

Euclid Creek Downstream of Mayfield Road

6/23/2014

River Mile: 6.90

Collection Method: Longline Electroshocking

Drainage Area: 3.9 miles²

Collection Distance: 0.15 km

Code	Species	Number	Pollution Tolerance	DELT Anomalies #	Description
43-013	<i>Semotilus atromaculatus</i> Creek chub	33	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	1	Moderately Tolerant	0	---
Totals		<u>34</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 20 (Poor)

Euclid Creek Upstream of Confluence with East Branch

7/15/2014

River Mile: 3.30

Collection Method: Longline Electroshocking

Drainage Area: 9.1 miles²

Collection Distance: 0.15 km

Code	Species	Number	Pollution Tolerance	DELT Anomalies #	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	14	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	75	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	82	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	1	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	129	--	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	1	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	Moderately Tolerant	0	---
Totals		<u>305</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
Index of Biotic Integrity (IBI) = 32 (Fair)

Euclid Creek East Branch Downstream of Richmond Road

6/30/2014

River Mile: 2.80

Collection Method: Longline Electroshocking

Drainage Area: 7.1 miles²

Collection Distance: 0.15 km

Code	Species	Number	Pollution Tolerance	DELT Anomalies #	Description
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	1	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	31	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	1	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	10	--	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	Moderately Tolerant	0	---
Totals		<u>44</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
Index of Biotic Integrity (IBI) = 22 (Poor)

Euclid Creek Upstream of Highland Road
July 1, 2014
River Mile: 2.70
Collection Method: Longline Electrofishing
Drainage Area: 21.4 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	10	0.245	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	80	0.310	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	70	0.720	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	7	0.050	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	61	0.450	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	1	0.011	Moderately Tolerant	0	---
Totals		<u>229</u>	<u>1.786</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) = 4.9 (Poor)
 Shannon Diversity Index, no. 1.349
 Shannon Diversity Index, wt. 1.421
 N 93
 B 0.692

Euclid Creek Upstream of Highland Road
August 28, 2014
River Mile: 2.70
Collection Method: Longline Electrofishing
Drainage Area: 21.4 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	16	0.370	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	244	0.611	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	173	1.484	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	21	0.105	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	169	1.195	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	0.030	Highly Tolerant	0	---
Totals		<u>624</u>	<u>3.795</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 26 (Poor)
 Modified Index of Well-Being (MIwb) = 5.7 (Poor)
 Shannon Diversity Index, no. 1.295
 Shannon Diversity Index, wt. 1.39
 N 253.5
 B 1.793

Euclid Creek Upstream of St. Clair Avenue
July 1, 2014
River Mile: 1.65
Collection Method: Longline Electrofishing
Drainage Area: 21.8 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	9	0.275	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	47	0.220	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	77	0.860	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	55	0.402	--	0	---
Totals		<u>188</u>	<u>1.757</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 22 (Poor)
 Modified Index of Well-Being (MIwb) = 4.4 (Very Poor)
 Shannon Diversity Index, no. 1.217
 Shannon Diversity Index, wt. 1.238
 N 82.5
 B 0.603

Euclid Creek Upstream of St. Clair Avenue
August 28, 2014
River Mile: 1.65
Collection Method: Longline Electrofishing
Drainage Area: 21.8 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	16	0.133	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	235	0.405	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	47	0.902	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	1	0.006	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	228	0.756	--	0	---
Totals		<u>527</u>	<u>2.202</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 26 (Poor)
 Modified Index of Well-Being (MIwb) = 5.3 (Poor)
 Shannon Diversity Index, no. 1.056
 Shannon Diversity Index, wt. 1.23
 N 342
 B 1.134

Unnamed Tributary to Euclid Creek, Main Branch Upstream of Richmond Road

6/23/2013

River Mile: 1.50

Collection Method: Longline Electroshocking

Drainage Area: 1.2 miles²

Collection Distance: 0.15 km

Code	Species	Number	Pollution Tolerance	DELT Anomalies #	Description
43-013	<i>Semotilus atromaculatus</i> Creek chub	59	Highly Tolerant	0	---
Totals		<u>59</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 20 (Poor)

