

# FIBI530-R1

## Weldon Brook Tributary

off Weldon Road

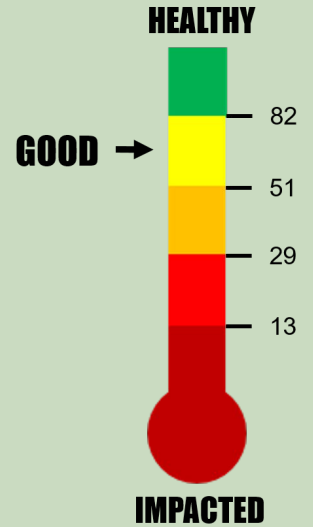
Municipality: Jefferson

County: Morris

Drainage Area (sq miles): 1.0

Sample Date: 6/11/2013

Site Type: Validation



Metric 1 - Number of intolerant vertebrate species	33.33
Metric 2 - Proportion of vertebrate species as top carnivores	65.79
Metric 3 -Percent tolerant fish	95.04
Metric 4 -Proportion of total richness as native	100.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	6.60

Air Temperature (°C)	23
Water Temperature (°C)	15.36
Dissolved Oxygen (mg/L)	8.92
% Saturation	88.7
pH	5.44
Conductivity (uS/cm)	52

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***Headwaters IBI Score (0-100):*** ***66.79***

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***IBI Rating:*** ***Good***

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***High Gradient Habitat Score (0-200):*** ***181***

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***Habitat Rating:*** ***Optimal***

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<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Creek Chubsucker	<i>Erimyzon oblongus</i>	22
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	18
Mud Sunfish	<i>Acantharchus pomotis</i>	11
Brook Trout	<i>Salvelinus fontinalis</i>	6
Spinycheek Crayfish	<i>Orconectes limosus</i>	6
Pumpkinseed	<i>Lepomis gibbosus</i>	2
Chain Pickerel	<i>Esox niger</i>	1
Pickerel Frog	<i>Lithobates palustris</i>	1
Green Frog	<i>Lithobates clamitans</i>	1