



Euclid Creek Downstream of Mayfield Road
7/10/2023 11:15:00 AM
River Mile: 6.90
Collection Method: Longline Electrofishing
Drainage Area: 3.90 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies #	Description
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	158	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	386	Tolerant	0	--
Totals		544		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 20 (Poor)



Euclid Creek Downstream of Mayfield Road
9/5/2023 1:00:00 PM
River Mile: 6.90
Collection Method: Longline Electrofishing
Drainage Area: 3.90 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies #	Description
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	223	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	733	Tolerant	0	--
Totals		956		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 20 (Poor)



Euclid Creek Main Branch @ Highland Picnic Area Site 2
8/3/2023 3:15:00 PM
River Mile: 3.30
Collection Method: Longline Electrofishing
Drainage Area: 9.10 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	71	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	242	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	385	Tolerant	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	4	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	1	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	374	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	Tolerant	0	--
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	1	Tolerant	0	--
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	--	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	9	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	33	Moderately Tolerant	0	--
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	Moderately Tolerant	0	--
Totals		1125		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 30 (Fair)



Euclid Creek Main Branch @ Highland Picnic Area Site 2
9/5/2023 9:35:00 AM
River Mile: 3.30
Collection Method: Longline Electrofishing
Drainage Area: 9.10 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	19	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	112	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	66	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	10	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	116	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	Tolerant	0	--
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	1	Tolerant	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	1	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	3	Moderately Tolerant	0	--
Totals		329		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 30 (Fair)



Euclid Creek Upstream of Highland Road (Site 1.5)
8/29/2023 10:20:00 AM
River Mile: 2.70
Collection Method: Longline Electrofishing
Drainage Area: 21.4 square miles
0.20 km
IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	1	0.32	--	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	37	0.41	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	164	0.4380	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	275	1.6140	Tolerant	2	Fin Erosion
43-043	<i>Pimephales notatus</i> Bluntnose minnow	40	0.1050	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	375	2.62	--	0	--
Totals		892	5.5070		2	

*DELT anomalies were observed on = 0.2 % of the fish collected
 ~ ~
 Index of Biotic Integrity (IBI) = 22 (Poor)
 Modified Index of Well-Being (MIwb) = 6.5 (Fair)
 Shannon Diversity Index, no. 1.32
 Shannon Diversity Index, wt. 1.35
 N = 562.50
 B = 3.93



Euclid Creek Upstream of Highland Road (Site 1.5)

9/27/2023 11:40:00 AM

River Mile: 2.70

Collection Method: Longline Electrofishing

Drainage Area: 21.4 square miles

0.20 km

IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	25	0.3550	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	234	0.61	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	179	0.6680	Tolerant	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	3	0.0050	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	24	0.0880	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	295	1.4870	--	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	3	0.0030	Moderately Tolerant	0	--
Totals		763	3.2160		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 24 (Poor)

Modified Index of Well-Being (MIwb) = 6.1 (Fair)

Shannon Diversity Index, no. 1.33

Shannon Diversity Index, wt. 1.36

N = 447

B = 2.24



Euclid Creek Upstream of St. Clair Ave Bridge
8/3/2023 12:00:00 PM
River Mile: 1.65
Collection Method: Longline Electrofishing
Drainage Area: 21.8 square miles
0.20 km
IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	2	0.34	--	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	59	0.48	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	292	0.94	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	329	2.11	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	19	0.0720	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	281	1.55	--	0	--
Totals		982	5.4920		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 24 (Poor)

Modified Index of Well-Being (MIwb) = 6.3 (Fair)

Shannon Diversity Index, no. 1.34

Shannon Diversity Index, wt. 1.47

N = 421.50

B = 2.33



Euclid Creek Upstream of St. Clair Ave Bridge
9/27/2023 9:50:00 AM
River Mile: 1.65
Collection Method: Longline Electrofishing
Drainage Area: 21.8 square miles
0.20 km
IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	8	0.10	Tolerant	0	--
43-002	<i>Carassius auratus</i> Goldfish	1	0.0550	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	341	1.0030	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	106	0.4960	Tolerant	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.0020	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	18	0.12	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	210	1.1720	--	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	1	0.0010	Moderately Tolerant	0	--
Totals		686	2.9490		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 26 (Poor)

