

# FIBI077-R4r

## Pequannock River

Paterson-Hamburg Turnpike

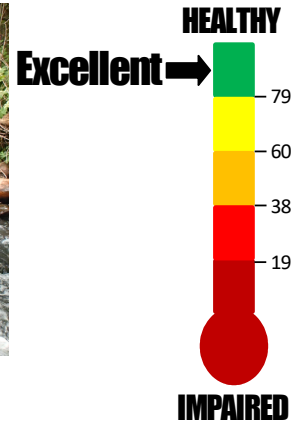
Municipality: Riverdale Twp

County: Morris

Drainage Area (sq miles): 83

Sample Date: 9 /10/2019

Site Type: Sentinel



### IBI Metrics

Metric 1-%Rheophilic Richness	73.61
Metric 2-%Cold Non-tolerant Coolwater	96.89
Metric 3-%Generalist Richness	79.68
Metric 4-Tolerance Index	91.11
Metric 5-%Lithophilic Richness	78.02
Metric 6-%Cyprinidae	100.00
Metric 7-%Dominant 3 Taxa	90.24
Metric 8-%Benthic Insectivore Richness	40.75

### Field Chemistry

Air Temp (°C)	20
Water Temperature (°C)	17.91
Dissolved Oxygen (mg/L)	9.5
% Saturation	98.7
pH	7.33
Conductivity (µS/cm)	395.7
Total Kjeldahl (mg/L)	0.18
Total Phosphorus (mg/L)	0.02
Nitrate/Nitrite (mg/L)	0.83

*Northern Fish IBI Score (0-100): 81.29*

*IBI Rating: Excellent*

*High Gradient Habitat Score (0-200): 149*

*Habitat Rating: Suboptimal*

**Summary:** Scores and ratings have been consistent at this sentinel site on the Pequannock River despite not collecting young-of-the-year brown trout from this trout production stream in 2019.

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## **Pequannock River**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Blacknose Dace	<i>Rhinichthys atratulus</i>	92
Fallfish	<i>Semotilus corporalis</i>	34
Cutlips Minnow	<i>Exoglossum maxillingua</i>	33
Creek Chub	<i>Semotilus atromaculatus</i>	31
Pumpkinseed	<i>Lepomis gibbosus</i>	27
Largemouth Bass	<i>Micropterus salmoides</i>	14
Tessellated Darter	<i>Etheostoma olmstedi</i>	13
Common Shiner	<i>Luxilus cornutus</i>	8
Brown Trout	<i>Salmo trutta</i>	7
White Sucker	<i>Catostomus commersonii</i>	7
Smallmouth Bass	<i>Micropterus dolomieu</i>	6
Yellow Perch	<i>Perca flavescens</i>	6
Green Sunfish	<i>Lepomis cyanellus</i>	1