

FIBI504-R1

Rahway River EB

Meadowbrook Lane

Municipality: South Orange Village

County: Essex

Drainage Area (sq miles): 2.5

Sample Date: 5/16/2013

Site Type: Fixed



Metric 1 - Number of intolerant vertebrate species	0.00
Metric 2 - Proportion of vertebrate species as top carnivores	0.00
Metric 3 -Percent tolerant fish	0.00
Metric 4 -Proportion of total richness as native	50.00
Metric 5 -Percent native crayfish	0.00
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	24
Water Temperature (°C)	14.76
Dissolved Oxygen (mg/L)	10.49
% Saturation	104
pH	6.27
Conductivity (uS/cm)	805

Headwaters IBI Score (0-100): **8.33**

IBI Rating: ***Very Poor***

High Gradient Habitat Score (0-200): **79**

Habitat Rating: ***Marginal***

Summary: The East Branch Rahway River received a "very poor" rating in 2013, and has the lowest (8.33) HIBI score in the network. This site was dominated by pollution tolerant fishes. This site is located in an urban park setting and had no overhead tree canopy cover, severe channelization and had several stormwater outfalls discharging into the stream. Habitat restoration was completed at this site in 2011 to redesign the banks and develop a riparian buffer along the stream.

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Common Name	Scientific Name	Abundance
Mummichog	<i>Fundulus heteroclitus</i>	1428
Fathead Minnow	<i>Pimephales promelas</i>	339
White Sucker	<i>Catostomus commersoni</i>	210
Green Sunfish	<i>Lepomis cyanellus</i>	15
American Eel	<i>Anguilla rostrata</i>	5
Western Mosquitofish	<i>Gambusia affinis</i>	1