

# FIBI445-R1

## Royce Brook Tributary

Old Somerville Road

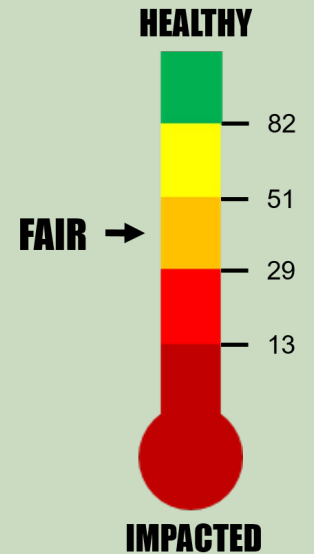
Municipality: Hillsborough

County: Somerset

Drainage Area (sq miles): 1.5

Sample Date: 6/16/2014

Site Type: Fixed



Metric 1 - Number of intolerant vertebrate species	0.00
Metric 2 - Proportion of vertebrate species as top carnivores	23.92
Metric 3 -Percent tolerant fish	55.61
Metric 4 -Proportion of total richness as native	84.62
Metric 5 -Percent native crayfish	55.56
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	23.1
Water Temperature (°C)	17.58
Dissolved Oxygen (mg/L)	5.83
% Saturation	60
pH	6.02
Conductivity (uS/cm)	592

---

***Headwaters IBI Score (0-100):*** ***36.62***

---

***IBI Rating:*** ***Fair***

---

***High Gradient Habitat Score (0-200):*** ***97***

---

***Habitat Rating:*** ***Marginal***

---

# FIBI445-R1

## Royce Brook Tributary

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Tessellated Darter	<i>Etheostoma olmstedi</i>	87
Pumpkinseed	<i>Lepomis gibbosus</i>	33
American Eel	<i>Anguilla rostrata</i>	26
Redbreast Sunfish	<i>Lepomis auritus</i>	20
Banded Killifish	<i>Fundulus diaphanus</i>	18
White Sucker	<i>Catostomus commersoni</i>	15
Creek Chubsucker	<i>Erimyzon oblongus</i>	10
Spinycheek Crayfish	<i>Orconectes limosus</i>	5
Creek Chub	<i>Semotilus atromaculatus</i>	4
Red Swamp Crayfish	<i>Procambarus clarkii</i>	4
Swallowtail Shiner	<i>Notropis procne</i>	2
Redfin Pickerel	<i>Esox americanus americanus</i>	2
Green Sunfish	<i>Lepomis cyanellus</i>	1