Appendices to:

Biological and Water Quality Study of the Little Miami River and Selected Tributaries

Clark, Greene, Montgomery, Warren,
Clermont, and Hamilton Counties, (Ohio)

Volume 2

OEPA Technical Report MAS/1994-12-11

State of Ohio Environmental Protection Agency
Division of Surface Water
Water Quality Monitoring and Assessment Section
1685 Westbelt Drive
Columbus, OH 43228-3809
and
Nonpoint Source Management Section
1800 WaterMark Drive
Columbus, OH 43266-0149
and
Surface Water Section
Southwest District Office
401 East Fifth Street
Dayton, OH 45402-2911

TABLE OF CONTENTS

Volume 2

Appendix Table A-1. List of spills to the Little Miami River and its tributaries: 1983-1993.

Appendix Table A-2a: Hamilton County MSD Combined Sewer Overflows: number and location.

Appendix Table A-2b: Combined Sewer Overflow data from Hamilton County MSD.

Appendix Table A-2c: Combined Sewer Overflow data from the City of Milford Sewer District.

Appendix Table A-3: NPDES permit violations for dischargers in the Little Miami River basin: 1989-1993.

Appendix Table A-4: Conventional chemical/physical water quality summaries for locations sampled in the Little Miami River basin during 1993.

Appendix Table A-5: Concentrations of organic compounds detected in water samples collected in the Little Miami River study area during 1993.

Appendix Table A-6: Summary of diurnal dissolved oxygen data recorded with Datasonde continuous monitors at 55 locations in the Little Miami River study area during 1993.

Appendix Table A-7: Particle size distribution in sediments collected from the Little Miami River study area in 1993.

Appendix Table A-8a: Sediment concentrations of priority pollutant organic compounds detected in the Little Miami River study area during 1993.

Appendix Table A-8b: Fish tissue results from the Little Miami River during 1993.

Appendix Table A-9: Invertebrate Community Index summaries for sites in the Little Miami River study area in 1993.

Appendix Table A-10: Aquatic macroinvertebrate summaries for sites in the Little Miami River study area in 1993.

Appendix Table A-11: Index of Biotic Integrity and Modified Index of Well-Being scores by date and location for the Little Miami River study area in 1993.

Appendix Table A-12: Total catch summaries for fish sampling locations in the Little Miami River study area in 1993.

Appendix Table A-1. Spills to the Little Miami River and its tributaries: 1983-1993.

DATE	ENTITY	COUNTY	STREAM	MATERIAL	QUANTITY
2-19-83	Consolidated Ceramic	Clinton	First Creek	Phenolic Resin	1000 gal.
3-00-83	Speedway Oil	Clinton	Anderson Cr. Trib.	Fuel Oil	500 gal.
4-02-83	Clermont Manor	Clermont	Shaler Run Trib.	Fuel Oil	600 gal.
4-15-83	Clermont Co.S.D.	Clermont	Hall Run	Sewage	$5x10^6$
4-14-83	Clermont Co.S.D.	Clermont	E.F.L.Miami	Sewage	1410 gal.
5-01-83	Clermont Co.S.D.	Clermont	E.F.L.Miami	Sewage	$1x10^5$ gal.
5-03-83	Clermont Co.S.D.	Clermont	E.F.L.Miami	Sewage	117500 gal.
5-15-83	Clermont Co.S.D.	Clermont	E.F.L.Miami	Sewage	$1.481x10^6$ gal.
5-21-83	S.B.Craig &Son	Brown	"creek"	Fertilizer	6000 gal.
6-06-83	Clermont Co.S.D.	Clermont	E.F.L.Miami	Sewage	231,975 gal.
6-30-83	Waste Away Corp.	Clermont	Stonelick Creek	Trash	10000 Lbs.
12-1-83	Clermont Co. S.D.	Clermont	Happy Hollow Run	Sewage	125,000 gal.
1-00-84	Hamilton Plastics	Warren	Muddy Creek	Hydraulic Fluid	700 gal.
2-01-84	Clermont Co. S.D.	Clermont	Horner Run Creek	Sewage	9000 gal.
2-07-84	Clermont Co. S.D.	Clermont	Har Run	Sewage	500 gal.
2-16-84	Loveland S.T.P.	Clermont	Little Miami	Sewage	500,000 gal
3-05-84	Clermont Co. S.D.	Clermont	Little Miami	Sewage	$1.54x10^6$ gal.
3-13-84	Marathon Oil	Warren	"Ditch"	Gasoline	8300 gal.
3-28-84	Clermont Co. S.D.	Clermont	L.Miami	Sewage	$1.26x10^6$ gal.
4-5-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	$1.8x10^6$ gal.
5-3-84	Clermont Co. S.D.	Clermont	Little Miami	Sewage	762,000 gal.
5-7-84	G.M.- Delco	Montgomery	L.Beaver Creek	Hydraulic Oil	250 gal.
5-20-84	Flo-Lizer	Greene	Grogg Run	Fertilizer	250 gal.
5-20-84	Flo-Lizer	Clinton	M.F.Lees Creek	Fertilizer	600 gal.
6-27-84	Sohigro	Clinton	Wilson Creek Trib.	Pesticide H_20	300 gal.
7-2-84	Mont. East Regional	Montgomery	L.Beaver Creek	Sewage	$6.9x10^5$ gal.
8-8-84	Clermont Co. S.D.	Clermont	Town Run Creek	Sewage	467,000 gal.
8-14-84	Cecos Inter.	Clermont	E.B. Pleasant Run	Diesel	1000 gal.
8-0-84	Tom Hoffman	Hamilton	Duck Creek Trib.	Fuel Oil	200 gal.
8-17-84	G.M.- Delco	Montgomery	L.Beaver Creek	Waste Oil	400 gal.
9-25-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	88800 gal.
9-21-84	G.M.- Delco	Montgomery	L.Beaver Creek	Hydraulic Oil	3900 gal.
9-28-84	Clermont Co. S.D.	Clermont	Salt Run Trib.	Sewage	25,000 gal.
10-20-84	Petroleum Traders	Warren	Dry Run Trib.	Diesel	650 gal.
10-22-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	926,000 gal.
11-0-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	698,000 gal.
11-04-84	Dewine-Hamma Seed	Greene	Yellow Springs Creek	PCNB($C_6Cl_5NO_2$)	20 gal.
11-05-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	883,000 gal.
11-03-84	Joy Acres Trailer Pk.	Warren	Todds Creek	Fuel Oil	275 gal.
11-19-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	273,900 gal
11-28-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	675,000 gal.
12-05-84	C.W. Transport	Warren	L.Miami	Diesel	100 gal.
12-10-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	634,000 gal.
12-21-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	888,000 gal.
12-30-84	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	630,000 gal.
12-31-84	Clermont Co. S.D.	Clermont	Happy Hollow Creek	Sewage	1500 gal.

Appendix Table A-1. Spills to the Little Miami River and its tributaries: 1983-1993, continued.

DATE	ENTITY	COUNTY	STREAM	MATERIAL	QUANTITY
1-16-85	Clermont Co. S.D.	Clermont	L.Miami	Sewage	50,000 gal?
1-21-85	Clermont Co .S.D.	Clermont	E.F.L.Miami	Sewage	600,000 gal.
2-03-85	Clermont Co. S.D.	Clermont	Salt Run Trib.	Sewage	2000 gal.
2-21-85	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	$9x10^5$ gal.
3-11-85	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	$1.8x10^6$ gal.
3-29-85	Mason S.T.P.	Warren	Muddy Creek	Sewage	5000 gal.
3-30-85	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	$5.5x10^6$ gal.
3-29-85	M.S.D.	Hamilton	Little Miami	Sewage	$3x10^6$ gal.
3-31-85	Clermont Co. S.D.	Clermont	E.F.L.Miami	Sewage	753,000 gal.
4-0-85	Clermont Co, S.D.	Clermont	Happy Hollow	Sewage	146,000 gal.
4-20-85	Main Trucking Co.	Warren	Halls Creek	KCO_3	46,000 lbs.
1-23-85	Lykins Oil	Clermont	L.Miami Trib.	Fuel Oil	1200 gal.
5-23-85	Marathon Oil	Clermont	O'Bannon Creek	Gasoline	1400 gal.
6-12-85	Leicht Transfer	Brown	Cloverlick Creek	Diesel Fuel	200 gal.
6-11-85	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	502,000 gal.
6-16-85	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	400,000 gal.
6-16-85	Lykins Oil Co.	Clermont	Ditch	Fertilizer	1000 gal.
7-02-85	Sauls Construction	Clermont	Salt Run	Diesel	400 gal.
7-09-85	Robert Davis	Warren	L.Miami	Diesel	250 gal.
7-22-85	Mason S.T.P.	Warren	L.Muddy Creek	Sewage	100,000 gal.
7-29-85	Totes Inc.	Clermont	L.Miami	Wastewater	24,000 gal.
7-30-85	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	$5x10^6$ gal.
8-01-85	Airborn Express	Clinton	Lytle Creek	Jet "A"	150 gal.
8-31-85	Mason S.T.P.	Warren	Muddy Creek	Sewage	35,000 gal.
9-07-85	Mason	Warren	Muddy Creek	Sewage	$1.5x10^6$ gal.
10-03-85	Franklin Boxboard	Warren	Clark Run	Waste Water	1500 gal.
10-20-85	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	$1x10^6$ gal.
10-20-85	MSD	Hamilton	L. Miami	Sewage	$5x10^5$ gal.
10-30-85	Goshen Board of Ed.	Clermont	O'Bannon Creek	#2 Fuel Oil	1000 gal.
11-23-85	Clermont Co. S. D.	Clermont	Stonelick Creek	Sewage	45,000 gal.
12-01-85	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	746,000 gal.
12-03-85	Montgomery Co S.D.	Montgomery	Big Sugar Creek	Sewage	36,000 gal.
12-11-85	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	$9x10^5$ gal.
12-13-85	Mays-Shedd Sales	Greene	Ditch	Motor Oil	507 gal.
12-16-85	M.S.D.	Hamilton	Swale Valley Creek	Sewage	$4x10^6$ gal.
12-29-85	Sun Chemical Co.	Clermont	L.Miami	Blue Water	200 gal.
2-04-86	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	$8.9x10^5$ gal.
2-17-86	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	358,000 gal.
3-10-86	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	6,000 gal.
3-13-86	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	$1.1x10^6$ gal.
3-12-86	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	$2.64x10^6$ gal.
4-19-86	G.M. Delco	Montgomery	Storm Sewer	Wastewater	3000 gal.
5-6-86	Site Oil	Hamilton	L.Miami	Gasoline	3000 gal.
6-12-86	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	$5.5x10^5$ gal.
6-21-86	Chemical Lehman	Hamilton	Duck Creek	H_2SO_4	120 gal.
7-02-86	Clermont Co. S. D.	Clermont	Poplar Creek	Sewage	338,000 gal.

Appendix Table A-1. Spills to the Little Miami River and its tributaries: 1983-1993, continued.

DATE	ENTITY	COUNTY	STREAM	MATERIAL	QUANTITY
7-15-86	G.M. Delco	Montgomery	L.Beaver Creek	Chrome wastes	120 gal.
8-04-86	E.J.Thomas	Warren	Ditch	PCE/1,1DCE	180 gal.
8-17-86	MSD	Hamilton	L.Miami	Sewage	50,000 gal.
9-03-86	MSD	Hamilton	L.Miami	Sewage	2.25×10^6 gal.
10-04-86	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	1.058×10^6 gal.
10-16-86	Clermont Co. S. D.	Clermont	O'Bannon	Sewage	15,000 gal.
11-22-86	Monroe Pyles Farm	Greene	S.F.Massies Creek	Milk	700 gal.
11-24-86	Clermont Co. S. D.	Clermont	Salt Run	Sewage	112,200 gal.
11-25-86	MSD	Hamilton	L. Miami	Sewage	2×10^5 gal.
11-26-86	Loveland STP	Clermont	O'Bannon Creek	Sewage	4×10^6 gal.
12-07-86	Clermont Co. S. D.	Clermont	Salt Run	Sewage	50,000 gal.
12-03-86	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	1.5×10^6 gal.
12-29-86	Airborn Express	Clinton	Cowan Creek	Snarg	6000 gal.
2-17-87	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	634,000 gal.
2-20-87	HVC Chemical	Butler	Ditch	Na OH	500 gal.
2-24-87	Buehls Seed	Warren	Dry Ditch	Diesel/Fertilizer	593 gal.
2-25-87	Airborn Express	Clinton	Lytle Creek	Urea	450 lb.
3-14-87	Airborn Express	Clinton	Sanitary Sewer	AFFF	1500 gal.
3-13-87	Pepsi Cola	Brown	Sanitary Sewer	H_2SO_4	9000 gal.
3-28-87	Mason STP	Warren	Muddy Creek	Sus. Solids	1.25×10^6 gal.
4-05-87	Std. Oil	Greene	Storm Sewer	Gasoline	100 gal.
4-21-87	Laurel Oaks CDC	Clinton	Indian Run	Manure	1000 gal.
4-21-87	Eastern Regional	Montgomery	L. Beaver Creek	Sewage	375,000 gal.
4-27-87	Cedarville Terra Fert.	Greene	Y.Springs Creek	Fertilizer	100 gal.
5-01-87	John Hardin Farm	Clermont	Ditch	Fertilizer	6100 gal.
5-10-87	Airborn Express	Clinton	Lytle Creek	AFFF	4000 gal.
6-15-87	Melvin Lig Fertilizer	Clinton	Dry Ditch	Metoachlor	674 gal.
7-07-87	Chem Lawn	Hamilton	Sycamore Creek	Fertilizer	1380 gal.
7-12-87	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	20,000 gal.
7-13-87	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	444,000 gal.
7-27-87	GM/Delco	Montgomery	L.Beaver Creek	ZnCl-Plating waste	700 gal.
4-30-87	SohiGro	Greene	Y. Springs Creek	Fertilizer	1000 gal.
9-13-87	Clermont Co. S. D.	Clermont	Poplar Creek	Sewage	1×10^6 gal.
6-00-87	M.Fussnecker	Brown	Sterling Run	Manure	100,000 gal.
10-01-87	M&S Carriers	Warren	Ben Run	Diesel Fuel	300 gal.
10-09-87	Warren Co. S.D.	Warren	Simpson Creek	Sewage	150,000 gal.
10-14-87	MSD	Hamilton	Polk Run	Sewage	1.7×10^6 gal.
10-24-87	U.S. Express	Greene	Ditch	Diesel Fuel	150 gal.
11-08-87	G.M.-Delco	Montgomery	Sanitary Sewer	Cr^{+6}	9000 gal.
11-10-87	R.A.Watson	Hamilton	Storm Sewer	Diesel	100 gal.
12-19-87	Unknown	Clermont	O'Bannon Creek	Fuel Oil	8000 gal.
1-07-88	Clermont Co. S. D.	Clermont	Stonelick Creek	Sewage	1500 gal.
1-19-88	MSD	Hamilton	L.Miami	Sewage	1.8×10^6 gal.
1-19-88	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	1.6×10^5 gal.
1-21-88	ODNR	Clermont	East Fork Lake	Fuel Oil	3000 gal.

Appendix Table A-1. Spills to the Little Miami River and its tributaries: 1983-1993, continued.

DATE	ENTITY	COUNTY	STREAM	MATERIAL	QUANTITY
2-02-88	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	13,000 gal.
2-03-88	Wayne Twp. Trustee	Warren	L.Miami	Gasoline	200 gal.
3-04-88	Clermont Co. S.D.	Clermont	O'Bannon Creek	Sewage	13,000 gal.
3-12-88	Lykins Oil	Greene	Beaver creek	Gasoline	150 gal.
4-13-88	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	25,000 gal.
4-22-88	Shell Oil	Hamilton	Sycamore Creek	Gasoline	1800 gal.
4-25-88	Buckeye Co. Mach.	Greene	Storm Sewer	Fertilizer	200 gal.
5-19-88	Petrol. Traders Co.	Warren	Ditch	Diesel	500 gal.
6-07-88	Diconex	Montgomery	L.Beaver Cr.	Diesel	1800 gal.
6-07-88	Larry Smith Cont.	Warren	L.Muddy Creek	Sewage	$1x10^6$ gal.
5-05-88	MSD	Hamilton	L.Miami	Cl^- Waste water	$1x10^6$ gal.
7-17-88	South Lebanon STP	Warren	L.Miami	Sewage	50,000 gal.
7-25-88	Clermont Co. S. D.	Clermont	Salt Run Trib.	Sewage	$2x10^5$ gal.
7-27-88	Clermont Co. S. D.	Clermont	Salt Run Trib.	Sewage	2000 gal.
9-05-88	O'Bannon STP	Clermont	O'Bannon Creek	Sewage	1500 gal.
9-10-88	Cinn Water Dept.	Hamilton	L.Miami	Charcoal	30,000 lb.
9-10-88	Bench Ward Swim	Montgomery	L.Beaver Creek	Cl^- H_2O	119,520 gal.
9-16-88	Shepherd Chem.	Hamilton	Duck Creek	Waste water As^{+3}	200 gal.
9-20-88	G.M.-Delco	Montgomery	L.Beaver Creek	Chromium	66 lb.
11-03-88	Clermont Co. S. D.	Clermont	Karn Run Trib.	Sewer	5000 gal.
1-12-89	Spartan Express	Clinton	Ditch	Diesel	100 gal.
2-06-89	Milford STP	Clermont	L.Miami	Sewage	51000 gal.
1-25-89	Dr.Logemann	Hamilton	Drain	Fuel Oil	1000 gal.
2-14-89	Larry Rowan	Clermont	Ditch	Fuel Oil	100 gal.
3-16-89	G.M.- Delco	Montgomery	Sanitary Sewer	Cr^{+3} water	30,000 gal.
3-25-89	LMS Trucking	Warren	L.Miami Trib.	Diesel	150 gal.
3-29-89	ABX Sheet Metal	Clinton	Storm Sewer	CB-A202	500 gal.
3-31-89	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	$4.2x10^5$ gal.
4-20-89	Airborn Express	Clinton	Sanitary Sewer	Stripper	400 gal.
4-29-89	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	23,000 gal.
5-02-89	Mike Geis	Greene	Caesar Creek	#2 Fuel Oil	200 gal.
5-24-89	Franklin STP	Warren	Miami River	Sewage	$6x10^5$ gal.
5-00-89	Lamdmark	Clinton	Creek	Fertilizer	1500 gal.
7-18-89	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	$6.5x10^5$ gal.
7-24-89	Cinn. Semi Cond.	Warren	unknown	HCl	1780 lb.
8-17-89	Emro Marketing	Warren	Turtle Creek	Oil	300 gal.
8-22-89	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	$2x10^5$ gal.
11-15-89	Unknown	Clermont	Ditch	Diesel	500 gal.
1-29-90	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	80,000 gal.
2-09-90	Riter Oil	Clermont	unknown	#2 Fuel Oil	100 gal.
2-09-90	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	23,000 gal.
2-16-90	Mid. East Fork STP	Clermont	L. Miami	Sewage	8,000 gal.
2-18-90	Mont.Co. Sewer	Montgomery	Storm Sewer	Sewage	500 gal.
2-18-90	Haydronics	Hamilton	Duck Creek	Chromic Acid	100 gal.
3-04-90	Springboro STP	Warren	Richards Run	Wastewater	3000 gal

Appendix Table A-1. Spills to the Little Miami River and its tributaries: 1983-1993, continued.

DATE	ENTITY	COUNTY	STREAM	MATERIAL	QUANTITY
3-10-90	Hill Station Baptist	Clermont	"creek"	Sewage	300 gal.
3-23-90	Etna Freight	Warren	"ditch"	Diesel	250 gal.
3-30-90	Franklin Fire Dept.	Warren	N.Branch Dick Creek	#2 Fuel Oil	600 gal.
4-03-90	Clarksville Farm Ser.	Clinton	E.F.Todd Creek	Fertilizer	150 gal.
7-10-90	Aberdeen Express	Brown	Storm Sewer	Diesel	100 gal.
9-28-90	G.M.- Delco	Montgomery	L. Beaver Creek	Wastewater	30 Lbs.
10-12-90	Michael Tire	Clermont	Ditch	100 gal.	
5-05-90	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	170 gal.
5-07-90	OMOA	Hamilton	Ditch	"solvent"	100 gal.
5-15-90	MSD	Hamilton	L.Miami	Sewage	?50,000 gal.
5-17-90	ODOT Garage	Clermont	Storm Sewer	Ca^{+2} liquid	2500 gal.
5-17-90	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	730,000 gal.
0-00-90	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	875,000 gal.
6-24-90	Hamilton MSD	Hamilton	Polk Run Creek	Sewage	450,000 gal.
7-05-90	Builder Transport	Clermont	Small Creek	Diesel	150 gal.
7-31-90	Clermont Co. S. D.	Clermont	Trib. to Bear Creek	Sewage	1500 gal.
8-09-90	G.M.- Delco	Montgomery	L.Beaver Creek	Hydraulic Oil	300 gal.
8-16-90	Guillet Sanitation	Clermont	Ditch	Sewage	7000 gal.
10-23-90	Warren Co. S.D.	Warren	Bear Run	Sewage	72,000 gal.
12-06-90	Amold Co./Hazma	Warren	Ditch	Trem Sol	1000 gal.
12-18-90	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	650 GPM.
1-18-91	Warren Co. Sewer	Warren	L.Miami	Sewage	450,000 gal.
1-31-91	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	250,000 gal.
2-06-91	Montgomery Co. STP	Montgomery	Sugar Creek	Sewage	5,000 gal.
2-06-91	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	147,000 gal.
2-22-91	Koogler Suburban	Greene	Sewage	Diesel	500 gal.
3-13-91	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	220,000 gal.
3-26-91	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	124,000 gal.
4-05-91	Mr.Bruce Fadeley	Hamilton	L.Miami	Diesel	165 gal.
0-00-91	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	288,000 gal.
5-00-91	Kutol Prod.	Hamilton	Storm Sewer	Acryllic Acid	200 gal.
5-27-91	Clermont Co. S. D.	Clermont	E. F. L. Miami	Sewage	300 GPM.
6-03-91	Cecos International	Clermont	E.B.Pleasant Run	Runoff	48,600 gal.
6-17-91	MSD	Hamilton	L.Miami Trib.	Sewage	200,000 gal.
7-08-91	MSD	Hamilton	L.Miami Trib	Sewage	1000 gal.
8-23-91	Schneider Truck	Clermont	L.Miami	Diesel	1000 gal.
9-20-91	Greenlon Inc.	Warren	Ditch	Fertilizer	4000 gal.
12-12-91	Airborn Express	Clinton	Cowan Creek	AFFF	3000 gal.
1-09-92	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	1000 gal.
1-21-92	G.M.- Delco	Montgomery	Trib.L.Beaver Creek	Cooling H_2O	3000 gal.
1-20-92	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	15,000 gal.
2-03-92	B.P.Oil/Brandt	Montgomery	Ditch	Gasoline	600 gal.
2-24-92	Duncan Oil	Greene	Trib. Beaver Creek	Fuel Oil	250 gal.
3-10-92	Moon Freight	Clermont	Ditch	Diesel	100 gal.
6-21-92	G.M.- Delco	Montgomery	L. Beaver Creek	Wastewater	2500 gal.

Appendix Table A-1. Spills to tbe Little Miami River and its tributaries: 1983-1993, continued.

DATE	ENTITY	COUNTY	STREAM	MATERIAL	QUANTITY
7-18-92	V.A. Medical Center	Greene	Storm Sewer	Diesel	150 gal.
7-24-92	Warren Co. S.D.	Warren	Simpson Creek	Sewage	62,500 gal.
8-01-92	G.M.-Delco	Montgomery	L.Beaver Creek	Wastewater	(unknown)
8-05-92	MSD	Hamilton	L.Miami	Sewage	100 gal.
8-10-92	Low L.Miami WWTP	Warren	Simpson Creek	Wastewater	50,000 gal.
8-27-92	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	25, 000 gal.
9-05-92	Mary Baker	Greene	Beaver Creek Trib.	Fuel Oil	100 gal.
9-16-92	Clermont Co. S.D.	Clermont	L.Miami	Sludge	30,000 gal.
10-31-92	Hepar	Warren	Sanitary Sewer	H_2SO_4	100 gal.
11-12-92	Clermont Co. S. D.	Clermont	O'Bannon Creek	Sewage	500 gal.
1-29-93	Keebler Co.	Hamilton	L.Miami Trib.	Sewage	100 gal.
4-29-93	Supervalue Foods	Greene	Glady Run	NH_4	
6-1-93	Taber Pest Control	Clermont	Brusky Fork	Dursban 1%	120 gal.
6-24-93	E.M.Science	Hamilton	Duck Creek Trib.	wastewater	630 gal.

Appendix Table A-2a. Hamilton Co. MSD Combined Sewer Overflows: Number and Location

CSO Number	Location	Receiving Stream	First Monitoring Date
043	5249 Charloe Street	Duck Creek	
053	Harvest & Kincaid	Duck Creek	
054	Lawndale	Duck Creek	
061	4730 Madison Road	Duck Creek	
064	End of Harrow Street	Duck Creek	
066	Madison and Red Bank	Duck Creek	
068	Nu-Tone Parking Lot	Duck Creek	
069	Camargo & East Fork	Little Duck Creek	
071	Plainville and Indian Hill	Little Duck Creek	October 1993
072	4800 Jameson Street	Little Duck Creek	
073	4713 Settle Street	Little Duck Creek	
074	6402 Roe Street	Little Duck Creek	
075	6333 Roe Street	Little Duck Creek	October 1993
076	Bramble and Homer Street	Little Duck Creek	
078	3980 S. Whetsel	Little Duck Creek	
079	Southern Avenue	Little Duck Creek	
080	Brotherton Road	Duck Creek	
083	3675 Forest Hill Drive	Duck Creek	
084	"Old" Red Bank Road	Duck Creek	October 1993
085	5150 Wooster Pike	Duck Creek	
086	Archer Street	Duck Creek	October 1993
136	3979 Rosslyn Drive	Duck Creek	
170	Norwood Incinerator	Duck Creek	
182	Berkshire Drive	Clough Trib.	October 1993
187	5637 lester Road	Duck Creek Trib.	
188	3646 Madison Road	Duck Creek	October 1993
199	Ford Gate	Duck Creek	
200	East Ford Avenue	Little Duck Creek	
205	Camberwell Avenue	Duck Creek	
214	Yononte Circle	Duck Creek Trib.	
218	Muchmore and E. Fork Ave.	Little Duck Creek	
220	Fairlane	Duck Creek	
221	3971 Rosslyn Dr.-Sideweir	Duck Creek	
470	Eastern Ave. (Airport)	Little Miami River	
471	Grandin Road	Little Miami River	
472	Turpin Street	Duck Creek	
473	Pennsylvania Ave.	Duck Creek	
474	Emerald Place	Duck Creek	
476	Clough Circle	Clough Creek	
500	Robertson S. of I-71	Duck Creek	October 1993
501	4326 28th. Street	Duck Creek	
503	Zaeh Road	Duck Creek	
505	Beredith and Kincaid	Duck Creek	October 1993
549	Williams and Duck Creek.	Duck Creek	October 1993
550	N. Term. Edwards Road	Duck Creek	October 1993
551	I-71 Opp. Lester	Duck Creek	

Appendix Table A-2a. Hamilton Co. MSD Combined Sewer Overflows: Number and Location, continued.

CSO Number	Location	Receiving Stream	First Monitoring Date
552	I-71 W. of Marburg	Duck Creek	
553	N.Term Marburg	Duck Creek	
554	Stewart and Ken Arbre	Duck Creek	
555	Opp. 6135 Ken Arbre	Duck Creek	October 1993
556	Steward Road West	Duck Creek	October 1993
557	Steward Road East	Duck Creek	October 1993
656	Wooster and Red Bank	Little Miami River	

Appendix Table A-2b. Combined Sewer Overflow Data from Hamilton Co. MSD (Note: * denotes million gallons).

(rain events>.08") MSD #		8 Oct. 1993	9 Nov. 1993	7 Dec. 1993	15 Jan. 1994	4 Feb. 1994	**Total***
071	Total Flow *	.000	.006	.000	.001	.001	**0.008**
	# Overflows	0	1	0	1	1	**3**
	Max. event *	*0*	*.006*	*0*	*.001*	*.001*	
075	Total flow *	.187	-	.076	.007	.033	**0.30**
	# Overflows	4	-	2	4	3	**13**
	Max. event *	*.051*	-	*.039*	*.005*	*.014*	
084	Total flow *	1.482	-	.018	.558	.345	**2.40**
	# Overflows	7	-	2	5	3	**17**
	Max. event *	*.379*	-	*.017*	*.368*	*.231*	
086	Total flow *	.771	.318	1.037	1.672	2.811	**6.61**
	# Overflows	4	5	5	8	17	**39**
	Max. event *	*.321*	*.210*	*.374*	*.723*	*.360*	
182	Total flow *	5.188	-	4.368	9.185	2.373	**21.11**
	# Overflows	7	-	12	15	9	**43**
	Max. event *	*1.711*	-	*4.12*	*5.4*	*1.39*	
188	Total flow *	.048	.218	.003	.019	.192	**0.48**
	# Overflows	1	4	1	3	7	**16**
	Max. event *	*.048*	*.116*	*.003*	*.019*	*.123*	
500	Total flow *	.510	-	.055	.368	.245	**1.18**
	# Overflows	5	-	1	9	3	**18**
	Max. event *	*.352*	-	*.055*	*.226*	*.177*	
505	Total flow *	.166	-	-	.000	.007	**0.17**
	# Overflows	5	-	-	0	2	**7**
	Max. event *		-	-	*0*	*.005*	
549	Total flow *	19.517	54.499	22.602	52.441	21.495	**170.55**
	# Overflows	7	8	8	10	7	**40**
	Max. event *	*10.19*	*25.98*	*14.1*	*21.76*	*12.32*	
550	Total flow *	.778	2.021	.361	.879	.574	**4.61**
	# Overflows	7	7	5	6	5	**30**
	Max. event *	*.481*	*1.063*	*.2*	*.516*	*.441*	
555	Total flow *	1.123	3.142	1.394	4.924	1.797	**12.38**
	# Overflows	8	4	3	6	5	**26**
	Max. event *	.481	1.77	1.375	2.472	.866	

Appendix Table A-2b. Combined Sewer Overflow Data from Hamilton Co. MSD (Note: * denotes million gallons), continued.

(rain events>.08") MSD #		8 Oct. 1993	9 Nov. 1993	7 Dec. 1993	15 Jan. 1994	4 Feb. 1994	**Total***
556	Total flow *	2.576	1.632	1.055	3.27	-	**8.53**
	# Overflows	5	4	4	4	-	**17**
	Max. event *	*1.74*	*.944*	*.999*	*1.92*	-	
557	Total flow *	.120	1.253	.482	1.459	.544	**3.86**
	# Overflows	3	5	4	8	6	**26**
	Max. event *	*.052*	*.511*	*.476*	*.572*	*.129*	
Total Quantity		**32.5**	**63.1**	**31.5**	**74.8**	**30.4**	**232.2**
Total # Overflows		**63**	**38**	**47**	**79**	**68**	**295**

* million gallons

Appendix Table A-2c. Combined Sewer Overflow Data from Milford Sewer District

Month	CSO #	Total Flow (MG)	# Overflows	Max. Event (MG)
1990				
January	002	.453	1	.453
	003	7.65	2	6.45
February	002	1.665	4	.813
	003	9.2	6	3.36
March	002	.247	1	.247
	003	.726	2	.403
April	002	.24	1	.24
	003	7.65	2	6.45
May	002	1.20	2	.667
	003	10.36	7	8.0
June	002	.07	1	.07
	003	.853	2	.571
July	002	1.3	1	1.3
	003	2.19	2	1.94
August	002	.788	2	.645
	003	.788	2	.645
September	002	none	none	none
	003	none	none	none
October	002	3.303	4	1.94
	003	13.138	4	8.71
November	002	none	none	none
	003	none	none	none
December	002	4.844	6	2.178
	003	30.139	7	10.5
Total 1990	**002**	**14.1**	**24**	
	003	**76.22**	**35**	

Appendix Table A-2c. Combined Sewer Overflow Data from Milford Sewer District, continued.

Month	CSO #	Total Flow (MG)	# Overflows	Max. Event (MG)
1992				
January	002	.0157	1	.0157
	003	.323	1	.323
February	002	none	none	none
	003	none	none	none
March	002	.855	2	.523
	003	7.743	4	5.161
April	002	.027	1	.027
	003	.108	1	.108
May	002	none	none	none
	003	none	none	none
June	002	.081	1	.081
	003	3.871	1	3.871
July	002	none	none	none
	003	none	none	none
August	002	none	none	none
	003	.329	1	.329
September	002	none	none	none
	003	.426	1	.426
October	002	none	none	none
	003	none	none	none
November	002	.165	1	.165
	003	.852	1	.852
December	002	none	none	none
	003	none	none	none
Total 1992	**002**	**1.144**	**6**	
	003	**13.652**	**10**	

Appendix Table A-2c. Combined Sewer Overflow Data from Milford Sewer District, continued.

Month	CSO #	Total Flow (MG)	# Overflows	Max. Event (MG)
1993				
January	002	.913	2	.671
	003	2.661	2	2.258
Februray	002	none	none	none
	003	none	none	none
March	002	.942	3	.484
	003	2.316	5	1.616
April	002	.968	1	.968
	003	4.553	2	4.284
May	002	none	none	none
	003	.108	1	.108
June	002	none	none	none
	003	none	none	none
July	002	none	none	none
	003	none	none	none
August	002	none	none	none
	003	none	none	none
September	002	none	none	none
	003	none	none	none
Octoher	002	.114	1	.114
	003	3.226	1	3.226
November	002	none	none	none
	003	none	none	none
December	002	none	none	none
	003	none	none	none
Total	**002**	**2.955**	**7**	
	003	**13.756**	**11**	

Appendix Table A-2c. Combined Sewer Overflow Data from Milford Sewer District, continued.

Month	CSO #	Total Flow (MG)	# Overflows	Max. Event (MG)
1994				
January	002	.431	1	.431
	003	4.355	1	4.355
February	002	none	none	none
	003	none	none	none
Total	002	.431	1	
	003	4.355	1	

Note: MOR's for 1991 could not be located.

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count).

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Yellow Springs WWTP *(Yellow Springs Creek: Greene Co.)*			
01/89	Ammonia	13.6 kg/day**	23.7 kg/day
02/89	TSS	40.9 kg/day*	44.0 kg/day
	TSS	68.2 kg/day**	98.7 kg/day
	Ammonia	9.1 kg/day*	15.1 kg/day
03/89	TSS	40.9 kg.day*	58.7 kg/day
	TSS	68.2 kg/day**	81.8 kg/day
	Ammonia	9.1 kg/day*	10.2 kg/day
	Ammonia	13.6 kg/day**	23.5 kg/day
04/89	TSS	40.9 kg.day*	209.7 kg/day
	TSS	68.2 kg/day**	189.9; 96.6; 92.9; 449.5kg/day
	Ammonia	9.1 kg/day*	10.2 kg/day
	Ammonia	13.6 kg/day**	71.8 kg/day
	BOD_5	56.9 kg/day*	86.6 kg/day
	BOD_5	9.1 kg/day**	230.0 kg/day
	pH	6.5 S.U.	3.9 S.U.
05/89	TSS	40.9 kg/day*	138.1 kg/day
	TSS	62.8 kg/day**	123.2;120.2;74.1;235.2 kg/day
	Ammonia	1.5 mg/l*	20 mg/l
	Ammonia	2.3 mg/l**	2.49; 3.35 mg/l
	BOD5	52.3 kg/day**	76.6 kg/day
	Chlorine residual	0.5 mg/l	exceeded 8 days
06/89	TSS	40.9 kg/day*	41.3 kg/day
	TSS	68.2 kg/day**	70.6 kg/day
	Ammonia	9.1 kg/day**	7.0; 13.8; 9.5; 9.2 kg/day
	Chlorine residual	0.5 mg/l	exceeded 4 days
07/89	Ammonia	9.1 kg/day**	11.8 kg/day
05/90	TSS	40.9 kg/day*	60.3 kg/day
	Ammonia	9.1 kg/day**	
07/90	TSS	40.9 kg/day*	185.5 kg/day
	TSS	68.2 kg/day**	550.4; 82.6 kg/day
	Ammonia	3.4 kg/day*	3.5 kg/day
	Ammonia	5.2 kg/day**	10.8 kg/day
	BOD_5	52.3 kg/day**	71.9 kg/day
	Fecal coliform	2000/100 ml**	6700/100 ml
09/90	Residual Chlorine	0.5 mg/l	exceeded 1 day
10/90	Residual Chlorine	0.5 mg/l	exceeded 1 day
12/90	TSS	40.9 kg/day*	141.1 kg.day
	TSS	68.2 kg/day**	81.0; 312.9 kg/day
	Ammonia	9.1 kg/day*	17.8 kg/day
	Ammonia	13.6 kg/day**	48.2 kg/day
	BOD_5	91 kg/day **	134.1 kg/day

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Yellow Springs WWTP *(Yellow Springs Creek: Greene Co.)*, cont.			
01/91	TSS	40.9 kg/day*	64.1 kg/day
	Ammonia	4.0 mg/l*	4.36 mg/l
	Ammonia	6.0 mg/l**	6.62; 8.18 mg/l
	Ammonia	9.1 kg/day*	31.8 kg/day
02/91	TSS	40.9 kg/day*	73.5 kg/day
	TSS	68.2 kg/day**	68.2 kg/day
03/91	TSS	40.9 kg/day*	94.7 kg/day
	TSS	68.2 kg/day**	97.1; 73.5; 96.4; 111.9 kg/day
	Ammonia	13.6 kg/day**	17.3 kg/day
04/91	TSS	40.9 kg/day*	56.9 kg/day
	TSS	68.2 kg/day**	112.5 kg/day
07/91	Fecal coliform	2000/100 ml**	3700/100 ml
10/91	Ammonia	1.5 mg/l*	1.77 mg/l
	Ammonia	2.3 mg/l**	4.58 mg/l
	Ammonia	3.4 kg/day*	6.5 kg/day
	Ammonia	5.2 kg/day**	1.67; 6.4 kg/day
11/91	Ammonia	2.3 mg/l**	3.14 mg/l
	Ammonia	3.4 kg/day*	5.6 kg/day
	Ammonia	5.2 kg/day**	13.51 kg/day
03/92	TSS	40.9 kg/day*	45.8 kg/day
	Ammonia	9.1 kg/day*	13.3 kg/day
	Ammonia	13.6 kg/day**	25.1; 18.6 kg/day
04/92	Ammonia	1.5 mg/l*	20 mg/l
	Ammonia	2.3 mg/l**	79.15 mg/l
	Ammonia	3.4 kg/day*	73 kg/day
	Ammonia	5.2 kg/day**	273.9 kg/day
05/92	Ammonia	1.5 mg/l*	3.57 mg/l
	Ammonia	2.3 mg/l**	10.31 mg/l
	Ammonia	3.4 kg/day*	12.9 kg/day
	Ammonia	5.2 kg/day**	37.2 kg/day
	Fecal coliform	2000/100 ml**	6700/100 ml
07/92	TSS	40.9 kg/day*	111.13 kg/day
	TSS	68.2 kg/day**	126.5; 166.1; 78.1 kg/day
	TSS	18 mg/l*	23 mg/l
	TSS	30 mg/l	31 mg/l
	Ammonia	2.3 mg.l**	2.33 mg/l
	Ammonia	3.4 kg/day*	4.6 kg/day
	Ammonia	5.2 kg/day**	6.7; 9.9 kg/day
	Fecal coliform	1000/100 ml **	3156/100 ml
	Fecal coliform	2000/100 ml *	6700; 6014; 5770/100 ml
08/92	TSS	68.2 kg/day**	84.2 kg/day
	Fecal coliform	2000/100 ml	2600/100 ml

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Yellow Springs WWTP *(Yellow Springs Creek: Greene Co.)*, cont.			
09/92	Fecal colifrom	2000/100 ml	AK
12/92	Ammonia	5.2 kg/day**	10.3 kg/day
01/93	TSS	40.9 kg/day*	200.6 kg/day
	TSS	68.2 kg/day**	346 kg/day
	TSS	18 mg/l*	26.5 mg/l
	TSS	30 mg/l**	41 mg/l
04/93	TSS	40.9 kg/day*	62.37 kg/day
	TSS	68.2 kg/day**	84 kg/day
05/93	TSS	40.9 kg/day*	68.99 kg/day
	TSS	68.2 kg/day **	87 kg/day
	BOD_5	34 kg/day*	4479.6 kg/day
	BOD_5	52 kg/day**	79.6 kg/day
07/93	TSS	68 kg/day*	
	TSS	41 kg/day**	165.9 kg/day
	TSS	18 mg/l*	
	TSS	30 mg/l**	
12/93	TSS	68 kg/day*	2820 kg/day
	TSS	41 kg/day**	4341.9 kg/day
	BOD_5	57 kg/day*	3580 kg/day
	BOD_5	91 kg/day**	17350 kg/day
City of South Charleston WWTP *(Little Miami River: Clark Co.)*			
03/92	TSS	30 mg/l*	97 mg/l
	TSS	45 mg/l**	151; 204 mg/l
06/92	TSS	30 mg/l**	57 mg/l
	D.O	5.0 mg/l	exceeded 2 days
07/92	Fecal coliform	5000/100 ml**	AK
	Chlorine residual	0.038 mg/l	exceeded 10 days
	D.O.	5.0 mg/l	3.8 mg/l
08/92	Chlorine residual	0.038 mg/l	exceeded 13 days
	Oil and Grease	10 mg/l	15.8 mg/l
	D.O.	5.0 mg/l	4.4 mg/l
10/92	Fecal coliform	5000/100ml**	AK
01/93	TSS	27.3 kg/day*	40.0 kg/day
	TSS	40.9 kg/day**	63.99kg/day
04/93	BOD_5	22.5 mg/l**	22.85 mg/l
	BOD_5	13.6 kg/day*	14.37 kg/day
	BOD_5	20.4 kg/day**	36.34 kg/day
05/93	TSS	40.9 kg/day**	64.5 kg/day
	TSS	30 mg/l**	36.2mg/l
	Chlorine residual	0.038 mg/l	0.6 mg/l
	BOD_5	10 mg/l*	15.94 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of South Charleston WWTP *(Little Miami River: Clark Co.)*, cont.			
	BOD_5	15 mg/l**	42.0 mg/l
	BOD_5	9.1 kg/day*	11.95 kg/day
	BOD_5	13.6 kg/day**	31.37 kg/day
06/93	TSS	20 mg/l*	43.44 mg/l
	TSS	30 mg/l**	90.5 mg/l
	TSS	18.2 kg/day*	25.57 kg/day
	TSS	27.3 kg/day**	59.86 kg/day
	BOD_5	15 mg/l	15.2 mg/l
07/93	TSS	30 mg/l**	60.9 mg/l
	TSS	18.2 kg/day*	21.7 kg/day
	TSS	27.3 kg/day**	80.29 kg/day
	Chlorine residual	0.038 mg/l	1 mg/l
	BOD5	15 mg/l**	17.1 mg/l
	BOD5	13.6 kg/day**	22.43 kg/day
08/93	Chlorine residual	0.038 mg/l	1.1 mg/l
	TSS	20 mg/l*	28.22 mg/l
	TSS	30 mg/l**	88.0 mg/l
	TSS	27.3 kg/day**	48.18 kg/day
City of Cedarville WWTP *(Massies Creek: Greene Co.)*			
10/90	$CBOD_5$	23 mg/l**	30 mg/l
	$CBOD_5$	15 mg/l *	16.2 mg/l
	$CBOD_5$	58.8 kg/day **	75.3 kg/day
11/90	TSS	45 mg/l **	56 mg/l
	TSS	30 mg/l *	37.5 mg/l
12/90	$CBOD_5$	37 mg/l **	48.5 mg/l
01/91	$CBOD_5$	37 mg/l **	50 mg/l
	$CBOD_5$	25 mg/l *	30 mg/l
	TSS	45 mg/l**	86 mg/l
	TSS	30 mg/l *	46 mg/l
02/91	$CBOD_5$	37 mg/l**	60 mg/l
	$CBOD_5$	25 mg/l*	28 mg/l
	TSS	45 mg/l**	51 mg/l
	TSS	30 mg/l*	32 mg/l
05/91	Fecal coliforms	2000/100 ml**	1 week=AK
06/91	Chlorine Residual	0.5 mg/l	exceeded 2 days
07/91	Fecal coliforms	2000/100 ml**	1 week=AK
	Chlorine Residual	0.5 mg/l	exceeded 2 days
08/91	Fecal coliforms	2000/100 ml**	2 weeks=AK
	Chlorine Residual	0.5 mg/l	exceeded 2 days

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Cedarville WWTP *(Massies Creek: Greene Co.), cont.*			
09/91	Chlorine Residual	0.5 mg/l	exceeded 21 days
10/91	Fecal coliforms	2000/100 ml**	2 weeks=AK
	Chlorine Residual	0.5 mg/l	exceeded 6 days
	TSS	30 mg/l*	36 mg/l
	TSS	30 mg/l*	33 mg/l
11/91	$CBOD_5$	37 mg/l**	39 mg/l
	TSS	45 mg/l**	48, 61.5 mg/l
12/91	TSS	45 mg/l**	46, 56 mg/l
	TSS	30 mg/l*	36 mg/l
01/92	TSS	45 mg/l**	47.5 mg/l
	TSS	30 mg/l*	39 mg/l
02/92	TSS	45 mg/l**	102; 56 mg/l
	TSS	30 mg/l*	50 mg/l
	$CBOD_5$	37 mg/l**	55.5 mg/l
	$CBOD_5$	25 mg/l*	32.2 mg/l
04/92	TSS	45 mg/l**	82; 91 mg/l
04/92	TSS	30 mg/l*	50 mg/l
	$CBOD_5$	37 mg/l**	63 mg/l
	$CBOD_5$	25 mg/l*	26.8 mg/l
05/92	TSS	45 mg/l**	59; 78 mg/l
	TSS	30 mg/l*	46 mg/l
	$CBOD_5$	23 mg/l**	25; 25; 31.5 mg/l
	$CBOD_5$	15 mg/l*	23.6 mg/l
	Fecal coliforms	2000/100 ml**	4 weeks AK
06/92	Fecal coliforms	2000/100 ml**	2 weeks AK
	Chlorine Residual	0.5 mg/l	exceeded 25 days
07/92	Chlorine Residual	10.5 mg/l	exceeded 1 day
08/92	Fecal coliforms	2000/100 ml**	2 weeks AK
10/92	Fecal coliforms	2000/100 ml**	3 weeks AK
	TSS	30 mg/l*	31 mg/l
	$CBOD_5$	15 mg/l*	16.2 mg/l
11/92	TSS	45 mg/l**	68; 93; 70 mg/l
	TSS	30 mg/l*	62 mg/l
	$CBOD_5$	37 mg/l**	45 mg/l
	$CBOD_5$	25 mg/l*	29.1 mg/l
12/92	TSS	45 mg/l**	61 mg/l
	$CBOD_5$	37 mg/l**	50 mg/l
01/93	TSS	45 mg/l**	58; 104 mg/l
	TSS	30 mg/l*	55 mg/l
	$CBOD_5$	37 mg/l**	48 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Cedarville WWTP *(Massies Creek: Greene Co.), cont.*			
	$CBOD_5$	25 mg/l*	27.2 mg/l
01/93	TSS	45 mg/l**	59 mg/l
	TSS	30 mg/l*	36 mg/l
	$CBOD_5$	37 mg/l**	83 mg/l
	$CBOD_5$	25 mg/l*	38.5 mg/l
03/93	TSS	45 mg/l**	412; 71 mg/l
	TSS	30 mg/l*	36 mg/l
	TSS	115.5 kg/day**	1400; 173.5 kg/day
	TSS	76.7 kg/day*	407.7 kg/day
	$CBOD_5$	37 mg/l**	137; 70.5 mg/l
	$CBOD_5$	25 mg/l*	57.2 mg/l
03/93	$CBOD_5$	94.7 kg/day**	461; 172.3 kg/day
	$CBOD_5$	64.0 kg/day*	172.9 kg/day
04/93	TSS	45 mg/l**	52 mg/l
	$CBOD_5$	37 mg/l**	41.5 mg/l
05/93	Fecal coliforms	2000/100 ml**	3 weeks AK
	Chlorine Residual	0.5 mg/l	exceeded 17 days
06/93	Fecal coliforms	2000/100 ml**	3 weeks=AK
	Chlorine Residual	0.5 mg/l	exceeded 20 days
07/93	Chlorine Residual	0.5 mg/l	exceeded 7 days
	Fecal coliforms	2000/100 ml**	2 weeks=AK
08/93	Chlorine Residual	0.5 mg/l	exceeded 13 days
City of Jamestown WWTP *(South Branch Caesars Creek: Greene Co.)*			
02/89	DO	5.0mg/l	exceeded 1 day
	pH	6.5 S.U. (min.)	6.0 S.U.
05/90	Ammonia	2.3 mg/l**	3.1 mg/l
	Ammonia	2.6 kg/day**	3.4 kg/day
06/90	Ammonia	2.3 mg/l**	2.4 mg/l
	Ammonia	2.6 kg/day**	3.3 kg/day
	Ammonia	1.5 mgl*	1.6mg/l
	Ammonia	1.7 kg/day*	1.8 kg/day
07/90	Ammonia	2.3 mg/l**	2.4 mg/l
04/91	pH	6.5 S.U. (min)	6.4 S.U.
05/91	Fecal coliform	2000/100 ml**	1 week=AK
07/91	Clorine Residual	0.5 mg/l	exceeded 1 day
08/91	pH	6.5 S.U.	6.4 S.U.
	Fecal coliform	2000/100 ml**	1 week=AK
09/91	pH	6.4 S.U.	6.3; 6.4 S.U.
	Ammonia	2.3 mg/l **	2.6 mg/l
	Ammonia	2.3 mg/l**	7.95 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Jamestown WWTP *(South Branch Caesars Creek: Greene Co.), cont.*			
	Ammonia	2.6 kg/day**	4.6 kg/day
	Ammonia	1.5 mg/l*	3.5 mg/l
	Ammonia	1.7 kg/day*	4.6 kg/day
10/91	Ammonia	2.3 mg/l**	3.1 mg/l
11/91	pH	6.5 S.U.	6.3 S.U.
02/92	Ammonia	8.5 kg/day*	14.43 kg/day
	Ammonia	5.0 mg/l**	16.55 mg/l
	pH	6.5S.U.(min.)	6.4 S.U.
04/92	Ammonia	5.7 kg/day	6.58 kg/day
	Ammonia	8.5 kg/day**	21.1 kg/day
	Ammonia	5.0 mg/l**	15.65 mg/l
09/92	pH	6.5 S.U. (min.)	6.4 S.U.
	TSS	13.6 kg/day	1931.85 kg/day
	TSS	20.5 kg/day**	6214.04 kg/day
	Ammonia	5.7 kg/day*	30.190 kg/day
	Ammonia	8.5 kg/day**	77.67 kg/day
	Chlorine Residual	0.5 mg/l	2.0 mg/l twice
	BOD_5	11.4 kg/day	70.55 kg/day
	BOD_5	17.1 kg/day**	232.9 kg/day
10/92	pH	6.5 S.U. (min.)	6.4 S.U.
02/93	Ammonia	7.50 mg/l*	15.95 mg/l
	Ammonia	5.7 kg/day*	6.6 kg/day
	Ammonia	8.5 kg/day**	21.13 kg/day
	Ammonia	5.0 mg/l**	5.36 mg/l
03/93	Ammonia	8.5 kg/day**	10.05 kg/day
05/93	Residual Chlorine	0.5 mg/l	2.0 mg/l, twice
06/93	TSS	13.6 kg/day*	1086.6 kg/day
	TSS	20.5 kg/day**	3975.0 kg/day
	Ammonia	1.7 kg/day*	21.77 kg/day
	Ammonia	2.6 kg/day**	40.01 kg/day
	Ammonia	2.30mg/l**	2.30 mg/l
	Residual Chlorine	0.5 mg/l	12.0 mg/l
	BOD_5	11.4kg/day*	27.99 kg/day
	BOD_5	17.1 kg/day**	79.56 kg/day
08/93	Ammonia	1.5 mg/l*	1.57 mg/l
	Ammonia	2.6 kg/day**	2.87 kg/day
	Ammonia	2.30 mg/l**	4.65 mg/l
11/93	Ammonia	7.50 mg/l*	10.95 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Xenia-Ford Road WWTP *(Little Miami River: Greene Co.)*			
07/91	Copper	50 µg/l ***	66 µg/l
	Zinc	66 µg/l***	72 µg/l
09/91	Ammonia	4.0 mg/l*	4.42 mg/l
	Ammonia	6.0 mg/l*	6.19 mg/l
	Copper	50 µg/l***	57 µg/l
06/92	Fecal coliform	2000/100 ml**	4976; 6738/100 ml
07/92	Fecal coliform	1000/100 ml*	1860/100 ml
	Fecal coliform	2000/100 ml**	2107; 2005; 3340/100 ml
08/92	Fecal coliform	1000/100 ml*	20132/100 ml
	Chlorine residual	0.5 mg/l	exceeded 1 day
05/93	Chlorine residual	0.5 mg/l	exceeded 2 days
08/93	Fecal coliform	2000/100 ml**	2 weeks=AK
City of Xenia-Glady Run WWTP *(Glady Run Swale: Greene Co.)*			
06/89	Copper	26 µg/l ***	37 µg/l
08/89	Copper	26 µg/l***	39 µg/l
12/89	Copper	26 µg/l ***	35 µg/l
04/90	Copper	26 µg/l ***	34 µg/l
	Copper	0.25 kg/day***	0.33 kg/day
07/90	Zinc	95 µg/l***	141 µg/l
03/91	pH	6.5 S.U.	1.69 S.U.
	Ammonia	30 kg/day*	52.85 kg/day
	Ammonia	4.5 mg/l*	4.94 mg/l
05/91	Cadmium	4.5 µg/l ***	6 ug/l
	Copper	26 µg/l***	30 µg/l
	Lead	53 µg/l***	100 µg/l
	Mercury	0.3 µg/l***	0.5 µg/l
	Hex-Chromium	15 µg/l***	60 µg/l
09/91	Copper	26 µg/l***	31 µg/l
10/91	Copper	26 µg/l***	73 µg/l
	Copper	0.25 kg/day (daily load)	0.45 kg/day
12/91	pH	6.5 S.U.	exceeded 7 days
06/92	D.O.	5.0 mg/l	exceeded 1 dai
07/92	Mercury	0.3 µg/l***	2.0 µg/l
	Mercury	0.005 kg/day (daily load)	0.017 kg/day
03/93	Copper	26 µg/l ***	41 µg/l
	Copper	0.25 kg/day***	0.56 kg/day
07/93	Fecal coliform	2000/100 ml**	2261/100 ml
08/93	D.O.	5.0 mg/l	violated 1 day
10/93	Cadmium	0.04 kg/day***	1.55 kg/day
	Cadmium	4.5 µg/l***	200 µg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Greene Co. Beavercreek WWTP *(Beaver Creek)*			
10/91	Mercury	0.30 µg/l***	0.76 µg/l
	Mercury	0.005 kg/day***	0.009 kg/l
08/92	Ammonia	52 kg/day***	52.8 kg/day
	Mercury	0.017 µg/l*	0.30 µg/l
	Mercury	0.005 kg/day***	0.0054 kg/day
	Mercury	0.0003 kg/day*	0.0054 kg/day
03/93	Zinc	1.31 kg/day***	1.37 kg/day
09/93	Fecal coliform	2000/100 ml**	2890/100 ml
10/93	Chlorine residual	0.5 mg/l	exceeded 1 day
Montgomery Co. Eastern Regional WWTP *(Little Beaver Creek)*			
01/89	Copper	23 µg/l***	
03/89	Copper	23 µg/l***	27 µg/l; 28 µg/l
	Silver	3 µg/l***	4 µg/l
	Ammonia	148 kg/day*	172.96 kg/day
	Ammonia	222 kg/day**	229.23 kg/day
	Ammonia	3.0 mg/l*	3.83 mg/l
	Ammonia	4.5 mg/l**	5.02 mg/l
04/89	Copper	23 µg/l***	28 µg/l
	Cadmium	4 µg/l***	21 µg/l
05/89	pH	6.5 S.U.	6.4 S.U.
06/89	Fecal coliform	2000/100 ml **	AK; 3973/100 ml
	Chlorine residual	0.5 mg/l	exceeded 3 days
07/89	Ammonia	2.0 mg/l*	2.09 mg/l
	Chlorine residual	0.5 mg/l	exceeded 2 days
08/89	Copper	23 µg/l***	24; 33; 36; 32 µg/l
10/89	Fecal coliform	2000/100 ml**	2487; 4462/100 ml
	Chlorine residual	0.5 mg/l	exceeded 1 day
	Copper	23 µg/l***	exceeded 1 day
12/89	Copper	23 µg/l***	29 µg/l
01/90	Copper	23 µg/l***	29 µg/l
02/90	Copper	23 µg/l***	42 µg/l
06/90	Silver	3 µg/l***	9.7 µg/l
07/90	Copper	23 µg/l ***	33 µg/l
	Silver	3 µg/l***	3.1 µg/l
09/90	Copper	23 µg/l***	25 µg/l
12/91	Chromium	3.64 kg/day*	81.2 kg/day
	Chromium	6.69 kg/day***	319.9 kg/day
	Chromium	74 µg/l*	78.5 µg/l
	Chromium	136 µg/l**	139 µg/l
	Lead	0.98 kg/day*	51.91 kg/day
	Lead	1.28 kg/day***	207.1 kg/day

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Montgomery Co. Eastern Regional WWTP *(Little Beaver Creek), cont.*			
	Lead	20 µg/l*	27.25 µg/l
	Lead	26 µg/l***	90 µg/l
	Silver	0.08 kg/day*	0.59 kg/day
	Silver	0.54 kg/day***	2.30 kg/day
12/91	Zinc	5.61 kg/day	41.8 kg/day
	Zinc	9.84 kg/day***	1663.4 kg/day
	Copper	1.67 kg/day*	143.4 kg/day
	Copper	2.85 kg/day ***	570 kg/day
	Copper	34 µg/l*	248 µg/l
	Copper	58 µg/l***	87 µg/l
	Nickel	1.77 kg/day*	89 kg/day
	Nickel	2.66 kg/day***	354.4 kg/day
12/91	Nickel	36 µg/l*	51 µg/l
	Nickel	84 µg/l ***	154 µg/l
03/92	Oil & Grease	10 mg/l	12.7 mg/l
04/92	Cadmium	0.18 kg/day*	2.35 kg/day
	Cadmium	0.93 kg/day**	4.7 kg/day
	Chromium	3.64 kg/day*	117.7 kg/day
	Lead	0.98 kg/day*	11.9 kg/day
	Lead	1.28 kg/day***	47.1 kg/day
04/92	Silver	0.08 kg/day*	1.77 kg/day
	Silver	0.54 kg/day***	4.71 kg/day
	Zinc	5.61 kg/day*	31.1 kg/day
	Zinc	9.84 kg/day***	117.7 kg/day
	Copper	1.67 kg/day*	19.34 kg/day
	Copper	2.85 kg/day***	75 kg/day
	Nickel	1.77 kg/day*	24.4 kg/day
	Nickel	2.66 kg/day***	94.2 kg/day
	BOD_5	1232 kg/day*	2251.6 kg/day
	BOD_5	1873 kg/day***	3063.9 kg/day
07/92	Cyanide	0.74 kg/day*	2.79 kg/day
	Cyanide	2.75 kg/day***	11.15 kg/day
	Cyanide	0.015 mg/l*	0.0875 kg/day
	Cyanide	0.56 mg/l***	0.35 mg/l
05/93	Nickel	36 mg/l*	62.3 mg/l
	Nickel	84 mg/l***	193 mg/l
07/93	TSS	1478 kg/day*	2339 kg/day
	TSS	2218 kg/day**	6229 kg/day
	Ammonia	99 kg/day*	383 kg/day
	Ammonia	148 kg/day**	727.1 kg/day
	Nickel	1.77 kg/day*	10.58 kg/day
	Nickel	2.66 kg/day***	41.72 kg/day

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Montgomery Co. Eastern Regional WWTP *(Little Beaver Creek), cont.*			
07/93	Zinc	5.61 kg/day*	58.1 kg/day
	Zinc	9.84 kg/day***	227.6 kg/day
	BOD_5	1232 kg/day*	4179 kg/day
	BOD_5	1873 kg/day**	6742.5 kg/day
	Cyanide	0.74 kg/day*	195.8 kg/day
	Cyanide	2.75 kg/day***	782.8 kg/day
	Cyanide	0.015 mg/l*	6.75 mg/l
	Cyanide	0.056 mg/l***	27 mg/l
Greene Co. Sugarcreek WWTP *(Little Miami River)*			
05/93	Ammonia	4.0 mg/l*	4.79 mg/l
	Ammonia	74 kg/day*	105.4 kg/day
	Ammonia	111 kg/day**	124.72 kg/day
08/93	Ammonia	6.0 mg/l**	6.35 mg/l
12/93	Mercury	0.09 µg/l*	0.29 µg/l
	Mercury	0.2 µg/l***	0.29 µg/l
	Mercury	0.002 kg/day*	0.006 kg/day
	Mercury	0.004 kg/day***	0.006 kg/day
City of Waynesville WWTP *(Little Miami River: Warren Co.)*			
07/92	Fecal coliform	2000/100 ml	2080/100 ml
08/92	Fecal coliform	1000/100 ml	1462/100 ml
08/92	Fecal coliform	2000/100 ml	3782/100 ml
09/92	Fecal coliform	1000/100 ml	1510/100 ml
	Fecal coliform	2000/100 ml	2271/100 ml
10/92	Fecal coliform	1000/100 ml	1293/100 ml
	Fecal coliform	2000/100 ml	2630/100 ml
04/93	Ammonia	7 kg/day*	15.89 kg/day
	Ammonia	2.5 mg/l*	7.74 mg/l
	Ammonia	13.4 kg/day**	61.99 kg/day
	Ammonia	5 mg/l**	30.30 mg/l
	D.O.	6.0 mg/l	5.6 mg/l
05/93	D.O.	6.0 mg/l	0.9 mg/l
	pH	6.5 S.U.	6.4 S.U.
09/93	TSS	30 mg/l**	41 mg/l
City of Lebanon WWTP *(Little Miami River: Warren Co.)*			
07/91	TSS	227 kg/day*	8800.1 kg/day
	TSS	341 kg/day**	30898.4 kg/day
	Ammonia	17 kg/day*	821.7 kg/day
	Ammonia	26 kg/day**	3237.98 kg/day
	BOD_5	170 kg/day*	5085.5 kg/day
	BOD_5	261 kg/day**	12422.9 kg/day
08/93	Ammonia	26 kg/day**	35 kg/day
	Ammonia	2.3 mg/l**	3.3 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Totes Inc. *(Little Miami River: Hamilton Co.)*			
03/89	BOD_5	11.0 kg/day*	14.4 kg/day
04/89	BOD_5	11.0 kg/day*	15.3 kg/day
05/89	BOD_5	11.0 kg/day*	14.7 kg/day
06/89	BOD_5	11.0 kg/day*	18.5 kg/day
	BOD_5	18.39 kg/day***	19.1; 18.8; 19.9 kg/day
07/89	BOD_5	11.0 kg/day*	19.1 kg/day
08/89	BOD_5	11.0 kg/day*	12.8 kg/day
	BOD_5	18.39 kg/day***	20.4; 21; 20.8 kg/day
	TSS	33.01 kg/day***	41.6 kg/day
09/89	BOD_5	11.0 kg/day*	14.7 kg/day
10/89	BOD_5	11.0 kg/day*	17.8 kg/day
	BOD_5	18.39 kg/day***	20.4 kg/day
11/89	BOD_5	11.0 kg/day*	18.0 kg/day
	BOD_5	18.39 kg/day**	18.98; 19.2 kg/day
12/89	BOD_5	11.0 kg/day*	15.5 kg/day
01/90	BOD_5	11.0 kg/day*	13.8 kg/day
	TSS	33.07 kg/day***	57 kg/day
03/90	TSS	14.15 kg/day*	14.58 kg/day
04/90	TSS	14.15 kg/day*	32.7 kg/day
04/90	TSS	33.07 kg/day***	39.8 kg/day
05/90	TSS	14.15 kg/day*	57.79 kg/day
	TSS	33.07 kg/day***	64.16; 60.49; 47.56 kg/day
06/90	TSS	33.07 kg/day***	55.81; 36.1 kg/day
	TSS	14.15 kg/day*	34.29 kg/day
	BOD_5	11.0 kg/day*	19.78 kg/day
	BOD_5	18.39 kg/day***	31.62; 21.27 kg/day
07/90	TSS	14.15 kg/day*	31.22 kg/day
	TSS	33.07 kg/day***	52.97 kg/day
08/90	TSS	14.15 kg/day*	25.2 kg/day
	Oil & Grease	3.30 kg/day*	4.74 kg/day
09/90	Oil & Grease	3.30 kg/day*	3.57 kg/day
	TSS	14.15 kg/day*	33.88 kg/day
	TSS	33.07 kg/day***	41.09: 34.59 kg/day
10/90	TSS	14.15 kg/day*	33.88 kg/day
	TSS	33.07 kg/day***	56.34; 47.5; 34.49 kg/day
12/90	TSS	14.15 kg/day*	15.8 kg/day
05/91	Oil & Grease	3.30 kg/day*	3.63 kg/day
10/91	BOD_5	11.0 kg/day*	16.48 kg/day
	BOD_5	18.39 kg/day***	24.7 kg/day

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), contiuued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Totes Inc. *(Little Miami River: Hamilton Co.), cont*			
11/91	BOD_5	11.0 kg/day*	20.44 kg/day
	BOD_5	18.39 kg/day***	24.5; 21.72; 18.76 kg/day
03/92	BOD_5	11.0 kg/day*	18.7 kg/day
	BOD_5	18.39 kg/day***	40.5 kg/day
04/92	BOD_5	11.0 kg/day*	13.3 kg/day
	BOD_5	18.39 kg/day***	21.07 kg/day
05/92	BOD_5	11.0 kg/day*	16.58 kg/day
	BOD_5	18.39 kg/day***	23.3 kg/day
	TSS	14.15 kg/day*	21.28 kg/day
06/93	TSS	14.15 kg/day*	16.46 kg/day
07/93	TSS	14.15 kg/day*	15.56 kg/day
08/93	TSS	14.15 kg/day*	25.08 kg/day
09/93	TSS	14.15 kg/day*	15.18 kg/day
10/93	TSS	14.15 kg/day*	20.1 kg/day
City of Mason WWTP *(Muddy Creek: Warren Co.)*			
01/89	BOD_5	10 mg/l *	16 mg/l
	BOD_5	75.80 kg/day*	134.1 kg/day
	BOD_5	15 mg/l**	33.7,19.7 mg/l
	BOD_5	113.70 kg/day**	293.3, 185.4 kg/day
	TSS	12 mg/l*	32.3 mg/l
	TSS	90.96 kg/day*	288.5 kg/day
	TSS	18 mg/l**	84.6,30.6 mg/l
	TSS	136.44 kg/day**	776.7, 297.5 kg/day
02/89	BOD_5	10 mg/l*	12.9 mg/l
	BOD_5	75.80 kg/day*	147.8 kg/day
	BOD_5	15 mg/l**	22.5,19.4 mg/l
	BOD_5	113.70 kg/day **	313.7, 232.6 kg/day
	TSS	12 mg/l*	21.9 mg/l
	TSS	90.96 kg/day*	269.9 kg/day
	TSS	18 mg/l**	46.3,30.4 mg/l
	TSS	136.44 kg/day**	642.2, 386.0 kg/day
03/89	BOD_5	75.80 kg/day*	88.0 kg/day
	BOD_5	15 mg/l **	19.4,15.2 mg/l
	BOD_5	113.70 kg/day**	135.7, 196.0 kg/day
	TSS	12 mg/l*	18.9 mg/l
	TSS	90.96 kg/day*	186.7 kg/day
	TSS	18 mg/l**	19.0,55.7 mg/l
	TSS	136.44 kg/day**	171.0, 587.8 kg/day

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Mason WWTP *(Muddy Creek: Warren Co.), cont.*			
04/89	TSS	18 mg/l**	34.2 mg/l
	TSS	136.44 kg/day**	296.6 kg/day
05/89	BOD_5	10 mg/l*	27.4 mg/l
	BOD_5	75.80 kg/day*	259.5 kg/day
	BOD_5	15 mg/l **	54.8,57.7 mg/l
	BOD_5	113.70 kg/day**	525.1, 611.1 kg/day
	TSS	12 mg/l*	40.6 mg/l
	TSS	90.96 kg/day*	428.7 kg/day
	TSS	18 mg/l**	97.0,66.1 mg/l
	TSS	136.44 kg/day**	900.4, 922.4kg/day
06/89	Chlorine Residual	0.5 mg/l***	exceeded 5 days
	Fecal coliforms	2000/100 ml***	1 week AK
07/89	BOD_5	10 mg/l*	23.3 mg/l
	BOD_5	75.80 kg/day*	223.6 kg/day
	BOD_5	15 mg/l**	60.4,37.7 mg/l
	BOD_5	113.70 kg/day**	612.6, 368.6 kg/day
	TSS	12 mg/l*	36.0 mg/l
	TSS	90.96 kg/day*	346.9 kg/day
	TSS	18 mg/l**	86.6,46.2 mg/l
	TSS	136.44 kg/day**	877.9, 443.7
07/89	Fecal coliforms	2000/100 ml**	4305 /100 ml
08/89	BOD_5	10 mg/l*	13.6 mg/l
	BOD_5	75.80 kg/day*	142.5 kg/day
	BOD_5	15 mg/l**	17.8,42.6 mg/l
	BOD_5	113.70 kg/day**	210.8, 462.5 kg/day
	TSS	12 mg/l*	86.5 mg/l
	TSS	90.96 kg/day*	1030.5 kg/day
	TSS	18 mg/l**	85.5,335.9 mg/l
	TSS	136.44 kg/day**	1048.6, 4048.5 kg/day
	Chlorine Residual	0.5 mg/l***	exceeded 3 days
	Fecal coliforms	2000/100 ml**	3793 /100 ml
09/89	Chlorine Residual	0.5 mg/l***	exceeded 4 days
11/89	BOD_5	75.80 kg/day*	77.1 kg/day
	BOD_5	15 mg/l**	16.9 mg/l
	BOD_5	113.70 kg/day**	197.9 kg/day
	TSS	90.96 kg/day**	124.5 kg/day
	TSS	18 mg/l**	25.2 mg/l
	TSS	136.44 kg/day**	296.7 kg/day

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Mason WWTP *(Muddy Creek: Warren Co.), cont.*			
12/89	TSS	12 mg/l*	19.7 mg/l
	TSS	90.96 kg/day*	105.9 kg/day
	TSS	18 mg/l**	30.5; 28 mg/l
	TSS	136.44 kg/day**	174.6; 163.1 kg/day
	Ammonia	2.5 mg/l*	3.22 mg/l
	Ammonia	5.0 mg/l**	11.26 mg/l
	Ammonia	37.90 kg/day**	46.4 kg/day
01/90	BOD_5	10 mg/l*	24.1 mg/l
	BOD_5	75.80 kg/day*	169.3 kg/day
	BOD_5	15 mg/l**	69; 16; 17 mg/l
	BOD_5	113.70 kg/day**	445.1; 113.8; 132.8 kg/day
	TSS	12 mg/l*	47.3 mg/l
	TSS	90.96 kg/day*	335.7 kg/day
	TSS	18 mg/l**	94; 69; 49 mg/l
	TSS	136.44 kg/day**	592.8; 504.7; 392.8 kg/day
02/90	BOD_5	10 mg/l*	41 mg/l
	BOD_5	75.80 kg/day*	503.17 kg/day
	BOD_5	15 mg/l**	53; 93 mg/l
	BOD_5	113.70 kg/day**	639.8; 116.5; 1221.2 kg/day
	TSS	12 mg/l*	97 mg/l
	TSS	90.96 kg/day*	1250.83 kg/day
	TSS	18 mg/l**	118; 23; 243 mg/l
	TSS	136.44 kg/day**	1434.1; 177.9; 3350.2 kg/day
03/90	BOD_5	10 mg/l*	10.6 mg/l
	BOD_5	75.80 kg/day*	87.93 kg/day
	BOD_5	15 mg/l**	29.5 mg/l
	BOD_5	113.70 kg/day**	260.11 kg/day
	TSS	12 mg/l*	40 mg/l
	TSS	90.96 kg/day*	361.01 kg/day
	TSS	18 mg/l**	149 mg/l
	TSS	136.44 kg/day**	1369.13 kg/day
04/90	BOD_5	10 mg/l*	27 mg/l
	BOD_5	75.80 kg/day*	343.03 kg/day
	BOD_5	15 mg/l**	124 mg/l
	BOD_5	113.70 kg/day**	1648.29 kg/day
	TSS	12 mg/l*	67 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Mason WWTP *(Muddy Creek: Warren Co.), cont.*			
04/90	TSS	90.96 kg/day*	880.61 kg/day
	TSS	18 mg/l**	356 mg/l
	TSS	136.44 kg/day**	4737.76 kg/day
	Oil & Grease	10 mg/l***	12 mg/l
	Residual Chlorine	0.5 mg/l***	0.6 mg/l
05/90	TSS	12 mg/l*	13.5 mg/l
	TSS	90.96 kg/day*	145.10 kg/day
	TSS	18 mg/l**	22 mg/l
	TSS	136.44 kg/day**	152.51; 301.36 kg/day
06/90	TSS	12 mg/l*	53 mg/l
	TSS	90.96 kg/day*	271.57 kg/day
	TSS	18 mg/l**	28; 148; 28 mg/l
	TSS	136.44 kg/day**	189.45; 353.68 kg/day
	BOD_5	15 mg/l**	18 mg/l
	Oil & Grease	10 mg/l***	28; 29 mg/l
	Residual Chlorine	0.5 mg/l***	0.55; 0.61; 0.60 mg/l
07/90	TSS	12 mg/l*	21 mg/l
	TSS	18 mg/l**	67 mg/l
	Residual Chlorine	0.5 mg/l***	0.60; 0.85 mg/l
08/90	BOD_5	10 mg/l*	13 mg/l
	BOD_5	15 mg/l**	33 mg/l
	TSS	12 mg/l*	17 mg/l
	TSS	18 mg/l**	38 mg/l
	Oil & Grease	10 mg/l**	14 mg/l
	Residual Chlorine	0.5 mg/l***	exceeded 12 days
	Fecal coliforms	2000/100 ml**	2276/100 ml
09/90	BOD_5	10 mg/l*	15 mg/l
	BOD_5	15 mg/l**	45 mg/l
	Fecal coliforms	2000/100 ml**	2848/100 ml
10/90	BOD_5	10 mg/l*	32 mg/l
	BOD_5	15 mg/l**	55; 74 mg/l
	Fecal coliforms	2000/100 ml**	54024/100 ml
	Fecal coliforms	1000/100 ml*	3950/100 ml
	TSS	12 mg/l*	218 mg/l
	TSS	18 mg/l**	745; 150; 114
11/90	TSS	12 mg/l*	20 mg/l
	TSS	18 mg/l**	62 mg/l
12/90	BOD_5	10 mg/l*	16.5 mg/l
	BOD_5	15 mg/l**	38.3 mg/l
	TSS	12 mg/l*	136.7 mg/l
	TSS	18 mg/l**	66.8; 36.8; 216; 227.3 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Mason WWTP *(Muddy Creek: Warren Co.), cont.*			
01/91	BOD_5	10 mg/l*	12 mg/l
	BOD_5	75.80 kg/day*	87.89 kg/day
	BOD_5	15 mg/l**	16 mg/l
	BOD_5	113.70 kg/day**	124.27 kg/day
	TSS	12 mg/l*	23 mg/l
	TSS	90.96 kg/day*	168.66 kg/day
	TSS	18 mg/l**	35; 24; 30 mg/l
	TSS	136.44 kg/day**	301.03; 173.38; 209.41 kg/l
	Ammonia	2.5 mg/l*	3.46 mg/l
	Ammonia	18.95 kg/day*	25.36 kg/day
	Ammonia	5.0 mg/l**	5.70 mg/l
	Ammonia	37.90 kg/day**	39.10 kg/day
02/91	BOD_5	10 mg/l*	20 mg/l
	BOD_5	15 mg/l**	23; 43 mg/l
	TSS	12 mg/l*	23 mg/l
	TSS	18 mg/l**	26; 46 mg/l
03/91	BOD_5	10 mg/l*	92 mg/l
	BOD_5	15 mg/l**	73; 94; 191 mg/l
	TSS	12 mg/l*	78 mg/l
	TSS	18 mg/l**	84; 163; 23; 43 mg/l
05/91	BOD_5	10 mg/l*	44 mg/l
	BOD_5	75.80 kg/day*	307.39 kg/day
	BOD_5	15 mg/l**	53; 64; 59 mg/l
	BOD_5	113.70 kg/day**	303.81; 530.25; 416.60 kg/day
	TSS	12 mg/l*	161 mg/l
	TSS	90.96 kg/day*	1354.22 kg/day
	TSS	18 mg/l**	86; 57; 141; 411 mg/l
	TSS	136.44 kg/day**	587.76; 351.55; 843.01;4218.87kg/day
05/91	Ammonia	1.5 mg/l*	5.32 mg/l
	Ammonia	11.37 kg/day*	36.45 kg/day
	Ammonia	2.0 mg/day**	4.47; 6.68; 10.40 mg/day
	Ammonia	15.16 kg/day**	25.83; 55.0; 76.37 kg/day
	Residual Chlorine	0.5 mg/l ***	exceeded 2 days
	Fecal coliforms	1000/100 ml*	AK
	Fecal coliforms	2000/100 ml**	2 averages AK
06/91	BOD_5	10 mg/l*	27 mg/l
	BOD_5	75.80 kg/day*	127.54 kg/day
	BOD_5	15 mg/l**	61; 17; 17; 44 mg/l
	BOD_5	113.70 kg/day**	290.79; 165.58 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Mason WWTP *(Muddy Creek: Warren Co.), cont.*			
	TSS	12 mg/l*	102 mg/l
	TSS	90.96 kg/day*	483.21 kg/day
	TSS	18 mg/l**	122; 53; 159; 94 mg/l
	TSS	136.44 kg/day**	852.53; 450.12 kg/day
	Ammonia	1.5 mg/l*	6.88 mg/l
	Ammonia	11.37 kg/day*	22.9 kg/day
	Ammonia	2.0 mg/l**	12.66; 9.77; 2.91; 2.32mg/l
	Ammonia	15.16 kg/day**	61.81; 53.75; 15.29 kg/day
	Residual Chlorine	0.5 mg/l***	exceeded 2 days
	Fecal coliforms	1000/100 ml*	>2704/100 ml
	Fecal coliforms	2000/100 ml**	AK; 13,654/100 ml
07/91	BOD_5	10 mg/l*	19 mg/l
	BOD_5	75.80 kg/day*	122.76 kg/day
	BOD_5	15 mg/l**	25; 24; 20 mg/l
	BOD_5	113.70 kg/day**	224.06; 129.31 kg/day
	TSS	12 mg/l*	30 mg/l
	TSS	90.96 kg/day*	205.54 kg/day
	TSS	18 mg/l**	45; 29; 28 mg/day
	TSS	136.44 kgday**	410.57; 155.19; 169.86 kg/day
	Ammonia	2.0 mg/l**	2.18 mg/l
	Fecal coliforms	1000/100 ml*	>22,350/100 ml
	Fecal coliforms	2000/100 ml**	2 AK; 19475; 15192/100ml
	Residual Chlorine	0.5 mg/l***	exceeded 1 day
08/91	TSS	30 mg/l*	59 mg/l
	TSS	284 kg/day*	332.5 kg/day
	TSS	45 mg/l**	74; 101 mg/l
	TSS	426 kg/day**	455; 551 kg/day
	Ammonia	1.5 mg//l*	1.52 mg/l
	Ammonia	2.0 mg/l**	2.51; 2.76 mg/l
	Oil & Grease	15 mg/l ***	19 mg/l
	Fecal coliforms	2000/100 ml**	AK; 3618/100 ml
	Residual Chlorine	0.5 mg/l***	exceeded 5 days
09/91	TSS	30 mg/l*	39 mg/l
	TSS	45 mg/l**	67; 47 mg/l
11/91	TSS	45 mg/l**	83 mg/l
12/91	TSS	284 kg/day*	293 kg/day
	TSS	45 mg/l**	118 mg/l
	TSS	426 kg/day**	1451 kg/day

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Mason WWTP *(Muddy Creek: Warren Co.), cont.*			
05/92	BOD_5	45 mg/l**	49 mg/l
06/92	Fecal coliforms	1000/100 ml*	2 weeks AK
	Oil & Grease	15 mg/l***	18.2 mg/l
07/92	TSS	30 mg/l*	41 mg/l
	TSS	284 kg/day**	296 kg/day
08/92	TSS	45 mg/l**	55 mg/l
10/92	Fecal coliforms	1000/100 ml*	14 days AK
11/92	TSS	30 mg/l*	44 mg/l
	TSS	284 kg/day*	411 kg/day
	TSS	45 mg/l**	60; 72 mg/l
	TSS	426 kg/day**	631; 659 kg/day
12/92	TSS	45 mg/l**	97 mg/l
	TSS	426 kg/day**	610 kg/day
01/93	TSS	30 mg/l*	74 mg/l
	TSS	284 kg/day*	805 kg/day
	TSS	45 mg/l**	87; 72; 72; 95 mg/l
	TSS	426 kg/day**	587; 712; 1099; 1149 kg/day
02/93	TSS	30 mg/l*	92 mg/l
	TSS	284 kg/day*	972 kg/day
	TSS	45 mg/l**	249; 84 mg/l
	TSS	426 kg/day**	2763; 917 kg/day
03/93	TSS	30 mg/l*	72 mg/l
	TSS	284 kg/day*	873 kg/day
	TSS	45 mg/l**	208 mg/l
	TSS	426 kg/day**	2873 kg/day
04/93	TSS	284 kg/day*	320 kg/day
	TSS	45 mg/l**	46; 45.4 mg/l
	TSS	426 kg/day**	473; 542 kg/day
09/93	TSS	45 mg/l**	61 mg/l
10/93	TSS	30 mg/l*	43 mg/l
	TSS	284 kg/day*	419 kg/day
	TSS	45 mg/l**	52; 122 mg/l
	TSS	426 kg/day**	483; 1271 kg/day

Note: No loading violation calculations are available from June - December 1990 as a result of the City's lack of a flow meter.

