

LINCOLN SOIL AND WATER CONSERVATION DISTRICT



FY2011-Clean Water Funds: Verdi Wellhead Protection Area Project

Water of Concern:

Ground Water Protection: Verdi Well Field

CWF Grant Awarded:

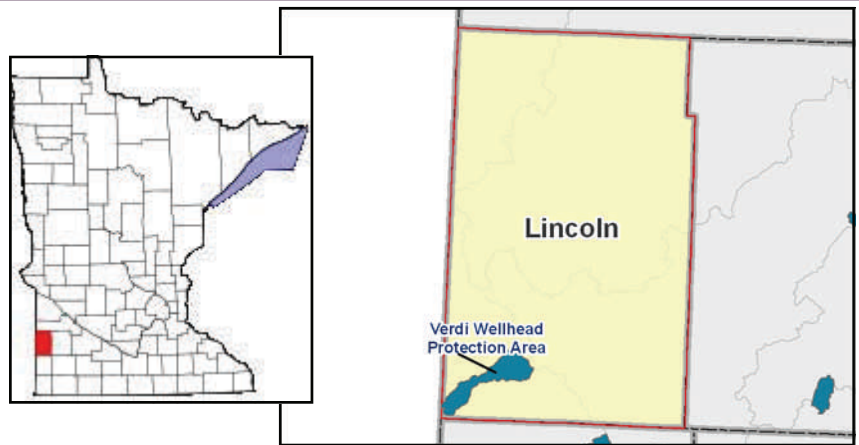
Verdi Well Field: \$184,210

Leveraged Funds:

Lincoln-Pipestone Rural Water: \$32,500
Landowners: \$15,000

Grant Funds Remaining: \$126,020.25

Grant Period: From: 1/1/2011-12/31/2013



Project Partners

- Lincoln-Pipestone Rural Water
- Natural Resources Conservation Service
- Department of Natural Resources
- Department of Health
- Rural Water Association
- Department of Agriculture

CWF Expenditures by Category

Technical/Administrative Assistance Funds

Item:	Total	Encumbered/Spent
Administrative	\$9,210	\$3,456.75
Leveraged Funds: LPRW	\$32,500	\$8,116

Implementation Funds

Nutrient Mgmt Plan	\$60,000	\$17,304
Variable Rate Technology	\$10,000	\$1,296
Nitrogen Stabilizers	\$60,000	\$13,858
Filter Strips	\$45,000	\$22,275
Leveraged Funds: Landowners	\$15,000	\$49,973.22
Total Imp. Funding	\$145,000	\$54,733
Total CWF Budget	\$231,710	\$66,305.75

Overall Project Description

Project partners play a vital role in the implementation of the Verdi Wellhead Protection Plan and have made this water source a priority in lowering nitrate levels. The aquifer used by the wells in the Verdi Well Field consists of a sand and gravel horizon about 30' thick which overlies clay-rich till. The geological sensitivity in all five of the Verdi wells is classified as "high".

The Verdi Well Field supplies water to ten community water suppliers, 34 large rural users, and 1,126 rural hookups. Total population served by this water supply is about 7,500. It is the only water supply source Lincoln-Pipestone Rural Water has in Lincoln County and functions as a backup water source to both the Holland and Burr water sources.

Water quality monitoring indicates presence of nitrate nitrogen in the wells. The nitrate levels in the wells indicate that the wells pump groundwater that is under the influence of sources of nitrogen related to human activities.

Nutrients that are not effectively utilized by crops have potential to leach into groundwater or enter nearby surface waters via overland runoff or subsurface agricultural drainage systems. A major principle of crop nutrient management is to prevent the over-application of nutrients. These projects are designed to decrease surface runoff and filter sediment, nutrients, and pesticides before reaching surface and ground water. The goal of this project is to reduce nitrate levels in this water supply. This will be accomplished by providing landowners educational information and provide incentives to assist with the following: develop a nutrient management plan, utilize variable rate technology, utilize nitrogen stabilizers and nitrogen efficiency products and install filter strips.

PROJECT CONTACTS:

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