

STREAMBANK RESTORATION SOUTHERLAND PARK, KALAMAZOO, MICHIGAN

This project involved non-point source streambank erosion repairs along the Kalamazoo River at the City of Kalamazoo's Southerland Park. It was conducted as part of the larger Kalamazoo River Water Quality Trading Demonstration Project, one of the five U.S. EPA-supported water quality trading projects in the country in the late 1990's. The overall project sought to identify and demonstrate the environmental and economic benefits of watershed-based nutrient (phosphorus) trading between point and nonpoint sources.

Restoration techniques at this site included bank reshaping and biostabilization using native vegetation, root wad revetments, and riprap. Kieser & Associates assisted the City of Kalamazoo by providing environmental consulting services such as MDEQ floodplain permitting, site design, contractor/project coordination and construction oversight.

As an outcome of this streambank stabilization project, and the other Kalamazoo demonstration sites, all restoration efforts were formally used by the state of Michigan and K&A to develop the first statewide water quality trading rules in the U.S. These rules substantially served as the basis for EPA's 2003 Federal Trading Policy.

Project Benefits Included:

- Streambank stabilization
- Native riparian buffer vegetation
- Riprap and root wad revetment toe protection measures
- Use of photodegradable erosion controls
- Reduction of 103 lbs total phosphorus/yr



Contact:

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Project Costs:
\$16,350

Project Duration:
1999

Project Partners Included:

- City of Kalamazoo
- U.S. Environmental Protection Agency
- Michigan Department of Environmental Quality
- The Forum of Greater Kalamazoo
- Kalamazoo Conservation District
- Kalamazoo County NRCS / Potawatomi RC&D
- Taplin Environmental Contracting
- Kieser & Associates, LLC