Euclid Creek at Concrete Structure Upstream of Lakeshore Boulevard

July 1, 2014

River Mile: 1.00

Collection Method: Longline Electrofishing

Drainage Area: 23.1 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	13	0.425	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	37	0.112	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	39	0.350	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	8	0.010	--	0	---
43-026	<i>Notropis cornutus</i> Common shiner	1	0.005	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	1	0.010	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	5	0.020	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	32	0.130	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	7	0.280	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	1	0.010	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	3	0.040	Moderately Tolerant	0	---
Totals		<u>147</u>	<u>1.392</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 26 (Poor)
 Modified Index of Well-Being (MIwb) = 5.1 (Poor)
 Shannon Diversity Index, no. 1.845
 Shannon Diversity Index, wt. 1.746
 N 69
 B 0.308

Euclid Creek at Concrete Structure Upstream of Lakeshore Boulevard
August 28, 2014
River Mile: 1.00
Collection Method: Longline Electrofishing
Drainage Area: 23.1 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	122	2.850	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	139	0.322	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	278	2.790	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	10	0.034	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	6	0.026	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	8	0.023	Moderately Intolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	3	0.012	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	52	0.240	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	447	1.765	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	0.015	Highly Tolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.030	--	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	5	0.068	Moderately Tolerant	0	---
Totals		<u><u>1073</u></u>	<u><u>8.175</u></u>		<u><u>0</u></u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
Index of Biotic Integrity (IBI) = 26 (Poor)
Modified Index of Well-Being (MIwb) = 6.8 (Fair)
Shannon Diversity Index, no. 1.542
Shannon Diversity Index, wt. 1.435

Euclid Creek at Concrete Structure Upstream of Lakeshore Boulevard

August 28, 2014

River Mile: 1.00

N	717
B	2.919

Euclid Creek Downstream of Lakeshore Boulevard

June 20, 2014

River Mile: 0.55

Collection Method: Longline Electrofishing

Drainage Area: 23 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	114	4.750	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	1	0.002	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	59	0.766	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	203	0.220	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	1	0.040	--	0	---
43-028	<i>Notropis hudsonius</i> Spottail shiner	1	0.025	Moderately Tolerant	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	1	0.005	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	1	0.005	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	17	0.125	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	2	0.012	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	21	1.735	Highly Tolerant	1	Erosion
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	10	1.250	Highly Tolerant	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	1	0.038	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	8	0.005	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	3	0.030	Highly Tolerant	0	---

Euclid Creek Downstream of Lakeshore Boulevard

June 20, 2014

River Mile: 0.55

77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	11	0.225	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	32	0.392	Moderately Tolerant	0	---
77-014	<i>HYBRID</i> Bluegill X Pumpkinseed	1	0.040	--	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	1	0.555	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	3	0.023	--	0	---
	Totals	<u>491</u>	<u>10.243</u>		<u>1</u>	

*DELT anomalies were observed on	0.20	% of the fish collected.
Index of Biotic Integrity (IBI) =	36	(Marginally Good)
Modified Index of Well-Being (MIwb) =	6.9	(Fair)
Shannon Diversity Index, no.	1.805	
Shannon Diversity Index, wt.	1.741	
N	393	
B	2.283	

Euclid Creek Downstream of Lakeshore Boulevard

August 25, 2014

River Mile: 0.55

Collection Method: Longline Electrofishing

Drainage Area: 23 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-005	<i>Carpiodes cyprinus</i> Central quillback carpsucker	2	0.004	--	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	211	9.950	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	1	0.004	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	130	2.600	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	6	0.019	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	1	0.040	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	5	0.032	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	54	0.152	Moderately Intolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.030	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	47	0.270	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	12	0.129	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	30	1.250	Highly Tolerant	0	---
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	2	0.040	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	2	0.062	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	2	0.034	Moderately Intolerant	0	---

