

FIBI048-R4r Buckhorn Creek

Reeder Road

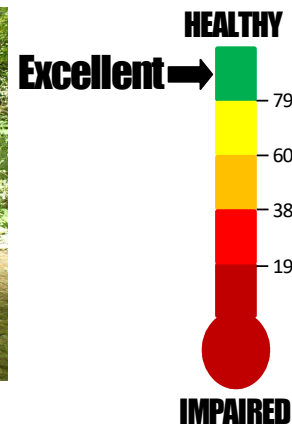
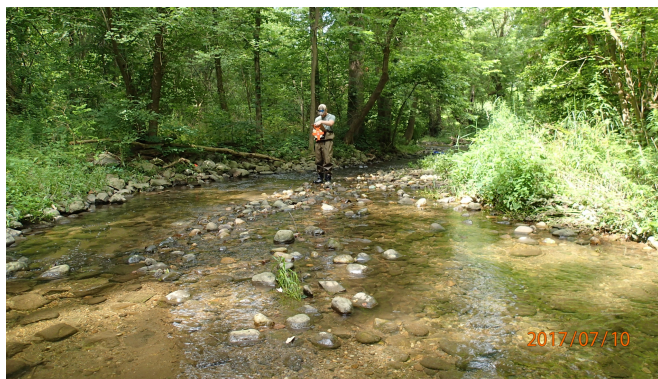
Municipality: Harmony Twp

County: Warren

Drainage Area (sq miles): 8

Sample Date: 7/10/2017

Site Type: Sentinel



IBI Metrics

Metric 1-%Rheophilic Richness	57.15
Metric 2-%Cold Non-tolerant Coolwater	92.65
Metric 3-%Generalist Richness	76.58
Metric 4-Tolerance Index	81.98
Metric 5-%Lithophilic Richness	57.95
Metric 6-%Cyprinidae	86.71
Metric 7-%Dominant 3 Taxa	100.00
Metric 8-%Benthic Insectivore Richness	100.00

Field Chemistry

Air Temp (°C)	19.6
Water Temperature (°C)	17.94
Dissolved Oxygen (mg/L)	9.4
% Saturation	98.6
pH	7.64
Conductivity (µS/cm)	232.9
Total Kjeldahl (mg/L)	0.13
Total Phosphorus (mg/L)	0.03
Nitrate/Nitrite (mg/L)	0.94

Northern Fish IBI Score (0-100): 81.63

IBI Rating: Excellent

High Gradient Habitat Score (0-200): 149

Habitat Rating: Suboptimal

Summary: The IBI is not designed to monitor any one particular species, such as trout, so despite the high score and rating this sampling event was just the second time since 2002 in which wild brown trout were not collected (see Table below). Wild rainbow trout have not been collected at this site since 2013 and young-of-the-year brown trout have only been collected at this FW2-TPC1 stream in two out of the seven years of monitoring. The trout production status of this stream should be re-evaluated.

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Buckhorn Creek

Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	463
Tessellated Darter	<i>Etheostoma olmstedi</i>	62
White Sucker	<i>Catostomus commersoni</i>	27
Longnose Dace	<i>Rhinichthys cataractae</i>	27
American Eel	<i>Anguilla rostrata</i>	26
Creek Chub	<i>Semotilus atromaculatus</i>	19
Margined Madtom	<i>Noturus insignis</i>	6
Sea Lamprey	<i>Petromyzon marinus</i>	5
Bluegill	<i>Lepomis macrochirus</i>	2
Northern Hogsucker	<i>Hypentelium nigricans</i>	2

Year	Species		
	Wild Brown Trout	Wild Rainbow Trout	Native Brook Trout
2007	20*	3	0
2011	3	1	1
2013	4	1	0
2014	4	0	0
2015	4*	0	0
2017	0	0	0

*Denotes young-of-the-year trout present