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River hasin including all exceedences of permit limits. Ohio Revised Code 6111.13 has provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Clermont Co. Middle East Fork WWTP *(East Fork Little Miami River)*			
01/90	Mercury	0.3 µg/l***	0.80 µg/l
02/90	Copper	23 µg/l*	25 µg/l
05/90	Copper	23 µg/l*	26 µg/l
	Copper	0.31 kg/day*	0.33 kg/day
	Residual Chlorine	0.5 mg/l***	0.54 mg/l
06/90	Copper	23 µg/l*	36 µg/l
	Copper	0.31 kg/day*	0.32 kg/l
07/90	Copper	23 µg/l*	32 µg/l
11/90	Mercury	0.3 µg/l***	0.8 µg/l
	Mercury	0.004 kg/day***	0.006 kg/day
12/90	Mercury	0.3 µg/l***	0.8 µg/l
	Mercury	0.004 kg/day***	0.009 kg/day
03/91	Mercury	0.3 µg/l***	0.5 µg/l
	Mercury	0.004 kg/day***	0.005 kg/day
04/91	Mercury	0.3 µg/l***	0.7 µg/l
	Mercury	0.004 kg/day***	0.0096 kg/day
05/91	Copper	23 µg/l*	36 µg/l
	Copper	0.31 kg/day*	0.32 kg/day
06/91	Copper	23 µg/l*	47 µg/l
	Copper	0.31 kg/day*	0.457 kg/day
07/91	Copper	23 µg/l*	61.2 µg/l
	Copper	0.31 kg/day*	0.54 kg/day
	Mercury	0.3 µg/l***	0.43 µg/l
08/91	Cadmium	2.0 µg/l	21 µg/l; 60.3 µg/l
09/91	Copper	23 µg/l*	55.8 µg/l
	Copper	0.31 kg/day*	0.58 kg/day
10/91	Fecal coliform	2000/100 ml**	AK
	Copper	23 µg/l*	40.3 µg/l
	Zinc	141 µg/l***	160 µg/l
11/91	Zinc	141 µg/l***	170; 180 µg/l
	Copper	23 µg/l*	37 µg/l
01/92	Mercury	0.06 µg/l*	0.27 µg/l
	Mercury	0.0009 kg/day*	0.0028 kg/day
02/92	Mercury	0.06 µg/l *	0.29 µg/l
02/92	Mercury	0.0009 kg/day*	0.002 kg/day
04/92	Mercury	0.06 µg/kg*	0.25 µg/l
	Mercury	0.0009 kg/day*	0.0028 kg/day
05/92	Copper	49 µg/l*	63 µg/l
06/92	Fecal coliform	2000/100 ml**	AK
01/93	Mercury	0.06 µg/l*	0.23 µg/l
	Mercury	0.0009 kg/day*	0.0026 kg/day
04/93	Mercury	0.06 µg/l*	0.11 µg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Clermont Co. Middle East Fork WWTP *(East Fork Little Miami River), cont.*			
	Mercury	0.0009 kg/day*	0.001 kg/day
Hamilton Co. MSD Polk Run WWTP *(Unnamed Tributary to Little Miami River)*			
1989	*no violations recorded*		
04/90	Residual Chlorine	0.5 mg/l***	1.5; 1.0; 1.0 mg/l
07/90	pH	6.5 S.U.(min)***	6.2 mg/l
08/90	Residual Chlorine	0.5 mg/l***	0.8 mg/l
04/91	D.O.	5.0 mg/l(min)***	2.7 mg/l
	Residual Chlorine	0.5 mg/l(min)***	7.44 mg/l
04/92	Residual Chlorine	0.5 mg/l(min)***	2.0 mg/l
06/93	Fecal coliform	2000/100ml**	2100/100ml
City of Batavia WWTP *(East Fork Little Miami River: Clermont Co.)*			
01/89	$CBOD_5$	40 mg/l**	65; 56; 58; 47 mg/l
	$CBOD_5$	25 mg/l*	52 mg/l
	TSS	30 mg/l*	45 mg/l
	TSS	45 mg/l**	62 mg/l
02/89	TSS	30 mg/l*	34 mg/l
	TSS	45 mg/l**	57 mg/l
	$CBOD_5$	25 mg/l*	45 mg/l
	$CBOD_5$	40 mg/l**	61; 70; 46 mg/l
03/89	TSS	30 mg/l*	31 mg/l
	$CBOD_5$	25 mg/l*	37 mg/l
	$CBOD_5$	40 mg/l**	63 mg/l
04/89	$CBOD_5$	25 mg/l*	31 mg/l
	TSS	30 mg/l*	33 mg/l
05/89	TSS	30 mg/l*	38 mg/l
	TSS	45 mg/l**	65 mg/l
	Fecal coliform	2000/100 ml**	exceeded 31 days
	Fecal coliform	1000/100ml	226,000/100 ml
06/89	Fecal coliform	1000/100 ml*	exceeded 30 days
	D.O.	3.0 mg/l***	violated 1 day
07/89	TSS	45 mg/l**	49 mg/l
	D.O.	3.0 mg/l***	violated 18 days
	Fecal coliform	1000/100 ml*	violated 30 days
08/89	D.O.	3.0 mg/l***	violated 31 days
	TSS	30 mg/l*	34 mg/l
	Fecal coliform	1000/100ml*	403,081/100 ml
	$CBOD_5$	25 mg/l*	26 mg/l
09/89	$CBOD_5$	40 mg/l**	43 mg/l
	$CBOD_5$	25 mg/l*	32 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 has provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Batavia WWTP *(East Fork Little Miami River: Clermont Co.), cont.*			
	TSS	45 mg/l**	61 mg/l
	D.O.	3.0 mg/l***	violated 23 days
10/89	$CBOD_5$	40 mg/l**	41; 50 mg/l
	$CBOD_5$	25 mg/l*	39 mg/l
	TSS	30 mg/l*	60 mg/l
	TSS	45 mg/l**	45; 55; 50; 151 mg/l
	D.O.	3.0 mg/l***	violated 29 days
11/89	D.O.	3.0 mg/l***	violated 10 days
	TSS	30 mg/l*	48 mg/l
	TSS	45 mg/l**	49; 52; 51; 47 mg/l
	CBOD5	25 mg/l*	34 mg/l
	CBOD5	40 mg/l**	42; 42 mg/l
12/89	CBOD5	25 mg/l*	64 mg/l
	CBOD5	40 mg/l**	69; 62; 60; 70 mg/l
	TSS	30 mg/l*	55 mg/l
	TSS	45 mg/l**	46; 80; 56 mg/l
	D.O.	2.0 mg/l***	1.7 mg/l
01/90	CBOD5	40 mg/l**	47; 71; 74; 49 mg/l
	CBOD5	25 mg/l*	51 mg/l
	TSS	30 mg/l*	70 mg/l
	TSS	45 mg/l**	101; 89; 70 mg/l
	D.O.	2.0 mg/l***	violated 3 days
02/90	TSS	30 mg/l*	34 mg/l
	TSS	45 mg/l**	58 mg/l
03/90	D.O.	2.0 mg/l***	violated 2 days
03/90	TSS	45 mg/l**	47 mg/l
04/90	D.O.	2.0 mg/l***	violated 3 days
07/90	Fecal coliform	1000/100 ml*	10,000/100 ml
	Fecal coliform	2000/100 ml**	40,000/100 ml
06/91	Fecal coliform	2000/100 ml**	AK one day
08/91	Fecal coliform	2000/100 ml**	AK two days
	Fecal coliform	1000/100 ml*	AK one day
10/91	Fecal coliform	2000/100 ml**	AK two days
	Fecal coliform	1000/100 ml*	AK one day
06/93	D.O.	6.0 mg/l***	violated 30 days
07/93	D.O.	6.0 mg/l***	violated 30 days

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Hamilton Co. MSD Sycamore WWTP *(Sycamore Creek)*			
10/90	Oil & Grease	10 mg/l***	11 mg/l
11/90	Oil & Grease	10 mg/l***	12.7 mg/l
12/90	TSS	853 kg/day**	1731 kg/day
	Hg	0.3 µg/l***	2.3 µg/l
	Oil & Grease	10 mg/l***	23.2 mg/l
02/91	Oil & Grease	10 mg/l***	23.9; 16.1; 13.7 mg/l
03/91	TSS	853 kg/day**	3609 kg/day
04/91	Oil & Grease	10 mg/l***	18; 13 mg/l
05/91	Fecal coliform	2000/100 ml**	2671/100 ml
12/91	Hg	0.3 µg/l***	1.0 µg/l
	Hg	0.007 kgday***	0.021; 0.008 kg/day
	Hg	0.003 kg/day*	0.015 kg/day
01/92	Hg	0.015 µg/l*	0.66 µg/l
	Hg	0.0003 kg/day*	0.02008 kg/day
	Hg	0.3 µg/l***	0.6; 6.1 µg/l
	Hg	0.007 kg/day***	0.0116; 0.021; 0.178 kg/day
05/92	pH	9.0 s.u. max***	exceeded 3 days
06/92	Hg	0.3 µg/l***	1.0 µg/l
08/92	Hg	0.02 µg/l*	0.46 µg/l
	Hg	0.3 µg/l***	0.6; 0.6; 0.6; 1.0 µg/l
09/92	Hg	0.007 kg/day***	0.008; 0.008 kg/day
	Hg	0.3 µg/l***	0.4; 0.5 µg/l
	Hg	0.0003 kg/day*	0.004 kg/day
	Hg	0.02 µg/l*	0.22 µg/l
11/92	Oil & Grease	10 mg/l***	19; 17; 39; 54; 12 mg/l\
	Hg	0.007 kg/day***	0.009 kg/day
	Hg	0.02 µg/l**	0.04 µg/l
	Hg	0.003 kg/day*	0.002 kg/day
12/92	Hg	0.02 µg/l*	0.06 µg/l
	Hg	0.0003 kg/day*	0.001 kg/day
07/92	Hg	0.3 µg/l***	0.4; 0.8; 0.4 µg/l
	Hg	0.007 kg/day***	0.018; 0.018; 0.007 kg/day
	Hg	0.015 µg/l*	0.47 µg/l
	Hg	0.0003 kg/day*	0.012 kg/day
02/93	Hg	0.02 µg/l*	0.05 µg/l
	Hg	0.0003 kg/day*	0.0014 kg/day
03/93	TSS	681 kg/day**	725 kg/day
09/93	Hg	0.02 µg/l*	0.05 µg/l
	Hg	0.0003 kg/day*	001 kg/day

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Cincinnati Milacron *(Turtle Creek: Warren County)*			
07/89	Ni	3770 µg/l*	4850 µg/l
04/91	Cu	2430 µg/l***	2740 µg/l
05/91	Ni	2866 µg/l***	4510 µg/l
	Fecal coliform	2000/100 ml**	4500/100 ml
05/92	Ni	2866 µg/l***	5070 µg/l
	Ni	0.833 kg/day***	1.707 kg/day
	Residual Chlorine	0.10 kg/day***	0.14 kg/day
08/92	Residual Chlorine	0.10 kg/day***	0.16 kg/day
04/93	Ag	22 µg/l	22.8 µg/l
07/93	Ag	0.0075 kg/day***	0.0111 kg/day
	Ag	22 µg/l***	30.3 µg/l
08/93	Cu	485 µg/l***	699; 703 µg/l
10/93	Ag	22 µg/l***	22.2; 70.4; 44.8 µg/l
	Ag	0.0075 kg/day***	0.0175; 0.011 kg/day
11/93	Ag	22 µg/l***	31.6; 52.4 µg/l
	Ag	0.0075 kg/day***	0.0115; 0.171 kg/day
	Cu	485 µg/l***	703 µg/l
Warren County Lower Little Miami River WWTP *(Simpson Creek)*			
01/90	Ammonia	2.50 mg/l*	2.87 mg/l
	Ammonia	14.2 kg/d (monthly load)	22.5 kg/day
	Ammonia	28.4 kg/d (weekly load)	29.7 kg/day
02/90	Ammonia	5.0 mg/l**	6.86 mg/l
	Ammonia	28.4 kg/day (weekly load)	63.5, 32.4, 29.0 kg/d
	Ammonia	25.0 mg/l*	3.77 mg/l
	Ammonia	14.2 kg/day (monthly load)	34.7 kg/day
	TSS	170 kg/day (weekly load)	178.7 kg/day
03/90	Ammonia	2.50 mg/l*	4.50 mg/l
	Ammonia	5.00 mg/l*	10.22 mg/l
	Ammonia	14.2 kg/day (monthly load)	32.6 kg/day
	Ammonia	28.4 kg/day (weekly load)	73.9, 36.4 kg/day
04/90	Ammonia	14.2 kg/d (monthly load)	17.9 kg/d
05/90	TSS	170 kg/d (monthly load)	177.7 kg/d
	Ammonia	8.5 kg/d (monthly load)	34.5 kg/d
	Ammonia	1.50 mg/l*	3.1 mg/l
	Ammonia	2.00 mg/l**	2.25, 2.90, 2.20, 2.03 mg/l
	Ammonia	11.4 kg/d (weekly load)	30.2, 23.7, 36.2, 17.5 kg/d
06/90	Ammonia	1.50 mg/l*	7.92 mg/l
	Ammonia	8.50 kg/d (monthly load)	66.7 kg/d
	Ammonia	2.00 mg/l**	8.23, 6.06, 7.24, 10.43 mg/l
07/90	Ammonia	1.50 mg/l*	9.95mg/l
	Ammonia	2.00 mg/l**	8.75 mg/l

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
Warren County Lower Little Miami River WWTP *(Simpson Creek), cont.*			
	Ammonia	2.00 mg/l**	10.86 mg/l
	Ammonia	2.00 mg/l**	7.8 mg/l
	Ammonia	2.00 mg/l**	12.0 mg/l
09/90	Ammonia	1.50 mg/l*	2.43 mg/l
	Ammonia	8.5 kg/d (monthly load)	17.6 kg/d
	Ammonia	2.00 mg/l**	3.43, 2.86 mg/l
	Ammonia	11.4 kg/d (weekly load)	21.9, 13.6, 24.9 kg/d
12/90	pH	9.0 max	1 day exceedance
02/92	Ammonia	7.5 mg/l*	7.9 mg/l
	Ammonia	10.5 mg/l**	10.86 mg/l
04/92	Ammonia	7.5 mg/l*	9.7 mg/l
	Ammonia	10.5 mg/l**	11.2 mg/l
	Ammonia	10.5 mg/l**	11.7 mg/l
	TSS	20mg/l *	22 mg/l
	TSS	30mg/l**	31 mg/l
06/93	Ammonia	1.2 mg/l**	1.75 mg/l
Clermont County Lower East Fork WWTP *(East Fork Little Miami River)*			
05/90	D.O.	5.0mg/l***	4.7 ***
06/90	D.O.	5.0mg/l	4.9 mg/l ***
06/90	D.O.	5.0mg/l (min)***	4.9 mg/l***
07/90	D.O.	5.0 mg/l***	4.4 mg/l***
07/90	D.O.	5.0 mg/l (min)***	4.8 mg/l***
03/91	Hg	.30ug/l	.50 ug/l
07/91	pH	6.5, 5.4	exceeded 1 day
07/91	Fecal Coliform	2000/100ml**	AK/100ml
07/91	Ammonia	9.6mg/l**	10.75mg/l
07/91	Ammonia	6.91mg/l*	8.4 mg/l
09/91	Fecal Coliform	2000/100ml**	AK/100ml**
09/91	Fecal Coliform	1000/100ml **	AK/100ml**
09/91	Ammonia	9.6mg/l**	10 mg/l**
09/91	Ammonia	6.4mg/l*	7.14mg/l*
10/91	Ammonia	9.6mg/l**	11.9mg/l**
10/91	Ammonia	6.4mg/l*	8.7mg/l*
07/92	D.O.	5.0mg/l*	4.9mg/l*
05/92	Fecal Coliform	2000/100ml**	3200/100ml**
05/92	Fecal Coliform	2000/100ml**	3185/100ml**
05/92	Hg	.30ug/l***	.40ug/l***
08/92	Fecal Coliform	2000/100ml**	AK/100ml
07/93	CN	- /901	Not Reported

Appendix Table A-3. NPDES permit violations for dischargers in the Little Miami River basin including all exceedences of permit limits. Ohio Revised Code 6111.13 details provisions regarding enforcement of Water Quality Based effluent limits below the Practical Quantification Limits (Note: * - monthly average, ** - weekly average, *** - daily maximum, AK - too numerous to count), continued.

ENTITY DATE	PARAMETER	PERMIT LIMITATION	VALUE REPORTED
City of Milford WWTP *(East Fork Little Miami River)*			
10/91	Fecal Coliform	2000/100ml**	AK=1 day
03/92	TSS	45 mg/l**	83.5 mg/l
	TSS	30 mg/l*	40mg/l
	TSS	85 kg/day	99.7 kg/day
	TSS	124 kg/day	140.7 kg/day
09/92	TSS	45 mg/l**	56 mg/l
	TSS	30 mg/l*	31.4 mg/l
	TRC	0.5 mg/l***	1.5, 0.9 mg/l
11/92	TSS	45 mg/l**	74; 83 mg/l
	TSS	30 mg/l *	47mg/l
	TSS	85 kg/day	122 kg/day
	TSS	128 kg/day	182; 148 kg/day
03/93	TSS	45 mg/l**	82 mg/l
	TSS	128 mg/kg **	276 mg/kg
	TSS	30 mg/l*	30.7 mg/l
	TSS	85 mg/kg*	106.6 mg/kg

Appendix Table A-4, continued.

STORET M01W12 SITE LOCATION YELLOWSPRING
RIVER MILE 0.44 ESE UPST YELLOW SPG WWTP

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	17.6	8.5	8.21			1.2	K 5.0	23	30	651	
07/13/93	18.0	9.6	8.08			K 1.0	K 5.0	11	29	622	
07/27/93	18.5	8.6	8.04			K 1.0	K 5.0	15	34	715	
08/10/93	16.0	9.7				K 1.0	K 5.0	K 10	37	704	
08/24/93	18.0	8.6				K 1.0	K 5.0	10	77	716	
09/07/93	16.1	9.2				K 1.0	K 5.0	16	37	706	
Average	17.36	9.03	8.110			1.03	K 5.00	14.1	40.6	685.6	
Maximum	18.5	9.7	8.21			1.2	K 5.0	23	77	716	
Minimum	16.0	8.5	8.04			K 1.0	K 5.0	K 10	29	622	

STORET M01W12 RM 0.44

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	6.60	0.09	0.05	0.40				0.16	412	23
07/13/93	5.14	0.02	K 0.05	0.30				0.06	438	14
07/27/93	4.40	K 0.02	K 0.05	0.20				K 0.05	432	6
08/10/93	3.80	K 0.02	K 0.05	0.50		8.29		K 0.05	538	K 5
08/24/93	4.24	K 0.02	K 0.05	K 0.20		8.15		0.28	466	K 5
09/07/93	3.75	K 0.02	K 0.05	K 0.20		8.20		0.07	442	6
Average	4.654	0.031	0.050	0.300		8.213		0.111	454.6	9.8
Maximum	6.60	0.09	0.05	0.50		8.29		0.28	538	23
Minimum	3.75	K 0.02	K 0.05	K 0.20		8.15		K 0.05	412	K 5

Appendix Table A-4, continued.

STORET M01W12 RM 0.44

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	4050	11400	4100	K 2	K 0.2	80	K 30	K 10	1180	K 2	33	26		K 40	K 2	11	336
07/13/93	2600	2600	1400	K 2	K 0.2	85	K 30	K 10	462	K 2	35	21		K 40	K 2	11	356
07/27/93	320	510	190	3	K 0.2	82	K 30	K 10	174	K 2	39	K 10		K 40	K 2	K 10	365
08/10/93	14	510	40	K 2	K 0.2	75	K 30	K 10	145	K 2	39	13		K 40	K 2	K 10	348
08/24/93	100	920	140	K 2	K 0.2	89	K 30	K 10	133	K 2	39	K 10		K 40	2	K 10	383
09/07/93	10	600	20	2	K 0.2	87	K 30	K 10	225	K 2	39	12		K 40	K 2	K 10	378
Average	1182.3	2756.6	981.6	2.1	K 0.20	83.0	K 30.0	K 10.0	386.5	K 2.0	37.3	15.3		K 40.0	2.0	10.3	361.0
Maximum	4050	11400	4100	3	K 0.2	89	K 30	K 10	1180	K 2	39	26		K 40	2	11	383
Minimum	10	510	20	K 2	K 0.2	75	K 30	K 10	133	K 2	33	K 10		K 40	K 2	K 10	336

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S40 SITE LOCATION YELLOW SPRINGS
RIVER MILE 0.42 #38 YELLOW SPGS WWTP MIX

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	18.0	8.1	8.00			1.4	K 5.0	31	53	748	K 5
07/13/93	18.1	8.8	7.91	0.07			K 5.0	13			
07/27/93	19.5	8.2	8.12	0.08		K 1.0	K 5.0	K 10	95	936	K 5
08/10/93	18.5	9.5		0.07		K 1.0	K 5.0	10	70	844	K 5
08/24/93	19.5	6.8		0.38		2.0	K 5.0	71	43	1050	K 5
09/07/93	17.0	8.5		0.02		K 1.0	K 5.0	16	97	945	K 5
Average	18.43	8.31	8.010	0.124		1.28	K 5.00	25.1	71.6	904.6	K 5.0
Maximum	19.5	9.5	8.12	0.38		2.0	K 5.0	71	97	1050	K 5
Minimum	17.0	6.8	7.91	0.02		K 1.0	K 5.0	K 10	43	748	K 5

STORET M01S40 RM 0.42

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	7.03	0.09	0.06	0.60			K 10	0.64	488	21
07/13/93	4.41		0.33	0.60			K 10	0.15		
07/27/93	3.15	0.03	K 0.05	0.40			K 10	1.07	574	5
08/10/93	4.62	0.02	K 0.05	0.60		8.31	K 10	0.89	624	5
08/24/93	3.24	0.21	3.37	4.10		8.08	K 10	1.93	670	6
09/07/93	7.30	K 0.02	K 0.05	0.70		8.22	K 10	1.24	596	7
Average	4.958	0.074	0.651	1.166		8.203	K 10	0.986	590.4	8.8
Maximum	7.30	0.21	3.37	4.10		8.31	K 10	1.93	670	21
Minimum	3.15	K 0.02	K 0.05	0.40		8.08	K 10	0.15	488	5

Appendix Table A-4, continued.

STORET M01S40 RM 0.42

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93				K 2	K 0.2	82	K 30	K 10	1120	K 2	33	27		K 40	K 2	15	341
07/13/93	1200	620	800	K 2	K 0.2	94	K 30	K 10	388	K 2	36	39		K 40	K 2	51	383
07/27/93	170	610	420	4	K 0.2	85	K 30	K 10	141	K 2	39	K 10	K 0.20	K 40	K 2	K 10	373
08/10/93	28	640	40	K 2	K 0.2	82	K 30	K 10	139	K 2	39	10	0.22	K 40	K 2	15	365
08/24/93	170	740	130	K 4	K 0.2	97	K 30	K 10	165	K 2	39	35	K 0.20	K 40	K 2	K 10	403
09/07/93	60	780	50	K 2	K 0.2	93	K 30	K 10	183	K 2	40	13	K 0.20	K 40	K 2	34	397
Average	325.6	678.0	288.0	2.6	K 0.20	88.8	K 30.0	K 10.0	356.0	K 2.0	37.6	22.3	0.205	K 40.0	K2.0	22.5	377.0
Maximum	1200	780	800	4	K 0.2	97	K 30	K 10	1120	K 2	40	39	0.22	K 40	K 2	51	403
Minimum	28	610	40	K 2	K 0.2	82	K 30	K 10	139	K 2	33	K 10	K 0.20	K 40	K 2	K 10	341

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01P09 SITE LOCATION YELLOWSPRING
RIVER MILE 0.10 #39 GRINNELL RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	17.8	8.2	7.99			1.2	K 5.0	18	43	707	
07/13/93	18.2	9.1	7.90			K 1.0	K 5.0	10	42	697	
07/27/93	18.8	8.6	7.61			K 1.0	K 5.0	K 10	58	822	
08/10/93	16.7	9.3				K 1.0	K 5.0	12	67	841	
08/24/93	18.7	7.8				K 1.0	K 5.0	12	43	899	
09/07/93	17.0	9.1				K 1.0	K 5.0	11	77	870	
Average	17.86	8.68	7.833			1.03	K 5.00	12.1	55.0	806.0	
Maximum	18.8	9.3	7.99			1.2	K 5.0	18	77	899	
Minimum	16.7	7.8	7.61			K 1.0	K 5.0	K 10	42	697	

STORET M01P09 RM 0.10

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	6.56	0.09	0.05	0.50				0.31	462	27
07/13/93	4.63	0.12	0.08	0.40				0.12	466	13
07/27/93	3.78	K 0.02	K 0.05	0.20				0.31	494	K 5
08/10/93	4.07	0.02	K 0.05	0.50		8.31		0.74	634	K 5
08/24/93	3.60	0.15	1.42	1.70		8.13		0.90	580	K 5
09/07/93	4.79	K 0.02	K 0.05	0.30		8.30		0.52	560	K 5
Average	4.571	0.070	0.283	0.600		8.247		0.483	532.6	10.0
Maximum	6.56	0.15	1.42	1.70		8.31		0.90	634	27
Minimum	3.60	K 0.02	K 0.05	0.20		8.13		0.12	462	K 5

Appendix Table A-4, continued.

STORET M01P09 RM 0.10

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	2200	8300	4400	K 2	K 0.2	83	K 30	K 10	1570	2	34	54		K 40	K 2	55	347
07/13/93	1240	790	580	K 2	K 0.2	90	K 30	K 10	403	K 2	36	24		K 40	K 2	20	373
07/27/93	210	410	100	3	K 0.2	86	K 30	K 10	116	K 2	39	K 10		K 40	K 2	44	375
08/10/93	14	630	10	K 2	K 0.4	82	K 30	K 10	76	K 2	40	K 10		K 40	K 2	19	369
08/24/93	80	1400	95	K 2	K 0.2	92	K 30	K 10	109	K 2	40	K 10		K 40	K 2	K 10	399
09/07/93	40	970	30	3	K 0.2	94	K 30	K 10	390	K 2	41	29		K 40	K 2	14	404
Average	630.6	2083.3	869.1	2.3	0.23	87.8	K 30.0	K 10.0	444.0	2.0	38.3	22.8		K 40.0	K2.0	27.0	377.8
Maximum	2200	8300	4400	3	K 0.4	94	K 30	K 10	1570	2	41	54		K 40	K 2	55	404
Minimum	14	410	10	K 2	K 0.2	82	K 30	K 10	76	K 2	34	K 10		K 40	K 2	K 10	347

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S13 SITE LOCATION OLDTOWNCREEK
RIVER MILE 0.10 #41 NEAR MOUTH

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/13/93	22.0	10.7	8.17			K 1.0	K 5.0	11	37	621	
08/10/93	18.0	10.6				K 1.0	K 5.0	10	43	715	
08/24/93	23.5	9.0				K 1.0	K 5.0	14	42	709	
09/21/93	17.1	8.3				K 1.0	K 5.0	K 10	37	710	
Average	20.14	9.64	8.170			K 1.00	K 5.00	11.2	39.7	688.7	
Maximum	23.5	10.7	8.17			K 1.0	K 5.0	14	43	715	
Minimum	17.1	8.3	8.17			K 1.0	K 5.0	K 10	37	621	

STORET M01S13 RM 0.10

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/13/93	3.82	K 0.02	K 0.05	K 0.20				K 0.05	420	9
08/10/93	K 0.10	K 0.02				8.38		K 0.05	556	K 5
08/24/93		0.02	K 0.05	0.20		8.23		0.06	444	K 5
09/21/93	6.26	K 0.02	K 0.05	0.20		8.31		K 0.05	492	K 5
Average	3.393	0.020	K 0.05	0.200		8.307		0.052	478.0	6.0
Maximum	6.26	0.02	K 0.05	0.20		8.38		0.06	556	9
Minimum	3.82	K 0.02	K 0.05	K 0.20		8.23		K 0.05	420	K 5

Appendix Table A-4, continued.

STORET M01S13 RM 0.10

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/13/93	370	830	460	K 2	K 0.2	82	K 30	K 10	339	K 2	31	11		K 40	K 2	K 10	332
08/10/93	23	1040	50	K 2	K 0.2	84	K 30	K 10	145	K 2	37	K 10		K 40	K 2	K 10	362
08/24/93	130	1000	170	K 2	K 0.2	81	45	K 10	61	K 2	36	K 10		K 40	K 2	K 10	351
09/21/93	180	480	140	K 2	K 0.2	87	K 30	K 10	K 50	K 2	37	K 10		K 40	K 2	40	370
Average	175.7	837.5	205.0	K 2.0	K 0.20	83.5	33.7	K 10.0	148.7	K 2.0	35.2	10.2		K 40.0	K 2.0	17.5	353.7
Maximum	370	1040	460	K 2	K 0.2	87	45	K 10	339	K 2	37	11		K 40	K 2	40	370
Minimum	23	480	50	K 2	K 0.2	81	K 30	K 10	K 50	K 2	31	K 10		K 40	K 2	K 10	332

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION [illegible]
RIVER MILE [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	21.0	8.4	8.02			K 1.0	K 5.0	19	28	612	
07/13/93	22.5	10.0	8.20			K 1.0	K 5.0	12	22	594	
07/27/93	23.0	8.3	7.63			K 1.0	K 5.0	K 10	26	639	
08/10/93	19.0	11.5				K 1.0	K 5.0	13	30	690	
08/24/93	23.0	7.6				K 1.0	K 5.0	10	42	716	
09/07/93	19.5	9.0				K 1.0	K 5.0	12	35	705	
09/21/93	18.0	10.0				K 1.0	K 5.0	12	40	746	
Average	20.85	9.25	7.950			K 1.00	K 5.00	12.5	31.8	671.7	
Maximum	23.0	11.5	8.20			K 1.0	K 5.0	19	42	746	
Minimum	18.0	7.6	7.63			K 1.0	K 5.0	K 10	22	594	

STORET 600560 RM 0.25

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	3.48	0.03	K 0.05	0.30				0.13	418	18
07/13/93	7.89	0.02	K 0.05	0.20				0.08	408	49
07/27/93	2.87	K 0.02	K 0.05	K 0.20				K 0.05	408	5
08/10/93	2.33	0.02	K 0.05	0.50		8.43		K 0.05	552	K 5
08/24/93	3.37	0.02	K 0.05	K 0.20		8.31		0.06	474	K 5
09/07/93	3.00	K 0.02	K 0.05	0.20		8.36		0.08	446	K 5
09/21/93	3.28	K 0.02	K 0.05	0.30		8.38		0.07	464	K 5
Average	3.745	0.021	K 0.050	0.271		8.37		0.074	452.8	13.1
Maximum	7.89	0.03	K 0.05	0.50		8.43		0.13	552	49
Minimum	2.33	K 0.02	K 0.05	K 0.20		8.31		K 0.05	408	K 5

Appendix Table A-4, continued.

STORET 600560 RM 0.25

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	1210	3700	1630	2	K 0.2	77	K 30	K 10	967	K 2	33	22		K 40	K 2	10	328
07/13/93	1620	550	910	K 2	K 0.2	84	K 30	K 10	1710	K 2	33	47		K 40	K 2	K 10	346
07/27/93	400	460	470	3	K 0.2	80	K 30	K 10	181	K 2	38	K 10		K 40	K 2	K 10	356
08/10/93	23	330	40	K 2	K 0.2	80	K 30	K 10	68	K 2	41	K 10		K 40	K 2	K 10	369
08/24/93	110	450	160	K 2	K 0.2	85	K 30	K 10	92	K 2	39	K 10		K 40	2	K 10	313
09/07/93	20	460	50	2	K 0.2	84	K 30	K 10	130	K 2	39	K 10		K 40	K 2	12	370
09/21/93	631	470	540	K 2	K 0.2	86	K 30	K 10	67	K 2	41	K 10		K 40	K 2	K 10	384
Average	573.4	917.1	542.8	2.1	K 0.20	82.2	K 30.0	K 10.0	459.2	K 2.0	37.7	17.0		K 40.0	2.0	10.2	352.2
Maximum	1620	3700	1630	3	K 0.2	86	K 30	K 10	1710	K 2	41	47		K 40	2	12	384
Minimum	20	330	40	K 2	K 0.2	77	K 30	K 10	67	K 2	33	K 10		K 40	K 2	K 10	313

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S37 SITE LOCATION BEAVER CREEK
RIVER MILE 1.57 #43 DAYTON-XENIA RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	18.0	7.4	7.64			1.4	5.4	49	20	533	
07/13/93	20.0	7.8	7.50			1.1	K 5.0	14	29	632	
07/27/93	17.7	8.5	7.74			K 1.0	K 5.0	K 10	25	724	
08/10/93	16.4	8.1	7.87			K 1.0	K 5.0	K 10	25	711	
08/24/93	18.6	8.6	7.77			K 1.0	K 5.0	10	27	708	
09/07/93	17.1	8.9	7.82			K 1.0	K 5.0	K 10	29	706	
09/21/93	16.5	7.8	7.79			K 1.0	K 5.0	K 10	26	699	
Average	17.75	8.15	7.732			1.07	5.06	16.1	25.8	673.2	
Maximum	20.0	8.9	7.87			1.4	5.4	49	29	724	
Minimum	16.4	7.4	7.50			K 1.0	K 5.0	K 10	20	533	

STORET M01S37 RM 1.57

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	1.45	0.05	K 0.05	0.50				0.14	360	155
07/13/93	1.65	0.03	K 0.05	0.30				0.07	404	60
07/27/93	2.04	K 0.02	K 0.05	K 0.20				0.12	442	12
08/10/93	1.96	K 0.02	K 0.05	0.30				1.74	502	8
08/24/93	1.92	0.02	K 0.05	K 0.20				0.07	464	10
09/07/93	1.92	0.02	K 0.05	0.30				K 0.05	440	18
09/21/93	1.98	K 0.02	K 0.05	0.20				0.06	434	7
Average	1.845	0.025	K 0.050	0.285				0.321	435.1	38.5
Maximum	2.04	0.05	K 0.05	0.50				1.74	502	155
Minimum	1.45	K 0.02	K 0.05	K 0.20				K 0.05	360	7

Appendix Table A-4, continued.

STORET M01S37 RM 1.57

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	6820	7100	2300	2	K 0.2	79	K 30	K 10	5290	2	27	201		K 40	K 2	22	308
07/13/93	1700	18500	2100	K 2	K 0.4	84	K 30	K 10	2360	K 2	32	139		K 40	K 2	12	342
07/27/93	847	2500	630	K 2	K 0.2	95	K 30	K 10	727	K 2	38	56		K 40	K 2	K 10	394
08/10/93	60	890	70	K 2	K 0.2	98	K 30	K 10	495	K 2	38	32		K 40	K 2	K 10	401
08/24/93	520	1800	530	K 4	K 0.2	99	K 30	K 10	507	K 2	37	37		K 40	K 2	K 10	400
09/07/93	40	1080	180	K 2	K 0.2	98	K 30	K 10	808	K 2	36	56		K 40	K 2	16	393
09/21/93	340	630	280	K 2	K 0.2	96	K 30	K 10	358	K 2	36	28		K 40	K 2	K 10	388
Average	1475.2	4642.8	870.0	2.2	0.22	92.7	K 30.0	K 10.0	1506.4	2.0	34.8	78.4		K 40.0	K 2.0	12.8	375.1
Maximum	6820	18500	2300	4	K 0.4	99	K 30	K 10	5290	2	38	201		K 40	K 2	22	401
Minimum	40	630	70	K 2	K 0.2	79	K 30	K 10	358	K 2	27	28		K 40	K 2	K 10	308

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01W56 SITE LOCATION BEAVER CREEK
RIVER MILE 1.04 #44 U.S 35

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
08/24/93	21.8	8.8	7.76			K 1.0	K 5.0	36	93	872	
06/29/93	18.0	7.9	7.64			1.3	K 5.0	36	41	648	
07/13/93	20.4	8.0	7.75			K 1.0	K 5.0	18	56	680	
07/27/93	22.6	9.5	7.86			K 1.0	K 5.0	17	77	839	
08/10/93	18.8	8.4	8.12			K 1.0	K 5.0	21	93	910	
09/07/93	19.5	9.4	8.01			1.0	K 5.0	19	95	870	
09/21/93	17.8	8.3	7.82			K 1.0	K 5.0	33	116		
Average	19.84	8.61	7.851			1.04	K 5.00	25.7	81.5	803.2	
Maximum	22.6	9.5	8.12			1.3	K 5.0	36	116	910	
Minimum	17.8	7.9	7.64			K 1.0	K 5.0	17	41	648	

STORET M01W56 RM 1.04

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
08/24/93	3.95	0.02	K 0.05	0.50				0.82	542	10
06/29/93	2.01	0.05	0.07	0.50				0.34	394	59
07/13/93	2.03	0.04	K 0.05	0.30				0.24	440	41
07/27/93	3.81	0.04	K 0.05	0.30				0.63	530	10
08/10/93	3.67	0.06	K 0.05	0.90				0.95	612	8
09/07/93	4.51	0.06	K 0.05	0.60				0.80	524	12
09/21/93	4.57	0.07	K 0.05	0.70				1.10		10
Average	3.507	0.048	0.052	0.542				0.697	507.0	21.4
Maximum	4.57	0.07	0.07	0.90				1.10	612	59
Minimum	2.01	0.02	K 0.05	0.30				0.24	394	8

Appendix Table A-4, continued.

STORET M01W56 RM 1.04

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
08/24/93	280	920	290	K 4	K 0.2	72	K 30	K 10	415	K 2	30	26		K 40	K 2	20	303
06/29/93	2400	6400	1300	K 2	K 0.2	68	K 30	K 10	2380	3	23	91		K 40	K 2	24	265
07/13/93	2300		1010	K 2	K 0.2	77	K 30	K 10	1480	K 2	27	79		K 40	K 2	21	303
07/27/93	721	440	650	K 2	K 0.2	84	K 30	K 10	417	K 2	35	28		K 40	K 2	11	354
08/10/93	58	700	90	K 2	K 0.2	76	K 30	K 10	339	K 2	33	25		K 40	K 2	27	326
09/07/93	50	660	180	K 2	K 0.2	75	K 30	K 10	591	K 2	30	37		K 40	K 2	32	311
09/21/93	530	270	470	K 2	K 0.2	75	K 30	K 10	325	2	31	20		K 40	K 2	22	315
Average	905.5	1565.0	570.0	2.2	K 0.20	75.2	K 30.0	K 10.0	849.5	2.1	29.8	43.7		K 40.0	K 2.0	22.4	311.0
Maximum	2400	6400	1300	K 4	K 0.2	84	K 30	K 10	2380	3	35	91		K 40	K 2	32	354
Minimum	50	270	90	K 2	K 0.2	68	K 30	K 10	325	K 2	23	20		K 40	K 2	11	265

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S36 SITE LOCATION BEAVER CREEK
RIVER MILE 0.39 ABV BEAVER CREEK WWTP MIX

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	19.9	8.3	7.67	0.11		1.1	K 5.0	48	47	671	K 5
07/13/93	20.2	8.1	7.68	0.07		K 1.0	K 5.0	15	74	745	K 5
07/27/93	22.4	12.9	8.24	0.21		1.0	K 5.0	K 10	98	925	K 5
08/10/93	18.9	7.4	7.89	0.13		K 1.0	K 5.0	18	196	1300	K 5
08/24/93	21.5	10.0	7.63	0.19		K 1.0	K 5.0	12	168	1130	K 5
09/07/93	19.5	9.1	7.85	0.13		1.0	K 5.0	18	123	967	K 5
09/21/93	18.5	7.6	7.58	0.09		K 1.0	7.0	35	200	869	K 5
Average	20.12	9.05	7.791	0.132		1.01	5.28	22.2	129.4	943.8	K 5.0
Maximum	22.4	12.9	8.24	0.21		1.1	7.0	48	200	1300	K 5
Minimum	18.5	7.4	7.58	0.07		K 1.0	K 5.0	K 10	47	671	K 5

STORET M01S36 RM 0.39

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	2.17	0.04	K 0.05	0.50			K 10	0.34	410	46
07/13/93	2.60	0.03	K 0.05	0.20			K 10	0.36	468	30
07/27/93	3.82	0.03	K 0.05	0.20			K 10	3.09	566	10
08/10/93	7.16	0.04	K 0.05	0.70			K 10	1.22	814	6
08/24/93	6.53	0.02	K 0.05	0.70			K 10	1.27	708	K 5
09/07/93	5.67	0.06	K 0.05	0.80			K 10	1.07	580	8
09/21/93	8.97	0.03	K 0.05	1.20			K 10	1.89	850	8
Average	5.274	0.035	K 0.050	0.614			K 10	1.319	628.0	16.1
Maximum	8.97	0.06	K 0.05	1.20			K 10	3.09	850	46
Minimum	2.17	0.02	K 0.05	0.20			K 10	0.34	410	K 5

Appendix Table A-4, continued.

STORET M01S36 RM 0.39

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	1600	3000	1400	K 2	K 0.2	68	K 30	K 10	1910	2	25	69		K 40	K 2	10	273
07/13/93	1220	24200	1080	K 2	K 0.2	75	K 30	K 10	1320	K 2	29	66		K 40	K 2	25	307
07/27/93	470	160	350	K 2	K 0.2	84	K 30	K 10	369	K 2	35	25	K 0.20	K 40	K 2	K 10	354
08/10/93	24	250	20	4	K 0.2	84	K 30	K 10	198	K 2	34	18	K 0.20	K 40	K 2	24	350
08/24/93	120	330	180	K 2	K 0.2	80	K 30	K 10	135	K 2	32	13	K 0.20	K 40	K 2	25	332
09/07/93	140	440	350	K 2	K 0.2	78	K 30	K 10	372	K 2	31	26	K 0.20	K 40	K 2	31	322
09/21/93	560	220	310	K 2	K 0.2	84	K 30	10	223	K 2	34	21	K 0.20	K 40	K 2	28	350
Average	590.5	4085.7	527.1	2.2	K 0.20	79.0	K 30.0	10.0	646.7	2.0	31.4	34.0	K 0.20	K 40.0	K 2.0	21.8	326.8
Maximum	1600	24200	1400	4	K 0.2	84	K 30	10	1910	2	35	69	K 0.2	K 40	K 2	31	354
Minimum	24	160	20	K 2	K 0.2	68	K 30	K 10	135	K 2	25	13	K 0.2	K 40	K 2	K 10	273

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S35 SITE LOCATION BEAVER CREEK
RIVER MILE 0.20 #46 DST BEAVER CREEK WWTP

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	19.4	8.4	7.72			1.2	K 5.0	26	69	745	
07/13/93	20.0	7.8	7.60			K 1.0	K 5.0	19	79	791	
07/27/93	21.7	11.4	8.13			1.0	K 5.0	K 10	124	1040	
08/10/93	19.0	7.4	7.89			K 1.0	K 5.0	19	154	1140	
08/24/93	21.9	9.1	7.72			K 1.0	K 5.0	15	176	1160	
09/07/93	19.1	8.5	7.80			K 1.0	K 5.0	11	176	1190	
09/21/93	18.1	7.2	7.55			K 1.0	6.0	14	200	1080	
Average	19.88	8.54	7.772			1.02	5.14	16.2	139.7	1020.8	
Maximum	21.9	11.4	8.13			1.2	6.0	26	200	1190	
Minimum	18.1	7.2	7.55			K 1.0	K 5.0	K 10	69	745	

STORET M01S35 RM 0.20

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	2.45	0.04	K 0.05	0.50				0.38	450	51
07/13/93	3.03	0.03	K 0.05	0.30				0.38	480	27
07/27/93	4.94	0.03	K 0.05	0.40				0.97	618	8
08/10/93	5.75	0.05	K 0.05	0.80				1.01	750	8
08/24/93	6.26	0.02	K 0.05	0.30				1.26	712	8
09/07/93	6.68	0.04	K 0.05	0.80				1.19	693	7
09/21/93	7.99	0.03	K 0.05	1.00				1.67	782	6
Average	5.299	0.034	K 0.050	0.585				0.980	640.7	16.4
Maximum	7.99	0.05	K 0.05	1.00				1.67	782	51
Minimum	2.45	0.02	K 0.05	0.30				0.38	450	6

Appendix Table A-4, continued.

STORET M01S35 RM 0.20

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	2500	1050	1700	K 2	K 0.2	70	K 30	K 10	2070	3	25	68		K 40	K 2	16	278
07/13/93	1300	17000	1200	K 2	K 0.2	79	K 30	10	1060	K 2	27	57		K 40	K 2	20	308
07/27/93	370	160	200	3	K 0.2	85	K 30	K 10	267	K 2	35	22		K 40	K 2	14	356
08/10/93	3	30	K 10	18	K 0.2	80	K 30	K 10	266	K 2	33	21		K 40	K 2	30	336
08/24/93	90	60	20	K 2	K 0.2	80	K 30	K 10	299	K 2	31	21		K 40	K 2	28	357
09/07/93	55	240	260	2	K 0.2	81	K 30	K 10	330	K 2	32	24		K 40	K 2	35	334
09/21/93	170	120	110	K 2	K 0.2	81	K 30	K 10	282	K 2	33	19		K 40	K 2	27	338
Average	641.1	2665.7	500.0	4.4	K 0.20	79.4	K 30.0	10.0	653.4	2.1	30.8	33.1		K 40.0	K 2.0	24.2	329.5
Maximum	2500	17000	1700	18	K 0.2	85	K 30	10	2070	3	35	68		K 40	K 2	35	357
Minimum	3	30	K 10	K 2	K 0.2	70	K 30	K 10	266	K 2	25	19		K 40	K 2	14	278

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01W01 SITE LOCATION LITTLEBEAVER
RIVER MILE 4.62 #47 UPST EASTERN REG WWTP

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	20.7	6.0	7.52			2.0	K 5.0	21	15	226	
07/13/93	28.8	10.6	7.99			1.5	K 5.0	16	22	307	
07/27/93	24.1	6.3	7.47			1.8	K 5.0	K 10	61	730	
08/10/93	23.2	10.8	8.20			2.5	K 5.0	20	56	660	
08/24/93	24.4	6.4	7.47			1.0	K 5.0	14	46	553	
09/07/93	25.3	12.0	8.13			2.0	K 5.0	22	32	390	
09/21/93	20.4	11.8	8.01			1.0	K 5.0	13	53	1110	
Average	23.84	9.12	7.827			1.68	K 5.00	16.5	40.7	568.0	
Maximum	28.8	12.0	8.20			2.5	K 5.0	22	61	1110	
Minimum	20.4	6.0	7.47			1.0	K 5.0	K 10	15	226	

STORET M01W01 RM 4.62

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	0.69	0.05	0.13	0.40				0.18	150	55
07/13/93	0.87	0.03	K 0.05	K 0.20				K 0.05	202	6
07/27/93	0.64	0.03	K 0.05	0.30				K 0.05	452	K 5
08/10/93	0.57	0.03	K 0.05	0.70				0.16	510	6
08/24/93	0.73	0.04	K 0.05	0.30				0.08	366	K 5
09/07/93	0.77	0.03	K 0.05	0.40				0.06	242	5
09/21/93	0.82	0.02	K 0.05	0.40				0.07	396	K 5
Average	0.727	0.032	0.061	0.385				0.092	331.1	12.4
Maximum	0.87	0.05	0.13	0.70				0.18	510	55
Minimum	0.57	0.02	K 0.05	K 0.20				K 0.05	150	K 5

Appendix Table A-4, continued.

STORET M01W01 RM 4.62

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	7270	16000	5300	K 2	K 0.2	26	K 30	K 10	3090	5	7	76		K 40	K 2	16	94
07/13/93	360	16600	210	2	K 0.2	37	K 30	K 10	260	K 2	11	34		K 40	K 2	10	138
07/27/93	230	310	180	K 2	K 0.2	79	K 30	K 10	69	K 2	33	68		K 40	K 2	10	333
08/10/93	18	180	20	K 2	K 0.2	69	K 30	K 10	149	K 2	30	41		K 40	K 2	K 10	296
08/24/93	310	520	320	K 2	K 0.2	61	K 30	K 10	82	K 2	23	27		K 40	3	K 10	247
09/07/93	80	90	40	K 2	0.2	43	K 30	K 10	196	K 2	15	50		K 40	K 2	K 10	169
09/21/93	330	110	270	K 2	K 0.2	71	K 30	K 10	125	K 2	28	32		K 40	K 2	K 10	293
Average	1228.2	4830.0	905.7	2.0	0.20	55.1	K 30.0	K 10.0	567.2	2.4	21.0	46.8		K 40.0	2.1	10.8	224.2
Maximum	7270	16600	5300	2	0.2	79	K 30	K 10	3090	5	33	76		K 40	3	16	333
Minimum	18	90	20	K 2	K 0.2	26	K 30	K 10	69	K 2	7	27		K 40	K 2	K 10	94

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLEBEAVER
RIVER MILE [illegible] [illegible] DST EASTERN REG WWTP

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	20.1	7.6	7.41			2.0	5.2	33	69	811	
07/13/93	24.0	8.5	7.92			1.6	8.5	24	137	936	
07/27/93	22.1	7.3	7.47			1.6	5.0	13	106	882	
08/10/93	21.7	8.3	8.10			1.3	6.3	19	146	1160	
08/24/93	23.4	7.4	7.04			1.0	6.0	23	112	885	
09/07/93	22.6	9.0	7.95			2.0	6.0	19	143	990	
09/21/93	20.5	8.7	7.77			2.0	9.0	25	131	1410	
Average	22.05	8.11	7.665			1.64	6.59	22.2	120.5	1010.5	
Maximum	24.0	9.0	8.10			2.0	9.0	33	146	1410	
Minimum	20.1	7.3	7.04			1.0	5.0	13	69	811	

STORET M01S38 RM 4.53

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	3.96	0.07	0.12	0.80				0.99	504	23
07/13/93	4.94	0.17	0.28	1.30				1.23	580	K 5
07/27/93	6.02	0.06	0.14	1.10				1.35	552	K 5
08/10/93	3.79	0.02	K 0.05	1.10				1.62	780	K 5
08/24/93	4.98	0.02	K 0.05	0.70				2.04	544	K 5
09/07/93	6.27	0.02	K 0.05	1.00				1.68	580	K 5
09/21/93	5.71	0.02	0.05	1.30				1.82	680	K 5
Average	5.095	0.054	0.105	1.042				1.532	602.8	7.5
Maximum	6.27	0.17	0.28	1.30				2.04	780	23
Minimum	3.79	0.02	K 0.05	0.70				0.99	504	K 5

Appendix Table A-4, continued.

STORET M01S38 RM 4.53

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	1700	7400	1600	K 2	K 0.2	46	K 30	K 10	963	4	20	40		K 40	K 2	32	197
07/13/93	250	1430	230	K 2	K 0.2	52	K 30	K 10	79	K 2	25	24		K 40	K 2	39	233
07/27/93	190	280	160	K 2	K 0.2	61	K 30	K 10	82	4	30	36		K 40	K 2	52	276
08/10/93	33	170	30	K 2	K 0.2	52	K 30	K 10	94	K 2	28	14		K 40	K 2	66	245
08/24/93	K 10	290	150	K 4	K 0.2	52	K 30	K 10	93	2	24	13		K 40	K 2	90	229
09/07/93	30	120	150	K 2	K 0.2	51	K 30	K 10	154	3	23	34		K 40	K 2	27	222
09/21/93	190	90	15	K 2	K 0.2	58	K 30	K 10	134	3	25	32		K 40	K 2	41	248
Average	343.2	1397.1	333.5	2.2	K 0.20	53.1	K 30.0	K 10.0	228.4	2.8	25.0	27.5		K 40.0	K 2.0	49.5	235.7
Maximum	1700	7400	1600	K 4	K 0.2	61	K 30	K 10	963	4	30	40		K 40	K 2	90	276
Minimum	K 10	90	15	K 2	K 0.2	46	K 30	K 10	79	K 2	20	13		K 40	K 2	27	197

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLEBEAVER
RIVER MILE 1.95 [illegible] NORTH FAIRFIELD RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	19.5	6.6	7.44			1.7	K 5.0	32	56	708	
07/13/93	23.1	7.0	7.83			1.0	6.1	17	85	775	
07/27/93	21.1	6.5	7.81			1.0	K 5.0	16	112	949	
08/10/93	20.3	7.8	8.60			1.1	K 5.0	22	119	996	
08/24/93	22.5	6.4	7.40			K 1.0	K 5.0	14	111	949	
09/07/93	20.5	8.0	8.04			1.0	K 5.0	22	108	844	
09/21/93	19.0	6.7	7.65			K 1.0	6.0	14	126	1030	
Average	20.85	7.00	7.824			1.11	5.30	19.5	102.4	893.0	
Maximum	23.1	8.0	8.60			1.7	6.1	32	126	1030	
Minimum	19.0	6.4	7.40			K 1.0	K 5.0	14	56	708	

STORET M01S03 RM 1.95

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	2.75	0.07	0.12	0.60				0.59	434	14
07/13/93	2.50	0.04	K 0.05	0.40				0.72	462	K 5
07/27/93	5.40	0.07	K 0.05	0.50				3.77	570	K 5
08/10/93	3.16	0.04	K 0.05	0.70				1.15	636	K 5
08/24/93	4.64	0.02	K 0.05	0.50				1.20	554	K 5
09/07/93	4.93	0.03	K 0.05	0.60				1.12	500	K 5
09/21/93	5.07	0.08	K 0.05	0.80				1.45	622	K 5
Average	4.064	0.050	0.060	0.585				1.428	539.7	6.2
Maximum	5.40	0.08	0.12	0.80				3.77	636	14
Minimum	2.50	0.02	K 0.05	0.40				0.59	434	K 5

Appendix Table A-4, continued.

STORET M01S03 RM 1.95

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Nl-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93				K 2	K 0.2	55	K 30	K 10	678	3	21	41		K 40	K 2	19	224
07/13/93				K 2	K 0.2	56	K 30	K 10	203	K 2	24	36		K 40	K 2	24	239
07/27/93				K 2	K 0.2	70	K 30	K 10	136	3	33	29		K 40	K 2	25	311
08/10/93				K 2	K 0.2	65	K 30	K 10	114	K 2	30	23		K 40	K 2	38	286
08/24/93				K 2	K 0.2	60	K 30	K 10	85	K 2	26	17		K 40	K 2	29	257
09/07/93				K 2	K 0.2	57	K 30	K 10	135	K 2	24	24		K 40	K 2	17	241
09/21/93				K 2	K 0.2	67	K 30	K 10	115	2	28	23		K 40	K 2	22	283
Average				K 2.0	K 0.20	61.4	K 30.0	K 10.0	209.4	2.2	26.5	27.5		K 40.0	K 2.0	24.8	263.0
Maximum				K 2	K 0.2	70	K 30	K 10	678	3	33	41		K 40	K 2	38	311
Minimum				K 2	K 0.2	55	K 30	K 10	85	K 2	21	17		K 40	K 2	17	224

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE BEAVER
RIVER MILE 0.05 #51 FACTORY RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	19.1	7.9	7.57			1.2	K 5.0	43	50	695	
07/13/93	21.1	7.8	8.20			K 1.0	K 5.0	13	81	759	
07/27/93	21.6	10.1	7.99			1.0	K 5.0	K 10	110	910	
08/10/93	19.5	8.4	8.16			1.0	K 5.0	16	119	992	
08/24/93	22.5	9.2	7.85			K 1.0	K 5.0	12	116	919	
09/07/93	19.9	10.2	8.13			2.0	K 5.0	13	121	938	
09/21/93	18.3	8.5	7.93			K 1.0	6.0	26	134	1200	
Average	20.28	8.87	7.975			1.17	5.14	19.0	104.4	916.1	
Maximum	22.5	10.2	8.20			2.0	6.0	43	134	1200	
Minimum	18.3	7.8	7.57			K 1.0	K 5.0	K 10	50	695	

STORET 600630 RM 0.05

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	2.35	0.05	0.09	0.60				0.44	420	11
07/13/93	2.40	0.04	K 0.05	0.30				1.68	474	K 5
07/27/93	4.87	0.06	K 0.05	0.50				1.00	574	5
08/10/93	4.36	0.08	K 0.05	1.00				1.56	642	6
08/24/93	4.68	0.02	K 0.05	0.70				1.15	574	K 5
09/07/93	5.67	0.08	K 0.05	0.70				1.07	560	K 5
09/21/93	5.22	0.08	K 0.05	0.80				1.44	658	K 5
Average	4.221	0.058	0.055	0.657				1.191	557.4	6.0
Maximum	5.67	0.08	0.09	1.00				1.68	658	11
Minimum	2.35	0.02	K 0.05	0.30				0.44	420	K 5

Appendix Table A-4, continued.

STORET 600630 RM 0.05

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	3500	6300	2000	K 2	K 0.2	60	K 30	K 10	610	2	22	34		K 40	K 2	21	240
07/13/93	901	13000	470	K 2	K 0.2	68	K 30	K 10	140	K 2	25	23		K 40	K 2	23	273
07/27/93	883	970	610	K 2	K 0.2	75	K 30	K 10	182	K 2	34	17		K 40	K 2	11	327
08/10/93	44	440	30	K 2	K 0.2	68	K 30	K 10	142	K 2	31	12		K 40	K 2	34	297
08/24/93	370	490	300	K 2	K 0.2	65	K 30	K 10	91	K 2	28	K 10		K 40	K 2	24	278
09/07/93	60	360	30	K 2	K 0.2	66	K 30	K 10	134	K 2	28	13		K 40	K 2	20	280
09/21/93	540	410	390	K 2	K 0.2	70	K 30	K 10	126	2	29	10		K 40	K 2	84	294
Average	899.7	3138.5	547.1	K 2.0	K 0.20	67.4	K 30.0	K 10.0	203.5	2.0	28.1	17.0		K 40.0	K 2.0	31.0	284.1
Maximum	3500	13000	2000	K 2	K 0.2	75	K 30	K 10	610	2	34	34		K 40	K 2	84	327
Minimum	44	360	30	K 2	K 0.2	60	K 30	K 10	91	K 2	22	K 10		K 40	K 2	11	240

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S34 SITE LOCATION GLADY_RUN
RIVER MILE 4.82 #52 UPST GLADY WWTP SWALE

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93		8.0	7.60			K 1.0	K 5.0	12	47	724	
07/13/93	12.7	8.7	7.43			K 1.0	K 5.0	K 10	60	751	
07/27/93	14.2	8.4	7.79			K 1.0	K 5.0	K 10	57	839	
08/10/93	12.5	8.6	7.58			K 1.0	K 5.0	13	56	777	
08/24/93	15.1	9.0	7.59			K 1.0	K 5.0	K 10	59	774	
09/07/93	13.1	8.6	7.47			K 1.0	K 5.0	12	61	792	
09/21/93	13.0	8.0	7.44			K 1.0	K 5.0	K 10	60	810	
Average	13.43	8.47	7.557			K 1.00	K 5.00	11.0	57.1	781.0	
Maximum	15.1	9.0	7.79			K 1.0	K 5.0	13	61	839	
Minimum	12.7	8.0	7.43			K 1.0	K 5.0	K 10	47	724	

STORET M01S34 RM 4.82

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	4.33	0.02	K 0.05	K 0.20				K 0.05	462	7
07/13/93	4.61	K 0.02	K 0.05	K 0.20				K 0.05	472	11
07/27/93	4.55	K 0.02	K 0.05	K 0.20				0.08	468	K 5
08/10/93	4.57	0.02	K 0.05	0.30				K 0.05	534	10
08/24/93	4.32	0.02	K 0.05	0.30				0.05	478	6
09/07/93	4.64	K 0.02	K 0.05	0.20				K 0.05	474	17
09/21/93	4.67	K 0.02	K 0.05	0.20				0.06	466	9
Average	4.527	0.020	K 0.050	0.228				0.055	479.1	9.2
Maximum	4.67	0.02	K 0.05	0.30				0.08	534	17
Minimum	4.32	K 0.02	K 0.05	K 0.20				K 0.05	462	K 5

Appendix Table A-4, continued.

STORET M01S34 RM 4.82

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93				K 2	K 0.2	91	K 30	K 10	460	K 2	29	51		K 40	K 2	K 10	347
07/13/93	811	20200	660	K 2	K 0.2	102	48	K 10	1080	K 2	35	72		K 40	K 2	103	399
07/27/93	410	1270	250	K 2	K 0.2	96	K 30	K 10	229	K 2	35	37		K 40	K 2	K 10	384
08/10/93	60	1900	120	K 2	K 0.2	94	K 30	K 10	259	2	34	38		K 40	K 2	50	375
08/24/93	420	890	320	K 2	K 0.2	95	K 30	K 10	174	K 2	33	33		K 40	K 2	K 10	373
09/07/93	30	840	220	2	K 0.2	99	K 30	K 10	344	K 2	36	53		K 40	K 2	45	395
09/21/93	470	780	400	K 2	K 0.2	95	K 30	K 10	290	K 2	35	52		K 40	K 2	27	381
Average	366.8	4313.3	328.3	2.0	K 0.20	96.0	32.5	K 10.0	405.1	2.0	33.8	48.0		K 40.0	K 2.0	36.4	379.1
Maximum	811	20200	660	2	K 0.2	102	48	K 10	1080	2	36	72		K 40	K 2	103	399
Minimum	30	780	120	K 2	K 0.2	91	K 30	K 10	174	K 2	29	33		K 40	K 2	K 10	347

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S33 SITE LOCATION GLADY RUN
RIVER MILE 4.75 #63 DST GLADY WWTP SWALE

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	18.0	7.4	7.55			1.6	K 5.0	25	78	812	6
07/13/93	17.3	7.3	7.24	0.16		1.1	K 5.0	25	99	918	K 5
07/27/93	18.8	8.9	7.84	0.15		1.0	K 5.0	11	104	1010	K 5
08/10/93	17.5	6.1	7.85	0.10		K 1.0	K 5.0	18	103	1030	K 5
08/24/93	20.4	7.5	7.55	0.24		2.0	K 5.0	18	131	1100	K 5
09/07/93	18.4	7.1	7.53	0.14		1.0	K 5.0	19	116	1040	5
09/21/93	17.8	7.0	7.45	0.10		K 1.0	K 5.0	18	111	1050	K 5
Average	18.31	7.32	7.572	0.148		1.24	K 5.00	19.1	106.0	994.2	5.1
Maximum	20.4	8.9	7.85	0.24		2.0	K 5.0	25	131	1100	6
Minimum	17.3	6.1	7.24	0.10		K 1.0	K 5.0	11	78	812	K 5

STORET M01S33 RM 4.75

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	7.12	0.27	0.10	0.60				0.83	550	12
07/13/93	8.66	0.05	K 0.05	0.80			K 10	1.00	612	9
07/27/93	8.31	0.05	K 0.05	0.70			K 10	0.98	638	5
08/10/93	8.85	0.08	0.06	1.00			K 10	1.05	697	8
08/24/93	9.80	0.07	0.07	1.10			K 10	1.38	676	7
09/07/93	10.20	0.06	0.05	1.00			K 10	1.33	646	6
09/21/93	10.70	0.08	0.07	1.10			K 10	1.46	662	9
Average	9.091	0.094	0.064	0.900			K 10	1.147	640.1	8.0
Maximum	10.70	0.27	0.10	1.10			K 10	1.46	697	12
Minimum	7.12	0.05	K 0.05	0.60			K 10	0.83	550	5

Appendix Table A-4, continued.

