



Clean Michigan Initiative Nonpoint Source Grant



Schoolcraft Conservation District

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Manistique River Watershed System Streambank Stabilization

April 15th, 2001 - March 31st, 2004

The Manistique River Watershed lies within portions of five central Upper Peninsula counties; Alger, Delta, Luce, Mackinac and Schoolcraft and drains 935,040 acres before emptying into Lake Michigan. The Driggs River, a tributary to the Manistique River, drains 81,770 acres in Seney Township, Schoolcraft County. The upper reaches of the watershed consist of State and private forest, with small holdings of private recreational land. The lower watershed is part of the Seney Wildlife Refuge. A study conducted in 1994 showed 115 erosion sites covering 10,821 feet of stream bank that contributes an estimated 3,000 tons of sediment each year to the Driggs River. The goal of this project was to stabilize four of the most severely eroding stream banks on the Driggs River to reduce sediment loading. The Clean Michigan Initiative grant awarded by the Michigan Department of Environmental Quality Water Division was a major contributor in meeting our goal, and resulted in the stabilization of 1,273 linear feet of stream bank.



Grant Amount: \$ 72,095

Match Funds: \$ 24,196

Total Amount: \$ 96,291



Best Management Practices:

- 834 tons of rock riprap placement
- 49 wooden stairway steps
- 2.3 acres of critical area treatment (native grasses)
- 42 root-wad revetments
- 114 tree revetment placement
- 35 lunger structure placement
- 160 cu. yd. brush mulch mattress placement



Annual Load Reductions:

- 363 tons of sediment reduced annually
- 309 lbs of phosphorus reduced annually
- 617 lbs of nitrogen reduced annually

I&E Activities: (current to be outside the scope of the project)

- Published Article in Conservation District Newsletter (700 copies)
- Published Article in the Pioneer Tribune
- Powerpoint presentation at Conservation annual meeting



Partners involved:

- Schoolcraft Conservation District
- Fish America
- US Fish & Wildlife
- Manistique Papers Incorporated
- Edison Soo Electric
- Manistique River Watershed Partnership
- MDNR-Fisheries Division
- Upper Peninsula Resource Conservation & Development Council
- Trout Unlimited
- Schoolcraft Community Foundation





Site 1 before implementation of practices.



Site 1 after the implementation of an erosion control blanket, rock riprap, and native grass seeding.



Site 2 before implementation of practices.



Site 2 after the implementation of 280 feet of lunker structures, brush mattress, riprap, and native grass seeding.