Modified Index of Well-Being (MIwb) = 5.7 (Poor)

Shannon Diversity Index, no. 1.17

Shannon Diversity Index, wt. 1.36

N = 316.50

B = 1.76



Euclid Creek Upstream of Lake Shore
7/14/2023 3:00:00 PM
River Mile: 1.00
Collection Method: Roller Pram Electrofishing
Drainage Area: 23.10 square miles
0.22 km
IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	1	0.0050	--	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	63	0.4340	Tolerant	0	--
43-001	<i>Cyprinus carpio</i> Common carp	1	0.0040	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	77	0.1150	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	69	0.1850	Tolerant	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	1	0.0030	Moderately Intolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	54	0.0940	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	809	1.1180	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	9	0.7320	Tolerant	0	--
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	5	1	Tolerant	0	--
77-006	<i>Micropterus salmoides</i> Largemouth bass	4	0.0210	--	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	1	0.0030	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	3	0.0390	Moderately Tolerant	0	--
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.01	Moderately Tolerant	0	--
87-001	<i>Neogobius melanostomus</i> Round goby	2	0.0150	--	0	--
Totals		1100	3.7780		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 32 (Fair)



Euclid Creek Upstream of Lake Shore
7/14/2023 3:00:00 PM
River Mile: 1.00
Collection Method: Roller Pram Electrofishing
Drainage Area: 23.10 square miles
0.22 km
IBI Type: Wading

Modified Index of Well-Being (MIwb) = 6.6 (Fair)

Shannon Diversity Index, no. 1.04

Shannon Diversity Index, wt. 1.77

N = 1115.45

B = 1.62



Euclid Creek Upstream of Lake Shore
9/20/2023 2:20:00 PM
River Mile: 1.00
Collection Method: Longline Electrofishing
Drainage Area: 23.10 square miles
0.20 km
IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	3	0.03	--	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	142	0.5280	Tolerant	0	--
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	1	0.0020	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	413	0.64	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	358	0.6680	Tolerant	0	--
43-022	<i>Notropis rubellus</i> Rosyface shiner	13	0.0270	Intolerant	0	--
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	1	0.0030	--	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	68	0.1620	Moderately Intolerant	0	--
43-035	<i>Notropis volucellus</i> Mimic shiner	156	0.2450	Intolerant	0	--
43-039	<i>Ericymba buccata</i> Silverjaw minnow	75	0.2010	--	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	35	0.0750	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	251	0.6420	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	1846	4.4010	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	0.02	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	2	0.0040	Moderately Tolerant	0	--
80-011	<i>Percina caprodes</i> Northern logperch darter	2	0.0080	Moderately Intolerant	0	--
87-001	<i>Neogobius melanostomus</i> Round goby	23	0.10	--	0	--



Euclid Creek Upstream of Lake Shore
9/20/2023 2:20:00 PM
River Mile: 1.00
Collection Method: Longline Electrofishing
Drainage Area: 23.10 square miles
0.20 km
IBI Type: Wading

Totals	3390	7.7560	0
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*DELTA anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 30 (Fair)

Modified Index of Well-Being (MIwb) = 8.2 (Good)

Shannon Diversity Index, no. 1.58

Shannon Diversity Index, wt. 1.59

N = 3244.50

B = 7.58



Euclid Creek Upstream of Villa Angela Bridge

6/23/2023 11:55:00 AM

River Mile: 0.40

Collection Method: Boat Electrofishing

Drainage Area: 23.2 square miles

0.50 km

IBI Type: Boat

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	6	0.75	--	0	--
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	10	1.60	Moderately Intolerant	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	105	0.7770	Tolerant	1	Lesions
43-001	<i>Cyprinus carpio</i> Common carp	162	15.5260	Tolerant	0	--
43-002	<i>Carassius auratus</i> Goldfish	55	3.8750	Tolerant	3	Deformities Fin Erosion
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	2	0.03	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	14	0.0980	Tolerant	0	--
43-020	<i>Notropis atherinoides</i> Common emerald shiner	42	0.0620	--	0	--
43-025	<i>Notropis chrysocephalus</i> Striped shiner	1	0.0510	--	0	--
43-026	<i>Notropis cornutus</i> Common shiner	1	0.0150	--	0	--
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	5	0.0460	--	0	--
43-035	<i>Notropis volucellus</i> Mimic shiner	33	0.0460	Intolerant	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.0040	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	25	0.1120	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	16	0.0180	--	0	--
47-002	<i>Ictalurus punctatus</i> Channel catfish	1	1.30	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	24	4.47	Tolerant	1	Lesions



