

NJS11-167-R4

Bound Brook

William St

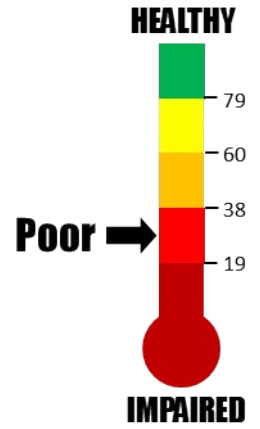
Municipality: Piscataway Twp

County: Middlesex

Drainage Area (sq miles): 23

Sample Date: 07/21/2015

Site Type: Probabilistic



IBI Metrics

Metric 1-%Rheophilic Richness	23.51
Metric 2-%Cold Non-tolerant Coolwater	7.64
Metric 3-%Generalist Richness	36.28
Metric 4-Tolerance Index	40.55
Metric 5-%Lithophilic Richness	19.32
Metric 6-%Cyprinidae	34.54
Metric 7-%Dominant 3 Taxa	21.92
Metric 8-%Benthic Insectivore Richness	35.32

Field Chemistry

Air Temp (°C)	29.1
Water Temperature (°C)	27.03
Dissolved Oxygen (mg/L)	4.00
% Saturation	50.9
pH	7.2
Conductivity (µS/cm)	578.7

Northern Fish IBI Score (0-100): 27.38

IBI Rating: Poor

High Gradient Habitat Score (0-200): 98

Habitat Rating: Marginal

Summary: NJS11-167 exhibited numerous signs of stress typical of an urban stream. These stressors included low dissolved oxygen concentration (4.0 mg/L), "marginal habitat", 60% of the substrate consisted of fine sediment/debris/concrete, very little riparian buffer, and a lack of natural fish cover. As a result, almost all fish metrics scored relatively low.

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Common Name	Scientific Name	Abundance
American Eel	<i>Anguilla rostrata</i>	137
Spottail Shiner	<i>Notropis hudsonius</i>	60
Redbreast Sunfish	<i>Lepomis auritus</i>	51
Golden Shiner	<i>Notemigonus crysoleucas</i>	22
Tessellated Darter	<i>Etheostoma olmstedii</i>	20
Green Sunfish	<i>Lepomis cyanellus</i>	8
Largemouth Bass	<i>Micropterus salmoides</i>	5
Yellow Bullhead	<i>Ameiurus natalis</i>	3
Brown Bullhead	<i>Ameiurus nebulosus</i>	2
Creek Chub	<i>Semotilus atromaculatus</i>	2
White Sucker	<i>Catostomus commersoni</i>	2
Pumpkinseed	<i>Lepomis gibbosus</i>	1
Creek Chubsucker	<i>Erimyzon oblongus</i>	1
Banded Killifish	<i>Fundulus diaphanus</i>	1
Fallfish	<i>Semotilus corporalis</i>	1