STORET M01S33 RM 4.75

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93				K 2	K 0.4	84	K 30	K 10	818	3	28	53	K 0.20	K 40	K 2	25	325
07/13/93	946	26700	640	K 2	K 0.2	100	K 30	K 10	244	K 2	34	36		K 40	K 2	44	390
07/27/93	30	30	K 10	K 2	K 0.2	101	K 30	K 10	204	K 2	36	22	K 0.20	K 40	K 2	26	400
08/10/93	86	560	240	K 2	K 0.2	99	K 30	K 10	186	K 2	36	25	K 0.20	K 40	K 2	21	395
08/24/93	420	470	420	K 2	K 0.2	101	K 30	K 10	123	K 2	35	15	K 0.20	K 40	K 2	18	396
09/07/93	30	650	30	K 2	K 0.2	102	K 30	K 10	220	K 2	37	27	K 0.20	K 40	K 2	37	407
09/21/93	370	540	300	K 2	K 0.2	98	K 30	K 10	290	K 2	34	30	K 0.20	K 40	K 2	75	385
Average	313.7	4825.0	273.3	K 2.0	0.22	97.8	K 30.0	K 10.0	297.8	2.1	34.2	29.7	K 0.20	K 40.0	K 2.0	35.1	385.4
Maximum	946	26700	640	K 2	K 0.4	102	K 30	K 10	818	3	37	53	K 0.2	K 40	K 2	75	407
Minimum	30	30	K 10	K 2	K 0.2	84	K 30	K 10	123	K 2	28	15	K 0.2	K 40	K 2	18	325

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01P15 SITE LOCATION CLADY RUN
RIVER MILE 0.60 ROUTE 624 S.R. 725

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	18.3	8.6				K 1.0	K 5.0	12	39	662	
07/13/93	15.5	9.7				K 1.0	K 5.0	K 10	70	822	
07/27/93	16.0	10.8				K 1.0	K 5.0	K 10	81	904	
08/10/93	13.5	10.5				K 1.0	K 5.0	13	88	940	
08/24/93	15.0	9.7				K 1.0	K 5.0	K 10	85	912	
09/07/93	13.0	10.8				K 1.0	K 5.0	11	84	890	
09/21/93	11.5	10.6				K 1.0	K 5.0	21	77	860	
Average	14.68	10.09				K 1.00	K 5.00	12.4	74.8	855.7	
Maximum	18.3	10.8				K 1.0	K 5.0	21	88	940	
Minimum	11.5	8.6				K 1.0	K 5.0	K 10	39	662	

STORET M01P15 RM 0.60

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	4.92	0.05	0.07	0.20				0.30	448	17
07/13/93	6.04	0.14	K 0.05	0.20		8.33		0.41	548	10
07/27/93	6.24	0.03	K 0.05	0.40		8.40		0.58	560	K 5
08/10/93	7.92	0.02	K 0.05	0.50		8.35		0.56	710	K 5
08/24/93	7.09	0.03	K 0.05	0.30		8.18		0.67	572	8
09/07/93	6.79	0.02	K 0.05	0.40		8.40		0.61	564	K 5
09/21/93	6.98	K 0.02	K 0.05	0.40		8.31		0.55	536	8
Average	6.568	0.044	0.052	0.342		8.34		0.525	562.5	8.2
Maximum	7.92	0.14	0.07	0.50		8.40		0.67	710	17
Minimum	4.92	K 0.02	K 0.05	0.20		8.18		0.30	448	K 5

Appendix Table A-4, continued.

STORET M01P15 RM 0.60

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93				2	K 0.2	73	K 30	K 10	1730	K 2	25	56		K 40	K 2	13	285
07/13/93				K 2	K 0.2	95	K 30	K 10	329	K 2	34	18		K 40	K 2	K 10	377
07/27/93				2	K 0.2	99	K 30	K 10	51	K 2	36	K 10		K 40	K 2	19	395
08/10/93				K 2	K 0.2	98	K 30	K 10	95	K 2	34			K 40	K 2	K. 10	385
08/24/93				K 2	K 0.2	97	K 30	K 10	394	K 2	35	16		K 40	K 2	K 10	386
09/07/93				K 2	K 0.2	98	K 30	K 10	227	K 2	35	17		K 40	5	K 10	389
09/21/93	540	810	490	K 2	K 0.2	94	K 30	K 10	207	K 2	35	15		K 40	K 2	K 10	379
Average	540.0	810.0	490.0	2.0	K 0.20	93.4	K 30.0	K 10.0	433.2	K 2.0	33.4	22.0		K 40.0	2.4	11.7	370.8
Maximum	540	810	490	2	K 0.2	99	K 30	K 10	1730	K 2	36	56		K 40	5	19	395
Minimum	540	810	490	K 2	K 0.2	73	K 30	K 10	51	K 2	25			K 40	K 2	K 10	285

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01P31 SITE LOCATION NEWMAN RUN
RIVER MILE 0.27 [illegible] PENN-WAYNESVILLE RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	14.7	8.3				K 1.0	K 5.0	19	16	549	
Average	14.7	8.3				K 1.00	K 5.00	19.0	16.0	549.0	
Maximum	14.7	8.3				K 1.0	K 5.0	19	16	549	
Minimum	14.7	8.3				K 1.0	K 5.0	19	16	549	

STORET M01P31 RM 0.27

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	1.91	K 0.02	K 0.05	0.30				0.10	374	7
Average	1.91	K 0.020	K 0.050	0.300				0.100	374.0	7.0
Maximum	1.91	K 0.02	K 0.05	0.30				0.10	374	7
Minimum	1.91	K 0.02	K 0.05	0.30				0.10	374	7

Appendix Table A-4, continued.

STORET M01P31 RM 0.27

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93				K 2	K 0.2	79	K 30	K 10	212	K 2	25	K 10		K 40	K 2	K 10	300
Average				K 2.0	K 0.20	79.0	K 30.0	K 10.0	212.0	K 2.0	25.0	K 10.0		K 40.0	K 2.0	K 10.0	300.0
Maximum				K 2	K 0.2	79	K 30	K 10	212	K 2	25	K 10		K 40	K 2	K 10	300
Minimum				K 2	K 0.2	79	K 30	K 10	212	K 2	25	K 10		K 40	K 2	K 10	300

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION MILL RUN
RIVER MILE [illegible] [illegible] U.S. 42

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	19.2	8.8				K 1.0	K 5.0	34	22	538	
Average	19.2	8.8				K 1.00	K 5.00	34.0	22.0	538.0	
Maximum	19.2	8.8				K 1.0	K 5.0	34	22	538	
Minimum	19.2	8.8				K 1.0	K 5.0	34	22	538	

STORET M01P30 RM 0.59

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	1.00	K 0.02	K 0.05	0.20				0.07	370	K 5
Average	1.00	K 0.020	K 0.050	0.200				0.070	370.0	K 5.0
Maximum	1.00	K 0.02	K 0.05	0.20				0.07	370	K 5
Minimum	1.00	K 0.02	K 0.05	0.20				0.07	370	K 5

Appendix Table A-4, continued.

STORET M01P30 RM 0.59

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93				K 2	K 0.2	74	K 30	K 10	108	K 2	25	K 10		K 40	K 2	K 10	288
Average				K 2.0	K 0.20	74.0	K 30.0	K 10.0	108.0	K 2.0	25.0	K 10.0		K 40.0	K 2.0	K 10.0	288.0
Maximum				K 2	K 0.2	74	K 30	K 10	108	K 2	25	K 10		K 40	K 2	K 10	288
Minimum				K 2	K 0.2	74	K 30	K 10	108	K 2	25	K 10		K 40	K 2	K 10	288

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M02S01 SITE LOCATION ANDERSON_FK
RIVER MILE 4.90 #57 OLD WINCHESTER TRAIL

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	19.9	8.4				K 1.0	K 5.0	18	18	574	
08/12/93	18.5	7.7				K 1.0	K 5.0	K 10	36	676	
08/26/93	21.0	8.4				K 1.0	K 5.0	14	36	691	
09/23/93	17.9	5.7	6.61			K 1.0	K 5.0	13	29	678	
Average	19.32	7.54	6.61			K 1.00	K 5.00	13.7	29.7	654.7	
Maximum	21.0	8.4	6.61			K 1.0	K 5.0	18	36	691	
Minimum	17.9	5.7	6.61			K 1.0	K 5.0	K 10	18	574	

STORET M02S01 RM 4.90

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	7.55	0.02	K 0.05	0.70				0.17	400	98
08/12/93	0.81	0.02	K 0.05	0.30		8.09		0.05	474	8
08/26/93	0.48	0.02	K 0.05	0.50		8.16		0.44	452	12
09/23/93	K 0.10	K 0.02	K 0.05	0.40		8.03		K 0.05	392	K 5
Average	2.234	0.020	K 0.050	0.475		8.093		0.177	429.5	30.7
Maximum	7.55	0.02	K 0.05	0.70		8.16		0.44	474	98
Minimum	K 0.10	K 0.02	K 0.05	0.30		8.03		K 0.05	392	K 5

Appendix Table A-4, continued.

STORET M02S01 RM 4.90

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93				K 2	K 0.2	79	K 30	K 10	2610	K 2	31	58		K 40	K 2	23	325
08/12/93				K 2	K 0.2	71	K 30	K 10	465	K 2	41	33		K 40	K 2	K 10	346
08/26/93				K 2	K 0.2	74	K 30	K 10	595	K 2	43	53		K 40	K 2	K 10	362
09/23/93				K 2	K 0.2	72	K 30	K 10	257	K 2	38	48		K 40	K 2	12	336
Average				K 2.0	K 0.20	74.0	K 30.0	K 10.0	981.7	K 2.0	38.2	48.0		K 40.0	K 2.0	13.7	342.2
Maximum				K 2	K 0.2	79	K 30	K 10	2610	K 2	43	58		K 40	K 2	23	362
Minimum				K 2	K 0.2	71	K 30	K 10	257	K 2	31	33		K 40	K 2	K 10	325

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M02P07 SITE LOCATION FLAT_FORK
RIVER MILE 1.70 #58 OREGONIA RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	20.0	5.5				1.0	7.0	27	21	404	
08/12/93	19.1	2.9				5.9	36.0	128	36	445	
09/23/93	16.7	1.1	7.27			2.9	14.0	48	19	562	
Average	18.59	3.16	7.27			3.26	19.00	67.6	25.3	470.3	
Maximum	20.0	5.5	7.27			5.9	36.0	128	36	562	
Minimum	16.7	1.1	7.27			1.0	7.0	27	19	404	

STORET M02P07 RM 1.70

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	4.23	0.07	K 0.05	0.80		7.90		0.24	312	13
08/12/93	0.28	0.04	0.84	8.00		7.78		0.98	356	36
09/23/93	K 0.10	K 0.02	0.08	1.30		7.69		0.33	354	8
Average	1.536	0.043	0.323	3.366		7.789		0.516	340.6	19.0
Maximum	4.23	0.07	0.84	8.00		7.90		0.98	356	36
Minimum	K 0.10	K 0.02	K 0.05	0.80		7.69		0.24	312	8

Appendix Table A-4, continued.

STORET M02P07 RM 1.70

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93	240	460	210	3	K 0.2	51	K 30	K 10	764	K 2	16	121		K 40	K 2	21	193
08/12/93				12	K 0.2	46	K 30	K 10	1870	K 2	21	1250		K 40	K 2	29	201
09/23/93	1320	170	1130	4	K 0.2	74	K 30	K 10	465	K 2	21	1060		K 40	K 2	35	271
Average	780.0	315.0	670.0	6.3	K 0.20	57.0	K 30.0	K 10.0	1033.0	K 2.0	19.3	810.3		K 40.0	K 2.0	28.3	221.6
Maximum	1320	460	1130	12	K 0.2	74	K 30	K 10	1870	K 2	21	1250		K 40	K 2	35	271
Minimum	240	170	210	3	K 0.2	46	K 30	K 10	465	K 2	16	121		K 40	K 2	21	193

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M02P13 SITE LOCATION CAESAR_CREEK
RIVER MILE 16.52 #59 PAINTERSVILLE RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	19.5	7.8				K 1.0	K 5.0	19	25	581	
08/12/93	16.1	6.6				K 1.0	K 5.0	K 10	22	636	
08/26/93	13.5	8.2				K 1.0	K 5.0	K 10	17	623	
09/23/93	14.4	3.2	7.02			K 1.0	K 5.0	10	18	659	
Average	15.87	6.44	7.02			K 1.00	K 5.00	12.2	20.5	624.7	
Maximum	19.5	8.2	7.02			K 1.0	K 5.0	19	25	659	
Minimum	13.5	3.2	7.02			K 1.0	K 5.0	K 10	17	581	

STORET M02P13 RM 16.52

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	4.09	K 0.02	K 0.05	0.30		8.27		0.09	400	32
08/12/93	1.46	0.02	K 0.05	K 0.20		7.88		0.12	384	7
08/26/93	1.98	0.03	K 0.05	K 0.20		7.64		1.89	372	6
09/23/93	1.71	0.03	K 0.05	0.30		7.61		K 0.05	376	K 5
Average	2.309	0.025	K 0.050	0.250		7.849		0.537	383.0	12.5
Maximum	4.09	0.03	K 0.05	0.30		8.27		1.89	400	32
Minimum	1.46	K 0.02	K 0.05	K 0.20		7.61		K 0.05	372	K 5

Appendix Table A-4, continued.

STORET M02P13 RM 16.52

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93				2	K 0.2	74	K 30	K 10	987	K 2	32	38		K 40	K 2	K 10	317
08/12/93				K 2	K 0.2	77	K 30	K 10	305	K 2	32	40		K 40	K 2	K 10	324
08/26/93				K 2	K 0.2	86	K 30	K 10	120	K 2	32	61		K 40	K 2	52	347
09/23/93	80	130	90	K 2	K 0.2	87	K 30	K 10	59	K 2	31	84		K 40	K 2	K 10	345
Average	80.0	130.0	90.0	2.0	K 0.20	81.0	K 30.0	K 10.0	367.7	K 2.0	31.7	55.7		K 40.0	K 2.0	20.5	333.2
Maximum	80	130	90	2	K 0.2	87	K 30	K 10	987	K 2	32	84		K 40	K 2	52	347
Minimum	80	130	90	K 2	K 0.2	74	K 30	K 10	59	K 2	31	38		K 40	K 2	K 10	317

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET 600550 SITE LOCATION CAESAR_CREEK
RIVER MILE 0.15 #60 CORWIN RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	22.0	8.3				1.6	K 5.0	34	23	423	
07/15/93	14.1	7.2				K 1.0	K 5.0	26	21	402	
07/28/93	28.0	8.0	6.98			K 1.0	K 5.0	16	22	415	
08/12/93	20.0	8.0				K 1.0	K 5.0	K 10	24	438	
08/26/93	22.0	8.6				K 1.0	K 5.0	13	20	401	
09/07/93	16.0	9.7				K 1.0	K 5.0	15	26	437	
09/23/93	18.8	8.5	7.77			K 1.0	K 5.0	23	23	438	
Average	20.12	8.32	7.340			1.08	K 5.00	19.5	22.7	422.0	
Maximum	28.0	9.7	7.77			1.6	K 5.0	34	26	438	
Minimum	14.1	7.2	6.98			K 1.0	K 5.0	K 10	20	401	

STORET 600550 RM 0.15

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	3.38	0.04	K 0.05	0.50		8.36		0.06	278	10
07/15/93	3.26	0.03	K 0.05	0.60	8.2	7.90		0.06	280	7
07/28/93	3.04	K 0.02	K 0.05	0.30				0.06	264	K 5
08/12/93	3.22	0.02	K 0.05	0.50		8.28		K 0.05	276	5
08/26/93	2.69	K 0.02	K 0.05	0.50		8.29		0.06	238	5
09/07/93	2.14	0.02	K 0.05	0.40		8.34		K 0.05	270	K 5
09/23/93	1.86	K 0.02	K 0.05	0.60		8.18		0.06	242	K 5
Average	2.798	0.024	K 0.050	0.485	8.2	8.225		0.057	264.0	6.0
Maximum	3.38	0.04	K 0.05	0.60	8.2	8.36		0.06	280	10
Minimum	1.86	K 0.02	K 0.05	0.30	8.2	7.90		K 0.05	238	K 5

Appendix Table A-4, continued.

STORET 600550 RM 0.15

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93				K 2	K 0.2	43	K 30	K 10	205	K 2	24	33		K 40	K 2	K 10	206
07/15/93				K 2	K 0.2	41	K 30	K 10	114	K 2	24	28		K 40	K 2	K 10	201
07/28/93				K 2	K 0.2	41	K 30	K 10	K 50	K 2	24	26		K 40	K 2	K 10	201
08/12/93				K 2	K 0.2	41	K 30	K 10	172	K 2	25	32		K 40	K 2	K 10	205
08/26/93				K 2	K 0.2	38	K 30	K 10	184	K 2	25	39		K 40	K 2	K 10	198
09/07/93				K 2	K 0.2	49	K 30	K 10	147	K 2	25	41		K 40	K 2	K 10	225
09/23/93				K 2	K 0.2	43	K 30	K 10	126	K 2	24	43		K 40	K 2	17	206
Average				K 2.0	K 0.20	42.2	K 30.0	K 10.0	142.5	K 2.0	24.4	34.5		K 40.0	K 2.0	11.0	206.0
Maximum				K 2	K 0.2	49	K 30	K 10	205	K 2	25	43		K 40	K 2	17	225
Minimum				K 2	K 0.2	38	K 30	K 10	K 50	K 2	24	26		K 40	K 2	K 10	198

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S19 SITE LOCATION DRY RUN
RIVER MILE 1.79 #61 SNOOK RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	14.2	6.2				K 1.0	K 5.0	22	26	590	
08/12/93	12.5	6.0				K 1.0	K 5.0	K 10	24	973	
08/26/93	15.0	4.2				K 1.0	K 5.0	K 10	22		
Average	13.90	5.46				K 1.00	K 5.00	14.0	24.0	636.5	
Maximum	15.0	6.2				K 1.0	K 5.0	22	26	973	
Minimum	12.5	4.2				K 1.0	K 5.0	K 10	22	590	

STORET M05S19 RM 1.79

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	0.93	K 0.02	K 0.05	0.20		7.76		0.11	400	12
08/12/93	1.09	0.02	K 0.05	K 0.20		7.59		K 0.05	422	K 5
08/26/93	0.52	0.02	K 0.05	0.20		7.58		0.06	416	K 5
Average	0.846	0.020	K 0.050	0.200		7.643		0.073	412.6	7.3
Maximum	1.09	0.02	K 0.05	0.20		7.76		0.11	422	12
Minimum	0.52	K 0.02	K 0.05	K 0.20		7.58		K 0.05	400	K 5

Appendix Table A-4, continued.

STORET M05S19 RM 1.79

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93				K 2	K 0.2	94	K 30	K 10	892	K 2	17	77		K 40	K 2	13	305
08/12/93				K 2	K 0.2	112	K 30	K 10	80	K 2	20	39		K 40	K 2	K 10	362
08/26/93				K 2	K 0.2	106	K 30	K 10	94	K 2	20	115		K 40	K 2	K 10	347
Average				K 2.0	K 0.20	104.0	K 30.0	K 10.0	355.3	K 2.0	19.0	77.0		K 40.0	K 2.0	11.0	338.0
Maximum				K 2	K 0.2	112	K 30	K 10	892	K 2	20	115		K 40	K 2	13	362
Minimum				K 2	K 0.2	94	K 30	K 10	80	K 2	17	39		K 40	K 2	K 10	305

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S17 SITE LOCATION TURTLE CREEK
RIVER MILE 6.23 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/14/93	23.0	5.4	7.74			1.5	8.0	81	42	531	
08/11/93	25.5	7.2				2.3	5.8	21	108		
08/25/93	28.1	7.2				2.0	K 5.0	15	64	629	
09/22/93	17.0	4.0				1.0	K 5.0	20	51	630	
Average	23.39	5.94	7.74			1.70	5.95	34.2	66.2	596.7	
Maximum	28.1	7.2	7.74			2.3	8.0	81	108	630	
Minimum	17.0	4.0	7.74			1.0	K 5.0	15	42	531	

STORET M05S17 RM 6.23

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/14/93	0.55	0.03	K 0.05	0.30				0.07	386	23
08/11/93	0.29	0.04	K 0.05	0.40		8.05		0.07	550	13
08/25/93	K 0.10	0.02	K 0.05	0.60		8.13		0.38	396	48
09/22/93	0.13	K 0.02	0.06	0.30		7.89		0.07	372	18
Average	0.267	0.027	0.052	0.400		8.023		0.147	426.0	25.5
Maximum	0.55	0.04	0.06	0.60		8.13		0.38	550	48
Minimum	K 0.10	K 0.02	K 0.05	0.30		7.89		0.07	372	13

Appendix Table A-4, continued.

STORET M05S17 RM 6.23

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/14/93				2	K 0.2	69	K 30	K 10	828	6	16	144		K 40	K 2	14	238
08/11/93				K 2	K 0.2	76	K 30	K 10	707	K 2	25	263		K 40	K 2	17	293
08/25/93				2	K 0.2	67	K 30	K 10	464	K 2	18	244		K 40	K 2	K 10	241
09/22/93	260	280	250	K 2	K 0.2	74	K 30	K 10	1040	K 2	18	293		K 40	K 2	48	259
Average	260	280	250.0	2.0	K 0.20	71.5	K 30.0	K 10.0	759.7	3.0	19.2	236.0		K 40.0	K 2.0	22.2	257.7
Maximum	260	280	250	2	K 0.2	76	K 30	K 10	1040	6	25	293		K 40	K 2	48	293
Minimum	260	280	250	K 2	K 0.2	67	K 30	K 10	464	K 2	16	144		K 40	K 2	K 10	238

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S21 SITE LOCATION TURTLE_CREEK
RIVER MILE 5.00 #63 MCCLURE RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	20.5	4.8	6.58			1.3	K 5.0	34	36	569	
07/14/93	24.5	8.0	7.82			1.4	6.0	22	43	493	
07/28/93	22.5	3.2	7.30			3.9	K 5.0	K 10	31	680	
08/11/93	25.0	15.6				2.2	K 5.0	18	31		
08/25/93	29.0	14.2				3.0	K 5.0	16	32	640	
09/08/93	19.0	8.4				2.0	K 5.0	20	34	489	
Average	23.41	9.03	7.233			2.29	5.16	20.0	34.5	574.2	
Maximum	29.0	15.6	7.82			3.9	6.0	34	43	680	
Minimum	19.0	3.2	6.58			1.3	K 5.0	K 10	31	489	

STORET M05S21 RM 5.00

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	0.89	0.03	K 0.05	0.40				0.07	370	10
07/14/93	0.62	0.02	K 0.05	0.30				0.06	350	14
07/28/93	2.91	0.11	K 0.05	0.40				0.07	410	12
08/11/93	2.81	0.15	K 0.05	0.40		7.96		K 0.05	424	8
08/25/93	2.87	0.09	K 0.05	0.60		7.94		K 0.05	396	39
09/08/93	1.64	0.03	K 0.05	0.40		7.93		0.08	326	10
Average	1.956	0.071	K 0.050	0.416		7.943		0.063	379.3	15.5
Maximum	2.91	0.15	K 0.05	0.60		7.96		0.08	424	39
Minimum	0.62	0.02	K 0.05	0.30		7.93		K 0.05	326	8

Appendix Table A-4, continued.

STORET M05S21 RM 5.00

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	1100	2100	1400	K 2	K 0.2	75	K 30	K 10	320	4	18	185	K 0.20	K 40	K 2	26	261
07/14/93	2700	2500	1800	3	K 0.2	61	K 30	K 10	517	245	14	106		K 40	K 2	25	210
07/28/93	613	470	800	K 2	K 0.2	99	K 30	K 10	394	K 2	25	261		K 40	K 2	10	350
08/11/93	180	75	K 10	K 2	K 0.2	96	K 30	K 10	357	K 2	26	97		K 40	K 2	K 10	347
08/25/93		20		K 2	K 0.2	101	K 30	K 10	399	K 2	25	143		K 40	K 2	K 10	355
09/08/93	793	160	250	K 2	K 0.2	75	K 30	K 10	483	K 2	16	86		K 40	K 2	20	253
Average	1077.2	887.5	825.0	2.1	K 0.20	84.5	K 30.0	K 10.0	411.6	42.8	20.6	146.3	K 0.20	K 40.0	K2.0	16.8	296.0
Maximum	2700	2500	1800	3	K 0.2	101	K 30	K 10	517	245	26	261	K 0.20	K 40	K 2	26	355
Minimum	180	20	K 10	K 2	K 0.2	61	K 30	K 10	320	K 2	14	86	K 0.20	K 40	K 2	K 10	210

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05P05 SITE LOCATION TURTLE_CREEK
RIVER MILE 0.70 #64 MASON RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	21.3	6.4	7.09			1.0	K 5.0	28	34	582	
07/14/93	24.0	2.8	8.33			1.2	7.0	17	22	444	
07/28/93	27.0	3.2	6.96			2.1	K 5.0	22	49	615	
08/11/93	22.0	6.8				1.7	K 5.0	19	44		
08/25/93	25.5	4.2				3.0	6.0	21	37	485	
09/08/93	18.5	5.8				2.0	6.0	27	50	556	
09/22/93	18.0	8.5				6.0	5.0	36	47	612	
Average	22.32	5.38	7.460			2.42	5.57	24.2	40.4	549.0	
Maximum	27.0	8.5	8.33			6.0	7.0	36	50	615	
Minimum	18.0	2.8	6.96			1.0	K 5.0	17	22	444	

STORET M05P05 RM 0.70

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	0.21	0.02	K 0.05	0.20				0.89	390	12
07/14/93	1.22	0.09	0.09	0.30				0.26	316	85
07/28/93	0.54	0.02	0.05	0.30				0.49	408	20
08/11/93	K 0.10	0.02	K 0.05	0.40		8.19		0.25	412	24
08/25/93	K 0.10	K 0.02	K 0.05	0.80		8.29		0.32	310	39
09/08/93	0.57	0.02	K 0.05	0.30		8.25		2.14	368	20
09/22/93	0.36	0.04	0.10	0.70		8.67		0.39	378	41
Average	0.442	0.032	0.062	0.428		8.350		0.677	368.8	34.4
Maximum	1.22	0.09	0.10	0.80		8.67		2.14	412	85
Minimum	K 0.10	K 0.02	K 0.05	0.20		8.19		0.25	310	12

Appendix Table A-4, continued.

STORET M05P05 RM 0.70

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	3100	2200	3200	2	K 0.2	76	K 30	K 10	335	K 2	21	126	K 0.20	K 40	K 2	33	276
07/14/93	19000	82000	16000	3	K 0.2	64	K 30	K 10	3040	4	16	160		K 40	K 2	23	226
07/28/93	160	210	70	3	K 0.2	73	K 30	K 10	770	K 2	22	489		K 40	K 2	29	273
08/11/93	10	110	K 10	K 2	K 0.2	73	K 30	K 10	2150	K 2	25	271		K 40	K 2	27	285
08/25/93		780		4	K 0.2	57	K 30	K 10	1280	K 2	14	254		K 40	K 2	29	200
09/08/93	847	350	500	K 2	K 0.2	72	K 30	K 10	1220	K 2	16	62		K 40	K 2	15	246
09/22/93	30	50	30	K 2	K 0.2	77	K 30	K 10	1480	2	21	94		K 40	K 2	37	279
Average	3857.8	12242.8	3301.7	2.5	K 0.20	70.2	K 30.0	K 10.0	1467.8	2.2	19.2	208.0	K 0.200	K 40.0	K2.0	27.5	255.0
Maximum	19000	82000	16000	4	K 0.2	77	K 30	K 10	3040	4	25	489	K 0.20	K 40	K 2	37	285
Minimum	10	50	K 10	K 2	K 0.2	57	K 30	K 10	335	K 2	14	62	K 0.20	K 40	K 2	15	200

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S31 SITE LOCATION TURTLE CREEK
RIVER MILE 0.58 [illegible] CONFLY MEADOWS MIXING

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	21.5	8.0	7.42			16.0	11.0	52	51	787	5
07/14/93	24.5	7.8	8.29	0.24		3.9	7.0	18	37	636	K 5
07/28/93	27.0	8.0	6.98			5.1	8.0	34	170	1830	K 5
08/11/93	22.5	8.4		0.12		44.0	87.6	155	82		K 5
08/25/93	20.0	9.0		74.50		L 110.0	92.0	204	248	2670	
09/08/93	19.5	9.6		0.04		79.0	53.0	33	77	1130	K 5
09/22/93	19.5	9.6		0.09		38.0	29.0	73	238	2450	K 5
Average	22.07	8.62	7.563	14.998		42.28	41.08	81.2	129.0	1583.8	5.0
Maximum	27.0	9.6	8.29	74.50		L 110.0	92.0	204	248	2670	5
Minimum	19.5	7.8	6.98	0.04		3.9	7.0	18	37	636	K 5

STORET M05S31 RM 0.58

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	1.04	0.04	0.29	3.30				0.44	484	8
07/14/93	1.18	0.08	0.09	0.40			K 10	0.36	416	71
07/28/93	12.10	0.11	0.12	5.50			24	4.24	1190	48
08/11/93	2.20	0.12	3.37	15.70		7.93	K 10	0.83	1090	36
08/25/93	3.82	0.21	1.09	28.00		7.91	K 10	0.64	1720	68
09/08/93	2.68	0.05	1.61	18.50		8.12	10	0.76	680	17
09/22/93	4.48	0.08	2.67	8.10		8.12	K 10	1.31	1580	6
Average	3.928	0.098	1.319	11.35		8.020	12.33	1.225	1022.8	36.2
Maximum	12.10	0.21	3.37	28.00		8.12	24	4.24	1720	71
Minimum	1.04	0.04	0.09	0.40		7.91	K 10	0.36	416	6

Appendix Table A-4, continued.

STORET M05S31 RM 0.58

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93				K 2	K 0.2	70	K 30	K 10	326	K 2	18	137	K 0.20	K 40	K 2	18	249
07/14/93				4	K 0.2	71	K 30	K 10	2520	3	17	151		K 40	K 2	19	247
07/28/93	260	1070	160	K 2	0.4	67	K 30	447	720	16	18	109	K 0.20	K 40	K 2	143	241
08/11/93	330	100	K 10	K 2	K 0.2	18	K 30	128	1600	24	4	99	1.35	K 40	K 2	55	61
08/25/93		90		K 4	0.2	20	K 30	374	926	26	4	102	K 0.20	K 40	K 2	41	66
09/08/93	370	250	250	K 2	K 0.2	38	K 30	40	820	8	9	65	K 0.20	K 40	K 2	27	132
09/22/93	K 10	70	K 10	K 10	K 0.2	17	K 30	43	132	K 2	4	438	K 0.20	K 40	K 2	21	59
Average	242.5	316.0	107.5	3.7	0.22	43.0	K 30.0	150.2	1006.2	11.5	10.5	157.2	0.392	K 40.0	K 2.0	46.2	150.7
Maximum	370	1070	250	10	0.4	71	K 30	447	2520	26	18	438	1.35	K 40	K 2	143	249
Minimum	K 10	70	K 10	K 2	K 0.2	17	K 30	K 10	132	K 2	4	65	K 0.20	K 40	K 2	18	59

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S14 SITE LOCATION TURTLE CREEK
RIVER MILE 0.52

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/14/93						1.0	6.0	17	26	434	
07/28/93	26.5	8.0	6.96			5.7	7.0	118	546	2380	
08/11/93	22.0	7.5				28.0	43.6	80	595		
08/25/93	22.0	4.4				L 110.0	69.4	164	835	3900	
09/08/93	19.0	7.6				34.0	22.0	62	64	790	
09/22/93	18.0	8.6				27.0	18.0	46	598	2890	
Average	21.5	7.22	6.96			34.28	27.66	81.1	444.0	2078.8	
Maximum	26.5	8.6	6.96			L 110.0	69.4	164	835	3900	
Minimum	18.0	4.4	6.96			1.0	6.0	17	26	434	

STORET M05S14 RM 0.52

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/14/93	1.24	0.07	0.06	0.40				0.40		61
07/28/93	1.66	0.06	0.57	1.30				2.09	1530	74
08/11/93	1.20	0.25	3.33	9.30		7.93		0.54	1690	9
08/25/93	2.86	0.26	8.91	31.00		7.81		0.36	2370	12
09/08/93	1.33	0.04	0.65	6.70		8.16		0.43	484	22
09/22/93	2.94	0.17	23.60	25.00		7.88		0.76	1760	12
Average	1.871	0.141	6.186	12.28		7.945		0.763	1566.8	31.6
Maximum	2.94	0.26	23.60	31.00		8.16		2.09	2370	74
Minimum	1.20	0.04	0.06	0.40		7.81		0.36	484	9

Appendix Table A-4, continued.

STORET M05S14 RM 0.52

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/14/93				3	K 0.2	67	K 30	K 10	2420	K 2	16	142		K 40	K 2	11	233
07/28/93	20	580	10	K 2	0.3	159	K 30	506	1060	13	41	252		K 40	K 2	118	566
08/11/93	310	790	50	K 2	K 0.2	124	K 30	111	544	18	32	566		K 40	K 2	45	441
08/25/93		670		K 4	K 0.2	175	K 30	135	505	16	40	357		K 40	2	49	602
09/08/93	380	420	260	K 2	K 0.2	59	K 30	16	1000	2	13	69		K 40	K 2	14	201
09/22/93	130	340	110	K 2	0.2	108	K 30	50	394	K 2	26	326		K 40	K 2	17	377
Average	210.0	560.0	107.5	2.5	0.21	115.3	K 30.0	138.0	987.1	8.8	28.0	285.3		K 40.0	2.0	42.3	403.3
Maximum	380	790	260	4	0.3	175	K 30	506	2420	18	41	566		K 40	2	118	602
Minimum	20	340	10	K 2	K 0.2	59	K 30	K 10	394	K 2	13	69		K 40	K 2	11	201

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05W09 SITE LOCATION TURTLE CREEK
RIVER MILE 0.01 MOUTH

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	20.5	7.2	7.64			1.1	K 5.0	25	74	786	
07/14/93	23.0	4.8	7.84			K 1.0	9.0	18	24	430	
07/28/93	23.8	12.0	6.92			K 1.0	K 5.0	K 10	58	779	
08/11/93	18.0	10.8				1.1	K 5.0	15	75		
08/25/93	20.0	7.0				K 1.0	K 5.0	11	81	939	
09/08/93	19.5	9.9				2.0	K 5.0	29	68	663	
09/22/93	15.0	8.5				K 1.0	K 5.0	12	76	930	
Average	19.97	8.59	7.467			1.17	5.57	17.1	65.1	754.5	
Maximum	23.8	12.0	7.84			2.0	9.0	29	81	939	
Minimum	15.0	4.8	6.92			K 1.0	K 5.0	K 10	24	430	

STORET M05W09 RM 0.01

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	0.90	0.03	K 0.05	K 0.20				0.21	482	10
07/14/93	1.07	0.08	K 0.05	0.20				0.23	306	132
07/28/93	1.43	0.02	K 0.05	K 0.20				0.12	506	K 5
08/11/93	1.57	0.08	K 0.05	0.20		8.19		0.10	590	5
08/25/93	1.47	0.05	K 0.05	0.30		7.58		0.14	586	6
09/08/93	1.04	0.02	K 0.05	0.50		7.84		0.20	416	14
09/22/93	2.23	0.06	K 0.05	K 0.20		7.65		0.06	566	5
Average	1.387	0.048	K 0.050	0.257		7.815		0.151	493.1	25.2
Maximum	2.23	0.08	K 0.05	0.50		8.19		0.23	590	132
Minimum	0.90	0.02	K 0.05	K 0.20		7.58		0.06	306	K 5

Appendix Table A-4, continued.

STORET M05W09 RM 0.01

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	1120	720	790	K 2	K 0.2	94	K 30	K 10	653	K 2	24	158	K 0.20	K 40	K 2	18	334
07/14/93	4700	8400	3500	4	K 0.2	63	K 30	K 10	4780	6	14	223		K 40	K 2	72	215
07/28/93	270	160	370	K 2	K 0.2	102	K 30	K 10	170	K 2	24	92	K 0.20	K 40	K 2	K 10	354
08/11/93	240	210	K 10	K 2	K 0.2	108	K 30	K 10	169	K 2	26	130		K 40	K 2	K 10	377
08/25/93		160		K 2	K 0.2	117	K 30	K 10	273	K 2	25	217		K 40	K 2	K 10	395
09/08/93	475	280	265	K 2	K 0.2	82	K 30	K 10	675	K 2	19	73		K 40	K 2	17	283
09/22/93	430	120	320	K 2	K 0.2	117	K 30	K 10	255	K 2	26	94		K 40	K 2	K 10	399
Average	1205.8	1435.7	875.8	2.2	K 0.20	97.5	K 30.0	K 10.0	996.4	2.5	22.5	141.0	K 0.200	K 40.0	K 2.0	21.0	336.7
Maximum	4700	8400	3500	4	K 0.2	117	K 30	K 10	4780	6	26	223	K 0.20	K 40	K 2	72	399
Minimum	240	120	K 10	K 2	K 0.2	63	K 30	K 10	169	K 2	14	73	K 0.20	K 40	K 2	K 10	215

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S02 SITE LOCATION MUDDY CREEK
RIVER MILE 2.50 RT MASON-MONTROW RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	21.1	8.7	8.08			K 1.0	K 5.0	40	363	1750	6
07/15/93	15.0	8.0		0.09		1.5	6.0	41	167	1020	K 5
07/28/93	23.5	7.8	7.04			K 1.0	K 5.0	25	487	2150	K 5
08/12/93	18.5	7.6		0.07		K 1.0	K 5.0	17	550	904	K 5
08/26/93	20.5	8.9		0.14		K 1.0	5.0	14	458	2050	K 5
09/08/93						1.0	9.0	18	430	1800	
Average	19.72	8.20	7.56	0.100		1.08	5.83	25.8	409.1	1612.3	5.2
Maximum	23.5	8.9	8.08	0.14		1.5	9.0	41	550	2150	6
Minimum	15.0	7.6	7.04	0.07		K 1.0	K 5.0	14	167	904	K 5

STORET M05S02 RM 2.50

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	3.10	0.03	0.07	0.70			K 10	0.84	1060	10
07/15/93	2.13 K	0.02 K	0.05	0.60		8.16	K 10	0.22	666	15
07/28/93	3.84	0.04	0.12	0.70			29	0.78	1260	K 5
08/12/93	2.24	0.06	0.20	1.00		8.09	K 10	1.08	1300	K 5
08/26/93	1.56	0.03	0.06	0.70		8.16	K 10	0.41	1210	K 5
09/08/93	7.90	0.06	K 0.05	2.30		8.27		0.54	1110	10
Average	3.461	0.040	0.091	1.000		8.170	13.80	0.645	1101.0	8.3
Maximum	7.90	0.06	0.20	2.30		8.27	29	1.08	1300	15
Minimum	1.56	K 0.02	K 0.05	0.60		8.09	K 10	0.22	666	K 5

Appendix Table A-4, continued.

STORET M05S02 RM 2.50

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	530	480	310	K 2	K 0.2	106	K 30	K 10	409	K 2	31	28	K 0.20	K 40	K 2	50	393
07/15/93	1430	870	780	2	K 0.2	85	K 30	K 10	846	K 2	22	59		K 40	K 2	14	303
07/28/93	666	405	480	K 2	K 0.2	120	K 30	K 10	139	K 2	35	32	K 0.20	K 40	K 2	40	444
08/12/93	210	240	190	K 2	K 0.2	121	K 30	K 10	236	K 2	35	42	K 0.20	K 40	K 4	32	446
08/26/93	20	340	30	K 2	K 0.2	116	K 30	486	181	K 2	33	28	K 0.20	K 40	2	75	426
09/08/93	4200	240	300	K 2	K 0.2	109	K 30	K 10	817	K 2	32	43		K 40	K 2	13	404
Average	1176.0	429.1	348.3	2.0	K 0.20	109.5	K 30.0	89.3	438.0	K 2.0	31.3	38.6	K 0.200	K 40.0	2.3	37.3	402.6
Maximum	4200	870	780	2	K 0.2	121	K 30	486	846	K 2	35	59	K 0.20	K 40	K 4	75	446
Minimum	20	240	30	K 2	K 0.2	85	K 30	K 10	139	K 2	22	28	K 0.20	K 40	K 2	13	303

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M04P10 SITE LOCATION STONELICK CR
RIVER MILE 16.74 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	23.0	6.2	7.45			2.9	10.0	63	7	146	
08/12/93	24.2	4.2				1.5	8.0	35	17	332	
08/26/93	27.0	2.4				1.0	9.0	26	13	284	
09/23/93	19.5	4.4				3.3	11.0	37	16	320	
Average	23.42	4.29	7.45			2.17	9.50	40.2	13.2	270.5	
Maximum	27.0	6.2	7.45			3.3	11.0	63	17	332	
Minimum	19.5	2.4	7.45			1.0	8.0	26	7	146	

STORET M04P10 RM 16.74

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	1.40	0.08	K 0.05	0.60				0.70	146	104
08/12/93	0.15	0.05	0.22	1.10		7.63		0.17	208	36
08/26/93	K 0.10	0.03	0.27	1.50		7.54		0.21	186	36
09/23/93	K 0.10	0.02	K 0.05	1.00		7.72		0.14	174	34
Average	0.437	0.045	0.147	1.049		7.630		0.305	178.5	52.5
Maximum	1.40	0.08	0.27	1.50		7.72		0.70	208	104
Minimum	K 0.10	0.02	K 0.05	0.60		7.54		0.14	146	34

Appendix Table A-4, continued.

STORET M04P10 RM 16.74

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93	15000	98000	7700	K 2	K 0.2	17	K 30	K 10	6900	5	5	139		K 40	K 2	40	63
08/12/93	30	40	30	3	K 0.2	38	K 30	K 10	1980	2	9	548		K 40	K 2	16	132
08/26/93				4	K 0.2	38	K 30	K 10	1800	K 2	9	475		K 40	K 2	42	132
09/23/93	15	25	15	3	K 0.2	38	K 30	K 10	1660	K 2	9	396		K 40	K 2	17	132
Average	5015.0	32688.3	2581.7	3.0	K 0.20	32.7	K 30.0	K 10.0	3085.0	2.7	8.0	389.5		K 40.0	K 2.0	28.7	114.7
Maximum	15000	98000	7700	4	K 0.2	38	K 30	K 10	6900	5	9	548		K 40	K 2	42	132
Minimum	15	25	15	K 2	K 0.2	17	K 30	K 10	1660	K 2	5	139		K 40	K 2	16	63

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION STONELICK CR
RIVER MILE 3.10 [illegible] DST LICK FORK

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	26.0	7.6	7.75			1.4	10.0	32	16	285	
08/12/93	22.2	4.8				1.3	K 5.0	21	26	545	
08/26/93	25.0	4.2				1.0	K 5.0	12	27	474	
09/23/93	18.8	5.4				1.7	5.0	20	22	445	
Average	23.00	5.49	7.75			1.34	6.25	21.2	22.7	437.2	
Maximum	26.0	7.6	7.75			1.7	10.0	32	27	545	
Minimum	18.8	4.2	7.75			1.0	K 5.0	12	16	285	

STORET M04S28 RM 3.10

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	0.64	0.04	0.18	0.90				0.24	206	137
08/12/93	K 0.10	0.02	K 0.05	0.30		7.92		0.15	320	78
08/26/93	K 0.10	0.02	K 0.05	0.50		7.90		0.10	294	60
09/23/93	K 0.10	K 0.02	K 0.05	0.40		7.96		0.09	248	17
Average	0.235	0.025	0.082	0.525		7.927		0.145	267.0	73.0
Maximum	0.64	0.04	0.18	0.90		7.96		0.24	320	137
Minimum	K 0.10	K 0.02	K 0.05	0.30		7.90		0.09	206	17

Appendix Table A-4, continued.

STORET M04S28 RM 3.10

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93	2200	6600	1300	3	K 0.2	40	K 30	K 10	4900	7	10	367		K 40	K 2	18	141
08/12/93	10	290	10	K 2	K 0.2	73	K 30	K 10	3480	3	18	658		K 40	K 2	19	256
08/26/93	55	330	60	K 2	K 0.2	62	K 30	K 10	2140	K 2	16	301		K 40	K 2	46	221
09/23/93	80	300	100	K 2	K 0.2	54	K 30	K 10	535	K 2	12	114		K 40	K 2	13	184
Average	586.2	1880.0	367.5	2.2	K 0.20	57.2	K 30.0	K 10.0	2763.7	3.5	14.0	360.0		K 40.0	K 2.0	24.0	200.5
Maximum	2200	6600	1300	3	K 0.2	73	K 30	K 10	4900	7	18	658		K 40	K 2	46	256
Minimum	10	290	10	K 2	K 0.2	40	K 30	K 10	535	K 2	10	114		K 40	K 2	13	141

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION [illegible]
RIVER MILE 1.00 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	25.5	7.5	7.87			1.3	9.0	27	19	283	
08/12/93	23.5	7.2				1.4	K 5.0	13	27	628	
08/26/93	25.0	4.0				K 1.0	K 5.0	K 10	21		
09/23/93	18.1	5.6				K 1.0	K 5.0	21	22	558	
Average	23.02	6.07	7.87			1.17	6.00	17.7	22.2	489.7	
Maximum	25.5	7.5	7.87			1.4	9.0	27	27	628	
Minimum	18.1	4.0	7.87			K 1.0	K 5.0	K 10	19	283	

STORET M04P09 RM 1.00

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	0.28	0.05	0.13	0.90				0.22	194	150
08/12/93	0.47	0.03	K 0.05	K 0.20		7.79		0.07	384	10
08/26/93	0.21	0.02	K 0.05	0.30		7.70		0.12	282	8
09/23/93	0.27	K 0.02	K 0.05	0.40		7.64		0.05	180	6
Average	0.307	0.030	0.070	0.450		7.710		0.115	260.0	43.5
Maximum	0.47	0.05	0.13	0.90		7.79		0.22	384	150
Minimum	0.21	K 0.02	K 0.05	K 0.20		7.64		0.05	180	6

Appendix Table A-4, continued.

STORET M04P09 RM 1.00

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93	3000	8300	3300	3	K 0.2	38	K 30	K 10	4710	2	10	331		K 40	K 2	28	136
08/12/93	110	310	90	K 2	K 0.2	98	K 30	K 10	509	K 2	16	147		K 40	K 2	51	311
08/26/93	20	250	40	K 2	K 0.2	64	K 30	K 10	393	K 2	13	163		K 40	K 2	11	213
09/23/93	70	170	30	K 2	K 0.2	83	K 30	K 10	225	K 2	14	166		K 40	K 2	20	265
Average	800.0	2257.5	865.0	2.2	K 0.20	70.7	K 30.0	K 10.0	1459.2	2.0	13.2	201.7		K 40.0	K 2.0	27.5	231.2
Maximum	3000	8300	3300	3	K 0.2	98	K 30	K 10	4710	2	16	331		K 40	K 2	51	311
Minimum	20	170	30	K 2	K 0.2	38	K 30	K 10	225	K 2	10	147		K 40	K 2	11	136

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S20 SITE LOCATION SYCAMORE_CR
RIVER MILE 0.40 #71 UPST SYCAMORE WWTP

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	21.5	8.7	7.79			K 1.0	K 5.0	24	65	578	
07/14/93	22.8	8.1	7.88			1.4	5.4	30	42	349	
07/28/93	27.2	9.8	7.91			K 1.0	K 5.0	K 10	65	623	
08/11/93	22.0	9.6	7.83			K 1.0	K 5.0	12	73		
08/25/93	23.4	7.6	7.86			1.0	6.4	25	32	340	
09/08/93	19.5	11.2	8.13			1.0	K 5.0	K 10	64	556	
09/22/93	17.4	11.3	8.23			K 1.0	K 5.0	17	46	519	
Average	21.97	9.47	7.947			1.05	5.27	18.2	55.2	494.2	
Maximum	27.2	11.3	8.23			1.4	6.4	30	73	623	
Minimum	17.4	7.6	7.79			K 1.0	K 5.0	K 10	32	340	

STORET M05S20 RM 0.40

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	0.20	K 0.02	K 0.05	0.20				0.09	352	K 5
07/14/93	0.92	0.04	K 0.05	0.40				0.15	238	34
07/28/93	K 0.10	K 0.02	K 0.05	K 0.20				0.10	395	K 5
08/11/93	0.14	K 0.02	K 0.05	K 0.20				0.06	436	K 5
08/25/93	0.84	0.06	K 0.05	0.80				0.14	226	34
09/08/93	K 0.10	K 0.02	K 0.05	0.30				0.09	348	K 5
09/22/93	K 0.10	K 0.02	K 0.05	K 0.20				0.06	298	K 5
Average	0.342	0.028	K 0.050	0.328				0.098	327.5	13.2
Maximum	0.92	0.06	K 0.05	0.80				0.15	436	34
Minimum	K 0.10	K 0.02	K 0.05	K 0.20				0.06	226	K 5

Appendix Table A-4, continued.

STORET M05S20 RM 0.40

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	210	200	300	K 2	K 0.2	61	K 30	K 10	208	K 2	11	53	K 0.20	K 40	K 2	K 10	198
07/14/93	27000	36000	20000	K 2	K 0.2	34	K 30	K 10	1580	K 2	6	87		K 40	K 2	K 10	110
07/28/93	140	150	150	K 2	K 0.2	76	K 30	K 10	K 50	K 2	16	37		K 40	K 2	K 10	256
08/11/93	10	80	K 10	K 2	K 0.2	77	K 30	K 10	142	K 2	17	63		K 40	K 2	K 10	262
08/25/93		15200		2	K 0.2	36	K 30	K 10	4420	3	7	85		K 40	K 2	23	119
09/08/93	11000	80	8000	K 2	K 0.2	65	K 30	K 10	113	K 2	12	31		K 40	K 2	K 10	212
09/22/93	64	40		K 2	K 0.2	59	K 30	K 10	60	K 2	12	29		K 40	K 2	34	197
Average	6404.0	7392.8	5692.0	2.0	K 0.20	58.2	K 30.0	K 10.0	939.0	2.1	11.5	55.0	K 0.200	K 40.0	K 2.0	15.2	193.4
Maximum	27000	36000	20000	2	K 0.2	77	K 30	K 10	4420	3	17	87	K 0.20	K 40	K 2	34	262
Minimum	10	40	K 10	K 2	K 0.2	34	K 30	K 10	K 50	K 2	6	29	K 0.20	K 40	K 2	K 10	110

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S38 SITE LOCATION SYCAMOR[illegible]R
RIVER MILE 0.25 #72 SYCA[illegible]E WWTP MIXING

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	21.1	8.5	7.71	0.66		3.2	7.8	35	96	815	27
07/14/93	22.8	8.2	7.63	0.11		1.6	K 5.0	17	40	340	K 5
07/28/93	24.0	8.0	7.83	0.42		K 1.0	7.0	19	109	881	13
08/11/93	22.9	8.3	7.66	0.45		K 1.0	K 5.0	27	116		K 5
08/25/93	23.6	7.6	7.61	0.15		K 1.0	6.4	24	83	741	8
09/08/93	23.0	8.6	7.60	0.14		3.0	9.0	18	122	1000	8
09/22/93	21.3	8.9	7.62	0.45		K 1.0	7.0	25	124	992	18
Average	22.67	8.30	7.665	0.340		1.68	6.76	23.5	98.5	794.8	12.0
Maximum	24.0	8.9	7.83	0.66		3.2	9.0	35	124	1000	27
Minimum	21.1	7.6	7.60	0.11		K 1.0	K 5.0	17	40	340	K 5

STORET M05S38 RM 0.25

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	6.56 K	0.02	0.05	1.40			11	1.92	508	11
07/14/93	1.01	0.04	K 0.05	0.40			K 10	0.19	238	39
07/28/93	8.04 K	0.02	K 0.05	0.80			K 10	1.41	566	K 5
08/11/93	1.60	0.04	0.10	0.90			K 10	3.00	590	9
08/25/93	0.75	0.02	0.06	0.80			K 10	0.62	444	10
09/08/93	0.49	0.02	0.05	1.00			K 10	1.92	618	K 5
09/22/93	4.87 K	0.02	0.05	1.20			K 10	2.97	600	K 5
Average	3.331	0.025	0.058	0.928			10	1.718	509.1	12.0
Maximum	8.04	0.04	0.10	1.40			11	3.00	618	39
Minimum	0.49	K 0.02	K 0.05	0.40			K 10	0.19	238	K 5

Appendix Table A-4, continued.

STORET M05S38 RM 0.25

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	90	70	40	K 2	K 0.2	66	K 30	K 10	253	K 2	16	30	K 0.20	K 40	K 2	40	231
07/14/93	19000	37000	16000	3	K 0.2	34	K 30	K 10	1630	2	6	92		K 40	K 2	12	110
07/28/93	120	K 10	10	K 2	0.2	65	K 30	K 10	K 50	K 2	18	K 10	K 0.20	K 40	K 2	31	236
08/11/93	3300	280	20	K 2	K 0.2	61	K 30	K 10	402	K 2	17	25	K 0.20	K 40	K 2	70	255
08/25/93		2400		K 2	K 0.2	54	K 30	K 10	540	K 2	13	31	K 0.20	K 40	K 2	51	188
09/08/93	11000	920	3500	K 2	K 0.2	68	K 30	K 10	K 50	K 2	18	30	K 0.20	K 40	K 2	56	244
09/22/93	420	60		K 2	K 0.2	60	K 30	K 10	K 50	K 2	16	K 10	K 0.20	K 40	K 2	63	216
Average	5655.0	5820.0	3914.0	2.1	0.20	58.2	K 30.0	K 10.0	425.0	2.0	14.8	32.5	K 0.200	K 40.0	K 2.0	46.1	211.4
Maximum	19000	37000	16000	3	0.2	68	K 30	K 10	1630	2	18	92	K 0.20	K 40	K 2	70	255
Minimum	90	K 10	10	K 2	K 0.2	34	K 30	K 10	K 50	K 2	6	K 10	K 0.20	K 40	K 2	12	110

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S37 SITE LOCATION SYCAMORE CR
RIVER MILE 0.05 #73 DST SYCAMORE WWTP

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	21.0	7.3	7.78			K 1.0	5.8	26	91	807	
07/14/93	22.6	7.9	7.67			1.4	5.3	13	54	463	
07/28/93	24.0	7.2	7.91				6.0	31			
08/11/93	22.5	6.2	7.63			1.1	5.7	27	110		
08/25/93	23.5	7.1	7.70			K 1.0	7.1	25	62	586	
09/08/93	21.7	7.7	7.50			2.0	10.0	33	115	970	
09/22/93	20.5	7.8	7.64			1.0	6.0	22	116	915	
Average	22.25	7.31	7.689			1.25	6.57	25.2	91.3	748.2	
Maximum	24.0	7.9	7.91			2.0	10.0	33	116	970	
Minimum	20.5	6.2	7.50			K 1.0	5.3	13	54	463	

STORET M05S37 RM 0.05

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	5.98	0.03	K 0.05	0.90				0.15	500	11
07/14/93	2.82	0.04	K 0.05	0.50				0.74	318	32
07/28/93	7.00		0.09	0.80				2.83		
08/11/93	1.33	0.06	0.17	1.00				2.90	564	10
08/25/93	0.78	0.05	0.05	0.70				0.53	348	40
09/08/93	0.52	0.08	0.25	1.30				3.43	600	K 5
09/22/93	4.56	0.02	0.09	0.80				2.43	572	24
Average	3.284	0.047	0.107	0.857				1.858	397.0	20.3
Maximum	7.00	0.08	0.25	1.30				3.43	600	40
Minimum	0.52	0.02	K 0.05	0.50				0.15	318	K 5

Appendix Table A-4, continued.

STORET M05S37 RM 0.05

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	1650	175	765	K 2	K 0.2	64	K 30	K 10	389	K 2	16	46	K 0.20	K 40	K 2	32	226
07/14/93	17000	28000	6000	K 2	K 0.2	42	K 30	K 10	2560	2	9	86		K 40	K 2	13	142
07/28/93	8640	600	7200	K 2	0.2	68	K 30	K 10	73	K 2	18	29		43	K 2	37	244
08/11/93	1280	550	220	K 2	K 0.2	61	K 30	K 10	529	K 2	19	58		K 40	K 2	66	231
08/25/93		8800		K 2	K 0.2	47	K 30	K 10	2820	K 2	11	79		K 40	K 2	47	163
09/08/93	24000	1550	230	K 2	K 0.2	70	K 30	K 10	108	K 2	18	66		K 40	K 2	41	249
09/22/93	21000	1130	7500	K 2	K 0.2	59	K 30	K 10	136	K 2	16	40		K 40	K 2	53	213
Average	12261.7	5829.2	3652.5	K 2.0	0.20	58.7	K 30.0	K 10.0	945.0	2.0	15.2	57.7	K 0.200	40.4	K 2.0	41.2	209.7
Maximum	24000	28000	7500	K 2	0.2	70	K 30	K 10	2820	2	19	86	K 0.20	43	K 2	66	249
Minimum	1280	175	220	K 2	K 0.2	42	K 30	K 10	73	K 2	9	29	K 0.20	K 40	K 2	13	142

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION EAST FORK LMR
RIVER MILE 15.60 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	25.5	6.2	8.10			K 1.0	6.0	25	11	276	
08/12/93	24.0	6.4				K 1.0	K 5.0	19	14	294	
08/26/93	28.0	6.0				K 1.0	5.0	13	12	290	
09/23/93	19.5	7.8				K 1.0	6.0	25	13	296	
Average	24.25	6.59	8.10			K 1.00	5.50	20.5	12.5	289.0	
Maximum	28.0	7.8	8.10			K 1.0	6.0	25	14	296	
Minimum	19.5	6.0	8.10			K 1.0	K 5.0	13	11	276	

STORET M04S06 RM 15.60

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	0.23	K 0.02	K 0.05	0.60				0.11	196	7
08/12/93	0.23	K 0.02	K 0.05	0.50		8.09		0.08	194	K 5
08/26/93	0.18	K 0.02	K 0.05	0.50		8.09		0.08	184	6
09/23/93	0.23	K 0.02	K 0.05	0.50		7.89		0.06	168	K 5
Average	0.217	K 0.020	K 0.050	0.525		8.023		0.082	185.5	5.7
Maximum	0.23	K 0.02	K 0.05	0.60		8.09		0.11	196	7
Minimum	0.18	K 0.02	K 0.05	0.50		7.89		0.06	168	K 5

Appendix Table A-4, continued.

STORET M04S06 RM 15.60

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93	120	240	110	K 2	K 0.2	35	K 30	K 10	244	K 2	9	72		K 40	K 2	K 10	124
08/12/93				K 2	K 0.2	36	K 30	K 10	210	K 2	10	57		K 40	K 2	39	131
08/26/93	10	110	10	K 2	K 0.2	36	K 30	K 10	371	K 2	11	75		K 40	K 2	18	135
09/23/93	80	110	90	K 2	K 0.2	36	K 30	K 10	386	3	10	45		K 40	K 2	67	131
Average	70.0	153.3	70.0	K 2.0	K 0.20	35.7	K 30.0	K 10.0	302.7	2.2	10.0	62.2		K40.0	K 2.0	33.5	130.2
Maximum	120	240	110	K 2	K 0.2	36	K 30	K 10	386	3	11	75		K 40	K 2	67	135
Minimum	10	110	10	K 2	K 0.2	35	K 30	K 10	210	K 2	9	45		K 40	K 2	K 10	124

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M04S27 SITE LOCATION EAST FORK LMR
RIVER MILE 13.35 475 BATAVIA WWTP MIXING

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	25.0	5.2	8.12	0.16		K 1.0	9.0	33	23	390	6
07/29/93	29.1	7.4	8.45	0.11		1.6	6.1	24	16	321	K 5
08/12/93	24.0	6.4		0.10		1.5	7.0	30	40	543	K 5
08/26/93	27.0	5.9				K 1.0	6.0	17	17	337	K 5
09/09/93	23.0	8.4	7.83	0.48		1.0	7.0	19	45	513	8
Average	25.62	6.65	8.133	0.213		1.22	7.02	24.6	28.2	420.7	5.8
Maximum	29.1	8.4	8.45	0.48		1.6	9.0	33	45	543	8
Minimum	23.0	5.2	7.83	0.10		K 1.0	6.0	17	16	321	K 5

STORET M04S27 RM 13.35

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	3.16	0.28	1.74	3.10			K 10	0.68	264	9
07/29/93	0.47	0.03	0.18	1.00			K 10	0.12	206	6
08/12/93	3.14	0.35	1.57	2.20		7.74	K 10	0.70	316	9
08/26/93	0.81	0.12	0.81	1.40		7.93	K 10	0.34	200	K 5
09/09/93	1.71	0.52	2.20	2.70			K 10	0.31	298	K 5
Average	1.857	0.026	1.299	2.079		7.835	K 10	0.430	256.7	6.8
Maximum	3.16	0.52	2.20	3.10		7.93	K 10	0.70	316	9
Minimum	0.47	0.03	0.18	1.00		7.74	K 10	0.12	200	K 5

Appendix Table A-4, continued.

STORET M04S27 RM 13.35

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93	K 10	K 10	K 10	K 2	K 0.2	47	K 30	K 10	286	5	10	89		K 40	K 2	14	159
07/29/93	1230	220	880	K 2	K 0.2	40	K 30	K 10	406	K 2	11	83	K 0.20	K 40	K 2	K 10	145
08/12/93	7600	6900	5200	K 2	K 0.2	42	K 30	K 10	697	5	10	90		K 40	K 2	21	146
08/26/93	30	160	80	K 2	K 0.2	39	K 30	K 10	375	K 2	11	68		K 40	K 2	26	143
09/09/93	80	150	30	K 2	K 0.2	47	K 30	K 10	225	K 2	11	57		K 40	K 2	K 10	163
Average	1790.0	1488.0	1240.0	K 2.0	K 0.20	43.0	K 30.0	K 10.0	397.7	3.2	10.6	77.4	K 0.200	K40.0	K 2.0	16.2	151.1
Maximum	7600	6900	5200	K 2	K 0.2	47	K 30	K 10	697	5	11	90	K 0.20	K 40	K 2	26	163
Minimum	K 10	K 10	K 10	K 2	K 0.2	39	K 30	K 10	225	K 2	10	57	K 0.20	K 40	K 2	K 10	143

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION EASTFORK LMR
RIVER MILE 12.59 [illegible] MIDDLE EAST FORK MD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93	22.0	8.0	8.18	0.08		K 1.0	6.0	37	49	664	K 5
07/29/93	28.7	9.3	8.53	0.17		1.3	5.9	20	52	663	K 5
08/12/93	23.0	8.0		0.10		1.0	7.0	29	49	616	K 5
08/26/93	25.0	8.6				1.0	11.0	22	91	1090	K 5
09/09/93	22.5	9.5	7.95	0.12		1.0	6.0	15	23	416	K 5
Average	24.23	8.67	8.22	0.118		1.06	7.19	24.6	52.7	689.7	K 5.0
Maximum	28.7	9.5	8.53	0.17		1.3	11.0	37	91	1090	K 5
Minimum	22.0	8.0	7.95	0.08		K 1.0	5.9	15	23	416	K 5

STORET M04S26 RM 12.59

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	9.49	K 0.02	K 0.05	1.05			K 10	1.29	444	8
07/29/93	5.14	0.04	K 0.05	0.90			K 10	0.66	430	5
08/12/93	7.07	0.03	0.08	1.30		7.93	K 10	1.10	386	8
08/26/93	11.50	0.24	0.59	1.80		7.74	K 10	2.19	712	K 5
09/09/93	1.01	K 0.02	K 0.05	0.40			K 10	0.14	212	K 5
Average	6.841	0.070	0.164	1.090		7.835	K 10	1.075	436.7	6.1
Maximum	11.50	0.24	0.59	1.80		7.93	K 10	2.19	712	8
Minimum	1.01	K 0.02	K 0.05	0.40		7.74	K 10	0.14	212	K 5

Appendix Table A-4, continued.

STORET M04S26 RM 12.59

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93	1000	320	790	K 2	K 0.2	58	K 30	K 10	292	K 2	12	52		K 40	K 2	30	194
07/29/93	80	150	50	K 2	K 0.2	66	K 30	K 10	251	K 2	13	37	K 0.20	K 40	K 2	22	218
08/12/93	1070	630	919	K 2	K 0.2	60	K 30	K 10	373	2	13	64		K 40	K 2	35	203
08/26/93	K 10	K 10	K 10	K 2	K 0.2	83	K 30	K 10	98	5	15	58		46	K 2	59	269
09/09/93	70	80	70	K 2	K 0.2	41	K 30	K 10	305	K 2	11	46		K 40	K 2	K 10	148
Average	446.0	238.0	367.7	K 2.0	K 0.20	61.5	K 30.0	K 10.0	263.7	2.5	12.8	51.4	K 0.200	41.2	K 2.0	31.2	206.3
Maximum	1070	630	919	K 2	K 0.2	83	K 30	K 10	373	5	15	64	K 0.20	46	K 2	59	269
Minimum	K 10	K 10	K 10	K 2	K 0.2	41	K 30	K 10	98	K 2	11	37	K 0.20	K 40	K 2	K 10	148

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M04S03 SITE LOCATION EASTOWN_LWR
RIVER MILE 9.10 ETT OLIVE BRANCH STONE RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/15/93						K 1.0	K 5.0	30	16	348	
07/29/93	29.5	9.4	8.41			2.0	5.8	35	22	398	
08/12/93	24.0	7.2				K 1.0	5.0	28	23	387	
08/26/93	28.5	5.6				K 1.0	6.0	15	20	366	
09/09/93	22.2	8.3	8.10			K 1.0	6.0	14	24	342	
Average	26.05	7.63	8.255			1.20	5.56	24.3	21.0	368.2	
Maximum	29.5	9.4	8.41			2.0	6.0	35	24	398	
Minimum	22.2	5.6	8.10			K 1.0	K 5.0	14	16	342	

STORET M04S03 RM 9.10

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/15/93	1.05	0.02	K 0.05	0.60				0.23	236	31
07/29/93	1.17	0.03	K 0.05	0.70				0.18	252	8
08/12/93	1.47	0.03	K 0.05	0.50		8.01		0.21	246	12
08/26/93	1.42	0.04	0.05	0.70		7.94		0.30	230	31
09/09/93	0.73	0.02	K 0.05	0.60				0.19	204	14
Average	1.167	0.028	0.050	0.620		7.975		0.222	233.6	19.2
Maximum	1.47	0.04	0.05	0.70		8.01		0.30	252	31
Minimum	0.73	0.02	K 0.05	0.50		7.94		0.18	204	8

Appendix Table A-4, continued.

STORET M04S03 RM 9.10

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/15/93				K 2	K 0.2	43	K 30	K 10	772	K 2	10	120		K 40	K 2	12	149
07/29/93				K 2	K 0.2	47	K 30	K 10	489	K 2	12	104		K 40	K 2	K 10	167
08/12/93				K 2	K 0.2	45	K 30	K 10	592	K 2	11	99		K 40	K 2	10	158
08/26/93				K 2	K 0.2	41	K 30	K 10	1160	K 2	11	130		K 40	K 2	24	148
09/09/93				K 2	K 0.2	41	K 30	K 10	584	K 2	11	76		K 40	K 2	K 10	148
Average				K 2.0	K 0.20	43.4	K 30.0	K 10.0	719.4	K 2.0	11.0	105.8		K40.0	K 2.0	13.1	154.0
Maximum				K 2	K 0.2	47	K 30	K 10	1160	K 2	12	130		K 40	K 2	24	167
Minimum				K 2	K 0.2	41	K 30	K 10	489	K 2	10	76		K 40	K 2	K 10	148

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION [illegible]
RIVER MILE 6.57 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	22.8	7.0	7.88			1.2	5.3	25	20	399	
07/15/93	24.5	7.0				1.5	7.0	29	16	276	
07/29/93	29.6	7.5	8.42			2.0	5.2	22	23	419	
08/12/93	24.0	6.6	8.18			K 1.0	K 5.0	26	22	411	
08/26/93	28.5	7.8	7.86			K 1.0	5.0	18	24	394	
09/09/93	24.3	9.0	8.30			1.0	5.0	12	24	351	
Average	25.61	7.48	8.128			1.28	5.42	22.0	21.5	375.0	
Maximum	29.6	9.0	8.42			2.0	7.0	29	24	419	
Minimum	22.8	6.6	7.86			K 1.0	K 5.0	12	16	276	

STORET M04S02 RM 6.57

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	1.70	0.03	K 0.05	0.50				0.30	272	15
07/15/93	0.64	0.06	K 0.05	0.60		8.06		0.28	210	198
07/29/93	1.04	K 0.02	K 0.05	0.60				0.21	266	10
08/12/93	2.78	0.03	K 0.05	0.40				0.23	258	12
08/26/93	1.46	0.03	K 0.05	0.60				0.24	242	26
09/09/93	0.68	K 0.02	K 0.05	0.40				0.13	212	11
Average	1.383	0.031	K 0.050	0.516		8.06		0.231	243.3	45.3
Maximum	2.78	0.06	K 0.05	0.60		8.06		0.30	272	198
Minimum	0.64	K 0.02	K 0.05	0.40		8.09		0.13	210	10

Appendix Table A-4, continued.

STORET M04S02 RM 6.57

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93				K 2	K 0.2	50	K 30	K 10	1180	K 2	11	145	K 0.20	K 40	K 2	11	170
07/15/93				5	K 0.2	39	K 30	K 10	6990	5	9	253		K 40	K 2	38	134
07/29/93				K 2	K 0.2	52	K 30	K 10	896	K 2	12	147		K 40	K 2	K 10	179
08/12/93				K 2	K 0.2	51	K 30	K 10	744	K 2	12	103		K 40	K 2	25	177
08/26/93				K 2	K 0.2	47	K 30	K 10	1530	K 2	11	119		K 40	K 2	24	163
09/09/93				K 2	K 0.2	42	K 30	K 10	693	K 2	11	71		K 40	K 2	K 10	150
Average				2.5	K 0.20	46.8	K 30.0	K 10.0	2005.5	2.5	11.0	139.6	K 0.200	K40.0	K 2.0	19.6	162.1
Maximum				5	K 0.2	52	K 30	K 10	6990	5	12	253	K 0.20	K 40	K 2	38	179
Minimum				K 2	K 0.2	39	K 30	K 10	693	K 2	9	71	K 0.20	K 40	K 2	K 10	134

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION [illegible]
RIVER MILE 4.85 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	22.0	7.4	8.00	0.06		2.4	7.3	30	56	642	K 5
07/15/93	25.0	6.9		0.20		1.5	8.0	34	15	291	K 5
07/29/93	26.8	9.3	7.68	0.14		2.3	6.6	25	26	445	K 5
08/12/93	22.5	6.7	7.80	0.06		2.4	9.0	32	92	860	K 5
08/26/93	27.1	7.3	7.43	0.07		1.0	13.0	25	36	549	K 5
09/09/93	23.0	8.3	7.89	0.05		3.0	12.0	32	101	862	K 5
Average	24.39	7.64	7.76	0.096		2.09	9.31	29.6	54.3	608.1	K 5.0
Maximum	27.1	9.3	8.00	0.20		3.0	13.0	34	101	862	K 5
Minimum	22.0	6.7	7.43	0.05		1.0	6.6	25	15	291	K 5

STORET M04S25 RM 4.85

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	5.75	0.05	0.06	0.80			10	1.49	418	34
07/15/93	0.73	0.04	K 0.05	0.60		8.03	K 10	0.29	196	158
07/29/93	1.53	K 0.02	K 0.05	0.80			K 10	0.88	286	14
08/12/93	1.48	0.08	K 0.05	1.40			13	3.09	560	18
08/26/93	1.46	0.05	0.06	1.20			K 10	2.30	346	37
09/09/93	11.40	0.21	0.17	1.70			K 10	3.64	538	K 5
Average	3.724	0.075	0.073	1.083		8.03	10	1.948	390.6	44.3
Maximum	11.40	0.21	0.17	1.70		8.03	13	3.64	560	158
Minimum	0.73	K 0.02	K 0.05	0.60		8.03	K 10	0.29	196	K 5

Appendix Table A-4, continued.

STORET M04S25 RM 4.85

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93	3300	5900	2900	K 2	K 0.2	55	K 30	K 10	2090	2	13	144	K 0.20	K 40	K 2	45	191
07/15/93	5800	38000	3400	3	K 0.2	41	K 30	K 10	6120	5	10	289		K 40	K 2	25	144
07/29/93	150	115	125	K 2	K 0.2	55	K 30	K 10	702	K 2	12	154	K 0.20	K 40	K 2	10	187
08/12/93	2000	760	780	K 2	K 0.2	69	K 30	K 10	757	K 2	16	79	K 0.20	K 40	K 4	47	238
08/26/93	40	460	50	K 2	K 0.2	56	K 30	K 10	1890	K 2	12	131	K 0.20	K 40	K 2	38	189
09/09/93	340	380	180	K 2	K 0.2	66	K 30	13	208	K 2	16	30	K 0.20	K 40	K 2	39	231
Average	1938.3	7602.5	1239.1	2.1	K 0.20	57.0	K 30.0	10.5	1961.1	2.5	13.1	137.8	K 0.200	K40.0	2.3	34.0	196.6
Maximum	5800	38000	3400	3	K 0.2	69	K 30	13	6120	5	16	289	K 0.20	K 40	K 4	47	238
Minimum	40	115	50	K 2	K 0.2	41	K 30	K 10	208	K 2	10	30	K 0.20	K 40	K 2	10	144

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION EAST FORK LMR
RIVER MILE 4.00 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	23.6	7.2	7.93			1.7	5.3	26	26	435	
07/15/93	25.0	6.8				1.6	7.0	36	19	307	
07/29/93	29.9	8.4	8.26			2.1	6.4	16	33	498	
08/12/93	24.0	6.9	7.99			1.0	K 5.0	27	33	515	
08/26/93	27.5	7.0			K	1.0	6.0	11	28	500	
09/09/93	23.0	8.9	8.02			1.0	6.0	15	33	410	
Average	25.50	7.53	8.05			1.39	5.95	21.8	28.6	444.1	
Maximum	29.9	8.9	8.26			2.1	7.0	36	33	515	
Minimum	23.0	6.8	7.93			K 1.0	K 5.0	11	19	307	

STORET 600590 RM 4.00

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	3.01	0.04	0.05	0.50				0.50	290	34
07/15/93	1.00	0.04	K 0.05	0.80		8.01		0.40	206	122
07/29/93	2.50	K 0.02	K 0.05	0.80				0.49	318	22
08/12/93	2.89	0.04	K 0.05	0.60				0.65	326	24
08/26/93	2.85	0.04	K 0.05	0.60		7.84		0.59	302	52
09/09/93	1.80	0.03	K 0.05	0.40				0.43	264	20
Average	2.341	0.035	0.050	0.616		7.925		0.510	284.3	45.6
Maximum	3.01	0.04	0.05	0.80		8.01		0.65	326	122
Minimum	1.00	K 0.02	K 0.05	0.40		7.84		0.40	206	20

Appendix Table A-4, continued.

