



**Grand Traverse Bay Watershed Implementation Project - Phase II**  
January 2006 through June 2008

The Grand Traverse Bay watershed, located in northwest Michigan's Lower Peninsula and draining approximately 976 square miles of land, is one of the premier tourist and outdoor recreation regions in the State of Michigan. Stormwater inputs are a primary concern throughout the watershed because of the resulting changes to hydrologic flow and potential to contribute to excessive sedimentation, nutrients, pathogens, and toxins to the bay and its tributaries. In fact, two locations on East Grand Traverse Bay are on the state impaired waters list and are said to be in "non-attainment" due to excessive amounts of pathogens, most likely caused by heavy stormwater inputs and flushing during rain events and decreased nearshore mixing during summer months. The goals of this project were to: 1) protect the Grand Traverse Bay watershed (specifically East Grand Traverse Bay) from further water quality degradation due to excessive stormwater inputs and pathogens by installing stormwater BMPs at three sites on Grand Traverse Bay and implementing a targeted stormwater educational campaign in neighborhoods; and 2) to implement a general public information and education campaign in the Grand Traverse Bay watershed to strengthen efforts to reduce stormwater impacts as well as impacts from other pollutants in order to restore the ecosystem.

**Best Management Practices:**

- Installed 3 oil/grit separators at Traverse City locations

**Annual Load Reductions:**

- 5.2 tons sediment
- 9 pounds phosphorus, 74 pounds nitrogen

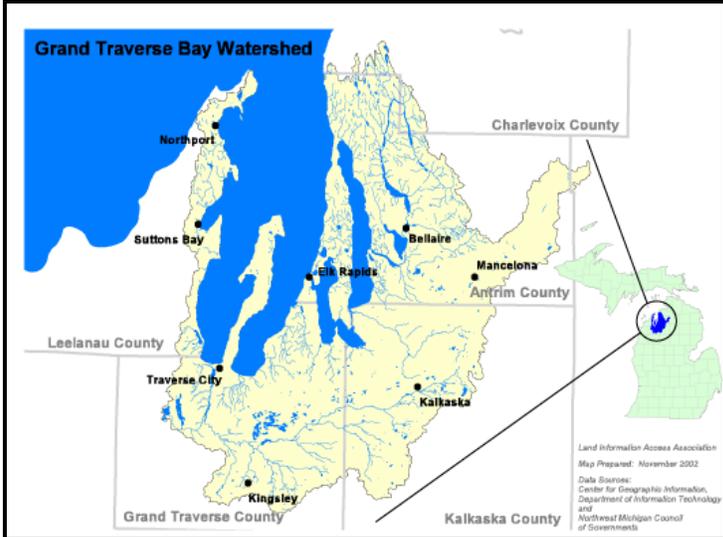


<b>Grant Amount:</b>	<b>\$198,000</b>
<b>Match Funds:</b>	<b>\$141,100</b>
<b>Total Amount:</b>	<b>\$339,100</b>

**I&E Activities:**



- Implemented of stormwater education campaign in neighborhoods draining to East Grand Traverse Bay. Activities included the following:
  - Conducted individual, one-on-one assessments on property to determine what types of low impact design stormwater BMPs could be utilized.
  - Applied approximately 115 stormdrain markers/decals on catch basins in neighborhoods.
- Conducted two Baykeeper Boat Tours (Summer 2006 and 2007) around Grand Traverse Bay
- Developed 'Healthy Beaches' information card
- Produced two editions of Freshwater Focus insert to Traverse City Record Eagle newspaper
- TWC Newsletter (3 editions)
- Produced Low Impact Development Introduction Guidebook for Grand Traverse Region
- Produced 12 water-related radio spots

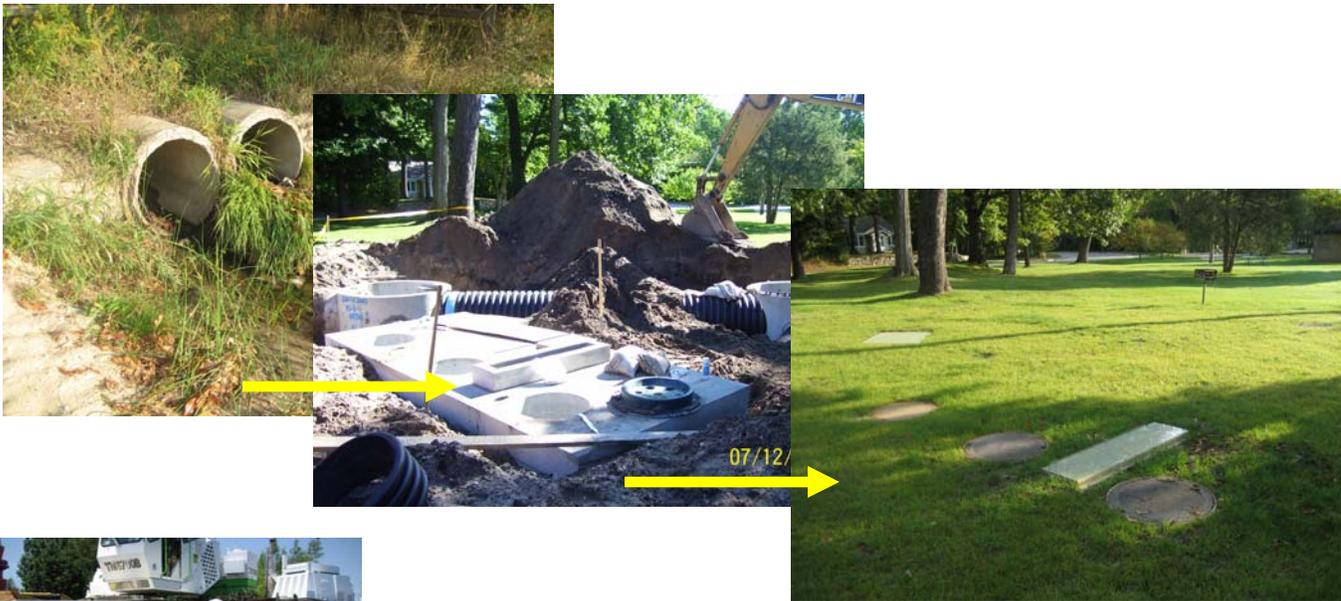


**Partners Involved:**

City of Traverse City	Traverse City Record Eagle
Lindy Lazar Design	Victor Nelheibel Architecture
Garfield Township	Lawton Gallagher Group
Environmental Consulting & Technology, Inc.	



Installation of oil/grit separators at the end of 8<sup>th</sup> Street (above) and East Bay Park (below) - both on East Grand Traverse Bay.



Downstream Defender (oil/grit separator) unit installed at Holiday Inn (left) location on West Grand Traverse Bay. Debris contained in unit after large rain storm (below).





Baykeeper Tug Boat stop in Northport, 2006



Baykeeper Tug Boat stop in Elk Rapids, 2007

