Project Profile

Colberg Streambank Stabilization *Centerville, MN*

Streambank Stabilization

Project Summary

A streambank stabilization project on a residential property along Clearwater Creek in Centerville, MN was completed during the fall of 2011 to correct significant erosion. An Envirolok vegetated wall system, rip-rap, erosion control fabric, seeding, and runoff control practices were installed to protect the bank from undercutting by the creek as well as erosion from overland flow. Portions of the bank were graded to a 3:1 slope, suitable for stabilization with vegetation. Other areas with steeper than 3:1 slopes, but no steeper than 2:1, were stabilized with additional erosion control techniques. The stabilization project corrected active erosion, significantly reduced sediment inputs to Clearwater Creek, and improved available wildlife habitat. Funding for the project was provided by the Rice Creek Watershed District (RCWD) cost share program and the landowner.

Completed project early in the fall of 2011.

Project Specs

Date Installed	September 2011
Project Length	100 feet
Buffer Width	60 feet
Total Stabilization Area	6,000 square feet

Project Funding

RCWD Cost Share	$9,958.24
Landowner Contribution	$9,958.24
Total Project Cost	$19,916.48

Installation Process

Pre-stabilization conditions consisted of an actively eroding streambank and sparse understory vegetation, which provided no benefits to water quality or wildlife habitat.

The Envirolok vegetated wall system was installed at the toe of the streambank, and the rest of the bank was graded to achieve acceptable slopes (3:1 to 2:1).

Erosion control fabric was placed prior to seeding and planting with deep-rooted native vegetation to provide additional bank stability.