STORET 600590 RM 4.00

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93	3900	2100	2700	K 2	K 0.2	51	K 30	K 10	2020	K 2	11	159	K 0.20	K 40	K 2	66	173
07/15/93	5000	46000	3800	3	K 0.2	42	K 30	K 10	5750	5	10	263		K 40	K 2	36	146
07/29/93	100	260	100	K 2	K 0.2	57	K 30	K 10	808	K 2	13	137		K 40	K 2	11	196
08/12/93	170	270	160	K 2	K 0.2	54	K 30	K 10	1030	K 2	13	118		K 40	K 2	23	188
08/26/93				K 2	K 0.2	54	K 30	K 10	2360	K 2	13	153		K 40	K 2	39	188
09/09/93	210	115	100	K 2	K 0.2	46	K 30	K 10	1130	K 2	12	97		K 40	K 2	21	164
Average	1876.0	9749.0	1372.0	2.1	K 0.20	50.6	K 30.0	K 10.0	2183.0	2.5	12.0	154.5	K 0.200	K40.0	K 2.0	32.6	175.8
Maximum	5000	46000	3800	3	K 0.2	57	K 30	K 10	5750	5	13	263	K 0.20	K 40	K 2	66	196
Minimum	100	115	100	K 2	K 0.2	42	K 30	K 10	808	K 2	10	97	K 0.20	K 40	K 2	11	146

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET 610530 SITE LOCATION EASTFORK LMR
RIVER MILE 0.77 [illegible] CLEV[illegible] ND AVE

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	23.1	6.4	7.92			1.3	5.3	26	30	494	
07/15/93	25.2	6.1				1.3	6.0	26	21	343	
07/29/93	27.9	8.3	8.32				6.4	28			
08/12/93	24.0	6.1	8.12			1.1	K 5.0	27	37	536	
08/26/93	27.5	5.8	7.88			K 1.0	5.4	K 10	25	440	
09/09/93	22.0	7.5	8.10			1.0	6.0	14	33	416	
Average	24.94	6.70	8.068			1.14	5.68	21.8	29.2	445.8	
Maximum	27.9	8.3	8.32			1.3	6.4	28	37	536	
Minimum	22.0	5.8	7.88			K 1.0	K 5.0	K 10	21	343	

STORET 610530 RM 0.77

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	3.05	0.04	K 0.05	0.50				0.47	326	17
07/15/93	1.14	0.05	K 0.05	0.60		8.05		0.35	238	98
07/29/93	2.22		K 0.05	0.90				0.54		
08/12/93	2.50	0.04	K 0.05	0.70				0.62	338	28
08/26/93	2.03	0.06	0.05	0.60				0.43	277	54
09/09/93	1.81	0.03	K 0.05	0.40				0.48	268	31
Average	2.125	0.044	0.050	0.616		8.05		0.481	289.4	45.6
Maximum	3.05	0.06	0.05	0.90		8.05		0.62	338	98
Minimum	1.14	0.03	K 0.05	0.40		8.05		0.35	238	17

Appendix Table A-4, continued.

STORET 610530 RM 0.77

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93	570	230	460	K 2	K 0.2	54	K 30	K 10	1190	K 2	12	180	K 0.20	K 40	K 2	K 10	184
07/15/93	5300	24000	4400	3	K 0.2	48	K 30	K 10	4500	K 2	11	182		K 40	K 2	34	165
07/29/93	230	100	60	K 2	K 0.2	60	K 30	K 10	874	K 2	15	196		K 40	K 2	K 10	212
08/12/93	2500	250	80	K 2	K 0.2	60	K 30	K 10	1270	2	14	168		K 40	K 2	45	207
08/26/93	70	590	130	K 2	K 0.2	52	K 30	K 10	3080	K 2	12	164		K 40	K 2	25	179
09/09/93	150	140	200	K 2	K 0.2	48	K 30	K 10	1290	2	12	117		53	K 2	44	169
Average	1470.0	4218.3	888.3	2.1	K 0.20	53.6	K 30.0	K 10.0	2034.0	2.0	12.6	167.8	K 0.200	42.1	K 2.0	28.0	186.0
Maximum	5300	24000	4400	3	K 0.2	60	K 30	K 10	4500	2	15	196	K 0.20	53	K 2	45	212
Minimum	70	100	60	K 2	K 0.2	48	K 30	K 10	874	K 2	11	117	K 0.20	K 40	K 2	K 10	165

NOTE: K = less than
L = greater than

Appendix Table A-4. LITTLE MIAMI RIVER SURVEY CHEMICAL\PHYSICAL SAMPLING RESULTS1993

STORET M01P01 SITE LOCATION LITTLE_MIAMI
RIVER MILE 101.30 #1 CLIFTON RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/13/93	18.1	8.2	7.53			K 1.0	K 5.0	10	29	699	
08/10/93	18.1	5.1				1.4	K 5.0	13	27	797	
08/24/93	22.0	3.5				K 1.0	K 5.0	18	24	814	
09/21/93	17.0	4.2				K 1.0	K 5.0	K 10	26	794	
Average	18.79	5.25	7.530			1.10	K 5.00	12.7	26.5	776.0	
Maximum	22.0	8.2	7.53			1.4	K 5.0	18	29	814	
Minimum	17.0	3.5	7.53			K 1.0	K 5.0	K 10	24	699	

STORET M01P01 RM 101.30

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/13/93	9.00	0.05	K 0.05	0.50				0.21	496	12
08/10/93	0.47	0.02	K 0.05	0.40		8.08		K 0.05	658	5
08/24/93	0.33	0.02	K 0.05	0.20		7.97		0.23	590	6
09/21/93	K 0.10	K 0.02	K 0.05	0.40		8.09		0.10	528	11
Average	2.475	0.027	K 0.050	0.375		8.047		0.147	568.0	8.5
Maximum	9.00	0.05	K 0.05	0.50		8.09		0.23	658	12
Minimum	K 0.10	K 0.02	K 0.05	0.20		7.97		K 0.05	496	5

Appendix Table A-4, continued.

STORET M01P01 RM 101.30

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/13/93	3800	3400	2400	K 2	K 0.2	90	K 30	K 10	713	K 2	37	28		K 40	K 2	30	377
08/10/93	L 60000	1250	1050	K 2	K 0.2	95	K 30	K 10	284	K 2	44	70		K 40	K 2	24	418
08/24/93	6820	3200	6200	3	K 0.2	103	K 30	K 10	417	K 2	46	119		K 40	K 2	19	447
09/21/93	2100	720	1700	K 3	K 0.2	104	K 30	K 10	670	K 2	47	95		K 40	K 2	49	453
Average	18180.0	2142.5	2837.5	2.5	K 0.20	98.0	K 30.0	K 10.0	521.0	K 2.0	43.5	78.0		K 40.0	K 2.0	30.5	423.7
Maximum	L 60000	3400	6200	3	K 0.2	104	K 30	K 10	713	K 2	47	119		K 40	K 2	49	453
Minimum	2100	720	1050	K 2	K 0.2	90	K 30	K 10	284	K 2	37	28		K 40	K 2	19	377

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01P02 SITE LOCATION LITTLE MIAMI
RIVER MILE 98.98 AT DOLLY VARDEN RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	19.7	6.8	7.83			1.3	K 5.0	39	29	665	
07/13/93	18.8	8.2	7.33			K 1.0	K 5.0	13	22	626	
07/27/93	21.0	7.9	7.60			K 1.0	K 5.0	K 10	19	628	
08/10/93	18.0	5.6				K 1.0	K 5.0	10	28	740	
08/24/93	22.0	5.6				K 1.0	K 5.0	12	23	750	
09/07/93	18.5	6.5				K 1.0	K 5.0	17	35	757	
09/21/93	17.0	5.3				K 1.0	K 5.0	17	37	765	
Average	19.28	6.55	7.587			1.04	K 5.00	16.8	27.5	704.4	
Maximum	22.0	8.2	7.83			1.3	K 5.0	39	37	765	
Minimum	17.0	5.3	7.33			K 1.0	K 5.0	K 10	19	626	

STORET M01P02 RM 98.98

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	5.81	0.12	K 0.05	0.60				0.14	446	K 5
07/13/93	10.10	0.05	K 0.05	0.70				0.10	438	21
07/27/93	6.72	0.05	K 0.05	0.30				0.08	402	10
08/10/93	4.89	0.15	K 0.05	0.50		8.04		K 0.05	596	K 5
08/24/93	5.01	0.19	K 0.05	0.40		7.94		K 0.05	516	5
09/07/93	4.64	0.09	K 0.05	0.40		7.95		0.08	512	K 5
09/21/93	5.81	0.09	K 0.05	0.40		8.93		K 0.05	494	K 5
Average	6.139	0.105	K 0.050	0.471		8.215		0.078	486.2	8.0
Maximum	10.10	0.19	K 0.05	0.70		8.93		0.14	596	21
Minimum	4.64	0.05	K 0.05	0.30		7.94		K 0.05	402	K 5

Appendix Table A-4, continued.

STORET M01P02 RM 98.98

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93				K 2	K 0.2	76	K 30	K 10	104	K 2	36	K 10		K 40	K 2	45	338
07/13/93				K 2	K 0.2	82	K 30	K 10	913	K 2	34	31		K 40	K 2	55	345
07/27/93				K 2	K 0.2	82	K 30	K 10	448	K 2	35	16		K 40	K 2	K 27	349
08/10/93				K 2	K 0.2	79	K 30	K 10	63	K 2	45	16		K 40	K 2	30	374
08/24/93				K 2	K 0.2	80	K 30	K 10	192	K 2	42	22		K 40	K 2	69	373
09/07/93				2	K 0.2	85	K 30	K 10	144	K 2	42	32		K 40	K 2	103	385
09/21/93				K 2	K 0.2	80	K 30	K 10	92	K 2	43	15		K 40	K 2	48	377
Average				2.0	K 0.20	80.5	K 30.0	K 10.0	279.4	K 2.0	39.5	20.2		K 40.0	K 2.0	53.8	363.0
Maximum				2	K 0.2	85	K 30	K 10	913	K 2	45	32		K 40	K 2	103	385
Minimum				K 2	K 0.2	76	K 30	K 10	63	K 2	34	K 10		K 40	K 2	K 27	338

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01P07 SITE LOCATION LITTLE MIAMI
RIVER MILE 89.12 #3 S.R. 72

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	19.3	8.4	7.94			K 1.0	K 5.0	18	23	637	
07/13/93	20.7	9.5	7.61			K 1.0	K 5.0	25	19	573	
07/27/93	24.0	8.3	7.00			K 1.0	K 5.0	K 10	18	569	
08/10/93	19.6	8.6				K 1.0	K 5.0	12	24	691	
08/24/93	22.5	5.5				K 1.0	K 5.0	K 10	32	695	
09/07/93	19.5	8.0				K 1.0	K 5.0	14	25	685	
09/21/93	17.1	8.4				K 1.0	K 5.0	10	24	697	
Average	20.38	8.09	7.517			K 1.00	K 5.00	14.1	23.5	649.5	
Maximum	24.0	9.5	7.94			K 1.0	K 5.0	25	32	697	
Minimum	17.1	5.5	7.00			K 1.0	K 5.0	K 10	18	569	

STORET M01P07 RM 89.12

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	3.24	0.05	K 0.05	0.40				0.07	424	26
07/13/93	7.31	0.06	0.05	0.70				0.11	406	50
07/27/93	4.16	0.03	K 0.05	0.30				0.11	368	33
08/10/93	3.03	0.02	K 0.05	0.40		8.30		K 0.05	550	17
08/24/93	3.12	0.03	K 0.05	0.30		8.27		0.08	452	16
09/07/93	2.80	0.02	K 0.05	0.30		8.22		0.08	462	24
09/21/93	3.22	0.02	0.05	0.40		8.19		0.07	432	K 5
Average	3.839	0.032	0.050	0.400		8.245		0.081	442.0	24.4
Maximum	7.31	0.06	0.05	0.70		8.30		0.11	550	50
Minimum	2.80	0.02	K 0.05	0.30		8.19		K 0.05	368	K 5

Appendix Table A-4, continued.

STORET M01P07 RM 89.12

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	757	900	560	K 2	K 0.2	81	K 30	K 10	1040	K 2	34	36		K 40	K 2	31	342
07/13/93	1600	3700	230	K 2	K 0.2	77	K 30	K 10	2360	K 2	29	72		K 40	K 2	K 10	312
07/27/93	1130	640	1100	3	K 0.2	75	K 30	137	1410	K 2	31	43		K 40	K 2	34	315
08/10/93	77	320	90	K 2	K 0.2	83	K 30	K 10	684	K 2	39	41		K 40	K 2	K 10	368
08/24/93	320	330	2700	K 2	K 0.2	87	K 30	K 10	681	K 2	37	40		K 40	K 2	K 10	370
09/07/93	30	620	50	3	K 0.2	92	K 30	K 10	1040	K 2	38	77		K 40	K 2	62	386
09/21/93	530	120	420	K 2	0.9	87	K 30	K 10	240	K 2	37	41		K 40	K 2	10	370
Average	634.8	947.1	735.7	2.2	0.30	83.1	K 30.0	28.1	1065.0	K 2.0	35.0	50.0		K 40.0	K 2.0	23.8	351.8
Maximum	1600	3700	2700	3	0.9	92	K 30	137	2360	K 2	39	77		K 40	K 2	62	386
Minimum	30	120	50	K 2	K 0.2	75	K 30	K 10	240	K 2	29	36		K 40	K 2	K 10	312

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01P12 SITE LOCATION LITTLE MIAMI
RIVER MILE 85.38 @ GRINNELL RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/13/93	21.2	9.2	7.97			K 1.0	K 5.0	20	19	571	
08/10/93	19.0	9.2				K 1.0	K 5.0	12	24	669	
08/24/93	21.5	7.8				K 1.0	K 5.0	11	31	660	
09/21/93	17.2	9.2				K 1.0	K 5.0	10	22	663	
Average	19.72	8.84	7.970			K 1.00	K 5.00	13.2	24.0	640.7	
Maximum	21.5	9.2	7.97			K 1.0	K 5.0	20	31	669	
Minimum	17.2	7.8	7.97			K 1.0	K 5.0	10	19	571	

STORET M01P12 RM 85.38

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/13/93	7.18	0.05	K 0.05	0.60				0.11	410	54
08/10/93	3.10	K 0.02	K 0.05	0.30		8.33		0.06	554	7
08/24/93	3.26	0.02	K 0.05	K 0.20		8.22		0.14	450	10
09/21/93	3.40	K 0.02	K 0.05	0.20		8.28		0.09	422	10
Average	4.235	0.027	K 0.050	0.325		8.277		0.100	459.0	20.2
Maximum	7.18	0.05	K 0.05	0.60		8.33		0.14	554	54
Minimum	3.10	K 0.02	K 0.05	K 0.20		8.22		0.06	410	7

Appendix Table A-4, continued.

STORET M01P12 RM 85.38

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/13/93	2800	2800	1800	K 2	K 0.2	74	K 30	K 10	3460	3	29	88		K 40	K 2	19	304
08/10/93	84	310	50	K 2	K 0.2	79	K 30	K 10	311	K 2	38	11		K 40	K 2	K 10	354
08/24/93				K 2	K 0.2	82	K 30	K 10	339	K 2	38	11		K 40	K 2	K 10	361
09/21/93	2500	210	580	K 2	K 0.2	81	K 30	K 10	337	K 2	37	16		K 40	K 2	K 10	355
Average	1794.7	1106.7	810.0	K 2.0	K 0.20	79.0	K 30.0	K 10.0	1111.7	2.2	35.5	31.5		K 40.0	K2.0	12.2	343.5
Maximum	2800	2800	1800	K 2	K 0.2	82	K 30	K 10	3460	3	38	88		K 40	K 2	19	361
Minimum	84	210	50	K 2	K 0.2	74	K 30	K 10	311	K 2	29	11		K 40	K 2	K 10	304

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE 83.14 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/13/93	21.2	7.4	8.16			K 1.0	K 5.0	20	18	545	
08/10/93	19.5	9.6				K 1.0	K 5.0	13	29	688	
08/24/93	22.5	7.9				K 1.0	K 5.0	16	46	686	
09/21/93	18.0	8.3				K 1.0	K 5.0	10	33	722	
Average	20.29	8.29	8.160			K 1.00	K 5.00	14.7	31.5	660.2	
Maximum	22.5	9.6	8.16			K 1.0	K 5.0	20	46	722	
Minimum	18.0	7.4	8.16			K 1.0	K 5.0	10	18	545	

STORET M01S09 RM 83.14

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/13/93	6.89	0.04	K 0.05	0.60				0.14	410	58
08/10/93	2.96	0.02	K 0.05	0.40		8.37		0.64	546	7
08/24/93	3.38	0.03	0.10	0.30		8.25		0.19	454	K 5
09/21/93	3.44	K 0.02	K 0.05	0.20		8.30		0.12	438	12
Average	4.167	0.027	0.062	0.375		8.307		0.272	462.0	20.5
Maximum	6.89	0.04	0.10	0.60		8.37		0.64	546	58
Minimum	2.96	K 0.02	K 0.05	0.20		8.25		0.12	410	K 5

Appendix Table A-4, continued.

STORET M01S09 RM 83.14

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/13/93	5400	2800	3200	K 2	K 0.2	72	K 30	K 10	2730	K 2	28	69		K 40	K 2	K 10	295
08/10/93	133	330	140	K 2	K 0.2	77	K 30	K 10	242	K 2	38	14		K 40	K 2	16	349
08/24/93	80	180	70	K 2	K 0.2	83	K 30	K 10	257	K 2	37	12		K 40	K 2	K 10	360
09/21/93	70	250	50	K 2	K 0.2	85	K 30	K 10	268	K 2	39	15		K 40	K 2	K 10	373
Average	1420.7	890.0	865.0	K 2.0	K 0.20	79.2	K 30.0	K 10.0	874.2	K 2.0	35.5	27.5		K 40.0	K 2.0	11.5	344.2
Maximum	5400	2800	3200	K 2	K 0.2	85	K 30	K 10	2730	K 2	39	69		K 40	K 2	16	373
Minimum	70	180	50	K 2	K 0.2	72	K 30	K 10	242	K 2	28	12		K 40	K 2	K 10	295

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE [illegible]
RIVER MILE [illegible] [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	8.0	20.0	8.01		108.9	1.0	K 5.0	32	25	636	K 5
07/13/93	21.8	8.6	7.88			K 1.0	K 5.0	20	18	531	
07/27/93	23.0	7.6	7.92			K 1.0	K 5.0	10	18	500	
08/10/93	19.5	10.4				K 1.0	K 5.0	K 10	28	680	
08/24/93	18.5	8.1				K 1.0	K 5.0	K 10	53	679	
09/07/93	19.8	8.1			28.9	K 1.0	K 5.0	11	32	653	
09/21/93	17.6	8.3			20.6	K 1.0	K 5.0	10	33	720	
Average	18.31	10.15	7.937		52.80	1.00	K 5.00	14.7	29.5	628.4	K 5
Maximum	23.0	20.0	8.01		108.9	1.0	K 5.0	32	53	720	5
Minimum	8.0	7.6	7.92		20.60	K 1.0	K 5.0	K 10	18	500	K 5

STORET 600570 RM 80.63

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	3.86	0.04	K 0.05	0.30			K 10	0.11	434	29
07/13/93	6.78	0.04	K 0.05	0.70				0.14	384	46
07/27/93	3.76	0.02	K 0.05	0.40				0.11	334	28
08/10/93	4.71	K 0.02	K 0.05	0.40		8.43		0.08	542	6
08/24/93	3.13	0.02	K 0.05	0.20		8.29		0.11	450	7
09/07/93	2.66	K 0.02	K 0.05	0.30		8.35		0.13	442	20
09/21/93	3.30	K 0.02	K 0.05	0.30		8.35		0.11	446	14
Average	4.028	0.025	K 0.050	0.371		8.355	K 10	0.112	433.1	21.4
Maximum	6.78	0.04	K 0.05	0.70		8.43	K 10	0.14	542	46
Minimum	2.66	K 0.02	K 0.05	0.20		8.29	K 10	0.08	334	6

Appendix Table A-4, continued.

STORET 600570 RM 80.63

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	3700	3000	1500	K 2	0.2	80	K 30	K 10	1180	4	35	37		K 40	K 2	136	344
07/13/93	4200	1800	3900	K 2	K 0.2	76	K 30	K 10	3340	K 2	29	91		K 40	K 2	22	309
07/27/93	1400	840	1600	3	K 0.2	67	K 30	K 10	1710	K 2	28	35		K 40	K 2	14	283
08/10/93	35	200	80	K 2	K 0.2	76	K 30	K 10	207	K 2	39	14		K 40	K 2	K 10	350
08/24/93	100	140	30	K 2	K 0.2	82	K 30	K 10	328	K 2	37	13		K 40	K 2	K 10	357
09/07/93	40	380	40	K 2	K 0.2	85	K 30	K 10	664	K 2	36	28		K 40	K 2	15	360
09/21/93	310	240	100	K 2	K 0.2	84	K 30	K 10	413	K 2	38	20		K 40	K 2	16	366
Average	1397.8	942.8	1035.7	2.1	0.20	78.5	K 30.0	K 10.0	1120.2	2.2	34.5	34.0		K 40.0	K 2.0	31.8	338.4
Maximum	4200	3000	3900	3	0.2	85	K 30	K 10	3340	4	39	91		K 40	K 2	136	366
Minimum	35	140	30	K 2	K 0.2	67	K 30	K 10	207	K 2	28	13		K 40	K 2	K 10	283

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S32 SITE LOCATION LITTLE MIAMI
RIVER MILE 77.00 #7 KENNA FORD RD WWTP MIX

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	21.9	8.9	7.74			1.0	K 5.0	19	32	660	K 5
07/13/93	22.5	8.0	8.02	0.09		K 1.0	K 5.0	21	28	565	K 5
07/27/93	23.5	8.0	8.62	0.01		K 1.0	K 5.0	K 10	31	590	
08/10/93	20.0	11.0		0.03		K 1.0	K 5.0	13	53	787	K 5
08/24/93	25.0	9.2				K 1.0	K 5.0	15	37	740	K 5
09/07/93	20.8	8.2		0.06		1.0	K 5.0	19	62	774	K 5
09/21/93	18.5	8.5		0.02		K 1.0	K 5.0	K 10	78	878	K 5
Average	21.74	8.82	8.127	0.042		1.00	K 5.00	15.2	45.8	713.4	K 5
Maximum	25.0	11.0	8.62	0.09		1.0	K 5.0	21	78	878	5
Minimum	18.5	8.0	7.74	0.01		K 1.0	K 5.0	K 10	28	565	K 5

STORET M01S32 RM 77.00

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	3.92	0.04	0.05	0.40			K 10	0.18	442	26
07/13/93	7.01	0.05	K 0.05	0.80			K 10	0.23	408	75
07/27/93	3.52	0.02	K 0.05	0.30			K 10	0.19	362	22
08/10/93	3.73	0.02	K 0.05	0.40		8.35	K 10	0.45	620	K 5
08/24/93	3.86	0.03	K 0.05	0.40		8.31	K 10	0.28	484	6
09/07/93	3.89	0.03	K 0.05	0.50		8.16	K 10	0.44	512	10
09/21/93	4.85	0.04	K 0.05	0.50		8.17	K 10	0.53	540	8
Average	4.397	0.032	0.050	0.471		8.248	K 10	0.328	481.1	21.7
Maximum	7.01	0.05	0.05	0.80		8.35	K 10	0.53	620	75
Minimum	3.52	0.02	K 0.05	0.30		8.16	K 10	0.18	362	K 5

Appendix Table A-4, continued.

STORET M01S32 RM 77.00

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93				K 2	K 0.2	82	K 30	K 10	845	K 2	35	29		K 40	K 2	15	349
07/13/93	5400	2400	3800	K 2	K 0.2	75	K 30	K 10	2840	K 2	30	70		K 40	K 2	K 10	311
07/27/93	996	580	705	K 4	K 0.2	71	K 30	K 10	1500	K 2	28	26	K 0.20	K 40	K 2	K 10	293
08/10/93	310	225	35	K 2	K 0.2	84	K 30	K 10	190	K 2	39	12	K 0.20	K 40	K 2	61	370
08/24/93	3800	1200	1600	K 2	K 0.2	83	K 30	K 10	267	K 2	37	16	K 0.20	K 40	K 2	K 10	360
09/07/93	10	350	20	2	K 0.2	84	K 30	K 10	495	K 2	35	25	K 0.20	K 40	K 2	K 10	354
09/21/93	180	250	150	K 2	K 0.2	89	K 30	K 10	270	K 2	38	20	K 0.20	K 40	K 2	K 10	379
Average	1782.7	834.2	1051.7	2.2	K 0.20	81.1	K 30.0	K 10.0	915.2	K 2.0	34.5	28.2	K 0.20	K 40.0	K 2.0	18.0	345.1
Maximum	5400	2400	3800	4	K 0.2	89	K 30	K 10	2840	K 2	39	70	K 0.20	K 40	K 2	61	379
Minimum	10	225	20	K 2	K 0.2	71	K 30	K 10	190	K 2	28	12	K 0.20	K 40	K 2	K 10	293

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01W25 SITE LOCATION LITTLE MIAMI
RIVER MILE 76.43 @ JUST UPST SHAWNEE CR

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	21.9	8.9	7.74			1.0	K 5.0	24	31	652	
07/13/93	23.0	8.6	8.02			K 1.0	K 5.0	14	22	541	
07/27/93	24.2	8.3	8.10			K 1.0	K 5.0	11	24	546	
08/10/93	19.5	9.4				K 1.0	K 5.0	14	41	742	
08/24/93	25.2	9.3				K 1.0	K 5.0	14	118	754	
09/07/93	20.5	7.5				K 1.0	K 5.0	18	55	742	
09/21/93	18.4	8.6				K 1.0	K 5.0	K 10	54	814	
Average	21.81	8.65	7.953			1.00	K 5.00	15.0	49.2	684.4	
Maximum	25.2	9.4	8.10			1.0	K 5.0	24	118	814	
Minimum	18.4	7.5	7.74			K 1.0	K 5.0	K 10	22	541	

STORET M01W25 RM 76.43

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	3.74	0.04	K 0.05	0.30				0.16	444	19
07/13/93	6.94	0.04	K 0.05	0.70				0.15	410	36
07/27/93	3.50	0.02	K 0.05	0.30				0.12	348	25
08/10/93	3.38	0.02	0.05	0.40		8.38		0.30	524	11
08/24/93	3.68	0.03	K 0.05	0.30		8.31		0.28	499	8
09/07/93	3.40	0.02	K 0.05	0.30		8.13		0.29	490	17
09/21/93	4.28	K 0.02	K 0.05	0.40		8.22		0.36	500	16
Average	4.131	0.027	0.050	0.385		8.260		0.237	459.2	18.8
Maximum	6.94	0.04	0.05	0.70		8.38		0.36	524	36
Minimum	3.38	K 0.02	K 0.05	0.30		8.13		0.12	348	8

Appendix Table A-4, continued.

STORET M01W25 RM 76.43

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	1300	750	1000	K 2	K 0.2	82	K 30	K 10	953	K 2	35	33		K 40	K 2	K 10	349
07/13/93	2800	2800	3600	K 2	K 0.2	80	K 30	K 10	2610	K 2	29	70		K 40	K 2	16	319
07/27/93	631	500	400	4	K 0.2	69	K 30	K 10	1240	K 2	28	22		K 40	K 2	K 10	288
08/10/93	32	400	30	K 2	K 0.2	83	K 30	K 10	207	K 2	39	14		K 40	K 2	K 10	368
08/24/93	370	240	270	K 2	K 0.2	84	K 30	K 10	262	K 2	38	16		K 40	K 2	K 10	366
09/07/93	10	310	30	2	K 0.2	86	K 30	K 10	554	K 2	36	29		K 40	K 2	K 10	363
09/21/93	190	210	140	K 2	K 0.2	90	K 30	K 10	376	K 2	38	26		K 40	K 2	12	381
Average	761.8	744.2	781.4	2.2	K 0.20	82.0	K 30.0	K 10.0	886.0	K 2.0	34.7	30.0		K 40.0	K 2.0	11.1	347.7
Maximum	2800	2800	3600	4	K 0.2	90	K 30	K 10	2610	K 2	39	70		K 40	K 2	16	381
Minimum	10	210	30	K 2	K 0.2	69	K 30	K 10	207	K 2	28	14		K 40	K 2	K 10	288

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE 74.46 @ U.S. 35

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	21.5	8.6	7.87			1.1	K 5.0	28	31	654	
07/13/93	18.1	7.9				K 1.0	K 5.0	19	18	477	
07/27/93	18.3	7.7		0.08		K 1.0	K 5.0	K 10	20	503	
08/10/93	16.0	7.9				K 1.0	K 5.0	17	39	715	
08/24/93	18.5	6.3				K 1.0	K 5.0	K 10	46	745	
09/07/93	15.0	7.2				K 1.0	K 5.0	24	52	882	
09/21/93	13.0	8.4				K 1.0	K 5.0	11	61	817	
Average	17.19	7.71	7.870	0.08		1.01	K 5.00	17.0	38.1	684.7	
Maximum	21.5	8.6	7.87	0.08		1.1	K 5.0	28	61	882	
Minimum	13.0	6.3	7.87	0.08		K 1.0	K 5.0	K 10	18	477	

STORET M01P10 RM 74.46

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	3.64	0.04	K 0.05	0.40				0.15	422	36
07/13/93	6.44	0.06	K 0.05	0.60		8.26		0.19	356	152
07/27/93	2.81	0.04	K 0.05	0.40		8.20		0.14	322	67
08/10/93	2.98	0.04	K 0.05	0.30		8.21		1.84	568	7
08/24/93	3.60	0.04	K 0.05	0.30		8.10		0.21	494	23
09/07/93	3.38	0.05	0.15	0.50		8.16		0.25	488	28
09/21/93	4.20	0.04	K 0.05	0.40		8.15		0.33	504	24
Average	3.864	0.044	0.064	0.414		8.180		0.444	450.5	48.1
Maximum	6.44	0.06	0.15	0.60		8.26		1.84	568	152
Minimum	2.81	0.04	K 0.05	0.30		8.10		0.14	322	7

Appendix Table A-4, continued.

STORET M01P10 RM 74.46

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93				3	K 0.2	82	K 30	K 10	1100	K 2	35	38		K 40	K 2	10	349
07/13/93				K 2	K 0.2	66	K 30	K 10	4960	4	26	120		K 40	K 2	35	272
07/27/93				3	K 0.2	63	K 30	K 10	3630	3	26	60		K 40	K 2	K 10	264
08/10/93				K 2	K 0.2	80	K 30	K 10	308	K 2	39	17		K 40	K 2	K 10	360
08/24/93				K 2	K 0.2	84	K 30	K 10	688	K 2	38	39		K 40	K 2	12	366
09/07/93				K 2	K 0.2	87	K 30	K 10	734	K 2	36	43		K 40	K 2	K 10	365
09/21/93				K 2	K 0.2	91	K 30	10	543	4	38	35		K 40	K 2	11	384
Average				2.2	K 0.20	79.0	K 30.0	10.0	1709.0	2.7	34.0	50.2		K 40.0	K2.0	14.0	337.1
Maximum				3	K 0.2	91	K 30	10	4960	4	39	120		K 40	K 2	35	384
Minimum				K 2	K 0.2	63	K 30	K 10	308	K 2	26	17		K 40	K 2	K 10	264

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01P13 SITE LOCATION LITTLE MIAMI
RIVER MILE 72.30 #10 INDIAN RIPPLE RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	19.0	8.4	7.74			1.0	K 5.0	34	48	687	
07/13/93	18.0	8.1				K 1.0	K 5.0	14	30	527	
07/27/93	18.8	7.8				K 1.0	K 5.0	K 10	32	590	
08/10/93	15.5	7.9				K 1.0	K 5.0	12	66	810	
08/24/93	18.0	7.6				K 1.0	K 5.0	35	81	842	
09/07/93	15.0	8.6				K 1.0	K 5.0	17	106		
09/21/93	13.0	8.4				K 1.0	K 5.0	K 10	91	926	
Average	16.75	8.11	7.740			1.00	K 5.00	18.8	64.8	730.3	
Maximum	19.0	8.6	7.74			1.0	K 5.0	35	106	926	
Minimum	13.0	7.6	7.74			K 1.0	K 5.0	K 10	30	527	

STORET M01P13 RM 72.30

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	2.90	0.04	K 0.05	0.40				0.24	452	71
07/13/93	5.53	0.05	K 0.05	0.50		8.21		0.24	380	114
07/27/93	3.19	0.03	K 0.05	0.30				0.18	363	53
08/10/93	3.44	0.03	K 0.05	0.40		8.12		0.75	610	9
08/24/93	4.15	0.02	K 0.05	0.20		8.10		0.52	522	17
09/07/93	4.08	0.03	K 0.05	0.50		8.12		0.64	568	20
09/21/93	4.45	0.02	K 0.05	0.40		8.13		0.68	552	18
Average	3.962	0.031	K 0.050	0.385		8.136		0.464	492.4	43.1
Maximum	5.53	0.05	K 0.05	0.50		8.21		0.75	610	114
Minimum	2.90	0.02	K 0.05	0.20		8.10		0.18	363	9

Appendix Table A-4, continued.

STORET M01P13 RM 72.30

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	2000	2000	1430	K 2	K 0.2	76	K 30	K 10	2120	3	30	74		K 40	K 2	10	313
07/13/93	5000	18200	2800	K 2	K 0.4	70	K 30	K 10	5000	K 2	26	123		K 40	K 2	28	282
07/27/93	1700	800	2500	K 2	K 0.2	68	K 30	K 10	2600	K 2	29	54		K 40	K 2	K 10	289
08/10/93	16	330	30														
08/24/93	270	460	220	K 2	K 0.2	81	K 30	K 10	566	K 2	35	31		K 40	K 2	K 10	346
09/07/93	20	440	130	K 2	K 0.2	82	K 30	K 10	511	K 2	33	33		K 40	K 2	15	341
09/21/93	210	230	110	K 2	K 0.2	85	K 30	K 10	430	K 2	36	29		K 40	K 2	13	360
Average	1316.5	3208.5	1031.4	K 2.0	K 0.20	77.0	K 30.0	K10.0	1871.2	2.2	31.5	57.3		K 40.0	K 2.0	14.3	321.8
Maximum	5000	18200	2800	K 2	K 0.4	85	K 30	K 10	5000	3	36	123		K 40	K 2	28	360
Minimum	16	230	30	K 2	K 0.2	68	K 30	K 10	430	K 2	26	29		K 40	K 2	K 10	282

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S07 SITE LOCATION LITTLE MIAMI
RIVER MILE 66.56 #11 LOWER BELLBROOK RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	18.0	7.8				1.1	7.3	37	33	571	
07/13/93	18.5	8.0				K 1.0	8.1	19	23	476	
07/27/93	19.3	7.8				K 1.0	K 5.0	K 10	40	719	
08/10/93	16.2	8.5				K 1.0	K 5.0	11	69	809	
08/24/93	18.5	7.5				K 1.0	K 5.0	16	81	839	
09/07/93	15.5	8.3				K 1.0	K 5.0	20	89	970	
09/21/93	13.5	8.6				K 1.0	K 5.0	13	100	950	
Average	17.07	8.07				1.01	5.78	18.0	62.1	762.0	
Maximum	19.3	8.6				1.1	8.1	37	100	970	
Minimum	13.5	7.5				K 1.0	K 5.0	K 10	23	476	

STORET M01S07 RM 66.56

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	2.43	0.06	0.09	0.40		8.10		0.25	368	132
07/13/93	5.34	0.07	K 0.05	0.30		8.25		0.44	352	164
07/27/93	3.81	K 0.02	K 0.05	0.40		8.32		0.15	450	18
08/10/93	3.35	0.02	K 0.05	0.50		8.32		0.27	616	10
08/24/93	3.85	0.02	K 0.05	0.30		8.10		0.43	524	19
09/07/93	3.98	0.02	K 0.05	0.30		8.21		0.45	534	17
09/21/93	4.60	0.03	K 0.05	0.60		8.19		0.67	568	18
Average	3.908	0.034	0.055	0.400		8.212		0.380	487.4	54.0
Maximum	5.34	0.07	0.09	0.60		8.32		0.67	616	164
Minimum	2.43	K 0.02	K 0.05	0.30		8.10		0.15	352	10

Appendix Table A-4, continued.

STORET M01S07 RM 66.56

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Cs-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	3400	12000	5700	K 2	K 0.2	69	K 30	K 10	6600	8	27	164		K 40	K 2	39	283
07/13/93	4650	12600	3650	K 2	K 0.2	67	K 30	K 10	2720	3	25	141		K 40	K 2	27	270
07/27/93	450	520	420	K 2	K 0.2	86	K 30	K 10	817	K 2	37	28		K 40	K 2	K 10	367
08/10/93	12	300	10	K 2	K 0.2	80	K 30	K 10	359	K 2	37	16		K 40	K 2	K 10	352
08/24/93	90	230	100	K 2	K 0.2	83	K 30	K 10	564	K 2	35	36		K 40	K 2	10	351
09/07/93	40	300	130	K 2	K 0.2	83	30	K 10	652	K 2	34	40		K 40	K 2	14	347
09/21/93	340	160	260	K 2	K 0.2	86	K 30	K 10	615	K 2	35	39		K 40	K 2	19	359
Average	1283.1	3730.0	1467.1	K 2.0	K 0.20	79.1	30.0	K 10.0	1761.0	3.0	32.8	66.2		K 40.0	K2.0	18.4	332.7
Maximum	4650	12600	5700	K 2	K 0.2	86	30	K 10	6600	8	37	164		K 40	K 2	39	367
Minimum	12	160	10	K 2	K 0.2	67	K 30	K 10	359	K 2	25	16		K 40	K 2	K 10	270

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE 64.40 #12 SUGAR CREEK WWTP MIX

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	18.0	7.8		0.18		2.0	6.0	37	79	729	7
07/13/93	17.9	8.1		0.13		K 1.0	6.0	18	99	742	K 5
07/27/93	19.7	8.4				K 1.0	K 5.0	K 10	66	792	
08/10/93	16.8	8.9		0.04		K 1.0	K 5.0	13	80	837	K 5
08/24/93	18.0	7.9		0.10		K 1.0	K 5.0	19	88	879	K 5
09/07/93	16.0	8.6		0.08		2.0	K 5.0	19	132	963	K 5
09/21/93	14.5	8.8		0.09		K 1.0	K 5.0	19	131	1020	K 5
Average	17.27	8.35		0.103		1.28	5.29	19.2	96.4	851.7	5.3
Maximum	19.7	8.9		0.18		2.0	6.0	37	132	1020	7
Minimum	14.5	7.8		0.04		K 1.0	K 5.0	K 10	66	729	K 5

STORET M01S31 RM 64.40

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	2.31	0.17	0.24	0.80		7.83	K 10	0.52	436	62
07/13/93	4.88	0.12	K 0.05	0.50		7.96	K 10	0.36	484	88
07/27/93	2.90	0.07	1.52	2.00		8.27	K 10	0.58	502	19
08/10/93	3.22	0.05	0.11	0.70		8.30	K 10	0.36	628	14
08/24/93	4.07	0.04	K 0.05	0.40		8.17	K 10	0.68	540	28
09/07/93	4.38	0.22	0.28	0.90		8.06	K 10	0.48	592	22
09/21/93	4.28	0.18	0.30	1.20		8.05	K 10	0.88	608	18
Average	3.719	0.121	0.364	0.928		8.091	K 10	0.551	541.4	35.8
Maximum	4.88	0.22	1.52	2.00		8.30	K 10	0.88	628	88
Minimum	2.31	0.04	K 0.05	0.40		7.83	K 10	0.36	436	14

Appendix Table A-4, continued.

STORET M01S31 RM 64.40

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	2300	2700	2500	K 2	K 0.2	64	K 30	K 10	4310	4	26	143		K 40	K 2	33	267
07/13/93				2	K 0.2	67	K 30	K 10	4040	2	26	104		K 40	K 2	31	274
07/27/93	170	190	90	K 2	K 0.2	81	K 30	K 10	588	K 2	35	35	K 0.20	K 40	K 2	K 10	346
08/10/93	10	K 10	K 10	K 2	K 0.2	77	K 30	K 10	442	K 2	35	28	K 0.20	K 40	K 2	K 10	336
08/24/93	2000	520	1600	K 2	K 0.2	73	K 30	K 10	510	K 2	31	30	K 0.20	K 40	K 2	12	310
09/07/93	90	110	14	2	K 0.2	75	K 30	K 10	572	K 2	31	48	K 0.20	K 40	K 2	K 10	315
09/21/93	5900	440	2800	K 2	K 0.2	80	K 30	K 10	440	K 2	33	45	1.55	K 40	K 2	13	336
Average	1745.0	661.7	1169.0	2.0	K 0.20	73.8	K 30.0	K 10.0	1557.4	2.2	31.0	61.8	0.470	K 40.0	K2.0	17.0	312.0
Maximum	5900	2700	2800	2	K 0.2	81	K 30	K 10	4310	4	35	143	1.55	K 40	K 2	33	346
Minimum	10	K 10	K 10	K 2	K 0.2	64	K 30	K 10	440	K 2	26	28	K 0.20	K 40	K 2	K 10	267

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S30 SITE LOCATION LITTLE MIAMI
RIVER MILE 64.28 #13 DST SUGARCREEK WWTP

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	18.2	7.6				1.4	6.5	33	37	572	
07/13/93	18.5	7.9				K 1.0	8.4	14	27	496	
07/27/93	19.8	7.9				K 1.0	K 5.0	K 10	50	746	
08/10/93	16.8	8.8				K 1.0	K 5.0	13	84	854	
08/24/93	18.5	7.3				K 1.0	K 5.0	20	95	896	
09/07/93	16.0	8.4				1.0	K 5.0	19	98	884	
09/21/93	14.0	8.9				K 1.0	K 5.0	10	112	933	
Average	17.39	8.11				1.05	5.70	17.0	71.8	768.7	
Maximum	19.8	8.9				1.4	8.4	33	112	933	
Minimum	14.0	7.3				K 1.0	K 5.0	K 10	27	496	

STORET M01S30 RM 64.28

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	2.28	0.06	0.09	0.40		8.09		0.29	364	144
07/13/93	4.83	0.06	K 0.05	0.40		8.21		0.25	350	159
07/27/93	3.65	0.03	0.19	0.40		8.35		0.20	462	21
08/10/93	3.14	0.06	0.28	0.70				0.55	632	15
08/24/93	3.98	0.04	K 0.05	0.50		8.04		0.56	552	20
09/07/93	4.08	0.07	0.08	0.40		8.20		0.45	552	25
09/21/93	4.20	0.09	0.11	0.70		8.14		0.68	562	19
Average	3.737	0.058	0.121	0.500		8.172		0.425	496.2	57.5
Maximum	4.83	0.09	0.28	0.70		8.35		0.68	632	159
Minimum	2.28	0.03	K 0.05	0.40		8.04		0.20	350	15

Appendix Table A-4, continued.

STORET M01S30 RM 64.28

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	6180	6500	3550	K 2	K 0.2	68	K 30	K 10	5810	7	25	175		K 40	K 2	61	273
07/13/93	7090	14400	4300	2	K 0.2	64	K 30	K 10	7340	4	25	151		K 40	K 2	19	263
07/27/93	270	520	210	K 2	K 0.2	84	K 30	K 10	626	K 2	37	K 10		K 40	K 2	K 10	362
08/10/93	540	80	K 10	K 2	K 0.2	82	K 30	K 10	405	K 2	36	22		K 40	K 2	K 10	353
08/24/93	590	210	900	K 2	K 0.2	82	K 30	K 10	749	K 2	35	37		K 40	K 2	K 10	349
09/07/93	40	70	6	K 2	K 0.2	82	K 30	K 10	805	K 2	33	50		K 40	K 2	K 10	341
09/21/93	500	100	305	K 2	K 0.2	83	K 30	K 10	524	K 2	34	38		K 40	K 2	12	347
Average	2172.8	3125.7	1325.8	2.0	K 0.20	77.8	K 30.0	K 10.0	2322.7	3.0	32.1	69.0		K 40.0	K2.0	18.8	326.8
Maximum	7090	14400	4300	2	K 0.2	84	K 30	K 10	7340	7	37	175		K 40	K 2	61	362
Minimum	40	70	6	K 2	K 0.2	64	K 30	K 10	405	K 2	25	K 10		K 40	K 2	K 10	263

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01W45 SITE LOCATION LITTLE MIAMI
RIVER MILE 63.28 #14 SPRING VALLEY PARK

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	17.8	7.7				1.4	7.5	26	36	571	
07/13/93	19.0	7.8				K 1.0	8.3	15	28	497	
07/27/93	20.0	8.6				K 1.0	K 5.0	K 10	48	775	
08/10/93	16.9	9.3				K 1.0	K 5.0	14	75	829	
08/24/93	18.5	7.3				K 1.0	K 5.0	13	91	876	
09/07/93	16.0	8.4				K 1.0	K 5.0	17	96	882	
09/21/93	14.0	8.7				K 1.0	K 5.0	K 10	96	913	
Average	17.45	8.25				1.05	5.84	15.0	67.1	763.2	
Maximum	20.0	9.3				1.4	8.3	26	96	913	
Minimum	14.0	7.3				K 1.0	K 5.0	K 10	28	497	

STORET M01W45 RM 63.28

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	2.41	0.07	0.07	0.50		8.06		0.29	360	101
07/13/93	4.98	0.06	K 0.05	0.70		8.21		0.41	360	134
07/27/93	3.77	0.03	0.13	0.30		8.39		1.29	462	14
08/10/93	3.52	0.04	K 0.05	0.40				1.74	622	10
08/24/93	4.16	0.03	K 0.05	0.70		8.12		0.56	564	24
09/07/93	4.27	0.08	0.08	0.60		8.22		0.44	546	24
09/21/93	4.46	0.06	0.07	0.50		8.21		0.58	564	16
Average	3.938	0.052	0.071	0.528		8.202		0.758	496.8	46.1
Maximum	4.98	0.08	0.13	0.70		8.39		1.74	622	134
Minimum	2.41	0.03	K 0.05	0.30		8.06		0.29	360	10

Appendix Table A-4, continued.

STORET M01W45 RM 63.28

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	5200	9500	4700	2	K 0.2	67	K 30	K 10	3760	5	26	162		K 40	K 2	33	274
07/13/93	4600	15400	4200	K 2	K 0.2	66	K 30	K 10	6850	4	26	156		K 40	K 2	24	272
07/27/93				K 2	K 0.2	86	K 30	K 10	520	K 2	37	21		K 40	K 2	K 10	367
08/10/93	250	120	K 10	K 2	K 0.2	81	K 30	K 10	358	K 2	36	23		K 40	K 2	K 10	351
08/24/93	140	230	180	K 2	K 0.2	83	K 30	K 10	668	K 2	34	33		K 40	K 2	K 10	347
09/07/93	160	290	420	K 2	K 0.2	82	K 30	K 10	636	K 2	33	40		K 40	K 2	K 10	341
09/21/93	180	80	90	K 2	K 0.2	86	K 30	K 10	495	K 2	33	33		K 40	K 2	18	351
Average	1755.0	4270.0	1600.0	2.0	K 0.20	78.7	K 30.0	K 10.0	1898.1	2.7	32.1	66.8		K 40.0	K2.0	16.4	329.0
Maximum	5200	15400	4700	2	K 0.2	86	K 30	K 10	6850	5	37	162		K 40	K 2	33	367
Minimum	140	80	K 10	K 2	K 0.2	66	K 30	K 10	358	K 2	26	21		K 40	K 2	K 10	272

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S29 SITE LOCATION LITTLE MIAMI
RIVER MILE 53.20 #15 DST WAYNESVILLE WWTP

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	19.0	7.7				1.2	7.5	24	30	469	
07/13/93	19.5	8.1				K 1.0	5.9	14	28	522	
07/27/93	20.8	8.8				K 1.0	K 5.0	K 10	47	750	
08/10/93	17.5	8.9				K 1.0	K 5.0	12	75	833	
08/24/93	19.2	7.6				K 1.0	K 5.0	12	78	853	
09/07/93	16.5	8.5				K 1.0	K 5.0	12	78	827	
09/21/93	14.0	9.4				K 1.0	K 5.0	14	97	931	
Average	18.07	8.42				1.02	5.49	14.0	61.8	740.7	
Maximum	20.8	9.4				1.2	7.5	24	97	931	
Minimum	14.0	7.6				K 1.0	K 5.0	K 10	28	469	

STORET M01S29 RM 53.20

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	1.99	0.06	0.05	0.40		8.12		0.29	308	231
07/13/93	4.03	0.04	K 0.05	0.40		8.28		0.22	368	200
07/27/93	3.79	0.14	K 0.05	K 0.20		8.38		0.22	458	29
08/10/93	3.21	0.04	K 0.05	0.50		8.36		0.30	626	13
08/24/93	3.85	0.03	K 0.05	K 0.20		8.13		0.64	540	29
09/07/93	4.00	0.02	K 0.05	0.30		8.25		0.40	517	30
09/21/93	4.91	0.03	K 0.05	0.50		8.23		0.54	562	21
Average	3.682	0.051	0.050	0.357		8.249		0.372	482.7	79.0
Maximum	4.91	0.14	0.05	0.50		8.38		0.64	626	231
Minimum	1.99	0.02	K 0.05	K 0.20		8.12		0.22	308	13

Appendix Table A-4, continued.

STORET M01S29 RM 53.20

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93				3	K 0.2	60	K 30	K 10	8000	9	21	226		K 40	K 2	44	236
07/13/93	3000	10700	2900	2	K 0.2	76	K 30	K 10	8280	6	29	213		K 40	K 2	28	309
07/27/93				K 2	K 0.2	88	K 30	K 10	851	K 2	37	34		K 40	K 2	K 10	372
08/10/93	80	80	30	K 2	K 0.2	82	K 30	K 10	502	K 2	35	30		K 40	K 2	K 10	349
08/24/93	150	270	100	K 2	K 0.2	85	K 30	K 10	875	K 2	34	41		K 40	K 2	K 10	352
09/07/93	110	300	40	K 2	K 0.2	87	K 30	K 10	1160	K 2	33	56		44	K 2	K 10	353
09/21/93	200	230	170	K 2	K 0.2	86	K 30	K 10	621	K 2	33	38		K 40	K 2	13	351
Average	708.8	2316.0	648.0	2.1	K 0.20	80.5	K 30.0	K 10.0	2898.4	3.5	31.7	91.1		40.5	K2.0	17.8	331.7
Maximum	3000	10700	2900	3	K 0.2	88	K 30	K 10	8280	9	37	226		44	K 2	44	372
Minimum	80	80	30	K 2	K 0.2	60	K 30	K 10	502	K 2	21	30		K 40	K 2	K 10	236

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05P01 SITE LOCATION LITTLE_MIAMI
RIVER MILE 47.50 #16 OREGONIA RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/29/93	19.0	7.8				2.0	K 5.0	27	32	437	
07/13/93	17.0	8.9				K 1.0	K 5.0	13	28	497	
07/27/93	22.0	8.3				K 1.0	K 5.0	K 10	50	711	
08/10/93	17.5	8.9				K 1.0	K 5.0	13	61	752	
08/24/93	19.2	7.6				K 1.0	K 5.0	13	73	795	
09/07/93	16.0	8.5				K 1.0	K 5.0	16	65	722	
09/21/93	14.5	8.8				K 1.0	K 5.0	14	72	775	
Average	17.88	8.39				1.14	K 5.00	15.1	54.4	669.8	
Maximum	22.0	8.9				2.0	K 5.0	27	73	795	
Minimum	14.5	7.6				K 1.0	K 5.0	K 10	28	437	

STORET M05P01 RM 47.50

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/29/93	1.99	0.06	K 0.05	0.40		8.10		0.31	264	250
07/13/93	3.29	0.05	0.06	K 0.20		8.22		0.12	344	120
07/27/93	3.61	0.02	K 0.05	K 0.20		8.40		0.22	444	22
08/10/93	3.00	0.03	K 0.05	0.50		8.35		0.26	578	14
08/24/93	3.57	0.02	K 0.05	K 0.20		8.22		0.33	502	26
09/07/93	3.36	0.02	K 0.05	0.30		8.26		0.26	462	22
09/21/93	4.01	K 0.02	K 0.05	0.40		8.32		0.42	468	25
Average	3.261	0.031	0.051	0.314		8.267		0.274	437.4	68.4
Maximum	4.01	0.06	0.06	0.50		8.40		0.42	578	250
Minimum	1.99	K 0.02	K 0.05	K 0.20		8.10		0.12	264	14

Appendix Table A-4, continued.

STORET M05P01 RM 47.50

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/29/93	4200	12000	3200	4	K 0.2	50	K 30	K 10	10500	10	18	257		K 40	K 2	60	199
07/13/93	1600	11600	1200	K 2	K 0.2	66	K 30	K 10	4330	3	29	209		K 40	K 2	28	284
07/27/93	240	320	100	2	K 0.2	82	K 30	K 10	938	K 2	35	34		K 40	K 2	K 10	349
08/10/93	80	70	K 10	K 2	K 0.2	76	K 30	K 10	550	K 2	33	28		K 40	K 2	K 10	326
08/24/93	315	80	240	K 2	K 0.2	80	K 30	10	833	K 2	33	44		K 40	K 2	K 10	336
09/07/93	60	240	80	K 2	K 0.2	77	K 30	K 10	945	K 2	30	48		K 40	K 2	K 10	316
09/21/93				K 2	K 0.2	77	K 30	K 10	716	K 2	31	39		K 40	K 2	K 10	320
Average	1082.5	4051.7	805.0	2.2	K 0.20	72.5	K 30.0	10.0	2687.4	3.2	29.8	94.1		K 40.0	K2.0	19.7	304.2
Maximum	4200	12000	3200	4	K 0.2	82	K 30	10	10500	10	35	257		K 40	K 2	60	349
Minimum	60	70	K 10	K 2	K 0.2	50	K 30	K 10	550	K 2	18	28		K 40	K 2	K 10	199

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05S12 SITE LOCATION LITTLE MIAMI
RIVER MILE 43.76 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/14/93	23.3	7.6	7.69			K 1.0	K 5.0	15	28	489	
08/11/93	22.5	9.2				K 1.0	K 5.0	14	63		
08/25/93	25.9	6.8				K 1.0	K 5.0	14	76	814	
09/22/93	17.5	8.8				K 1.0	K 5.0	K 10	76	810	
Average	22.29	8.09	7.690			K 1.00	K 5.00	13.2	60.7	704.3	
Maximum	25.9	9.2	7.69			K 1.0	K 5.0	15	76	814	
Minimum	17.5	6.8	7.69			K 1.0	K 5.0	K 10	28	489	

STORET M05S12 RM 43.76

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/14/93	4.63	0.03	K 0.05	0.70				0.18	368	90
08/11/93	3.08	0.03	K 0.05	0.40		8.33		0.24	498	12
08/25/93	3.33	0.02	K 0.05	0.50		8.27		0.39	510	16
09/22/93	4.06	K 0.02	K 0.05	0.30		8.28		0.35	486	14
Average	3.774	0.025	K 0.050	0.475		8.290		0.290	465.5	33.0
Maximum	4.63	0.03	K 0.05	0.70		8.33		0.39	510	90
Minimum	3.08	K 0.02	K 0.05	0.30		8.27		0.18	368	12

Appendix Table A-4, continued.

STORET M05S12 RM 43.76

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/14/93				K 2	K 0.2	60	K 30	K 10	2000	3	24	96		K 40	K 2	21	249
08/11/93				K 2	K 0.2	72	K 30	K 10	475	K 2	34	27		K 40	K 2	K 10	320
08/25/93				K 2	K 0.2	81	K 30	K 10	635	K 2	32	35		K 40	K 2	K 10	334
09/22/93				K 2	K 0.2	75	K 30	K 10	635	K 2	K 30	34		K 40	K 2	K 10	311
Average				K 2.0	K 0.20	72.0	K 30.0	K 10.0	936.2	2.2	30.0	48.0		K 40.0	K 2.0	12.7	303.5
Maximum				K 2	K 0.2	81	K 30	K 10	2000	3	34	96		K 40	K 2	21	334
Minimum				K 2	K 0.2	60	K 30	K 10	475	K 2	24	27		K 40	K 2	K 10	249

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05P02 SITE LOCATION LITTLE MIAMI
RIVER MILE 38.66 S.R. 123

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	22.5	8.5	7.76			K 1.0	K 5.0	19	30	509	
07/14/93	23.0	7.9	7.70			K 1.0	5.0	22	28	479	
07/28/93	27.0	9.2	6.98			K 1.0	K 5.0	20	46	715	
08/11/93	23.5	9.6				K 1.0	K 5.0	17	60		
08/25/93	27.0	8.0				K 1.0	K 5.0	12	72	795	
09/08/93	21.0	8.4				K 1.0	K 5.0	17	64	697	
Average	24.00	8.59	7.480			K 1.00	5.00	17.8	50.0	639.0	
Maximum	27.0	9.6	7.76			K 1.0	5.0	22	72	795	
Minimum	21.0	7.9	6.98			K 1.0	K 5.0	12	28	479	

STORET M05P02 RM 38.66

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.66	0.05	K 0.05	0.30				0.20	330	65
07/14/93	4.30	0.03	K 0.05	0.40				0.16	360	94
07/28/93	3.66	K 0.02	K 0.05	K 0.20				0.21	448	18
08/11/93	3.00	0.03	K 0.05	0.30		8.39		0.29	492	10
08/25/93	3.32	0.02	K 0.05	0.50		8.38		0.32	510	16
09/08/93	3.19	0.02	K 0.05	0.50		8.36		0.33	463	23
Average	3.354	0.028	K 0.050	0.366		8.377		0.251	433.8	37.6
Maximum	4.30	0.05	K 0.05	0.50		8.39		0.33	510	94
Minimum	2.66	K 0.02	K 0.05	K 0.20		8.36		0.16	330	10

Appendix Table A-4, continued.

STORET M05P02 RM 38.66

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93				K 2	K 0.2	58	K 30	K 10	2890	K 2	24	97	K 0.20	K 40	K 2	12	244
07/14/93				2	K 0.2	61	K 30	K 10	2020	3	23	97		K 40	K 2	18	247
07/28/93				K 2	K 0.2	82	K 30	K 10	658	K 2	34	26		K 40	K 2	K 10	345
08/11/93				K 2	K 0.2	72	K 30	K 10	550	K 2	33	31		K 40	K 2	14	316
08/25/93				2	K 0.2	81	K 30	K 10	482	K 2	32	28		K 40	K 2	10	334
09/08/93				K 2	K 0.2	73	K 30	K 10	860	K 2	30	42		K 40	K 2	29	306
Average				2.0	K 0.20	71.1	K 30.0	K 10.0	1243.3	2.1	29.3	53.5	K 0.20	K 40.0	K2.0	15.5	298.6
Maximum				2	K 0.2	82	K 30	K 10	2890	3	34	97	K 0.20	K 40	K 2	29	345
Minimum				K 2	K 0.2	58	K 30	K 10	482	K 2	23	26	K 0.20	K 40	K 2	K 10	244

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE [illegible] #16 STUBBS MILL RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/14/93	23.0	7.8	7.78			K 1.0	5.0	17	26	446	
08/11/93	24.0	11.2				K 1.0	K 5.0	15	63		
08/25/93	27.0	8.0				K 1.0	K 5.0	K 10	71	787	
09/22/93	18.0	8.8				K 1.0	K 5.0	11	70	965	
Average	23.00	8.94	7.780			K 1.00	5.00	13.2	57.5	733.0	
Maximum	27.0	11.2	7.78			K 1.0	5.0	17	71	965	
Minimum	18.0	7.8	7.78			K 1.0	K 5.0	K 10	26	446	

STORET 610520 RM 35.98

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/14/93	3.96	0.04	K 0.05	0.40				0.15	342	91
08/11/93	2.84	0.03	K 0.05	K 0.20		8.48		0.61	486	15
08/25/93	3.06	0.02	K 0.05	0.50		8.40		0.30	512	16
09/22/93	3.68	K 0.02	K 0.05	0.30		8.37		0.32	480	10
Average	3.384	0.027	K 0.050	0.350		8.417		0.345	455.0	33.0
Maximum	3.96	0.04	K 0.05	0.50		8.48		0.61	512	91
Minimum	2.84	K 0.02	K 0.05	K 0.20		8.37		0.15	342	10

Appendix Table A-4, continued.

STORET 610520 RM 35.98

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/14/93				K 2	K 0.2	55	K 30	K 10	2080	K 2	22	104		K 40	K 2	15	228
08/11/93				K 2	K 0.2	70	K 30	K 10	444	K 2	33	27		K 40	K 2	K 10	311
08/25/93				K 2	K 0.2	79	K 30	K 10	610	K 2	32	31		K 40	K 2	11	329
09/22/93				K 2	K 0.2	80	K 30	K 10	688	K 2	31	34		K 40	K 2	32	327
Average				K 2.0	K 0.20	71.0	K 30.0	K 10.0	955.5	K 2.0	29.5	49.0		K 40.0	K 2.0	17.0	298.7
Maximum				K 2	K 0.2	80	K 30	K 10	2080	K 2	33	104		K 40	K 2	32	329
Minimum				K 2	K 0.2	55	K 30	K 10	444	K 2	22	27		K 40	K 2	K 10	228

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE 32.95 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	22.6	8.4	7.92			K 1.0	K 5.0	25	29	469	
07/14/93	25.0	8.2	8.31			K 1.0	K 5.0	19	26	468	
07/28/93	26.0		6.98			K 1.0	K 5.0	10	50	723	
08/11/93	23.0	9.8				K 1.0	K 5.0	14	61		
08/25/93	26.0	8.0				K 1.0	K 5.0	15	70	785	
09/08/93	21.0	9.0				2.0	K 5.0	20	60	668	
09/22/93	20.5	11.6				K 1.0	K 5.0	11	68	774	
Average	23.44	9.17	7.737			1.14	K 5.00	16.2	52.0	647.8	
Maximum	26.0	11.6	8.31			2.0	K 5.0	25	70	785	
Minimum	20.5	8.0	6.98			K 1.0	K 5.0	10	26	468	

STORET M05P03 RM 32.95

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.30	0.04	0.06	0.30				0.22	314	29
07/14/93	3.65	0.03	K 0.05	0.50				0.14	340	80
07/28/93	3.31	K 0.02	K 0.05	K 0.20				0.22	448	15
08/11/93	2.67	0.03	K 0.05	0.40		8.39		0.20	486	13
08/25/93	2.82	0.02	K 0.05	0.40		8.33		0.28	518	12
09/08/93	2.58	K 0.02	K 0.05	0.40		8.29		0.23	446	18
09/22/93	3.27	K 0.02	K 0.05	0.30		8.44		0.28	470	8
Average	2.942	0.025	0.051	0.357		8.363		0.224	431.7	25.0
Maximum	3.65	0.04	0.06	0.50		8.44		0.28	518	80
Minimum	2.30	K 0.02	K 0.05	K 0.20		8.29		0.14	314	8

Appendix Table A-4, continued.

STORET M05P03 RM 32.95

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	530	630	320	K 2	K 0.2	53	K 30	K 10	3320	2	21	121	K 0.20	K 40	K 2	24	219
07/14/93	1300	1300	1300	2	K 0.2	58	K 30	K 10	1830	2	21	103		K 40	K 2	K 10	231
07/28/93	120	120	80	K 2	K 0.2	82	K 30	K 10	534	K 2	33	24		K 40	K 2	K 10	341
08/11/93	130	40	K 10	K 2	K 0.2	75	K 30	K 10	376	K 2	33	25		K 40	K 2	K 10	323
08/25/93		70		K 2	K 0.2	82	K 30	K 10	518	K 2	30	32		K 40	K 2	K 10	328
09/08/93	90	100	70	K 2	K 0.2	75	K 30	K 10	692	K 2	28	36		K 40	K 2	15	303
09/22/93	50	60	15	K 2	K 0.2	78	K 30	K 10	380	K 2	29	21		K 40	K 2	K 10	314
Average	370.0	331.4	299.2	2.0	K 0.20	71.8	K 30.0	K 10.0	1092.8	2.0	27.8	51.7	K0.20	K 40.0	K2.0	12.7	294.1
Maximum	1300	1300	1300	2	K 0.2	82	K 30	K 10	3320	2	33	121	K 0.2	K 40	K 2	24	341
Minimum	50	40	K 10	K 2	K 0.2	53	K 30	K 10	376	K 2	21	21	K 0.2	K 40	K 2	K 10	219

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE [illegible] [illegible] LEBANON WWTP MIXING

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	23.4	6.9	8.02			K 1.0	K 5.0	21	39	533	5
07/14/93	23.0	7.4	7.00	0.10		K 1.0	5.0	30	34	489	K 5
07/28/93	25.0	7.2	6.99			K 1.0	K 5.0	K 10	102	933	K 5
08/10/93	22.0	7.2				K 1.0	K 5.0	17	130		K 5
08/25/93	25.0	5.4		0.05		1.0	K 5.0	10	117	1000	K 5
09/08/93	21.1	6.2		0.11		2.0	K 5.0	K 10	124	954	K 5
09/22/93	19.5	8.1		0.08		K 1.0	K 5.0	14	107	954	K 5
Average	22.71	6.91	7.337	0.085		1.14	5.00	16.0	93.2	810.5	K 5.0
Maximum	25.0	8.1	8.02	0.11		2.0	5.0	30	130	1000	K 5
Minimum	19.5	5.4	6.99	0.05		K 1.0	K 5.0	K 10	34	489	K 5

STORET M05S36 RM 32.10

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.10	0.04	0.08	0.20			K 10	0.27	342	51
07/14/93	3.49	0.04	K 0.05	0.50			K 10	0.19	358	79
07/28/93	2.67	0.02	0.26	0.50			32	0.62	599	20
08/10/93	2.14	0.08	0.89	1.20		8.13	K 10	0.72	648	21
08/25/93	2.33	0.06	0.76	2.50		8.16	K 10	1.79	624	29
09/08/93	2.40	0.06	1.52	1.80		7.90	K 10	1.23	582	32
09/22/93	2.90	0.03	0.18	0.70		8.24		0.35	570	17
Average	2.575	0.047	0.534	1.057		8.108	13.7	0.738	531.8	35.5
Maximum	3.49	0.08	1.52	2.50		8.24	32	1.79	648	79
Minimum	2.10	0.02	K 0.05	0.20		7.90	K 10	0.19	342	17

Appendix Table A-4, continued.

STORET M05S36 RM 32.10

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93				K 2	K 0.2	56	K 30	K 10	2220	K 2	21	85	K 0.20	K 40	K 2	78	226
07/14/93				3	K 0.2	57	K 30	K 10	1960	K 2	22	106		K 40	K 2	13	233
07/28/93	10400	840	7400	K 2	K 0.2	86	K 30	K 10	986	K 2	33	53	K 0.20	K 40	K 2	10	351
08/10/93	60	100	K 10	K 2	K 0.2	89	K 30	K 10	1380	K 2	33	94	K 0.20	K 40	K 2	15	358
08/25/93		590		K 2	0.3	93	K 30	15	2090	3	31	90	K 0.20	K 40	K 2	75	360
09/08/93	27000	340	15000	K 2	K 0.2	79	K 30	K 10	1330	K 2	29	83	K 0.20	K 40	K 2	23	317
09/22/93	30000	2800	23000	K 2	K 0.2	85	K 30	K 10	1070	K 2	30	73	K 0.20	K 40	K 2	14	336
Average	16865.0	934	11352.5	2.1	0.21	77.8	K 30.0	10.7	1576.5	2.1	28.4	83.4	K0.20	K 40.0	K2.0	32.5	311.5
Maximum	30000	2800	23000	3	0.3	93	K 30	15	2220	3	33	106	K 0.2	K 40	K 2	78	360
Minimum	60	100	K 10	K 2	K 0.2	56	K 30	K 10	986	K 2	21	53	K 0.2	K 40	K 2	10	226

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05W15 SITE LOCATION LITTLE MIAMI
RIVER MILE 31.96 #22 DST LEBANON WWTP

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	23.0	7.1	8.21			K 1.0	K 5.0	28	43	545	
07/14/93	23.5	7.8	8.29			K 1.0	5.0	11	34	483	
07/28/93	26.0	7.4	6.98			K 1.0	K 5.0	K 10	62	786	
08/10/93	22.0	7.8				K 1.0	K 5.0	16	85		
08/25/93	25.5	6.2				K 1.0	K 5.0	13	80	833	
09/08/93	20.9	7.2				1.0	K 5.0	30	75	735	
09/22/93	19.5	10.0				K 1.0	K 5.0	20	90	854	
Average	22.91	7.64	7.827			1.00	5.00	18.2	67.0	706.0	
Maximum	26.0	10.0	8.29			1.0	5.0	30	90	854	
Minimum	19.5	6.2	6.98			K 1.0	K 5.0	K 10	34	483	

STORET M05W15 RM 31.96

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.22	0.04	0.08	0.40				0.32	354	42
07/14/93	3.56	0.03	K 0.05	0.40				0.18	364	87
07/28/93	3.29	K 0.02	K 0.05	0.20				0.28	486	20
08/10/93	2.56	0.04	0.29	0.50		8.25		0.36	542	20
08/25/93	2.72	0.03	0.17	0.60		8.19		0.41	534	24
09/08/93	2.59	0.03	0.79	1.10		8.20		0.78	470	36
09/22/93	3.12	0.02	0.11	0.60		8.31		0.30	520	14
Average	2.865	0.030	0.220	0.542		8.238		0.375	467.1	34.7
Maximum	3.56	0.04	0.79	1.10		8.31		0.78	542	87
Minimum	2.22	K 0.02	K 0.05	0.20		8.19		0.18	354	14

Appendix Table A-4, continued.

STORET M05W15 RM 31.96

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	300	220	240	K 2	K 0.2	57	K 30	K 10	1740	2	22	74	K 0.20	K 40	K 2	20	233
07/14/93	2800	2300	1000	K 2	K 0.2	62	K 30	K 10	2110	3	22	115		K 40	K 2	K 10	245
07/28/93	2700	240	1300	K 2	K 0.2	84	K 30	K 10	779	K 2	33	37		K 40	K 2	K 10	346
08/10/93	140	30	K 10	K 2	K 0.2	78	K 30	K 10	734	K 2	33	49		K 40	K 2	K 10	331
08/25/93		140		K 2	K 0.2	80	K 30	K 10	900	K 2	31	49		K 40	K 2	10	327
09/08/93	7180	680	3400	K 2	K 0.2	76	K 30	K 10	1300	K 2	29	69		K 40	K 2	29	309
09/22/93	4550	980	9270	K 2	K 0.2	82	K 30	K 10	622	K 2	30	46		K 40	K 2	11	328
Average	2945.0	655.7	2536.7	K 2.0	K 0.20	74.1	K 30.0	K 10.0	1169.2	2.1	28.5	62.7	K0.20	K 40.0	K2.0	14.2	302.7
Maximum	7180	2300	9270	K 2	K 0.2	84	K 30	K 10	2110	3	33	115	K 0.2	K 40	K 2	29	346
Minimum	140	30	K 10	K 2	K 0.2	57	K 30	K 10	622	K 2	22	37	K 0.2	K 40	K 2	K 10	233

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE [illegible]
RIVER MILE 30.72 [illegible] BRANDON RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	23.5	7.5	8.18			K 1.0	K 5.0	22	31	481	
07/14/93	24.5	7.2				2.0	K 5.0	13	28	456	
07/28/93	27.5	8.9	8.06			K 1.0	K 5.0	K 10	56	744	
08/11/93	23.5	8.9	8.35			K 1.0	K 5.0	20	73		
08/25/93	27.0	7.9	8.12			K 1.0	K 5.0	17	81	836	
09/08/93	22.0	8.3	8.14			K 1.0	K 5.0	K 10	69	685	
09/22/93	19.4	10.1	8.33			1.0	K 5.0	21	84	838	
Average	23.91	8.39	8.197			1.14	K 5.00	16.1	60.2	673.3	
Maximum	27.5	10.1	8.35			2.0	K 5.0	22	84	838	
Minimum	19.4	7.2	8.06			K 1.0	K 5.0	K 10	28	456	

STORET M05S09 RM 30.72

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.22	0.04	0.05	0.20				0.22	314	41
07/14/93	3.87	0.02	K 0.05	0.40		8.27		0.15	332	75
07/28/93	3.37	K 0.02	K 0.05	K 0.20				0.22	492	18
08/11/93	2.75	0.03	K 0.05	0.30				0.32	512	14
08/25/93	2.81	0.02	0.08	0.60				0.34	544	18
09/08/93	2.83	0.02	0.17	0.60				0.42	450	28
09/22/93	3.34	K 0.02	K 0.05	0.40				0.28	498	14
Average	3.027	0.024	0.071	0.385		8.270		0.278	448.8	29.7
Maximum	3.87	0.04	0.17	0.60		8.27		0.42	544	75
Minimum	2.22	K 0.02	K 0.05	K 0.20		8.27		0.15	314	14

Appendix Table A-4, continued.

