

FIBI462-R1

Tillman Brook

Brook Road

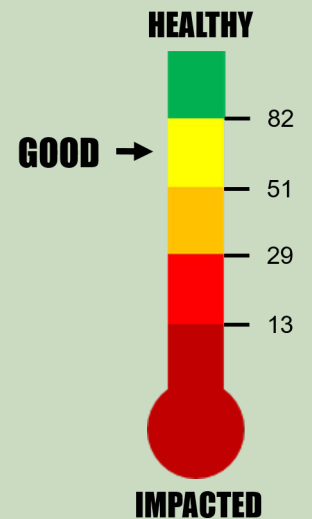
Municipality: Walpack

County: Sussex

Drainage Area (sq miles): 1.6

Sample Date: 7/16/2014

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	100.00
Metric 2 - Proportion of vertebrate species as top carnivores	58.48
Metric 3 -Percent tolerant fish	84.35
Metric 4 -Proportion of total richness as native	90.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	46.20

Air Temperature (°C)	31.8
Water Temperature (°C)	18.16
Dissolved Oxygen (mg/L)	9.08
% Saturation	97.9
pH	6.57
Conductivity (uS/cm)	29.7

Headwaters IBI Score (0-100): ***79.84***

IBI Rating: ***Good***

High Gradient Habitat Score (0-200): ***161***

Habitat Rating: ***Optimal***

Summary: FIBI462 is a sentinel site which is sampled every three years for Headwaters IBI monitoring to evaluate assemblage changes through time and to better understand natural variability. This site contains a healthy population of sensitive fish, crayfish and salamanders. Tillman Brook is located in a highly forested area and protected within the Stokes State Forest.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	64
Brook Trout	<i>Salvelinus fontinalis</i>	21
American Eel	<i>Anguilla rostrata</i>	17
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	17
Common Crayfish	<i>Cambarus bartonii bartonii</i>	15
Green Frog	<i>Lithobates clamitans</i>	13
Creek Chub	<i>Semotilus atromaculatus</i>	6
Longnose Dace	<i>Rhinichthys cataractae</i>	4
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	4
Brown Trout	<i>Salmo trutta</i>	1