

NJS11-109a-R4

Drakes Brook

Emmans Rd

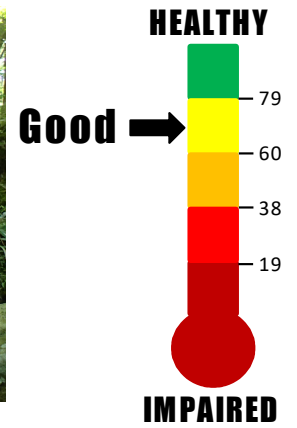
Municipality: ROXBURY TWP

County: Morris

Drainage Area (sq miles): 6

Sample Date: 8 /19/2019

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	78.20
Metric 2-%Cold Non-tolerant Coolwater	91.76
Metric 3-%Generalist Richness	90.02
Metric 4-Tolerance Index	91.23
Metric 5-%Lithophilic Richness	67.61
Metric 6-%Cyprinidae	56.95
Metric 7-%Dominant 3 Taxa	25.71
Metric 8-%Benthic Insectivore Richness	52.98

Field Chemistry

Air Temp (°C)	24.8
Water Temperature (°C)	21.38
Dissolved Oxygen (mg/L)	7.4
% Saturation	84.5
pH	7.45
Conductivity (µS/cm)	858.9
Total Kjeldahl (mg/L)	0.23
Total Phosphorus (mg/L)	0.02
Nitrate/Nitrite (mg/L)	0.05

Northern Fish IBI Score (0-100): 69.31

IBI Rating: Good

High Gradient Habitat Score (0-200): 150

Habitat Rating: Suboptimal

Summary: Despite the "Good" rating, the conductivity was relatively high for a watershed which is more than 50% forest and wetlands. These levels are more typical of highly urbanized watersheds with large amounts of impervious surfaces.

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Common Name	Scientific Name	Abundance
Longnose Dace	<i>Rhinichthys cataractae</i>	76
Tessellated Darter	<i>Etheostoma olmstedi</i>	51
Fallfish	<i>Semotilus corporalis</i>	32
Common Shiner	<i>Luxilus cornutus</i>	8
Margined Madtom	<i>Noturus insignis</i>	8
Brown Trout	<i>Salmo trutta</i>	7
Blacknose Dace	<i>Rhinichthys atratulus</i>	6
American Eel	<i>Anguilla rostrata</i>	6
Green Sunfish	<i>Lepomis cyanellus</i>	5
Creek Chub	<i>Semotilus atromaculatus</i>	4
Bluegill	<i>Lepomis macrochirus</i>	2
White Sucker	<i>Catostomus commersonii</i>	1
Largemouth Bass	<i>Micropterus salmoides</i>	1
Rainbow Trout	<i>Oncorhynchus mykiss</i>	1
Yellow Perch	<i>Perca flavescens</i>	1