

Swift Run at Shetland Drive

Fact Sheet

Site History

Some early maps shows this as Whitmore's Creek, named after several early settlers named Whitmore.

The Swift Run watershed has an impervious surface problem, although it is not as bad as other creeks in the Ann Arbor area. When a stream's watershed goes above 10% impervious, we start to see sharp declines in macroinvertebrate diversity. This is because instead of water being stored in the soil or held by vegetation, the water runs immediately into the stream and causes quick changes in stream flow. Many types of macroinvertebrates are not able to dwell in a stream that has this problem.



Photo credit: HRWC

Watershed Information

Area of land draining to this site: 5 mi²

Local government: Washtenaw Co, City of Ann Arbor

Watershed land use: 27% Agriculture, 51% Urban,
4% Forest, 11% Open, 7% Wetland.

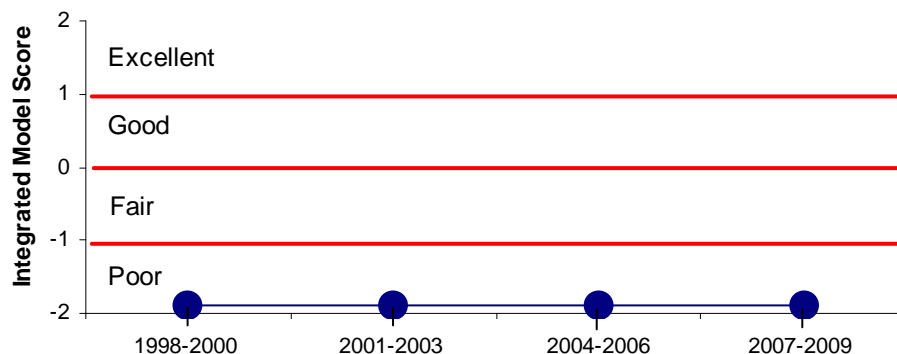
23% of this land is impervious surface



Google 2009

Site Rating: Poor

Each site is rated as one of the following categories (going from worst to best): poor, fair, good, and excellent. This rating comes from an integrative model that is based on the last 3 years of insect data, the most recent habitat data, stream temperature, and stream size.



Insect Community

First Monitored: 9/19/92

Times monitored: 18

From 2007-2009, the average number of insect families found at this location are:

Total Insect Families: 6.7

Sensitive Insect Families (quickly affected by pollution): 0

Mayfly, Stonefly, and Caddisfly Families: 0.3

Stonefly Families (Winter Stonefly Search): 0

Insects found in sampling events from 2007-2009:

Gerridae- water strider

Notonectidae- backswimmer

Veliidae- short-legged strider

Hydropsychidae- net-spinner caddisfly

Aeshnidae- darner dragonfly

Calopterygidae- broad-winged damselfly

Coenagrionidae- narrow-winged damselfly

Elmidae- riffle beetle

Collembola- springtail

Chironomidae- midge

Simuliidae- black fly larva

Tipulidae- crane fly larva

*Sensitive Family

Stream Habitat

Water Temperature (Summer 2001):

Average weekly minimum: 61 °F

Average weekly maximum: 75 °F

Conductivity: 2548 μS

This is a 3 year average of samples taken 1-3 times per year. 800 μS or lower is considered normal.

Measuring and Mapping Program

Times monitored: 3

Measurements and Observations from most recent event held on 7/29/06:

Avg. Depth (ft): 0.6

Max Depth (ft): 1.3

Avg. Width (ft): 6.9

Bank Height (ft): 2.3

% Fine Substrate: 51

% Coarse Substrate: 49

% Riffle Embeddedness: 25-50

% Banks Bare: 35

Bad Appearance or Odor: No

Overall habitat score (100 max): 61