

**Euclid Creek Upstream of Highland Road
06/27/07**

**Collection Distance: 0.2 km
Collection Method: Boat Electroshocking
Drainage Area: 21.4 miles²
River Mile: 2.70**

<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	3	0.060	Highly Tolerant	0	--
<i>Rhinichthys atratulus</i> Western blacknose dace	95	0.366	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	23	0.222	Highly Tolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	2	0.030	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	49	0.350	--	0	--
Totals	<u>172</u>	<u>1.028</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 24 (Poor)
 Modified Index of Well-Being (MIwb) 4.2 (Very Poor)
 Shannon Diversity Index, wt. 1.077
 Shannon Diversity Index, no. 1.334
 N 73.5
 B 0.525

**Euclid Creek Upstream of Highland Road
09/04/07**

**Collection Distance: 0.2 km
Collection Method: Boat Electroshocking
Drainage Area: 21.4 miles²
River Mile: 2.70**

<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	29	0.064	Highly Tolerant	0	--
<i>Rhinichthys atratulus</i> Western blacknose dace	190	0.560	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	171	1.062	Highly Tolerant	0	--
<i>Pimephales promelas</i> Northern fathead minnow	4	0.006	Highly Tolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	1	0.002	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	500	1.804	--	0	--
Totals	<u><u>895</u></u>	<u><u>3.498</u></u>		<u><u>0</u></u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 26 (Fair)
 Modified Index of Well-Being (MIwb) 6.0 (Poor)
 Shannon Diversity Index, wt. 1.113
 Shannon Diversity Index, no. 1.085
 N 750
 B 2.706

**Euclid Creek Upstream of St. Clair Avenue
06/27/07**

**Collection Distance: 0.2 km
Collection Method: Boat Electroshocking
Drainage Area: 22 miles²
River Mile: 1.65**

<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	30	1.300	Highly Tolerant	0	--
<i>Rhinichthys atratulus</i> Western blacknose dace	113	0.482	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	44	0.572	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	75	0.302	--	0	--
<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.030	Moderately Tolerant	0	--
Totals	<u>263</u>	<u>2.686</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 24 (Poor)
 Modified Index of Well-Being (MIwb) 4.6 (Very Poor)
 Shannon Diversity Index, wt. 1.289
 Shannon Diversity Index, no. 1.285
 N 114
 B 0.498

**Euclid Creek Upstream of St. Clair Avenue
09/04/07**

**Collection Distance: 0.2 km
Collection Method: Boat Electroshocking
Drainage Area: 22 miles²
River Mile: 1.65**

<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	19	0.182	Highly Tolerant	0	--
<i>Rhinichthys atratulus</i> Western blacknose dace	127	0.392	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	104	0.810	Highly Tolerant	0	--
<i>Pimephales promelas</i> Northern fathead minnow	1	0.002	Highly Tolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	5	0.014	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	281	1.270	--	0	--
Totals	<u><u>537</u></u>	<u><u>2.670</u></u>		<u><u>0</u></u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 26 (Fair)
 Modified Index of Well-Being (MIwb) 5.7 (Poor)
 Shannon Diversity Index, wt. 1.171
 Shannon Diversity Index, no. 1.213
 N 421.5
 B 1.905

**Euclid Creek Downstream of Lake Shore Boulevard
06/27/07**

**Collection Distance: 0.2 km
Collection Method: Longline Electroshocking
Drainage Area: 23 miles²
River Mile: 0.55**

<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	2	0.240	Moderately Intolerant	0	--
<i>Catostomus commersonii</i> Common white sucker	30	0.490	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	26	0.158	Highly Tolerant	0	--
<i>Notropis atherinoides</i> Common Emerald shiner	31	0.056	--	0	--
<i>Notropis stramineus</i> Sand shiner	10	0.026	Moderately Intolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	2	0.046	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	40	0.104	--	0	--
<i>Ictalurus natalis</i> Yellow bullhead	13	1.940	Highly Tolerant	1	Lesion
<i>Ictalurus nebulosus</i> Brown bullhead	12	1.670	Highly Tolerant	7	Deformities & Multiple
<i>Lepomis cyanellus</i> Green sunfish	3	0.122	Highly Tolerant	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	7	0.152	Moderately Tolerant	0	--
<i>Lepomis gibbosus</i> Pumpkinseed sunfish	9	0.212	Moderately Tolerant	0	--
<i>HYBRID</i> Green SF X Bluegill SF	1	0.080	--	0	
<i>HYBRID</i> Green SF X Pumpkinseed	1	0.030	--	0	
<i>Lepisosteus osseus</i> Longnose Gar	1	0.450	--	0	

**Euclid Creek Downstream of Lake Shore Boulevard
06/27/07**

	188	5.776	8
	188	5.776	8

*DELT anomalies were observed on 4.26 % of the fish collected.
 Index of Biotic Integrity (IBI) = 26 (Fair)
 Modified Index of Well-Being (MIwb) 7.0 (Fair)
 Shannon Diversity Index, wt. 2.224
 Shannon Diversity Index, no. 1.929
 N 150
 B 1.86

**Euclid Creek Downstream of Lake Shore Boulevard
08/31/07**

**Collection Distance: 0.2 km
Collection Method: Boat Electroshocking
Drainage Area: 23 miles²
River Mile: 0.55**

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>	<u>DELT Anomalies Description</u>
<i>Oncorhynchus mykiss</i> Rainbow trout	1	0.178	--	0	--
<i>Carpoides cyprinus</i> Central quillback carpsucker	2	0.040	--	0	--
<i>Catostomus commersonii</i> Common white sucker	199	1.182	Highly Tolerant	0	--
<i>Cyprinus carpio</i> Common carp	14	0.270	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	179	0.700	Highly Tolerant	0	--
<i>Notropis stramineus</i> Sand shiner	3	0.006	Moderately Intolerant	0	--
<i>Notropis volucellus</i> Mimic Shiner	12	0.040	Common Intolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	49	0.136	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	242	0.592	--	0	--
<i>Ictalurus natalis</i> Yellow bullhead	15	0.710	Highly Tolerant	0	--
<i>Ictalurus nebulosus</i> Brown bullhead	33	0.250	Highly Tolerant	7	Mouth lesions
<i>Micropterus dolomieu</i> Smallmouth bass	1	0.050	Moderately Intolerant	0	--
<i>Micropterus salmoides</i> Largemouth bass	8	0.200	--	0	--
<i>Lepomis cyanellus</i> Green sunfish	4	0.180	Highly Tolerant	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	4	0.020	Moderately Tolerant	0	--

**Euclid Creek Downstream of Lake Shore Boulevard
08/31/07**

<i>Lepomis gibbosus</i> Pumpkinseed sunfish	37	0.562	Moderately Tolerant	0	--
<i>HYBRID</i> Green SF X Bluegill SF	2	0.010	--	0	
<i>Neogobius melanostomus</i> Round goby	1	0.010	--	0	--
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Totals	<u>806</u>	<u>5.136</u>		<u>7</u>	

*DELT anomalies were observed on 0.87 % of the fish collected.
 Index of Biotic Integrity (IBI) = 28 (Fair)
 Modified Index of Well-Being (MIwb) 7.7 (Fair)
 Shannon Diversity Index, wt. 1.864
 Shannon Diversity Index, no. 2.307
 N 463.5
 B 2.265