

# FIBI225-R2r2

## Lahaway Creek

Meir Road

Municipality: Upper Freehold Twp

County: Monmouth

Drainage Area (sq miles): 13

Sample Date: 07/23/2014

Site Type: Sentinel



### IBI Metrics

Metric 1 - Native Sp.	75.62
Metric 2 - Benthic Sp	61.84
Metric 3 - Intolerant Sp.	40.78
Metric 4 - %Tolerant Sp.	54.16
Metric 5-%Insectivore Sp.	46.69
Metric 6 -%Piscivorous Sp.	23.44
Metric 7 - Abundance-tolerance	30.77
Metric 8-% DELTs	100.00

### Field Chemistry

Air Temp (°C)	27.7
Water Temperature (°C)	23.3
Dissolved Oxygen (mg/L)	7.4
% Saturation	86.9
pH	6.49
Conductivity (µS/cm)	131.8

***Southern Fish IBI Score (0-100): 54.16***

***IBI Rating: Fair***

***Low Gradient Habitat Score (0-200): 149***

***Habitat Rating: Suboptimal***

**Summary:** FIBI225 is one of two sentinel sites in the Inner Coastal Plain which has been sampled 4 times since 2008. These sites are monitored on a routine basis every other year to assess environmental change, as well as natural variability. 2014 was the first time the site did not receive a score in the 70's and a subsequent "good" rating. In the first three sampling events both American brook lamprey and sea lamprey were collected, but in this 2014 event only one American brook lamprey was collected. In addition, the relative abundance of tolerant species increased while the number of insectivore species decline when compared to previous events.

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Common Name	Scientific Name	Abundance
American Eel	<i>Anguilla rostrata</i>	59
Fallfish	<i>Semotilus corporalis</i>	26
Tessellated Darter	<i>Etheostoma olmstedi</i>	18
Brown Bullhead	<i>Ameiurus nebulosus</i>	11
Largemouth Bass	<i>Micropterus salmoides</i>	10
Redbreast Sunfish	<i>Lepomis auritus</i>	10
Satinfin Shiner	<i>Cyprinella analostana</i>	8
Bluegill	<i>Lepomis macrochirus</i>	7
Common Shiner	<i>Luxilus cornutus</i>	4
White Sucker	<i>Catostomus commersoni</i>	3
Eastern Mudminnow	<i>Umbra pygmaea</i>	1
Creek Chub	<i>Semotilus atromaculatus</i>	1
Chain Pickerel	<i>Esox niger</i>	1
American Brook Lamprey	<i>Lethenteron appendix</i>	1
Black Crappie	<i>Pomoxis nigromaculatus</i>	1