

FIBI041-R3

Shabakunk Creek

End of 4th Street

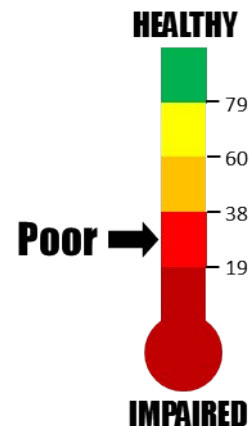
Municipality: Ewing Twp

County: Mercer

Drainage Area (sq miles): 6.4

Sample Date: 07/26/2012

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	7.12
Metric 2-%Cold Non-tolerant Coolwater	27.18
Metric 3-%Generalist Richness	13.24
Metric 4-Tolerance Index	56.51
Metric 5-%Lithophilic Richness	20.70
Metric 6-%Cyprinidae	4.35
Metric 7-%Dominant 3 Taxa	71.39
Metric 8-%Benthic Insectivore Richness	18.92

Field Chemistry

Air Temp (°C)	29.6
Water Temperature (°C)	22.15
Dissolved Oxygen (mg/L)	5.54
% Saturation	64
pH	6.66
Conductivity (µS/cm)	346

Northern Fish IBI Score (0-100): 27.42

IBI Rating: Poor

High Gradient Habitat Score (0-200): 106

Habitat Rating: Marginal

Summary: There are numerous habitat and water quality impacts at FIBI041 including relatively low dissolved oxygen (64% saturation), debris and garbage in the stream, fine sediment loading, lack of riffle habitat due to channelization, and severe bank erosion. Fish IBI and habitat scores have continued to decline at this Shabakunk Creek site. The trophic web has changed to fewer specialized feeders with a subsequent large increase in generalists, while the number of fish requiring clean substrate to spawn (Lithophilic sp.) has declined.

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Common Name	Scientific Name	Abundance
Tessellated Darter	<i>Etheostoma olmstedii</i>	102
Green Sunfish	<i>Lepomis cyanellus</i>	52
Creek Chub	<i>Semotilus atromaculatus</i>	48
Redbreast Sunfish	<i>Lepomis auritus</i>	44
Bluegill	<i>Lepomis macrochirus</i>	34
White Sucker	<i>Catostomus commersoni</i>	34
Pumpkinseed	<i>Lepomis gibbosus</i>	30
Spottail Shiner	<i>Notropis hudsonius</i>	23
Brown Bullhead	<i>Ameiurus nebulosus</i>	22
American Eel	<i>Anguilla rostrata</i>	13
Blacknose Dace	<i>Rhinichthys atratulus</i>	9
Banded Killifish	<i>Fundulus diaphanus</i>	7
Golden Shiner	<i>Notemigonus crysoleucas</i>	6
Largemouth Bass	<i>Micropterus salmoides</i>	5