

NJS11-166-R4

Lockatong Creek

Kingwood Own Rd

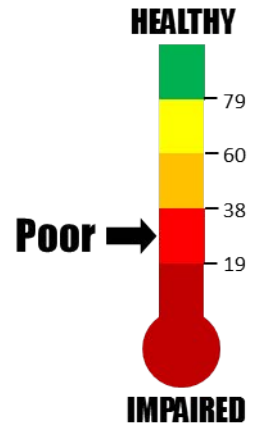
Municipality: Kingwood Twp

County: Hunterdon

Drainage Area (sq miles): 15

Sample Date: 06/19/2015

Site Type: Probabilistic



IBI Metrics

Metric 1-%Rheophilic Richness	14.48
Metric 2-%Cold Non-tolerant Coolwater	50.52
Metric 3-%Generalist Richness	38.65
Metric 4-Tolerance Index	57.83
Metric 5-%Lithophilic Richness	34.09
Metric 6-%Cyprinidae	29.29
Metric 7-%Dominant 3 Taxa	55.07
Metric 8-%Benthic Insectivore Richness	15.58

Field Chemistry

Air Temp (°C)	23.7
Water Temperature (°C)	20.93
Dissolved Oxygen (mg/L)	8.54
% Saturation	97.1
pH	7.32
Conductivity (µS/cm)	221.2

Northern Fish IBI Score (0-100): 36.94

IBI Rating: Poor

High Gradient Habitat Score (0-200): 129

Habitat Rating: Suboptimal

Summary: Most of the substrate in this section of Lockatong Creek is covered in a fine layer of silt which can impact benthic insectivore species. Also, one small riffle was located in the reach and as such, rheophilic species richness was low. There were no other obvious habitat or water quality impairments at the site.

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Common Name	Scientific Name	Abundance
Tessellated Darter	<i>Etheostoma olmstedii</i>	178
Common Shiner	<i>Luxilus cornutus</i>	90
White Sucker	<i>Catostomus commersoni</i>	87
Redbreast Sunfish	<i>Lepomis auritus</i>	77
Banded Killifish	<i>Fundulus diaphanus</i>	39
Swallowtail Shiner	<i>Notropis procne</i>	39
Green Sunfish	<i>Lepomis cyanellus</i>	34
American Eel	<i>Anguilla rostrata</i>	20
Blacknose Dace	<i>Rhinichthys atratulus</i>	17
Creek Chub	<i>Semotilus atromaculatus</i>	14
Satinfin Shiner	<i>Cyprinella analostana</i>	8
Pumpkinseed	<i>Lepomis gibbosus</i>	6
Golden Shiner	<i>Notemigonus crysoleucas</i>	3
Fathead Minnow	<i>Pimephales promelas</i>	2
Spottail Shiner	<i>Notropis hudsonius</i>	2
Bluegill	<i>Lepomis macrochirus</i>	1
Largemouth Bass	<i>Micropterus salmoides</i>	1