FIBI099-R4 Wallkill River

State Route 94 Municipality: Hamburg Boro County: Sussex Drainage Area (sq miles): 46 Sample Date: 8 /30/2017 Site Type: Fixed



Field Chemistry

79

60

38

- 19

IBI Metrics	
Metric 1-%Rheophilic Richness	28.02
Metric 2-%Cold Non-tolerant Coolwater	72.43
Metric 3-%Generalist Richness	82.95
Metric 4-Tolerance Index	89.63
Metric 5-%Lithophilic Richness	45.75
Metric 6-%Cyprinidae	86.95
Metric 7-%Dominant 3 Taxa	41.49
Metric 8-%Benthic Insectivore Richness	55.77

Air Temp (°C)	22
p (v)	
Water Temperature (°C)	18.11
Dissolved Oxygen (mg/L)	9.5
% Saturation	100.9
рН	8.03
Conductivity (µS/cm)	872.2
Total Kjeldahl (mg/L)	0.47
Total Phosphorus (mg/L)	0.08
Nitrate/Nitrite (mg/L)	3.67

Northern Fish IBI Score (0-100):	62.87
IBI Rating:	Good
High Gradient Habitat Score (0-200):	143
Habitat Rating:	Suboptimal

Summary: This site has not been sampled since 2009 and despite the "good" rating several stressors were identified which could be impacting the resident fish assemblage. Two rheophilic species, blacknose dace and American brook lamprey were absent from this latest sampling event which resulted in a sharp decline in the metric when compared to results from 2004 and 2009. The conductivity measurement was the second highest and the nitrate/nitrate value of 3.67 mg/l was the highest of the 52 IBI sites sampled in Round 4.

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Common Name	Scientific Name	Abundance
Longnose Dace	Rhinichthys cataractae	220
Cutlips Minnow	Exoglossum maxillingua	79
Redbreast Sunfish	Lepomis auritus	65
Pumpkinseed	Lepomis gibbosus	40
White Sucker	Catostomus commersoni	39
Tessellated Darter	Etheostoma olmstedi	37
Smallmouth Bass	Micropterus dolomieu	28
Margined Madtom	Noturus insignis	9
Common Shiner	Luxilus cornutus	6
Satinfin Shiner	Cyprinella analostana	5
Creek Chub	Semotilus atromaculatus	5
Spottail Shiner	Notropis hudsonius	4
Green Sunfish	Lepomis cyanellus	4
Banded Killifish	Fundulus diaphanus	3
Rock Bass	Ambloplites rupestris	2
Redfin Pickerel	Esox americanus americanus	2
Largemouth Bass	Micropterus salmoides	1
Yellow Bullhead	Ameiurus natalis	1
Chain Pickerel	Esox niger	1