Euclid Creek Upstream of Villa Angela Bridge
6/23/2023 11:55:00 AM
River Mile: 0.40
Collection Method: Boat Electrofishing
Drainage Area: 23.2 square miles
0.50 km
IBI Type: Boat

47-005	<i>Ictalurus nebulosus</i> Brown bullhead	53	21.96	Tolerant	5	Fin Erosion Lesions
74-001	<i>Morone chrysops</i> White bass	19	1.0860	--	0	--
77-003	<i>Ambloplites rupestris</i> Northern rockbass	1	0.24	--	0	--
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	10	4.94	Moderately Intolerant	0	--
77-006	<i>Micropterus salmoides</i> Largemouth bass	6	2.9350	--	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	1	0.04	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	41	1.65	Moderately Tolerant	0	--
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	29	0.88	Moderately Tolerant	0	--
77-016	<i>HYBRID</i> Green sunfish X Pumpkinseed sunfish	1	0.0220	--	0	--
80-002	<i>Sander vitreus</i> Walleye	1	0.11	--	0	--
80-003	<i>Perca flavescens</i> Yellow perch	8	0.19	--	0	--
80-011	<i>Percina caprodes</i> Northern logperch darter	2	0.0250	Moderately Intolerant	0	--
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	3	3.50	Moderately Tolerant	0	--
87-001	<i>Neogobius melanostomus</i> Round goby	4	0.02	--	0	--
Totals		682	66.3780		10	

*DELT anomalies were observed on = $\frac{1.4}{---$ % of the fish collected

Index of Biotic Integrity (IBI) = 30 (Fair)

Modified Index of Well-Being (MIwb) = 9.7 (Exceptional)

Shannon Diversity Index, no. 2.62

Shannon Diversity Index, wt. 2.14

N = 470



Euclid Creek Upstream of Villa Angela Bridge
6/23/2023 11:55:00 AM
River Mile: 0.40
Collection Method: Boat Electrofishing
Drainage Area: 23.2 square miles
0.50 km
IBI Type: Boat

B = 38.89



Euclid Creek Downstream of Lake Shore Blvd (Site 0.5)
7/14/2023 12:00:00 PM
River Mile: 0.55
Collection Method: Roller Pram Electrofishing
Drainage Area: 23.1 square miles
0.20 km
IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
40-005	<i>Carpiodes cyprinus</i> Central quillback carpsucker	1	0.0020	--	0	--
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.04	Moderately Intolerant	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	77	0.19	Tolerant	0	--
43-001	<i>Cyprinus carpio</i> Common carp	2	0.01	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	27	0.02	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	77	0.3120	Tolerant	0	--
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	1	0.0030	--	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	1	0.0020	Moderately Intolerant	0	--
43-035	<i>Notropis volucellus</i> Mimic shiner	7	0.0120	Intolerant	0	--
43-039	<i>Ericymba buccata</i> Silverjaw minnow	10	0.0180	--	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	2	0.0050	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	80	0.1580	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	233	0.18	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	14	2.40	Tolerant	0	--
77-006	<i>Micropterus salmoides</i> Largemouth bass	5	0.0210	--	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	4	0.06	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	8	0.07	Moderately Tolerant	0	--



Euclid Creek Downstream of Lake Shore Blvd (Site 0.5)
7/14/2023 12:00:00 PM
River Mile: 0.55
Collection Method: Roller Pram Electrofishing
Drainage Area: 23.1 square miles
0.20 km
IBI Type: Wading

77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	0.0340	Moderately Tolerant	0	--
80-003	<i>Perca flavescens</i> Yellow perch	2	0.0040	--	0	--
80-011	<i>Percina caprodes</i> Northern logperch darter	1	0.0030	Moderately Intolerant	0	--
87-001	<i>Neogobius melanostomus</i> Round goby	25	0.1280	--	0	--
Totals		580	3.6720		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 34 (Marginally Good)