Euclid Creek Downstream of Lakeshore Boulevard

August 25, 2014

River Mile: 0.55

77-006	<i>Micropterus salmoides</i> Largemouth bass	10	0.040	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	2	0.052	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	7	0.165	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	40	0.900	Moderately Tolerant	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	1	2.100	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	3	0.040	--	0	---
	Totals	<u>569</u>	<u>17.913</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	36	(Marginally Good)
Modified Index of Well-Being (MIwb) =	7.0	(Fair)
Shannon Diversity Index, no.	1.944	
Shannon Diversity Index, wt.	1.512	
N	213	
B	5.516	

Euclid Creek Upstream of Villa Angela Drive Bridge

July 10, 2014

River Mile: 0.40

Collection Method: Boat Electroshocking

Drainage Area: 23.2 miles²

Collection Distance: 0.5 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-005	<i>Carpiodes cyprinus</i> Central quillback carpsucker	1	0.003	--	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.210	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	119	4.090	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	54	20.585	Highly Tolerant	2	Erosion & Lesior
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	6	0.038	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	7	0.078	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	3	0.008	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	1	0.005	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	1	0.005	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	9	0.035	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	26	0.257	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	0.265	Highly Tolerant	0	---
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	24	13.408	Highly Tolerant	5	Erosion & Lesion
74-003	<i>Morone americana</i> White perch	1	0.028	--	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	4	0.475	--	0	---

Euclid Creek Upstream of Villa Angela Drive Bridge

July 10, 2014

River Mile: 0.40

77-004	<i>Micropterus dolomieu</i> Smallmouth bass	5	1.110	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	11	1.035	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	4	0.063	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	94	1.525	Moderately Tolerant	0	---
80-003	<i>Perca flavescens</i> Yellow perch	1	0.025	--	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	1	0.010	--	0	---
Totals		<u>375</u>	<u>43.258</u>		<u>7</u>	

*DELT anomalies were observed on	1.87	% of the fish collected.
Index of Biotic Integrity (IBI) =	28	(Poor)
Modified Index of Well-Being (MIwb) =	7.4	(Fair)
Shannon Diversity Index, no.	2.016	
Shannon Diversity Index, wt.	1.426	
N	304	
B	9.442	

Euclid Creek Upstream of Villa Angela Drive Bridge

September 24, 2014

River Mile: 0.40

Collection Method: Boat Electroshocking

Drainage Area: 23.2 miles²

Collection Distance: 0.5 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	36	0.764	--	0	---
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	8	16.445	--	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	77	1.79	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	9	2.364	Highly Tolerant	0	---
43-002	<i>Carassius auratus</i> Goldfish	99	1.55	Highly Tolerant	1	Deformity
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	5	0.092	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	9	0.242	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	2	0.01	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	2	0.012	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	10	0.058	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	28	0.312	--	1	Lesion
47-004	<i>Ictalurus natalis</i> Yellow bullhead	3	0.4	Highly Tolerant	0	---
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	6	0.85	Highly Tolerant	1	Lesion
74-003	<i>Morone americana</i> White perch	8	0.038	--	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	1	0.25	--	0	---

Euclid Creek Upstream of Villa Angela Drive Bridge

September 24, 2014

		River Mile:	0.40			
77-006	<i>Micropterus salmoides</i> Largemouth bass	11	0.35	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	1	0.06	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	24	0.562	Moderately Tolerant	0	---
80-003	<i>Perca flavescens</i> Yellow perch	2	0.022	--	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	2	0.024	--	0	---
	Totals	<u>343</u>	<u>26.195</u>		<u>3</u>	

*DELT anomalies were observed on	0.98	% of the fish collected.
Index of Biotic Integrity (IBI) =	20	(Poor)
Modified Index of Well-Being (MIwb) =	6.8	(Fair)
Shannon Diversity Index, no.	2.229	
Shannon Diversity Index, wt.	1.494	
N	142	
B	3.156	

Euclid Creek East Branch Upstream of Highland Road

6/30/2014

River Mile: 0.25

Collection Method: Longline Electroshocking

Drainage Area: 12.5 miles²

Collection Distance: 0.15 km

Code	Species	Number	Pollution Tolerance	DELT Anomalies #	Description
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	43	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	33	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	11	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	120	--	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	2	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	5	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	17	Moderately Tolerant	0	---
Totals		<u>232</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
Index of Biotic Integrity (IBI) = 32 (Fair)