

FIBI060-R3

Musquapsink Creek

Harrington Avenue

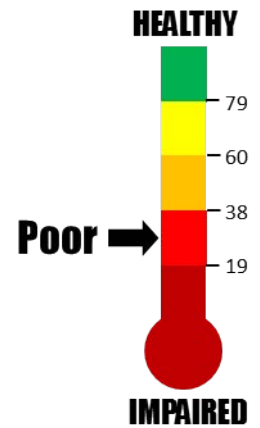
Municipality: Westwood Boro

County: Bergen

Drainage Area (sq miles): 7.1

Sample Date: 08/19/2013

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	0.00
Metric 2-%Cold Non-tolerant Coolwater	25.23
Metric 3-%Generalist Richness	28.95
Metric 4-Tolerance Index	61.71
Metric 5-%Lithophilic Richness	13.17
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	17.10
Metric 8-%Benthic Insectivore Richness	24.08

Field Chemistry

Air Temp (°C)	30
Water Temperature (°C)	20.42
Dissolved Oxygen (mg/L)	7.42
% Saturation	81.8
pH	7.27
Conductivity (µS/cm)	618.5

Northern Fish IBI Score (0-100): 21.28

IBI Rating: Poor

High Gradient Habitat Score (0-200): 89

Habitat Rating: Marginal

Summary: Large amounts of fine sediments along with decayed organic material were noted during the survey. The stream has a uniform depth profile which has resulted in a prevalence of run habitat without riffles, thus impacting rheophilic and Cyprinidae species. All natural substrate was heavily embedded with fine sediments, which can reduce the number of benthic insectivore and lithophilic taxa.

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Common Name	Scientific Name	Abundance
Redbreast Sunfish	<i>Lepomis auritus</i>	58
Tessellated Darter	<i>Etheostoma olmstedii</i>	53
White Sucker	<i>Catostomus commersoni</i>	48
Largemouth Bass	<i>Micropterus salmoides</i>	15
Creek Chub	<i>Semotilus atromaculatus</i>	9
Yellow Perch	<i>Perca flavescens</i>	5
Green Sunfish	<i>Lepomis cyanellus</i>	2
Pumpkinseed	<i>Lepomis gibbosus</i>	2
Brown Bullhead	<i>Ameiurus nebulosus</i>	1
Yellow Bullhead	<i>Ameiurus natalis</i>	1
Redfin Pickerel	<i>Esox americanus americanus</i>	1