Modified Index of Well-Being (MIwb) = 6.1 (Fair)

Shannon Diversity Index, no. 1.93

Shannon Diversity Index, wt. 1.43

N = 408

B = 0.58



Euclid Creek Downstream of Lake Shore Blvd (Site 0.5)
9/20/2023 10:20:00 AM
River Mile: 0.55
Collection Method: Longline Electrofishing
Drainage Area: 23.1 square miles
0.20 km
IBI Type: Wading

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	3	1.7310	--	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	219	1.4310	Tolerant	0	--
43-001	<i>Cyprinus carpio</i> Common carp	3	0.0620	Tolerant	0	--
43-002	<i>Carassius auratus</i> Goldfish	2	0.01	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	30	0.0770	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	284	1.2040	Tolerant	0	--
43-020	<i>Notropis atherinoides</i> Common emerald shiner	1	0.0050	--	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	35	0.0550	Moderately Intolerant	0	--
43-035	<i>Notropis volucellus</i> Mimic shiner	247	0.4120	Intolerant	0	--
43-039	<i>Ericymba buccata</i> Silverjaw minnow	4	0.0080	--	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	3	0.0060	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	226	0.7460	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	78	0.4960	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	15	2.24	Tolerant	0	--
74-003	<i>Morone americana</i> White perch	1	0.0060	--	0	--
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	1	0.0350	Moderately Intolerant	0	--
77-006	<i>Micropterus salmoides</i> Largemouth bass	5	0.10	--	0	--



Euclid Creek Downstream of Lake Shore Blvd (Site 0.5)
9/20/2023 10:20:00 AM
River Mile: 0.55
Collection Method: Longline Electrofishing
Drainage Area: 23.1 square miles
0.20 km
IBI Type: Wading

77-008	<i>Lepomis cyanellus</i> Green sunfish	1	0.02	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	10	0.14	Moderately Tolerant	0	--
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	16	0.22	Moderately Tolerant	0	--
80-011	<i>Percina caprodes</i> Northern logperch darter	8	0.07	Moderately Intolerant	0	--
87-001	<i>Neogobius melanostomus</i> Round goby	22	0.0770	--	0	--
Totals		1214	9.1510		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 26 (Poor)

Modified Index of Well-Being (MIwb) = 7.8 (Marginally Good)

Shannon Diversity Index, no. 2.03

Shannon Diversity Index, wt. 2.17

N = 607.50

B = 2.31



Euclid Creek Upstream of Villa Angela Bridge
9/8/2023 11:20:00 AM
River Mile: 0.40
Collection Method: Longline Electrofishing
Drainage Area: 23.2 square miles
0.50 km
IBI Type: Boat

Code	Species	No.	Weight (kg)	Pollution Tolerance	DELT Anomalies	
					#	Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	2	4.99	--	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	178	1.18	Tolerant	0	--
43-001	<i>Cyprinus carpio</i> Common carp	3	0.0630	Tolerant	0	--
43-002	<i>Carassius auratus</i> Goldfish	24	0.37	Tolerant	1	Tumors
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	2	0.0080	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	29	0.20	Tolerant	0	--
43-020	<i>Notropis atherinoides</i> Common emerald shiner	1	0.01	--	0	--
43-025	<i>Notropis chrysocephalus</i> Striped shiner	5	0.12	--	0	--
43-026	<i>Notropis cornutus</i> Common shiner	2	0.01	--	0	--
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	3	0.0120	--	0	--
43-034	<i>Notropis stramineus</i> Sand shiner	3	0.0050	Moderately Intolerant	0	--
43-035	<i>Notropis volucellus</i> Mimic shiner	48	0.06	Intolerant	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.0020	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	107	0.3830	Tolerant	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	14	2.48	Tolerant	1	Lesions
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	7	2.60	Tolerant	1	Lesions
77-003	<i>Ambloplites rupestris</i> Northern rockbass	5	0.75	--	0	--



Euclid Creek Upstream of Villa Angela Bridge
9/8/2023 11:20:00 AM
River Mile: 0.40
Collection Method: Longline Electrofishing
Drainage Area: 23.2 square miles
0.50 km
IBI Type: Boat

