

ICI METRICS AND SCORES FOR CUYAHOGA RIVER SAMPLING LOCATIONS, SEPTEMBER 2007.

Cuyahoga River River Mile 7.00 09/05/07

Cuyahoga River River Mile 7.90 09/05/07

Cuyahoga River River Mile 10.10 09/04/07

Cuyahoga River River Mile 10.30 09/05/07

Cuyahoga River River Mile 10.75 09/05/07

Cuyahoga River River Mile 11.30 09/05/07

Cuyahoga River River Mile 12.10A 09/04/07

Cuyahoga River River Mile 12.10B 09/25/07

Cuyahoga River River Mile 16.20 09/04/07

L O C A T I O N	M	D R A G G I N G	I C H T H O L O G Y	T O T A L	N U M B E R	T R A N S P A R E N C Y	M A C R O B I O T I C A L	C H L O R O P H Y L A N T	D I S S O L V E D	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	P H O S P H O R U S	
CR RM 7.00	SEP07	786.0	38	408	24	4	3	2	5	4	10	4	1.5	2	60.5	6	2.9	2	17.4	6	0.2	6	6	2
CR RM 7.90	SEP07	749.0	36	374	21	2	3	2	3	4	10	4	4.0	2	71.9	6	3.5	2	8.6	6	1.1	6	6	2
CR RM 10.10	SEP07	744.0	36	2,412	26	4	3	2	4	4	14	6	0.3	2	64.5	6	3.3	2	23.2	4	0.5	6	4	0
CR RM 10.30	SEP07	744.0	24	106	10	0	0	0	4	4	1	0	0.0	0	80.2	6	0.0	0	4.7	6	0.9	6	8	2
CR RM 10.75	SEP07	743.0	32	934	23	4	1	0	5	4	12	4	0.2	2	46.3	6	5.8	2	36.1	2	1.0	6	6	2
CR RM 11.30	SEP07	730.0	34	1,570	26	4	2	0	5	4	10	4	3.2	2	65.1	6	2.0	2	22.4	4	1.7	6	8	2
CR RM 12.10A	SEP07	710.0	36	1,011	23	4	3	2	3	4	11	4	1.5	2	65.9	6	2.0	2	16.4	6	0.3	6	4	0
CR RM 12.10B	SEP07	710.0	34	3,912	32	4	3	2	5	4	15	6	25.9	4	47.1	6	0.2	2	20.6	4	7.4	0	7	2
CR RM 16.20	SEP07	696.0	34	427	15	2	1	0	6	6	5	2	0.2	2	87.4	6	0.7	2	2.1	6	0.0	6	8	2

Cuyahoga River River Mile 7.00

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (RM 7.00), SEPTEMBER 5, 2007.

TAXA	SEPTEMBER			
	HESTER		QUAL	
	#	%	#	%
Plumatella	1	0.25	--	--
Oligochaeta	1	0.25	2	5.41
Mooreobdella microstoma	3	0.74	--	--
Hydracarina	--	--	1	2.70
Baetis intercalaris	3	0.74	3	8.11
Maccaffertium integrum	--	--	1	2.70
Maccaffertium terminatum	1	0.25	1	2.70
Tricorythodes	2	0.49	--	--
Cheumatopsyche	107	26.23	3	8.11
Hydropsyche orris	27	6.62	--	--
Hydropsyche dicantha	1	0.25	--	--
Ceratopsyche morosa	90	22.06	8	21.62
Ceratopsyche sparna	22	5.39	2	5.41
Ancyronyx variegata	1	0.25	--	--
Macronychus glabratus	67	16.42	--	--
Stenelmis	4	0.98	4	10.81
Thienemannimyia grp.	3	0.74	3	8.11
Cricotopus tremulus grp.	--	--	1	2.70
Cricotopus bicinctus grp.	--	--	1	2.70
Nanocladius distinctus	--	--	1	2.70
Parametricnemus	1	0.25	--	--
Tvetenia discoloripes grp.	2	0.49	--	--
Glyptotendipes	5	1.23	--	--
Parachironomus	1	0.25	--	--
Polypedilum flavum	46	11.27	3	8.11
Polypedilum scalaenum grp.	--	--	1	2.70
Rheotanytarsus	10	2.45	--	--
Tanytarsus glabrescens grp.	2	0.49	--	--
Simulium	7	1.72	2	5.41
Hemerodromia	1	0.25	--	--
TOTAL	408	100.00	37	100.00
TOTAL TAXA	24		16	

Cuyahoga River River Mile 7.90

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (RM7.90), SEPTEMBER 5, 2007.

