

# FIBI038-R3

## Middle Brook

River Road

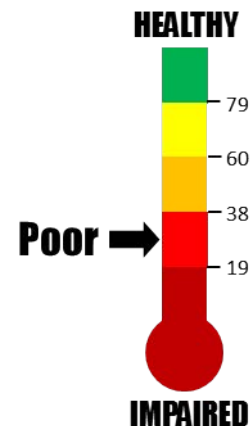
Municipality: Bedminster Twp

County: Somerset

Drainage Area (sq miles): 6.8

Sample Date: 06/03/2014

Site Type: Fixed



### IBI Metrics

Metric 1-%Rheophilic Richness	3.23
Metric 2-%Cold Non-tolerant Coolwater	22.19
Metric 3-%Generalist Richness	62.36
Metric 4-Tolerance Index	51.49
Metric 5-%Lithophilic Richness	51.14
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	59.74
Metric 8-%Benthic Insectivore Richness	31.16

### Field Chemistry

Air Temp (°C)	27
Water Temperature (°C)	19.58
Dissolved Oxygen (mg/L)	6.5
% Saturation	70.8
pH	7.36
Conductivity (µS/cm)	280.5

***Northern Fish IBI Score (0-100): 35.16***

***IBI Rating: Poor***

***High Gradient Habitat Score (0-200): 127***

***Habitat Rating: Suboptimal***

**Summary:** The rating for FIBI038 dropped to "poor" in 2014 as several key species including longnose dace, spottail shiner, smallmouth bass, and common shiner were collected previously, but were not collected in this round. Impacts to the stream habitat were related to bank erosion and sedimentation. The wetted width at the finish measured 10.6-m compare to just 2.5-m downstream at the start where sediment bars have altered the natural stream channel as a result of upstream bank erosion and streambed scouring. This stretch of Middle Brook is one of the few locations in the state in which comely shiner are found.

# **FIBI038-R3**

## **Middle Brook**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Tessellated Darter	<i>Etheostoma olmstedii</i>	69
Redbreast Sunfish	<i>Lepomis auritus</i>	43
White Sucker	<i>Catostomus commersoni</i>	40
Green Sunfish	<i>Lepomis cyanellus</i>	31
Bluegill	<i>Lepomis macrochirus</i>	29
American Eel	<i>Anguilla rostrata</i>	27
Rock Bass	<i>Ambloplites rupestris</i>	15
Pumpkinseed	<i>Lepomis gibbosus</i>	5
Swallowtail Shiner	<i>Notropis procne</i>	5
Spotfin Shiner	<i>Cyprinella spiloptera</i>	4
Creek Chub	<i>Semotilus atromaculatus</i>	3
Comely Shiner	<i>Notropis amoenus</i>	2
Yellow Bullhead	<i>Ameiurus natalis</i>	2
Common Shiner	<i>Luxilus cornutus</i>	1
Blacknose Dace	<i>Rhinichthys atratulus</i>	1
Largemouth Bass	<i>Micropterus salmoides</i>	1
Margined Madtom	<i>Noturus insignis</i>	1