

FIBI066a-R3r

Big Flat Brook

Rt 560 end of Flatbrook Road

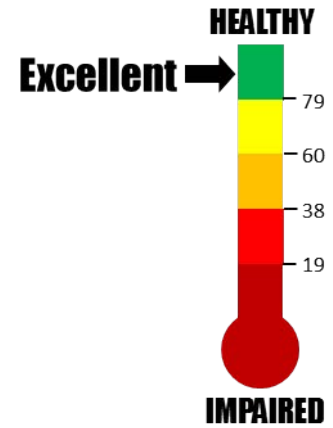
Municipality: Sandyston Twp

County: Sussex

Drainage Area (sq miles): 28

Sample Date: 07/29/2014

Site Type: Sentinel



IBI Metrics

Metric 1-%Rheophilic Richness	100.00
Metric 2-%Cold Non-tolerant Coolwater	88.37
Metric 3-%Generalist Richness	100.00
Metric 4-Tolerance Index	87.94
Metric 5-%Lithophilic Richness	79.03
Metric 6-%Cyprinidae	81.87
Metric 7-%Dominant 3 Taxa	67.66
Metric 8-%Benthic Insectivore Richness	100.00

Field Chemistry

Air Temp (°C)	19.4
Water Temperature (°C)	16.98
Dissolved Oxygen (mg/L)	9.36
% Saturation	98.9
pH	7.29
Conductivity (µS/cm)	130.3

Northern Fish IBI Score (0-100): 88.11

IBI Rating: Excellent

High Gradient Habitat Score (0-200): 176

Habitat Rating: Optimal

Summary: FIBI066a is a sentinel site sampled on a frequent basis to assess environmental change and natural variability in the fish community. Scores have remained stable in Round 3 monitoring with scores differing by just a few tenths of a point. The site is located in a highly forested watershed with little anthropogenic disturbance. The only concern is the low native brook trout abundance and lack of young-of-the-year in this stretch of a FW2-TPC1 stream.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	223
American Eel	<i>Anguilla rostrata</i>	112
Longnose Dace	<i>Rhinichthys cataractae</i>	81
Slimy Sculpin	<i>Cottus cognatus</i>	78
Cutlips Minnow	<i>Exoglossum maxillingua</i>	23
Tessellated Darter	<i>Etheostoma olmstedii</i>	13
Margined Madtom	<i>Noturus insignis</i>	8
White Sucker	<i>Catostomus commersoni</i>	6
Brook Trout	<i>Salvelinus fontinalis</i>	2
Creek Chub	<i>Semotilus atromaculatus</i>	1
Common Shiner	<i>Luxilus cornutus</i>	1