



Clean Michigan Initiative
 Nonpoint Source Grant
 2002-0036



Kalamazoo County Road Commission
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Kalamazoo County Road Crossing at DE Avenue

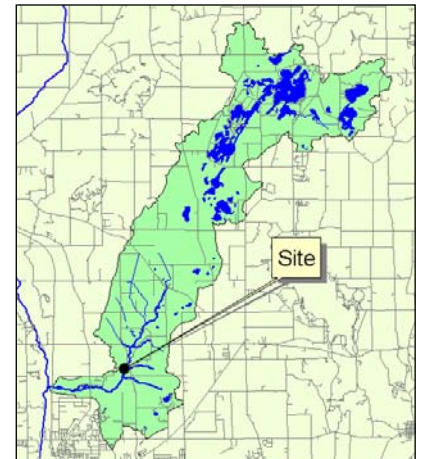
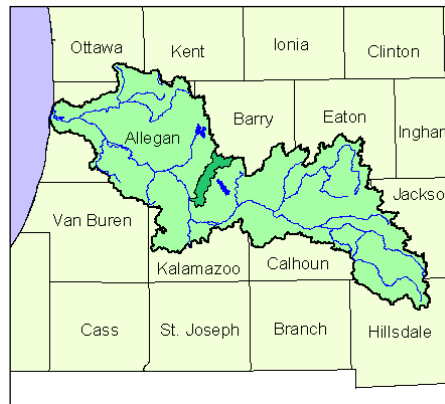
04/04 thru 12/05

A paved roadway with steep grades, a 65-year-old bridge, and several adjacent residential driveways west of the DE Avenue/Spring Brook crossing were contributing excessive amounts of sediment and nutrients to Spring Brook. A small tributary of the Kalamazoo River, Spring Brook encompasses approximately 14 square miles within Richland and Cooper Townships. It is a comparatively high gradient water course due to the rolling nature of its watershed. Land use in the watershed is largely characterized by light to medium density residential estates, open space/wooded, and agricultural properties. It's been designated by the MDNR as one of Southern Michigan's highest quality wild trout streams. The goal of this project was to stabilize the road-stream crossing to reduce sediment entering Spring Brook.



Grant Amount: \$ 123,400
Match Funds: \$ 102,700

Total Amount: \$ 226,200



Best Management Practices:

- 14 Check Dams
- 4 Grass Waterways
- 5 Grade Stabilization Structures
- 810 linear feet Storm Water Conveyance Channel
- 2 Oil/Grit Separators



Annual Load Reductions:

- Sediment 3.1 tons
- Phosphorous 1 pound
- Nitrogen 3 pounds



Steep road slope and open ditch line led to high sediment loading of brook.

Partners involved:

- Cooper Township
- Richland Township
- Kalamazoo Chapter Trout Unlimited
- Michigan Department of Natural Resources

Storm water diverted through BMP system reduces sediment.