TAXA	SEPTEMBER			
	HESTER		QUAL	
	#	%	#	%
Plumatella	1	0.27	--	--
Oligochaeta	--	--	1	3.23
Caecidotea	--	--	1	3.23
Gammarus	8	2.14	2	6.45
Orconectes	--	--	1	3.23
Baetis intercalaris	--	--	1	3.23
Baetis flavistriga	--	--	1	3.23
Maccaffertium integrum	1	0.27	1	3.23
Maccaffertium terminatum	11	2.94	2	6.45
Tricorythodes	3	0.80	1	3.23
Argia	--	--	1	3.23
Rhagovelia	--	--	1	3.23
Cheumatopsyche	193	51.60	14	45.16
Hydropsyche orris	21	5.61	--	--
Ceratopsyche morosa	55	14.71	--	--
Ancyronyx variegata	5	1.34	--	--
Macronychus glabratus	38	10.16	--	--
Stenelmis	2	0.53	--	--
Thienemannimyia grp.	9	2.41	2	6.45
Tvetenia discoloripes grp.	2	0.53	--	--
Glyptotendipes	1	0.27	--	--
Parachironomus	1	0.27	--	--
Polypedilum fallax grp.	4	1.07	--	--
Polypedilum flavum	4	1.07	1	3.23
Polypedilum scalaenum grp.	--	--	1	3.23
Stenochironomus	2	0.53	--	--
Paratanytarsus	1	0.27	--	--
Rheotanytarsus	8	2.14	--	--
Tanytarsus glabrescens grp.	4	1.07	--	--
TOTAL	374	100.00	31	100.00
TOTAL TAXA	21		15	

Cuyahoga River River Mile 10.10

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (RM10.10), SEPTEMBER 4, 2007.

TAXA	SEPTEMBER			
	HESTER		QUAL	
	#	%	#	%
Oligochaeta	1	0.04	--	--
Caecidotea	1	0.04	--	--
Baetis intercalaris	6	0.25	3	10.34
Maccaffertium terminatum	1	0.04	2	6.90
Tricorythodes	1	0.04	--	--
Cheumatopsyche	557	23.09	3	10.34
Hydropsyche orris	48	1.99	--	--
Ceratopsyche morosa	679	28.15	3	10.34
Ceratopsyche sparna	271	11.24	--	--
Ancyronyx variegata	53	2.20	--	--
Macronychus glabratus	136	5.64	--	--
Stenelmis	20	0.83	4	13.79
Cricotopus bicinctus grp.	--	--	1	3.45
Parametricnemus	4	0.17	--	--
Rheocricotopus robacki	4	0.17	--	--
Tvetenia discoloripes grp.	24	1.00	1	3.45
Cryptochironomus	--	--	2	6.90
Glyptotendipes	4	0.17	--	--
Microtendipes	8	0.33	--	--
Polypedilum flavum	324	13.43	4	13.79
Polypedilum illinoense	12	0.50	2	6.90
Polypedilum scalaenum grp.	8	0.33	1	3.45
Stenochironomus	4	0.17	--	--
Paratanytarsus	4	0.17	--	--
Rheotanytarsus	72	2.99	--	--
Tanytarsus glabrescens grp.	4	0.17	--	--
Simulium	150	6.22	2	6.90
Hemerodromia	16	0.66	--	--
Corbicula fluminea	--	--	1	3.45
TOTAL	2412	100.00	29	100.00
TOTAL TAXA	26		13	

Cuyahoga River River Mile 10.30

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (RML0.30), SEPTEMBER 5, 2007.