STORET M05S09 RM 30.72

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93				K 2	K 0.2	53	K 30	K 10	2000	K 2	21	74	K 0.20	K 40	K 2	87	219
07/14/93				K 2	K 0.2	58	K 30	K 10	1920	2	22	103		K 40	K 2	15	235
07/28/93				K 2	K 0.2	82	K 30	K 10	656	K 2	34	26		K 40	K 2	K 10	345
08/11/93				K 2	K 0.2	74	K 30	K 10	735	K 2	32	36		K 40	K 2	K 10	317
08/25/93				3	K 0.2	81	K 30	K 10	740	K 2	32	44		K 40	K 2	13	334
09/08/93				K 2	K 0.2	74	K 30	K 10	953	K 2	29	53		K 40	K 2	K 10	304
09/22/93				K 2	K 0.2	80	K 30	K 10	582	K 2	31	36		K 40	K 2	28	327
Average				2.1	K 0.20	71.7	K 30.0	K 10.0	1083.7	2.0	28.7	53.1	K0.20	K 40.0	K2.0	24.7	297.2
Maximum				3	K 0.2	82	K 30	K 10	2000	2	34	103	K 0.2	K 40	K 2	87	345
Minimum				K 2	K 0.2	53	K 30	K 10	582	K 2	21	26	K 0.2	K 40	K 2	K 10	219

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M01S41 SITE LOCATION LITTLE MIAMI
RIVER MILE 29.46 #24 DST KINGS MILL

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	22.9	7.0	8.12			K 1.0	K 5.0	20	31	460	
07/14/93	24.0	7.1				K 1.0	K 5.0	14	28	456	
07/28/93	27.7	8.0	8.09			K 1.0	K 5.0	15	54	747	
08/11/93	23.8	7.6	8.20			K 1.0	K 5.0	13	71		
08/25/93	27.3	6.6	8.08			K 1.0	K 5.0	12	78	823	
09/08/93	21.9	7.4	8.04			1.0	K 5.0	K 10	68	689	
09/22/93	19.7	9.2	8.34			K 1.0	K 5.0	15	81	809	
Average	23.89	7.55	8.145			K 1.00	K 5.00	14.1	58.7	664.0	
Maximum	27.7	9.2	8.34			1.0	K 5.0	20	81	823	
Minimum	19.7	6.6	8.04			K 1.0	K 5.0	K 10	28	456	

STORET M01S41 RM 29.46

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.13	0.04	K 0.05	0.50				0.22	278	39
07/14/93	3.67	0.03	K 0.05	0.40		8.25		0.13	336	81
07/28/93	3.42	K 0.02	K 0.05	0.40				0.27	498	30
08/11/93	2.68	0.06	K 0.05	0.30				0.23	500	20
08/25/93	2.76	0.03	0.06	0.50				0.30	518	16
09/08/93	2.65	0.02	0.12	0.60				0.37	452	31
09/22/93	3.28	0.02	K 0.05	0.40				0.28	490	26
Average	2.941	0.031	0.061	0.442		8.250		0.257	438.8	34.7
Maximum	3.67	0.06	0.12	0.60		8.25		0.37	518	81
Minimum	2.13	K 0.02	K 0.05	0.30		8.25		0.13	278	16

Appendix Table A-4, continued.

STORET M01S41 RM 29.46

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93				K 2	K 0.2	51	K 30	K 10	832	6	20	62	K 0.20	K 40	K 2	K 10	210
07/14/93				K 2	K 0.2	56	K 30	K 10	1920	2	22	97		K 40	K 2	14	230
07/28/93				K 2	K 0.2	83	K 30	K 10	839	K 2	34	34		K 40	K 2	K 10	347
08/11/93				K 2	K 0.2	77	K 30	K 10	847	K 2	32	46		K 40	K 2	10	324
08/25/93				3	K 0.2	80	K 30	K 10	867	K 2	32	49		K 40	K 2	12	332
09/08/93				K 2	K 0.2	75	K 30	K 10	1430	K 2	28	81		K 40	K 2	11	303
09/22/93				K 2	K 0.2	79	K 30	K 10	818	K 2	30	47		K 40	K 2	20	321
Average				2.1	K 0.20	71.5	K 30.0	K 10.0	1079.0	2.5	28.2	59.4	K0.20	K 40.0	K2.0	12.4	295.2
Maximum				3	K 0.2	83	K 30	K 10	1920	6	34	97	K 0.2	K 40	K 2	20	347
Minimum				K 2	K 0.2	51	K 30	K 10	818	K 2	20	34	K 0.2	K 40	K 2	K 10	210

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE 28.00 [illegible] DST SIMPSON CREEK

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	21.3	7.3	8.10	0.09		K 1.0	K 5.0	23	41	503	K 5
07/14/93	24.3	7.4				3.0	5.0	23	46	495	K 5
07/28/93	27.9	7.5	8.01	0.12		K 1.0	K 5.0	K 10	83	839	K 5
08/11/93	24.9	7.6	8.10	0.09		K 1.0	K 5.0	16	91		K 5
08/25/93	28.1	7.1	8.06	0.07		K 1.0	K 5.0	15	80	827	K 5
09/08/93	22.9	7.9	7.93	0.11		K 1.0	K 5.0	K 10	77	690	K 5
09/22/93	20.3	9.4	8.43	0.05		K 1.0	K 5.0	14	133	1010	K 5
Average	24.24	7.74	8.105	0.088		1.28	5.00	15.8	78.7	727.3	K 5.0
Maximum	28.1	9.4	8.43	0.12		3.0	5.0	23	133	1010	K 5
Minimum	20.3	7.1	7.93	0.05		K 1.0	K 5.0	K 10	41	495	K 5

STORET M05S07 RM 28.00

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.33	0.05	K 0.05	0.50			K 10	0.22	302	43
07/14/93	2.26	0.03	K 0.05	0.80		8.39	K 10	0.26	330	79
07/28/93	3.71	K 0.02	K 0.05	0.20			K 10	0.26	562	16
08/11/93	2.58	0.02	K 0.05	0.40			10	0.22	548	14
08/25/93	2.84	0.03	K 0.05	0.50			K 10	0.32	520	16
09/08/93	2.52	0.02	0.13	0.30			K 10	2.63	468	24
09/22/93	3.73	0.02	K 0.05	0.50			K 10	0.41		16
Average	2.852	0.027	0.061	0.457		8.390	10	0.617	455.0	29.7
Maximum	3.73	0.05	0.13	0.80		8.39	10	2.63	562	79
Minimum	2.26	K 0.02	K 0.05	0.20		8.39	K 10	0.22	302	14

Appendix Table A-4, continued.

STORET M05S07 RM 28.00

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	530	600	480	K 2	K 0.2	50	K 30		2160	K 2	19	63	K 0.20	K 40	K 2	16	203
07/14/93	2800	3900	1700	2	K 0.2	55	K 30	K 10	2240	K 2	20	119		K 40	K 2	19	220
07/28/93	150	40	85	K 2	K 0.2	82	K 30	K 10	806	K 2	33	28	K 0.20	K 40	K 2	K 10	341
08/11/93	60	10	K 10	K 2	K 0.2	77	K 30	K 10	685	K 2	33	31	K 0.20	K 40	K 2	K 10	328
08/25/93		K 10		K 2	K 0.2	80	K 30	K 10	732	K 2	32	39	K 0.20	K 40	K 2	14	332
09/08/93	649	60	50	K 2	K 0.2	71	K 30	K 10	1140	K 2	27	58	K 0.20	K 40	K 2	11	288
09/22/93	440	80	K 10	K 2	K 0.2	81	K 30	K 10	949	K 2	30	68	1.80	K 40	K 2	27	326
Average	771.5	671.4	389.2	2.0	K 0.20	70.8	K 30.0	K 10.0	1244.5	K 2.0	27.7	58.0	0.467	K 40.0	K 2.0	15.2	291.1
Maximum	2800	3900	1700	2	K 0.2	82	K 30	K 10	2240	K 2	33	119	1.80	K 40	K 2	27	341
Minimum	60	K 10	K 10	K 2	K 0.2	50	K 30	K 10	685	K 2	19	28	K 0.20	K 40	K 2	K 10	203

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05W34 SITE LOCATION LITTLE MIAMI
RIVER MILE 24.10 #27 UPST CRANNON CREEK

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/14/93	23.5	7.3				K 1.0	K 5.0	14	26	416	
08/11/93	23.3	8.2	8.13			K 1.0	K 5.0	11	80		
08/25/93	27.0	7.8	8.13			K 1.0	K 5.0	21	92	864	
09/22/93	21.9	9.8	8.44			K 1.0	K 5.0	15	93	866	
Average	23.92	8.27	8.233			K 1.00	K 5.00	15.2	72.7	715.3	
Maximum	27.0	9.8	8.44			K 1.0	K 5.0	21	93	866	
Minimum	21.9	7.3	8.13			K 1.0	K 5.0	11	26	416	

STORET M05W34 RM 24.10

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/14/93	3.05	0.06	K 0.05	0.40		8.18		0.42	310	180
08/11/93	2.55	0.02	K 0.05	0.20				0.41	518	22
08/25/93	2.68	0.02	K 0.05	0.60				0.33	538	25
09/22/93	3.12	K 0.02	K 0.05	0.30				0.28	516	16
Average	2.849	0.030	K 0.050	0.375		8.180		0.360	470.5	60.7
Maximum	3.12	0.06	K 0.05	0.60		8.18		0.42	538	180
Minimum	2.55	K 0.02	K 0.05	0.20		8.18		0.28	310	16

Appendix Table A-4, continued.

STORET M05W34 RM 24.10

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/14/93				K 2	K 0.2	53	K 30	K 10	4710	5	19	222		K 40	K 2	35	211
08/11/93				K 2	K 0.2	76	K 30	K 10	810	K 2	32	39		K 40	K 2	K 10	322
08/25/93				2	K 0.2	79	K 30	K 10	893	K 2	32	45		K 40	K 2	K 10	329
09/22/93				K 2	K 0.2	80	K 30	K 10	728	K 2	30	37		K 40	K 2	K 10	323
Average				2.0	K 0.20	72.0	K 30.0	K 10.0	1785.2	2.7	28.2	85.7		K 40.0	K2.0	16.2	296.2
Maximum				2	K 0.2	80	K 30	K 10	4710	5	32	222		K 40	K 2	35	329
Minimum				K 2	K 0.2	53	K 30	K 10	728	K 2	19	37		K 40	K 2	K 10	211

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE 22.20 [illegible]

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	21.8	8.2	8.10			K 1.0	K 5.0	18	105	849	K 5
07/14/93	22.9	7.5	7.82	0.23		1.0	K 5.0	12	28	429	K 5
07/28/93	21.0	8.1	8.02	0.04		22.7	K 5.0	K 10	337	1550	K 5
08/11/93	24.4	8.3	8.14	0.08		K 1.0	K 5.0	21	88		K 5
08/25/93	22.4	8.2	7.80	0.09		K 1.0	K 5.0	15	101	890	K 5
09/08/93	20.8	8.7	7.58	0.03		53.0	30.0	65	197	1160	12
09/22/93	21.0	9.0	7.97	0.11		K 1.0	K 5.0	13	97	963	K 5
Average	22.04	8.28	7.918	0.097		11.52	8.57	22.0	136.1	973.5	6.0
Maximum	24.4	9.0	8.14	0.23		53.0	30.0	65	337	1550	12
Minimum	20.8	7.5	7.58	0.03		K 1.0	K 5.0	K 10	28	429	K 5

STORET M05S35 RM 22.20

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.42	0.03	0.05	0.30			K 10	0.45	518	18
07/14/93	3.02	0.05	K 0.05	0.40			K 10	0.22	318	148
07/28/93	3.09	K 0.02	K 0.05	0.30			17	0.46	1040	20
08/11/93	2.76	0.02	K 0.05	0.30			K 10	0.38	534	16
08/25/93	2.64	0.02	0.05	0.60			K 10	0.33	550	8
09/08/93	2.76	0.03	0.41	4.00			61	2.77	790	13
09/22/93	2.76	K 0.02	K 0.05	0.30			K 10	0.48	562	K 5
Average	2.778	0.027	0.101	0.885			18	0.727	616.0	32.5
Maximum	3.09	0.05	0.41	4.00			61	2.77	1040	148
Minimum	2.42	K 0.02	K 0.05	0.30			K 10	0.22	318	K 5

Appendix Table A-4, continued.

STORET M05S35 RM 22.20

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93				K 2	K 0.2	82	K 30	K 10	2050	K 2	25	77	K 0.20	K 40	K 2	32	308
07/14/93	365	9900	5500	2	K 0.2	56	K 30	K 10	4080	4	20	211		K 40	K 2	41	222
07/28/93				K 2	K 0.2	97	K 30	K 10	456	K 2	28	23	K 0.20	K 40	K 2	93	358
08/11/93	60	60	K 10	K 2	K 0.2	78	K 30	K 10	599	K 2	32	34	K 0.20	K 40	K 2	13	327
08/25/93		370		K 2	K 0.2	77	K 30	K 10	475	K 2	29	31	K 0.20	K 40	K 2	54	312
09/08/93	180	90	60	K 2	K 0.2	77	K 30	K 10	662	K 2	25	37	K 0.20	K 40	K 2	1010	295
09/22/93				K 2	K 0.2	99	K 30	K 10	K 50	K 2	27	K 10	K 0.20	K 40	K 2	50	358
Average	201.7	2605.0	1856.7	2.0	K 0.20	80.8	K 30.0	K 10.0	1196.0	2.2	26.5	60.4	K 0.20	K 40.0	K 2.0	184.7	311.4
Maximum	365	9900	5500	2	K 0.2	99	K 30	K 10	4080	4	32	211	K 0.20	K 40	K 2	1010	358
Minimum	60	60	K 10	K 2	K 0.2	56	K 30	K 10	K 50	K 2	20	K 10	K 0.20	K 40	K 2	13	222

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE 21.45 #20 BRANCH HILL QUINCY RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	23.0	7.7	7.99			K 1.0	K 5.0	23	39	560	
07/14/93	23.0	7.8	7.71			K 1.0	K 5.0	19	26	399	
07/28/93	28.0	8.5	8.04			K 1.0			59	735	
08/11/93	23.7	8.5	8.14			K 1.0	K 5.0	18	83		
08/25/93	26.4	7.6	8.01			K 1.0	K 5.0	16	89	838	
09/08/93	22.0	8.4	8.02			1.0	K 5.0	K 10	76	655	
09/22/93	19.0	8.8	8.29			K 1.0	K 5.0	12	100	873	
Average	23.58	8.18	8.028			1.00	K 5.00	16.3	67.4	676.7	
Maximum	28.0	8.8	8.29			1.0	K 5.0	23	100	873	
Minimum	19.0	7.6	7.71			K 1.0	K 5.0	K 10	26	399	

STORET 600540 RM 21.45

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.39	0.03	0.05	0.20				0.28	178	28
07/14/93	2.88	0.05	K 0.05	0.30				0.24	294	188
07/28/93		K 0.02							504	32
08/11/93	2.85	0.02	K 0.05	0.30				0.34	504	23
08/25/93	2.84	0.03	K 0.05	0.60				0.44	538	44
09/08/93	2.67	0.02	K 0.05	0.50				0.45	426	36
09/22/93	3.73	K 0.02	K 0.05	0.40				0.45	532	22
Average	2.893	0.027	0.05	0.383				0.367	425.1	53.2
Maximum	3.73	0.05	0.05	0.60				0.45	538	188
Minimum	2.39	K 0.02	K 0.05	0.20				0.24	178	22

Appendix Table A-4, continued.

STORET 600540 RM 21.45

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	340	250	330	3	K 0.2	63	K 30	K 10	1890	K 2	23	76	K 0.20	K 40	K 2	28	252
07/14/93	39000	29000	7100	3	K 0.2	49	K 30	11	4160	9	19	220		K 40	K 2	37	201
07/28/93	120	60	110	K 2	K 0.2	84	K 30	K 10	945	2	33	42	K 0.20	K 40	K 2	13	346
08/11/93	80	80	K 10	K 2	K 0.2	80	K 30	K 10	911	K 2	32	42	K 0.20	K 40	K 2	16	332
08/25/93		680		2	K 0.2	74	K 30	K 10	1660	K 2	29	66	K 0.20	K 40	K 2	27	304
09/08/93	180	80	20	K 2	K 0.2	64	K 30	K 10	1560	2	23	65	K 0.20	K 40	K 2	14	255
09/22/93	240	40	130	K 2	K 0.2	77	K 30	K 10	796	K 2	29	38	K 0.20	K 40	K 2	25	312
Average	6660.0	4312.8	1283.3	2.2	K 0.20	70.1	K 30.0	10.1	1703.1	3.0	26.8	78.4	K 0.20	K 40.0	K2.0	22.8	286.0
Maximum	39000	29000	7100	3	K 0.2	84	K 30	11	4160	9	33	220	K 0.20	K 40	K 2	37	346
Minimum	80	40	K 10	K 2	K 0.2	49	K 30	K 10	796	K 2	19	38	K 0.20	K 40	K 2	13	201

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE 20.60 #50 LAKE ISABELLA ACCESS

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	22.9	7.0	7.91			K 1.0	K 5.0	26	41	573	
07/14/93	23.2	7.3	7.61			1.3	K 5.0	30	26	400	
07/28/93	27.5	8.0	8.00			K 1.0	K 5.0	K 10	59	751	
08/11/93	23.3	6.8	7.97			K 1.0	K 5.0	16	78		
08/25/93	26.0	6.5	7.99			K 1.0	K 5.0	13	83	794	
09/08/93	21.7	8.0	7.95			1.0	K 5.0	K 10	73	644	
09/22/93	18.6	8.5	8.23			K 1.0	K 5.0	10	97	855	
Average	23.31	7.44	7.951			1.04	K 5.00	16.4	65.2	669.5	
Maximum	27.5	8.5	8.23			1.3	K 5.0	30	97	855	
Minimum	18.6	6.5	7.61			K 1.0	K 5.0	K 10	26	400	

STORET M05S05 RM 20.60

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.37	0.03	K 0.05	0.30				0.31	368	47
07/14/93	2.93	0.06	K 0.05	0.50				0.24	294	230
07/28/93	3.49	K 0.02	K 0.05	0.60				0.31	500	32
08/11/93	2.67	0.02	K 0.05	0.30				0.27	513	22
08/25/93	2.53	0.03	K 0.05	0.60				0.34	512	51
09/08/93	2.50	0.02	K 0.05	0.40				0.42	420	40
09/22/93	3.36	K 0.02	K 0.05	0.30				0.34	522	24
Average	2.835	0.028	K 0.050	0.428				0.318	447.0	63.7
Maximum	3.49	0.06	K 0.05	0.60				0.42	522	230
Minimum	2.37	K 0.02	K 0.05	0.30				0.24	294	22

Appendix Table A-4, continued.

STORET M05S05 RM 20.60

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93				K 2	K 0.2	63	K 30	K 10	1730	K 2	24	75	K 0.20	K 40	K 2	11	256
07/14/93				3	K 0.2	49	K 30	13	4520	5	18	226		K 40	K 2	30	196
07/28/93				K 2	K 0.2	84	K 30	K 10	848	K 2	32	40		K 40	K 2	20	342
08/11/93				K 2	K 0.2	78	K 30	K 10	911	K 2	33	53		K 40	K 2	K 10	331
08/25/93				K 2	K 0.2	72	K 30	K 10	1970	K 2	28	84		K 40	K 2	20	295
09/08/93				K 2	K 0.2	63	K 30	K 10	1600	K 2	23	73		K 40	K 2	21	252
09/22/93				K 2	K 0.2	78	K 30	K 10	1060	K 2	30	55		K 40	K 2	10	318
Average				2.1	K 0.20	69.5	K 30.0	10.4	1805.5	2.4	26.8	86.5	K 0.20	K 40.0	K2.0	17.4	284.2
Maximum				3	K 0.2	84	K 30	13	4520	5	33	226	K 0.20	K 40	K 2	30	342
Minimum				K 2	K 0.2	49	K 30	K 10	848	K 2	18	40	K 0.20	K 40	K 2	K 10	196

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05P10 SITE LOCATION LITTLE MIAMI
RIVER MILE 18.14 @ CARRAGO RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
06/30/93	23.0	6.7	7.93			K 1.0	K 5.0	22	46	619	
07/14/93	23.0	7.1	7.88			1.4	5.0	17	24	346	
07/28/93	26.0	6.8	7.95				K 5.0	K 10	K 10		
08/11/93	23.5	7.1	7.90			K 1.0	K 5.0	14	82		
08/25/93	26.2	6.5	7.90			K 1.0	K 5.0	15	82	763	
09/08/93	22.5	7.4	7.50			1.0	5.0	K 10	77	652	
09/22/93	18.0	7.9	7.31			K 1.0	K 5.0	13	95	849	
Average	23.17	7.07	7.767			1.07	5.01	14.4	59.4	645.8	
Maximum	26.2	7.9	7.95			1.4	5.0	22	95	849	
Minimum	18.0	6.5	7.31			K 1.0	K 5.0	K 10	K 10	346	

STORET M05P10 RM 18.14

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
06/30/93	2.78	0.03	K 0.05	0.50				0.26	378	33
07/14/93	2.51	0.08	0.07	0.70				0.48	268	378
07/28/93	3.45		K 0.05	0.20				0.34		
08/11/93	2.61	0.02	K 0.05	0.30				0.47	522	32
08/25/93	2.31	0.04	0.05	0.70				0.39	480	46
09/08/93	2.34	0.02	K 0.05	0.40				0.66	422	50
09/22/93	3.37	K 0.02	K 0.05	0.40				0.48	519	26
Average	2.767	0.035	0.052	0.457				0.440	431.5	94.2
Maximum	3.45	0.08	0.07	0.70				0.66	522	378
Minimum	2.31	K 0.02	K 0.05	0.20				0.26	268	26

Appendix Table A-4, continued.

STORET M05P10 RM 18.14

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
06/30/93	622	850	510	K 2	K 0.2	65	K 30	K 10	1410	3	25	70	K 0.20	K 40	K 2	48	265
07/14/93	29000	58000	L 80000	2	K 0.2	52	K 30	14	20900	15	18	617		K 40	K 2	90	204
07/28/93	280	200	180	K 2	K 0.2	82	K 30	K 10	1040	K 2	32	48		K 40	K 2	12	337
08/11/93	150	310	K 10	K 2	K 0.2	77	K 30	K 10	1110	2	31	58		K 40	K 2	22	320
08/25/93		4900		K 2	K 0.2	68	K 30	K 10	2110	K 2	26	93		K 40	K 2	35	277
09/08/93	1300	150	510	K 2	K 0.2	63	K 30	K 10	2630	K 2	23	100		K 40	K 2	K 10	252
09/22/93	360	70	390	K 2	K 0.2	77	K 30	K 10	1080	K 2	28	57		K 40	K 2	43	308
Average	5285.3	9211.4	13600.0	2.0	K 0.20	69.1	K 30.0	10.5	4325.7	4.0	26.1	149.0	K 0.20	K 40.0	K2.0	37.1	280.4
Maximum	29000	58000	L 80000	2	K 0.2	82	K 30	14	20900	15	32	617	K 0.20	K 40	K 2	90	337
Minimum	150	70	K 10	K 2	K 0.2	52	K 30	K 10	1040	K 2	18	48	K 0.20	K 40	K 2	K 10	204

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE MIAMI
RIVER MILE 13.07 #32 WOOSTER PIKE

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	23.6	7.5	8.05		316.1	K 1.0	K 5.0	38	48	559	
07/15/93	25.0	7.0			3084.0	1.4	12.0	38	16	339	
07/29/93	28.0	8.4	8.24		221.5	K 1.0	K 5.0	10	60	732	
08/12/93	24.4	7.2	8.00			K 1.0	K 5.0	14	83	834	
08/26/93	27.5	7.3	8.10		1074.0	K 1.0	K 5.0	17	77	738	
09/09/93	22.3	8.3	8.13		120.7	K 1.0	K 5.0	K 10	80	677	
Average	25.13	7.61	8.104		963.26	1.06	6.16	21.1	60.6	646.5	
Maximum	28.0	8.4	8.24		3084.0	1.4	12.0	38	83	834	
Minimum	22.3	7.0	8.00		120.7	K 1.0	K 5.0	K 10	16	339	

STORET M05P11 RM 13.07

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	2.31	0.03	K 0.05	K 0.20				0.28	364	26
07/15/93	3.01	0.08	K 0.05	0.90		8.08		0.56	256	642
07/29/93	3.29	K 0.02	K 0.05	0.30				0.25	498	36
08/12/93	2.38	0.03	K 0.05	0.30				0.36	516	22
08/26/93	2.25	0.03	K 0.05	0.70				0.41	454	36
09/09/93	2.19	0.02	K 0.05	0.40				0.46	394	130
Average	2.571	0.035	K 0.050	0.466		8.080		0.386	413.6	148.6
Maximum	3.29	0.08	K 0.05	0.90		8.08		0.56	516	642
Minimum	2.19	K 0.02	K 0.05	K 0.20		8.08		0.25	256	22

Appendix Table A-4, continued.

STORET M05P11 RM 13.07

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93				2	K 0.2	56	K 30	K 10	1640	K 2	18	67	K 0.20	K 40	K 2	12	214
07/15/93				3	K 0.2	49	K 30	K 10	15700	14	18	516		K 40	K 2	72	196
07/29/93				2	K 0.2	82	K 30	K 10	1070	K 2	34	53		K 40	K 2	K 10	345
08/12/93				K 2	K 0.2	79	K 30	K 10	759	K 2	33	56		K 40	K 2	K 10	333
08/26/93				K 2	K 0.2	67	K 30	K 10	1440	K 2	25	76		K 40	K 2	31	270
09/09/93				K 2	K 0.2	63	K 30	K 10	1460	K 2	23	67		K 40	K 2	K 10	252
Average				2.1	K 0.20	66.0	K 30.0	K 10.0	3678.1	4.0	25.1	139.1	K 0.20	K 40.0	K2.0	24.1	268.3
Maximum				3	K 0.2	82	K 30	K 10	15700	14	34	516	K 0.20	K 40	K 2	72	345
Minimum				K 2	K 0.2	49	K 30	K 10	759	K 2	18	53	K 0.20	K 40	K 2	K 10	196

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE [illegible]
RIVER MILE 8.14 [illegible] NEWTOWN RD

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	23.9	7.4	8.00			K 1.0	K 5.0	15	42	764	
07/15/93	24.5	7.2				1.1	11.0	34	20	467	
07/29/93	27.1	8.3	8.31			1.3	K 5.0	10	61	730	
08/12/93	24.0	6.7	8.09			K 1.0	K 5.0	15	78	780	
08/26/93	27.3	6.5	7.87			K 1.0	K 5.0	K 10	66	645	
09/09/93	22.0	7.4	8.01			1.0	K 5.0	10	69	615	
Average	24.80	7.25	8.056			1.06	6.00	15.6	56.0	666.8	
Maximum	27.3	8.3	8.31			1.3	11.0	34	78	780	
Minimum	22.0	6.5	7.87			K 1.0	K 5.0	K 10	20	467	

STORET M05P12 RM 8.14

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	2.38	0.03	K 0.05	K 0.20				0.29	378	42
07/15/93	3.24	0.04	K 0.05	0.70		8.18		0.45	280	270
07/29/93	2.87	K 0.02	K 0.05	0.50				0.28	482	42
08/12/93	2.45	0.03	K 0.05	0.20				0.37	480	29
08/26/93	1.85	0.03	K 0.05	0.50				0.31	398	22
09/09/93	1.93	0.02	K 0.05	0.20				0.51	358	28
Average	2.453	0.028	K 0.050	0.383		8.180		0.368	396.0	72.1
Maximum	3.24	0.04	K 0.05	0.70		8.18		0.51	482	270
Minimum	1.85	K 0.02	K 0.05	K 0.20		8.18		0.28	280	22

Appendix Table A-4, continued.

STORET M05P12 RM 8.14

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93	395	385	370	2	K 0.2	65	K 30	K 10	1550	K 2	20	100	K 0.20	K 40	K 2	K 10	245
07/15/93	3000	9600	4700	K 2	K 0.2	55	K 30	K 10	10200	10	20	350		K 40	K 2	41	220
07/29/93	200	80	230	K 2	K 0.2	79	K 30	K 10	1400	K 2	30	97		K 40	K 2	19	321
08/12/93	2500	230	2000	K 2	K 0.2	76	K 30	K 10	883	K 2	29	79		K 40	K 2	14	309
08/26/93	170	240	10	K 2	K 0.2	63	K 30	K 10	1330	K 2	20	67		K 40	K 2	12	240
09/09/93	90	70	110	K 2	K 0.2	60	K 30	K 10	1190	2	19	75		K 40	K 2	20	228
Average	1059.1	1767.5	1236.6	2.0	K 0.20	66.3	K 30.0	K 10.0	2758.8	3.3	23.0	128.0	K 0.20	K 40.0	K2.0	19.3	260.5
Maximum	3000	9600	4700	2	K 0.2	79	K 30	K 10	10200	10	30	350	K 0.20	K 40	K 2	41	321
Minimum	90	70	10	K 2	K 0.2	55	K 30	K 10	883	K 2	19	67	K 0.20	K 40	K 2	K 10	220

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET [illegible] SITE LOCATION LITTLE ARAM
RIVER MILE 3.50 [illegible] RETCHMONT AVE

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	24.0	7.0	7.94			1.0	K 5.0	18	44	573	K 5
07/15/93	24.0	7.0				1.3	12.0	31	21	386	K 5
07/29/93	28.0	10.2	8.42			2.1	K 5.0	13	61	709	K 5
08/12/93	24.0	7.1	7.87			1.0	K 5.0	16	77	765	K 5
08/26/93	27.4	6.9	7.71			K 1.0	7.0	K 10	64	672	K 5
09/09/93	21.7	7.8	7.90			K 1.0	K 5.0	17	65	643	K 5
Average	24.85	7.66	7.968			1.23	6.50	17.5	55.3	624.6	K 5.0
Maximum	28.0	10.2	8.42			2.1	12.0	31	77	765	K 5
Minimum	21.7	6.9	7.71			K 1.0	K 5.0	K 10	21	386	K 5

STORET 600580 RM 3.50

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	2.15	0.02	K 0.05	0.30			K 10	0.30	382	22
07/15/93	2.71	0.05	0.05	0.50		8.11	K 10	0.49	274	478
07/29/93	2.45	K 0.02	K 0.05	0.50			K 10	0.22	476	32
08/12/93	2.36	0.03	K 0.05	0.30			K 10	0.36	482	36
08/26/93	2.00	0.03	K 0.05	0.40			K 10	0.42	416	46
09/09/93	2.14	0.02	K 0.05	0.30			K 10	0.39	381	54
Average	2.301	0.028	0.050	0.383		8.110	K 10	0.363	401.8	111.3
Maximum	2.71	0.05	0.05	0.50		8.11	K 10	0.49	482	478
Minimum	2.00	K 0.02	K 0.05	0.30		8.11	K 10	0.22	274	22

Appendix Table A-4, continued.

STORET 600580 RM 3.50

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93	590	270	420	2	K 0.2	58	K 30	K 10	1590	2	22	118	K 0.20	K 40	K 2	11	235
07/15/93	9730	20000	8000	3	K 0.2	57	K 30	K 10	15200	14	20	447		K 40	K 2	62	225
07/29/93	160	90	140	2	K 0.2	81	K 30	K 10	836	K 2	30	104	K 0.20	K 40	K 2	14	326
08/12/93	480	280	360	K 2	K 0.2	77	K 30	K 10	1510	K 2	29	99	K 0.20	K 40	K 2	16	312
08/26/93	360	450	210	K 2	K 0.2	70	K 30	K 10	2810	3	22	172	K 0.20	K 40	K 2	23	265
09/09/93	210	140	210	K 2	K 0.2	65	K 30	K 10	2130	4	22	132		K 40	K 2	K 10	253
Average	1921.6	3538.3	1556.6	2.1	K 0.20	68.0	K 30.0	K 10.0	4012.6	4.5	24.1	178.6	K 0.20	K 40.0	K2.0	22.6	269.3
Maximum	9730	20000	8000	3	K 0.2	81	K 30	K 10	15200	14	30	447	K 0.20	K 40	K 2	62	326
Minimum	160	90	140	K 2	K 0.2	57	K 30	K 10	836	K 2	20	99	K 0.20	K 40	K 2	K 10	225

NOTE: K = less than
L = greater than

Appendix Table A-4, continued.

STORET M05P13 SITE LOCATION LITTLE MIAMI
RIVER MILE 1.45 @ KELLOGG AVE

Date	Temp (C)	D.O (mg/l)	pH (fld) (SU)	Chlorine Tot. Res. (mg/l)	Flow (cfs)	CBOD5 (mg/l)	TOC (mg/l)	COD (mg/l)	Cl (mg/l)	Conductivity (umhos/cm)	CN (ug/l)
07/01/93	24.3	6.3	7.95			K 1.0	K 5.0	18	48	627	
07/15/93	24.0	6.9				K 1.0	9.0	34	26	406	
07/29/93	28.0	8.6	8.32			2.4	K 5.0	57	59	701	
08/12/93	24.9	7.7	7.84			1.3	K 5.0	17	82	814	
08/26/93	28.5	7.2				2.0	K 5.0	K 10	69	691	
09/09/93	22.5	7.2	7.83			1.0	K 5.0	13	73	668	
Average	25.36	7.31	7.985			1.44	5.66	24.8	59.5	651.1	
Maximum	28.5	8.6	8.32			2.4	9.0	57	82	814	
Minimum	22.5	6.3	7.83			K 1.0	K 5.0	K 10	26	406	

STORET M05P13 RM 1.45

Date	NO3-NO2-N (mg/l)	NO2-N (mg/l)	NH3-N (mg/l)	TKN (mg/l)	Oil & Grease (mg/l)	pH(lab) (SU)	Phenolics (mg/l)	P-T (mg/l)	Flt. Res. (mg/l)	TSS (mg/l)
07/01/93	2.29	0.03	K 0.05	K 0.20				1.21	416	24
07/15/93	2.75	0.05	K 0.05	0.60		8.17		0.41	352	302
07/29/93	2.29	K 0.02	K 0.05	0.50				0.17	458	33
08/12/93	2.41	0.03	K 0.05	K 0.20				0.31	492	26
08/26/93	1.94	0.04	K 0.05	0.50		8.40		0.41	424	35
09/09/93	2.24	0.03	K 0.05	0.30				0.30	400	24
Average	2.319	0.033	K 0.050	0.383		8.285		0.468	423.6	74.0
Maximum	2.75	0.05	K 0.05	0.60		8.40		1.21	492	302
Minimum	1.94	K 0.02	K 0.05	K 0.20		8.17		0.17	352	24

Appendix Table A-4, continued.

STORET M05P13 RM 1.45

Date	Fecal Coliform (#/100ml)	Fecal Strept. (#/100ml)	E.coli (#/100ml)	As-T (ug/l)	Cd-T (ug/l)	Ca-T (mg/l)	Cr-T (ug/l)	Cu-T (ug/l)	Fe-T (ug/l)	Pb-T (ug/l)	Mg-T (mg/l)	Mn-T (ug/l)	Hg-T (ug/l)	Ni-T (ug/l)	Se-T (ug/l)	Zn-T (ug/l)	Hardness (mg/l)
07/01/93	470	340	430	3	K 0.2	71	K 30	K 10	1370	K 2	21	109	K 0.20	K 40	K 2	13	264
07/15/93	5600	9800	6000	4	K 0.2	55	K 30	K 10	10100	8	19	317		K 40	K 2	56	216
07/29/93	440	1190	390	K 2	K 0.2	76	K 30	K 10	963	K 2	30	92		K 40	K 2	K 10	313
08/12/93	60	70	30	K 2	K 0.2	80	K 30	K 10	1420	K 2	29	107		K 40	K 2	24	319
08/26/93	130	370	100	K 2	K 0.2	70	K 30	K 10	1610	K 2	22	125		K 40	K 2	21	265
09/09/93	240	90	270	K 2	K 0.2	68	K 30	K 10	1240	K 2	22	47		K 40	K 2	18	260
Average	1156.6	1976.6	1203.3	2.5	K 0.20	70.0	K 30.0	K 10.0	2783.8	3.0	23.8	132.8	K 0.20	K 40.0	K 2.0	23.6	272.8
Maximum	5600	9800	6000	4	K 0.2	80	K 30	K 10	10100	8	30	317	K 0.20	K 40	K 2	56	319
Minimum	60	70	30	K 2	K 0.2	55	K 30	K 10	963	K 2	19	47	K 0.20	K 40	K 2	K 10	216

NOTE: K = less than
L = greater than

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993.

Stream **River Mile** (Location)	----------Date Sample Collected----------		
Little Miami River			
RM 101.30 (Clifton Rd.)			
Parameter*	8/10/93	8/24/93	9/21/93
alpha-Hexachlorocyclohexane	0.004	0.005	ND
beta-Hexachlorocyclohexane	0.002	ND	ND
delta-Hexachlorocyclohexane	ND	0.002	ND
Dieldrin	0.002	0.004	0.003
RM 85.38 (Grinnel Rd.)			
Parameter*	8/24/93	9/21/93	
delta-Hexachlorocyclohexane	0.005	ND	
Dieldrin	ND	0.002	
RM 83.14 (Jacoby Rd.)			
Parameter*	8/10/93	8/24/93	9/21/93
alpha-Hexachlorocyclohexane	ND	ND	0.003
delta-Hexachlorocyclohexane	ND	0.010	ND
Dieldrin	0.002	ND	0.006
Endrin	ND	0.004	ND
RM 76.43 (Ust. Shawnee Cr.; Dst. Xenia Ford WWTP)			
Parameter*	7/27/93	8/10/93	9/07/93
alpha-Hexachlorocyclohexane	0.005	0.004	0.007
beta-Hexachlorocyclohexane	ND	0.002	ND
delta-Hexachlorocyclohexane	0.005	0.005	0.003
gamma-Hexachlorocyclohexane	0.004	0.003	ND
Dieldrin	0.007	ND	0.005
Endosulfan II	0.002	ND	ND
Bis (2-Ethylhexyl) Phthalate	ND	18.5	ND
1,2,3-Trichlorobenzene	ND	ND	0.6

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream
River Mile (Location) ----------Date Sample Collected----------

Little Miami River

RM 72.30 (Indian Ripple Rd.)

Parameter*	7/27/93	8/10/93	9/07/93
alpha-Hexachlorocyclohexane	0.002	ND	ND
beta-Hexachlorocyclohexane	ND	0.009	ND
delta-Hexachlorocyclohexane	0.006	0.009	0.011
gamma-Hexachlorocyclohexane	0.003	0.004	ND
4,4'-DDE	ND	0.002	0.006
Endrin	ND	ND	0.004
Dieldrin	0.005	0.003	0.004
Endosulfan II	0.005	0.006	ND
1,1,1,-Trichloroethane	***	0.5	0.5
Bromodichloromethane	***	ND	0.6
Chloroform	***	ND	0.6
Chloromethane	***	ND	1.8
Heptachlor Epoxide	ND	0.002	ND

RM 64.40 (Sugarcreek WWTP mixing)

Parameter*	7/27/93***
delta-Hexachlorocyclohexane	0.006
gamma-Hexachlorocyclohexane	0.003
Dieldrin	0.004

RM 64.28 (Dst. Sugarcreek WWTP)

Parameter*	8/10/93	9/07/93
alpha-Hexachlorocyclohexane	0.007	ND
delta-Hexachlorocyclohexane	0.006	0.015
gamma-Hexachlorocyclohexane	0.008	0.003
4,4'-DDE	0.003	0.002
Endrin	ND	0.008
Dieldrin	0.003	0.003
Bis (2-Ethylhexyl) Phthalate	98.7	ND
Chloromethane	ND	1.0

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream
River Mile (Location) ----------Date Sample Collected----------

Little Miami River

RM 43.76 (S.R. 350)

Parameter*	8/11/93	8/25/93	9/22/93
alpha-Hexachlorocyclohexane	0.004	ND	ND
delta-Hexachlorocyclohexane	0.006	ND	ND
gamma-Hexachlorocyclohexane	0.002	0.006	0.009
4,4'-DDE	0.003	ND	ND
Endrin	0.003	0.004	0.003
Dieldrin	0.005	0.005	ND
Endosulfan II	ND	ND	0.005

RM 35.98 (Stubbs Mill Rd.)

Parameter*	8/25/93	9/22/93
alpha-Hexachlorocyclohexane	0.010	0.003
gamma-Hexachlorocyclohexane	0.007	0.012
Endrin	0.003	0.006
Dieldrin	0.005	ND
Endosulfan II	0.004	0.005
Toluene	0.9	ND
1,2-Dichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	1.0

RM 31.96 (Ust. Muddy Cr.; Dst. Lebanon WWTP)

Parameter*	7/28/93	8/10/93	9/08/93
alpha-Hexachlorocyclohexane	ND	0.002	0.008
delta-Hexachlorocyclohexane	0.004	0.008	0.009
gamma-Hexachlorocyclohexane	0.004	0.007	0.008
Endrin	0.009	0.008	0.002
Dieldrin	0.005	0.006	0.010
1,2,3-Trichlorobenzene	ND	ND	0.7

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream
River Mile (Location) ----------Date Sample Collected----------

Little Miami River

RM 28.00 (Dst. Simpson Cr.)

Parameter*	7/28/93	8/11/93	9/08/93
alpha-Hexachlorocyclohexane	0.004	0.005	0.010
delta-Hexachlorocyclohexane	ND	ND	0.005
gamma-Hexachlorocyclohexane	0.003	0.005	0.007
Endrin	0.004	ND	ND
Dieldrin	0.005	0.003	0.006
4,4'-DDD	ND	0.007	0.011
4,4'-DDE	ND	ND	0.002
Methoxychlor	ND	ND	0.040

RM 24.10 (Ust. O'Bannon Cr.)

Parameter*	8/25/93	9/22/93
gamma-Hexachlorocyclohexane	0.004	0.005
Dieldrin	0.003	0.002
Endrin	ND	0.005
Endosulfan II	ND	0.003

RM 22.20 (Tote's Mixing zone)

Parameter*	7/28/93	8/11/93	9/08/93
beta-Hexachlorocyclohexane	0.017	**	**
delta-Hexachlorocyclohexane	0.141	**	**
gamma-Hexachlorocyclohexane	0.073	**	**
Endrin	0.109	**	**
Heptachlor	0.011	**	**
Aldrin	0.045	**	**
4,4'-DDD	0.015	**	**
4,4'-DDE	0.139	**	**
Endrin Aldehyde	0.022	**	**
4,4'-DDT	0.060	**	**
Chloroform	6.6	ND	1.6
Methoxychlor	ND	**	**

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream
River Mile (Location) ----------Date Sample Collected----------

Little Miami River

RM 18.14 (Carmago Rd.)

Parameter*	7/28/93	8/11/93	9/08/93
alpha-Hexachlorocyclohexane	ND	0.005	0.014
delta-Hexachlorocyclohexane	0.003	0.009	0.006
gamma-Hexachlorocyclohexane	0.005	0.006	0.005
Endrin	0.003	ND	ND
Dieldrin	0.004	ND	0.005
Endosulfan II	ND	0.004	ND
4,4'-DDD	ND	0.008	ND

RM 3.50 (Beechmont Ave.)

Parameter**	7/29/93	8/12/93	9/09/93
alpha-Hexachlorocyclohexane	0.006	0.011	ND
beta-Hexachlorocyclohexane	0.006	ND	ND
delta-Hexachlorocyclohexane	0.005	ND	0.011
gamma-Hexachlorocyclohexane	0.005	0.009	0.009
Dieldrin	0.002	ND	0.003
Endosulfan II	0.006	ND	0.006
4,4'-DDE	ND	0.003	0.003
Chloromethane	ND	ND	0.8
Toluene	ND	ND	0.6

RM 1.45 (Kellogg Ave.)

Parameter*	7/29/93	9/09/93
alpha-Hexachlorocyclohexane	0.003	0.003
delta-Hexachlorocyclohexane	0.005	0.010
gamma-Hexachlorocyclohexane	0.006	0.006
Dieldrin	0.002	0.004
Endosulfan II	0.006	0.006
4,4'-DDE	ND	0.002

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream
River Mile (Location) ----------Date Sample Collected----------

Yellow Springs Creek
RM 0.10 (Grinnel Rd.)

Parameter*	7/27/93	8/10/93	9/07/93
alpha-Hexachlorocyclohexane	0.003	ND	ND
beta-Hexachlorocyclohexane	0.004	0.003	ND
delta-Hexachlorocyclohexane	ND	0.008	0.005
Dieldrin	0.004	0.003	0.003
Chloromethane	ND	ND	0.8
1,2,3-Trichlorobenzene	ND	ND	0.6

Oldtown Creek
RM 0.10 (Near mouth)

Parameter*	8/24/93	9/21/93
delta-Hexachlorocyclohexane	0.004	ND
gamma-Hexachlorocyclohexane	0.004	ND
Dieldrin	0.002	ND

Beaver Creek
RM 0.20 (Dst. Beaver Cr. WWTP)

Parameter*	7/27/93	8/10/93	9/07/93
delta-Hexachlorocyclohexane	0.011	0.017	0.015
gamma-Hexachlorocyclohexane	0.003	0.009	0.004
Dieldrin	0.002	0.005	0.002
Endrin	ND	0.005	0.002
Endosulfan II	0.006	0.011	ND
4,4'-DDE	ND	0.008	ND
Chloroform	1.3	0.9	1.0
Bromodichloromethane	1.2	0.8	0.9
Dibromochloromethane	ND	ND	0.6

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream **River Mile** (Location)	----------Date Sample Collected----------		
Little Beaver Creek			
RM 4.53 (Dst. Montgomery Co. Eastern Regional WWTP)			
Parameter*	7/27/93	8/10/93	9/07/93
alpha-Hexachlorocyclohexane	ND	0.008	ND
beta-Hexachlorocyclohexane	ND	ND	0.006
gamma-Hexachlorocyclohexane	0.011	0.023	ND
Heptachlor	0.014	ND	0.016
Heptachlor Epoxide	ND	ND	0.002
Dieldrin	0.011	0.012	ND
Endrin	0.008	0.006	0.002
Endrin Aldehyde	0.018	0.008	ND
Endosulfan I	ND	0.006	ND
Endosulfan Sulfate	ND	ND	0.042
4,4'-DDE	0.021	0.012	0.006
Chloroform	0.8	ND	1.9
Chloromethane	ND	0.5	0.5
Bromodichloromethane	ND	0.9	1.0
Dibromochloromethane	ND	ND	0.6
Glady Run			
RM 4.75 (Dst. Xenia Glady Run WWTP swale)			
Parameter*	7/27/93	8/10/93	9/07/93
alpha-Hexachlorocyclohexane	ND	0.009	ND
delta-Hexachlorocyclohexane	ND	ND	0.018
gamma-Hexachlorocyclohexane	0.067	0.034	0.049
Heptachlor	0.031	0.012	ND
Dieldrin	0.015	0.013	0.008
Endrin	ND	ND	0.009
Endosulfan II	0.005	ND	ND
4,4'-DDD	ND	ND	0.006
Chloroform	1.7	1.2	1.9
Bromodichloromethane	ND	ND	0.8
Anderson Fork			
RM 4.90 (Old Winchester Trail)			
Parameter*	8/26/93	9/23/93	
Dieldrin	0.005	0.006	
Endosulfan II	0.005	ND	
Heptachlor Epoxide	ND	0.004	

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream **River Mile** (Location)	----------Date Sample Collected----------	
Caesar Creek		
RM 16.52 (Spring Valley-Paintersville Rd.)		
Parameter*	8/26/93	9/23/93
All parameters	ND	ND
Flat Fork		
RM 1.70 (Oregonia Rd.)		
Parameter*	9/23/93	
alpha-Hexachlorocyclohexane	0.009	
delta-Hexachlorocyclohexane	0.002	
4,4'-DDE	0.003	
Heptachlor epoxide	0.003	
Dieldrin	0.007	
Endrin	0.004	
Dry Run		
RM 1.79 (Snook Rd.)		
Parameter*	8/26/93	
gamma-Hexachlorocyclohexane	0.002	
Turtle Creek		
RM 6.23 (Glosser Rd.)		
Parameter*	8/25/93	9/22/93
alpha-Hexachlorocyclohexane	0.010	ND
beta-Hexachlorocyclohexane	0.006	0.004
gamma-Hexachlorocyclohexane	0.006	ND
Heptachlor epoxide	0.006	ND
Dieldrin	ND	0.004
Endosulfan II	0.003	0.005
4,4'-DDE	ND	0.003
Toluene	0.9	ND
1,2,3-Trichlorobenzene	0.5	ND
1,2,4-Trichlorobenzene	0.6	ND

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream **River Mile** (Location)	----------Date Sample Collected----------		
Turtle Creek			
RM 0.58 (Cincinnati Milacron diffuser mixing)			
Parameter*	7/28/93	8/11/93	9/08/93
alpha-Hexachlorocyclohexane	0.003	ND	ND
gamma-Hexachlorocyclohexane	0.018	0.048	ND
Endosulfan II	ND	0.003	ND
4,4'-DDE	0.008	ND	ND
Benzene	ND	ND	0.7
Bromoform	ND	ND	0.8
1,2,3-Trichloropropane	ND	ND	0.6
1,2,3-Trichlorobenzene	ND	0.7	0.8
Dibromochloromethane	ND	0.5	0.8
Benzylbutyl Phthalate	16.7	ND	ND
Di-N-Butyl Phthalate	14.7	ND	ND
Muddy Creek			
RM 2.50 (Mason-Morrow Rd.)			
Parameter*	7/28/93	9/08/93	
delta-Hexachlorocyclohexane	ND	0.009	
Dieldrin	0.005	ND	
Endrin	ND	0.006	
Chloroform	1.0	ND	
Stonelick Creek			
RM 16.74 (S.R. 133)			
Parameter*	8/26/93	9/23/93	
alpha-Hexachlorocyclohexane	0.011	ND	
delta-Hexachlorocyclohexane	ND	0.009	
gamma-Hexachlorocyclohexane	0.003	ND	
Heptachlor epoxide	ND	0.009	
Dieldrin	ND	0.002	
Endrin	ND	0.002	
Chloromethane	0.6	ND	

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream
River Mile (Location) ----------Date Sample Collected----------

Stonelick Creek
RM 3.10 (Dst. Lick Fork)

Parameter*	8/26/93	9/23/93
alpha-Hexachlorocyclohexane	0.010	0.006
beta-Hexachlorocyclohexane	0.004	ND
delta-Hexachlorocyclohexane	ND	0.004
Heptachlor epoxide	ND	0.003
Dieldrin	0.003	0.002
Aldrin	ND	0.005
Endosulfan II	ND	0.005
Toluene	0.9	ND
Chloromethane	0.6	ND

RM 1.00 (U.S. Rt. 50)

Parameter*	8/26/93	9/23/93
alpha-Hexachlorocyclohexane	ND	0.006
delta-Hexachlorocyclohexane	ND	0.002
gamma-Hexachlorocyclohexane	ND	0.004
Heptachlor epoxide	ND	0.002
Dieldrin	0.004	0.004
Endosulfan II	0.003	0.004
4,4'-DDE	ND	0.002

Sycamore Creek
RM 0.05 (Dst.Sycamore Cr. WWTP)

Parameter*	7/28/93	8/11/93	9/08/93
beta-Hexachlorocyclohexane	0.005	ND	ND
delta-Hexachlorocyclohexane	ND	0.021	0.040
gamma-Hexachlorocyclohexane	ND	0.012	0.006
Dieldrin	ND	0.005	0.005
Endrin	0.004	ND	0.005
Endosulfan I	0.006	0.005	ND
4,4'-DDD	0.015	0.015	ND
Benzene	ND	ND	0.7
Chloroform	2.7	ND	1.3
Bromodichloromethane	4.2	ND	0.7
Dibromochloromethane	2.5	ND	0.6
Tetrachloroethene	ND	1.1	ND

Appendix Table A-5. Concentration (µg/l) of organic compounds detected in water samples collected in the Little Miami River study area during 1993, continued.

Stream **River Mile** (Location)	----------Date Sample Collected----------		
East Fork Little Miami River			
RM 15.60 (S.R. 222)			
Parameter*	8/12/93	8/26/93	9/23/93
alpha-Hexachlorocyclohexane	0.008	0.007	0.005
delta-Hexachlorocyclohexane	ND	ND	0.002
gamma-Hexachlorocyclohexane	0.005	0.003	ND
Dieldrin	ND	0.004	0.003
Endosulfan II	0.003	0.002	0.002
Bis (2-Ethylhexyl) Phthalate	ND	ND	10.6
RM 0.77 (Cleveland Ave.)			
Parameter*	7/29/93	9/09/93	
alpha-Hexachlorocyclohexane	0.011	ND	
beta-Hexachlorocyclohexane	0.006	ND	
delta-Hexachlorocyclohexane	ND	0.011	
gamma-Hexachlorocyclohexane	0.010	0.008	
Dieldrin	ND	0.003	
Endrin	ND	0.006	
4,4'-DDE	0.003	0.003	

* Parameters in plain type are organochlorine pesticides; parameters in italic type are *volatile organic compounds*; and parameters in bold type are **semivolatile organic compounds**.

** Not analyzed for pcbs or pesticides.

*** Not analyzed for volatile organic compounds.

ND Compound not detected.

Appendix Table A-6. Summary of diurnal dissolved oxygen (D.O.) data recorded with Datasonde continuous monitors at 55 locations in the Little Miami River study area during 1993.

River Mile	Dates Sampled	Total Hours	Mean (mg/l)	Median (mg/l)	Minimum (mg/l)	Maximum (mg/l)	25th %ile (mg/l)	75th %ile (mg/l)
Little Miami River								
85.38	6/23-25	43	7.65	7.4	7.1	8.7	7.2	8.2
83.63	6/23-25	43	8.02	8.0	6.9	9.1	7.4	8.8
83.14	9/8-10	53	8.30	8.1	7.7	9.2	7.9	8.7
76.43	9/8-10	51	8.58	8.4	7.6	9.9	7.9	9.3
73.16	8/4-6	47	9.48	9.3	7.5	12.4	8.1	10.8
72.30	8/4-6	47	10.45	10.1	8.7	13.7	9.2	11.4
70.45	8/4-6	41	8.76	8.4	7.3	11.6	7.5	9.6
63.73	9/8-10	43	8.29	8.3	7.6	9.0	7.8	8.7
63.28	9/8-10	44	8.78	8.7	8.0	9.6	8.3	9.2
53.00	9/8-10	49	8.31	8.3	8.1	8.7	8.2	8.5
43.76	8/31-9/2	53	6.81	6.7	6.1	8.1	6.2	7.3
35.98	8/31-9/2	54	7.49	7.5	6.6	8.4	7.1	8.0
32.95	8/31-9/2	44	7.20	7.0	6.3	8.8	6.6	7.8
30.72	8/31-9/2	51	7.10	7.1	6.1	8.2	6.6	7.6
29.20	8/31-9/2	50	6.29	5.9‡‡‡	5.5‡‡‡	8.4	5.7‡‡‡	6.9
28.20	8/31-9/2	43	6.25	6.2	5.5‡‡‡	7.3	6.0	6.5
27.56	8/31-9/2	51	6.67	6.7	5.8‡‡‡	7.7	6.1	7.1
26.65	8/31-9/2	49	5.74‡‡‡	5.6‡‡‡	4.8‡‡‡	7.5	5.1‡‡‡	6.2
25.24	8/31-9/2	45	7.48	7.5	6.3	8.8	6.9	7.8
24.50	8/31-9/2	47	7.07	7.0	6.1	8.5	6.6	7.4
21.81	9/21-23	50	8.36	8.1	7.2	10.1	7.6	9.1
21.45	9/21-23	51	8.72	8.5	7.6	10.1	8.1	9.4
20.88	9/21-23	50	8.67	8.5	7.7	10.0	8.1	9.3
19.23	9/21-23	48	8.13	8.1	7.4	9.3	7.9	8.4
18.10	9/21-23	50	8.17	7.9	7.0	10.2	7.4	8.9
17.06	9/21-23	48	8.80	8.6	7.9	10.0	8.2	9.4
15.00	9/21-23	43	9.48	9.3	8.1	11.3	8.5	10.5
3.50	9/28-30	70	9.53	9.5	8.9	10.4	9.2	9.8
1.45	9/28-30	67	8.52	8.4	8.0	9.4	8.2	8.8
Yellow Springs Creek								
0.44	9/29-30	22	10.45	10.4	10.0	11.1	10.1	10.8
0.23	9/29-30	21	9.89	9.9	9.4	10.5	9.5	10.3
0.10	9/29-30	20	8.53	8.3	8.2	9.2	8.2	8.8
Beaver Creek								
1.13	8/4-6	45	8.45	8.3	7.4	9.8	8.0	8.9
0.41	8/4-6	45	7.51	7.0	6.4	10.3	6.5	8.2
0.01	8/4-6	22	8.01	7.8	7.4	8.9	7.6	8.5
Little Beaver Creek								
0.05	8/4-6	45	8.30	7.7	6.7	11.2	7.2	9.1

Appendix Table A-6. Summary of diurnal dissolved oxygen (D.O.) data recorded with Datasonde continuous monitors at 55 locations in the Little Miami River study area during 1993, continued.

River Mile	Dates Sampled	Total Hours	Mean (mg/l)	Median (mg/l)	Minimum (mg/l)	Maximum (mg/l)	25th %ile (mg/l)	75th %ile (mg/l)
Glady Run								
4.08	9/8-10	45	7.35	7.4	6.9	7.9	7.1	7.6
2.08	9/8-10	47	8.43	8.0	7.6	9.9	7.7	9.3
1.10	9/8-10	46	8.57	8.3	7.8	10.4	8.1	9.1
0.60	9/8-10	47	8.50	8.3	7.8	9.8	7.9	9.0
Glady Run WWTP Swale								
0.21	9/8-10	46	9.22	8.6	7.9	11.8	8.3	10.3
0.01	9/8-10	46	6.80	6.8	6.3	7.3	6.6	7.0
Turtle Creek								
0.70	9/28-10/1	71	9.95	10.0	7.9	11.6	9.6	10.6
0.57	9/28-10/1	71	7.10	7.2	2.3‡‡	9.7	5.8	8.8
0.01	9/28-10/1	71	7.55	6.6	2.8‡‡	14.6	4.0	10.9
Muddy Creek								
3.50	8/31-9/2	45	8.41	7.9	7.3	10.6	7.6	9.3
2.50	8/31-9/2	45	5.93	5.8	4.4	7.6	5.1	6.6
Simpson Creek								
0.15	8/31-9/2	46	5.87	5.7	5.1	7.3	5.3	6.2
0.01	8/31-9/2	44	7.23	7.2	6.8	8.1	7.0	7.4
Sycamore Creek								
0.27	9/21-23	44	8.46	6.5	5.7	15.0	6.1	11.1
0.05	9/21-23	44	6.70	6.6	5.5	8.3	6.2	7.2
O'Bannon Creek								
0.26	9/21-23	47	10.62	11.0	7.7	11.9	9.8	11.3
East Fork Little Miami River								
6.57	9/28-10/1	68	8.22	8.1	7.4	9.5	7.8	8.6
4.30	9/28-10/1	67	10.13	10.0	9.2	11.5	9.6	10.6
2.50	9/28-10/1	68	9.43	9.4	8.4	10.5	9.0	9.9

‡ violation of the WWH minimum 24-hour average dissolved oxygen (D.O.) criterion (5.0 mg/l).
‡‡ violation of the WWH minimum dissolved oxygen (D.O.) criterion (4.0 mg/l).
‡‡‡ violation of the EWH minimum dissolved oxygen (D.O.) criterion (6.0 mg/l).

Appendix Table A-7: Particle size distribution in sediments collected from the Little Miami River study area in 1993.

LOCATION (SETTLING TIMES IN MINUTES) [PARTICLE SIZE IN MICRONS]	RM	SAND & >; (%) (0.5) [>60]	COARSE SILT; (%) (0.5-3) [60-30]	MED SILT; (%) (3-10) [30-15]	FINE SILT; (%) (10-90) [15-8]	VFINE SILT; (%) (90-270) [8-4]	COARSE CLAY; (%) (270-720) [4-2]	MED CLAY; (%) (720-1440) [2-1]	FINE CLAY; (%) (>1440) [<1]
Anderson Fork at Old Winchester Trail	4.90	67.0	10.4	7.2	6.4	2.1	1.0	0.9	5.0
Beaver Crk at US-35	1.04	68.8	7.7	4.9	5.2	2.0	0.9	1.1	9.4
Beaver Crk at Dayton Xenia Rd	1.57	61.1	10.6	7.3	7.0	2.9	1.3	1.3	8.5
Caesar Crk at Spring Valley/Paintersville Rd	16.52	68.3	10.5	3.4	7.1	1.5	1.2	0.6	7.4
Dry Run at Snook Rd	1.79	26.2	5.9	15.0	23.4	4.6	3.9	1.6	19.4
EF LMR at Cleveland Ave	0.77	59.2	10.4	5.6	10.9	1.2	0.4	1.9	10.4
EF at Lower LMR WWTP mixing zone	4.85	67.2	10.0	6.2	5.1	2.1	0.8	0.7	7.9
EF at Lower LMR WWTP mixing zone; dup.	4.85	71.8	11.0	3.3	5.6	1.0	0.5	1.5	5.3
EF at Lower LMR WWTP mixing zone; (aver)	4.85	69.5	10.5	4.8	5.4	1.6	0.7	1.1	6.6
EF LMR at Middle East Fork WWTP mixing zone	12.59	91.3	3.8	0.7	1.2	0.5	0.6	1.9	0.0
EF LMR at Batavia WWTP mixing zone	13.35	90.4	1.7	0.7	1.9	0.5	0.5	0.7	3.6
EF LMR at OH-222	15.60	70.2	16.0	3.9	3.8	0.9	0.6	0.7	3.9
Flat Fork at Oregonia Rd	1.70	43.4	3.9	8.7	17.3	3.7	3.9	2.0	17.1
Glady Run ust Swale	4.82	32.1	14.4	11.6	16.3	5.0	3.8	2.0	14.8
L Beaver Crk dst Mont Co. E Reg'l WWTP	4.53	70.5	7.8	5.2	6.7	1.4	1.6	0.6	6.2
L Beaver Crk ust Mont Co. E Reg'l WWTP	4.62	78.3	2.5	2.6	6.7	1.6	1.5	1.5	5.3
LMR at Beechmont	3.50	63.9	9.0	5.9	8.7	1.0	1.6	0.5	9.4
LMR ust O'Bannon Crk	24.10	41.3	17.7	9.9	12.3	3.7	2.0	1.7	11.4
LMR dst Simpson Crk	28.00	70.8	6.1	5.2	5.0	1.8	0.6	0.9	9.6
LMR dst Lebanon WWTP	31.96	29.3	12.4	10.9	18.8	6.5	4.8	1.9	15.4
LMR at OH-350	43.76	76.6	8.0	3.6	3.8	2.1	1.4	0.7	3.8
LMR at Spring Valley/Roadside Park	63.28	39.8	12.4	11.6	15.2	4.2	3.0	2.0	11.8
LMR dst Sugar Crk WWTP	64.28	40.3	11.7	14.6	13.1	2.6	1.7	1.9	14.1
LMR at Indian Ripple Rd	72.30	58.9	14.1	7.1	6.7	2.3	1.5	1.5	7.9
LMR dst Xenia WWTP	76.80	66.2	9.5	3.9	8.1	2.3	1.3	1.0	7.7
LMR at Dolly Varden Rd	98.98	72.4	2.5	3.8	5.9	2.7	0.7	1.3	10.7
Newman Run at Pekin Rd	0.27	28.6	4.2	14.9	23.3	5.5	2.4	2.4	18.7
Oldtown Creek	0.10	47.3	6.7	10.9	14.0	3.5	1.8	1.7	14.1
Stonelick Crk at US-50	1.00	47.8	12.3	7.3	12.8	3.8	1.4	1.2	13.4
Sycamore Crk dst Sycamore WWTP	0.05	81.0	4.4	3.8	4.8	0.8	1.4	1.4	2.4
Sycamore Crk ust Sycamore WWTP	0.40	88.1	1.8	1.1	2.5	0.8	0.7	0.6	4.4
Turtle Crk at mouth	0.01	46.7	16.4	10.4	8.8	2.1	1.1	1.4	13.1
Turtle Crk dst Cincinnati Milacron, at OH-48	0.52	53.6	8.4	7.1	10.7	3.0	1.8	1.0	14.4
Turtle Crk dst Cin. Milacron, at OH-48; dup.	0.52	59.7	8.5	6.6	8.3	2.6	1.2	1.3	11.8
Turtle Crk dst Cin. Milacron, at OH-48; (aver)	0.52	56.7	8.5	6.9	9.5	2.8	1.5	1.2	13.1
Turtle Crk at Cincinnati Milacron mix zone	0.58	27.1	5.9	9.0	15.4	6.9	5.0	3.2	27.5
Turtle Crk at Cincinnati Milacron mix zone; dup.	0.58	19.7	4.4	9.2	16.0	6.9	5.7	2.6	35.5
Turtle Crk at Cin. Milacron mix zone; (aver)	0.58	23.4	5.2	9.1	15.7	6.9	5.4	2.9	31.5
Turtle Crk at Mason Rd	0.70	50.4	7.1	6.9	14.9	2.2	2.6	2.0	13.9
Turtle Crk at Glosser Rd	6.23	26.5	13.0	10.1	26.6	3.7	3.0	3.1	14.0
Turtle Crk at Glosser Rd; dup.	6.23	30.4	8.2	10.7	24.5	4.3	3.0	2.7	16.2
Turtle Crk at Glosser Rd; (aver)	6.23	28.5	10.6	10.4	25.6	4.0	3.0	2.9	15.1
Yellow Springs Crk at Grinnel Rd	0.10	57.4	8.9	8.0	10.3	1.8	1.9	1.9	9.8
Yellow Springs Crk at Grinnel Rd; dup.	0.10	59.7	8.8	8.3	10.9	1.8	1.5	1.6	7.4
Yellow Springs Crk at Grinnel Rd; (aver)	0.10	58.6	8.9	8.2	10.6	1.8	1.7	1.8	8.6

Appendix Table A-8a. Sediment concentrations (mg/kg) of organic compounds (priority pollutant scan) detected in the Little Miami River study area during 1993. Note: ND denotes No Detection (*i.e.*, below detection limit or not present).

	Little Miami River (RM)				
Parameter	98.98	85.38	76.43	72.30	64.28
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)					
PHTHALATES (mg/kg)					
Bis (2-Ethylhexyl) Phthalate	ND	ND	ND	2.6	ND
DI-N-Butyl Phthalate	ND	ND	ND	0.8	ND
PAH's					
Benzo [B&K] Fluoranthene	ND	ND	ND	0.9	ND
Fluoranthene	ND	ND	ND	0.7	ND

	Little Miami River (RM)				
Parameter	63.28	43.76	35.98	31.96	28.00
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)					
PAH's					
Benzo [B&K] Fluoranthene	1.3	ND	ND	ND	ND
Benzo [A] Anthracene	0.7	ND	ND	ND	ND
Chrysene	0.8	ND	ND	ND	ND
Fluoranthene	1.8	ND	ND	ND	ND
Phenanthrene	1.4	ND	ND	ND	ND
Pyrene	1.4	ND	ND	ND	ND

	Little Miami River (RM)	
Parameter	24.10	3.50
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)		
PHTHALATES (mg/kg)		
Bis (2-ethylhexyl) Phthalate	ND	1.2
PAH's		
Benzo [B&K] Fluoranthene	ND	2.8
Benzo [A] Anthracene	ND	1.2
Benzo [A] Pyrene	ND	1.5
Benzo [GHI] Perylene	ND	1.0
Chrysene	ND	1.6
Fluoranthene	ND	3.6
Indeno [1,2,3-CD] Pyrene	ND	1.7
Phenanthrene	ND	1.8
Pyrene	ND	2.6

Appendix Table A-8a. Sediment concentrations (mg/kg) of organic compounds (priority pollutant scan) detected in the Little Miami River study area during 1993. Note: ND denotes No Detection (*i.e.*, below detection limit or not present), continued.

Parameter	Stream (River Mile) Y.Springs Cr. (0.10)	Oldtown Cr. (0.10)	Beaver Cr. (1.57)
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)			
PHTHALATES (mg/kg)			
Bis (2-ethylhexyl) Phthalate	ND	0.8	ND
DI-N-Butyl Phthalate	ND	1.2	ND

Parameter	Stream (River Mile) Beaver Cr. (1.04)	Beaver Cr. (0.20)	L.Beaver Cr. (4.62)
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)			
PHTHALATES (mg/kg)			
Bis (2-ethylhexyl) Phthalate	ND	0.9	ND
DI-N-Butyl Phthalate	ND	0.9	ND
PAH's			
Fluoranthene	1.0	1.0	ND
Pyrene	0.8	0.9	ND

Parameter	Stream (River Mile) L.Beaver Cr. (4.53)	Glady Run (4.82)	Glady Run (4.75)
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)			
PHTHALATES (mg/kg)			
Bis (2-ethylhexyl) Phthalate	ND	ND	2.7
PAH's			
Benzo [B&K] Fluoranthene	0.7	ND	ND
Fluoranthene	0.9	ND	2.1
Pyrene	0.8	ND	1.7
Chrysene	ND	ND	1.2

Appendix Table A-8a. Sediment concentrations (mg/kg) of organic compounds (priority pollutant scan) detected in the Little Miami River study area during 1993. Note: ND denotes No Detection (*i.e.*, below detection limit or not present), continued.

Parameter	Stream (River Mile) Anderson Fk (4.90)	Newman Run (0.27)	Caesar Ck (16.52)
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)			
PHTHALATES (mg/kg)			
Bis (2-ethylhexyl) Phthalate	0.7	ND	ND

Parameter	Stream (River Mile) Flat Fk (1.70)	Dry Run (1.79)	Turtle Cr (6.23)
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)			
PHTHALATES (mg/kg)			
DI-N-Butyl Phthalate	ND	5.9	ND
Dimethyl Phthalate	ND	ND	2.4
PAH's			
Benzo [A] Pyrene	ND	ND	1.1
Benzo [GHI] Perylene	ND	ND	0.9
Benz [A] Anthracene	ND	ND	1.0
Chrysene	ND	ND	1.6
Fluoranthene	ND	ND	2.7
Indeno [1,2,3-CD] Pyrene	ND	ND	1.2
Pyrene	ND	ND	2.3

Parameter	Stream (River Mile) Turtle Cr (0.70)	Turtle Cr (0.58)	Turtle Cr (0.52)
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)			
PAH's			
Fluoranthene	ND	ND	0.6

Appendix Table A-8a. Sediment concentrations (mg/kg) of organic compounds (priority pollutant scan) detected in the Little Miami River study area during 1993. Note: ND denotes No Detection (*i.e.*, below detection limit or not present), continued.

Parameter	Stream (River Mile) Turtle Cr (0.01)	Stonelick Cr (1.00)	Sycamore Cr (0.40)
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)			
PAH's			
Benzo [B&K] Fluoranthene	1.1	ND	ND
Fluoranthene	0.8	ND	0.7
Pyrene	ND	ND	0.6

Parameter	Stream (River Mile) Sycamore Cr (0.05)	E.Fk LMR (15.60)	E.Fk.LMR (13.35)
VOLATILE ORGANIC COMPOUNDS (mg/kg)			
Solvents			
Toluene	0.07	ND	ND
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)			
PAH's			
Anthracene	0.7	ND	ND
Benzo [B&K] Fluoranthene	3.0	ND	ND
Benzo [A] Pyrene	1.7	ND	ND
Benzo [GHI] Perylene	1.0	ND	ND
Benzo [A] Anthracene	1.4	ND	ND
Chrysene	1.6	ND	ND
2,6-Dinitrotoluene	8.6	ND	ND
Di-N-Butyl Phthalate	1.2	ND	ND
Fluoranthene	7.2	ND	ND
Fluorene	0.7	ND	ND
Indeno-1,2,3-CD] Pyrene	1.0	ND	ND
Phenanthrene	4.0	ND	ND
Pyrene	4.5	ND	ND

	Stream (River Mile) E.Fk LMR (12.59)	E.Fk.LMR (4.85)	E.Fk.LMR (0.77)
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)			
PAH's			
Fluoranthene	ND	0.9	ND
Pyrene	ND	0.6	ND

Appendix Table A-8b. Summary of contaminant levels in fish tissue samples collected from the Little Miami River during 1993. Note: SOFC = skin on scaled fillet composite, SFFC = skin off fillet composite, WBC = whole body composite, ND = not detected [*i.e.*, below detection levels], and NA = not analyzed.

