

FIBI075-R4

Pequannock River

State Route 23

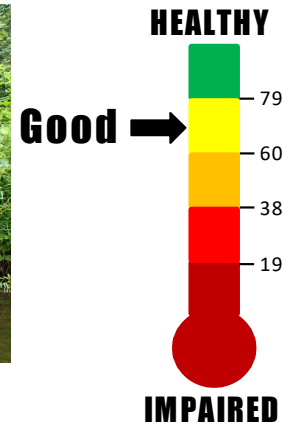
Municipality: Jefferson Twp

County: Morris

Drainage Area (sq miles): 19

Sample Date: 7 /5 /2018

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	33.14
Metric 2-%Cold Non-tolerant Coolwater	91.62
Metric 3-%Generalist Richness	56.43
Metric 4-Tolerance Index	75.45
Metric 5-%Lithophilic Richness	43.47
Metric 6-%Cyprinidae	91.36
Metric 7-%Dominant 3 Taxa	92.30
Metric 8-%Benthic Insectivore Richness	79.47

Field Chemistry

Air Temp (°C)	27.6
Water Temperature (°C)	23.22
Dissolved Oxygen (mg/L)	8.5
% Saturation	100.9
pH	7.14
Conductivity (µS/cm)	232.6
Total Kjeldahl (mg/L)	0.28
Total Phosphorus (mg/L)	0.04
Nitrate/Nitrite (mg/L)	0.17

Northern Fish IBI Score (0-100): 70.40

IBI Rating: Good

High Gradient Habitat Score (0-200): 155

Habitat Rating: Suboptimal

Summary: The 2018 IBI score represents the highest score for FIBI075 in the four rounds of monitoring when scores are compared using the new IBI metrics.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	341
White Sucker	<i>Catostomus commersonii</i>	84
Common Shiner	<i>Luxilus cornutus</i>	71
Tessellated Darter	<i>Etheostoma olmstedi</i>	55
Creek Chub	<i>Semotilus atromaculatus</i>	35
Redbreast Sunfish	<i>Lepomis auritus</i>	19
Eastern Mudminnow	<i>Umbra pygmaea</i>	11
Chain Pickerel	<i>Esox niger</i>	3
Creek Chubsucker	<i>Erimyzon oblongus</i>	1
Margined Madtom	<i>Noturus insignis</i>	1