TAXA	SEPTEMBER			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	--	--	2	3.03
Plumatella	1	0.94	--	--
Oligochaeta	1	0.94	--	--
Gammarus	--	--	2	3.03
Baetis intercalaris	--	--	3	4.55
Baetis flavistriga	--	--	1	1.52
Maccaffertium terminatum	--	--	10	15.15
Tricorythodes	--	--	3	4.55
Calopteryx	--	--	2	3.03
Enallagma	--	--	2	3.03
Rhagovelia	--	--	1	1.52
Sialis	--	--	1	1.52
Cheumatopsyche	47	44.34	15	22.73
Hydropsyche orris	19	17.92	1	1.52
Ceratopsyche morosa	15	14.15	4	6.06
Ceratopsyche sparna	4	3.77	--	--
Nectopsyche candida	--	--	2	3.03
Ancyronyx variegata	1	0.94	2	3.03
Macronychus glabratus	8	7.55	5	7.58
Stenelmis	7	6.60	1	1.52
Thienemannimyia grp.	--	--	2	3.03
Cricotopus bicinctus grp.	--	--	1	1.52
Dicrotendipes neomodestus	--	--	2	3.03
Microtendipes	--	--	1	1.52
Polypedilum flavum	3	2.83	2	3.03
Polypedilum illinoense	--	--	1	1.52
TOTAL	106	100.00	66	100.00
TOTAL TAXA	10		23	

Cuyahoga River River Mile 10.75

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (RML0.75), SEPTEMBER 5, 2007.

TAXA	SEPTEMBER			
	HESTER		QUAL	
	#	%	#	%
Oligochaeta	3	0.32	3	7.14
Hydracarina	8	0.86	2	4.76
Baetis intercalaris	2	0.21	3	7.14
Baetis flavistriga	--	--	1	2.38
Maccaffertium terminatum	--	--	1	2.38
Cheumatopsyche	170	18.20	3	7.14
Hydropsyche depravata grp.	8	0.86	--	--
Hydropsyche orris	32	3.43	--	--
Ceratopsyche morosa	195	20.88	12	28.57
Ceratopsyche sparna	27	2.89	1	2.38
Ancyronyx variegata	26	2.78	--	--
Macronychus glabratus	47	5.03	1	2.38
Stenelmis	36	3.85	6	14.29
Thienemannimyia grp.	16	1.71	--	--
Cricotopus bicinctus grp.	--	--	1	2.38
Tvetenia discoloripes grp.	16	1.71	--	--
Cryptochironomus	--	--	1	2.38
Dicrotendipes neomodestus	2	0.21	--	--
Microtendipes	4	0.43	--	--
Phaenopsectra obediens grp.	2	0.21	--	--
Polypedilum fallax grp.	4	0.43	--	--
Polypedilum flavum	96	10.28	1	2.38
Polypedilum illinoense	2	0.21	--	--
Polypedilum scalaenum grp.	2	0.21	2	4.76
Rheotanytarsus	46	4.93	--	--
Tanytarsus glabrescens grp.	8	0.86	--	--
Simulium	182	19.49	3	7.14
Corbicula fluminea	--	--	1	2.38
TOTAL	934	100.00	42	100.00
TOTAL TAXA	23		16	

Cuyahoga River River Mile 11.30

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (RML1.30), SEPTEMBER 5, 2007.

