

NJPB-138-R1

Rahway River Tributary

Springfield Ave.

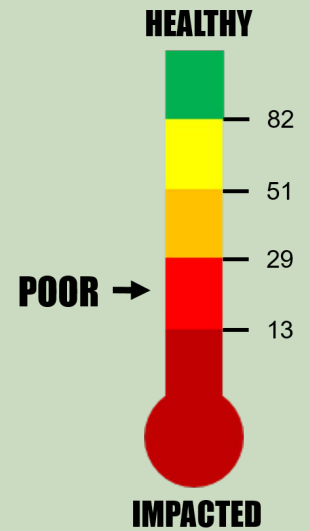
Municipality: Springfield

County: Union

Drainage Area (sq miles): 0.6

Sample Date: 8/25/2014

Site Type: Probabilistic



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	75.00
Metric 5 -Percent native crayfish	0.00
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	25.5
Water Temperature (°C)	19.74
Dissolved Oxygen (mg/L)	4.6
% Saturation	49.7
pH	6.07
Conductivity (uS/cm)	1139

Headwaters IBI Score (0-100): ***12.50***

IBI Rating: ***Poor***

High Gradient Habitat Score (0-200): ***55***

Habitat Rating: ***Poor***

Summary: This site on a tributary to the Rahway River received a "poor" rating in 2014. This site was dominated by pollution tolerant fishes. The riparian of this stream was lined with Japanese knotweed, a rapidly spreading invasive plant that can out compete native stream vegetation. This site also lacked suitable habitat for aquatic fauna and contained highly embedded substrate.

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Common Name	Scientific Name	Abundance
Mummichog	<i>Fundulus heteroclitus</i>	411
Banded Killifish	<i>Fundulus diaphanus</i>	40
White Sucker	<i>Catostomus commersoni</i>	32
Creek Chub	<i>Semotilus atromaculatus</i>	2
Blacknose Dace	<i>Rhinichthys atratulus</i>	2
Fathead Minnow	<i>Pimephales promelas</i>	2
Green Sunfish	<i>Lepomis cyanellus</i>	1
Common Shiner	<i>Luxilus cornutus</i>	1