

NJS11-113-R3

Ambrose Brook

Lincoln Boulevard

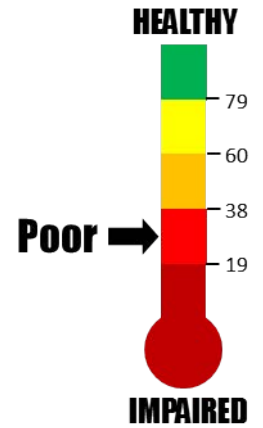
Municipality: Middlesex Boro

County: Middlesex

Drainage Area (sq miles): 14

Sample Date: 06/18/2012

Site Type: Probabilistic



IBI Metrics

Metric 1-%Rheophilic Richness	12.75
Metric 2-%Cold Non-tolerant Coolwater	5.53
Metric 3-%Generalist Richness	56.43
Metric 4-Tolerance Index	31.15
Metric 5-%Lithophilic Richness	24.15
Metric 6-%Cyprinidae	18.10
Metric 7-%Dominant 3 Taxa	61.08
Metric 8-%Benthic Insectivore Richness	29.43

Field Chemistry

Air Temp (°C)	20.1
Water Temperature (°C)	20.6
Dissolved Oxygen (mg/L)	6.98
% Saturation	77.3
pH	6.95
Conductivity (µS/cm)	445

Northern Fish IBI Score (0-100): 29.83

IBI Rating: Poor

High Gradient Habitat Score (0-200): 131

Habitat Rating: Suboptimal

Summary: This section of Ambrose Brook consists of mainly run habitat with very few riffles and pools. Although there were some concrete and blacktop rubble in the stream and the banks were marked erosion scars, there were few significant habitat or water quality impairments. The fish community exhibited high fish taxa richness, but only one specimen of several species was collected.

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Common Name	Scientific Name	Abundance
American Eel	<i>Anguilla rostrata</i>	91
Spottail Shiner	<i>Notropis hudsonius</i>	91
Green Sunfish	<i>Lepomis cyanellus</i>	84
Redbreast Sunfish	<i>Lepomis auritus</i>	52
Pumpkinseed	<i>Lepomis gibbosus</i>	51
Tessellated Darter	<i>Etheostoma olmstedii</i>	46
White Sucker	<i>Catostomus commersoni</i>	44
Bluegill	<i>Lepomis macrochirus</i>	17
Common Carp	<i>Cyprinus carpio</i>	5
Fallfish	<i>Semotilus corporalis</i>	3
Banded Killifish	<i>Fundulus diaphanus</i>	3
Western Mosquitofish	<i>Gambusia affinis</i>	2
Black Crappie	<i>Pomoxis nigromaculatus</i>	2
Swallowtail Shiner	<i>Notropis procne</i>	1
Largemouth Bass	<i>Micropterus salmoides</i>	1
Yellow Bullhead	<i>Ameiurus natalis</i>	1
Creek Chub	<i>Semotilus atromaculatus</i>	1
Margined Madtom	<i>Noturus insignis</i>	1