TAXA	SEPTEMBER			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	1	0.06	3	3.30
Oligochaeta	6	0.38	1	1.10
Mooreobdella microstoma	1	0.06	--	--
Gammarus	1	0.06	8	8.79
Hydracarina	--	--	1	1.10
Baetis intercalaris	37	2.36	5	5.49
Maccaffertium integrum	--	--	1	1.10
Maccaffertium terminatum	13	0.83	3	3.30
Tricorythodes	--	--	13	14.29
Calopteryx	--	--	1	1.10
Hetaerina	--	--	2	2.20
Argia	--	--	1	1.10
Enallagma	--	--	1	1.10
Boyeria vinosa	1	0.06	--	--
Rhagovelia	--	--	2	2.20
Cheumatopsyche	679	43.25	7	7.69
Hydropsyche depravata grp.	1	0.06	--	--
Hydropsyche dicantha	2	0.13	--	--
Ceratopsyche morosa	339	21.59	5	5.49
Ceratopsyche sparna	1	0.06	4	4.40
Nectopsyche candida	--	--	8	8.79
Ancyronyx variegata	5	0.32	2	2.20
Macronychus glabratus	54	3.44	1	1.10
Stenelmis	54	3.44	6	6.59
Thienemannimyia grp.	76	4.84	1	1.10
Cardiocladius	--	--	1	1.10
Tvetenia discoloripes grp.	20	1.27	--	--
Cryptochironomus	8	0.51	1	1.10
Polypedilum fallax grp.	8	0.51	--	--
Polypedilum flavum	176	11.21	2	2.20
Polypedilum illinoense	12	0.76	--	--
Polypedilum scalaenum grp.	32	2.04	--	--
Rheotanytarsus	28	1.78	1	1.10
Tanytarsus glabrescens grp.	4	0.25	--	--
Simulium	5	0.32	2	2.20
Physa	--	--	2	2.20
Heliscma	--	--	4	4.40
Corbicula fluminea	6	0.38	1	1.10
Musculium	--	--	1	1.10
TOTAL	1570	100.00	91	100.00
TOTAL TAXA	26		30	

Cuyahoga River River Mile 12.10

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (RML2.10A), FIRST SET, SEPTEMBER 4, 2007.

TAXA	SEPTEMBER			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	1	0.10	--	--
Oligochaeta	1	0.10	3	4.92
Gammarus	8	0.79	--	--
Baetis intercalaris	10	0.99	9	14.75
Maccaffertium terminatum	4	0.40	--	--
Tricorythodes	1	0.10	--	--
Cheumatopsyche	347	34.32	7	11.48
Ceratopsyche morosa	262	25.91	16	26.23
Ceratopsyche sparna	57	5.64	2	3.28
Ancyronyx variegata	15	1.48	--	--
Macronychus glabratus	102	10.09	1	1.64
Stenelmis	27	2.67	6	9.84
Ablabesmyia mallochi	--	--	1	1.64
Thienemannimyia grp.	10	0.99	1	1.64
Parametricnemus	3	0.30	--	--
Tvetenia discoloripes grp.	6	0.59	--	--
Cryptochironomus	--	--	2	3.28
Microtendipes	2	0.20	--	--
Polypedilum fallax grp.	2	0.20	--	--
Polypedilum flavum	72	7.12	5	8.20
Polypedilum scalaenum grp.	3	0.30	4	6.56
Rheotanytarsus	18	1.78	--	--
Tanytarsus glabrescens grp.	2	0.20	--	--
Simulium	50	4.95	4	6.56
Hemerodromia	8	0.79	--	--
TOTAL	1011	100.00	61	100.00
TOTAL TAXA	23		13	



Cuyahoga River River Mile 12.10

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (RML2.10B), SECOND SET, SEPTEMBER 25, 2007.

