

**Big Creek Downstream of Jennings Road
August 8, 2008**

**Collection Distance: 0.2 km
Collection Method: Longline Electroshocking
Drainage Area: 37 miles²
River Mile: 0.15**

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>	<u>DELT Anomalies Description</u>
<i>Hypentelium nigricans</i> Northern hog sucker	4	0.694	Moderately Intolerant	0	--
<i>Catostomus commersonii</i> Common white sucker	14	0.448	Highly Tolerant	0	--
<i>Cyprinella spiloptera</i> Spotfin shiner	2	0.016	--	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	10	0.018	--	0	--
<i>Ictalurus natalis</i> Yellow bullhead	10	0.890	Highly Tolerant	0	--
<i>Micropterus dolomieu</i> Smallmouth bass	2	0.220	Moderately Intolerant	0	--
<i>Micropterus salmoides</i> Largemouth bass	31	0.178	--	0	--
<i>Lepomis cyanellus</i> Green sunfish	12	0.184	Highly Tolerant	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	15	0.190	Moderately Tolerant	0	--
<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	0.170	Moderately Tolerant	0	--
<i>HYBRID</i> Bluegill X Pumpkinseed	3	0.100	--	0	--
<i>Neogobius melanostomus</i> Round goby	10	0.114	--	0	--
Totals	<u>115</u>	<u>3.222</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 34 (Marginally Good)
 Modified Index of Well-Being (MIwb) 6.9 (Fair)
 Shannon Diversity Index, wt. 2.172
 Shannon Diversity Index, no. 2.071

**Big Creek Downstream of Jennings Road
August 8, 2008**

N
B

99
2.229

**Big Creek Downstream of Jennings Road
September 19, 2008**

**Collection Distance: 0.2 km
Collection Method: Longline Electroshocking
Drainage Area: 37.1 miles²
River Mile: 0.15**

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>	<u>DELT Anomalies Description</u>
<i>Hypentelium nigricans</i> Northern hog sucker	12	1.335	Moderately Intolerant	0	--
<i>Catostomus commersonii</i> Common white sucker	13	0.377	Highly Tolerant	0	--
<i>Carassius auratus</i> Goldfish	1	0.193	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	3	0.002	Highly Tolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	3	0.005	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	3	0.014	--	0	--
<i>Ictalurus natalis</i> Yellow bullhead	4	0.427	Highly Tolerant	0	--
<i>Micropterus salmoides</i> Largemouth bass	6	0.055	--	0	--
<i>Lepomis cyanellus</i> Green sunfish	7	0.085	Highly Tolerant	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	6	0.121	Moderately Tolerant	0	--
<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.028	Moderately Tolerant	0	--
<i>HYBRID</i> Green SF X Pumpkinseed	1	0.027	--	0	--
<i>Percina caprodes</i> Northern logperch darter	1	0.005	Moderately Intolerant	0	--
<i>Neogobius melanostomus</i> Round goby	13	0.096	--	0	--
Totals	<u>74</u>	<u>2.770</u>		<u>0</u>	

**Big Creek Downstream of Jennings Road
September 19, 2008**

*DELT anomalies were observed on 0.00 % of the fish collected.
Index of Biotic Integrity (IBI) = 30 (Marginally Good)
Modified Index of Well-Being (MIwb) 6.3 (Fair)
Shannon Diversity Index, wt. 2.317
Shannon Diversity Index, no. 1.681
N 43.5
B 2.337

**Big Creek at Memphis Park
August 12, 2008**

**Collection Distance: 0.15 km
Collection Method: Longline Electroshocking
Drainage Area: 19.3 miles²
River Mile: 4.40**

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>
<i>Catostomus commersonii</i> Common white sucker	29	0.000	Highly Tolerant	0
<i>Rhinichthys atratulus</i> Western blacknose dace	86	0.000	Highly Tolerant	0
<i>Semotilus atromaculatus</i> Creek chub	67	0.000	Highly Tolerant	0
<i>Notropis stramineus</i> Sand shiner	6	0.000	Moderately Intolerant	0
<i>Pimephales promelas</i> Northern fathead minnow	1	0.000	Highly Tolerant	0
<i>Pimephales notatus</i> Bluntnose minnow	141	0.000	Highly Tolerant	0
<i>Campostoma anomalum</i> Central stoneroller minnow	402	0.000	--	0
<i>Notropis dorsalis</i> Bigmouth Shiner	9	0.000	--	0
Totals	<u>741</u>	<u>0.000</u>		<u>0</u>

*DELT anomalies were observed on 0.0 of the fish collected.
Index of Biotic Integrity (IBI) = 32 (Fair)

**Big Creek-Ford Branch at West 150th Street
August 12, 2008**

**Collection Distance: 0.15 km
Collection Method: Longline Electroshocking
Drainage Area: 4.3 miles²
River Mile: 4.70**

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>	<u>DELT Anomalies Description</u>
<i>Catostomus commersonii</i> Common white sucker	5	0.000	Highly Tolerant	1	Fin lesion
<i>Carassius auratus</i> Goldfish	24	0.000	Highly Tolerant	1	Deformed tail
<i>Pimephales promelas</i> Northern fathead minnow	62	0.000	Highly Tolerant	0	--
Totals	<u>91</u>	<u>0.000</u>		<u>2</u>	

*DELT anomalies were observed on 2.2 of the fish collected.
Index of Biotic Integrity (IBI) = 12 (Very Poor)