

# **FIBI041-R4** **Shabakunk Creek**

**End of 4th Street**

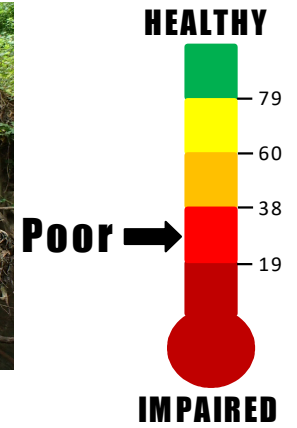
**Municipality: Ewing Twp**

**County: Mercer**

**Drainage Area (sq miles): 6**

**Sample Date: 7/11/2017**

**Site Type: Fixed**



## **IBI Metrics**

|   |       |
|---|-------|
| <b>Metric 1-%Rheophilic Richness</b>          | 9.14  |
| <b>Metric 2-%Cold Non-tolerant Coolwater</b>  | 40.04 |
| <b>Metric 3-%Generalist Richness</b>          | 17.67 |
| <b>Metric 4-Tolerance Index</b>               | 70.63 |
| <b>Metric 5-%Lithophilic Richness</b>         | 22.29 |
| <b>Metric 6-%Cyprinidae</b>                   | 26.74 |
| <b>Metric 7-%Dominant 3 Taxa</b>              | 56.99 |
| <b>Metric 8-%Benthic Insectivore Richness</b> | 20.38 |

## **Field Chemistry**

|                                |       |
|--------------------------------|-------|
| <b>Air Temp (°C)</b>           | 24.6  |
| <b>Water Temperature (°C)</b>  | 22.41 |
| <b>Dissolved Oxygen (mg/L)</b> | 6.3   |
| <b>% Saturation</b>            | 71.9  |
| <b>pH</b>                      | 7.07  |
| <b>Conductivity (µS/cm)</b>    | 451.8 |
| <b>Total Kjeldahl (mg/L)</b>   | 0.35  |
| <b>Total Phosphorus (mg/L)</b> | 0.08  |
| <b>Nitrate/Nitrite (mg/L)</b>  | 0.60  |

***Northern Fish IBI Score (0-100): 32.99***

***IBI Rating: Poor***

***High Gradient Habitat Score (0-200): 114***

***Habitat Rating: Suboptimal***

**Summary:** Habitat and water quality impairments have remained the same over the last couple of rounds of monitoring which have impacted the resident fish assemblage. There were no new observed impacts. To review past impacts, see 2012 FIBI041-R3 data report.

# **FIBI041-R4**

## **Shabakunk Creek**

| <b>Common Name</b> | <b>Scientific Name</b>         | <b>Abundance</b> |
|--------------------|--------------------------------|------------------|
| Tessellated Darter | <i>Etheostoma olmstedii</i>    | 60               |
| Creek Chub         | <i>Semotilus atromaculatus</i> | 37               |
| Spottail Shiner    | <i>Notropis hudsonius</i>      | 34               |
| Redbreast Sunfish  | <i>Lepomis auritus</i>         | 34               |
| White Sucker       | <i>Catostomus commersoni</i>   | 25               |
| Blacknose Dace     | <i>Rhinichthys atratulus</i>   | 15               |
| American Eel       | <i>Anguilla rostrata</i>       | 13               |
| Brown Bullhead     | <i>Ameiurus nebulosus</i>      | 4                |
| Bluegill           | <i>Lepomis macrochirus</i>     | 3                |
| Largemouth Bass    | <i>Micropterus salmoides</i>   | 3                |
| Banded Killifish   | <i>Fundulus diaphanus</i>      | 3                |
| Yellow Bullhead    | <i>Ameiurus natalis</i>        | 1                |
| Green Sunfish      | <i>Lepomis cyanellus</i>       | 1                |