to adversely affect Natural Heritage features. I feel that this project is important and should be forwarded to DNR Ecological Resources staff for further review.

- ☐ I do not have access to the Natural Features database and will forward this completed form to DNR within 3 business days to [CPL Staff at LSCPLGrants.DNR@dnr.state.mn.us](mailto:LSCPLGrants.DNR@dnr.state.mn.us) for review.

I have discussed what role my office will be expected to have in this project and find that the project, as described will require:

- ☒ minimal or no involvement from my office for completion.
- ☐ a commitment of involvement by staff that is reasonable and can be accomplished with current staffing levels and workload.

- ☐ an amount of staff involvement that cannot be committed during the project time period with current staffing levels. Unless additional staffing can be committed from other offices, Divisions or appropriate partners, I feel this project cannot be completed within the project timeline to our desired standards.

CPL Project Application Review and Approval Form

- ☐ I have discussed permits and applications that the applicant may be responsible for using the Working on DNR Lands and Working on Public Lands, or Working on Private Lands documents.

Upon final review of this project:

- ☒ I find this project to be consistent with sound conservation science. This work will benefit area fish, game and wildlife by restoring, enhancing or protecting forests, wetlands, prairies and habitat and is consistent with the management or stewardship plan for this land. (APPROVAL)
- ☐ I find that this project does not follow the management or stewardship plan for this land and does not fit within the long range goals for this land at this time on the local level. (DECLINE)
- ☐ I find that this project should be sent up to a higher level within the agency for further review and decision. I have forwarded the Project Planning Form and this Review and Approval Form for further review to:

Name:	Jeffrey Gorton	Phone:	(651-259-5759
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- ☒ By checking this box and typing my name below I certify that I have met with the above applicant and discussed the proposed project and have provided feedback to the applicant.

Name:	Jeffrey Gorton
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Comments: I discussed with the applicant that this project would be more likely to be funded if the effected waters (Long Lake) had public access. This project will only impact riparian owners as the public has no access to this lake.

Name:	Jeffrey Gorton	Phone:	5759
Title:	N.R. Specialist INT.	Email:	jeff.gorton@state.mn.us

Additional
necessary):

Comments(including approval or denial, reasoning):

review (if

Conservation Partners Legacy Grant

Project Budget and Match Worksheet, Application Requirement

Project name:

Long Lake Water Quality and

Fish Habitat Restoration

Project

Organization:

Valley Branch Watershed

District

Organization contact person (Project Manager):

Keith Pilgrim-Barr Engineering

Please complete all sections and be as detailed as possible for all descriptions under the Details sections. Limit entries in large tables to numbers only, **round to the nearest dollar**. Do not edit table categories, only enter values or text into the table. The tables will adjust to accommodate additional text in each box. If all categories are not needed, please leave those fields blank.

BUDGET: amounts being requested **Note: FY refers to State Fiscal Year: July 1- June 30, with the year reflecting the year that June falls in. For example: if today were September 3rd, 2009 it would be FY2010; December 3rd 2010= FY2011; May 2012= FY2012

Budget Item	Fiscal Year 2010	Fiscal Year 2011	Fiscal Year 2012	Total
Personnel				
Contracts				
Grant Administration				
Administration/ Environmental Compliance				
Fee Acquisition				
Easement Acquisition				
Easement Stewardship				
Equipment/Tools/Supplies		\$109,565.00		\$109,565.00
Travel				

Additional Budget items				
Total				

DETAILS: detail the amounts listed in the above table.

Personnel Details:

Name	Title	Amount

Contract Details:

Contractor Name	Contracted Work	Amount

Grant Administration:

Administrative Activity	Description/ Amount	Amount

Administration/ Environmental Compliance

Activity	Description	Amount

Fee Acquisition/ Easement Acquisition/ Easement Stewardship Details:

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Equipment/Tools/Supplies Details:

Item	Use	Amount
2 Mechanical Mixing/Destratification	Aeration of Long Lake-Mechanical mixing of the lake water column to increase dissolved oxygen	\$109,565.00

Devices		

Travel Details:

Miles	Purpose	Amount

Additional Budget Items Details:

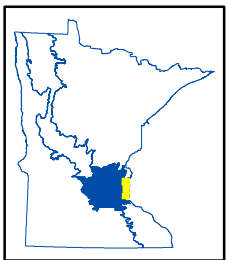
The equipment/tools/and supplies is the capital and installation cost of the mechanical mixing device for Long Lake.

MATCH: Required 10% of total project funds, to be fulfilled by end of Fiscal Year 2012. Use provided rate sheet to determine unit rate and total value of in-kind services to be used as matching funds if applicable.

Source	Description	Units	Unit Rate	Total Value
Valley Branch Watershed District	Equipment Installation Coordination	40	\$52.8	\$2,112.00
Valley Branch Watershed District	Water Monitoring 2 Years-Labor	104	\$37.4	\$3,889.60
Valley Branch Watershed District	Water Monitoring-Analytical Expenses	174	\$49.9	\$8,676.00
Valley Branch Watershed District	Water Monitoring-Travel and Equipment Expense	16	100	\$1,600

Matching description/ comments: if needed

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CPL100-070

Long Lake Water Quality and Fish Habitat Restoration Project

Washington County, LSOHC Metropolitan
Urbanizing Area Planning Section

