

FIBI092-R4

Holland Brook

Hillcrest Road

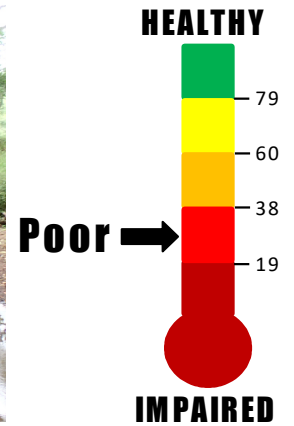
Municipality: Readington Twp

County: Hunterdon

Drainage Area (sq miles): 8

Sample Date: 9 /11/2019

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	11.92
Metric 2-%Cold Non-tolerant Coolwater	23.23
Metric 3-%Generalist Richness	48.68
Metric 4-Tolerance Index	67.44
Metric 5-%Lithophilic Richness	44.58
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	37.92
Metric 8-%Benthic Insectivore Richness	40.75

Field Chemistry

Air Temp (°C)	23.4
Water Temperature (°C)	19.57
Dissolved Oxygen (mg/L)	7.5
% Saturation	80
pH	7.01
Conductivity (µS/cm)	304.7
Total Kjeldahl (mg/L)	0.10
Total Phosphorus (mg/L)	0.06
Nitrate/Nitrite (mg/L)	0.51

Northern Fish IBI Score (0-100): 34.32

IBI Rating: Poor

High Gradient Habitat Score (0-200): 102

Habitat Rating: Marginal

Summary: This station received a %Cyprinidae metric score of zero, as just two minnow species were collected in 2019 compared to 7 minnow species in both rounds 2 and 3. The substrate in the stretch was covered in fine sediments, moderate periphyton growth was observed, and the flow regime was mostly flat run habitat with few riffles and pools.

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Common Name	Scientific Name	Abundance
Redbreast Sunfish	<i>Lepomis auritus</i>	69
Smallmouth Bass	<i>Micropterus dolomieu</i>	24
American Eel	<i>Anguilla rostrata</i>	17
Rock Bass	<i>Ambloplites rupestris</i>	15
Tessellated Darter	<i>Etheostoma olmstedii</i>	10
White Sucker	<i>Catostomus commersonii</i>	8
Banded Killifish	<i>Fundulus diaphanus</i>	7
Largemouth Bass	<i>Micropterus salmoides</i>	4
Bluegill	<i>Lepomis macrochirus</i>	2
Green Sunfish	<i>Lepomis cyanellus</i>	2
Oriental Weatherfish	<i>Misgurnus anguillicaudatus</i>	1
Blacknose Dace	<i>Rhinichthys atratulus</i>	1
Creek Chub	<i>Semotilus atromaculatus</i>	1