



Michigan's
Nonpoint Source
Program

Clean Michigan Initiative Nonpoint Source Grant

Tracking code 2008-0023



Berrien Co. Drain Commission

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Hollywood Road Storm Water Basin Wetland Demonstration Facility

August 1, 2008 through July 31, 2011

The Hollywood Drain, tributary to the St. Joseph River, is upstream of Hickory Creek, a 303(d) listed water body for habitat modifications due to channelization. An existing in-line detention basin within the Hollywood Drain provided virtually no treatment of the first flush, bank-full and small storm events and increased localized flooding problems during larger storm events. This project included conversion of the existing non-functioning basin into an ecologically balanced storm water wetland that provides peak flow control and water quality enhancements for the first flush, bank-full flood and larger storm events.



Grant Amount: \$ 315,000

Match Funds: \$ 240,000

Total Amount: \$ 555,000

Best Management Practices:

- Storm Water Wetland, with:
 - Native Submergent, Emergent and Upland Plantings
 - Inlet & Outlet Control Structures
 - Educational Signage
 - Overlook Platform



Annual Load Reductions:

- 125,846 Tons of Sediment
- 78 Pounds of Phosphorus
- 346 Pounds of Nitrogen



I&E Activities (concurrent with but outside the scope of the project):

- Stakeholder meetings to provide information and gain input for design.
- Three volunteer planting days.
- Construction of an overlook structure by a local Eagle Scout Troop.
- On-site educational signage.



Partners involved:

- St. Joseph Charter Township
- Lincoln Charter Township
- Royalton Township
- St. Joseph Public Schools
- Spicer Group
- ECT, Inc.
- JFNew
- Pajay, Inc.
- Quantum Construction, Co.
- Woodhull Construction, Inc.





Hollywood Basin Before Construction:
Existing detention basin provided virtually no storm water treatment and limited peak flow control.



Hollywood Basin During Construction:
Volunteers plant native wetland vegetation species at one of three planting days.



Hollywood Basin After Construction: The storm water wetland provides for reduction in sediment and nutrients and peak flow control for small and large storm events.



Hollywood Basin After Construction: The wetland basin provides valuable habitat in the form of food, water and shelter for a variety of wildlife species, including Killdeer that laid these eggs.