



Rock River Streambank Stabilization & Turbidity Reduction



Clean Water Funds: 2010

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|----------------------|----------|
| Clean Water Grant | \$25,000 |
| Leveraged Funds* | \$52,903 |
| Total Project Budget | \$77,903 |

* Leveraged Funds include required 25% local match

Targeted Water:
Rock River

Project Sponsor:
Rock LMO/SWCD

Partners:
US Fish & Wildlife Service, MN DNR,
Southwest Prairie TSA, CCM

Grant Period:
January 2010 - December 2011

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Project Narrative

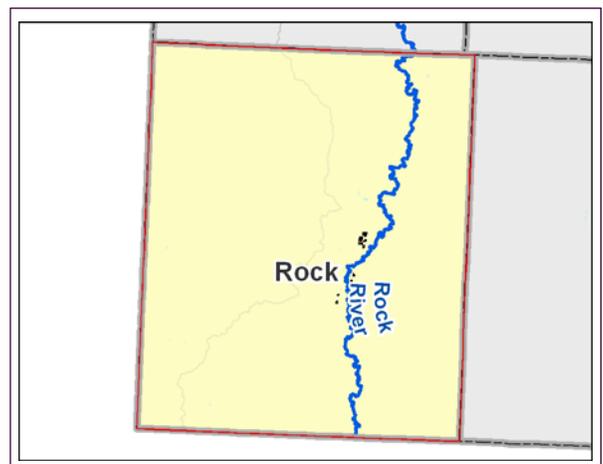
Numerous studies have shown that stream bank erosion can be a significant contributor to the decline of water quality in the Rock River. The Clean Water dollars provided for this project assisted in three stream bank projects that will address the turbidity (muddiness) impairment of the Rock River and bring the river closer to the level of water quality required for the EPA Clean Water Act.

The \$25,000 of Clean Water dollars were successful in leveraging \$25,017.69 of US Fish and Wildlife funding, \$ 2,500 from Conservation Corps Minnesota & Iowa, as well as \$25,385 of landowner and SWCD in-kind. The stabilization projects included placement of rock j-hooks, back-sloping the vertical face of the stream bank, stabilizing the stream bank with erosion control fabric, hydro-mulching and seeding the exposed banks and seeding the upland buffer with deep-rooted native grasses.

Two of the sites were completed in 2010 while the third site was only partially completed due to heavy rains late in the summer of 2010. An exemption for construction during the Topeka Shiner's spawning period was applied for and received. In July of 2011 the third site was successfully completed with the assistance of the Conservation Corps Minnesota & Iowa and the banks were back sloped at 3 to 1 and stabilized with matting and hydro-seed.

Actual Outcomes

These three stream bank reaches total over 900 feet of shoreline with 5 to 15 foot eroding vertical stream banks. Prior to completion, these areas were estimated to be contributing over 605 tons of soil per year to the river.



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Rock River streambank stabilization sites

