

# FIBI533-R1

## Walnut Brook

Capner Street

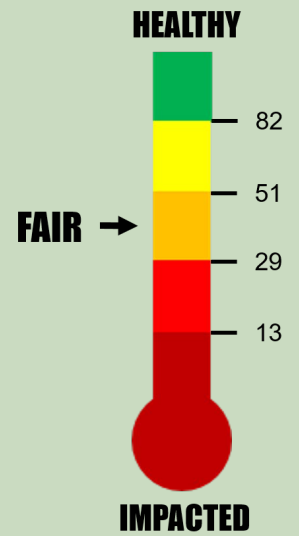
Municipality: Raritan

County: Hunterdon

Drainage Area (sq miles): 2.3

Sample Date: 5/13/2014

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                               | 91.45 |
| Metric 4 -Proportion of total richness as native              | 90.00 |
| Metric 5 -Percent native crayfish                             | 50.00 |
| Metric 6 -Brook trout density                                 | 0.00  |

|                         |       |
|-------------------------|-------|
| Air Temperature (°C)    | 18.8  |
| Water Temperature (°C)  | 15.58 |
| Dissolved Oxygen (mg/L) | 10.8  |
| % Saturation            | 106.7 |
| pH                      | 6.44  |
| Conductivity (uS/cm)    | 271   |

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***Headwaters IBI Score (0-100):*** ***38.57***

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

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***High Gradient Habitat Score (0-200):*** ***143***

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***Habitat Rating:*** ***Suboptimal***

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## **Walnut Brook**

| <b>Common Name</b>            | <b>Scientific Name</b>            | <b>Abundance</b> |
|-------------------------------|-----------------------------------|------------------|
| Blacknose Dace                | <i>Rhinichthys atratulus</i>      | 206              |
| Creek Chub                    | <i>Semotilus atromaculatus</i>    | 143              |
| Northern Two-lined Salamander | <i>Eurycea bislineata</i>         | 66               |
| Common Shiner                 | <i>Luxilus cornutus</i>           | 52               |
| White Sucker                  | <i>Catostomus commersoni</i>      | 33               |
| Common Crayfish               | <i>Cambarus bartonii bartonii</i> | 6                |
| Virile Crayfish               | <i>Orconectes virilis</i>         | 6                |
| American Eel                  | <i>Anguilla rostrata</i>          | 3                |
| Green Frog                    | <i>Lithobates clamitans</i>       | 1                |
| Longnose Dace                 | <i>Rhinichthys cataractae</i>     | 1                |