TAXA	SEPTEMBER			
	HESTER		QUAL	
	#	%	#	%
Oligochaeta	1	0.03	2	2.50
Mooreobdella microstoma	1	0.03	--	--
Caecidotea	1	0.03	--	--
Gammarus	--	--	2	2.50
Hydracarina	32	0.82	1	1.25
Baetis intercalaris	765	19.56	9	11.25
Baetis flavistriga	--	--	1	1.25
Maccaffertium integrum	1	0.03	--	--
Maccaffertium terminatum	249	6.37	7	8.75
Metrobates	--	--	1	1.25
Nigronia serricornis	1	0.03	--	--
Cheumatopsyche	917	23.44	3	3.75
Hydropsyche depravata grp.	--	--	1	1.25
Hydropsyche orris	16	0.41	--	--
Hydropsyche dicantha	32	0.82	1	1.25
Ceratopsyche morosa	794	20.30	21	26.25
Ceratopsyche sparna	83	2.12	--	--
Ancyronyx variegata	21	0.54	1	1.25
Macronychus glabratus	166	4.24	--	--
Stenelmis	53	1.35	5	6.25
Procladius	--	--	1	1.25
Thienemannimyia grp.	192	4.91	1	1.25
Cardiocladius	8	0.20	--	--
Cricotopus tremulus grp.	--	--	4	5.00
Cricotopus bicinctus grp.	16	0.41	7	8.75
Cricotopus trifascia grp.	--	--	1	1.25
Nanocladius distinctus	32	0.82	--	--
Nanocladius crassicornus/rectinervis	16	0.41	--	--
Parametricnemus	8	0.20	--	--
Rheocricotopus robacki	8	0.20	--	--
Tvetenia discoloripes grp.	16	0.41	--	--
Chironomus	--	--	2	2.50
Glyptotendipes	56	1.43	--	--
Microtendipes	8	0.20	--	--
Phaenopsectra obediens grp.	--	--	2	2.50
Polypedilum fallax grp.	8	0.20	--	--
Polypedilum flavum	128	3.27	--	--
Polypedilum illinoense	232	5.93	1	1.25
Polypedilum scalaenum grp.	40	1.02	1	1.25
Rheotanytarsus	8	0.20	--	--
Simulium	--	--	3	3.75
Corbicula fluminea	3	0.08	2	2.50
TOTAL	3912	100.00	80	100.00
TOTAL TAXA	32		24	

Cuyahoga River River Mile 16.20

TAXA COMPOSITION, NUMBER, AND PERCENT OF ORGANISMS COLLECTED IN THE HESTER-DENDY AND QUALITATIVE SAMPLE AT LOCATION CUYAHOGA RIVER (RM16.20), SEPTEMBER 4, 2007.

TAXA	SEPTEMBER			
	HESTER		QUAL	
	#	%	#	%
Turbellaria	--	--	2	2.25
Plumatella	1	0.23	--	--
Oligochaeta	--	--	2	2.25
Mooreobdella microstoma	--	--	1	1.12
Caecidotea	--	--	2	2.25
Gammarus	--	--	8	8.99
Orconectes	--	--	2	2.25
Baetis intercalaris	--	--	3	3.37
Baetis flavistriga	--	--	1	1.12
Maccaffertium terminatum	1	0.23	2	2.25
Tricorythodes	--	--	7	7.87
Calopteryx	--	--	3	3.37
Hetaerina	--	--	2	2.25
Argia	--	--	1	1.12
Boyeria vinosa	--	--	3	3.37
Metrobates	--	--	1	1.12
Rhagovelia	--	--	2	2.25
Cheumatopsyche	164	38.41	9	10.11
Hydropsyche depravata grp.	15	3.51	--	--
Hydropsyche orris	9	2.11	--	--
Hydropsyche dicantha	2	0.47	--	--
Ceratopsyche morosa	179	41.92	7	7.87
Ceratopsyche sparna	4	0.94	1	1.12
Nectopsyche candida	--	--	4	4.49
Ancyronyx variegata	--	--	1	1.12
Dubiraphia	--	--	2	2.25
Macronychus glabratus	35	8.20	3	3.37
Stenelmis	6	1.41	5	5.62
Thienemannimyia grp.	--	--	3	3.37
Corynoneura	1	0.23	--	--
Thienemanniella	--	--	1	1.12
Cricotopus bicinctus grp.	--	--	1	1.12
Tvetenia discoloripes grp.	3	0.70	--	--
Microtendipes	--	--	2	2.25
Polypedilum flavum	3	0.70	2	2.25
Rheotanytarsus	3	0.70	--	--
Simulium	1	0.23	3	3.37
Antocha	--	--	1	1.12
Hemerodromia	--	--	1	1.12
Ferrissia	--	--	1	1.12
TOTAL	427	100.00	89	100.00
TOTAL TAXA	15		33	