

NJS11-121-R3

Tenakill Brook

Demarest Avenue

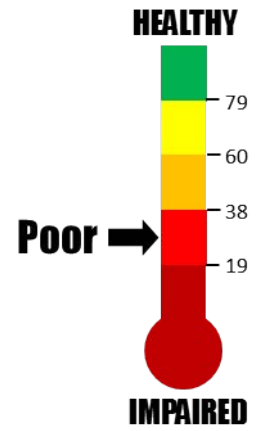
Municipality: Closter Boro

County: Bergen

Drainage Area (sq miles): 8.8

Sample Date: 08/09/2012

Site Type: Probabilistic



IBI Metrics

Metric 1-%Rheophilic Richness	15.85
Metric 2-%Cold Non-tolerant Coolwater	31.29
Metric 3-%Generalist Richness	39.63
Metric 4-Tolerance Index	40.56
Metric 5-%Lithophilic Richness	24.15
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	38.68
Metric 8-%Benthic Insectivore Richness	22.08

Field Chemistry

Air Temp (°C)	32.2
Water Temperature (°C)	21.97
Dissolved Oxygen (mg/L)	5.39
% Saturation	61.8
pH	6.78
Conductivity (µS/cm)	525

Northern Fish IBI Score (0-100): 26.53

IBI Rating: Poor

High Gradient Habitat Score (0-200): 98

Habitat Rating: Marginal

Summary: This stretch of Tenakill Brook is channelized with gabion on both banks. Impacts to the fish community are likely related to the low dissolved oxygen concentration (5.39 mg/l), numerous habitat impairments resulting in a "marginal" habitat rating, and the amount of urban development within the surrounding watershed.

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Common Name	Scientific Name	Abundance
White Sucker	<i>Catostomus commersoni</i>	89
Tessellated Darter	<i>Etheostoma olmstedii</i>	39
Creek Chub	<i>Semotilus atromaculatus</i>	26
Yellow Perch	<i>Perca flavescens</i>	19
Largemouth Bass	<i>Micropterus salmoides</i>	15
Green Sunfish	<i>Lepomis cyanellus</i>	13
Yellow Bullhead	<i>Ameiurus natalis</i>	10
Redfin Pickerel	<i>Esox americanus americanus</i>	9
Pumpkinseed	<i>Lepomis gibbosus</i>	3
American Eel	<i>Anguilla rostrata</i>	2
Redbreast Sunfish	<i>Lepomis auitus</i>	1
Blacknose Dace	<i>Rhinichthys atratulus</i>	1