

Euclid Creek Upstream of St. Clair Avenue
June 21, 2018
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	1	0.002	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	190	0.76	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	135	0.909	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	67	0.444	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	0.008	Highly Tolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	3	0.002	--	0	---
Totals		<u><u>398</u></u>	<u><u>2.131</u></u>		<u><u>0</u></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) = 4.3 (Very Poor)
 Shannon Diversity Index, no. 1.102
 Shannon Diversity Index, wt. 1.109
 N 105
 B 0.669

Euclid Creek Upstream of St. Clair Avenue
October 9, 2018
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 #	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	2	0.036	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	158	0.42	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	150	1.016	Highly Tolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.004	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	20	0.044	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	232	1.05	--	0	---
Totals		<u>563</u>	<u>2.570</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) = 5.5 (Poor)
 Shannon Diversity Index, no. 1.224
 Shannon Diversity Index, wt. 1.168
 N 348
 B 1.575

Euclid Creek Downstream of Lakeshore Boulevard

June 21, 2018

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
40-010	<i>Moxostoma erythrurum</i> Golden redbhorse	1	0.12	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	77	0.252	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	30	0.106	Highly Tolerant	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	86	0.07	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	1	0.001	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	38	0.18	Highly Tolerant	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	4	0.75	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	2	0.14	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	1	0.65	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	10	0.018	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	14	0.4	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	4	0.25	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	19	0.09	--	0	---
Totals		<u>287</u>	<u>3.027</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 30 (Fair)
 Modified Index of Well-Being (MIwb) = 7.1 (Fair)

Euclid Creek Downstream of Lakeshore Boulevard

June 21, 2018

River Mile: 0.55

Shannon Diversity Index, no.	1.875
Shannon Diversity Index, wt.	2.136
N	178.5
B	2.474

Euclid Creek Downstream of Lakeshore Boulevard
October 10, 2018
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
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	1	1.24	--	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	146	1.15	Highly Tolerant	0	---
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	1	0.008	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	3	0.06	Highly Tolerant	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	3	0.009	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	18	0.19	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	1	0.03	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	6	0.49	Highly Tolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.033	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	15	0.195	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	28	0.29	Moderately Tolerant	0	---
80-002	<i>Sander vitreus</i> Walleye	8	0.13	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	14	0.1	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	2	0.01	--	0	---
	Totals	<u>248</u>	<u>3.935</u>		<u>0</u>	

Euclid Creek Downstream of Lakeshore Boulevard

October 10, 2018

River Mile: 0.55

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	28	(Fair)
Modified Index of Well-Being (MIwb) =	5.8	(Poor)
Shannon Diversity Index, no.	1.533	
Shannon Diversity Index, wt.	1.859	
N	106.5	
B	1.181	

Euclid Creek Upstream of Villa Angela Drive Bridge

June 15, 2018

River Mile: 0.40

Collection Method: Boat Electrofishing

Drainage Area: 23.2 miles²

Collection Distance: 0.5 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
15-001	<i>Amia calva</i> Bowfin	2	4.629	--	1	Lesion
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	1	1.3	--	0	---
40-008	<i>Moxostoma anisurum</i> Silver Redhorse	1	0.215	Moderately Intolerant	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	4	1.58	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	4	1.12	Highly Tolerant	0	---
40-018	<i>Minytrema melanops</i> Spotted Sucker	2	1.47	--	0	---
43-001	<i>Cyprinus carpio</i> Common carp	10	18.15	Highly Tolerant	0	---
43-002	<i>Carassius auratus</i> Goldfish	12	4.65	Highly Tolerant	0	---
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	1	0.015	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	2	0.008	Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	5	0.02	Highly Tolerant	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	34	13.55	Highly Tolerant	8	Multiple
74-001	<i>Morone chrysops</i> White bass	1	0.25	--	1	Lesion
77-003	<i>Ambloplites rupestris</i> Northern rockbass	20	5.2	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	5	1.4	Moderately Intolerant	0	---

Euclid Creek Upstream of Villa Angela Drive Bridge

June 15, 2018

River Mile: 0.40

77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	12	0.4	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	18	0.62	Moderately Tolerant	0	---
80-003	<i>Perca flavescens</i> Yellow perch	2	1.2	--	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	1	0.09	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	1	0.01	--	0	---
	Totals	<u>138</u>	<u>55.877</u>		<u>10</u>	

*DELT anomalies were observed on	7.25 % of the fish collected.
Index of Biotic Integrity (IBI) =	26 (Fair)
Modified Index of Well-Being (MIwb) =	8.7 (Marginally Good)
Shannon Diversity Index, no.	2.411
Shannon Diversity Index, wt.	2.029
N	140
B	34.12

Euclid Creek Upstream of Villa Angela Drive Bridge

August 20, 2018

River Mile: 0.40

Collection Method: Boat Electrofishing

Drainage Area: 23.2 miles²

Collection Distance: 0.5 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT #	Anomalies Description
15-001	<i>Amia calva</i> Bowfin	2	6.237	--	0	---
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	5	0.03	--	0	---
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	1	2.25	--	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	74	1.278	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	12	2.16	Highly Tolerant	0	---
43-002	<i>Carassius auratus</i> Goldfish	16	3.36	Highly Tolerant	0	---
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	6	0.05	Highly Tolerant	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	2	0.008	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	10	1.64	Highly Tolerant	0	---
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	19	1.6	Highly Tolerant	0	---
47-006	<i>Ictalurus melas</i> Black bullhead	1	0.31	Moderately Tolerant	0	---
74-003	<i>Morone americana</i> White perch	1	0.004	--	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	1	0.04	--	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	17	1.45	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	2	0.03	Highly Tolerant	0	---

Euclid Creek Upstream of Villa Angela Drive Bridge

August 20, 2018

River Mile: 0.40

77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	6	0.15	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	24	0.75	Moderately Tolerant	0	---
80-002	<i>Sander vitreus</i> Walleye	1	0.015	--	1	Lesion
80-003	<i>Perca flavescens</i> Yellow perch	14	0.2	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	1	0.004	Moderately Intolerant	0	---
Totals		<u>215</u>	<u>21.566</u>		<u>1</u>	

*DELT anomalies were observed on	0.47 % of the fish collected.
Index of Biotic Integrity (IBI) =	28 (Fair)
Modified Index of Well-Being (MIwb) =	8.4 (Marginally Good)
Shannon Diversity Index, no.	2.27
Shannon Diversity Index, wt.	2.164
N	148
B	18.39