

**Rocky River Upstream of Mastick Road**  
**June 22, 2017**  
**River Mile: 8.30**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 282 miles<sup>2</sup>**  
**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>#</b>	<b>DELT Anomalies Description</b>
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.098	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.002	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	12	0.042	Highly Tolerant	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	5	0.12	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	40	0.321	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	53	0.11	Moderately Intolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	23	0.07	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	0.06	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	11	0.34	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	9	0.14	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	5	0.13	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	0.005	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	9	0.035	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	13	0.12	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.01	Moderately Tolerant	0	---

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**June 22, 2017**

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80-015	<i>Etheostoma blenniodes</i> Greenside darter	25	0.122	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	4	0.022	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	15	0.18	--	0	---
34-001	<i>Umbra limi</i> Central Mudminnow	1	0.004	Tolerant	0	---
	<b>Totals</b>	<u>231</u>	<u>1.931</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	40	(Good)
Modified Index of Well-Being (MIwb) =	8.2	(Good)
Shannon Diversity Index, no.	2.398	
Shannon Diversity Index, wt.	2.529	
N	286.5	
B	2.412	

**Rocky River Upstream of Mastick Road**  
**August 10, 2017**  
**River Mile: 8.30**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 282 miles<sup>2</sup>**  
**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>#</b>	<b>DELT Anomalies Description</b>
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	7	0.904	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.16	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	5	0.035	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	7	0.015	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	1	0.008	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	36	0.27	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	25	0.152	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	70	0.15	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	3	0.005	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	76	0.346	--	1	Lesion
47-004	<i>Ictalurus natalis</i> Yellow bullhead	10	0.36	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	23	0.415	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	17	0.75	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	14	0.46	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	7	0.1	Highly Tolerant	0	---

## Rocky River Upstream of Mastick Road

August 10, 2017

		River Mile:	8.30			
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	40	0.9	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.02	Moderately Tolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	22	0.14	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	2	0.01	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	31	0.25	--	0	---
Totals		<u>398</u>	<u>5.450</u>		<u>1</u>	

*DELT anomalies were observed on	0.25	% of the fish collected.
Index of Biotic Integrity (IBI) =	42	(Good)
Modified Index of Well-Being (MIwb) =	9.1	(Very Good)
Shannon Diversity Index, no.	2.489	
Shannon Diversity Index, wt.	2.484	
N	511.5	
B	6.81	

**Rocky River Upstream of Hilliard Boulevard**

**June 22, 2017**

**River Mile: 2.50**

**Collection Method: Longline Electrofishing**

**Drainage Area: 292 miles<sup>2</sup>**

**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>#</b>	<b>DELT Anomalies Description</b>
10-004	<i>Lepisosteus osseus</i> Longnose Gar	1	0.003	--	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	2	0.084	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	18	0.348	Highly Tolerant	0	---
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	1	0.01	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	1	0.003	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	3	0.048	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	46	0.118	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	20	0.042	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	4	0.035	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	30	0.238	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	12	0.34	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	10	0.275	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	32	0.62	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	4	0.572	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	3	0.015	--	0	---

**Rocky River Upstream of Hilliard Boulevard**

**June 22, 2017**

**River Mile: 2.50**

77-008	<i>Lepomis cyanellus</i> Green sunfish	18	0.14	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	69	0.42	Moderately Tolerant	0	---
77-016	<i>HYBRID</i> Green SF X Pumpkinseed	1	0.018	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	16	0.2	Moderately Intolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	26	0.13	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	21	0.204	--	0	---
	<b>Totals</b>	<u><b>338</b></u>	<u><b>3.863</b></u>		<u><b>0</b></u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	40	(Good)
Modified Index of Well-Being (MIwb) =	8.8	(Good)
Shannon Diversity Index, no.	2.539	
Shannon Diversity Index, wt.	2.56	
N	393	
B	4.148	

**Rocky River Upstream of Hilliard Boulevard**

**August 3, 2017**

**River Mile: 2.50**

**Collection Method: Longline Electrofishing**

**Drainage Area: 292 miles<sup>2</sup>**

**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>#</b>	<b>DELT Anomalies Description</b>
40-005	<i>Carpiodes cyprinus</i> Central quillback carpsucker	15	0.036	--	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.2	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	26	1.162	Highly Tolerant	0	---
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	2	0.033	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	16	0.036	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	4	0.008	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	12	0.034	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	57	0.161	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	59	0.237	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	150	0.201	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	7	0.016	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	35	0.056	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	86	0.306	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	3	2.131	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	9	0.04	Highly Tolerant	0	---

## Rocky River Upstream of Hilliard Boulevard

August 3, 2017

		River Mile:	2.50			
47-008	<i>Noturus flavus</i> Stonecat Madtom	30	0.68	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	40	1.2	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	9	0.49	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	4	0.018	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	15	0.305	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	93	0.7	Moderately Tolerant	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	11	0.15	Moderately Intolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	2	0.008	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	22	0.12	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	8	0.02	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	88	0.316	--	0	---
Totals		<u>804</u>	<u>8.664</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	48	(Very Good)
Modified Index of Well-Being (MIwb) =	9.7	(Exceptional)
Shannon Diversity Index, no.	2.689	
Shannon Diversity Index, wt.	2.484	
N	919.5	
B	10.07	