Parameter	RM 83.1 3-rock bass (SOFC)	RM 83.1 4-smallmouth bass (SOFC)	RM 83.1 2-common carp (WBC)	RM 64.4 5-rock bass (SOFC)
Metals (ug/g = PPM)				
Cadmium	0.00798	<0.00618	0.0215	0.00624
Lead	0.227	<0.0618	0.0660	0.303
Mercury	0.157	0.181	0.274	0.0707
Pesticides (ug/kg = PPB)				
Aldrin	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND
y-BHC	ND	ND	ND	ND
4,4'-DDD	ND	ND	6.52	ND
4,4'-DDE	ND	5.22	35.91	3.20
4,4'-DDT	ND	ND	ND	ND
Dieldrin	3.58	11.56	68.74	2.53
Endosulfane I	ND	ND	ND	ND
Endosulfane II	ND	ND	ND	ND
Endosulfane Sulfate	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
Endrin Aldehyde	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	ND	9.55	ND
Methoxychlor	ND	ND	ND	ND
Mirex	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	NA	NA	NA	NA
PCB's (ug/kg = PPB)				
PCB-1016	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND
PCB-1260	ND	13.13	137.92	ND

Appendix Table A-8b. Summary of contaminant levels in fish tissue samples collected from the Little Miami River during 1993. Note: SOFC = skin on scaled fillet composite, SFFC = skin off fillet composite, WBC = whole body composite, ND = not detected [*i.e.*, below detection levels], and NA = not analyzed, continued.

Parameter	RM 64.4 2-smallmouth bass (SOFC)	RM 64.2 2-largemouth bass (SOFC)	RM 64.2 4-common carp (WBC)	RM 53.5 2-channel catfish (SFFC)
Metals (ug/g = PPM)				
Cadmium	<0.00615	<0.00580	0.0457	<0.00582
Lead	<0.0615	0.771	1.88	0.475
Mercury	0.312	0.172	0.0974	0.174
Pesticides (ug/kg = PPB)				
Aldrin	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND
y-BHC	ND	ND	ND	ND
4,4'-DDD	2.70	3.15	15.88	6.13
4,4'-DDE	12.66	11.64	58.51	19.87
4,4'-DDT	ND	ND	ND	ND
Dieldrin	11.56	12.42	22.60	18.73
Endosulfane I	ND	ND	ND	ND
Endosulfane II	ND	ND	ND	ND
Endosulfane Sulfate	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
Endrin Aldehyde	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	2.44	5.27	ND
Methoxychlor	ND	ND	ND	ND
Mirex	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	NA	NA	NA	NA
PCB's (ug/kg = PPB)				
PCB-1016	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND
PCB-1260	32.94	38.55	222.86	55.29

Appendix Table A-8b. Summary of contaminant levels in fish tissue samples collected from the Little Miami River during 1993. Note: SOFC = skin on scaled fillet composite, SFFC = skin off fillet composite, WBC = whole body composite, ND = not detected [*i.e.*, below detection levels], and NA = not analyzed, continued.

Parameter	RM 38.6 5-smallmouth bass (SOFC)	RM 38.6 2-sauger (WBC)	RM 38.6 5-rockbass (SOFC)	RM 38.6 3-common carp (WBC)	RM 32.1 3-white bass (SOFC)
Metals (ug/g = PPM)					
Cadmium	<0.00597	<0.00618	<0.00620	0.0429	<0.00610
Lead	0.0954	<0.0618	<0.0620	0.438	<0.0615
Mercury	0.140	0.226	0.164	0.113	0.0758
Pesticides (ug/kg = PPB)					
Aldrin	ND	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND	ND
y-BHC	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	11.07	2.59
4,4'-DDE	4.43	7.65	2.03	52.48	7.30
4,4'-DDT	ND	ND	ND	ND	ND
Dieldrin	6.25	5.62	3.57	38.06	6.44
Endosulfane I	ND	ND	ND	ND	ND
Endosulfane II	ND	ND	ND	ND	ND
Endosulfane Sulfate	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND
Endrin Aldehyde	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND
Heptachlor Epoxide	ND	ND	ND	7.83	ND
Methoxychlor	ND	ND	ND	ND	ND
Mirex	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND
Toxaphene	NA	NA	NA	NA	NA
PCB's (ug/kg = PPB)					
PCB-1016	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND
PCB-1260	12.88	43.80	ND	219.70	54.29

Appendix Table A-8b. Summary of contaminant levels in fish tissue samples collected from the Little Miami River during 1993. Note: SOFC = skin on scaled fillet composite, SFFC = skin off fillet composite, WBC = whole body composite, ND = not detected [*i.e.*, below detection levels], and NA = not analyzed, continued.

Parameter	RM 31.9 3-smallmouth bass (SOFC)	RM 31.9 3-sauger (SOFC)	RM 31.9 4-channel catfish (SFFC)	RM 31.9 3-freshwater drum (SOFC)
Metals (ug/g = PPM)				
Cadmium	<0.00601	<0.00611	<0.00585	<0.00591
Lead	0.147	<0.0661	0.146	0.0591
Mercury	0.109	0.242	0.0961	0.167
Pesticides (ug/kg = PPB)				
Aldrin	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND
y-BHC	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	3.11
4,4'-DDE	ND	ND	ND	10.06
4,4'-DDT	ND	ND	ND	ND
Dieldrin	ND	ND	ND	18.93
Endosulfane I	ND	ND	ND	ND
Endosulfane II	ND	ND	ND	ND
Endosulfane Sulfate	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
Endrin Aldehyde	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	ND	ND	3.03
Methoxychlor	ND	ND	ND	ND
Mirex	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	NA	NA	NA	NA
PCB's (ug/kg = PPB)				
PCB-1016	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND
PCB-1260	ND	ND	ND	53.12

Appendix Table A-8b. Summary of contaminant levels in fish tissue samples collected from the Little Miami River during 1993. Note: SOFC = skin on scaled fillet composite, SFFC = skin off fillet composite, WBC = whole body composite, ND = not detected [*i.e.*, below detection levels], and NA = not analyzed, continued.

Parameter	RM 31.9 3-carp (WBC)	RM 27.9 2-smallmouth bass (SOFC)	RM 27.9 1-channel catfish (SFFC)	RM 27.9 2-freshwater drum (SOFC)
Metals (ug/g = PPM)				
Cadmium	0.0255	0.00674	<0.00557	<0.00596
Lead	0.142	0.925	0.0891	<0.0596
Mercury	0.121	0.170	0.0574	0.193
Pesticides (ug/kg = PPB)				
Aldrin	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND
y-BHC	ND	ND	ND	ND
4,4'-DDD	13.60	ND	7.09	ND
4,4'-DDE	40.84	4.40	12.89	5.43
4,4'-DDT	ND	ND	ND	ND
Dieldrin	33.84	3.98	67.07	8.73
Endosulfane I	ND	ND	ND	ND
Endosulfane II	ND	ND	ND	ND
Endosulfane Sulfate	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
Endrin Aldehyde	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	7.06	ND	11.09	ND
Methoxychlor	ND	ND	ND	ND
Mirex	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	NA	NA	NA	NA
PCB's (ug/kg = PPB)				
PCB-1016	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND
PCB-1260	133.93	17.42	27.24	25.23

Appendix Table A-8b. Summary of contaminant levels in fish tissue samples collected from the Little Miami River during 1993. Note: SOFC = skin on scaled fillet composite, SFFC = skin off fillet composite, WBC = whole body composite, ND = not detected [*i.e.*, below detection levels], and NA = not analyzed, continued.

Parameter	RM 27.9 3-carp (WBC)	RM 18.5 1-spotted bass (SOFC)	RM 18.5 4-sauger (SOFC)	RM 18.5 3-channel catfish (SFFC)
Metals (ug/g = PPM)				
Cadmium	0.0376	<0.00590	<0.00579	<0.00614
Lead	0.163	0.0944	0.148	0.0614
Mercury	0.0798	0.717	0.183	0.148
Pesticides (ug/kg = PPB)				
Aldrin	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND
y-BHC	ND	ND	ND	ND
4,4'-DDD	9.25	ND	ND	ND
4,4'-DDE	19.43	ND	ND	19.52
4,4'-DDT	ND	ND	ND	ND
Dieldrin	22.48	ND	ND	41.90
Endosulfane I	ND	ND	ND	ND
Endosulfane II	ND	ND	ND	ND
Endosulfane Sulfate	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
Endrin Aldehyde	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Mirex	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	NA	NA	NA	NA
PCB's (ug/kg = PPB)				
PCB-1016	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND
PCB-1260	50.88	ND	ND	ND

Appendix Table A-8b. Summary of contaminant levels in fish tissue samples collected from the Little Miami River during 1993. Note: SOFC = skin on scaled fillet composite, SFFC = skin off fillet composite, WBC = whole body composite, ND = not detected [*i.e.*, below detection levels], and NA = not analyzed, continued.

Parameter	RM 18.5 3-carp (WBC)	RM 8.0 3-smallmouth bass (SOFC)	RM 8.0 3-channel catfish (SFFC)	RM 8.0 3-freshwater drum (SOFC)
Metals (ug/g = PPM)				
Cadmium	0.0396	0.0251	<0.00587	0.00726
Lead	0.356	0.270	0.112	<0.0605
Mercury	0.109	0.128	0.0744	0.160
Pesticides (ug/kg = PPB)				
Aldrin	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND
y-BHC	ND	ND	ND	ND
4,4'-DDD	14.56	ND	ND	ND
4,4'-DDE	101.69	ND	25.87	ND
4,4'-DDT	ND	ND	ND	ND
Dieldrin	35.03	ND	50.05	ND
Endosulfane I	ND	ND	ND	ND
Endosulfane II	ND	ND	ND	ND
Endosulfane Sulfate	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
Endrin Aldehyde	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	6.69	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Mirex	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	NA	NA	NA	NA
PCB's (ug/kg = PPB)				
PCB-1016	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND
PCB-1260	335.74	ND	167.75	ND

Appendix Table A-8b. Summary of contaminant levels in fish tissue samples collected from the Little Miami River during 1993. Note: SOFC = skin on scaled fillet composite, SFFC = skin off fillet composite, WBC = whole body composite, ND = not detected [*i.e.*, below detection levels], and NA = not analyzed, continued.

Parameter	RM 8.0 3-carp (WBC)	RM 3.5 2-smallmouth bass (SOFC)	RM 3.5 1-white bass (SOFC)	RM 3.5RM 3.5 1-channel catfish3-carp (SFFC)(WBC)
Metals (ug/g = PPM)				
Cadmium	0.0356	<0.00609	<0.00579	0.006430.0362
Lead	0.247	<0.0609	0.352	0.1530.333
Mercury	0.0735	0.118	0.146	0.05300.0921
Pesticides (ug/kg = PPB)				
Aldrin	ND	ND	ND	NDND
a-BHC	ND	ND	ND	NDND
b-BHC	ND	ND	ND	NDND
d-BHC	ND	ND	ND	NDND
y-BHC	ND	ND	ND	NDND
4,4'-DDD	18.43	ND	ND	ND28.84
4,4'-DDE	88.33	ND	17.48	28.08149.00
4,4'-DDT	ND	ND	ND	ND5.48
Dieldrin	45.17	ND	16.42	23.8850.45
Endosulfane I	ND	ND	ND	NDND
Endosulfane II	ND	ND	ND	NDND
Endosulfane Sulfate	ND	ND	ND	NDND
Endrin	ND	ND	ND	NDND
Endrin Aldehyde	ND	ND	ND	NDND
Heptachlor	ND	ND	ND	NDND
Heptachlor Epoxide	8.77	ND	ND	ND11.13
Methoxychlor	ND	ND	ND	ND7.61
Mirex	ND	ND	ND	ND6.05
Hexachlorobenzene	ND	ND	ND	NDND
Chlordane	ND	ND	ND	NDND
Toxaphene	NA	NA	NA	NANA
PCB's (ug/kg = PPB)				
PCB-1016	ND	ND	ND	NDND
PCB-1221	ND	ND	ND	NDND
PCB-1232	ND	ND	ND	NDND
PCB-1242	ND	ND	ND	NDND
PCB-1248	ND	ND	ND	NDND
PCB-1254	ND	ND	ND	NDND
PCB-1260	169.24	ND	207.64	201.811049.51

Appendix Table A-9. Invertebrate Community Index (ICI) metrics and scores (by RM) for locations sampled in the Little Miami River study area, 1993.

River Mile	Drainage Area (sq mi)	Number of: Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Percent: Mayflies	Caddisflies	Tanytarsini	Other Dipt/NI	Tolerant Taxa	Qual. EPT	Eco-region	ICI
LITTLE MIAMI RIVER — 11-001													
Year: 93													
98.80	30.0	41(6)	6(4)	2(4)	21(6)	20.4(4)	0.3(2)	45.1(6)	26.5(6)	1.2(6)	14(6)	5	50
85.30	104.0	40(6)	8(4)	4(4)	21(6)	37.8(6)	2.1(2)	32.8(4)	26.9(6)	8.2(4)	12(4)	5	46
83.10	122.0	38(6)	9(6)	4(4)	17(4)	14.7(2)	9.7(4)	44.6(6)	30.6(4)	1.7(6)	18(6)	5	48
80.60	130.0	35(4)	10(6)	4(4)	14(4)	21.6(4)	6.6(2)	55.0(6)	16.7(6)	7.1(4)	18(6)	5	46
76.70	218.0	36(4)	9(6)	4(4)	14(4)	13.0(2)	8.4(2)	65.4(6)	13.1(6)	1.7(6)	15(4)	5	44
72.30	295.0	46(6)	13(6)	7(6)	16(6)	13.4(2)	14.7(4)	61.2(6)	10.6(6)	2.7(6)	13(4)	5	52
65.60	310.0	33(4)	9(6)	6(6)	9(2)	26.6(4)	6.6(2)	55.5(6)	11.1(6)	3.8(4)	16(4)	5	44
64.40	345.0	47(6)	8(4)	7(6)	24(6)	7.0(2)	3.3(2)	43.6(6)	45.7(2)	22.6(0)	13(4)	5	38
64.20	346.0	37(6)	10(6)	4(4)	15(4)	26.4(4)	8.9(2)	50.5(6)	13.6(6)	2.8(6)	11(2)	5	46
63.00	360.0	31(4)	9(6)	4(4)	10(2)	46.0(6)	7.0(2)	40.1(6)	6.2(6)	2.5(6)	12(4)	5	46
53.20	402.0	29(4)	6(4)	5(4)	9(2)	77.8(6)	6.5(2)	4.8(2)	7.2(6)	1.9(6)	14(4)	5	40
47.50	668.0	45(6)	10(6)	4(4)	22(6)	30.9(6)	1.9(0)	10.4(2)	55.8(0)	4.7(2)	11(2)	2	34
43.70	681.0	44(6)	9(6)	5(4)	19(6)	62.8(6)	8.6(2)	13.1(2)	13.8(6)	1.6(6)	12(4)	2	48
38.60	687.0	45(6)	11(6)	5(4)	17(6)	61.3(6)	15.2(4)	3.1(2)	18.8(6)	0.5(6)	16(4)	2	50
35.90	959.0	44(6)	10(6)	1(0)	21(6)	62.5(6)	0.3(0)	7.6(2)	24.5(4)	3.5(2)	11(2)	2	34
32.90	1035.0	50(6)	11(6)	9(6)	20(6)	38.4(6)	23.1(4)	23.4(4)	13.2(6)	0.7(6)	17(6)	2	56
32.10	1036.0	49(6)	11(6)	4(4)	25(6)	12.7(4)	5.2(2)	4.2(2)	76.5(0)	64.2(0)	11(4)	2	34
32.00	1036.0	44(6)	12(6)	8(6)	14(6)	33.0(6)	21.8(4)	32.8(6)	8.5(6)	1.5(4)	17(6)	2	56
30.70	1057.0	42(6)	11(6)	8(6)	12(6)	21.7(4)	11.5(2)	48.5(6)	11.9(6)	0.0(6)	15(4)	2	52
29.20	1064.0	40(6)	11(6)	8(6)	10(4)	23.5(4)	7.3(2)	55.4(6)	9.9(6)	0.3(6)	19(6)	2	52
23.90	1145.0	47(6)	13(6)	6(4)	18(6)	46.2(6)	14.1(2)	18.2(4)	20.1(4)	0.1(6)	18(6)	2	50
22.20	1148.0	46(6)	8(6)	3(2)	17(6)	13.3(4)	8.3(2)	0.5(2)	74.7(0)	45.7(0)	13(4)	2	32
21.40	1160.0	51(6)	10(6)	8(6)	21(6)	35.2(6)	19.4(4)	28.9(6)	15.8(6)	1.1(6)	14(4)	2	56
20.60	1161.0	45(6)	9(6)	7(6)	15(6)	35.0(6)	17.5(4)	37.1(6)	9.4(6)	0.3(6)	19(6)	2	58
13.10	1203.0	38(6)	10(6)	3(2)	15(6)	24.3(6)	1.6(0)	3.9(2)	68.7(0)	11.2(0)	13(4)	2	32
8.80	1713.0	29(4)	7(4)	8(6)	8(4)	26.6(6)	34.7(4)	30.6(6)	7.4(6)	0.5(6)	16(6)	2	52
3.40	1753.0	48(6)	8(6)	7(6)	16(6)	15.7(4)	7.8(2)	48.2(6)	27.6(2)	4.9(0)	14(4)	2	42
1.60	1754.0	21(2)	3(2)	2(2)	10(4)	0.7(2)	3.7(0)	0.0(0)	94.0(0)	11.5(0)	4(0)	2	12
SYCAMORE CREEK — 11-007													
Year: 93													
.20	24.0	38(6)	4(2)	2(4)	24(6)	10.5(2)	4.5(4)	24.0(4)	60.1(2)	17.1(2)	3(0)	2	32
.10	24.0	31(4)	3(2)	1(2)	19(4)	1.0(2)	0.1(2)	11.4(2)	81.4(0)	23.2(0)	7(2)	2	20
MUDDY CREEK — 11-020													
Year: 93													

Appendix Table A-9. Invertebrate Community Index (ICI) metrics and scores (by RM) for locations sampled in the Little Miami River study area, 1993, continued.

River Mile	Drainage Area (sq mi)	Number of: Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Percent: Mayflies	Caddis-flies	Tany-tarsini	Other Dipt/NI	Tolerant Taxa	Qual. EPT	Eco-region	ICI
2.50	9.0	36(4)	3(2)	4(6)	17(4)	0.1(2)	19.0(6)	14.8(4)	63.5(0)	9.1(4)	4(2)	2	34
TURTLE CREEK — 11-021													
Year: 93													
6.30	18.0	33(4)	5(4)	1(2)	20(6)	24.0(4)	0.3(2)	5.1(2)	70.2(0)	29.8(0)	5(2)	2	26
4.30	31.0	41(6)	5(4)	1(2)	23(6)	37.3(6)	0.5(2)	8.8(2)	51.4(2)	7.4(4)	6(2)	2	36
.60	58.0	29(4)	4(2)	0(0)	14(4)	30.5(6)	0.0(0)	2.8(2)	65.2(0)	16.0(2)	5(2)	2	22
.50	58.0	39(6)	4(2)	2(4)	27(6)	5.9(2)	1.9(2)	2.4(2)	88.8(0)	27.0(0)	5(2)	2	26
.10	58.0	32(4)	1(0)	1(2)	13(2)	0.2(2)	0.1(2)	0.6(2)	98.7(0)	38.2(0)	7(2)	2	16
DRY RUN — 11-022													
Year: 93													
1.80	5.0	15(2)	1(0)	0(0)	6(0)	0.1(2)	0.0(0)	2.9(2)	94.9(0)	36.7(0)	4(2)	2	8
GLADY RUN — 11-032													
Year: 93													
4.90	4.1	35(4)	2(0)	2(4)	22(6)	0.4(2)	3.9(6)	33.0(6)	61.4(2)	11.6(4)	6(2)	5	36
4.70	5.3	39(6)	2(0)	2(4)	26(6)	0.2(2)	0.1(2)	9.4(4)	86.6(0)	18.1(4)	2(0)	5	28
.30	14.0	37(4)	3(2)	0(0)	24(6)	1.0(2)	0.0(0)	31.1(6)	67.0(0)	20.8(2)	6(2)	5	24
BEAVER CREEK — 11-035													
Year: 93													
1.60	21.0	40(6)	3(2)	4(6)	22(6)	19.5(4)	6.6(6)	36.6(6)	35.2(4)	11.6(4)	8(4)	5	48
.50	46.3	40(6)	7(4)	4(6)	20(6)	5.9(2)	46.7(6)	26.7(4)	20.2(6)	6.6(4)	9(4)	5	48
.40	46.8	38(6)	2(0)	5(6)	20(6)	1.3(2)	2.5(2)	42.7(6)	52.9(2)	8.3(4)	5(2)	5	36
LITTLE BEAVER CREEK — 11-036													
Year: 93													
4.70	11.0	40(6)	7(6)	3(6)	19(4)	3.5(2)	5.2(6)	13.1(4)	77.8(0)	23.1(2)	9(4)	5	40
4.58	11.0	11(0)	0(0)	1(2)	6(0)	0.0(0)	0.3(2)	0.0(0)	99.7(0)	79.4(0)	0(0)	5	4
2.00	19.0	28(4)	1(0)	1(2)	21(6)	0.6(2)	0.1(2)	12.0(4)	87.0(0)	43.2(0)	1(0)	5	20
.10	25.8	33(4)	3(2)	3(6)	20(6)	0.2(2)	1.8(2)	60.3(6)	37.0(4)	10.2(4)	6(2)	5	38
YELLOW SPRINGS CREEK — 11-040													
Year: 93													
.50	11.1	32(4)	5(4)	4(6)	19(4)	7.4(2)	1.2(4)	60.1(6)	30.8(4)	5.7(6)	11(6)	2	46
.44	11.1	39(6)	7(6)	2(4)	25(6)	13.5(4)	1.2(4)	5.9(2)	78.9(0)	32.1(0)	9(4)	2	36
.30	11.2	50(6)	7(6)	2(4)	30(6)	21.6(4)	0.7(2)	19.1(6)	56.9(2)	11.7(4)	12(6)	2	46
E.FK. LITTLE MIAMI R — 11-100													
Year: 93													
15.50	359.0	42(6)	6(4)	9(6)	21(6)	41.2(6)	20.6(4)	19.3(4)	17.5(6)	1.7(6)	21(6)	2	54
13.30	366.0	30(4)	5(2)	8(6)	10(2)	17.4(4)	25.3(4)	41.1(6)	15.7(6)	0.1(6)	20(6)	2	46

Appendix Table A-9. Invertebrate Community Index (ICI) metrics and scores (by RM) for locations sampled in the Little Miami River study area, 1993, continued.

River Mile	Drainage Area (sq mi)	Number of: Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Percent: Mayflies	Caddisflies	Tanytarsini	Other Dipt/NI	Tolerant Taxa	Qual. EPT	Eco-region	ICI
12.70	367.0	51(6)	6(4)	9(6)	21(6)	38.0(6)	28.9(6)	14.2(2)	16.7(6)	0.5(6)	24(6)	2	54
9.20	380.0	42(6)	7(4)	7(6)	16(6)	23.2(4)	39.0(6)	29.3(4)	8.1(6)	0.0(6)	19(6)	2	54
6.70	471.0	62(6)	7(4)	11(6)	26(6)	23.9(4)	23.1(4)	9.0(2)	41.4(2)	2.4(6)	17(6)	2	46
4.70	490.0	44(6)	4(2)	7(6)	22(6)	17.1(4)	17.8(4)	34.9(6)	28.9(4)	8.3(0)	18(6)	2	44
1.90	495.0	53(6)	7(4)	8(6)	24(6)	23.2(4)	17.5(4)	29.5(4)	28.9(4)	1.8(6)	14(4)	2	48
.80	498.0	39(6)	7(4)	9(6)	14(4)	15.0(4)	25.3(4)	40.2(6)	18.8(6)	0.7(6)	13(4)	2	50
STONELICK CREEK — 11-107													
Year: 93													
17.70	11.0	29(4)	5(4)	0(0)	15(4)	29.1(6)	0.0(0)	7.3(2)	61.8(2)	27.2(0)	5(2)	2	24
2.90	71.0	29(4)	6(4)	2(4)	14(4)	19.5(4)	1.0(2)	3.0(2)	76.0(0)	8.0(4)	12(4)	2	32
1.00	76.0	27(4)	7(4)	1(2)	13(2)	38.2(6)	0.1(2)	4.4(2)	56.9(2)	2.5(6)	17(6)	2	36
CAESAR CREEK — 11-300													
Year: 93													
16.50	87.0	27(4)	5(2)	0(0)	16(4)	11.8(2)	0.0(0)	29.1(4)	56.0(2)	26.9(0)	15(6)	5	24
ANDERSON FORK — 11-306													
Year: 93													
5.00	77.0	37(4)	7(4)	0(0)	21(6)	37.6(6)	0.0(0)	11.1(2)	48.5(2)	13.1(2)	11(4)	5	30
OLDTOWN CREEK — 11-401													
Year: 93													
.40	9.3	35(4)	4(2)	4(6)	19(4)	14.6(4)	0.4(2)	27.9(6)	56.4(2)	18.9(2)	13(6)	5	38

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993.

Collection Date: 08/31/93 River Code: 11-001 River: Little Miami River RM: 101.50

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
02600	*Nematomorpha*	0 +
04680	*Placobdella sp*	0 +
04935	*Erpobdella punctata punctata*	0 +
04964	*Mooreobdella microstoma*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
08601	*Hydracarina*	0 +
11020	*Acerpenna pygmaeus*	0 +
11130	*Baetis intercalaris*	0 +
11200	*Callibaetis sp*	0 +
11700	*Baetidae (formerly in Pseudocloeon)*	0 +
13400	*Stenacron sp*	0 +
13561	*Stenonema pulchellum*	0 +
17200	*Caenis sp*	0 +
21200	*Calopteryx sp*	0 +
22001	*Coenagrionidae*	0 +
23909	*Boyeria vinosa*	0 +
25300	*Sigara sp*	0 +
27600	*Sialis sp*	0 +
30301	*Chimarra aterrima*	0 +
30315	*Chimarra obscura*	0 +
32200	*Cheumatopsyche sp*	0 +
32430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
32530	*Hydropsyche (H.) depravata group*	0 +
38505	*Helicopsyche borealis*	0 +
40900	*Peltodytes sp*	0 +
43900	*Laccophilus sp*	0 +
48025	*Ectopria nervosa*	0 +
48075	*Psephenus herricki*	0 +
48201	*Scirtidae*	0 +
48601	*Ancyronyx variegata*	0 +
48702	*Dubiraphia bivittata*	0 +
48707	*Dubiraphia quadrinotata*	0 +
48708	*Dubiraphia vittata group*	0 +
49400	*Stenelmis sp*	0 +
57500	*Conchapelopia sp*	0 +
62820	*Cryptochironomus sp*	0 +
63820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
84210	*Paratendipes albimanus or P. duplicatus*	0 +
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84700	*Stenochironomus sp*	0 +
85625	*Rheotanytarsus exiguus group*	0 +
85800	*Tanytarsus sp*	0 +
85814	*Tanytarsus glabrescens group*	0 +
93900	*Elimia sp*	0 +
95100	*Physella sp*	0 +
96002	*Helisoma anceps anceps*	0 +
98200	*Pisidium sp*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 0 Total Taxa: 53

No. Qualitative Taxa: 53 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-001 River: Little Miami River RM: 98.80

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	32
01418	*Craspedacusta sowerbyi*	1 +
01801	*Turbellaria*	2 +
03360	*Plumatella sp*	1 +
03600	*Oligochaeta*	44 +
05800	*Caecidotea sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08601	*Hydracarina*	0 +
11020	*Acerpenna pygmaeus*	15 +
11120	*Baetis flavistriga*	0 +
11130	*Baetis intercalaris*	0 +
11200	*Callibaetis sp*	0 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	2
13400	*Stenacron sp*	128 +
13561	*Stenonema pulchellum*	62 +
16700	*Tricorythodes sp*	4 +
17200	*Caenis sp*	563 +
21200	*Calopteryx sp*	12 +
22001	*Coenagrionidae*	10 +
22300	*Argia sp*	249 +
23909	*Boyeria vinosa*	0 +
45100	*Palmacorixa sp*	0 +
47600	*Sialis sp*	0 +
50315	*Chimarra obscura*	0 +
52200	*Cheumatopsyche sp*	7 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
52530	*Hydropsyche (H.) depravata group*	0 +
57400	*Neophylax sp*	0 +
59001	*Leptoceridae*	4
65800	*Berosus sp*	2 +
67700	*Paracymus sp*	0 +
68025	*Ectopria nervosa*	0 +
68075	*Psephenus herricki*	0 +
68601	*Ancyronyx variegata*	0 +
68700	*Dubiraphia sp*	4
68702	*Dubiraphia bivittata*	0 +
68707	*Dubiraphia quadrinotata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	12
69225	*Optioservus fastiditus*	0 +
69400	*Stenelmis sp*	2 +
71000	*Helius sp*	0 +
77120	*Ablabesmyia mallochi*	105 +
77150	*Ablabesmyia simpsoni*	0 +
77800	*Helopelopia sp*	158 +
78140	*Labrundinia pilosella*	26
78450	*Nilotanypus fimbriatus*	53
78650	*Procladius sp*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	0 +
80370	*Corynoneura lobata*	8 +
80420	*Cricotopus (C.) bicinctus*	0 +
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	105
81250	*Nanocladius (N.) minimus*	26
82101	*Thienemanniella n.sp 1*	4
82820	*Cryptochironomus sp*	0 +
82880	*Cryptotendipes sp*	26
83040	*Dicrotendipes neomodestus*	26 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
84020	*Parachironomus carinatus*	184 +
84060	*Parachironomus pectinatellae*	0 +
84210	*Paratendipes albimanus or P. duplicatus*	26
84300	*Phaenopsectra obediens group*	0 +
84315	*Phaenopsectra flavipes*	26
84450	*Polypedilum (P.) convictum*	0 +
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	105
84750	*Stictochironomus sp*	0 +
85500	*Paratanytarsus sp*	105 +
85625	*Rheotanytarsus exiguus group*	920 +
85720	*Stempellinella n.sp nr. flavidula*	26
85800	*Tanytarsus sp*	26 +
85802	*Tanytarsus curticornis group*	368
85814	*Tanytarsus glabrescens group*	263 +
86100	*Chrysops sp*	0 +
87501	*Empididae*	44 +
96801	*Ancylidae*	0 +

No. Quantitative Taxa:	41	Total Taxa:	78
No. Qualitative Taxa:	62	ICI:	50

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 89.20

Taxa Code	Taxa	Quan/Qual
00401	*Spongillidae*	0 +
01801	*Turbellaria*	0 +
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11120	*Baetis flavistriga*	0 +
11130	*Baetis intercalaris*	0 +
11400	*Baetidae (formerly in Cloeon)*	0 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	0 +
13510	*Stenonema exiguum*	0 +
13521	*Stenonema femoratum*	0 +
13561	*Stenonema pulchellum*	0 +
17200	*Caenis sp*	0 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	0 +
45400	*Trichocorixa sp*	0 +
60301	*Chimarra aterrima*	0 +
60315	*Chimarra obscura*	0 +
62200	*Cheumatopsyche sp*	0 +
62430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
62450	*Hydropsyche (Ceratopsyche) sparna*	0 +
62530	*Hydropsyche (H.) depravata group*	0 +
64160	*Ochrotrichia sp*	0 +
67400	*Neophylax sp*	0 +
67900	*Pycnopsyche sp*	0 +
80400	*Gyrinus sp*	0 +
80900	*Peltodytes sp*	0 +
83300	*Hydroporus sp*	0 +
87500	*Laccobius sp*	0 +
87700	*Paracymus sp*	0 +
88025	*Ectopria nervosa*	0 +
88075	*Psephenus herricki*	0 +
88702	*Dubiraphia bivittata*	0 +
88708	*Dubiraphia vittata group*	0 +
89400	*Stenelmis sp*	0 +
92700	*Anopheles sp*	0 +
94100	*Simulium sp*	0 +
74501	*Ceratopogonidae*	0 +
77800	*Helopelopia sp*	0 +
78650	*Procladius sp*	0 +
79020	*Tanypus neopunctipennis*	0 +
80310	*Cardiocladius obscurus*	0 +
81632	*Parakiefferiella n.sp 2*	0 +
82220	*Tvetenia discoloripes group*	0 +
82820	*Cryptochironomus sp*	0 +
82880	*Cryptotendipes sp*	0 +
83040	*Dicrotendipes neomodestus*	0 +
84210	*Paratendipes albimanus or P. duplicatus*	0 +
84300	*Phaenopsectra obediens group*	0 +
84450	*Polypedilum (P.) convictum*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84800	*Tribelos jucundum*	0 +
85625	*Rheotanytarsus exiguus group*	0 +
93900	*Elimia sp*	0 +
97601	*Corbicula fluminea*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 0 Total Taxa: 61

No. Qualitative Taxa: 61 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/03/93 River Code: 11-001 River: Little Miami River RM: 85.30

Taxa Code	Taxa	Quan/Qual
03600	*Oligochaeta*	40
05900	*Lirceus sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11020	*Acerpenna pygmaeus*	28
12200	*Isonychia sp*	533 +
13000	*Leucrocuta sp*	2
13400	*Stenacron sp*	137 +
13521	*Stenonema femoratum*	2 +
13561	*Stenonema pulchellum*	286 +
17200	*Caenis sp*	52 +
18600	*Ephemera sp*	14 +
21200	*Calopteryx sp*	0 +
24900	*Gomphus sp*	0 +
45100	*Palmacorixa sp*	0 +
47600	*Sialis sp*	0 +
48620	*Nigronia serricornis*	1 +
50804	*Lype diversa*	10 +
52200	*Cheumatopsyche sp*	12 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	36 +
52530	*Hydropsyche (H.) depravata group*	1 +
57400	*Neophylax sp*	0 +
57900	*Pycnopsyche sp*	0 +
67500	*Laccobius sp*	0 +
68075	*Psephenus herricki*	1 +
68901	*Macronychus glabratus*	8 +
69400	*Stenelmis sp*	1 +
70600	*Antocha sp*	0 +
74100	*Simulium sp*	0 +
74501	*Ceratopogonidae*	0 +
77120	*Ablabesmyia mallochi*	18
77500	*Conchapelopia sp*	0 +
80204	*Brillia flavifrons group*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	8
80370	*Corynoneura lobata*	104
80410	*Cricotopus (C.) sp*	54
80420	*Cricotopus (C.) bicinctus*	72 +
80430	*Cricotopus (C.) tremulus group*	0 +
81465	*Orthocladius (O.) carlatus*	36
82141	*Thienemanniella xena*	160
82710	*Chironomus (C.) sp*	18
83040	*Dicrotendipes neomodestus*	72
83840	*Microtendipes pedellus group*	18 +
84300	*Phaenopsectra obediens group*	18 +
84460	*Polypedilum (P.) fallax group*	54
84470	*Polypedilum (P.) illinoense*	18 +
84475	*Polypedilum (P.) ophioides*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84750	*Stictochironomus sp*	0 +
85615	*Rheotanytarsus distinctissimus group*	18
85625	*Rheotanytarsus exiguus group*	519 +
85720	*Stempellinella n.sp nr. flavidula*	18
85752	*Sublettea coffmani*	250
85800	*Tanytarsus sp*	36
85814	*Tanytarsus glabrescens group*	54 +
85840	*Tanytarsus guerlus group*	18
87501	*Empididae*	32
93900	*Elimia sp*	1 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	26

No. Quantitative Taxa:	40	Total Taxa:	59
No. Qualitative Taxa:	40	ICI:	46

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/03/93 River Code: 11-001 River: Little Miami River RM: 83.10

Taxa Code	Taxa	Quan/Qual
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	16 +
05900	*Lirceus sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	1 +
11020	*Acerpenna pygmaeus*	50
11120	*Baetis flavistriga*	73 +
11130	*Baetis intercalaris*	98 +
11300	*Baetidae (formerly in Centroptilum)*	0 +
11400	*Baetidae (formerly in Cloeon)*	0 +
11430	*Diphetor hageni*	2
12200	*Isonychia sp*	357 +
13000	*Leucrocuta sp*	4
13400	*Stenacron sp*	2 +
13521	*Stenonema femoratum*	0 +
13561	*Stenonema pulchellum*	170 +
16700	*Tricorythodes sp*	0 +
17200	*Caenis sp*	41 +
18600	*Ephemera sp*	0 +
21200	*Calopteryx sp*	0 +
23909	*Boyeria vinosa*	1 +
25400	*Trichocorixa sp*	0 +
27600	*Sialis sp*	0 +
28410	*Corydalus cornutus*	1
30301	*Chimarra aterrima*	1
30804	*Lype diversa*	0 +
32200	*Cheumatopsyche sp*	105 +
32430	*Hydropsyche (Ceratopsyche) morosa group*	411 +
32450	*Hydropsyche (Ceratopsyche) sparna*	0 +
32530	*Hydropsyche (H.) depravata group*	6 +
37400	*Neophylax sp*	0 +
37900	*Pycnopsyche sp*	0 +
38075	*Psephenus herricki*	0 +
38130	*Helichus sp*	0 +
38601	*Ancyronyx variegata*	1
38708	*Dubiraphia vittata group*	0 +
38901	*Macronychus glabratus*	16
39400	*Stenelmis sp*	1 +
41100	*Simulium sp*	17 +
44673	*Atrichopogon websteri*	0 +
47120	*Ablabesmyia mallochi*	0 +
48450	*Nilotanypus fimbriatus*	16
49100	*Thienemannimyia group*	31

Taxa Code	Taxa	Quan/Qual
80351	*Corynoneura n.sp 1*	8
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	24
80370	*Corynoneura lobata*	48 +
80420	*Cricotopus (C.) bicinctus*	31
82101	*Thienemanniella n.sp 1*	31
82141	*Thienemanniella xena*	880 +
82200	*Tvetenia bavarica group*	31
82220	*Tvetenia discoloripes group*	125 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	0 +
84450	*Polypedilum (P.) convictum*	313 +
84460	*Polypedilum (P.) fallax group*	31 +
84470	*Polypedilum (P.) illinoense*	0 +
84480	*Polypedilum (P.) n.sp. same as tuberculum (Maschwitz, 1976)*	0 +
85625	*Rheotanytarsus exiguus group*	2068 +
85752	*Sublettea coffmani*	313 +
85814	*Tanytarsus glabrescens group*	31 +
86100	*Chrysops sp*	0 +
87501	*Empididae*	33
89716	*Limnophora discreta*	0 +
93900	*Elimia sp*	0 +
96900	*Ferrissia sp*	17
97601	*Corbicula fluminea*	0 +
98200	*Pisidium sp*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa:	38	Total Taxa:	67
No. Qualitative Taxa:	51	ICI:	48

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/03/93 River Code: 11-001 River: Little Miami River RM: 80.60

Taxa Code	Taxa	Quan/Qual
00401	*Spongillidae*	0 +
01320	*Hydra sp*	8
03600	*Oligochaeta*	32
05900	*Lirceus sp*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11020	*Acerpenna pygmaeus*	1
11120	*Baetis flavistriga*	26 +
11130	*Baetis intercalaris*	83 +
11200	*Callibaetis sp*	0 +
11400	*Baetidae (formerly in Cloeon)*	0 +
12200	*Isonychia sp*	813 +
13000	*Leucrocuta sp*	6
13400	*Stenacron sp*	87 +
13561	*Stenonema pulchellum*	567 +
16700	*Tricorythodes sp*	2 +
17200	*Caenis sp*	21 +
18600	*Ephemera sp*	2 +
21200	*Calopteryx sp*	0 +
22300	*Argia sp*	1 +
23909	*Boyeria vinosa*	0 +
33100	*Leuctra sp*	0 +
45100	*Palmacorixa sp*	0 +
45300	*Sigara sp*	0 +
45400	*Trichocorixa sp*	0 +
47600	*Sialis sp*	0 +
48410	*Corydalus cornutus*	2 +
48620	*Nigronia serricornis*	0 +
50804	*Lype diversa*	17 +
51300	*Neureclipsis sp*	0 +
52200	*Cheumatopsyche sp*	134 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	335 +
52530	*Hydropsyche (H.) depravata group*	2 +
57400	*Neophylax sp*	0 +
57900	*Pycnopsyche sp*	0 +
68075	*Psephenus herricki*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	5 +
69400	*Stenelmis sp*	1 +
71910	*Tipula abdominalis*	0 +
74100	*Simulium sp*	9
78650	*Procladius sp*	0 +
80204	*Brillia flavifrons group*	45
80370	*Corynoneura lobata*	48
80410	*Cricotopus (C.) sp*	45
80420	*Cricotopus (C.) bicinctus*	227
81825	*Rheocricotopus (Psilocricotopus) robacki*	45
82141	*Thienemanniella xena*	320
82220	*Tvetenia discoloripes group*	0 +
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
84300	*Phaenopsectra obediens group*	0 +
84450	*Polypedilum (P.) convictum*	136 +
84460	*Polypedilum (P.) fallax group*	227
84470	*Polypedilum (P.) illinoense*	0 +
84475	*Polypedilum (P.) ophioides*	0 +
85500	*Paratanytarsus sp*	45
85625	*Rheotanytarsus exiguus group*	3862 +
85752	*Sublettea coffmani*	91 +
85814	*Tanytarsus glabrescens group*	91
86100	*Chrysops sp*	0 +
87501	*Empididae*	58
93200	*Hydrobiidae*	0 +
96900	*Ferrissia sp*	44

No. Quantitative Taxa:	35	Total Taxa:	64
No. Qualitative Taxa:	48	ICI:	46

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/03/93 River Code: 11-001 River: Little Miami River RM: 77.00

Taxa Code	Taxa	Quan/Qual
00401	*Spongillidae*	0 +
01801	*Turbellaria*	0 +
03600	*Oligochaeta*	0 +
04685	*Placobdella ornata*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11300	*Baetidae (formerly in Centroptilum)*	0 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	0 +
13510	*Stenonema exiguum*	0 +
16700	*Tricorythodes sp*	0 +
17200	*Caenis sp*	0 +
18600	*Ephemera sp*	0 +
21200	*Calopteryx sp*	0 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	0 +
23909	*Boyeria vinosa*	0 +
24900	*Gomphus sp*	0 +
25100	*Palmacorixa sp*	0 +
27600	*Sialis sp*	0 +
30804	*Lype diversa*	0 +
32200	*Cheumatopsyche sp*	0 +
33501	*Hydroptilidae*	0 +
39410	*Nectopsyche diarina*	0 +
40900	*Peltodytes sp*	0 +
48075	*Psephenus herricki*	0 +
48130	*Helichus sp*	0 +
48601	*Ancyronyx variegata*	0 +
48708	*Dubiraphia vittata group*	0 +
48901	*Macronychus glabratus*	0 +
49400	*Stenelmis sp*	0 +
50600	*Antocha sp*	0 +
51500	*Ormosia sp*	0 +
52160	*Psychoda sp*	0 +
54501	*Ceratopogonidae*	0 +
57120	*Ablabesmyia mallochi*	0 +
80410	*Cricotopus (C.) sp*	0 +
80420	*Cricotopus (C.) bicinctus*	0 +
81632	*Parakiefferiella n.sp 2*	0 +
82101	*Thienemanniella n.sp 1*	0 +
82730	*Chironomus (C.) decorus group*	0 +
82770	*Chironomus (C.) riparius group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	0 +
84470	*Polypedilum (P.) illinoense*	0 +
84475	*Polypedilum (P.) ophioides*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
85261	*Cladotanytarsus vanderwulpi group Type 1*	0 +
85500	*Paratanytarsus sp*	0 +
85625	*Rheotanytarsus exiguus group*	0 +
85752	*Sublettea coffmani*	0 +
93900	*Elimia sp*	0 +
96900	*Ferrissia sp*	0 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa: 0 Total Taxa: 54

No. Qualitative Taxa: 54 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/03/93 River Code: 11-001 River: Little Miami River RM: 76.70

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03600	*Oligochaeta*	112
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	1 +
08601	*Hydracarina*	32
11120	*Baetis flavistriga*	2
11130	*Baetis intercalaris*	239
11300	*Baetidae (formerly in Centroptilum)*	0 +
12200	*Isonychia sp*	773 +
13000	*Leucrocuta sp*	6
13400	*Stenacron sp*	133 +
13561	*Stenonema pulchellum*	639 +
13570	*Stenonema terminatum*	0 +
16700	*Tricorythodes sp*	9 +
17200	*Caenis sp*	56 +
18600	*Ephemera sp*	2 +
21200	*Calopteryx sp*	0 +
22300	*Argia sp*	1 +
23909	*Boyeria vinosa*	0 +
24900	*Gomphus sp*	0 +
45400	*Trichocorixa sp*	0 +
48410	*Corydalus cornutus*	3
50804	*Lype diversa*	16
50906	*Psychomyia flavida*	0 +
52200	*Cheumatopsyche sp*	481 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	647 +
52530	*Hydropsyche (H.) depravata group*	55 +
53800	*Hydroptila sp*	0 +
57400	*Neophylax sp*	0 +
57900	*Pycnopsyche sp*	0 +
68025	*Ectopria nervosa*	0 +
68601	*Ancyronyx variegata*	2
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	5 +
69400	*Stenelmis sp*	2 +
70900	*Gonomyia sp*	0 +
77750	*Hayesomyia senata or Thienemanniomyia norena*	106
77800	*Helopelopia sp*	106
78450	*Nilotanypus fimbriatus*	32
80204	*Brillia flavifrons group*	106
80420	*Cricotopus (C.) bicinctus*	106
81229	*Nanocladius (N.) crassicornus*	212
81250	*Nanocladius (N.) minimus*	106
81825	*Rheocricotopus (Psilocricotopus) robacki*	106
82141	*Thienemanniella xena*	576
82730	*Chironomus (C.) decorus group*	0 +
84450	*Polypedilum (P.) convictum*	212
85625	*Rheotanytarsus exiguus group*	9020
85720	*Stempellinella n.sp nr. flavidula*	106
85752	*Sublettea coffmani*	212
87501	*Empididae*	35
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	20 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa:	36	Total Taxa:	54
No. Qualitative Taxa:	32	ICI:	44

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/03/93 River Code: 11-001 River: Little Miami River RM: 74.60

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03040	*Fredericella sp*	0 +
03600	*Oligochaeta*	0 +
05900	*Lirceus sp*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	0 +
11200	*Callibaetis sp*	0 +
11300	*Baetidae (formerly in Centroptilum)*	0 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	0 +
13561	*Stenonema pulchellum*	0 +
13570	*Stenonema terminatum*	0 +
16700	*Tricorythodes sp*	0 +
17200	*Caenis sp*	0 +
18100	*Anthopotamus sp*	0 +
18600	*Ephemera sp*	0 +
21200	*Calopteryx sp*	0 +
22300	*Argia sp*	0 +
23909	*Boyeria vinosa*	0 +
35400	*Trichocorixa sp*	0 +
37600	*Sialis sp*	0 +
38410	*Corydalus cornutus*	0 +
50906	*Psychomyia flavida*	0 +
52200	*Cheumatopsyche sp*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
52530	*Hydropsyche (H.) depravata group*	0 +
54160	*Ochrotrichia sp*	0 +
57400	*Neophylax sp*	0 +
57500	*Laccobius sp*	0 +
58130	*Helichus sp*	0 +
58201	*Scirtidae*	0 +
58601	*Ancyronyx variegata*	0 +
58702	*Dubiraphia bivittata*	0 +
58708	*Dubiraphia vittata group*	0 +
58901	*Macronychus glabratus*	0 +
59400	*Stenelmis sp*	0 +
74100	*Simulium sp*	0 +
77120	*Ablabesmyia mallochi*	0 +
77500	*Conchapelopia sp*	0 +
80310	*Cardiocladius obscurus*	0 +
80410	*Cricotopus (C.) sp*	0 +
82141	*Thienemanniella xena*	0 +
82730	*Chironomus (C.) decorus group*	0 +
83410	*Harnischia curtilamellata*	0 +
84300	*Phaenopsectra obediens group*	0 +
84450	*Polypedilum (P.) convictum*	0 +
84470	*Polypedilum (P.) illinoense*	0 +
85625	*Rheotanytarsus exiguus group*	0 +
85800	*Tanytarsus sp*	0 +
86100	*Chrysops sp*	0 +
93900	*Elimia sp*	0 +
94400	*Fossaria sp*	0 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	0 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa: 0 Total Taxa: 57

No. Qualitative Taxa: 57 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-001 River: Little Miami River RM: 72.30

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	32
01801	*Turbellaria*	1 +
03600	*Oligochaeta*	96 +
04964	*Mooreobdella microstoma*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
08601	*Hydracarina*	80
11120	*Baetis flavistriga*	5 +
11130	*Baetis intercalaris*	947 +
11430	*Diphetor hageni*	1
11700	*Baetidae (formerly in Pseudocloeon)*	0 +
12200	*Isonychia sp*	181 +
13000	*Leucrocuta sp*	3
13400	*Stenacron sp*	186 +
13510	*Stenonema exiguum*	16
13521	*Stenonema femoratum*	4
13550	*Stenonema mexicanum integrum*	1
13561	*Stenonema pulchellum*	275 +
13570	*Stenonema terminatum*	73 +
16700	*Tricorythodes sp*	43 +
17200	*Caenis sp*	19
21200	*Calopteryx sp*	8 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	5
23909	*Boyeria vinosa*	0 +
50804	*Lype diversa*	1
51600	*Polycentropus sp*	2
52200	*Cheumatopsyche sp*	127 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	1716 +
52520	*Hydropsyche (H.) bidens*	31
52530	*Hydropsyche (H.) depravata group*	18 +
53800	*Hydroptila sp*	33 +
57900	*Pycnopsyche sp*	0 +
65800	*Berosus sp*	0 +
68601	*Ancyronyx variegata*	0 +
68707	*Dubiraphia quadrinotata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	12 +
69400	*Stenelmis sp*	0 +
71900	*Tipula sp*	0 +
74100	*Simulium sp*	17 +
78450	*Nilotanypus fimbriatus*	16
79100	*Thienemannimyia group*	79
80370	*Corynoneura lobata*	112
80420	*Cricotopus (C.) bicinctus*	238 +
80430	*Cricotopus (C.) tremulus group*	79 +
81825	*Rheocricotopus (Psilocricotopus) robacki*	0 +
82101	*Thienemanniella n.sp 1*	16
82141	*Thienemanniella xena*	384
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83003	*Dicrotendipes fumidus*	0 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
84315	*Phaenopsectra flavipes*	0 +
84450	*Polypedilum (P.) convictum*	79 +
84470	*Polypedilum (P.) illinoense*	0 +
84475	*Polypedilum (P.) ophioides*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84750	*Stictochironomus sp*	0 +
85261	*Cladotanytarsus vanderwulpi group Type 1*	0 +
85500	*Paratanytarsus sp*	79 +
85615	*Rheotanytarsus distinctissimus group*	159
85625	*Rheotanytarsus exiguus group*	7385 +
85752	*Sublettea coffmani*	79
85800	*Tanytarsus sp*	0 +
85814	*Tanytarsus glabrescens group*	238 +
85840	*Tanytarsus guerlus group*	159 +
87501	*Empididae*	49
93900	*Elimia sp*	7 +
95100	*Physella sp*	1 +
96900	*Ferrissia sp*	20 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa: 46 Total Taxa: 74

No. Qualitative Taxa: 54 ICI: 52

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-001 River: Little Miami River RM: 65.60

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	112
01801	*Turbellaria*	0 +
03600	*Oligochaeta*	16 +
04964	*Mooreobdella microstoma*	0 +
05900	*Lirceus sp*	1
08250	*Orconectes (Procericambarus) rusticus*	0 +
11120	*Baetis flavistriga*	0 +
11130	*Baetis intercalaris*	465 +
11300	*Baetidae (formerly in Centroptilum)*	0 +
12200	*Isonychia sp*	85 +
13000	*Leucrocuta sp*	11 +
13400	*Stenacron sp*	317 +
13510	*Stenonema exiguum*	867 +
13521	*Stenonema femoratum*	11
13561	*Stenonema pulchellum*	0 +
13570	*Stenonema terminatum*	32
16700	*Tricorythodes sp*	197 +
17200	*Caenis sp*	16 +
21200	*Calopteryx sp*	2 +
21300	*Hetaerina sp*	1
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	8 +
23909	*Boyeria vinosa*	0 +
24900	*Gomphus sp*	0 +
26700	*Macromia sp*	0 +
45100	*Palmacorixa sp*	0 +
50804	*Lype diversa*	16
51300	*Neureclipsis sp*	3
52200	*Chewnatopsyche sp*	255 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	75 +
52530	*Hydropsyche (H.) depravata group*	0 +
52570	*Hydropsyche (H.) simulans*	2
53800	*Hydroptila sp*	143 +
57900	*Pycnopsyche sp*	0 +
59410	*Nectopsyche diarina*	0 +
68075	*Psephenus herricki*	0 +
68130	*Helichus sp*	0 +
68601	*Ancyronyx variegata*	0 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	4 +
69400	*Stenelmis sp*	0 +
80310	*Cardiocladius obscurus*	0 +
80370	*Corynoneura lobata*	16
80410	*Cricotopus (C.) sp*	0 +
80420	*Cricotopus (C.) bicinctus*	44 +
80430	*Cricotopus (C.) tremulus group*	0 +
81690	*Paratrichocladius sp*	44
82141	*Thienemanniella xena*	197
82220	*Tvetenia discoloripes group*	0 +
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	44 +
84116	*Paracladopelma nereis*	0 +
84300	*Phaenopsectra obediens group*	0 +
84450	*Polypedilum (P.) convictum*	133 +
84460	*Polypedilum (P.) fallax group*	222
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84750	*Stictochironomus sp*	0 +
85261	*Cladotanytarsus vanderwulpi group Type I*	0 +
85625	*Rheotanytarsus exiguus group*	4138 +
85814	*Tanytarsus glabrescens group*	44 +
93900	*Elimia sp*	0 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	4 +
97601	*Corbicula fluminea*	6 +

No. Quantitative Taxa:	33	Total Taxa:	67
No. Qualitative Taxa:	55	ICI:	44

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/30/93 River Code: 11-001 River: Little Miami River RM: 64.40

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03600	*Oligochaeta*	896 +
11020	*Acerpenna pygmaeus*	1
11120	*Baetis flavistriga*	2
11130	*Baetis intercalaris*	180 +
11200	*Callibaetis sp*	0 +
12200	*Isonychia sp*	4 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	4 +
13510	*Stenonema exiguum*	49 +
13521	*Stenonema femoratum*	0 +
13570	*Stenonema terminatum*	0 +
16700	*Tricorythodes sp*	322 +
17200	*Caenis sp*	1
21200	*Calopteryx sp*	1
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	2
45100	*Palmacorixa sp*	0 +
48410	*Corydalus cornutus*	1
51300	*Neureclipsis sp*	1
52200	*Cheumatopsyche sp*	120 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	136 +
52520	*Hydropsyche (H.) bidens*	1
52530	*Hydropsyche (H.) depravata group*	3
52540	*Hydropsyche (H.) dicantha*	1 +
52570	*Hydropsyche (H.) simulans*	3
57900	*Pycnopsyche sp*	0 +
68075	*Psephenus herricki*	0 +
68601	*Ancyronyx variegata*	1
68901	*Macronychus glabratus*	19
69200	*Optioservus sp*	0 +
69400	*Stenelmis sp*	1 +
74100	*Simulium sp*	1 +
77120	*Ablabesmyia mallochi*	53 +
77500	*Conchapelopia sp*	53 +
77750	*Hayesomyia senata or Thienemannimyia norena*	0 +
80204	*Brillia flavifrons group*	106
80310	*Cardiocladius obscurus*	0 +
80410	*Cricotopus (C.) sp*	212
80420	*Cricotopus (C.) bicinctus*	264 +
80430	*Cricotopus (C.) tremulus group*	264 +
80510	*Cricotopus (Isocladius) sylvestris group*	53
81690	*Paratrichocladius sp*	53
81825	*Rheocricotopus (Psilocricotopus) robacki*	53 +
82130	*Thienemanniella similis*	8
82141	*Thienemanniella xena*	640 +
82730	*Chironomus (C.) decorus group*	0 +
82770	*Chironomus (C.) riparius group*	212 +
83003	*Dicrotendipes fumidus*	106 +
84300	*Phaenopsectra obediens group*	0 +
84450	*Polypedilum (P.) convictum*	212 +
84460	*Polypedilum (P.) fallax group*	264 +
84470	*Polypedilum (P.) illinoense*	106 +
84540	*Polypedilum (Tripodura) scalaenum group*	53
84750	*Stictochironomus sp*	0 +
85500	*Paratanytarsus sp*	53
85625	*Rheotanytarsus exiguus group*	3014 +
85752	*Sublettea coffmani*	0 +
85802	*Tanytarsus curticornis group*	53
85814	*Tanytarsus glabrescens group*	317 +
85840	*Tanytarsus guerlus group*	53
87501	*Empididae*	35 +
93900	*Elimia sp*	0 +
96900	*Ferrissia sp*	16 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa:	47	Total Taxa:	65
No. Qualitative Taxa:	44	ICI:	38

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/30/93 River Code: 11-001 River: Little Miami River RM: 64.20

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	16
03600	*Oligochaeta*	144
08250	*Orconectes (Procericambarus) rusticus*	0 +
11020	*Acerpenna pygmaeus*	16
11130	*Baetis intercalaris*	434 +
11200	*Callibaetis sp*	0 +
12200	*Isonychia sp*	101 +
13000	*Leucrocuta sp*	15 +
13400	*Stenacron sp*	113 +
13510	*Stenonema exiguum*	476 +
13521	*Stenonema femoratum*	23
13561	*Stenonema pulchellum*	8
13570	*Stenonema terminatum*	38 +
16700	*Tricorythodes sp*	541 +
21200	*Calopteryx sp*	0 +
21300	*Hetaerina sp*	0 +
22300	*Argia sp*	8 +
22200	*Chewnatopsyche sp*	270 +
22430	*Hydropsyche (Ceratopsyche) morosa group*	299 +
22530	*Hydropsyche (H.) depravata group*	2
23800	*Hydroptila sp*	28 +
30900	*Peltodytes sp*	0 +
38130	*Helichus sp*	0 +
38601	*Ancyronyx variegata*	10 +
38702	*Dubiraphia bivittata*	1 +
38708	*Dubiraphia vittata group*	0 +
38901	*Macronychus glabratus*	3 +
39400	*Stenelmis sp*	17 +
47120	*Ablabesmyia mallochi*	0 +
48140	*Labrundinia pilosella*	35
48450	*Nilotanypus fimbriatus*	8
50370	*Corynoneura lobata*	56
50430	*Cricotopus (C.) tremulus group*	104
50510	*Cricotopus (Isocladius) sylvestris group*	0 +
51825	*Rheocricotopus (Psilocricotopus) robacki*	35
52101	*Thienemanniella n.sp 1*	24
52141	*Thienemanniella xena*	184
52730	*Chironomus (C.) decorus group*	0 +
52820	*Cryptochironomus sp*	0 +
53002	*Dicrotendipes modestus*	0 +
53040	*Dicrotendipes neomodestus*	69 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
84300	*Phaenopsectra obediens group*	0 +
84315	*Phaenopsectra flavipes*	0 +
84450	*Polypedilum (P.) convictum*	173 +
84460	*Polypedilum (P.) fallax group*	35
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84750	*Stictochironomus sp*	0 +
85261	*Cladotanytarsus vanderwulpi group Type 1*	0 +
85500	*Paratanytarsus sp*	35
85625	*Rheotanytarsus exiguus group*	3211 +
85814	*Tanytarsus glabrescens group*	69
85840	*Tanytarsus guerlus group*	69
87501	*Empididae*	17
96900	*Ferrissia sp*	8
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa: 37 Total Taxa: 57

No. Qualitative Taxa: 38 ICI: 46

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-001 River: Little Miami River RM: 63.00

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	16
01801	*Turbellaria*	0 +
03040	*Fredericella sp*	0 +
03600	*Oligochaeta*	24
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	1 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	360 +
12200	*Isonychia sp*	77 +
13000	*Leucrocuta sp*	12 +
13400	*Stenacron sp*	588 +
13510	*Stenonema exiguum*	744 +
13521	*Stenonema femoratum*	12 +
13550	*Stenonema mexicanum integrum*	12
13570	*Stenonema terminatum*	72 +
16700	*Tricorythodes sp*	88 +
21200	*Calopteryx sp*	0 +
22300	*Argia sp*	6 +
23909	*Boyeria vinosa*	0 +
24900	*Gomphus sp*	0 +
45100	*Palmacorixa sp*	0 +
52200	*Cheumatopsyche sp*	208 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	90 +
52450	*Hydropsyche (Ceratopsyche) sparna*	1
52520	*Hydropsyche (H.) bidens*	1 +
52540	*Hydropsyche (H.) dicantha*	0 +
68601	*Ancyronyx variegata*	8 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	13 +
69400	*Stenelmis sp*	0 +
74100	*Simulium sp*	1
77500	*Conchapelopia sp*	0 +
77800	*Helopelopia sp*	16
78650	*Procladius sp*	0 +
80370	*Corynoneura lobata*	16 +
80410	*Cricotopus (C.) sp*	0 +
80420	*Cricotopus (C.) bicinctus*	16
82141	*Thienemanniella xena*	56
82730	*Chironomus (C.) decorus group*	16 +
83040	*Dicrotendipes neomodestus*	0 +
83410	*Harnischia curtilamellata*	16
84450	*Polypedilum (P.) convictum*	32
84460	*Polypedilum (P.) fallax group*	48
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84750	*Stictochironomus sp*	0 +
85500	*Paratanytarsus sp*	0 +
85625	*Rheotanytarsus exiguus group*	1713 +
85814	*Tanytarsus glabrescens group*	0 +
87501	*Empididae*	0 +
96900	*Ferrissia sp*	1 +
97601	*Corbicula fluminea*	5 +

No. Quantitative Taxa:	31	Total Taxa:	53
No. Qualitative Taxa:	42	ICI:	46

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 53.20

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	34
01801	*Turbellaria*	3 +
03600	*Oligochaeta*	0 +
05900	*Lirceus sp*	0 +
06700	*Crangonyx sp*	3 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	56 +
12200	*Isonychia sp*	18 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	125 +
13510	*Stenonema exiguum*	825 +
13561	*Stenonema pulchellum*	55
13570	*Stenonema terminatum*	0 +
16700	*Tricorythodes sp*	61 +
21200	*Calopteryx sp*	0 +
21300	*Hetaerina sp*	0 +
22300	*Argia sp*	5 +
23909	*Boyeria vinosa*	0 +
47600	*Sialis sp*	0 +
50315	*Chimarra obscura*	0 +
51300	*Neureclipsis sp*	2 +
52200	*Cheumatopsyche sp*	60 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	22 +
52520	*Hydropsyche (H.) bidens*	2 +
52540	*Hydropsyche (H.) dicantha*	0 +
52570	*Hydropsyche (H.) simulans*	10 +
68075	*Psephenus herricki*	0 +
68601	*Ancyronyx variegata*	12 +
68702	*Dubiraphia bivittata*	0 +
68707	*Dubiraphia quadrinotata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	37 +
69000	*Microcylloepus pusillus*	0 +
69400	*Stenelmis sp*	1 +
77750	*Hayesomyia senata or Thienemannimyia norena*	9 +
80310	*Cardiocladius obscurus*	0 +
80370	*Corynoneura lobata*	2
81825	*Rheocricotopus (Psilocricotopus) robacki*	2
82141	*Thienemanniella xena*	2
82770	*Chironomus (C.) riparius group*	0 +
84210	*Paratendipes albimanus or P. duplicatus*	0 +
84450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	28
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	9 +
84750	*Stictochironomus sp*	0 +
84790	*Tribelos fuscicorne*	7
85625	*Rheotanytarsus exiguus group*	66 +
85840	*Tanytarsus guerlus group*	4
87501	*Empididae*	0 +
93900	*Elimia sp*	3 +
97601	*Corbicula fluminea*	3 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 29 Total Taxa: 53

No. Qualitative Taxa: 45 ICI: 40

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 47.50

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	98 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11120	*Baetis flavistriga*	1
11130	*Baetis intercalaris*	27 +
11400	*Baetidae (formerly in Cloeon)*	1
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	26 +
13400	*Stenacron sp*	26 +
13510	*Stenonema exiguum*	240 +
13550	*Stenonema mexicanum integrum*	17
13570	*Stenonema terminatum*	9 +
16700	*Tricorythodes sp*	337 +
17200	*Caenis sp*	24
21200	*Calopteryx sp*	1 +
22300	*Argia sp*	4 +
23909	*Boyeria vinosa*	0 +
34700	*Agnetina capitata complex*	0 +
45300	*Sigara sp*	0 +
45400	*Trichocorixa sp*	0 +
47600	*Sialis sp*	0 +
50906	*Psychomyia flavida*	2
51206	*Cyrnellus fraternus*	1
51300	*Neureclipsis sp*	2
52200	*Cheumatopsyche sp*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
53800	*Hydroptila sp*	39
57900	*Pycnopsyche sp*	0 +
60900	*Peltodytes sp*	0 +
68075	*Psephenus herricki*	0 +
68601	*Ancyronyx variegata*	0 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	1 +
68901	*Macronychus glabratus*	15 +
69400	*Stenelmis sp*	3 +
77120	*Ablabesmyia mallochi*	10
78140	*Labrundinia pilosella*	12 +
78650	*Procladius sp*	0 +
80310	*Cardiocladius obscurus*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	4
80370	*Corynoneura lobata*	16
80410	*Cricotopus (C.) sp*	49
80420	*Cricotopus (C.) bicinctus*	30
80430	*Cricotopus (C.) tremulus group*	30
82101	*Thienemanniella n.sp 1*	16
82121	*Thienemanniella n.sp 3*	4
82730	*Chironomus (C.) decorus group*	20 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	276
83410	*Harnischia curtilamellata*	20 +
83840	*Microtendipes pedellus group*	10
84450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	30
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	20 +
84700	*Stenochironomus sp*	10
84790	*Tribelos fuscicorne*	39
85265	*Cladotanytarsus vanderwulpi group Type 5*	0 +
85615	*Rheotanytarsus distinctissimus group*	10
85625	*Rheotanytarsus exiguus group*	118 +
85800	*Tanytarsus sp*	10
85814	*Tanytarsus glabrescens group*	80
85840	*Tanytarsus guerlus group*	20 +
93200	*Hydrobiidae*	0 +
93900	*Elimia sp*	549 +
96900	*Ferrissia sp*	29
97601	*Corbicula fluminea*	6 +
98200	*Pisidium sp*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 45 Total Taxa: 71

No. Qualitative Taxa: 46 ICI: 34

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 43.70

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	36
01801	*Turbellaria*	12 +
03600	*Oligochaeta*	12 +
04664	*Helobdella stagnalis*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11120	*Baetis flavistriga*	21
11130	*Baetis intercalaris*	320 +
12200	*Isonychia sp*	18 +
13000	*Leucrocuta sp*	19 +
13400	*Stenacron sp*	47 +
13510	*Stenonema exiguum*	536 +
13550	*Stenonema mexicanum integrum*	9
13570	*Stenonema terminatum*	47 +
16700	*Tricorythodes sp*	257 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	3 +
24900	*Gomphus sp*	0 +
34300	*Neoperla clymene complex*	0 +
34700	*Agnetina capitata complex*	12 +
47600	*Sialis sp*	0 +
48410	*Corydalus cornutus*	6 +
50906	*Psychomyia flavida*	4
51300	*Neureclipsis sp*	9
62200	*Cheumatopsyche sp*	32 +
62430	*Hydropsyche (Ceratopsyche) morosa group*	61 +
63800	*Hydroptila sp*	69
67900	*Pycnopsyche sp*	0 +
70900	*Peltodytes sp*	0 +
78075	*Psephenus herricki*	0 +
78130	*Helichus sp*	0 +
78601	*Ancyronyx variegata*	1 +
78708	*Dubiraphia vittata group*	2 +
78901	*Macronychus glabratus*	7 +
79000	*Microcylloepus pusillus*	0 +
79400	*Stenelmis sp*	4 +
81100	*Simulium sp*	0 +
87120	*Ablabesmyia mallochi*	4
87750	*Hayesomyia senata or Thienemannimyia norena*	4
78140	*Labrundinia pilosella*	4
80310	*Cardiocladius obscurus*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	4
80370	*Corynoneura lobata*	8
80410	*Cricotopus (C.) sp*	4
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	4
82101	*Thienemanniella n.sp 1*	16 +
82141	*Thienemanniella xena*	16
82220	*Tvetenia discoloripes group*	0 +
82730	*Chironomus (C.) decorus group*	4
84155	*Paralauterborniella nigrohalteralis*	8
84300	*Phaenopsectra obediens group*	4
84450	*Polypedilum (P.) convictum*	17
84460	*Polypedilum (P.) fallax group*	17
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	13
84790	*Tribelos fuscicorne*	8
84800	*Tribelos jucundum*	0 +
85265	*Cladotanytarsus vanderwulpi group Type 5*	0 +
85625	*Rheotanytarsus exiguus group*	253
85720	*Stempellinella n.sp nr. flavidula*	8
85840	*Tanytarsus guerlus group*	4
93900	*Elimia sp*	85 +
97601	*Corbicula fluminea*	0 +
99880	*Lampsilis ventricosa*	0 +

No. Quantitative Taxa: 44 Total Taxa: 66

No. Qualitative Taxa: 42 ICI: 48

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 38.60

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	6
01801	*Turbellaria*	96 +
03600	*Oligochaeta*	2 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11120	*Baetis flavistriga*	38 +
11130	*Baetis intercalaris*	327 +
12200	*Isonychia sp*	2 +
13000	*Leucrocuta sp*	23 +
13400	*Stenacron sp*	102 +
13510	*Stenonema exiguum*	328 +
13550	*Stenonema mexicanum integrum*	23
13561	*Stenonema pulchellum*	23
13570	*Stenonema terminatum*	11 +
16700	*Tricorythodes sp*	311 +
17200	*Caenis sp*	9
18100	*Anthopotamus sp*	0 +
21300	*Hetaerina sp*	4 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	4 +
23804	*Basiaeschna janata*	0 +
34700	*Agnetina capitata complex*	0 +
47600	*Sialis sp*	1
48410	*Corydalus cornutus*	1 +
50315	*Chimarra obscura*	0 +
51300	*Neureclipsis sp*	12
52200	*Cheumatopsyche sp*	214 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	16 +
52540	*Hydropsyche (H.) dicantha*	0 +
53704	*Dibusa angata*	3
53800	*Hydroptila sp*	52 +
57900	*Pycnopsyche sp*	0 +
59970	*Petrophila sp*	2
68075	*Psephenus herricki*	0 +
68601	*Ancyronyx variegata*	1 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	16 +
69400	*Stenelmis sp*	2 +
74100	*Simulium sp*	0 +
77740	*Hayesomyia senata*	6
78140	*Labrundinia pilosella*	4
78450	*Nilotanypus fimbriatus*	8
78750	*Rheopelopia paramaculipennis*	16 +
80310	*Cardiocladius obscurus*	2 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	12
80370	*Corynoneura lobata*	29
82101	*Thienemanniella n.sp 1*	14 +
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
84300	*Phaenopsectra obediens group*	6 +
84450	*Polypedilum (P.) convictum*	28 +
84460	*Polypedilum (P.) fallax group*	8
84540	*Polypedilum (Tripodura) scalaenum group*	6 +
84790	*Tribelos fuscicorne*	6
85615	*Rheotanytarsus distinctissimus group*	2
85625	*Rheotanytarsus exiguus group*	54
85720	*Stempellinella n.sp nr. flavidula*	2
85840	*Tanytarsus guerlus group*	2
93900	*Elimia sp*	117 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa:	45	Total Taxa:	61
No. Qualitative Taxa:	42	ICI:	50

