



# Improving Woodchip Bioreactors for Agricultural Nitrate & Phosphorous Reduction in Dodge County



## Clean Water Funds: 2011

Clean Water Grant	\$19,225
Leveraged Funds*	\$6,660
Total Project Budget	\$25,885

\* Leveraged Funds include required 25% local match

### Targeted Water:

South Branch of the Middle Fork of the Zumbro River

### Project Sponsor:

Dodge County

### Partners:

Dodge SWCD, Minnesota Department of Agriculture, University of Minnesota

### Grant Period:

January 2011 - December 2012

### Project Contact:

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## Project Narrative

Agricultural drainage is very prevalent practice in Dodge County and there is a need to implement practices to that will better manage flow and pollutant loads that are being contributed to nearby surface waters. This project involves the installation of a woodchip bioreactor on a tile-drained agricultural field, which will feature improvements in design, and monitoring scope, as compared to a previous bioreactor constructed in Dodge County in 2007. The bioreactor for this project will demonstrate a cost-effective way for agricultural producers to reduce the nitrate level of tile discharge water, and further the understanding of how these same units can aid in phosphorous management, as well.

## Actual Outcomes

This project will install one woodchip bioreactor to mitigate nitrate impacts from agricultural drainage from a 17 acre watershed.

