262/284-8270	Agenda	Minutes	Newsletter	
262/284-8270	Evolution of the Partnership		Organization Structure	Our Mission To form an alliance of concerned citizens, landowners, and public and private organizations to protect and improve the water quality and natural habitats in the Ulao Creek Watershed.
	Goals		Past Projects	
ULAO	Importance of Ulao Creek		Partners	
CREEK PARTNERSHIP	Planning & Resource Management		Stormwater Management Plan	
	Membership		What's New	

ULAO

WHISTLER

A Semiannual Newsletter of the Ulao Creek Partnership, Inc.

Back to Newsletter Index STORMWATER MANAGEMENT

By Scott Stanley - City of Mequon

Runoff Management

When water from rainfall or melting snow flows across the landscape, it washes soil particles, bacteria, pesticides, fertilizer, pet waste, oil, and other toxic materials into our lakes, streams, and groundwater. This is called "nonpoint source pollution" or "polluted runoff." Nonpoint source pollution comes from a diverse number of activities in our daily lives including fertilizing lawns and farm fields, driving and maintaining our cars, constructing buildings and roads, plowing our fields for crops, and maintaining our roads in the winter. Urban and rural nonpoint pollution is the leading cause of water quality problems in Wisconsin, degrading or threatening an estimated 40 percent of the streams, 90 percent of the inland lakes, many of the Great Lakes harbors and coastal waters, many wetland areas, and substantial groundwater resources in Wisconsin.* Polluted runoff contributes to habitat destruction, fish kills, reduction in drinking water quality, harbor and stream siltation, and a decline in recreational use of lakes.

Municipal Stormwater Management

Runoff from municipal areas contains a mixture of pollutants from parking lots, streets, rooftops, lawns, and other areas. These areas contribute heavy metals, pesticides, sediment, nutrients, bacteria, and oxygen-demanding organic waste. Although municipal storm sewer systems are efficient at controlling water volume to avoid flooding, they also transport polluted runoff directly into nearby lakes, rivers, and streams without the benefit of wastewater treatment or filtration by soil or vegetation.

To meet the requirements of the federal Clean Water Act, the Wisconsin DNR developed the Wisconsin Pollutant Discharge Elimination System (WPDES) Stormwater Discharge Permit Program that is regulated under the authority of Chapter NR 216 of the Wisconsin Administrative Code. As part of the EPA National Pollutant

Discharge Elimination System, the WPDES Stormwater Discharge Permit Program regulates discharge of stormwater in Wisconsin from construction sites, industrial facilities, and selected municipalities.

Who needs a stormwater permit?

WPDES Stormwater Permits are required for discharges from the following three areas:

- selected industrial facilities
- construction sites that disturb a certain amount of acreage
- selected municipalities, i.e. Mequon

Permitted Municipalities

Per Wisconsin Administrative Code NR 216, four types of municipalities must obtain a Municipal Stormwater Permit:

Municipalities with Population of 100,000 or More

Municipalities with a Separate Storm Sewer System serving a population of 100,000 people or more must obtain a WPDES Municipal Stormwater Permit.

Municipalities in the Great Lakes Areas of Concern

There are five Great Lakes Areas of Concern in Wisconsin. These are areas on the Lake Superior and Lake Michigan coasts that have persistent runoff-related water quality problems including Green Bay, Allouez, Ashwaubenon, DePere, Marinette, Sheboygan, and Superior. See the EPA Great Lakes Areas of Concern Website for more details (www.epa.gov/grtlakes/aoc/).

Municipalities in a Priority Watershed with a Population of 50,000 or More

In certain Priority Watersheds, stormwater runoff is a primary source of pollutants. Thus, controlling nonpoint pollution is especially important in these areas to help improve water quality. Within the state's Priority Lake and Watershed Projects, Eau Claire, Racine, West Allis, and Waukesha have populations over 50,000.

Significant Contributors of Contaminated Stormwater

The Department retains the authority to designate a municipality as a significant source of pollutants. Such a municipality would then be required to obtain a Municipal Stormwater Permit.

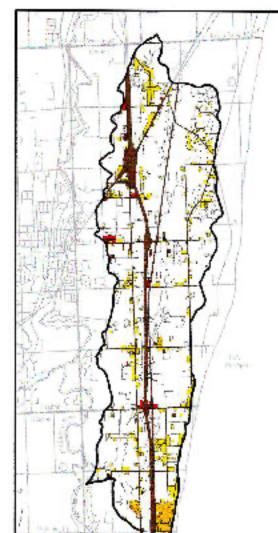
The following municipalities each have a current municipal storm water permit as of May 1, 2001. About 80 additional municipalities are in various stages of the municipal storm water permit process (e.g. designation, pre-application, permit drafting, etc.).

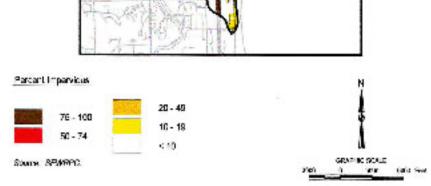
- Bayside ¹
- Brown Deer ¹
- Cudahy
- Fox Point ¹
- Glendale ¹
- Madison ³
- Mequon²
- Milwaukee
- Oak Creek
- River Hills
- St. Francis
- Sheboygan
- Sheboygan Falls
- Shorewood ¹
- South Milwaukee
- SE WI Prof. Baseball Park
- Thiensville ²
- U. W. Madison ³
- Whitefish Bay ¹
- 1 = North Shore Group Permit
 2 = Mequon/Thiensville Group Permit
 3 = City of Madison Group Permit
- * See the Nonpoint Source Program Redesign Initiative
- Report, Wisconsin DNR, December 1999.



Volunteer water quality sampling along the Ulao Creek

IMPERVIOUS AREAS WITHIN THE ULAO CRELK DRAINAGE AREA: 1995





Impervious areas within the Ulao Creek watershed (1995 SEWRPC land use delineation). Greater than 10% impervious surface in a watershed has been proven to significantly impact water quality and contribute to stormwater runoff.

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