

FIBI512-R1

Shabakunk Creek WB

Lower Ferry Road

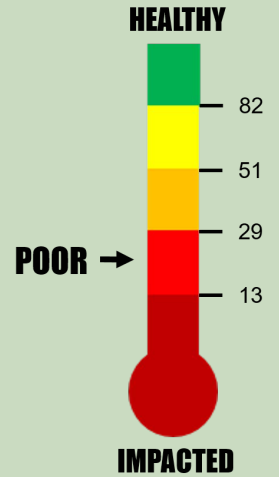
Municipality: Ewing

County: Mercer

Drainage Area (sq miles): 1.6

Sample Date: 9/27/2013

Site Type: Validation



| | |
|---|-------|
| Metric 1 - Number of intolerant vertebrate species | 0.00 |
| Metric 2 - Proportion of vertebrate species as top carnivores | 17.54 |
| Metric 3 -Percent tolerant fish | 76.84 |
| 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) | 18.5 |
| Water Temperature (°C) | 14.97 |
| Dissolved Oxygen (mg/L) | 6.74 |
| % Saturation | 65.7 |
| pH | 5.59 |
| Conductivity (uS/cm) | 332 |

Headwaters IBI Score (0-100): **28.23**

IBI Rating: **Poor**

High Gradient Habitat Score (0-200): **85**

Habitat Rating: **Marginal**

Summary: FIBI512 was rated "poor" in 2013, however was just below the scoring threshold for rating "fair." This site contained 16 species, which is rather high for a headwater stream. The West Branch of Shabakunk Creek lacked intolerant species and was primarily composed of generalist species.

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| Common Name | Scientific Name | Abundance |
|-------------------------------|--------------------------------|------------------|
| Blacknose Dace | <i>Rhinichthys atratulus</i> | 438 |
| Creek Chub | <i>Semotilus atromaculatus</i> | 364 |
| Common Shiner | <i>Luxilus cornutus</i> | 171 |
| Pumpkinseed | <i>Lepomis gibbosus</i> | 136 |
| Spottail Shiner | <i>Notropis hudsonius</i> | 111 |
| Banded Killifish | <i>Fundulus diaphanus</i> | 73 |
| Tessellated Darter | <i>Etheostoma olmstedii</i> | 60 |
| White Sucker | <i>Catostomus commersoni</i> | 56 |
| Green Sunfish | <i>Lepomis cyanellus</i> | 47 |
| Virile Crayfish | <i>Orconectes virilis</i> | 33 |
| American Eel | <i>Anguilla rostrata</i> | 12 |
| Western Mosquitofish | <i>Gambusia affinis</i> | 5 |
| Northern Two-lined Salamander | <i>Eurycea bislineata</i> | 5 |
| Redbreast Sunfish | <i>Lepomis auritus</i> | 4 |
| Bullfrog | <i>Lithobates catesbeianus</i> | 1 |
| Bluegill | <i>Lepomis macrochirus</i> | 1 |