



# Clean Michigan Initiative Clean Water Fund

Bark River Township  
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CMI Tracking #2001-0010

## Bark River Township Wastewater System

June 2008 through November 2009

Bark River Township, located in Delta County, was composed entirely of private septic tanks and drain fields for treatment and disposal of domestic wastewater. Because of the poorly drained soils, shallow depth to bedrock and high groundwater table, many of the existing septic tanks were not properly treating domestic wastewater prior to discharge to the ground. The Michigan Department of Public Health performed a groundwater contamination survey in 1981 documenting contamination of wells in the project area. In some cases, the land could not support a traditional drain field due to limited site conditions, such as shallow depth to bedrock combined with high density of groundwater wells used for drinking water supplies. As a result of this project, the Township collects and conveys wastewater to a common point and pumps it to the Hannahville Indian Community Wastewater Treatment Plant. This project improved local water quality, improved quality of life, and maintains acceptable operation costs.



**Grant Amount: \$1,000,000**  
**Match Funds: \$3,640,734**

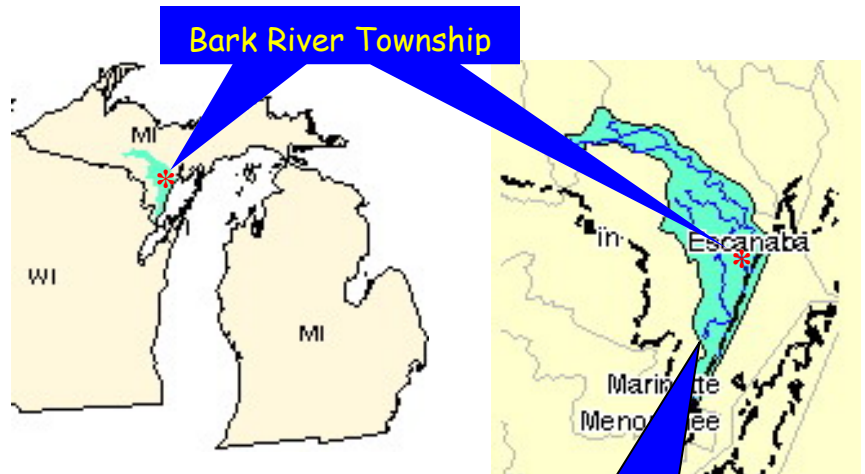
**Total Amount: \$4,640,734**

### Best Management Practices:

- Division A: 18,500' of 8" gravity sewer, 5,100' of 6" gravity service lateral, 10,000' of 6" force main, 1 submersible pump station, 9 grinder pump stations, 1 control and chemical feed building, 1 pad mounted and 1 trailer mounted generator.
- Division B: 15,000' of 6" sanitary lateral; and pumping and backfilling of approximately 160 septic tanks.

### Annual Load Reductions:

- 1.0 ton of sediment
- 432 pounds of phosphorus
- 1,624 pounds of nitrogen



### Ford River Watershed

### Partners Involved:

- Michigan Department of Environmental Quality - Clean Michigan Initiative
- U.S. Department of Agriculture-Rural Development
- Bark River Township
- Hannahville Indian Community
- Wilcox Professional Services, LLC, Escanaba, MI
- PTS Contractors, Green Bay, WI
- U.P. Environmental Services, Bark River, MI





The project involved excavation and backfilling while installing new sanitary service laterals on private property between the residences and the new wastewater collection system.



Following completion of the wastewater collection system and private sanitary laterals, the surfaces were restored appropriately.



Over 160 existing septic tanks were removed as part of the CMI project.



Upon removal of the existing septic tanks, the house plumbing was connected to the new wastewater collection system. Cleanouts were provided at the appropriate locations as shown in this photograph.