

# LITTLE TRAVERSE BAY Stormwater Management Initiative



For more information about these projects, visit [www.watershedcouncil.org](http://www.watershedcouncil.org) or call 231.347.1181



## Stormwater Wetland at North Central Michigan College

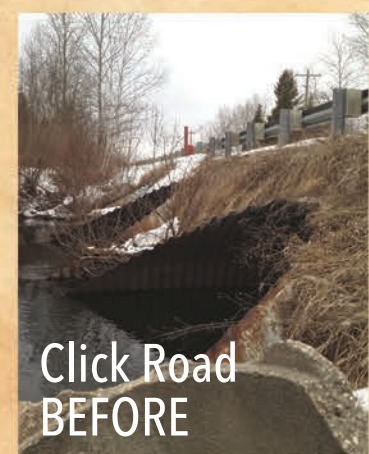
**COMPLETED:** Summer 2013

The new and improved stormwater wetland receives and cleans runoff from the entire campus through a series of sediment forebays, a stone weir and an open water wetland. This replaced an ineffective stormwater pond that was full of sediment and cattails.

Project Engineers: Northwest Design Group  
Construction/Installation: Super M Excavating and Louis A. Hoffman Nursery  
Project Partner: North Central Michigan College Natural Areas Committee

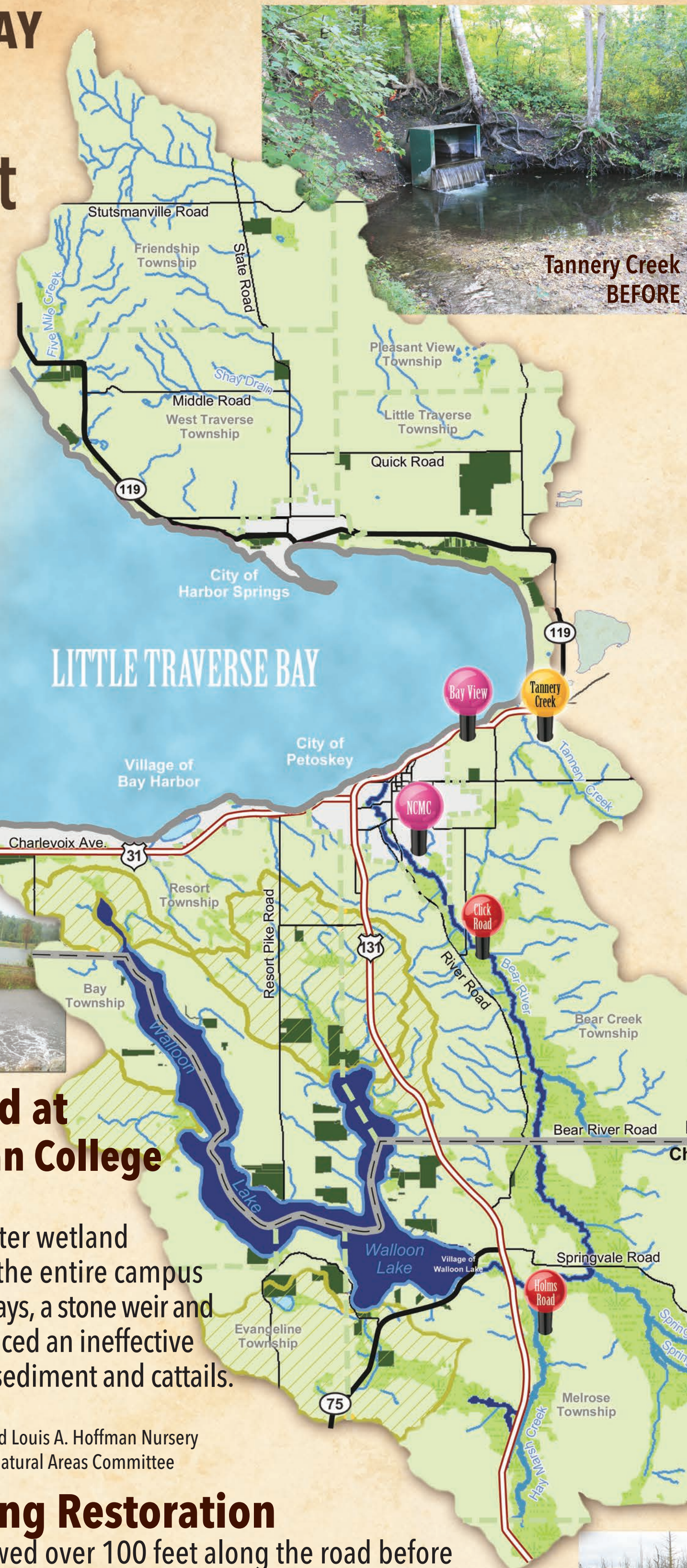
## Road-Stream Crossing Restoration

At Click Road, the Bear River flowed over 100 feet along the road before it made a 90 degree turn to pass through three large deteriorating culverts. A timber bridge and streambank stabilization corrected these issues. At Holms Road, Hay Marsh Creek flowed through an undersized culvert and the roadbed was severely deteriorating. An elliptical culvert was installed and the streambanks were stabilized.



**CLICK ROAD**  
Project Engineers: KPM Engineering  
Construction: Emmet County Road Commission  
Bridge Supplier: Krenn Timber Bridge

**HOLMS ROAD**  
Project Engineers: NDG  
Construction: Harbor Springs Excavating and Charlevoix County Road Commission



## Lower Tannery Creek Restoration Project

**Expected Completion:** November 2013

This project includes removing the undersized culvert that passes under the Little Traverse Wheelway with a timber bridge to improve stream hydrology and habitat, and help protect water quality of the Bay.

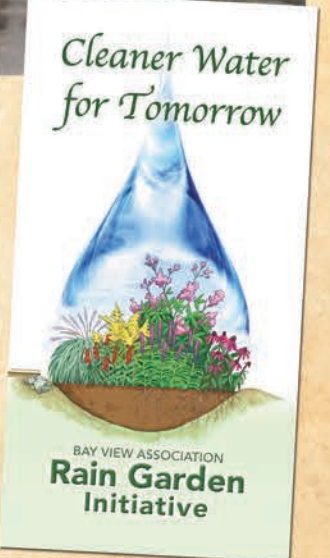
Project Engineers: Northwest Design Group  
Construction: Team Elmer's  
Project Partners: Top of Michigan Trails Council  
Michigan Department of Natural Resources  
Mr. Robert Koffman

## Bay View Association Rain Garden Initiative

**Expected Completion:** Autumn 2014

The installation of 18 rain gardens throughout the community will help treat polluted stormwater runoff before it enters Little Traverse Bay.

Installations by: North By Nature Ecological Landscapes  
Project Partner: Bay View Association



**Legend**

- Little Traverse Bay Watershed
- Lakes
- Streams
- Wetlands
- US Highway
- Michigan Roads
- Major Roads
- Urban Areas
- Counties
- Townships
- Nature Preserves

**Projects**

- Lower Tannery Creek Restoration
- Stormwater Management
- Road/Stream Crossing Improvement

Funding provided by a grant from:



Additional funding provided by:

**Tannery Creek**  
US Fish and Wildlife Service  
Michigan Department of Natural Resources  
Petoskey-Harbor Springs Area Community Foundation

**Click Road**  
Emmet County Road Commission  
Little Traverse Bay Bands of Odawa Indians  
Baiardi Foundation

**Bay View Association**  
Petoskey-Harbor Springs Area Community Foundation