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 35.90

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03360	*Plumatella sp*	1
03600	*Oligochaeta*	2
05800	*Caecidotea sp*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	2 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11001	*Baetidae*	3
11120	*Baetis flavistriga*	13
11130	*Baetis intercalaris*	45 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	5
13400	*Stenacron sp*	89 +
13510	*Stenonema exiguum*	31
13521	*Stenonema femoratum*	0 +
13561	*Stenonema pulchellum*	36 +
13570	*Stenonema terminatum*	10
16700	*Tricorythodes sp*	11 +
17200	*Caenis sp*	4
18100	*Anthopotamus sp*	0 +
21300	*Hetaerina sp*	0 +
22001	*Coenagrionidae*	1 +
22300	*Argia sp*	6 +
24900	*Gomphus sp*	0 +
24300	*Neoperla clymene complex*	0 +
32700	*Belostoma sp*	0 +
35100	*Palmacorixa sp*	0 +
37600	*Sialis sp*	0 +
42200	*Cheumatopsyche sp*	0 +
42430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
43800	*Hydroptila sp*	1 +
49970	*Petrophila sp*	0 +
50900	*Peltodytes sp*	0 +
53900	*Laccophilus sp*	0 +
56800	*Berosus sp*	0 +
57800	*Tropisternus sp*	0 +
63075	*Psephenus herricki*	0 +
63130	*Helichus sp*	2 +
64601	*Ancyronyx variegata*	0 +
64702	*Dubiraphia bivittata*	0 +
64708	*Dubiraphia vittata group*	3 +
68901	*Macronychus glabratus*	6 +
69400	*Stenelmis sp*	2 +
70600	*Antocha sp*	0 +
74100	*Simulium sp*	0 +
77120	*Ablabesmyia mallochi*	20
77130	*Ablabesmyia rhamphe group*	5
77800	*Helopelopia sp*	2
78140	*Labrundinia pilosella*	2
78401	*Natarsia species A (sensu Roback, 1978)*	1
78650	*Procladius sp*	2 +
80310	*Cardiocladius obscurus*	0 +
80370	*Corynoneura lobata*	7
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	0 +
81280	*Nanocladius (Plecopteracoluthus) n. sp*	0 +
82101	*Thienemanniella n.sp 1*	1 +
82730	*Chironomus (C.) decorus group*	1
83040	*Dicrotendipes neomodestus*	2 +
84300	*Phaenopsectra obediens group*	8 +
84450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	1
84470	*Polypedilum (P.) illinoense*	1 +
84520	*Polypedilum (Tripodura) halterale group*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	8
84700	*Stenochironomus sp*	1
84750	*Stictochironomus sp*	0 +
84800	*Tribelos jucundum*	0 +
85265	*Cladotanytarsus vanderwulpi group Type 5*	0 +
85615	*Rheotanytarsus distinctissimus group*	1
85625	*Rheotanytarsus exiguus group*	4 +
85720	*Stempellinella n.sp nr. flavidula*	5
85814	*Tanytarsus glabrescens group*	1
85840	*Tanytarsus guerlus group*	19
87501	*Empididae*	4
93900	*Elimia sp*	17 +
95100	*Physella sp*	1
96900	*Ferrissia sp*	8
97601	*Corbicula fluminea*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 44 Total Taxa: 80

No. Qualitative Taxa: 55 ICI: 34

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-001 River: Little Miami River RM: 32.90

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	32
01801	*Turbellaria*	17 +
03360	*Plumatella sp*	2
03600	*Oligochaeta*	8 +
05800	*Caecidotea sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11120	*Baetis flavistriga*	72
11130	*Baetis intercalaris*	1336 +
11300	*Baetidae (formerly in Centroptilum)*	0 +
12200	*Isonychia sp*	10 +
13000	*Leucrocuta sp*	34
13400	*Stenacron sp*	9 +
13510	*Stenonema exiguum*	259 +
13521	*Stenonema femoratum*	9
13550	*Stenonema mexicanum integrum*	9
13561	*Stenonema pulchellum*	0 +
13570	*Stenonema terminatum*	43 +
16700	*Tricorythodes sp*	653 +
17200	*Caenis sp*	32 +
18100	*Anthopotamus sp*	0 +
21200	*Calopteryx sp*	0 +
21300	*Hetaerina sp*	3 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	8 +
23804	*Basiaeschna janata*	0 +
23909	*Boyeria vinosa*	0 +
34700	*Agnetina capitata complex*	0 +
44501	*Corixidae*	0 +
48410	*Corydalus cornutus*	3 +
50315	*Chimarra obscura*	0 +
50906	*Psychomyia flavida*	1
51300	*Neureclipsis sp*	9
52200	*Cheumatopsyche sp*	608 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	800 +
52510	*Hydropsyche (H.) aerata*	2 +
52540	*Hydropsyche (H.) dicantha*	2
52801	*Potamyia flava*	2
53704	*Dibusa angata*	5
53800	*Hydroptila sp*	56
57900	*Pycnopsyche sp*	0 +
59700	*Triaenodes sp*	0 +
59950	*Parapoynx sp*	0 +
59970	*Petrophila sp*	67 +
60900	*Peltodytes sp*	0 +
65800	*Berosus sp*	0 +
67800	*Tropisternus sp*	0 +
68075	*Psephenus herricki*	0 +
68130	*Helichus sp*	0 +
68601	*Ancyronyx variegata*	0 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	30 +
69400	*Stenelmis sp*	10 +
74100	*Simulium sp*	76 +
74501	*Ceratopogonidae*	0 +
77750	*Hayesomyia senata or Thienemannimyia norena*	54
78140	*Labrundinia pilosella*	18
78750	*Rheopelopia paramaculipennis*	18
80310	*Cardiocladius obscurus*	54 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	32
80410	*Cricotopus (C.) sp*	18
80420	*Cricotopus (C.) bicinctus*	18 +
80430	*Cricotopus (C.) tremulus group*	18
82101	*Thienemanniella n.sp 1*	208 +
82220	*Tvetenia discoloripes group*	89 +
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	0 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
84300	*Phaenopsectra obediens group*	36 +
84450	*Polypedilum (P.) convictum*	89 +
84470	*Polypedilum (P.) illinoense*	18
84540	*Polypedilum (Tripodura) scalaenum group*	18 +
84700	*Stenochironomus sp*	18
85265	*Cladotanytarsus vanderwulpi group Type 5*	0 +
85625	*Rheotanytarsus exiguus group*	1467 +
85814	*Tanytarsus glabrescens group*	18
85840	*Tanytarsus guerlus group*	18
87501	*Empididae*	8
93900	*Elimia sp*	0 +

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-001 River: Little Miami River RM: 32.90

Taxa Code	Taxa	Quan/Qual	Taxa Code	Taxa	Quan/Qual
94400	*Fossaria sp*	0 +			
95100	*Physella sp*	0 +			
97601	*Corbicula fluminea*	0 +			
99320	*Tritogonia verrucosa*	0 +			

No. Quantitative Taxa: 50 Total Taxa: 86

No. Qualitative Taxa: 63 ICI: **56**

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-001 River: Little Miami River RM: 32.10

Taxa Code	Taxa	Quan/Qual
00556	*Ephydatia fluviatilis*	0 +
03360	*Plumatella sp*	3
03600	*Oligochaeta*	3528 +
04964	*Mooreobdella microstoma*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11020	*Acerpenna pygmaeus*	16
11130	*Baetis intercalaris*	11
13000	*Leucrocuta sp*	11
13400	*Stenacron sp*	231 +
13510	*Stenonema exiguum*	77
13521	*Stenonema femoratum*	88 +
13550	*Stenonema mexicanum integrum*	11
13561	*Stenonema pulchellum*	44
13570	*Stenonema terminatum*	66 +
16700	*Tricorythodes sp*	138 +
17200	*Caenis sp*	43 +
18100	*Anthopotamus sp*	0 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	43 +
45400	*Trichocorixa sp*	0 +
47600	*Sialis sp*	0 +
51206	*Cyrnellus fraternus*	263 +
51300	*Neureclipsis sp*	13 +
52200	*Chematopsyche sp*	24
52430	*Hydropsyche (Ceratopsyche) morosa group*	3 +
53501	*Hydroptilidae*	0 +
57900	*Pycnopsyche sp*	0 +
60900	*Peltodytes sp*	0 +
65800	*Berosus sp*	0 +
67800	*Tropisternus sp*	0 +
68075	*Psephenus herricki*	0 +
68601	*Ancyronyx variegata*	32 +
68708	*Dubiraphia vittata group*	1 +
68901	*Macronychus glabratus*	1 +
69400	*Stenelmis sp*	2 +
77115	*Ablabesmyia janta*	0 +
77120	*Ablabesmyia mallochi*	23
77130	*Ablabesmyia rhamphe group*	94 +
77750	*Hayesomyia senata or Thienemannimyia norena*	23
78140	*Labrundinia pilosella*	12
78650	*Procladius sp*	12 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	32
80410	*Cricotopus (C.) sp*	47 +
80420	*Cricotopus (C.) bicinctus*	47
80430	*Cricotopus (C.) tremulus group*	12
81250	*Nanocladius (N.) minimus*	12
82121	*Thienemanniella n.sp 3*	8
82141	*Thienemanniella xena*	8
82710	*Chironomus (C.) sp*	23
82730	*Chironomus (C.) decorus group*	0 +
82770	*Chironomus (C.) riparius group*	0 +
83040	*Dicrotendipes neomodestus*	82
83050	*Dicrotendipes lucifer*	70
83300	*Glyptotendipes (Phytotendipes) sp*	12
84155	*Paralauterborniella nigrohalteralis*	23
84300	*Phaenopsectra obediens group*	12
84460	*Polypedilum (P.) fallax group*	12
84470	*Polypedilum (P.) illinoense*	106 +
84540	*Polypedilum (Tripodura) scalaenum group*	12
84700	*Stenochironomus sp*	12
84790	*Tribelos fuscicorne*	188
85625	*Rheotanytarsus exiguus group*	176
85814	*Tanytarsus glabrescens group*	70
93200	*Hydrobiidae*	0 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	14 +
97601	*Corbicula fluminea*	15

No. Quantitative Taxa: 49 Total Taxa: 69

No. Qualitative Taxa: 39 ICI: 34

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-001 River: Little Miami River RM: 32.00

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	34 +
03040	*Fredericella sp*	0 +
03600	*Oligochaeta*	64 +
04935	*Erpobdella punctata punctata*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11020	*Acerpenna pygmaeus*	12
11130	*Baetis intercalaris*	676 +
11300	*Baetidae (formerly in Centroptilum)*	0 +
12200	*Isonychia sp*	81 +
13000	*Leucrocuta sp*	134 +
13400	*Stenacron sp*	22 +
13510	*Stenonema exiguum*	957 +
13521	*Stenonema femoratum*	22
13550	*Stenonema mexicanum integrum*	45
13561	*Stenonema pulchellum*	223
13570	*Stenonema terminatum*	89 +
16700	*Tricorythodes sp*	549 +
17200	*Caenis sp*	32 +
18100	*Anthopotamus sp*	0 +
21300	*Hetaerina sp*	10
22001	*Coenagrionidae*	0 +
32300	*Argia sp*	8 +
33909	*Boyeria vinosa*	0 +
34900	*Gomphus sp*	0 +
84300	*Neoperla clymene complex*	0 +
93300	*Ranatra sp*	0 +
97600	*Sialis sp*	0 +
98410	*Corydalus cornutus*	27 +
00906	*Psychomyia flavida*	58
01206	*Cyrnellus fraternus*	2 +
01300	*Neureclipsis sp*	32 +
02200	*Cheumatopsyche sp*	1152 +
02430	*Hydropsyche (Ceratopsyche) morosa group*	413 +
02510	*Hydropsyche (H.) aerata*	8
02540	*Hydropsyche (H.) dicantha*	17
03400	*Protoptila sp*	0 +
03800	*Hydroptila sp*	192
07900	*Pycnopsyche sp*	0 +
09970	*Petrophila sp*	275 +

Taxa Code	Taxa	Quan/Qual
68075	*Psephenus herricki*	0 +
68130	*Helichus sp*	0 +
68601	*Ancyronyx variegata*	0 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	9 +
69000	*Microcylloepus pusillus*	1
69400	*Stenelmis sp*	7 +
74100	*Simulium sp*	3
77130	*Ablabesmyia rhamphe group*	0 +
77740	*Hayesomyia senata*	65 +
78650	*Procladius sp*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	32
80430	*Cricotopus (C.) tremulus group*	32
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	65
82101	*Thienemanniella n.sp 1*	149
82130	*Thienemanniella similis*	32
82220	*Tvetenia discoloripes group*	32
82730	*Chironomus (C.) decorus group*	32 +
82820	*Cryptochironomus sp*	0 +
82880	*Cryptotendipes sp*	0 +
83040	*Dicrotendipes neomodestus*	0 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
84450	*Polypedilum (P.) convictum*	97 +
84460	*Polypedilum (P.) fallax group*	32
84470	*Polypedilum (P.) illinoense*	0 +
84520	*Polypedilum (Tripodura) halterale group*	0 +
84750	*Stictochironomus sp*	0 +
84800	*Tribelos jucundum*	0 +
85625	*Rheotanytarsus exiguus group*	2794 +
85814	*Tanytarsus glabrescens group*	32
87501	*Empididae*	64
93900	*Elimia sp*	1 +
96120	*Menetus (Micromenetus) dilatatus*	0 +
96900	*Ferrissia sp*	0 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa:	44	Total Taxa:	78
No. Qualitative Taxa:	58	ICI:	56

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-001 River: Little Miami River RM: 30.70

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	108 +
03360	*Plumatella sp*	1
03600	*Oligochaeta*	0 +
04901	*Erpobdellidae*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11020	*Acerpenna pygmaeus*	31
11120	*Baetis flavistriga*	0 +
11130	*Baetis intercalaris*	789 +
12200	*Isonychia sp*	12 +
13000	*Leucrocuta sp*	84 +
13400	*Stenacron sp*	17 +
13510	*Stenonema exiguum*	703 +
13521	*Stenonema femoratum*	17
13550	*Stenonema mexicanum integrum*	17
13561	*Stenonema pulchellum*	100 +
13570	*Stenonema terminatum*	67
16700	*Tricorythodes sp*	245 +
17200	*Caenis sp*	0 +
18100	*Anthopotamus sp*	0 +
18700	*Hexagenia sp*	0 +
21200	*Calopteryx sp*	0 +
21300	*Hetaerina sp*	1 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	1 +
34700	*Agnetina capitata complex*	1 +
45400	*Trichocorixa sp*	0 +
47600	*Sialis sp*	0 +
48410	*Corydalus cornutus*	20 +
50906	*Psychomyia flavida*	70
51206	*Cyrnellus fraternus*	2
51300	*Neureclipsis sp*	3
52200	*Cheumatopsyche sp*	455 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	192 +
52510	*Hydropsyche (H.) aerata*	253 +
53704	*Dibusa angata*	2
53800	*Hydroptila sp*	120
59970	*Petrophila sp*	565 +
65800	*Berosus sp*	0 +
68075	*Psephenus herricki*	0 +
68130	*Helichus sp*	0 +
68601	*Ancyronyx variegata*	0 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	2 +
68901	*Macronychus glabratus*	8 +
69400	*Stenelmis sp*	19 +
74100	*Simulium sp*	16 +
77750	*Hayesomyia senata or Thienemannimyia norena*	139
78140	*Labrundinia pilosella*	46
78750	*Rheopelopia paramaculipennis*	139
80310	*Cardiocladius obscurus*	46 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	48
80410	*Cricotopus (C.) sp*	93
82101	*Thienemanniella n.sp 1*	208
82130	*Thienemanniella similis*	0 +
82220	*Tvetenia discoloripes group*	0 +
84450	*Polypedilum (P.) convictum*	46
84470	*Polypedilum (P.) illinoense*	0 +
85625	*Rheotanytarsus exiguus group*	4599 +
85814	*Tanytarsus glabrescens group*	46
87501	*Empididae*	2
93900	*Elimia sp*	245 +
94400	*Fossaria sp*	0 +
97601	*Corbicula fluminea*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 42 Total Taxa: 67

No. Qualitative Taxa: 48 ICI: 52

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 29.20

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	80
01801	*Turbellaria*	197 +
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	32 +
05800	*Caecidotea sp*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11020	*Acerpenna pygmaeus*	3
11130	*Baetis intercalaris*	120 +
12200	*Isonychia sp*	65 +
13000	*Leucrocuta sp*	194 +
13400	*Stenacron sp*	43 +
13510	*Stenonema exiguum*	1097 +
13521	*Stenonema femoratum*	22 +
13550	*Stenonema mexicanum integrum*	43 +
13561	*Stenonema pulchellum*	194 +
13570	*Stenonema terminatum*	86
16700	*Tricorythodes sp*	597 +
17200	*Caenis sp*	0 +
18100	*Anthopotamus sp*	0 +
21200	*Calopteryx sp*	0 +
21300	*Hetaerina sp*	1 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	0 +
23909	*Boyeria vinosa*	0 +
24300	*Neoperla clymene complex*	0 +
24700	*Agnetina capitata complex*	0 +
28501	*Corixidae*	0 +
37600	*Sialis sp*	0 +
39410	*Corydalus cornutus*	6 +
39315	*Chimarra obscura*	0 +
39906	*Psychomyia flavida*	11
40206	*Cyrnellus fraternus*	73 +
41300	*Neureclipsis sp*	22 +
41200	*Cheumatopsyche sp*	311 +
41430	*Hydropsyche (Ceratopsyche) morosa group*	159 +
41510	*Hydropsyche (H.) aerata*	25 +
41704	*Dibusa angata*	35
41800	*Hydroptila sp*	128
41970	*Petrophila sp*	389 +
60900	*Peltodytes sp*	0 +
63300	*Hydroporus sp*	0 +
68025	*Ectopria nervosa*	0 +
68075	*Psephenus herricki*	0 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	8 +
68901	*Macronychus glabratus*	3 +
69400	*Stenelmis sp*	1 +
71100	*Hexatoma sp*	0 +
74100	*Simulium sp*	0 +
77120	*Ablabesmyia mallochi*	0 +
77500	*Conchapelopia sp*	68 +
77740	*Hayesomyia senata*	270 +
78650	*Procladius sp*	0 +
78750	*Rheopelopia paramaculipennis*	68
80310	*Cardiocladius obscurus*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	16
80370	*Corynoneura lobata*	32
80420	*Cricotopus (C.) bicinctus*	0 +
80430	*Cricotopus (C.) tremulus group*	0 +
82101	*Thienemanniella n.sp 1*	112
82121	*Thienemanniella n.sp 3*	16
82220	*Tvetenia discoloripes group*	0 +
82710	*Chironomus (C.) sp*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	0 +
83840	*Microtendipes pedellus group*	0 +
84450	*Polypedilum (P.) convictum*	68 +
84470	*Polypedilum (P.) illinoense*	0 +
84700	*Stenochironomus sp*	68
84750	*Stictochironomus sp*	0 +
85625	*Rheotanytarsus exiguus group*	5811 +
85800	*Tanytarsus sp*	0 +
93900	*Elimia sp*	12 +
95100	*Physella sp*	0 +
96120	*Menetus (Micromenetus) dilatatus*	0 +
97601	*Corbicula fluminea*	3 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 40 Total Taxa: 80

No. Qualitative Taxa: 68 ICI: 52

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 28.00

Taxa Code	Taxa	Quan/Qual
00401	*Spongillidae*	0 +
01801	*Turbellaria*	0 +
03360	*Plumatella sp*	0 +
04964	*Mooreobdella microstoma*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	0 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	0 +
13510	*Stenonema exiguum*	0 +
13521	*Stenonema femoratum*	0 +
13550	*Stenonema mexicanum integrum*	0 +
13561	*Stenonema pulchellum*	0 +
16700	*Tricorythodes sp*	0 +
18100	*Anthopotamus sp*	0 +
21300	*Hetaerina sp*	0 +
22300	*Argia sp*	0 +
24900	*Gomphus sp*	0 +
34300	*Neoperla clymene complex*	0 +
34700	*Agnetina capitata complex*	0 +
45400	*Trichocorixa sp*	0 +
48410	*Corydalus cornutus*	0 +
50315	*Chimarra obscura*	0 +
51300	*Neureclipsis sp*	0 +
52200	*Cheumatopsyche sp*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
52510	*Hydropsyche (H.) aerata*	0 +
53501	*Hydroptilidae*	0 +
59970	*Petrophila sp*	0 +
68075	*Psephenus herricki*	0 +
68130	*Helichus sp*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	0 +
69400	*Stenelmis sp*	0 +
71300	*Limonia sp*	0 +
74100	*Simulium sp*	0 +
77120	*Ablabesmyia mallochi*	0 +
77470	*Coelotanypus sp*	0 +
77750	*Hayesomyia senata or Thienemannimyia norena*	0 +
77800	*Helopelopia sp*	0 +
80310	*Cardiocladius obscurus*	0 +
80410	*Cricotopus (C.) sp*	0 +
80440	*Cricotopus (C.) trifascia group*	0 +
82101	*Thienemanniella n.sp 1*	0 +
82220	*Tvetenia discoloripes group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	0 +
84470	*Polypedilum (P.) illinoense*	0 +
85625	*Rheotanytarsus exiguus group*	0 +
93900	*Elimia sp*	0 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa: 0 Total Taxa: 53

No. Qualitative Taxa: 53 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 23.90

Taxa Code	Taxa	Quan/Qual	Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	75 +	68075	*Psephenus herricki*	0 +
03360	*Plumatella sp*	1 +	68130	*Helichus sp*	0 +
05800	*Caecidotea sp*	0 +	68601	*Ancyronyx variegata*	0 +
06201	*Hyalella azteca*	0 +	68708	*Dubiraphia vittata group*	1 +
06700	*Crangonyx sp*	0 +	68901	*Macronychus glabratus*	3 +
08250	*Orconectes (Procericambarus) rusticus*	0 +	69400	*Stenelmis sp*	0 +
08601	*Hydracarina*	0 +	74100	*Simulium sp*	48
11020	*Acerpenna pygmaeus*	43	74501	*Ceratopogonidae*	0 +
11130	*Baetis intercalaris*	843 +	77120	*Ablabesmyia mallochi*	0 +
11200	*Callibaetis sp*	0 +	77130	*Ablabesmyia rhamphe group*	21
11600	*Paracloeodes sp 1*	20	77355	*Clinotanypus pinguis*	0 +
12200	*Isonychia sp*	70 +	77740	*Hayesomyia senata*	103 +
13000	*Leucrocuta sp*	44 +	77800	*Helopelopia sp*	0 +
13400	*Stenacron sp*	62 +	78140	*Labrundinia pilosella*	41
13510	*Stenonema exiguum*	325 +	78750	*Rheopelopia paramaculipennis*	123 +
13521	*Stenonema femoratum*	18 +	80310	*Cardiocladius obscurus*	0 +
13550	*Stenonema mexicanum integrum*	9	80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	24
13561	*Stenonema pulchellum*	114 +			
13570	*Stenonema terminatum*	106 +	80370	*Corynoneura lobata*	8
16700	*Tricorythodes sp*	797 +	80410	*Cricotopus (C.) sp*	62
17200	*Caenis sp*	0 +	81280	*Nanocladius (Plecopteracoluthus) n. sp*	0 +
18100	*Anthopotamus sp*	2 +	81825	*Rheocricotopus (Psilocricotopus) robacki*	21
21300	*Hetaerina sp*	0 +	82101	*Thienemanniella n.sp 1*	120
22001	*Coenagrionidae*	0 +	82130	*Thienemanniella similis*	32
22300	*Argia sp*	16 +	82220	*Tvetenia discoloripes group*	21
23804	*Basiaeschna janata*	0 +	82730	*Chironomus (C.) decorus group*	0 +
24300	*Neoperla clymene complex*	0 +	82820	*Cryptochironomus sp*	0 +
26700	*Belostoma sp*	0 +	83040	*Dicrotendipes neomodestus*	82 +
27400	*Trichocorixa sp*	0 +	84040	*Parachironomus frequens*	21
27600	*Sialis sp*	0 +	84450	*Polypedilum (P.) convictum*	82 +
28410	*Corydalus cornutus*	3 +	84540	*Polypedilum (Tripodura) scalaenum group*	21 +
28315	*Chimarra obscura*	0 +	84750	*Stictochironomus sp*	0 +
28206	*Cyrnellus fraternus*	4	85265	*Cladotanytarsus vanderwulpi group Type 5*	0 +
28300	*Neureclipsis sp*	9	85625	*Rheotanytarsus exiguus group*	965 +
29200	*Cheumatopsyche sp*	512 +	87501	*Empididae*	8
29430	*Hydropsyche (Ceratopsyche) morosa group*	80 +	93900	*Elimia sp*	149 +
29610	*Hydropsyche (H.) aerata*	80 +	95100	*Physella sp*	0 +
29800	*Hydroptila sp*	62 +	96900	*Ferrissia sp*	1
29970	*Petrophila sp*	52 +	97601	*Corbicula fluminea*	1 +
30400	*Peltodytes sp*	0 +	98600	*Sphaerium sp*	0 +
30800	*Berosus sp*	0 +	99240	*Lasmigona complanata*	0 +
31400	*Tropisternus sp*	0 +			

No. Quantitative Taxa: 47 Total Taxa: 82

No. Qualitative Taxa: 64 ICI: 50

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 22.20

Taxa Code	Taxa	Quan/Qual
00401	*Spongillidae*	0 +
01320	*Hydra sp*	4
01801	*Turbellaria*	6 +
03360	*Plumatella sp*	1 +
03600	*Oligochaeta*	4 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	1 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	50 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	97 +
13510	*Stenonema exiguum*	5
13521	*Stenonema femoratum*	1
13561	*Stenonema pulchellum*	29
13570	*Stenonema terminatum*	2 +
16700	*Tricorythodes sp*	1 +
17200	*Caenis sp*	9 +
18100	*Anthopotamus sp*	0 +
18700	*Hexagenia sp*	0 +
21300	*Hetaerina sp*	5 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	12 +
23804	*Basiaeschna janata*	0 +
26700	*Macromia sp*	0 +
42700	*Belostoma sp*	0 +
45400	*Trichocorixa sp*	0 +
47600	*Sialis sp*	0 +
48410	*Corydalus cornutus*	2
49101	*Sisyridae*	0 +
51206	*Cyrnellus fraternus*	12
51300	*Neureclipsis sp*	9 +
52200	*Cheumatopsyche sp*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
52510	*Hydropsyche (H.) aerata*	0 +
53800	*Hydroptila sp*	100 +
59970	*Petrophila sp*	5 +
60900	*Peltodytes sp*	0 +
63900	*Laccophilus sp*	0 +
65800	*Berosus sp*	0 +
67800	*Tropisternus sp*	0 +
68075	*Psephenus herricki*	1 +
68130	*Helichus sp*	1
68601	*Ancyronyx variegata*	1 +
68708	*Dubiraphia vittata group*	2 +
68901	*Macronychus glabratus*	14 +
69400	*Stenelmis sp*	4 +
74501	*Ceratopogonidae*	0 +
74673	*Atrichopogon websteri*	4
77120	*Ablabesmyia mallochi*	0 +
77130	*Ablabesmyia rhamphe group*	64
77500	*Conchapelopia sp*	8
78650	*Procladius sp*	16 +
78750	*Rheopelopia paramaculipennis*	0 +
80370	*Corynoneura lobata*	19
82101	*Thienemanniella n.sp 1*	43
82130	*Thienemanniella similis*	15
82730	*Chironomus (C.) decorus group*	16 +
82820	*Cryptochironomus sp*	8
83410	*Harnischia curtilamellata*	8 +
84450	*Polypedilum (P.) convictum*	0 +
84470	*Polypedilum (P.) illinoense*	647 +
84520	*Polypedilum (Tripodura) halterale group*	24 +
84540	*Polypedilum (Tripodura) scalaenum group*	16
84700	*Stenochironomus sp*	40
84750	*Stictochironomus sp*	0 +
84790	*Tribelos fuscicorne*	24 +
85625	*Rheotanytarsus exiguus group*	8 +
87501	*Empididae*	9
93900	*Elimia sp*	105 +
95100	*Physella sp*	1
97601	*Corbicula fluminea*	9 +

No. Quantitative Taxa: 46 Total Taxa: 71

No. Qualitative Taxa: 53 ICI: 32

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-001 River: Little Miami River RM: 18.90

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	0 +
06201	*Hyalella azteca*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	0 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	0 +
13510	*Stenonema exiguum*	0 +
13561	*Stenonema pulchellum*	0 +
13570	*Stenonema terminatum*	0 +
16700	*Tricorythodes sp*	0 +
17200	*Caenis sp*	0 +
18100	*Anthopotamus sp*	0 +
21300	*Hetaerina sp*	0 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	0 +
6700	*Macromia sp*	0 +
4300	*Neoperla clymene complex*	0 +
4700	*Agnetina capitata complex*	0 +
7600	*Sialis sp*	0 +
8410	*Corydalus cornutus*	0 +
2200	*Cheumatopsyche sp*	0 +
2430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
2510	*Hydropsyche (H.) aerata*	0 +
9970	*Petrophila sp*	0 +
3075	*Psephenus herricki*	0 +
5708	*Dubiraphia vittata group*	0 +
400	*Stenelmis sp*	0 +
100	*Simulium sp*	0 +
120	*Ablabesmyia mallochi*	0 +
730	*Chironomus (C.) decorus group*	0 +
770	*Chironomus (C.) riparius group*	0 +
820	*Cryptochironomus sp*	0 +
040	*Dicrotendipes neomodestus*	0 +
300	*Phaenopsectra obediens group*	0 +
450	*Polypedilum (P.) convictum*	0 +
470	*Polypedilum (P.) illinoense*	0 +
750	*Stictochironomus sp*	0 +
65	*Cladotanytarsus vanderwulpi group Type 5*	0 +
25	*Rheotanytarsus exiguus group*	0 +
93200	*Hydrobiidae*	0 +
93900	*Elimia sp*	0 +
94400	*Fossaria sp*	0 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	0 +
97601	*Corbicula fluminea*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 0 Total Taxa: 49

No. Qualitative Taxa: 49 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 13.10

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	245 +
03360	*Plumatella sp*	1 +
03600	*Oligochaeta*	144 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	4 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	5 +
13400	*Stenacron sp*	178 +
13510	*Stenonema exiguum*	84
13521	*Stenonema femoratum*	5
13550	*Stenonema mexicanum integrum*	10
13561	*Stenonema pulchellum*	74 +
13570	*Stenonema terminatum*	59 +
16700	*Tricorythodes sp*	117 +
17200	*Caenis sp*	2
18100	*Anthopotamus sp*	0 +
21300	*Hetaerina sp*	1
22300	*Argia sp*	0 +
45400	*Trichocorixa sp*	0 +
51206	*Cyrnellus fraternus*	6
52200	*Cheumatopsyche sp*	2 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
52510	*Hydropsyche (H.) aerata*	0 +
53800	*Hydroptila sp*	27 +
59140	*Ceraclea maculata*	0 +
59970	*Petrophila sp*	0 +
68708	*Dubiraphia vittata group*	2
68901	*Macronychus glabratus*	29
69400	*Stenelmis sp*	1 +
77130	*Ablabesmyia rhamphe group*	25
77740	*Hayesomyia senata*	37
78140	*Labrundinia pilosella*	12
78650	*Procladius sp*	0 +
80310	*Cardiocladius obscurus*	0 +
80410	*Cricotopus (C.) sp*	49 +
80430	*Cricotopus (C.) tremulus group*	25
81240	*Nanocladius (N.) distinctus*	12
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	246 +
83050	*Dicrotendipes lucifer*	394
84300	*Phaenopsectra obediens group*	0 +
84450	*Polypedilum (P.) convictum*	12 +
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	12
84700	*Stenochironomus sp*	62
84750	*Stictochironomus sp*	0 +
85625	*Rheotanytarsus exiguus group*	49 +
85814	*Tanytarsus glabrescens group*	12
85840	*Tanytarsus guerlus group*	25
87501	*Empididae*	8
93900	*Elimia sp*	18 +
96900	*Ferrissia sp*	92 +
97710	*Dreissena polymorpha*	125
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa:	38	Total Taxa:	55
No. Qualitative Taxa:	35	ICI:	32

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 8.80

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	1 +
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	32 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	872 +
11300	*Baetidae (formerly in Centroptilum)*	0 +
12200	*Isonychia sp*	261 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	0 +
13510	*Stenonema exiguum*	504 +
13550	*Stenonema mexicanum integrum*	34
13561	*Stenonema pulchellum*	73 +
13570	*Stenonema terminatum*	17 +
16700	*Tricorythodes sp*	34 +
18100	*Anthopotamus sp*	0 +
18700	*Hexagenia sp*	0 +
21300	*Hetaerina sp*	0 +
22300	*Argia sp*	0 +
24900	*Gomphus sp*	0 +
24700	*Agnetina capitata complex*	0 +
25400	*Trichocorixa sp*	0 +
27600	*Sialis sp*	0 +
28410	*Corydalus cornutus*	11 +
31206	*Cyrnellus fraternus*	4
32200	*Cheumatopsyche sp*	1420 +
32430	*Hydropsyche (Ceratopsyche) morosa group*	714 +
32510	*Hydropsyche (H.) aerata*	139 +
32540	*Hydropsyche (H.) dicantha*	47
32560	*Hydropsyche (H.) orris*	1
33801	*Potamyia flava*	1
33800	*Hydroptila sp*	9 +
33970	*Petrophila sp*	16 +
34075	*Psephenus herricki*	0 +
34130	*Helichus sp*	0 +
34901	*Macronychus glabratus*	3
35400	*Stenelmis sp*	14 +
35100	*Simulium sp*	188 +
39740	*Hayesomyia senata*	51 +
41450	*Nilotanypus fimbriatus*	25
41550	*Procladius sp*	0 +
41810	*Cardiocladius obscurus*	0 -
42130	*Thienemanniella similis*	0 +

Taxa Code	Taxa	Quan/Qual
82220	*Tvetenia discoloripes group*	25
82730	*Chironomus (C.) decorus group*	0 +
83040	*Dicrotendipes neomodestus*	0 +
83050	*Dicrotendipes lucifer*	25
83310	*Glyptotendipes (G.) amplus*	0 +
84450	*Polypedilum (P.) convictum*	153 +
84470	*Polypedilum (P.) illinoense*	0 +
84520	*Polypedilum (Tripodura) halterale group*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
85625	*Rheotanytarsus exiguus group*	2061 +
87501	*Empididae*	1
93900	*Elimia sp*	0 +
96900	*Ferrissia sp*	0 +
97601	*Corbicula fluminea*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa:	29	Total Taxa:	57
No. Qualitative Taxa:	47	ICI:	**52**

Appendix Table A-10. Macroinvertebrate collection [illegible] study-area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-001 River: Little Miami River RM: 3.40

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	32
01801	*Turbellaria*	17 +
03360	*Plumatella sp*	1 +
03600	*Oligochaeta*	309 +
04661	*Helobdella elongata*	0 +
04664	*Helobdella stagnalis*	16
04964	*Mooreobdella microstoma*	6 +
05900	*Lirceus sp*	1
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
08601	*Hydracarina*	32 +
11130	*Baetis intercalaris*	24 +
11200	*Callibaetis sp*	0 +
12200	*Isonychia sp*	20 +
13400	*Stenacron sp*	18 +
13510	*Stenonema exiguum*	207 +
13521	*Stenonema femoratum*	0 +
13550	*Stenonema mexicanum integrum*	12
13561	*Stenonema pulchellum*	30 +
13570	*Stenonema terminatum*	116
16700	*Tricorythodes sp*	741 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	18 +
24900	*Gomphus sp*	0 +
26700	*Macromia sp*	0 +
27404	*Neurocordulia molesta*	2
28705	*Pachydiplax longipennis*	0 +
42700	*Belostoma sp*	0 +
44501	*Corixidae*	0 +
47600	*Sialis sp*	1
48410	*Corydalus cornutus*	0 +
51206	*Cyrnellus fraternus*	20
51300	*Neureclipsis sp*	15
52200	*Cheumatopsyche sp*	438 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	2 +
52510	*Hydropsyche (H.) aerata*	65 +
52570	*Hydropsyche (H.) simulans*	32 +
52801	*Potamyia flava*	0 +
53800	*Hydroptila sp*	8 +
59970	*Petrophila sp*	0 +
60900	*Peltodytes sp*	0 +
65800	*Berosus sp*	1 +
67800	*Tropisternus sp*	0 +
68601	*Ancyronyx variegata*	0 +
68901	*Macronychus glabratus*	21
69400	*Stenelmis sp*	1 +
74100	*Simulium sp*	2
74501	*Ceratopogonidae*	0 +
77120	*Ablabesmyia mallochi*	0 +
77130	*Ablabesmyia rhamphe group*	0 +
77500	*Conchapelopia sp*	0 +
77740	*Hayesomyia senata*	630 +
78140	*Labrundinia pilosella*	33
78450	*Nilotanypus fimbriatus*	33
78650	*Procladius sp*	0 +
78750	*Rheopelopia paramaculipennis*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	16
80410	*Cricotopus (C.) sp*	33 +
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	33 +
81240	*Nanocladius (N.) distinctus*	33
82130	*Thienemanniella similis*	0 +
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	0 +
83050	*Dicrotendipes lucifer*	66
83300	*Glyptotendipes (Phytotendipes) sp*	133 +
84040	*Parachironomus frequens*	33
84450	*Polypedilum (P.) convictum*	166 +
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	66 +
84700	*Stenochironomus sp*	232
85625	*Rheotanytarsus exiguus group*	3580 +
85800	*Tanytarsus sp*	0 +
87501	*Empididae*	85 +
93900	*Elimia sp*	0 +
95100	*Physella sp*	25 +
96120	*Menetus (Micromenetus) dilatatus*	17
97601	*Corbicula fluminea*	2 +
98600	*Sphaerium sp*	0 +
99680	*Leptodea fragilis*	0 +

No. Quantitative Taxa:	48	Total Taxa:	80
No. Qualitative Taxa:	61	ICI:	42

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/07/93 River Code: 11-001 River: Little Miami River RM: 1.60

Taxa Code	Taxa	Quan/Qual	Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	24			
01801	*Turbellaria*	38 +			
03360	*Plumatella sp*	1 +			
03600	*Oligochaeta*	190 +			
11130	*Baetis intercalaris*	9			
13500	*Stenonema sp*	10			
16700	*Tricorythodes sp*	2 +			
18700	*Hexagenia sp*	0 +			
22300	*Argia sp*	50			
28908	*Perithemis tenera*	0 +			
45400	*Trichocorixa sp*	0 +			
51206	*Cyrnellus fraternus*	115 +			
52001	*Hydropsychidae*	2			
59500	*Oecetis sp*	0 +			
63900	*Laccophilus sp*	0 +			
67800	*Tropisternus sp*	0 +			
77120	*Ablabesmyia mallochi*	0 +			
77130	*Ablabesmyia rhamphe group*	96 +			
77470	*Coelotanypus sp*	0 +			
78140	*Labrundinia pilosella*	48			
78650	*Procladius sp*	0 +			
79085	*Telopelopia okoboji*	24			
81229	*Nanocladius (N.) crassicornus*	24			
81240	*Nanocladius (N.) distinctus*	0 +			
82730	*Chironomus (C.) decorus group*	0 +			
82820	*Cryptochironomus sp*	0 +			
83050	*Dicrotendipes lucifer*	624			
83051	*Dicrotendipes simpsoni*	48			
83300	*Glyptotendipes (Phytotendipes) sp*	1488 +			
83700	*Microchironomus sp*	24			
84470	*Polypedilum (P.) illinoense*	0 +			
84520	*Polypedilum (Tripodura) halterale group*	0 +			
87700	*Stenochironomus sp*	24			
88790	*Tribelos fuscicorne*	168			
89100	*Physella sp*	123 +			

No. Quantitative Taxa: 21 Total Taxa: 35

No. Qualitative Taxa: 22 ICI: **12**

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/07/93 River Code: 11-001 River: Little Miami River RM: .40

Taxa Code	Taxa	Quan/Qual	Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +			
03360	*Plumatella sp*	0 +			
03600	*Oligochaeta*	0 +			
11130	*Baetis intercalaris*	0 +			
13510	*Stenonema exiguum*	0 +			
16700	*Tricorythodes sp*	0 +			
22300	*Argia sp*	0 +			
51206	*Cyrnellus fraternus*	0 +			
59500	*Oecetis sp*	0 +			
63900	*Laccophilus sp*	0 +			
68130	*Helichus sp*	0 +			
68601	*Ancyronyx variegata*	0 +			
68901	*Macronychus glabratus*	0 +			
69400	*Stenelmis sp*	0 +			
77110	*Ablabesmyia annulata*	0 +			
77120	*Ablabesmyia mallochi*	0 +			
77750	*Hayesomyia senata or Thienemannimyia norena*	0 +			
82820	*Cryptochironomus sp*	0 +			
83050	*Dicrotendipes lucifer*	0 +			
83300	*Glyptotendipes (Phytotendipes) sp*	0 +			
84470	*Polypedilum (P.) illinoense*	0 +			
84520	*Polypedilum (Tripodura) halterale group*	0 +			
84540	*Polypedilum (Tripodura) scalaenum group*	0 +			
84790	*Tribelos fuscicorne*	0 +			

No. Quantitative Taxa: 0 Total Taxa: 24

No. Qualitative Taxa: 24 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-040 River: Yellow Springs Creek RM: .50

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03600	*Oligochaeta*	4 +
05900	*Lirceus sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
12200	*Isonychia sp*	4 +
13400	*Stenacron sp*	79 +
13521	*Stenonema femoratum*	8
13590	*Stenonema vicarium*	19 +
16200	*Eurylophella sp*	3
18600	*Ephemera sp*	0 +
21200	*Calopteryx sp*	5 +
23909	*Boyeria vinosa*	0 +
33100	*Leuctra sp*	1 +
34410	*Paragnetina media*	0 +
45300	*Sigara sp*	0 +
48620	*Nigronia serricornis*	0 +
60804	*Lype diversa*	11
62200	*Cheumatopsyche sp*	5 +
62430	*Hydropsyche (Ceratopsyche) morosa group*	1
62450	*Hydropsyche (Ceratopsyche) sparna*	0 +
62530	*Hydropsyche (H.) depravata group*	0 +
67400	*Neophylax sp*	0 +
67900	*Pycnopsyche sp*	1 +
73300	*Hydroporus sp*	0 +
77100	*Hydrobius sp*	0 +
77800	*Tropisternus sp*	0 +
78025	*Ectopria nervosa*	0 +
78901	*Macronychus glabratus*	1
79400	*Stenelmis sp*	0 +
81900	*Tipula sp*	0 +
84100	*Simulium sp*	0 +
87500	*Conchapelopia sp*	47 +
87800	*Helopelopia sp*	36 +
89400	*Zavrelimyia sp*	12
90204	*Brillia flavifrons group*	24 +
90351	*Corynoneura n.sp 1*	0 +
90370	*Corynoneura lobata*	96
91632	*Parakiefferiella n.sp 2*	24
91825	*Rheocricotopus (Psilocricotopus) robacki*	0 +
92141	*Thienemanniella xena*	30
92200	*Tvetenia bavarica group*	0 +
93840	*Microtendipes pedellus group*	59 +
84210	*Paratendipes albimanus or P. duplicatus*	36 +
84440	*Polypedilum (P.) aviceps*	0 +
84450	*Polypedilum (P.) convictum*	12
84460	*Polypedilum (P.) fallax group*	83
84470	*Polypedilum (P.) illinoense*	0 +
84480	*Polypedilum (P.) n.sp. same as tuberculum (Maschwitz, 1976)*	0 +
84750	*Stictochironomus sp*	0 +
85261	*Cladotanytarsus vanderwulpi group Type 1*	12
85500	*Paratanytarsus sp*	24
85625	*Rheotanytarsus exiguus group*	107 +
85720	*Stempellinella n.sp nr. flavidula*	59
85800	*Tanytarsus sp*	521 +
85802	*Tanytarsus curticornis group*	118
85814	*Tanytarsus glabrescens group*	71
86100	*Chrysops sp*	0 +
86700	*Caloparyphus sp*	0 +
87501	*Empididae*	4
89001	*Sciomyzidae*	0 +
93900	*Elimia sp*	0 +
95100	*Physella sp*	0 +

No. Quantitative Taxa:	32	Total Taxa:	62
No. Qualitative Taxa:	45	ICI:	46

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-040 River: Yellow Springs Creek RM: .44

Taxa Code	Taxa	Quan/Qual
03600	*Oligochaeta*	93
05900	*Lirceus sp*	1 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11120	*Baetis flavistriga*	1 +
12200	*Isonychia sp*	2 +
13400	*Stenacron sp*	95 +
13521	*Stenonema femoratum*	3 +
13590	*Stenonema vicarium*	1
16200	*Eurylophella sp*	1
17200	*Caenis sp*	1
21200	*Calopteryx sp*	3 +
45300	*Sigara sp*	0 +
45900	*Notonecta sp*	0 +
48620	*Nigronia serricornis*	0 +
50804	*Lype diversa*	8
52200	*Cheumatopsyche sp*	1 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
52530	*Hydropsyche (H.) depravata group*	0 +
57400	*Neophylax sp*	0 +
57900	*Pycnopsyche sp*	0 +
68025	*Ectopria nervosa*	0 +
68075	*Psephenus herricki*	0 +
68901	*Macronychus glabratus*	1
69200	*Optioservus sp*	0 +
69400	*Stenelmis sp*	0 +
71900	*Tipula sp*	0 +
74100	*Simulium sp*	0 +
74501	*Ceratopogonidae*	1
77500	*Conchapelopia sp*	31
77800	*Helopelopia sp*	5
78350	*Meropelopia sp*	26 +
78450	*Nilotanypus fimbriatus*	16
78650	*Procladius sp*	0 +
79400	*Zavrelimyia sp*	31
80204	*Brillia flavifrons group*	16 +
80351	*Corynoneura n.sp 1*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	4
80370	*Corynoneura lobata*	104
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	5
81270	*Nanocladius (N.) spiniplenus*	10
81631	*Parakiefferiella n.sp 1*	5
81650	*Parametriocnemus sp*	10 +
81690	*Paratrichocladius sp*	5
81825	*Rheocricotopus (Psilocricotopus) robacki*	0 +
82141	*Thienemanniella xena*	12
82770	*Chironomus (C.) riparius group*	67 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	5
83840	*Microtendipes pedellus group*	21 +
84210	*Paratendipes albimanus or P. duplicatus*	52 +
84460	*Polypedilum (P.) fallax group*	88 +
84470	*Polypedilum (P.) illinoense*	0 +
84750	*Stictochironomus sp*	0 +
85261	*Cladotanytarsus vanderwulpi group Type 1*	5
85500	*Paratanytarsus sp*	5
85625	*Rheotanytarsus exiguus group*	5 +
85800	*Tanytarsus sp*	5 +
85802	*Tanytarsus curticornis group*	26
93900	*Elimia sp*	0 +
94400	*Fossaria sp*	1

No. Quantitative Taxa: 39 Total Taxa: 60

No. Qualitative Taxa: 37 ICI: 36

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-040 River: Yellow Springs Creek RM: .30

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	23 +
04685	*Placobdella ornata*	0 +
05900	*Lirceus sp*	1 +
08250	*Orconectes (Procericambarus) rusticus*	3 +
11120	*Baetis flavistriga*	61 +
11130	*Baetis intercalaris*	0 +
12200	*Isonychia sp*	48 +
13400	*Stenacron sp*	118 +
13521	*Stenonema femoratum*	22
13590	*Stenonema vicarium*	12 +
16200	*Eurylophella sp*	9
17200	*Caenis sp*	4
21200	*Calopteryx sp*	5 +
23100	*Leuctra sp*	0 +
24410	*Paragnetina media*	1 +
25300	*Sigara sp*	0 +
27600	*Sialis sp*	0 +
28620	*Nigronia serricornis*	3 +
30804	*Lype diversa*	3
32200	*Cheumatopsyche sp*	6 +
32430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
32530	*Hydropsyche (H.) depravata group*	0 +
37400	*Neophylax sp*	0 +
37900	*Pycnopsyche sp*	0 +
40900	*Peltodytes sp*	0 +
43300	*Hydroporus sp*	0 +
48025	*Ectopria nervosa*	1 +
48075	*Psephenus herricki*	0 +
48601	*Ancyronyx variegata*	8
48901	*Macronychus glabratus*	2 +
49400	*Stenelmis sp*	1 +
50600	*Antocha sp*	3 +
57500	*Conchapelopia sp*	84 +
57800	*Helopelopia sp*	25
58350	*Meropelopia sp*	9
58401	*Natarsia species A (sensu Roback, 1978)*	0 +
58402	*Natarsia baltimoreus*	0 +
58450	*Nilotanypus fimbriatus*	9
59400	*Zavrelimyia sp*	9
60204	*Brillia flavifrons group*	9
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	2
80370	*Corynoneura lobata*	87
80410	*Cricotopus (C.) sp*	16
80430	*Cricotopus (C.) tremulus group*	9
80500	*Cricotopus (Isocladius) reversus group*	0 +
81270	*Nanocladius (N.) spiniplenus*	25
81632	*Parakiefferiella n.sp 2*	9
81650	*Parametriocnemus sp*	9 +
82141	*Thienemanniella xena*	47
82770	*Chironomus (C.) riparius group*	16
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	9
83840	*Microtendipes pedellus group*	59 +
84155	*Paralauterborniella nigrohalteralis*	9
84210	*Paratendipes albimanus or P. duplicatus*	84 +
84300	*Phaenopsectra obediens group*	0 +
84450	*Polypedilum (P.) convictum*	41 +
84460	*Polypedilum (P.) fallax group*	109
84475	*Polypedilum (P.) ophioides*	0 +
84480	*Polypedilum (P.) n.sp. same as tuberculum (Maschwitz, 1976)*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84750	*Stictochironomus sp*	0 +
85261	*Cladotanytarsus vanderwulpi group Type 1*	34
85500	*Paratanytarsus sp*	16
85501	*Paratanytarsus n.sp 1*	9
85625	*Rheotanytarsus exiguus group*	34 +
85800	*Tanytarsus sp*	50
85802	*Tanytarsus curticornis group*	90
85814	*Tanytarsus glabrescens group*	9
86100	*Chrysops sp*	0 +
87501	*Empididae*	13
93900	*Elimia sp*	1 +
95100	*Physella sp*	0 +

No. Quantitative Taxa: 50 Total Taxa: 74

No. Qualitative Taxa: 46 ICI: 46

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-401 River: Oldtown Creek RM: .40

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	42
01418	*Craspedacusta sowerbyi*	1
03600	*Oligochaeta*	112 +
05900	*Lirceus sp*	7 +
08250	*Orconectes (Procericambarus) rusticus*	1 +
08601	*Hydracarina*	0 +
11130	*Baetis intercalaris*	4
11250	*Centroptilum sp (w/o hindwing pads)*	0 +
12200	*Isonychia sp*	0 +
13400	*Stenacron sp*	110 +
13521	*Stenonema femoratum*	51
17200	*Caenis sp*	56 +
18600	*Ephemera sp*	0 +
21200	*Calopteryx sp*	0 +
24900	*Gomphus sp*	0 +
45100	*Palmacorixa sp*	0 +
45300	*Sigara sp*	0 +
47600	*Sialis sp*	0 +
50301	*Chimarra aterrima*	0 +
50906	*Psychomyia flavida*	2
51300	*Neureclipsis sp*	1
52200	*Cheumatopsyche sp*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	1 +
52440	*Hydropsyche (Ceratopsyche) slossonae*	0 +
52530	*Hydropsyche (H.) depravata group*	0 +
53800	*Hydroptila sp*	0 +
57900	*Pycnopsyche sp*	2 +
58505	*Helicopsyche borealis*	0 +
60900	*Peltodytes sp*	0 +
68700	*Dubiraphia sp*	7
68707	*Dubiraphia quadrinotata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	4
69225	*Optioservus fastiditus*	0 +
69400	*Stenelmis sp*	0 +
72700	*Anopheles sp*	0 +
77500	*Conchapelopia sp*	0 +
77800	*Helopelopia sp*	59
78140	*Labrundinia pilosella*	2
78401	*Natarsia species A (sensu Roback, 1978)*	0 +
78650	*Procladius sp*	10 +
79400	*Zavrelimyia sp*	10
80370	*Corynoneura lobata*	22
80410	*Cricotopus (C.) sp*	29 +
80420	*Cricotopus (C.) bicinctus*	0 +
81650	*Parametriocnemus sp*	0 +
81825	*Rheocricotopus (Psilocricotopus) robacki*	0 +
82130	*Thienemanniella similis*	2
82141	*Thienemanniella xena*	0 +
82200	*Tvetenia bavarica group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	10
83840	*Microtendipes pedellus group*	78
84210	*Paratendipes albimanus or P. duplicatus*	264
84300	*Phaenopsectra obediens group*	20 +
84440	*Polypedilum (P.) aviceps*	0 +
84460	*Polypedilum (P.) fallax group*	98 +
84475	*Polypedilum (P.) ophioides*	0 +
85261	*Cladotanytarsus vanderwulpi group Type 1*	20 +
85400	*Micropsectra sp*	0 +
85500	*Paratanytarsus sp*	29
85501	*Paratanytarsus n.sp 1*	10
85625	*Rheotanytarsus exiguus group*	0 +
85720	*Stempellinella n.sp nr. flavidula*	20 +
85802	*Tanytarsus curticornis group*	264
85814	*Tanytarsus glabrescens group*	78 +
86100	*Chrysops sp*	0 +
87501	*Empididae*	10
95100	*Physella sp*	75 +

No. Quantitative Taxa: 35 Total Taxa: 69
No. Qualitative Taxa: 49 ICI: 38

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/11/93 River Code: 11-404 River: South Fork Massies Creek RM: 1.10

Taxa Code	Taxa	Quan/Qual
03360	*Plumatella sp*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11020	*Acerpenna pygmaeus*	0 +
11130	*Baetis intercalaris*	0 +
11651	*Procloeon sp (w/o hindwing pads)*	0 +
11670	*Procloeon irrubrum*	0 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	0 +
13561	*Stenonema pulchellum*	0 +
17200	*Caenis sp*	0 +
22001	*Coenagrionidae*	0 +
35100	*Palmacorixa sp*	0 +
35300	*Sigara sp*	0 +
35400	*Trichocorixa sp*	0 +
42200	*Cheumatopsyche sp*	0 +
42430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
42530	*Hydropsyche (H.) depravata group*	0 +
47400	*Neophylax sp*	0 +
53300	*Hydroporus sp*	0 +
53075	*Psephenus herricki*	0 +
58601	*Ancyronyx variegata*	0 +
58702	*Dubiraphia bivittata*	0 +
58708	*Dubiraphia vittata group*	0 +
58901	*Macronychus glabratus*	0 +
59400	*Stenelmis sp*	0 +
67800	*Helopelopia sp*	0 +
68650	*Parametriocnemus sp*	0 +
68820	*Cryptochironomus sp*	0 +
68450	*Polypedilum (P.) convictum*	0 +
68475	*Polypedilum (P.) ophioides*	0 +
68625	*Rheotanytarsus exiguus group*	0 +
68720	*Stempellinella n.sp nr. flavidula*	0 +
68802	*Tanytarsus curticornis group*	0 +
68814	*Tanytarsus glabrescens group*	0 +
68840	*Tanytarsus guerlus group*	0 +
70100	*Physella sp*	0 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 0 Total Taxa: 39

No. Qualitative Taxa: 39 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/11/93 River Code: 11-404 River: South Fork Massies Creek RM: 2.10

Taxa Code	Taxa	Quan/Qual
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	0 +
04685	*Placobdella ornata*	0 +
04964	*Mooreobdella microstoma*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11120	*Baetis flavistriga*	0 +
11125	*Baetis frondalis*	0 +
11130	*Baetis intercalaris*	0 +
11200	*Callibaetis sp*	0 +
11300	*Baetidae (formerly in Centroptilum)*	0 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	0 +
13521	*Stenonema femoratum*	0 +
13561	*Stenonema pulchellum*	0 +
17200	*Caenis sp*	0 +
18750	*Hexagenia limbata*	0 +
22001	*Coenagrionidae*	0 +
42700	*Belostoma sp*	0 +
45100	*Palmacorixa sp*	0 +
45300	*Sigara sp*	0 +
52200	*Cheumatopsyche sp*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
52530	*Hydropsyche (H.) depravata group*	0 +
53800	*Hydroptila sp*	0 +
60400	*Gyrinus sp*	0 +
60900	*Peltodytes sp*	0 +
67000	*Helophorus sp*	0 +
67800	*Tropisternus sp*	0 +
68075	*Psephenus herricki*	0 +
68201	*Scirtidae*	0 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	0 +
69400	*Stenelmis sp*	0 +
72700	*Anopheles sp*	0 +
77001	*Tanypodinae*	0 +
78650	*Procladius sp*	0 +
82501	*Chironomini*	0 +
85625	*Rheotanytarsus exiguus group*	0 +
86100	*Chrysops sp*	0 +
93900	*Elimia sp*	0 +
94400	*Fossaria sp*	0 +
95100	*Physella sp*	0 +
98600	*Sphaerium sp*	0 +
99860	*Lampsilis radiata luteola*	0 +

No. Quantitative Taxa: 0 Total Taxa: 49

No. Qualitative Taxa: 49 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-400 River: Massie Creek RM: .30

Taxa Code	Taxa	Quan/Qual
00401	*Spongillidae*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	0 +
12200	*Isonychia sp*	0 +
13400	*Stenacron sp*	0 +
13561	*Stenonema pulchellum*	0 +
45300	*Sigara sp*	0 +
48410	*Corydalus cornutus*	0 +
48620	*Nigronia serricornis*	0 +
50315	*Chimarra obscura*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
52450	*Hydropsyche (Ceratopsyche) sparna*	0 +
57400	*Neophylax sp*	0 +
57900	*Pycnopsyche sp*	0 +
58025	*Ectopria nervosa*	0 +
58075	*Psephenus herricki*	0 +
59400	*Stenelmis sp*	0 +
71910	*Tipula abdominalis*	0 +
74100	*Simulium sp*	0 +
80310	*Cardiocladius obscurus*	0 +
81690	*Paratrichocladius sp*	0 +
82141	*Thienemanniella xena*	0 +
82220	*Tvetenia discoloripes group*	0 +
82820	*Cryptochironomus sp*	0 +
84300	*Phaenopsectra obediens group*	0 +
84450	*Polypedilum (P.) convictum*	0 +
84888	*Xenochironomus xenolabis*	0 +
85625	*Rheotanytarsus exiguus group*	0 +
85752	*Sublettea coffmani*	0 +
85800	*Tanytarsus sp*	0 +
85814	*Tanytarsus glabrescens group*	0 +
93900	*Elimia sp*	0 +
98600	*Sphaerium sp*	0 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 0 Total Taxa: 33

No. Qualitative Taxa: 33 ICI:

Appendix Table A-16. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-035 River: Beaver Creek RM: 1.60

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	10
03600	*Oligochaeta*	23 +
05900	*Lirceus sp*	115 +
06700	*Crangonyx sp*	0 +
07820	*Cambarus (Cambarus) bartonii cavatus*	0 +
08250	*Orconectes (Procericambarus) rusticus*	3 +
11120	*Baetis flavistriga*	13
11400	*Baetidae (formerly in Cloeon)*	0 +
13400	*Stenacron sp*	300 +
13510	*Stenonema exiguum*	0 +
17200	*Caenis sp*	5
21200	*Calopteryx sp*	10
22300	*Argia sp*	1
23909	*Boyeria vinosa*	0 +
24930	*Gomphus lividus*	0 +
44501	*Corixidae*	0 +
50804	*Lype diversa*	19 +
52200	*Cheumatopsyche sp*	86 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	2 +
52530	*Hydropsyche (H.) depravata group*	1 +
57900	*Pycnopsyche sp*	0 +
68601	*Ancyronyx variegata*	1
68708	*Dubiraphia vittata group*	12 +
68901	*Macronychus glabratus*	10 +
69400	*Stenelmis sp*	1
77120	*Ablabesmyia mallochi*	9 +
77500	*Conchapelopia sp*	17 +
77800	*Helopelopia sp*	52
78140	*Labrundinia pilosella*	17
78650	*Procladius sp*	0 +
80204	*Brillia flavifrons group*	9
80370	*Corynoneura lobata*	9
80410	*Cricotopus (C.) sp*	0 +
80430	*Cricotopus (C.) tremulus group*	0 +
81825	*Rheocricotopus (Psilocricotopus) robacki*	17
82141	*Thienemanniella xena*	9
82730	*Chironomus (C.) decorus group*	9 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	9
83840	*Microtendipes pedellus group*	17
84210	*Paratendipes albimanus or P. duplicatus*	78
84450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	121
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	9
85261	*Cladotanytarsus vanderwulpi group Type 1*	9
85500	*Paratanytarsus sp*	147 +
85625	*Rheotanytarsus exiguus group*	285 +
85800	*Tanytarsus sp*	43 +
85802	*Tanytarsus curticornis group*	9
85814	*Tanytarsus glabrescens group*	95 +
85840	*Tanytarsus guerlus group*	9
86100	*Chrysops sp*	0 +
87501	*Empididae*	5 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	36 +

No. Quantitative Taxa:	40	Total Taxa:	56
No. Qualitative Taxa:	35	ICI:	48

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-035 River: Beaver Creek RM: .50

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	2 +
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	192 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	9 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
08601	*Hydracarina*	16
11120	*Baetis flavistriga*	132
11130	*Baetis intercalaris*	297 +
11200	*Callibaetis sp*	0 +
12200	*Isonychia sp*	3
13400	*Stenacron sp*	19
13521	*Stenonema femoratum*	1 +
15700	*Tricorythodes sp*	9
17200	*Caenis sp*	8 +
21200	*Calopteryx sp*	0 +
21300	*Hetaerina sp*	0 +
23300	*Argia sp*	0 +
23909	*Boyeria vinosa*	0 +
25400	*Trichocorixa sp*	0 +
33410	*Corydalus cornutus*	1 +
34200	*Cheumatopsyche sp*	149 +
34430	*Hydropsyche (Ceratopsyche) morosa group*	2835 +
34530	*Hydropsyche (H.) depravata group*	696 +
34800	*Hydroptila sp*	5 +
34900	*Pycnopsyche sp*	0 +
35900	*Peltodytes sp*	0 +
36700	*Paracymus sp*	0 +
36800	*Tropisternus sp*	0 +
37601	*Ancyronyx variegata*	8 +
37700	*Dubiraphia sp*	8
39901	*Macronychus glabratus*	21
41400	*Stenelmis sp*	0 +
41800	*Limonia sp*	0 +
41900	*Tipula sp*	0 +
41910	*Tipula abdominalis*	0 +
42100	*Simulium sp*	18 +
42120	*Ablabesmyia mallochi*	0 +
42600	*Conchapelopia sp*	263 +
42800	*Helopelopia sp*	164 +
43450	*Nilotanypus fimbriatus*	33
80310	*Cardiocladius obscurus*	0 +
80370	*Corynoneura lobata*	0 +
80410	*Cricotopus (C.) sp*	66
80420	*Cricotopus (C.) bicinctus*	99
80430	*Cricotopus (C.) tremulus group*	132 +
80440	*Cricotopus (C.) trifascia group*	0 +
81825	*Rheocricotopus (Psilocricotopus) robacki*	99 +
82141	*Thienemanniella xena*	33
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83003	*Dicrotendipes fumidus*	0 +
83040	*Dicrotendipes neomodestus*	33 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
84450	*Polypedilum (P.) convictum*	66 +
84460	*Polypedilum (P.) fallax group*	33
84470	*Polypedilum (P.) illinoense*	66 +
84540	*Polypedilum (Tripodura) scalaenum group*	66
84700	*Stenochironomus sp*	0 +
85500	*Paratanytarsus sp*	263 +
85625	*Rheotanytarsus exiguus group*	1283 +
85800	*Tanytarsus sp*	132
85814	*Tanytarsus glabrescens group*	329
85840	*Tanytarsus guerlus group*	99
86100	*Chrysops sp*	0 +
87501	*Empididae*	79 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	129 +

No. Quantitative Taxa: 40 Total Taxa: 69

No. Qualitative Taxa: 53 ICI: 48

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-035 River: Beaver Creek RM: .40

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	1
03360	*Plumatella sp*	1
03600	*Oligochaeta*	376
05900	*Lirceus sp*	9
08601	*Hydracarina*	56
11120	*Baetis flavistriga*	104 +
11130	*Baetis intercalaris*	6
12200	*Isonychia sp*	0 +
13561	*Stenonema pulchellum*	0 +
21200	*Calopteryx sp*	0 +
22001	*Coenagrionidae*	0 +
23909	*Boyeria vinosa*	0 +
47600	*Sialis sp*	0 +
48410	*Corydalus cornutus*	1
52200	*Cheumatopsyche sp*	49 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	16
52530	*Hydropsyche (H.) depravata group*	81 +
52570	*Hydropsyche (H.) simulans*	33
53800	*Hydroptila sp*	24
59970	*Petrophila sp*	8
67700	*Paracymus sp*	0 +
68601	*Ancyronyx variegata*	3 +
68901	*Macronychus glabratus*	1 +
69400	*Stenelmis sp*	32 +
71900	*Tipula sp*	1 +
74100	*Simulium sp*	560 +
77500	*Conchapelopia sp*	173 +
77800	*Helopelopia sp*	173 +
80204	*Brillia flavifrons group*	58
80410	*Cricotopus (C.) sp*	288 +
80420	*Cricotopus (C.) bicinctus*	115
80430	*Cricotopus (C.) tremulus group*	1154 +
80440	*Cricotopus (C.) trifascia group*	115
81825	*Rheocricotopus (Psilocricotopus) robacki*	115 +
82141	*Thienemanniella xena*	577
82220	*Tvetenia discoloripes group*	0 +
82770	*Chironomus (C.) riparius group*	58 +
83003	*Dicrotendipes fumidus*	0 +
83300	*Glyptotendipes (Phytotendipes) sp*	58
84210	*Paratendipes albimanus or P. duplicatus*	0 +
84300	*Phaenopsectra obediens group*	0 +
84450	*Polypedilum (P.) convictum*	115 +
84460	*Polypedilum (P.) fallax group*	58
84470	*Polypedilum (P.) illinoense*	58 +
85500	*Paratanytarsus sp*	58
85625	*Rheotanytarsus exiguus group*	3288 +
85814	*Tanytarsus glabrescens group*	115
87501	*Empididae*	158 +
96900	*Ferrissia sp*	10 +

No. Quantitative Taxa:	38	Total Taxa:	49
No. Qualitative Taxa:	30	ICI:	36

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-035 River: Beaver Creek RM: .20

Taxa Code	Taxa	Quan/Qual
04685	*Placobdella ornata*	0 +
05900	*Lirceus sp*	0 +
11120	*Baetis flavistriga*	0 +
11130	*Baetis intercalaris*	0 +
12200	*Isonychia sp*	0 +
13400	*Stenacron sp*	0 +
13570	*Stenonema terminatum*	0 +
11200	*Calopteryx sp*	0 +
12001	*Coenagrionidae*	0 +
12300	*Argia sp*	0 +
13909	*Boyeria vinosa*	0 +
15400	*Trichocorixa sp*	0 +
12530	*Hydropsyche (H.) depravata group*	0 +
18601	*Ancyronyx variegata*	0 +
18708	*Dubiraphia vittata group*	0 +
18901	*Macronychus glabratus*	0 +
19400	*Stenelmis sp*	0 +
11900	*Tipula sp*	0 +
14100	*Simulium sp*	0 +
17120	*Ablabesmyia mallochi*	0 +
17500	*Conchapelopia sp*	0 +
18650	*Procladius sp*	0 +
10410	*Cricotopus (C.) sp*	0 +
10420	*Cricotopus (C.) bicinctus*	0 +
10430	*Cricotopus (C.) tremulus group*	0 +
10440	*Cricotopus (C.) trifascia group*	0 +
12730	*Chironomus (C.) decorus group*	0 +
12820	*Cryptochironomus sp*	0 +
13840	*Microtendipes pedellus group*	0 +
13210	*Paratendipes albimanus or P. duplicatus*	0 +
11470	*Polypedilum (P.) illinoense*	0 +
16261	*Cladotanytarsus vanderwulpi group Type 1*	0 +
16500	*Paratanytarsus sp*	0 +
16625	*Rheotanytarsus exiguus group*	0 +
15900	*Ferrissia sp*	0 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 0 Total Taxa: 35

No. Qualitative Taxa: 35 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-036 River: Little Beaver Creek RM: 4.70

Taxa Code	Taxa	Quan/Qual
00401	*Spongillidae*	0 +
01801	*Turbellaria*	39 +
03040	*Fredericella sp*	55
03360	*Plumatella sp*	25 +
03600	*Oligochaeta*	576
04685	*Placobdella ornata*	0 +
04964	*Mooreobdella microstoma*	0 +
08601	*Hydracarina*	16 +
11120	*Baetis flavistriga*	16 +
11130	*Baetis intercalaris*	106
11200	*Callibaetis sp*	0 +
12200	*Isonychia sp*	7 +
13510	*Stenonema exiguum*	9
13561	*Stenonema pulchellum*	9
16700	*Tricorythodes sp*	1 +
17200	*Caenis sp*	163 +
21300	*Hetaerina sp*	16
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	6 +
42700	*Belostoma sp*	0 +
49200	*Climacia sp*	0 +
52200	*Cheumatopsyche sp*	319 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	17 +
53800	*Hydroptila sp*	120 +
59500	*Oecetis sp*	0 +
60900	*Peltodytes sp*	0 +
61103	*Acilius semisulcatus*	0 +
65800	*Berosus sp*	16 +
67800	*Tropisternus sp*	0 +
71900	*Tipula sp*	0 +
74100	*Simulium sp*	17
77500	*Conchapelopia sp*	0 +
77800	*Helopelopia sp*	1302 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	77
80410	*Cricotopus (C.) sp*	77
80420	*Cricotopus (C.) bicinctus*	383 +
80430	*Cricotopus (C.) tremulus group*	153
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	77
81240	*Nanocladius (N.) distinctus*	77 +
81825	*Rheocricotopus (Psilocricotopus) robacki*	77
82141	*Thienemanniella xena*	64
83040	*Dicrotendipes neomodestus*	383 +
83051	*Dicrotendipes simpsoni*	77
83300	*Glyptotendipes (Phytotendipes) sp*	1455 +
84450	*Polypedilum (P.) convictum*	306 +
84470	*Polypedilum (P.) illinoense*	919 +
84888	*Xenochironomus xenolabis*	0 +
85625	*Rheotanytarsus exiguus group*	843 +
85814	*Tanytarsus glabrescens group*	230
85840	*Tanytarsus guerlus group*	77
87501	*Empididae*	17 +
94400	*Fossaria sp*	1
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	3
98600	*Sphaerium sp*	656 +

No. Quantitative Taxa:	40	Total Taxa:	55
No. Qualitative Taxa:	37	ICI:	40

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-036 River: Little Beaver Creek RM: 4.58

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	2800 +
03600	*Oligochaeta*	2624 +
04935	*Erpobdella punctata punctata*	0 +
53800	*Hydroptila sp*	62
55800	*Berosus sp*	4
74100	*Simulium sp*	1299 +
77120	*Ablabesmyia mallochi*	0 +
77500	*Conchapelopia sp*	519 +
77800	*Helopelopia sp*	173 +
80420	*Cricotopus (C.) bicinctus*	346
82820	*Cryptochironomus sp*	0 +
83051	*Dicrotendipes simpsoni*	173
84470	*Polypedilum (P.) illinoense*	15558 +
88600	*Sphaerium sp*	5 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 11 Total Taxa: 14

No. Qualitative Taxa: 10 ICI: **4**

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-036 River: Little Beaver Creek RM: 4.40

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03600	*Oligochaeta*	0 +
04935	*Erpobdella punctata punctata*	0 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	0 +
53800	*Hydroptila sp*	0 +
65800	*Berosus sp*	0 +
74100	*Simulium sp*	0 +
77500	*Conchapelopia sp*	0 +
77800	*Helopelopia sp*	0 +
78650	*Procladius sp*	0 +
80420	*Cricotopus (C.) bicinctus*	0 +
80430	*Cricotopus (C.) tremulus group*	0 +
80440	*Cricotopus (C.) trifascia group*	0 +
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
84470	*Polypedilum (P.) illinoense*	0 +
98600	*Sphaerium sp*	0 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 0 Total Taxa: 18

No. Qualitative Taxa: 18 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-036 River: Little Beaver Creek RM: 2.00

Taxa Code	Taxa	Quan/Qual
1801	*Turbellaria*	61 +
3600	*Oligochaeta*	138
4935	*Erpobdella punctata punctata*	0 +
4964	*Mooreobdella microstoma*	5
7200	*Caenis sp*	8
2001	*Coenagrionidae*	0 +
8200	*Chauliodes sp*	4
3800	*Hydroptila sp*	1 +
6500	*Enochrus sp*	0 +
9400	*Stenelmis sp*	0 +
1900	*Tipula sp*	1 +
4100	*Simulium sp*	69 +
7120	*Ablabesmyia mallochi*	8 +
7500	*Conchapelopia sp*	110 +
7800	*Helopelopia sp*	93
0420	*Cricotopus (C.) bicinctus*	8 +
0430	*Cricotopus (C.) tremulus group*	34 +
0440	*Cricotopus (C.) trifascia group*	0 +
1231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	8
1240	*Nanocladius (N.) distinctus*	8
1825	*Rheocricotopus (Psilocricotopus) robacki*	17
2710	*Chironomus (C.) sp*	8
2730	*Chironomus (C.) decorus group*	0 +
2820	*Cryptochironomus sp*	8 +
3040	*Dicrotendipes neomodestus*	34
3300	*Glyptotendipes (Phytotendipes) sp*	25
3315	*Phaenopsectra flavipes*	25
3450	*Polypedilum (P.) convictum*	8
3470	*Polypedilum (P.) illinoense*	76 +
3540	*Polypedilum (Tripodura) scalaenum group*	110
3500	*Paratanytarsus sp*	34
3625	*Rheotanytarsus exiguus group*	59
3614	*Tanytarsus glabrescens group*	76
6900	*Ferrissia sp*	370

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 28 Total Taxa: 34

No. Qualitative Taxa: 16 ICI: **20**

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-036 River: Little Beaver Creek RM: .10

