

Clean Water Fund Project Application



Project name:	HLWD Enhancement and Sediment Reduction Projects		
Date of application:	December 15, 2015	Contact address:	PO Box 345 Heron Lake, MN 56137
Local Government unit:	Heron Lake Watershed District		
Contact name:	Jan Voit	Contact phone:	507-793-2462
Contact title:	District Administrator	Contact e-mail:	jan.voit@mysmbs.com

Water resource of concern:	Jack Creek, Okabena Creek, Heron Lake, Fulda Lake		
BMP to be installed: [choose from the drop-down]	Streambank and shoreline protection		
	Restoration and management of declining habitat		
	CLICK HERE		
Pollutant reduction estimate: [choose from the drop-down or insert estimator under "other"]	Pollutant	Amount	Estimation method:
	Sediment - TSS (tons/yr)	123.75	BWSR Estimator (stream & ditch stabilization)
	Phosphorus - est. reduction (lbs/yr)	105.19	BWSR Estimator (stream & ditch stabilization)
	CLICK HERE		CLICK HERE
	CLICK HERE		CLICK HERE

Est. length of crew time required: [# of days based on a 5 person crew]	4 days	Season/Dates preferred: [crews are available Mar 1 - Dec 10]	March 1-June 15
Project location: [address or physical description] Attach aerial photo/map with project location	Site 1-Jackson County, West Heron Lake Township Section 12 SW ¼ (Cedar Revetment) Site 2-Nobles County, Hersey Township Section 32 NW ¼(Cedar Revetment) Site 3- Murray County, Bondin Township Section 26 SE ¼ (Cedar Revetment) Site 4- Murray County, Bondin Township Section 26 SE ¼ (Maintenance) Site 5-Nobles County, Seward Township Section 21 (Maintenance)		
Detailed description and purpose of project including desired outcomes:	Through this effort, the Heron Lake Watershed District (HLWD) intends to stabilize three streambank sites in Nobles, Jackson, and Murray County using a cedar revetment method. The purpose of the cedar revetment projects is to reduce sediment from moving through Jack Creek, the major stream leading to Heron Lake. The cedar revetments will trap sediment to rebuild the streambank over time. The HLWD also intends to do maintenance on two different properties, both restored prairie. At both sites, the HLWD has installed a grade stabilization structure to capture sediment from 2,000 acres of agriculture drainage. The properties have been burned and mowed within the last two years and the purpose of this year's maintenance is to spot spray roughly 20 acres to help with Canadian Thistles and other invasive weeds that are coming in heavy because of the burn. Both cedar revetment projects and prairie enhancement will have sediment reduction benefits but also help with wildlife habitat, aquatic habitat, and support native plant growth.		

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Description of crew responsibilities and tasks to be carried out:	Cedar Revetments: Cut unwanted cedar trees (about 6 feet tall) and transport them to eroding streambank sites. Place cedar trees along eroding banks and hammer anchors in to secure trees. Management-spot spray: identify invasive species, such as Canadian Thistles and spot spray with hand help sprayer.
List hand and power tools needed for the project:	Chainsaws, protective gear, and waders for in-stream work. Cedar Revetment installation tools will be provided by HLWD staff. Hand sprayers, if available (the HLWD only has 2 or 3). Any other protective gear needed for spraying round up.

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<p>Double-click to check the box that best describes the project. [Projects will be funded based on priority level, listed from high to low]</p>	<p><input checked="" type="checkbox"/> HIGH - New installation or establishment of BMP's</p> <p><input type="checkbox"/> MEDIUM - Maintenance of newly established BMP's (within a 3-year establishment period)</p> <p><input checked="" type="checkbox"/> LOW - General maintenance beyond the establishment period</p>
<p>Is all permitting, contracting, landowner consent completed? If not, what is still required which may cause delay or cancellation of this project? Please explain.</p>	<p>All landowners have been contacted and are supportive of all projects.</p>
<p>Has a TMDL implementation plan, watershed management plan, county comprehensive local water management plan, local surface water management plan, metro groundwater plan, surface water intake plan or well head protection plan been approved and locally adopted? Please explain.</p>	<p>The West Fork Des Moines River and Heron Lake Total Maximum Daily Load (TMDL) Implementation Plan was approved in September 2009. Findings of the TMDL assessment indicate a need to reduce turbidity by 20 percent to 90 percent.</p> <p>The HLWD Watershed Management Plan was approved in March of 2012. Objective 5.3-3 Action 5.3-3d: Provide information, resources, and examples to encourage citizens on how to improve stream bank stability by using BMPs (e.g., streambank buffers, two-stage ditches, cedar revetments, J-hook weirs, and similar practices).</p>
<p>How will this project ensure practices implemented will be of long-lasting public benefit with a minimum 10 years effective life?</p>	<p>The HLWD has been using cedar revetments for over five years as a streambank restoration technique. Each project site has seen a reduction of sediment and phosphorus reaching watershed streams and lakes due to the sediment dropping out in the cedar trees. The other management site are located within a mile of Fulda Lake and located along Jack Creek, a main channel that drains to Heron Lake. The establishment of native grasses will help capture sediment from over 2,000 acres of agricultural drainage before entering these two main lakes. Landowners will sign a cost-share agreement which states the practice will be in place for a minimum of 10 years. All project sites are checked every year by the HLWD to ensure the practice is still working properly.</p>
<p>Describe the project's educational value and/or on-site education provided to the crew.</p>	<p>HLWD staff will be onsite with crew for additional assistance. HLWD will also provide training on cedar revetment tools for installation, prairie plant identification, and other prairie maintenance techniques.</p>
<p>Local financial contribution - itemized description and amount: [While there is no required match minimum, local financial contribution is still desired. Input in-kind staff time, non-state funds and/or project materials and total \$ amount]</p>	<p>HLWD Inkind: -Staff time=\$1,594.00 -Other Supplies= \$200.00</p>

Application Deadline December 15!

Submit completed electronic Project Application in MS Word format with PDF aerial photo/map of project location to cleanwater@conservationcorps.org

Conservation Corps Minnesota

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