



Michigan's
Nonpoint Source
Program

**Clean Michigan Initiative
Nonpoint Source Grant**

Tracking code: 2017-0028



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West Grand Traverse Bay Protection Project III

Sept 15th, 2017 - Dec 31st, 2018

This project made progress on the top three goals of the of the Grand Traverse Bay Watershed Protection Plan: 1) Protect the integrity of aquatic and terrestrial ecosystems, 2) Protect and improve the quality of water resources within Grand Traverse Bay and its watershed and 3) Establish and promote land and water management practices that conserve and protect the natural resources of the watershed. The two permanent conservation easements established under this grant protect 100 acres. Permanent protection of these high priority land protection parcels prevents over 8.7 tons of sediment, 380 lbs. of nitrogen and 36 lbs. of phosphorus from loading into West Bay Grand Traverse Bay every year by preventing poor land management practices or conversion of the land under conservation easement to residential use. In addition, this project permanently protected over 1.8 miles of shoreline including 1,040 feet of natural shoreline along Bass Lake, 3,215 lineal feet including both banks of Belangers and Brewery Creeks (DNR designated Type 1 Trout streams), and 1,100 lineal feet including both banks of an unnamed first order tributary flowing into Cedar Lake.

Grant Amount: \$452,900

Match Funds: \$384,700

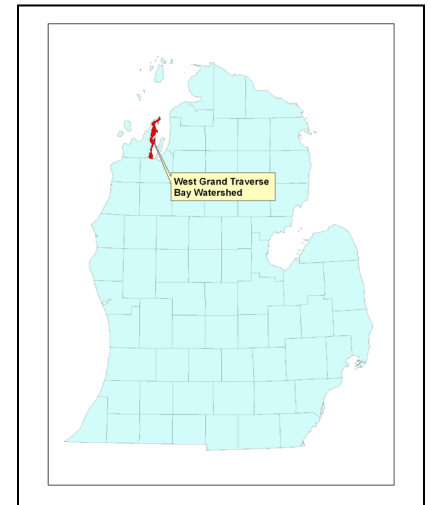
Total Amount: \$837,600

Best Management Practices:

- 2 Permanent Conservation Easements totaling 100 acres

Annual Load Reductions:

- 6.7 tons of sediment
- 292 pounds of nitrogen
- 27 pounds of phosphorus



Kalchik Permanent Conservation Easement: Protects over 1,040 feet of Bass Lake shoreline with 17 acres of riparian wetlands including leatherleaf, emergent, submergent and rich conifer wetland communities.



Kalchik Permanent Conservation Easement: Protects over 1,015 feet along both banks of Belangers Creek.



Swan Permanent Conservation Easement: Protects over 2,200 feet along both banks of Brewery Creek, which eventually flows directly into West Grand Traverse Bay.



Swan Permanent Conservation Easement: Protects over 10 acres of hydrologically active wetlands that give rise to multiple unnamed groundwater streams with over 1,100 feet of unnamed stream channels flowing off the property toward Cedar Lake and eventually West Grand Traverse Bay.