

FIBI460-R2

Sun Valley Brook

Wolfe Road

Municipality: Mount Olive Twp

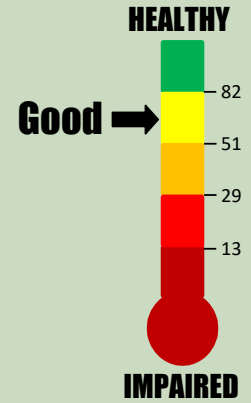
County: Morris

Drainage Area (sq miles): 0.79

Average Width (m): 5.60

Sample Date: 7/9/2019

Site Type: Fixed



Metric 1 - Number of intolerant vertebrate species	66.67
Metric 2 - Proportion of vertebrate species as top carnivores	100.00
Metric 3 -Percent tolerant fish	100.00
Metric 4 -Proportion of total richness as native	100.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	3.30

Air Temperature (°C)	23.4
Water Temperature (°C)	16.75
Dissolved Oxygen (mg/L)	9.22
% Saturation	96.5
pH	6.14
Conductivity (uS/cm)	414.8
Nitrate/Nitrite (mg/L):	1.8
Total Kjeldahl (mg/L):	0.186
Total Phosphorus (mg/L):	0.0218

Headwaters IBI Score (0-100): ***78.33***

IBI Rating: ***Good***

High Gradient Habitat Score (0-200): ***151***

Habitat Rating: ***Suboptimal***

Summary:

Sun Valley Brook scored slightly lower than its previous sampling in 2014(81.68, Excellent). The sampling in 2019 saw declines in brook trout density and the number of intolerant vertebrate species.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	259
Creek Chub	<i>Semotilus atromaculatus</i>	60
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	28
Common Crayfish	<i>Cambarus bartonii bartonii</i>	9
Brook Trout	<i>Salvelinus fontinalis</i>	3
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	1