

FIBI044-R4

Deepavaal Brook

Daniel Road

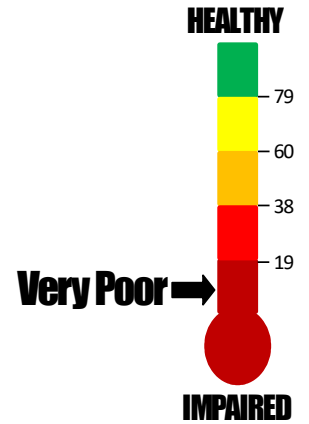
Municipality: Fairfield Twp

County: Essex

Drainage Area (sq miles): 6

Sample Date: 7/3/2018

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	0.00
Metric 2-%Cold Non-tolerant Coolwater	6.72
Metric 3-%Generalist Richness	0.45
Metric 4-Tolerance Index	50.99
Metric 5-%Lithophilic Richness	0.00
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	48.71
Metric 8-%Benthic Insectivore Richness	29.43

Field Chemistry

Air Temp (°C)	32.2
Water Temperature (°C)	23.55
Dissolved Oxygen (mg/L)	5.4
% Saturation	63.8
pH	7.19
Conductivity (µS/cm)	1115
Total Kjeldahl (mg/L)	0.47
Total Phosphorus (mg/L)	0.04
Nitrate/Nitrite (mg/L)	0.87

Northern Fish IBI Score (0-100): 17.04

IBI Rating: Very Poor

High Gradient Habitat Score (0-200): 99

Habitat Rating: Marginal

Summary: Scores have not improved at FIBI044 on Depavaal Brook over the years. The 2018 specific conductance was one of the highest values measured at an IBI site. In addition, the dissolved oxygen concentration was relatively low and the habitat was rated marginal.

FIBI044-R4

Deepavaal Brook

Common Name	Scientific Name	Abundance
Redfin Pickerel	<i>Esox americanus americanus</i>	30
Tessellated Darter	<i>Etheostoma olmstedi</i>	27
Green Sunfish	<i>Lepomis cyanellus</i>	26
White Sucker	<i>Catostomus commersonii</i>	21
Yellow Bullhead	<i>Ameiurus natalis</i>	13
Redbreast Sunfish	<i>Lepomis auritus</i>	13
Pumpkinseed	<i>Lepomis gibbosus</i>	3
Eastern Mudminnow	<i>Umbra pygmaea</i>	1
Bluegill	<i>Lepomis macrochirus</i>	1