



Michigan's
Nonpoint Source
Program

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**Mona Lake
Watershed Project
Muskegon, MI**

Mona Lake Watershed Management Plan Project

October 1st, 2004 through December 31st, 2006

Tracking Code: 2004-0116

The Mona Lake Watershed Council was awarded a \$167,571 Clean Water Act section 604(b) planning grant (#2004-0116) in October 2004 to develop a watershed management plan for the Mona Lake Watershed. Several small-scale demonstration projects were included in the project to address watershed impairment issues while incorporating information and education (I&E) activities. The Mona Lake watershed is a mix of rural-residential and agriculture use in the upper watershed, rural-residential and industry in the middle watershed, and commercial and urban-residential in the lower watershed. The primary impairments to the watershed are a result of sedimentation, high nutrients, stormwater runoff, pathogens, and contaminated sediments. Through the I&E incorporated into our demonstration projects, we are increasing awareness of the watershed impairments and engaging people to do more in their community and on their own properties to reduce nonpoint source pollution.

Grant Amount: \$ 167,571.00
Match Funds: \$ 53,832.00
Total Amount: \$ 221,403.00

Project Highlights:

- Installed two rain gardens and a connecting dry prairie garden in front of the highly visible Mona Shores High School.
- For the Second Annual Mona Lake Watershed Day, planted dune grass to reduce erosion and a wildflower buffer area between the park roadway and the lake's edge for stormwater filtration.
- Held "A Day in the Park" at Johnny O. Harris Park where students planted trees/shrubs/native grass & wildflowers for nutrient uptake, stormwater filtration, and erosion reduction adjacent to Little Black Creek.
- Installed reinforced vegetative filter swale to slow and treat stormwater runoff from two acres of parking area at the Boat Club Restaurant.

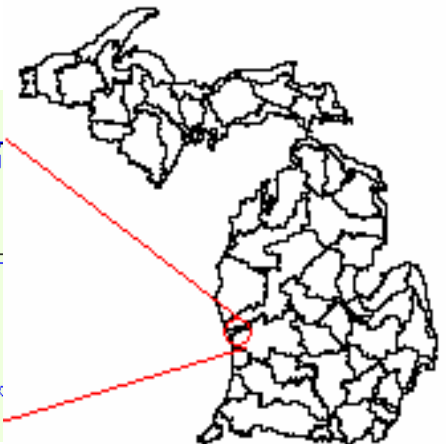
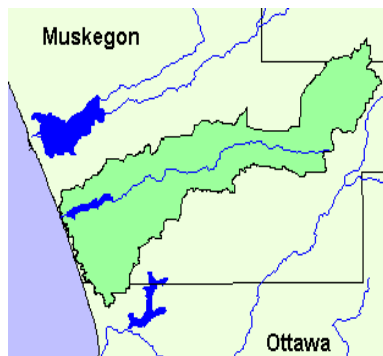


Photo Legend (Mona Shores High School, April 14-15, 2006):

Left to right, top to bottom: Outline of the east rain garden; refilling the excavated west rain garden with compost; students planting native plants in designed plots of west rain garden; both rain gardens and the connecting dry prairie area (around trees) mulched over after planting; rain garden four months after installation; rain garden after 1" rain event - no water entering storm drain.

Mona Lake Watershed Management Plan Project

Before & After Photos

BEFORE



AFTER



Photo Legend (Mona Lake Park Demonstration Project, May 13-14, 2005):
 Before: previous lawn area; Now: native grass and wildflower garden. Before photo was taken during the Second Annual Mona Lake Watershed Day.



Photo Legend (Mona Lake Boat Club Demonstration Project, August 21-23, 2006):
 Left to right, top to bottom: Site before excavation work; seeding after rip-rap installation; supplemental plantings; completed project with silt fence upstream of plunge pool; first rain event 3 weeks after project completion; plunge pool holding and slowing water prior to draining into Mona Lake.