

FIBI066a-R4

Big Flat Brook

Rt 560 end of Flatbrook Road

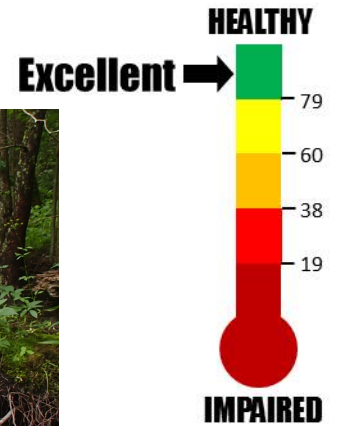
Municipality: Sandyston Twp

County: Sussex

Drainage Area (sq miles): 28

Sample Date: 07/05/2016

Site Type: Sentinel



IBI Metrics

Metric 1-%Rheophilic Richness	99.92
Metric 2-%Cold Non-tolerant Coolwater	87.88
Metric 3-%Generalist Richness	76.58
Metric 4-Tolerance Index	79.77
Metric 5-%Lithophilic Richness	57.95
Metric 6-%Cyprinidae	84.50
Metric 7-%Dominant 3 Taxa	73.20
Metric 8-%Benthic Insectivore Richness	100.00

Field Chemistry

Air Temp (°C)	N/A
Water Temperature (°C)	17.94
Dissolved Oxygen (mg/L)	9.03
% Saturation	96.9
pH	7.04
Conductivity (µS/cm)	142.2

Northern Fish IBI Score (0-100): 82.48

IBI Rating: Excellent

High Gradient Habitat Score (0-200): 177

Habitat Rating: Optimal

Summary: FIBI066a on Big Flat Brook has been rated "excellent" in each of the three sampling events since 2012. Despite the consistent scores and ratings over the years, the abundance of several sensitive species, including slimy sculpin, cutlips minnow, and margined madtom declined in 2016.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	261
American Eel	<i>Anguilla rostrata</i>	127
Longnose Dace	<i>Rhinichthys cataractae</i>	75
Slimy Sculpin	<i>Cottus cognatus</i>	58
Tessellated Darter	<i>Etheostoma olmstedii</i>	17
Cutlips Minnow	<i>Exoglossum maxillingua</i>	13
Redfin Pickerel	<i>Esox americanus americanus</i>	3
Margined Madtom	<i>Noturus insignis</i>	3
Creek Chub	<i>Semotilus atromaculatus</i>	2
Brook Trout	<i>Salvelinus fontinalis</i>	2
Northern Hogsucker	<i>Hypentelium nigricans</i>	1
White Sucker	<i>Catostomus commersonii</i>	1
Pumpkinseed	<i>Lepomis gibbosus</i>	1
Brown Bullhead	<i>Ameiurus nebulosus</i>	1
Bluegill	<i>Lepomis macrochirus</i>	1