77-004	<i>Micropterus dolomieu</i> Smallmouth bass	1	0.03	Moderately Intolerant	0	--
77-006	<i>Micropterus salmoides</i> Largemouth bass	3	0.06	--	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	2	0.07	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	4	0.06	Moderately Tolerant	0	--
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	15	0.35	Moderately Tolerant	0	--
80-003	<i>Perca flavescens</i> Yellow perch	2	0.1120	--	0	--
80-011	<i>Percina caprodes</i> Northern logperch darter	3	0.04	Moderately Intolerant	0	--
Totals		464	13.9650		3	

*DELT anomalies were observed on = 0.6 % of the fish collected
 Index of Biotic Integrity (IBI) = 24 (Poor)
 Modified Index of Well-Being (MIwb) = 7.2 (Fair)
 Shannon Diversity Index, no. 2.01
 Shannon Diversity Index, wt. 1.96
 N = 190
 B = 3.24



Unnamed Tributary to Euclid Creek MB @ RM 5.50
 Upstream of Richmond Road
 8/28/2023 10:10:00 AM
 River Mile: 1.50
 Collection Method: Longline Electrofishing
 Drainage Area: 1.20 square miles
 0.15 km
 IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
43-013	<i>Semotilus atromaculatus</i> Creek chub	159	Tolerant	16	Lesions Tumors
43-042	<i>Pimephales promelas</i> Northern fathead minnow	23	Tolerant	0	--
Totals		182		16	

*DELT anomalies were observed on = 8.7 % of the fish collected

Index of Biotic Integrity (IBI) = 16 (Very Poor)



Unnamed Tributary to Euclid Creek MB @ RM 5.50
Upstream of Richmond Road
10/11/2023 1:15:00 PM
River Mile: 1.50
Collection Method: Longline Electrofishing
Drainage Area: 1.20 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies #	Description
43-002	<i>Carassius auratus</i> Goldfish	1	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	232	Tolerant	0	--
43-042	<i>Pimephales promelas</i> Northern fathead minnow	14	Tolerant	0	--
Totals		247		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 22 (Poor)



Euclid Creek East Branch Downstream of Richmond Road
8/28/2023 1:00:00 PM
River Mile: 2.80
Collection Method: Longline Electrofishing
Drainage Area: 7.05 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	81	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	192	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	277	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	9	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	1119	--	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	3	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	1	Moderately Tolerant	0	--
Totals		1682		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 36 (Marginally Good)



Euclid Creek East Branch Downstream of Richmond Road
10/11/2023 10:35:00 AM
River Mile: 2.80
Collection Method: Longline Electrofishing
Drainage Area: 7.05 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	28	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	117	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	196	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	1	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	127	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	Tolerant	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	1	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	3	Moderately Tolerant	0	--
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	Moderately Tolerant	0	--
Totals		476		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 28 (Fair)



Euclid Creek East Branch Upstream of Former Dam
8/29/2023 2:10:00 PM
River Mile: 0.25
Collection Method: Longline Electrofishing
Drainage Area: 12.5 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	12	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	85	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	126	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	87	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	386	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	7	Tolerant	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	10	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	2	Moderately Tolerant	0	--
Totals		715		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 32 (Fair)



Euclid Creek East Branch Upstream of Former Dam
10/10/2023 10:40:00 AM
River Mile: 0.25
Collection Method: Longline Electrofishing
Drainage Area: 12.5 square miles
0.15 km
IBI Type: Headwaters

Code	Species	No.	Pollution Tolerance	DELT Anomalies	
				#	Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	1	--	0	--
40-016	<i>Catostomus commersonii</i> Common white sucker	2	Tolerant	0	--
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	236	Tolerant	0	--
43-013	<i>Semotilus atromaculatus</i> Creek chub	46	Tolerant	0	--
43-043	<i>Pimephales notatus</i> Bluntnose minnow	74	Tolerant	0	--
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	243	--	0	--
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	Tolerant	0	--
77-008	<i>Lepomis cyanellus</i> Green sunfish	9	Tolerant	0	--
77-009	<i>Lepomis macrochirus</i> Bluegill sunfish	6	Moderately Tolerant	0	--
Totals		618		0	

*DELT anomalies were observed on = 0 % of the fish collected

Index of Biotic Integrity (IBI) = 30 (Fair)