

FIBI213-R3r2

Ivanhoe Brook

Millers Mill Road

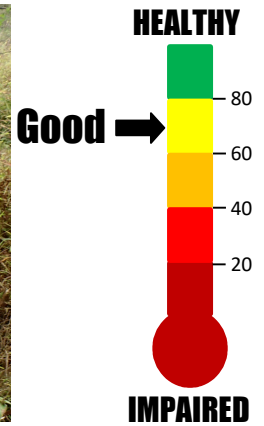
Municipality: Upper Freehold Twp

County: Monmouth

Drainage Area (sq miles): 4

Sample Date: 9/30/2019

Site Type: Sentinel



IBI Metrics

Metric 1 - Native Sp.	99.25
Metric 2 - Benthic Sp	73.48
Metric 3 - Intolerant Sp.	12.26
Metric 4 - %Tolerant Sp.	85.15
Metric 5-%Insectivore Sp.	73.53
Metric 6 -%Piscivorous Sp.	5.24
Metric 7 - Abundance-tolerance	51.84
Metric 8-% DELTs	100.00

Field Chemistry

Air Temp (°C)	17.8
Water Temperature (°C)	17.180
Dissolved Oxygen (mg/L)	8.05
% Saturation	81.7
pH	7.26
Conductivity (µS/cm)	172.4
Total Kjeldahl (mg/L)	0.14
Nitrate/Nitrite (mg/L)	0.06
Total Phosphorus (mg/L)	0.07

Southern Fish IBI Score (0-100): 62.59

IBI Rating: Good

Low Gradient Habitat Score (0-200): 141

Habitat Rating: Suboptimal

Summary: The 2019 IBI results represent the lowest IBI score for FIBI213 since this site was first sampled in 2013. The Intolerant Sp. and %Piscivore Sp. metrics both exhibited significant declines in this latest sampling event.

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Common Name	Scientific Name	Abundance
Tessellated Darter	<i>Etheostoma olmstedii</i>	42
Fallfish	<i>Semotilus corporalis</i>	40
Pumpkinseed	<i>Lepomis gibbosus</i>	25
Common Shiner	<i>Luxilus cornutus</i>	15
Bluegill	<i>Lepomis macrochirus</i>	10
Brown Bullhead	<i>Ameiurus nebulosus</i>	9
American Eel	<i>Anguilla rostrata</i>	8
Satinfin Shiner	<i>Cyprinella analostana</i>	8
White Sucker	<i>Catostomus commersonii</i>	7
Creek Chubsucker	<i>Erimyzon oblongus</i>	4
Warmouth	<i>Lepomis gulosus</i>	4
Largemouth Bass	<i>Micropterus salmoides</i>	2
Eastern Mudminnow	<i>Umbra pygmaea</i>	2
Chain Pickerel	<i>Esox niger</i>	1
Redbreast Sunfish	<i>Lepomis auritus</i>	1
Golden Shiner	<i>Notemigonus crysoleucas</i>	1
Pirate Perch	<i>Aphredoderus sayanus</i>	1