



Knife River Watershed Protection Project



Clean Water Funds: 2012

Clean Water Grant	\$282,634
Leveraged Funds*	\$94,212
Total Project Budget	\$376,846

* Leveraged Funds include

Targeted Water:
Knife River

Project Sponsor:
Lake County Soil and Water Conservation District

Grant Period:
January 2012—December 2014

Project Contact:
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C12-36 - Clean Water Assistance

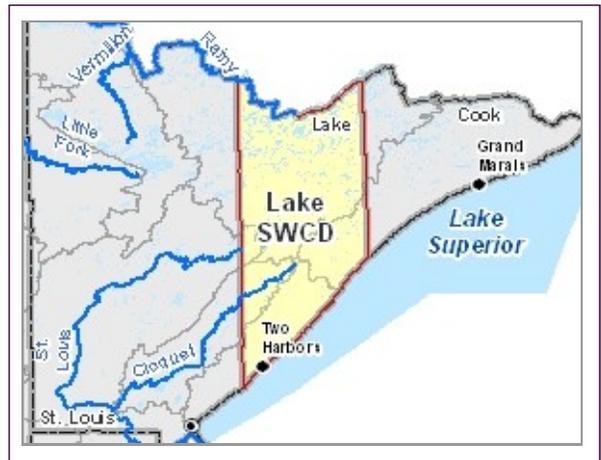
Project Narrative

The Knife River is a state protected water and a Designated Trout Stream. It is nationally known as a prime fresh-water steelhead fishery and is managed as a cold-water trout fishery for native species including brook trout. The Knife River is characterized by steep gradients, multiple waterfalls and cascades, tea-colored water, and remnant old-growth forest cover types including white pine, Norway pine and white cedar.

For all its attributes, the Knife River does not meet water quality standards for sediments and turbidity. This project will restore two severely eroding streambank sites along the river

identified as producing the greatest sediment loads of the entire river system. The benefits from a stable channel in this location include reduced sediment downstream, less sediment pollution into Lake Superior and protection of native riparian plant communities. Toe wood combined with rock stream vanes will decrease bluff erosion and create beneficial fisheries habitat through the introduction of much needed woody debris.

Both project sites will be fully restored and stabilized with state-of-the-art engineering practices that have been successfully implemented on North Shore streams. Once the sites are fully restored, sediment loading to the Knife River will be reduced by 17 percent.



Proposed Outcomes:

MacDonald Streambank Project - Toe Wood Floodplain Bench, Stream Vanes, Critical Area Stabilization, Large Woody Debris/Root Wads - Knife River

Mead Streambank Project - Toe Wood Floodplain Bench, Stream Vanes, Critical Area Stabilization, Large Woody Debris/Root Wads - Knife River

Critical Area Stabilization on Undisturbed Slopes - Native Trees, Native Grasses & Forbs, Hydraulic Mulch Comparison/Demonstration - Knife River

Actual Outcomes:

Project in Progress

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