Taxa Code	Taxa	Quan/Qual
00556	*Ephydatia fluviatilis*	0 +
01801	*Turbellaria*	12
03600	*Oligochaeta*	157 +
04964	*Mooreobdella microstoma*	0 +
05900	*Lirceus sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11120	*Baetis flavistriga*	3 +
11130	*Baetis intercalaris*	3 +
11200	*Callibaetis sp*	0 +
13521	*Stenonema femoratum*	2
21200	*Calopteryx sp*	3 +
22001	*Coenagrionidae*	2 +
22300	*Argia sp*	0 +
23909	*Boyeria vinosa*	0 +
45400	*Trichocorixa sp*	0 +
52200	*Cheumatopsyche sp*	34 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	30 +
52530	*Hydropsyche (H.) depravata group*	0 +
53800	*Hydroptila sp*	4
60900	*Peltodytes sp*	0 +
65800	*Berosus sp*	2 +
66500	*Enochrus sp*	0 +
68700	*Dubiraphia sp*	18
71900	*Tipula sp*	0 +
72700	*Anopheles sp*	0 +
74100	*Simulium sp*	0 +
77120	*Ablabesmyia mallochi*	0 +
77500	*Conchapelopia sp*	166 +
77800	*Helopelopia sp*	199 +
80204	*Brillia flavifrons group*	33
80370	*Corynoneura lobata*	8
80420	*Cricotopus (C.) bicinctus*	33 +
80430	*Cricotopus (C.) tremulus group*	66 +
80440	*Cricotopus (C.) trifascia group*	0 +
81825	*Rheocricotopus (Psilocricotopus) robacki*	33 +
82141	*Thienemanniella xena*	0 +
82730	*Chironomus (C.) decorus group*	0 +
83003	*Dicrotendipes fumidus*	0 +
83040	*Dicrotendipes neomodestus*	199 +
83050	*Dicrotendipes lucifer*	66
84040	*Parachironomus frequens*	0 +
84210	*Paratendipes albimanus or P. duplicatus*	33
84300	*Phaenopsectra obediens group*	33
84315	*Phaenopsectra flavipes*	33
84450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	33
84470	*Polypedilum (P.) illinoense*	33 +
84540	*Polypedilum (Tripodura) scalaenum group*	99
85500	*Paratanytarsus sp*	596 +
85625	*Rheotanytarsus exiguus group*	960 +
85800	*Tanytarsus sp*	232
85814	*Tanytarsus glabrescens group*	464 +
85840	*Tanytarsus guerlus group*	0 +
87501	*Empididae*	22 +
89716	*Limnophora discreta*	0 +
94400	*Fossaria sp*	0 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	126 +

No. Quantitative Taxa:	33	Total Taxa:	58
No. Qualitative Taxa:	45	ICI:	38

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/30/93 River Code: 11-032 River: Glady Run RM: 4.90

Taxa Code	Taxa	Quan/Qual
1320	*Hydra sp*	2
3600	*Oligochaeta*	25 +
5900	*Lirceus sp*	242 +
7875	*Cambarus (Tubericambarus) sp A*	0 +
1115	*Baetis brunneicolor*	2 +
1430	*Diphetor hageni*	3 +
1200	*Calopteryx sp*	1 +
3600	*Aeshna sp*	0 +
2205	*Amphinemura delosa*	0 +
4500	*Perlesta placida complex*	1
7600	*Sialis sp*	12 +
0804	*Lype diversa*	24
1600	*Polycentropus sp*	21
2200	*Cheumatopsyche sp*	0 +
2315	*Diplectrona modesta*	0 +
2530	*Hydropsyche (H.) depravata group*	0 +
3800	*Haliplus sp*	0 +
300	*Hydroporus sp*	0 +
100	*Hydrobius sp*	0 +
700	*Dubiraphia sp*	1
225	*Optioservus fastiditus*	0 +
700	*Dicranota sp*	0 +
910	*Tipula abdominalis*	0 +
330	*Dixa sp*	0 +
500	*Conchapelopia sp*	7
350	*Meropelopia sp*	21 +
400	*Zavrelimyia sp*	21
864	*Odontomesa ferringtoni*	0 +
880	*Prodiamesa olivacea*	0 +
204	*Brillia flavifrons group*	14
370	*Corynoneura lobata*	24
430	*Cricotopus (C.) tremulus group*	34
650	*Parametriocnemus sp*	14
102	*Thienemanniella partita*	6
141	*Thienemanniella xena*	54
200	*Tvetenia bavarica group*	7
210	*Paratendipes albimanus or P. duplicatus*	69 +
315	*Phaenopsectra flavipes*	34
430	*Polypedilum (P.) albicorne*	21 +
460	*Polypedilum (P.) fallax group*	62
470	*Polypedilum (P.) illinoense*	14
750	*Stictochironomus sp*	0 +
85400	*Micropsectra sp*	34
85500	*Paratanytarsus sp*	55
85501	*Paratanytarsus n.sp 1*	131
85625	*Rheotanytarsus exiguus group*	103 +
85800	*Tanytarsus sp*	21
85802	*Tanytarsus curticornis group*	7
85840	*Tanytarsus guerlus group*	27
95100	*Physella sp*	32 +
98200	*Pisidium sp*	1 +

No. Quantitative Taxa:	35	Total Taxa:	51
No. Qualitative Taxa:	28	ICI:	36

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/30/93 River Code: 11-032 River: Glady Run RM: 4.70

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	4 +
03600	*Oligochaeta*	100 +
04935	*Erpobdella punctata punctata*	0 +
04964	*Mooreobdella microstoma*	0 +
05800	*Caecidotea sp*	39 +
06700	*Crangonyx sp*	0 +
11001	*Baetidae*	2
13521	*Stenonema femoratum*	1 +
21200	*Calopteryx sp*	60 +
23909	*Boyeria vinosa*	1 +
47600	*Sialis sp*	1
50804	*Lype diversa*	1
52200	*Cheumatopsyche sp*	1
52530	*Hydropsyche (H.) depravata group*	0 +
60800	*Haliplus sp*	0 +
61400	*Agabus sp*	0 +
68130	*Helichus sp*	0 +
68700	*Dubiraphia sp*	1
69400	*Stenelmis sp*	0 +
74100	*Simulium sp*	21 +
77500	*Conchapelopia sp*	96 +
77800	*Helopelopia sp*	96 +
78350	*Meropelopia sp*	0 +
78401	*Natarsia species A (sensu Roback, 1978)*	0 +
79400	*Zavrelimyia sp*	16
80204	*Brillia flavifrons group*	64
80370	*Corynoneura lobata*	4
80410	*Cricotopus (C.) sp*	224
80420	*Cricotopus (C.) bicinctus*	48 +
80430	*Cricotopus (C.) tremulus group*	320 +
80740	*Eukiefferiella claripennis group*	0 +
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	16
81632	*Parakiefferiella n.sp 2*	16
81825	*Rheocricotopus (Psilocricotopus) robacki*	64 +
82141	*Thienemanniella xena*	20
82730	*Chironomus (C.) decorus group*	0 +
82770	*Chironomus (C.) riparius group*	32 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	32
84210	*Paratendipes albimanus or P. duplicatus*	32
84315	*Phaenopsectra flavipes*	32
84430	*Polypedilum (P.) albicorne*	32
84440	*Polypedilum (P.) aviceps*	0 +
84450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	16
84470	*Polypedilum (P.) illinoense*	96 +
84540	*Polypedilum (Tripodura) scalaenum group*	16
84612	*Saetheria tylus*	16
85500	*Paratanytarsus sp*	80
85625	*Rheotanytarsus exiguus group*	16
85814	*Tanytarsus glabrescens group*	64
87501	*Empididae*	4
89704	*Limnophora aequifrons*	0 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	17
98001	*Sphaeriidae*	4

No. Quantitative Taxa:	39	Total Taxa:	56
No. Qualitative Taxa:	31	ICI:	28

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/30/93 River Code: 11-032 River: Glady Run RM: .30

Taxa Code	Taxa	Quan/Qual
1320	*Hydra sp*	4
1801	*Turbellaria*	1 +
3600	*Oligochaeta*	32 +
4964	*Mooreobdella microstoma*	0 +
5900	*Lirceus sp*	171 +
6700	*Crangonyx sp*	128 +
8250	*Orconectes (Procericambarus) rusticus*	1 +
8601	*Hydracarina*	0 +
1120	*Baetis flavistriga*	5 +
1130	*Baetis intercalaris*	0 +
3400	*Stenacron sp*	2
3521	*Stenonema femoratum*	7
1200	*Calopteryx sp*	11 +
2300	*Argia sp*	2
3909	*Boyeria vinosa*	0 +
5300	*Sigara sp*	0 +
2200	*Cheumatopsyche sp*	0 +
2430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
2450	*Hydropsyche (Ceratopsyche) sparna*	0 +
2530	*Hydropsyche (H.) depravata group*	0 +
2130	*Helichus sp*	0 +
2700	*Dubiraphia sp*	0 +
2225	*Optioservus fastiditus*	0 +
2400	*Stenelmis sp*	0 +
2100	*Simulium sp*	0 +
2500	*Conchapelopia sp*	0 +
2800	*Helopelopia sp*	75 +
3140	*Labrundinia pilosella*	15
3401	*Natarsia species A (sensu Roback, 1978)*	0 +
3650	*Procladius sp*	7
3400	*Zavrelimyia sp*	7
3204	*Brillia flavifrons group*	7 +
3870	*Corynoneura lobata*	104
4120	*Cricotopus (C.) bicinctus*	0 +
4130	*Cricotopus (C.) tremulus group*	0 +
4140	*Cricotopus (C.) trifascia group*	0 +
4231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	7
4550	*Parametriocnemus sp*	0 +
4590	*Paratrichocladius sp*	7
4741	*Thienemanniella xena*	4
5100	*Tvetenia bavarica group*	0 +

Taxa Code	Taxa	Quan/Qual
82710	*Chironomus (C.) sp*	15 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	7
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
84155	*Paralauterborniella nigrohalteralis*	15
84210	*Paratendipes albimanus or P. duplicatus*	60
84300	*Phaenopsectra obediens group*	0 +
84315	*Phaenopsectra flavipes*	22
84460	*Polypedilum (P.) fallax group*	165
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84750	*Stictochironomus sp*	7 +
85261	*Cladotanytarsus vanderwulpi group Type 1*	67 +
85500	*Paratanytarsus sp*	179
85625	*Rheotanytarsus exiguus group*	30
85800	*Tanytarsus sp*	22
85802	*Tanytarsus curticornis group*	30
85814	*Tanytarsus glabrescens group*	67
85840	*Tanytarsus guerlus group*	45
86100	*Chrysops sp*	4
87501	*Empididae*	0 +
89704	*Limnophora aequifrons*	0 +
95100	*Physella sp*	19 +
96900	*Ferrissia sp*	63
98200	*Pisidium sp*	0 +

No. Quantitative Taxa:	37	Total Taxa:	66
No. Qualitative Taxa:	42	ICI:	24

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/30/93 River Code: 11-050 River: Trib. to Glady Run RM: .30

Taxa Code	Taxa	Quan/Qual	Taxa Code	Taxa	Quan/Qual
03600	*Oligochaeta*	0 +			
05900	*Lirceus sp*	0 +			
07820	*Cambarus (Cambarus) bartonii cavatus*	0 +			
11130	*Baetis intercalaris*	0 +			
17200	*Caenis sp*	0 +			
21200	*Calopteryx sp*	0 +			
23600	*Aeshna sp*	0 +			
23909	*Boyeria vinosa*	0 +			
24900	*Gomphus sp*	0 +			
45300	*Sigara sp*	0 +			
52530	*Hydropsyche (H.) depravata group*	0 +			
60800	*Haliplus sp*	0 +			
61400	*Agabus sp*	0 +			
63300	*Hydroporus sp*	0 +			
68707	*Dubiraphia quadrinotata*	0 +			
68708	*Dubiraphia vittata group*	0 +			
69400	*Stenelmis sp*	0 +			
70501	*Tipulidae*	0 +			
72330	*Dixa sp*	0 +			
74100	*Simulium sp*	0 +			
77500	*Conchapelopia sp*	0 +			
78350	*Meropelopia sp*	0 +			
78401	*Natarsia species A (sensu Roback, 1978)*	0 +			
79864	*Odontomesa ferringtoni*	0 +			
80420	*Cricotopus (C.) bicinctus*	0 +			
80430	*Cricotopus (C.) tremulus group*	0 +			
80740	*Eukiefferiella claripennis group*	0 +			
82730	*Chironomus (C.) decorus group*	0 +			
82820	*Cryptochironomus sp*	0 +			
84470	*Polypedilum (P.) illinoense*	0 +			
84540	*Polypedilum (Tripodura) scalaenum group*	0 +			
84612	*Saetheria tylus*	0 +			
84750	*Stictochironomus sp*	0 +			
89704	*Limnophora aequifrons*	0 +			
95100	*Physella sp*	0 +			

No. Quantitative Taxa: 0 Total Taxa: 35

No. Qualitative Taxa: 35 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-030 River: Newman Run RM: .30

Taxa Code	Taxa	Quan/Qual
05800	*Caecidotea sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
17200	*Caenis sp*	0 +
52200	*Cheumatopsyche sp*	0 +
52530	*Hydropsyche (H.) depravata group*	0 +
67900	*Pycnopsyche sp*	0 +
68075	*Psephenus herricki*	0 +
68901	*Macronychus glabratus*	0 +
82710	*Chironomus (C.) sp*	0 +
84210	*Paratendipes albimanus or P. duplicatus*	0 +
84750	*Stictochironomus sp*	0 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 0 Total Taxa: 11

No. Qualitative Taxa: 11 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-306 River: Anderson Fork RM: 5.00

Taxa Code	Taxa	Quan/Qual
00401	*Spongillidae*	0 +
01320	*Hydra sp*	84
01801	*Turbellaria*	8
03360	*Plumatella sp*	4
03451	*Urnatella gracilis*	1
03600	*Oligochaeta*	32 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
08601	*Hydracarina*	0 +
11120	*Baetis flavistriga*	0 +
11130	*Baetis intercalaris*	0 +
11400	*Baetidae (formerly in Cloeon)*	6 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	143 +
13521	*Stenonema femoratum*	77 +
13561	*Stenonema pulchellum*	23
13570	*Stenonema terminatum*	12
16700	*Tricorythodes sp*	10
17200	*Caenis sp*	85 +
21200	*Calopteryx sp*	0 +
21300	*Hetaerina sp*	0 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	20 +
42700	*Belostoma sp*	0 +
47600	*Sialis sp*	0 +
50315	*Chimarra obscura*	0 +
52200	*Cheumatopsyche sp*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
59970	*Petrophila sp*	2
68075	*Psephenus herricki*	0 +
68601	*Ancyronyx variegata*	0 +
68702	*Dubiraphia bivittata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	4 +
69400	*Stenelmis sp*	0 +
71100	*Hexatoma sp*	0 +
77120	*Ablabesmyia mallochi*	25
77500	*Conchapelopia sp*	0 +
77750	*Hayesomyia senata or Thienemannimyia norena*	8
77800	*Helopelopia sp*	13 +
78140	*Labrundinia pilosella*	10
78450	*Nilotanypus fimbriatus*	0 +
78650	*Procladius sp*	8 +
80370	*Corynoneura lobata*	10
81650	*Parametriocnemus sp*	0 +
82100	*Thienemanniella sp*	0 +
82600	*Axarus sp*	0 +
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	4 +
82880	*Cryptotendipes sp*	0 +
83040	*Dicrotendipes neomodestus*	81 +
83051	*Dicrotendipes simpsoni*	8
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	4 +
84060	*Parachironomus pectinatellae*	4
84210	*Paratendipes albimanus or P. duplicatus*	8 +
84300	*Phaenopsectra obediens group*	4
84450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	64
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	21
84750	*Stictochironomus sp*	0 +
84790	*Tribelos fuscicorne*	38
84888	*Xenochironomus xenolabis*	0 +
85500	*Paratanytarsus sp*	55
85720	*Stempellinella n.sp nr. flavidula*	17
85800	*Tanytarsus sp*	4
85814	*Tanytarsus glabrescens group*	25
85840	*Tanytarsus guerlus group*	4
86100	*Chrysops sp*	0 +
87501	*Empididae*	0 +
93900	*Elimia sp*	0 +
96900	*Ferrissia sp*	20

No. Quantitative Taxa:	37	Total Taxa:	72
No. Qualitative Taxa:	48	ICI:	30

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-301 River: Flat Fork RM: 1.70

Taxa Code	Taxa	Quan/Qual
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	0 +
04685	*Placobdella ornata*	0 +
04686	*Placobdella papillifera*	0 +
04935	*Erpobdella punctata punctata*	0 +
04964	*Mooreobdella microstoma*	0 +
85900	*Lirceus sp*	0 +
98250	*Orconectes (Procericambarus) rusticus*	0 +
13400	*Stenacron sp*	0 +
13521	*Stenonema femoratum*	0 +
18955	*Plathemis lydia*	0 +
55300	*Sigara sp*	0 +
00900	*Peltodytes sp*	0 +
03900	*Laccophilus sp*	0 +
07800	*Tropisternus sp*	0 +
14750	*Stictochironomus sp*	0 +
18900	*Elimia sp*	0 +
56100	*Physella sp*	0 +
95264	*Planorbella (Pierosoma) pilsbryi*	0 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 0 Total Taxa: 19

No. Qualitative Taxa: 19 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-300 River: Caesar Creek RM: 16.50

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	16
01801	*Turbellaria*	1
03360	*Plumatella sp*	1
06201	*Hyalella azteca*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11200	*Callibaetis sp*	0 +
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	55 +
13510	*Stenonema exiguum*	1 +
13521	*Stenonema femoratum*	7 +
13561	*Stenonema pulchellum*	4 +
13570	*Stenonema terminatum*	0 +
16700	*Tricorythodes sp*	0 +
17200	*Caenis sp*	5 +
18600	*Ephemera sp*	0 +
21200	*Calopteryx sp*	1 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	17 +
23804	*Basiaeschna janata*	0 +
23909	*Boyeria vinosa*	0 +
45100	*Palmacorixa sp*	0 +
45300	*Sigara sp*	0 +
47600	*Sialis sp*	0 +
52200	*Cheumatopsyche sp*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
52570	*Hydropsyche (H.) simulans*	0 +
57900	*Pycnopsyche sp*	0 +
60400	*Gyrinus sp*	0 +
65800	*Berosus sp*	0 +
67700	*Paracymus sp*	0 +
67800	*Tropisternus sp*	0 +
68300	*Cyphon sp*	0 +
68601	*Ancyronyx variegata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	1 +
69400	*Stenelmis sp*	0 +
71100	*Hexatoma sp*	0 +
77120	*Ablabesmyia mallochi*	18 +
77150	*Ablabesmyia simpsoni*	0 +
77500	*Conchapelopia sp*	0 +
77800	*Helopelopia sp*	12 +
78401	*Natarsia species A (sensu Roback, 1978)*	0 +
78450	*Nilotanypus fimbriatus*	0 +
78650	*Procladius sp*	0 +
79085	*Telopelopia okoboji*	0 +
80204	*Brillia flavifrons group*	0 +
80420	*Cricotopus (C.) bicinctus*	0 +
81631	*Parakiefferiella n.sp 1*	0 +
82710	*Chironomus (C.) sp*	6
82730	*Chironomus (C.) decorus group*	0 +
82770	*Chironomus (C.) riparius group*	0 +
82820	*Cryptochironomus sp*	0 +
82880	*Cryptotendipes sp*	0 +
83000	*Dicrotendipes sp*	6
83040	*Dicrotendipes neomodestus*	23 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
83840	*Microtendipes pedellus group*	6
84210	*Paratendipes albimanus or P. duplicatus*	29
84300	*Phaenopsectra obediens group*	23 +
84302	*Phaenopsectra punctipes*	12
84460	*Polypedilum (P.) fallax group*	158
84470	*Polypedilum (P.) illinoense*	0 +
84475	*Polypedilum (P.) ophioides*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	18 +
84750	*Stictochironomus sp*	0 +
84790	*Tribelos fuscicorne*	12 +
85500	*Paratanytarsus sp*	129 +
85625	*Rheotanytarsus exiguus group*	12
85800	*Tanytarsus sp*	18 +
85814	*Tanytarsus glabrescens group*	18
85840	*Tanytarsus guerlus group*	0 +
87501	*Empididae*	0 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa: 27 Total Taxa: 74

No. Qualitative Taxa: 63 ICI: 24

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-300 River: Caesar Creek RM: .10

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
13400	*Stenacron sp*	0 +
13561	*Stenonema pulchellum*	0 +
17200	*Caenis sp*	0 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	0 +
23804	*Basiaeschna janata*	0 +
23909	*Boyeria vinosa*	0 +
24700	*Agnetina capitata complex*	0 +
27600	*Sialis sp*	0 +
28410	*Corydalus cornutus*	0 +
32200	*Cheumatopsyche sp*	0 +
32430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
32530	*Hydropsyche (H.) depravata group*	0 +
37900	*Pycnopsyche sp*	0 +
40900	*Peltodytes sp*	0 +
48075	*Psephenus herricki*	0 +
48708	*Dubiraphia vittata group*	0 +
48901	*Macronychus glabratus*	0 +
49400	*Stenelmis sp*	0 +
53140	*Labrundinia pilosella*	0 +
53650	*Procladius sp*	0 +
70360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	0 +
70231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	0 +
70220	*Tvetenia discoloripes group*	0 +
70820	*Cryptochironomus sp*	0 +
70450	*Polypedilum (P.) convictum*	0 +
70460	*Polypedilum (P.) fallax group*	0 +
70540	*Polypedilum (Tripodura) scalaenum group*	0 +
70750	*Stictochironomus sp*	0 +
74900	*Elimia sp*	0 +
79601	*Corbicula fluminea*	0 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 0 Total Taxa: 36

No. Qualitative Taxa: 36 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-022 River: Dry Run RM: 1.80

Taxa Code	Taxa	Quan/Qual
03600	*Oligochaeta*	62 +
05900	*Lirceus sp*	19 +
07800	*Cambarus sp*	0 +
08601	*Hydracarina*	4 +
13521	*Stenonema femoratum*	1 +
34130	*Acroneuria evoluta*	0 +
45300	*Sigara sp*	0 +
45900	*Notonecta sp*	0 +
47600	*Sialis sp*	4 +
52200	*Cheumatopsyche sp*	0 +
58505	*Helicopsyche borealis*	0 +
60900	*Peltodytes sp*	0 +
67700	*Paracymus sp*	0 +
68075	*Psephenus herricki*	0 +
68700	*Dubiraphia sp*	4
69400	*Stenelmis sp*	14
72340	*Dixella sp*	0 +
72700	*Anopheles sp*	0 +
72900	*Culex sp*	0 +
78650	*Procladius sp*	0 +
82710	*Chironomus (C.) sp*	289 +
82780	*Chironomus (C.) staegeri group*	10 +
83003	*Dicrotendipes fumidus*	558 +
83840	*Microtendipes pedellus group*	21 +
84210	*Paratendipes albimanus or P. duplicatus*	10 +
84750	*Stictochironomus sp*	0 +
85814	*Tanytarsus glabrescens group*	31
94400	*Fossaria sp*	2 +
95100	*Physella sp*	27 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 15 Total Taxa: 29

No. Qualitative Taxa: 26 ICI: **8**

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-021 River: Turtle Creek RM: 6.30

Taxa Code	Taxa	Quan/Qual
0401	*Spongillidae*	0 +
1320	*Hydra sp*	1
1801	*Turbellaria*	2 +
3600	*Oligochaeta*	3 +
4901	*Erpobdellidae*	0 +
5900	*Lirceus sp*	1 +
6700	*Crangonyx sp*	0 +
8250	*Orconectes (Procericambarus) rusticus*	0 +
8601	*Hydracarina*	2
1001	*Baetidae*	1
3400	*Stenacron sp*	8 +
3521	*Stenonema femoratum*	52 +
9000	*Paraleptophlebia sp*	1
7200	*Caenis sp*	13 +
7200	*Calopteryx sp*	0 +
7001	*Coenagrionidae*	0 +
7300	*Argia sp*	1 +
7205	*Nepa apiculata*	0 +
7600	*Sialis sp*	0 +
7200	*Climacia sp*	0 +
7200	*Cheumatopsyche sp*	0 +
7900	*Pycnopsyche sp*	1 +
7900	*Peltodytes sp*	0 +
7800	*Berosus sp*	0 +
7800	*Tropisternus sp*	0 +
7075	*Psephenus herricki*	0 +
7708	*Dubiraphia vittata group*	0 +
7400	*Stenelmis sp*	0 +
7700	*Anopheles sp*	0 +
7720	*Ablabesmyia mallochi*	10
7600	*Conchapelopia sp*	5 +
7750	*Hayesomyia senata or Thienemannimyia norena*	2
7800	*Helopelopia sp*	10 +
7850	*Meropelopia sp*	2
7801	*Natarsia species A (sensu Roback, 1978)*	0 +
7850	*Nilotanypus fimbriatus*	9
7850	*Procladius sp*	0 +
8000	*Zavrelimyia sp*	3
8170	*Corynoneura lobata*	43 +
8170	*Nanocladius (N.) spiniplenus*	2
8220	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	10
83300	*Glyptotendipes (Phytotendipes) sp*	5
83600	*Kiefferulus dux*	2
84210	*Paratendipes albimanus or P. duplicatus*	2 +
84450	*Polypedilum (P.) convictum*	5 +
84460	*Polypedilum (P.) fallax group*	56
84470	*Polypedilum (P.) illinoense*	29 +
84540	*Polypedilum (Tripodura) scalaenum group*	9 +
84750	*Stictochironomus sp*	0 +
85800	*Tanytarsus sp*	3
85814	*Tanytarsus glabrescens group*	13
87501	*Empididae*	1
95100	*Physella sp*	5 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 33 Total Taxa: 55

No. Qualitative Taxa: 38 ICI: 26

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-021 River: Turtle Creek RM: 4.30

Taxa Code	Taxa	Quan/Qual
00401	*Spongillidae*	0 +
01801	*Turbellaria*	3 +
03360	*Plumatella sp*	1 +
03600	*Oligochaeta*	8 +
05900	*Lirceus sp*	0 +
06201	*Hyalella azteca*	0 +
08250	*Orconectes (Procericambarus) rusticus*	1 +
11001	*Baetidae*	6
13400	*Stenacron sp*	14 +
13521	*Stenonema femoratum*	58 +
15000	*Paraleptophlebia sp*	2
17200	*Caenis sp*	352 +
21200	*Calopteryx sp*	0 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	12 +
24700	*Dromogomphus sp*	0 +
45300	*Sigara sp*	0 +
45400	*Trichocorixa sp*	0 +
47600	*Sialis sp*	1 +
52200	*Cheumatopsyche sp*	6 +
57900	*Pycnopsyche sp*	0 +
58505	*Helicopsyche borealis*	0 +
60300	*Dineutus sp*	0 +
60400	*Gyrinus sp*	1
60900	*Peltodytes sp*	0 +
63300	*Hydroporus sp*	0 +
65800	*Berosus sp*	1 +
66500	*Enochrus sp*	0 +
67700	*Paracymus sp*	0 +
67800	*Tropisternus sp*	0 +
68025	*Ectopria nervosa*	0 +
68075	*Psephenus herricki*	0 +
68708	*Dubiraphia vittata group*	0 +
69400	*Stenelmis sp*	7 +
74501	*Ceratopogonidae*	2
77120	*Ablabesmyia mallochi*	49 +
77500	*Conchapelopia sp*	22
77750	*Hayesomyia senata or Thienemannimyia norena*	5 +
77800	*Helopelopia sp*	33 +
78140	*Labrundinia pilosella*	2
78401	*Natarsia species A (sensu Roback, 1978)*	0 +
80370	*Corynoneura lobata*	78
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	11
81250	*Nanocladius (N.) minimus*	5
81270	*Nanocladius (N.) spiniplenus*	5
82730	*Chironomus (C.) decorus group*	0 +
82770	*Chironomus (C.) riparius group*	0 +
83040	*Dicrotendipes neomodestus*	38
83300	*Glyptotendipes (Phytotendipes) sp*	180 +
84210	*Paratendipes albimanus or P. duplicatus*	55 +
84450	*Polypedilum (P.) convictum*	5 +
84460	*Polypedilum (P.) fallax group*	71
84470	*Polypedilum (P.) illinoense*	0 +
84520	*Polypedilum (Tripodura) halterale group*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	11 +
84750	*Stictochironomus sp*	0 +
84800	*Tribelos jucundum*	0 +
84888	*Xenochironomus xenolabis*	0 +
85230	*Cladotanytarsus mancus group*	5
85625	*Rheotanytarsus exiguus group*	5
85800	*Tanytarsus sp*	5
85802	*Tanytarsus curticornis group*	11
85814	*Tanytarsus glabrescens group*	71
85840	*Tanytarsus guerlus group*	5
87501	*Empididae*	2
89001	*Sciomyzidae*	0 +
94400	*Fossaria sp*	0 +
95100	*Physella sp*	4 +
96900	*Ferrissia sp*	3
98600	*Sphaerium sp*	1 +

No. Quantitative Taxa:	41	Total Taxa:	70
No. Qualitative Taxa:	50	ICI:	36

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date:08/31/93 River Code: 11-021 River: Turtle Creek RM: .60

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	20
01801	*Turbellaria*	2 +
03600	*Oligochaeta*	92 +
04686	*Placobdella papillifera*	0 +
04964	*Mooreobdella microstoma*	0 +
05800	*Caecidotea sp*	0 +
05900	*Lirceus sp*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
08601	*Hydracarina*	3
11400	*Baetidae (formerly in Cloeon)*	7
13400	*Stenacron sp*	52 +
13521	*Stenonema femoratum*	32 +
17200	*Caenis sp*	231 +
22001	*Coenagrionidae*	2 +
23300	*Argia sp*	11 +
27400	*Trichocorixa sp*	0 +
27600	*Sialis sp*	1
31410	*Corydalus cornutus*	0 +
31315	*Chimarra obscura*	0 +
32200	*Cheumatopsyche sp*	0 +
32900	*Peltodytes sp*	0 +
32910	*Peltodytes edentulus*	0 +
33800	*Berosus sp*	0 +
34300	*Tropisternus sp*	0 +
34075	*Psephenus herricki*	0 +
35708	*Dubiraphia vittata group*	1 +
36400	*Stenelmis sp*	0 +
39120	*Ablabesmyia mallochi*	75 +
39300	*Conchapelopia sp*	0 +
39500	*Helopelopia sp*	15 +
39740	*Labrundinia pilosella*	8
39770	*Corynoneura lobata*	16
40110	*Cricotopus (C.) sp*	22
40230	*Chironomus (C.) decorus group*	52 +
40320	*Cryptochironomus sp*	0 +
40500	*Dicrotendipes sp*	8
40540	*Dicrotendipes neomodestus*	82
40658	*Endochironomus nigricans*	22
40900	*Glyptotendipes (Phytotendipes) sp*	217
41210	*Paratendipes albimanus or P. duplicatus*	22 +
41450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	15
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
84750	*Stictochironomus sp*	0 +
85814	*Tanytarsus glabrescens group*	22
85840	*Tanytarsus guerlus group*	8
93900	*Elimia sp*	6 +
95100	*Physella sp*	10 +
97601	*Corbicula fluminea*	1 +
98200	*Pisidium sp*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa: 29 Total Taxa: 53

No. Qualitative Taxa: 39 ICI: 22

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-021 River: Turtle Creek RM: .50

Taxa Code	Taxa	Quan/Qual
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	28 +
05800	*Caecidotea sp*	0 +
05900	*Lirceus sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	2 +
08601	*Hydracarina*	8
13400	*Stenacron sp*	0 +
13521	*Stenonema femoratum*	2 +
13560	*Stenonema pulchellum group*	13
16700	*Tricorythodes sp*	4
17200	*Caenis sp*	25 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	5 +
47600	*Sialis sp*	0 +
48410	*Corydalus cornutus*	0 +
50315	*Chimarra obscura*	5 +
52200	*Cheumatopsyche sp*	9 +
66500	*Enochrus sp*	0 +
67000	*Helophorus sp*	0 +
68075	*Psephenus herricki*	0 +
68708	*Dubiraphia vittata group*	0 +
69400	*Stenelmis sp*	2 +
71300	*Limonia sp*	0 +
71900	*Tipula sp*	0 +
74501	*Ceratopogonidae*	8
77120	*Ablabesmyia mallochi*	18 +
77500	*Conchapelopia sp*	87 +
77750	*Hayesomyia senata or Thienemannimyia norena*	12 +
77800	*Helopelopia sp*	81 +
78401	*Natarsia species A (sensu Roback, 1978)*	0 +
78450	*Nilotanypus fimbriatus*	12
78650	*Procladius sp*	6
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	4
80370	*Corynoneura lobata*	4
80410	*Cricotopus (C.) sp*	18
81240	*Nanocladius (N.) distinctus*	12
81250	*Nanocladius (N.) minimus*	12
81270	*Nanocladius (N.) spiniplenus*	6 +
81632	*Parakiefferiella n.sp 2*	12
82730	*Chironomus (C.) decorus group*	87 +
82820	*Cryptochironomus sp*	12 +
83040	*Dicrotendipes neomodestus*	31 +
83300	*Glyptotendipes (Phytotendipes) sp*	6
84210	*Paratendipes albimanus or P. duplicatus*	6 +
84450	*Polypedilum (P.) convictum*	55 +
84460	*Polypedilum (P.) fallax group*	43 +
84470	*Polypedilum (P.) illinoense*	31 +
84520	*Polypedilum (Tripodura) halterale group*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	37 +
84750	*Stictochironomus sp*	0 +
84960	*Pseudochironomus sp*	6
85625	*Rheotanytarsus exiguus group*	6
85814	*Tanytarsus glabrescens group*	12
87400	*Stratiomys sp*	0 +
87501	*Empididae*	16
93900	*Elimia sp*	0 +
95100	*Physella sp*	0 +
98200	*Pisidium sp*	1
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa:	39	Total Taxa:	59
No. Qualitative Taxa:	41	ICI:	26

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-021 River: Turtle Creek RM: .10

Taxa Code	Taxa	Quan/Qual
1320	*Hydra sp*	129
1801	*Turbellaria*	99 +
3360	*Plumatella sp*	0 +
3600	*Oligochaeta*	3925 +
4964	*Mooreobdella microstoma*	0 +
5900	*Lirceus sp*	1
6700	*Crangonyx sp*	1 +
8250	*Orconectes (Procericambarus) rusticus*	0 +
8601	*Hydracarina*	105
1130	*Baetis intercalaris*	0 +
3400	*Stenacron sp*	0 +
3521	*Stenonema femoratum*	0 +
7200	*Caenis sp*	27 +
7001	*Coenagrionidae*	0 +
300	*Argia sp*	1 +
600	*Sialis sp*	0 +
315	*Chimarra obscura*	0 +
200	*Cheumatopsyche sp*	0 +
505	*Helicopsyche borealis*	1 +
900	*Peltodytes sp*	18
001	*Dytiscidae*	2
800	*Berosus sp*	39 +
500	*Enochrus sp*	0 +
000	*Helophorus sp*	0 +
600	*Laccobius sp*	1
700	*Paracymus sp*	0 +
800	*Tropisternus sp*	0 +
075	*Psephenus herricki*	0 +
100	*Stenelmis sp*	7 +
900	*Tipula sp*	1 +
101	*Psychodidae*	8
700	*Anopheles sp*	0 +
501	*Ceratopogonidae*	12 +
120	*Ablabesmyia mallochi*	9
155	*Clinotanypus pinguis*	0 +
100	*Conchapelopia sp*	0 +
140	*Hayesomyia senata*	0 +
100	*Helopelopia sp*	0 +
100	*Larsia sp*	37
130	*Chironomus (C.) decorus group*	672 +
120	*Cryptochironomus sp*	0 +
103	*Dicrotendipes fumidus*	6644
83040	*Dicrotendipes neomodestus*	149 +
83300	*Glyptotendipes (Phytotendipes) sp*	149
84210	*Paratendipes albimanus or P. duplicatus*	75
84450	*Polypedilum (P.) convictum*	75 +
84470	*Polypedilum (P.) illinoense*	0 +
84750	*Stictochironomus sp*	299 +
85800	*Tanytarsus sp*	75 +
93900	*Elimia sp*	5 +
94400	*Fossaria sp*	6 +
95100	*Physella sp*	335 +
96900	*Ferrissia sp*	8
97601	*Corbicula fluminea*	0 +
98200	*Pisidium sp*	1
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa:	32	Total Taxa:	56
No. Qualitative Taxa:	42	ICI:	16

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-020 River: Muddy Creek RM: 2.50

Taxa Code	Taxa	Quan/Qual
00556	*Ephydatia fluviatilis*	0 +
01320	*Hydra sp*	122
01801	*Turbellaria*	200 +
03360	*Plumatella sp*	5
03600	*Oligochaeta*	336 +
04664	*Helobdella stagnalis*	0 +
04666	*Helobdella triserialis*	0 +
04901	*Erpobdellidae*	3
04935	*Erpobdella punctata punctata*	0 +
04964	*Mooreobdella microstoma*	0 +
06700	*Crangonyx sp*	2 +
08601	*Hydracarina*	8
11120	*Baetis flavistriga*	1
11200	*Callibaetis sp*	0 +
16700	*Tricorythodes sp*	1
17200	*Caenis sp*	2 +
21200	*Calopteryx sp*	0 +
22001	*Coenagrionidae*	1 +
22300	*Argia sp*	96 +
28500	*Libellula sp*	0 +
28705	*Pachydiplax longipennis*	0 +
28908	*Perithemis tenera*	0 +
42700	*Belostoma sp*	0 +
43300	*Ranatra sp*	0 +
45300	*Sigara sp*	0 +
52200	*Cheumatopsyche sp*	734 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	48
52530	*Hydropsyche (H.) depravata group*	45 +
53800	*Hydroptila sp*	32
60900	*Peltodytes sp*	0 +
60910	*Peltodytes edentulus*	0 +
65800	*Berosus sp*	18 +
67300	*Hydrochus sp*	0 +
68075	*Psephenus herricki*	0 +
69400	*Stenelmis sp*	1 +
72700	*Anopheles sp*	0 +
77500	*Conchapelopia sp*	56
79020	*Tanypus neopunctipennis*	0 +
80370	*Corynoneura lobata*	72
80410	*Cricotopus (C.) sp*	84
80420	*Cricotopus (C.) bicinctus*	56
80430	*Cricotopus (C.) tremulus group*	558 +
81201	*Nanocladius (N.) sp*	28
81825	*Rheocricotopus (Psilocricotopus) robacki*	0 +
82101	*Thienemanniella n.sp 1*	71
82141	*Thienemanniella xena*	177
82710	*Chironomus (C.) sp*	0 +
82820	*Cryptochironomus sp*	28
83040	*Dicrotendipes neomodestus*	948 +
83300	*Glyptotendipes (Phytotendipes) sp*	28
84450	*Polypedilum (P.) convictum*	56 +
84888	*Xenochironomus xenolabis*	0 +
85500	*Paratanytarsus sp*	56
85625	*Rheotanytarsus exiguus group*	28
85814	*Tanytarsus glabrescens group*	558
85840	*Tanytarsus guerlus group*	28
87501	*Empididae*	12
95100	*Physella sp*	17 +

No. Quantitative Taxa:	36	Total Taxa:	58
No. Qualitative Taxa:	36	ICI:	34

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-007 River: Sycamore Creek RM: .50

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03600	*Oligochaeta*	0 +
05900	*Lirceus sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11130	*Baetis intercalaris*	0 +
13521	*Stenonema femoratum*	0 +
17200	*Caenis sp*	0 +
22300	*Argia sp*	0 +
23909	*Boyeria vinosa*	0 +
27600	*Sialis sp*	0 +
30315	*Chimarra obscura*	0 +
32200	*Cheumatopsyche sp*	0 +
32430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
32530	*Hydropsyche (H.) depravata group*	0 +
40900	*Peltodytes sp*	0 +
44400	*Stenelmis sp*	0 +
46900	*Tipula sp*	0 +
47100	*Simulium sp*	0 +
47500	*Conchapelopia sp*	0 +
48430	*Cricotopus (C.) tremulus group*	0 +
48040	*Dicrotendipes neomodestus*	0 +
48315	*Phaenopsectra flavipes*	0 +
48450	*Polypedilum (P.) convictum*	0 +
48470	*Polypedilum (P.) illinoense*	0 +
48540	*Polypedilum (Tripodura) scalaenum group*	0 +
48800	*Tanytarsus sp*	0 +
48814	*Tanytarsus glabrescens group*	0 +
48840	*Tanytarsus guerlus group*	0 +
50501	*Empididae*	0 +
51100	*Physella sp*	0 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 0 Total Taxa: 30

No. Qualitative Taxa: 30 ICI:

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-007 River: Sycamore Creek RM: .20

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	4
01801	*Turbellaria*	13
03121	*Paludicella articulata*	1
03600	*Oligochaeta*	96 +
05900	*Lirceus sp*	1 +
11120	*Baetis flavistriga*	47 +
11130	*Baetis intercalaris*	51
13521	*Stenonema femoratum*	12 +
17200	*Caenis sp*	3 +
22300	*Argia sp*	0 +
48410	*Corydalus cornutus*	1
52200	*Cheumatopsyche sp*	44
52530	*Hydropsyche (H.) depravata group*	4
59970	*Petrophila sp*	4
68025	*Ectopria nervosa*	0 +
69400	*Stenelmis sp*	5 +
71900	*Tipula sp*	3 +
74100	*Simulium sp*	15 +
77120	*Ablabesmyia mallochi*	13
77500	*Conchapelopia sp*	40 +
77800	*Helopelopia sp*	7 +
78601	*Pentaneura Type 1*	13
80370	*Corynoneura lobata*	18
80410	*Cricotopus (C.) sp*	27
80420	*Cricotopus (C.) bicinctus*	7 +
80430	*Cricotopus (C.) tremulus group*	113
80510	*Cricotopus (Isocladius) sylvestris group*	7 +
81825	*Rheocricotopus (Psilocricotopus) robacki*	7 +
82101	*Thienemanniella n.sp 1*	14
82130	*Thienemanniella similis*	2
82141	*Thienemanniella xena*	8
82710	*Chironomus (C.) sp*	0 +
82770	*Chironomus (C.) riparius group*	27 +
82820	*Cryptochironomus sp*	7 +
83040	*Dicrotendipes neomodestus*	53
84210	*Paratendipes albimanus or P. duplicatus*	7 +
84450	*Polypedilum (P.) convictum*	20 +
84460	*Polypedilum (P.) fallax group*	0 +
84470	*Polypedilum (P.) illinoense*	47 +
84540	*Polypedilum (Tripodura) scalaenum group*	0 +
85500	*Paratanytarsus sp*	13
85814	*Tanytarsus glabrescens group*	246
87501	*Empididae*	77 +

No. Quantitative Taxa: 38 Total Taxa: 43

No. Qualitative Taxa: 24 ICI: 32

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-007 River: Sycamore Creek RM: .10

Taxa Code	Taxa	Quan/Qual
1801	*Turbellaria*	165 +
3600	*Oligochaeta*	156 +
4664	*Helobdella stagnalis*	0 +
5900	*Lirceus sp*	1 +
1120	*Baetis flavistriga*	0 +
1130	*Baetis intercalaris*	0 +
3400	*Stenacron sp*	1 +
3521	*Stenonema femoratum*	17 +
7200	*Caenis sp*	2
1200	*Calopteryx sp*	18 +
2001	*Coenagrionidae*	8 +
2300	*Argia sp*	90 +
0909	*Boyeria vinosa*	0 +
0410	*Corydalus cornutus*	0 +
1200	*Cheumatopsyche sp*	1 +
2315	*Diplectrona modesta*	0 +
3800	*Hydroptila sp*	0 +
3900	*Peltodytes sp*	0 +
4800	*Berosus sp*	9 +
6075	*Psephenus herricki*	0 +
6400	*Stenelmis sp*	0 +
7800	*Limonia sp*	0 +
7900	*Tipula sp*	0 +
8100	*Simulium sp*	0 +
8501	*Ceratopogonidae*	4
8520	*Ablabesmyia mallochi*	28
8600	*Conchapelopia sp*	14 +
8650	*Meropelopia sp*	0 +
8750	*Procladius sp*	14
8770	*Corynoneura lobata*	27
8820	*Cricotopus (C.) bicinctus*	14
8830	*Cricotopus (C.) tremulus group*	0 +
8910	*Cricotopus (Isocladius) sylvestris group*	57
8925	*Rheocricotopus (Psilocricotopus) robacki*	0 +
8941	*Thienemanniella xena*	0 +
9030	*Chironomus (C.) decorus group*	57 +
9070	*Chironomus (C.) riparius group*	28
9120	*Cryptochironomus sp*	28 +
9203	*Dicrotendipes fumidus*	0 +
9240	*Dicrotendipes neomodestus*	808
9300	*Glyptotendipes (Phytotendipes) sp*	43 +
9310	*Paratendipes albimanus or P. duplicatus*	28
84450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	14
84470	*Polypedilum (P.) illinoense*	85 +
84540	*Polypedilum (Tripodura) scalaenum group*	14
85800	*Tanytarsus sp*	28
85814	*Tanytarsus glabrescens group*	203 +
87501	*Empididae*	8
95100	*Physella sp*	61 +

No. Quantitative Taxa: 31 Total Taxa: 50

No. Qualitative Taxa: 36 ICI: 20

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-107 River: Stonelick Creek RM: 17.70

Taxa Code	Taxa	Quan/Qual
03600	*Oligochaeta*	12 +
05900	*Lirceus sp*	0 +
06700	*Crangonyx sp*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
08601	*Hydracarina*	2
11400	*Baetidae (formerly in Cloeon)*	1
13400	*Stenacron sp*	26 +
13521	*Stenonema femoratum*	27 +
15000	*Paraleptophlebia sp*	17
17200	*Caenis sp*	40 +
47600	*Sialis sp*	1 +
52200	*Cheumatopsyche sp*	0 +
52530	*Hydropsyche (H.) depravata group*	0 +
60400	*Gyrinus sp*	0 +
60900	*Peltodytes sp*	0 +
63300	*Hydroporus sp*	0 +
68075	*Psephenus herricki*	2 +
68130	*Helichus sp*	0 +
68708	*Dubiraphia vittata group*	4 +
69400	*Stenelmis sp*	0 +
78401	*Natarsia species A (sensu Roback, 1978)*	0 +
78450	*Nilotanypus fimbriatus*	3
82730	*Chironomus (C.) decorus group*	3
82770	*Chironomus (C.) riparius group*	8
83040	*Dicrotendipes neomodestus*	22
83050	*Dicrotendipes lucifer*	8
83051	*Dicrotendipes simpsoni*	44
83300	*Glyptotendipes (Phytotendipes) sp*	42
83600	*Kiefferulus dux*	8
83840	*Microtendipes pedellus group*	0 +
84210	*Paratendipes albimanus or P. duplicatus*	36 +
84460	*Polypedilum (P.) fallax group*	17
84470	*Polypedilum (P.) illinoense*	0 +
84750	*Stictochironomus sp*	0 +
84800	*Tribelos jucundum*	8
85201	*Cladotanytarsus species group A*	3
85500	*Paratanytarsus sp*	11
85800	*Tanytarsus sp*	11 +
85802	*Tanytarsus curticornis group*	3
86100	*Chrysops sp*	0 +
93900	*Elimia sp*	2 +
95100	*Physella sp*	1
96120	*Menetus (Micromenetus) dilatatus*	1
96900	*Ferrissia sp*	19
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa:	29	Total Taxa:	45
No. Qualitative Taxa:	26	ICI:	24

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-107 River: Stonelick Creek RM: 2.90

Taxa Code	Taxa	Quan/Qual
1320	*Hydra sp*	43
3360	*Plumatella sp*	4 +
3451	*Urnatella gracilis*	1
3600	*Oligochaeta*	144 +
1120	*Baetis flavistriga*	0 +
1200	*Callibaetis sp*	0 +
1300	*Baetidae (formerly in Centroptilum)*	0 +
1400	*Baetidae (formerly in Cloeon)*	4
3000	*Leucrocuta sp*	0 +
3400	*Stenacron sp*	138 +
3521	*Stenonema femoratum*	134 +
5000	*Paraleptophlebia sp*	1
5700	*Tricorythodes sp*	2
7200	*Caenis sp*	112 +
7001	*Coenagrionidae*	0 +
300	*Argia sp*	9
710	*Dromogomphus spinosis*	0 +
700	*Agnetina capitata complex*	0 +
400	*Trichocorixa sp*	0 +
600	*Sialis sp*	0 +
410	*Corydalus cornutus*	0 +
315	*Chimarra obscura*	0 +
400	*Nyctiophylax sp*	17
200	*Cheumatopsyche sp*	0 +
430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
800	*Hydroptila sp*	3
110	*Ceraclea ancylus*	0 +
970	*Petrophila sp*	0 +
975	*Psephenus herricki*	1 +
708	*Dubiraphia vittata group*	0 +
00	*Stenelmis sp*	0 +
20	*Ablabesmyia mallochi*	30 +
50	*Hayesomyia senata or Thienemannimyia norena*	135
00	*Helopelopia sp*	0 +
50	*Nilotanypus fimbriatus*	15
50	*Procladius sp*	0 +
51	*Corynoneura n.sp 1*	0 +
70	*Corynoneura lobata*	56 +
10	*Cricotopus (C.) sp*	45
01	*Nanocladius (N.) sp*	0 +
41	*Thienemanniella xena*	0 +
82730	*Chironomus (C.) decorus group*	15
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	946
83310	*Glyptotendipes (G.) amplus*	30 +
83840	*Microtendipes pedellus group*	15
84210	*Paratendipes albimanus or P. duplicatus*	0 +
84300	*Phaenopsectra obediens group*	30
84450	*Polypedilum (P.) convictum*	0 +
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	15 +
85800	*Tanytarsus sp*	15
85840	*Tanytarsus guerlus group*	45
86200	*Tabanus sp*	0 +
87501	*Empididae*	1
96900	*Ferrissia sp*	1 +

No. Quantitative Taxa:	29	Total Taxa:	56
No. Qualitative Taxa:	38	ICI:	32

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-107 River: Stonelick Creek RM: 1.00

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	8 +
03360	*Plumatella sp*	1 +
03600	*Oligochaeta*	4 +
06201	*Hyalella azteca*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
11020	*Acerpenna pygmaeus*	0 +
11130	*Baetis intercalaris*	0 +
11400	*Baetidae (formerly in Cloeon)*	11
12200	*Isonychia sp*	0 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	171 +
13510	*Stenonema exiguum*	3 +
13521	*Stenonema femoratum*	94 +
15000	*Paraleptophlebia sp*	1
17200	*Caenis sp*	33 +
18100	*Anthopotamus sp*	1 +
18700	*Hexagenia sp*	0 +
22001	*Coenagrionidae*	1 +
22300	*Argia sp*	2 +
34700	*Agnetina capitata complex*	0 +
48410	*Corydalus cornutus*	0 +
50315	*Chimarra obscura*	0 +
51206	*Cyrnellus fraternus*	0 +
52200	*Cheumatopsyche sp*	0 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	0 +
68505	*Helicopsyche borealis*	1 +
69110	*Ceraclea ancylus*	0 +
77800	*Tropisternus sp*	0 +
78075	*Psephenus herricki*	0 +
78708	*Dubiraphia vittata group*	0 +
79400	*Stenelmis sp*	0 +
81100	*Hexatoma sp*	0 +
87120	*Ablabesmyia mallochi*	46
87500	*Conchapelopia sp*	0 +
87750	*Hayesomyia senata or Thienemannimyia norena*	5
87800	*Helopelopia sp*	5 +
88140	*Labrundinia pilosella*	5
90351	*Corynoneura n.sp 1*	0 +
90360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	0 +
90370	*Corynoneura lobata*	34
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	5
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	41 +
83300	*Glyptotendipes (Phytotendipes) sp*	265
83840	*Microtendipes pedellus group*	26
84210	*Paratendipes albimanus or P. duplicatus*	5
84450	*Polypedilum (P.) convictum*	0 +
84460	*Polypedilum (P.) fallax group*	5
84470	*Polypedilum (P.) illinoense*	0 +
84750	*Stictochironomus sp*	0 +
85814	*Tanytarsus glabrescens group*	10
85840	*Tanytarsus guerlus group*	26
87501	*Empididae*	0 +
93900	*Elimia sp*	0 +
94400	*Fossaria sp*	0 +
95100	*Physella sp*	0 +
96900	*Ferrissia sp*	12
97601	*Corbicula fluminea*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa:	27	Total Taxa:	60
No. Qualitative Taxa:	46	ICI:	36

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-100 River: East Fork Little Miami River RM: 15.50

Taxa Code	Taxa	Quan/Qual
1320	*Hydra sp*	16
3600	*Oligochaeta*	8 +
5900	*Lirceus sp*	0 +
6201	*Hyalella azteca*	0 +
8250	*Orconectes (Procericambarus) rusticus*	0 +
8601	*Hydracarina*	0 +
1130	*Baetis intercalaris*	1015 +
1300	*Baetidae (formerly in Centroptilum)*	1 +
1400	*Baetidae (formerly in Cloeon)*	0 +
1700	*Baetidae (formerly in Pseudocloeon)*	271 +
9400	*Stenacron sp*	0 +
8521	*Stenonema femoratum*	0 +
8561	*Stenonema pulchellum*	467 +
5700	*Tricorythodes sp*	35 +
7200	*Caenis sp*	8 +
2100	*Anthopotamus sp*	0 +
4600	*Ephemera sp*	0 +
6001	*Coenagrionidae*	0 +
3300	*Argia sp*	22 +
0804	*Basiaeschna janata*	0 +
5700	*Agnetina capitata complex*	0 +
2600	*Sialis sp*	0 +
2410	*Corydalus cornutus*	37 +
3906	*Psychomyia flavida*	103 +
4206	*Cyrnellus fraternus*	30
4300	*Neureclipsis sp*	29
4200	*Cheumatopsyche sp*	417 +
4130	*Hydropsyche (Ceratopsyche) morosa group*	149 +
4640	*Hydropsyche (H.) dicantha*	60 +
4670	*Hydropsyche (H.) simulans*	28
4800	*Protoptila sp*	0 +
4800	*Hydroptila sp*	71 +
5000	*Leucotrichia pictipes*	0 +
5105	*Helicopsyche borealis*	0 +
5210	*Ceraclea ancylus*	0 +
5300	*Oecetis sp*	10
5370	*Petrophila sp*	0 +
6000	*Peltodytes sp*	0 +
6200	*Berosus sp*	0 +
6300	*Tropisternus sp*	0 +
6775	*Psephenus herricki*	0 +
7008	*Dubiraphia vittata group*	0 +

Taxa Code	Taxa	Quan/Qual
68901	*Macronychus glabratus*	2
69400	*Stenelmis sp*	0 +
71100	*Hexatoma sp*	0 +
74100	*Simulium sp*	8 +
77115	*Ablabesmyia janta*	0 +
77800	*Helopelopia sp*	25 +
78650	*Procladius sp*	0 +
78750	*Rheopelopia paramaculipennis*	12 +
80310	*Cardiocladius obscurus*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	8
80370	*Corynoneura lobata*	16
80410	*Cricotopus (C.) sp*	12
80420	*Cricotopus (C.) bicinctus*	0 +
80430	*Cricotopus (C.) tremulus group*	12 +
82101	*Thienemanniella n.sp 1*	112 +
82121	*Thienemanniella n.sp 3*	25 +
82130	*Thienemanniella similis*	40 +
82710	*Chironomus (C.) sp*	0 +
82820	*Cryptochironomus sp*	0 +
83002	*Dicrotendipes modestus*	0 +
83040	*Dicrotendipes neomodestus*	25 +
83158	*Endochironomus nigricans*	0 +
83300	*Glyptotendipes (Phytotendipes) sp*	25
83840	*Microtendipes pedellus group*	0 +
84210	*Paratendipes albimanus or P. duplicatus*	0 +
84450	*Polypedilum (P.) convictum*	298 +
84460	*Polypedilum (P.) fallax group*	12
84470	*Polypedilum (P.) illinoense*	0 +
84520	*Polypedilum (Tripodura) halterale group*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	25 +
84700	*Stenochironomus sp*	12
85265	*Cladotanytarsus vanderwulpi group Type 5*	0 +
85625	*Rheotanytarsus exiguus group*	769 +
85720	*Stempellinella n.sp nr. flavidula*	12
85800	*Tanytarsus sp*	0 +
85814	*Tanytarsus glabrescens group*	50 +
85840	*Tanytarsus guerlus group*	12 +
87501	*Empididae*	16
93900	*Elimia sp*	0 +
94400	*Fossaria sp*	0 +
95100	*Physella sp*	0 +

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 08/31/93 River Code: 11-100 River: East Fork Little Miami River RM: 15.50

Taxa Code	Taxa	Quan/Qual
96900	*Ferrissia sp*	55 +
97601	*Corbicula fluminea*	0 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa:	42	Total Taxa:	85
No. Qualitative Taxa:	71	ICI:	**54**

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-100 River: East Fork Little Miami River RM: 13.30

Taxa Code	Taxa	Quan/Qual
0830	*Trochospongilla horrida*	0 +
1320	*Hydra sp*	8
3121	*Paludicella articulata*	0 +
3360	*Plumatella sp*	1 +
3451	*Urnatella gracilis*	0 +
3600	*Oligochaeta*	8 +
6201	*Hyalella azteca*	0 +
3250	*Orconectes (Procericambarus) rusticus*	0 +
1130	*Baetis intercalaris*	383 +
300	*Baetidae (formerly in Centroptilum)*	0 +
700	*Baetidae (formerly in Pseudocloeon)*	41
400	*Stenacron sp*	0 +
521	*Stenonema femoratum*	1
561	*Stenonema pulchellum*	868 +
700	*Tricorythodes sp*	143 +
200	*Caenis sp*	0 +
100	*Anthopotamus sp*	0 +
300	*Hetaerina sp*	1
001	*Coenagrionidae*	0 +
300	*Argia sp*	39 +
804	*Basiaeschna janata*	0 +
909	*Boyeria vinosa*	0 +
900	*Gomphus sp*	0 +
700	*Agnetina capitata complex*	2 +
800	*Ranatra sp*	0 +
500	*Sialis sp*	0 +
10	*Corydalus cornutus*	2 +
15	*Chimarra obscura*	0 +
06	*Psychomyia flavida*	16 +
06	*Cyrnellus fraternus*	118
00	*Neureclipsis sp*	27 +
00	*Cheumatopsyche sp*	1562 +
30	*Hydropsyche (Ceratopsyche) morosa group*	330 +
40	*Hydropsyche (H.) dicantha*	13 +
70	*Hydropsyche (H.) simulans*	2
00	*Protoptila sp*	0 +
00	*Leucotrichia pictipes*	0 +
05	*Helicopsyche borealis*	0 +
10	*Ceraclea ancylus*	0 +
40	*Ceraclea maculata*	0 +
80	*Ceraclea transversa*	0 +
00	*Oecetis sp*	18
59970	*Petrophila sp*	0 +
68075	*Psephenus herricki*	0 +
68601	*Ancyronyx variegata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	0 +
69400	*Stenelmis sp*	0 +
71100	*Hexatoma sp*	0 +
74100	*Simulium sp*	3 +
77120	*Ablabesmyia mallochi*	0 +
77500	*Conchapelopia sp*	0 +
77750	*Hayesomyia senata or Thienemannimyia norena*	103
78650	*Procladius sp*	0 +
80310	*Cardiocladius obscurus*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	0 +
80370	*Corynoneura lobata*	16
81280	*Nanocladius (Plecopteracoluthus) n. sp*	0 +
82101	*Thienemanniella n.sp 1*	80
82121	*Thienemanniella n.sp 3*	154 +
82130	*Thienemanniella similis*	80 +
82220	*Tvetenia discoloripes group*	0 +
82820	*Cryptochironomus sp*	0 +
82880	*Cryptotendipes sp*	0 +
83158	*Endochironomus nigricans*	0 +
83300	*Glyptotendipes (Phytotendipes) sp*	0 +
83840	*Microtendipes pedellus group*	0 +
84450	*Polypedilum (P.) convictum*	564 +
84520	*Polypedilum (Tripodura) halterale group*	0 +
84700	*Stenochironomus sp*	257
85625	*Rheotanytarsus exiguus group*	3386 +
85800	*Tanytarsus sp*	0 +
87501	*Empididae*	19 +
93900	*Elimia sp*	0 +
95100	*Physella sp*	0 +
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa: 30 Total Taxa: 76

No. Qualitative Taxa: 65 ICI: 46

study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-100 River: East Fork Little Miami River RM: 12.70

Taxa Code	Taxa	Quan/Qual
01320	*Hydra sp*	8
01801	*Turbellaria*	16 +
03121	*Paludicella articulata*	1
03360	*Plumatella sp*	1
03451	*Urnatella gracilis*	16
03600	*Oligochaeta*	16 +
06201	*Hyalella azteca*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
08601	*Hydracarina*	8 +
11130	*Baetis intercalaris*	490 +
11300	*Baetidae (formerly in Centroptilum)*	0 +
11700	*Baetidae (formerly in Pseudocloeon)*	262 +
12200	*Isonychia sp*	1
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	19
13561	*Stenonema pulchellum*	1701 +
16700	*Tricorythodes sp*	251 +
17200	*Caenis sp*	0 +
18100	*Anthopotamus sp*	0 +
18600	*Ephemera sp*	0 +
21300	*Hetaerina sp*	3 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	79 +
23804	*Basiaeschna janata*	0 +
23909	*Boyeria vinosa*	0 +
24900	*Gomphus sp*	0 +
34130	*Acroneuria evoluta*	0 +
34300	*Neoperla clymene complex*	0 +
34700	*Agnetina capitata complex*	1 +
47600	*Sialis sp*	0 +
68410	*Corydalus cornutus*	28 +
60315	*Chimarra obscura*	11 +
60906	*Psychomyia flavida*	21 +
61206	*Cyrnellus fraternus*	145 +
61300	*Neureclipsis sp*	41
62200	*Cheumatopsyche sp*	1021 +
62430	*Hydropsyche (Ceratopsyche) morosa group*	648 +
62540	*Hydropsyche (H.) dicantha*	115 +
63400	*Protoptila sp*	0 +
63800	*Hydroptila sp*	18 +
64000	*Leucotrichia pictipes*	0 +
68505	*Helicopsyche borealis*	0 +
59110	*Ceraclea ancylus*	0 +
59500	*Oecetis sp*	50 +
59970	*Petrophila sp*	24 +
65800	*Berosus sp*	0 +
68075	*Psephenus herricki*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	19 +
69400	*Stenelmis sp*	3 +
71100	*Hexatoma sp*	0 +
74100	*Simulium sp*	21
77115	*Ablabesmyia janta*	0 +
77750	*Hayesomyia senata or Thienemannimyia norena*	0 +
78450	*Nilotanypus fimbriatus*	20 +
78750	*Rheopelopia paramaculipennis*	61
80310	*Cardiocladius obscurus*	41 +
80370	*Corynoneura lobata*	24
81229	*Nanocladius (N.) crassicornus*	41
81280	*Nanocladius (Plecopteracoluthus) n. sp*	20
82070	*Synorthocladius semivirens*	8
82101	*Thienemanniella n.sp 1*	173 +
82121	*Thienemanniella n.sp 3*	16
82130	*Thienemanniella similis*	29 +
82220	*Tvetenia discoloripes group*	102
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	61 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
84450	*Polypedilum (P.) convictum*	428 +
84540	*Polypedilum (Tripodura) scalaenum group*	20 +
84700	*Stenochironomus sp*	20
85625	*Rheotanytarsus exiguus group*	877 +
85720	*Stempellinella n.sp nr. flavidula*	20
85814	*Tanytarsus glabrescens group*	61
85840	*Tanytarsus guerlus group*	61 +
87501	*Empididae*	18
93900	*Elimia sp*	0 +
95100	*Physella sp*	0 +
96120	*Menetus (Micromenetus) dilatatus*	0 +
96900	*Ferrissia sp*	24
97601	*Corbicula fluminea*	0 +

No. Quantitative Taxa: 51 Total Taxa: 81

No. Qualitative Taxa: 61 ICI: 54

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-100 River: East Fork Little Miami River RM: 9.20

Taxa Code	Taxa	Quan/Qual
0401	*Spongillidae*	0 +
1200	*Cordylophora lacustris*	1
1320	*Hydra sp*	8
1801	*Turbellaria*	16
3121	*Paludicella articulata*	1 +
3360	*Plumatella sp*	5 +
3451	*Urnatella gracilis*	0 +
3600	*Oligochaeta*	0 +
4666	*Helobdella triserialis*	0 +
6201	*Hyalella azteca*	0 +
6700	*Crangonyx sp*	0 +
8250	*Orconectes (Procericambarus) rusticus*	0 +
1130	*Baetis intercalaris*	8 +
1700	*Baetidae (formerly in Pseudocloeon)*	0 +
2200	*Isonychia sp*	8 +
3000	*Leucrocuta sp*	1
3400	*Stenacron sp*	202 +
3521	*Stenonema femoratum*	0 +
3561	*Stenonema pulchellum*	1279 +
3570	*Stenonema terminatum*	0 +
3700	*Tricorythodes sp*	99
4200	*Caenis sp*	8 +
5100	*Anthopotamus sp*	0 +
5700	*Hexagenia sp*	0 +
6300	*Hetaerina sp*	1 +
7001	*Coenagrionidae*	0 +
7300	*Argia sp*	7 +
7304	*Basiaeschna janata*	0 +
7900	*Gomphus sp*	0 +
8700	*Macromia sp*	0 +
9100	*Agnetina capitata complex*	12 +
9700	*Belostoma sp*	0 +
0100	*Trichocorixa sp*	0 +
0200	*Sialis sp*	0 +
0210	*Corydalus cornutus*	5 +
0300	*Climacia sp*	0 +
0315	*Chimarra obscura*	1 +
1006	*Cyrnellus fraternus*	477 +
1100	*Neureclipsis sp*	19
1200	*Cheumatopsyche sp*	2026 +
1230	*Hydropsyche (Ceratopsyche) morosa group*	127 +
1240	*Hydropsyche (H.) dicantha*	40 +
53400	*Protoptila sp*	0 +
53501	*Hydroptilidae*	0 +
59140	*Ceraclea maculata*	1
59180	*Ceraclea transversa*	0 +
59970	*Petrophila sp*	0 +
67800	*Tropisternus sp*	0 +
68075	*Psephenus herricki*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	3 +
69400	*Stenelmis sp*	0 +
71100	*Hexatoma sp*	0 +
74100	*Simulium sp*	9
77130	*Ablabesmyia rhamphe group*	28
77750	*Hayesomyia senata or Thienemannimyia norena*	0 +
77800	*Helopelopia sp*	28 +
78450	*Nilotanypus fimbriatus*	83
78750	*Rheopelopia paramaculipennis*	0 +
80310	*Cardiocladius obscurus*	0 +
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	8
80370	*Corynoneura lobata*	24
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	28
82101	*Thienemanniella n.sp 1*	28
82121	*Thienemanniella n.sp 3*	8
82130	*Thienemanniella similis*	16 +
82730	*Chironomus (C.) decorus group*	0 +
83002	*Dicrotendipes modestus*	0 +
83050	*Dicrotendipes lucifer*	28
83300	*Glyptotendipes (Phytotendipes) sp*	28 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	0 +
83840	*Microtendipes pedellus group*	0 +
84040	*Parachironomus frequens*	0 +
84450	*Polypedilum (P.) convictum*	111 +
84520	*Polypedilum (Tripodura) halterale group*	0 +
84700	*Stenochironomus sp*	83
85625	*Rheotanytarsus exiguus group*	1966 +
85840	*Tanytarsus guerlus group*	55
93900	*Elimia sp*	9 +
95100	*Physella sp*	0 +
97601	*Corbicula fluminea*	12 +

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-100 River: East Fork Little Miami River RM: 9.20

Taxa Code	Taxa	Quan/Qual	Taxa Code	Taxa	Quan/Qual
99680	*Leptodea fragilis*	0 +			

No. Quantitative Taxa:	42	Total Taxa:	82
No. Qualitative Taxa:	64	ICI:	**54**

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-100 River: East Fork Little Miami River RM: 6.70

Taxa Code	Taxa	Quan/Qual
1320	*Hydra sp*	64
1801	*Turbellaria*	135
3121	*Paludicella articulata*	1 +
3360	*Plumatella sp*	8 +
3451	*Urnatella gracilis*	0 +
3600	*Oligochaeta*	24 +
4666	*Helobdella triserialis*	0 +
5900	*Lirceus sp*	1 +
8250	*Orconectes (Procericambarus) rusticus*	0 +
8601	*Hydracarina*	0 +
1020	*Acerpenna pygmaeus*	3
1130	*Baetis intercalaris*	171 +
1700	*Baetidae (formerly in Pseudocloeon)*	3 +
2200	*Isonychia sp*	0 +
3400	*Stenacron sp*	135 +
3521	*Stenonema femoratum*	38 +
561	*Stenonema pulchellum*	173 +
700	*Tricorythodes sp*	331 +
200	*Caenis sp*	0 +
100	*Anthopotamus sp*	0 +
300	*Hetaerina sp*	18 +
300	*Argia sp*	50 +
804	*Basiaeschna janata*	0 +
909	*Boyeria vinosa*	0 +
300	*Neoperla clymene complex*	0 +
700	*Agnetina capitata complex*	0 +
400	*Trichocorixa sp*	0 +
500	*Sialis sp*	0 +
110	*Corydalus cornutus*	1 +
315	*Chimarra obscura*	9 +
906	*Psychomyia flavida*	145
06	*Cyrnellus fraternus*	52
00	*Neureclipsis sp*	45 +
00	*Cheumatopsyche sp*	415 +
30	*Hydropsyche (Ceratopsyche) morosa group*	75 +
40	*Hydropsyche (H.) dicantha*	0 +
00	*Protoptila sp*	0 +
04	*Dibusa angata*	1
00	*Hydroptila sp*	53
05	*Helicopsyche borealis*	1
40	*Ceraclea maculata*	5
00	*Oecetis sp*	27
59970	*Petrophila sp*	1 +
65800	*Berosus sp*	2 +
68075	*Psephenus herricki*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	2 +
69400	*Stenelmis sp*	17 +
71100	*Hexatoma sp*	0 +
74100	*Simulium sp*	0 +
77120	*Ablabesmyia mallochi*	12
77130	*Ablabesmyia rhamphe group*	12
77500	*Conchapelopia sp*	37
77750	*Hayesomyia senata or Thienemannimyia norena*	50 +
77800	*Helopelopia sp*	0 +
78140	*Labrundinia pilosella*	25
78401	*Natarsia species A (sensu Roback, 1978)*	0 +
78450	*Nilotanypus fimbriatus*	48 +
78750	*Rheopelopia paramaculipennis*	50
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	0 +
80370	*Corynoneura lobata*	8
80420	*Cricotopus (C.) bicinctus*	37
80430	*Cricotopus (C.) tremulus group*	12
81280	*Nanocladius (Plecopteracoluthus) n. sp*	12 +
81465	*Orthocladius (O.) carlatus*	12
82101	*Thienemanniella n.sp 1*	48
82130	*Thienemanniella similis*	0 +
82820	*Cryptochironomus sp*	0 +
83000	*Dicrotendipes sp*	12
83040	*Dicrotendipes neomodestus*	37
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	12
84040	*Parachironomus frequens*	12
84210	*Paratendipes albimanus or P. duplicatus*	0 +
84300	*Phaenopsectra obediens group*	25 +
84450	*Polypedilum (P.) convictum*	112 +
84470	*Polypedilum (P.) illinoense*	0 +
84475	*Polypedilum (P.) ophioides*	0 +
84490	*Polypedilum (P.) ontario*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	25
84700	*Stenochironomus sp*	37
85230	*Cladotanytarsus mancus group*	12
85625	*Rheotanytarsus exiguus group*	273 +

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/01/93 River Code: 11-100 River: East Fork Little Miami River RM: 6.70

Taxa Code	Taxa	Quan/Qual
85800	*Tanytarsus sp*	12
85814	*Tanytarsus glabrescens group*	25
87501	*Empididae*	57
93900	*Elimia sp*	525 +
94400	*Fossaria sp*	1
95100	*Physella sp*	4
96900	*Ferrissia sp*	20
97601	*Corbicula fluminea*	8 +

Taxa Code	Taxa	Quan/Qual

No. Quantitative Taxa: 62 Total Taxa: 90

No. Qualitative Taxa: 57 ICI: **46**

Appendix Table A-16. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-100 River: East Fork Little Miami River RM: 4.70

Taxa Code	Taxa	Quan/Qual
1801	*Turbellaria*	1 +
3040	*Fredericella sp*	0 +
3121	*Paludicella articulata*	0 +
3360	*Plumatella sp*	13
3451	*Urnatella gracilis*	0 +
3600	*Oligochaeta*	16 +
5900	*Lirceus sp*	1
8250	*Orconectes (Procericambarus) rusticus*	0 +
8601	*Hydracarina*	16
1130	*Baetis intercalaris*	170 +
1700	*Baetidae (formerly in Pseudocloeon)*	0 +
2200	*Isonychia sp*	0 +
2400	*Stenacron sp*	0 +
2510	*Stenonema exiguum*	1
2521	*Stenonema femoratum*	0 +
2561	*Stenonema pulchellum*	94 +
2570	*Stenonema terminatum*	0 +
2700	*Tricorythodes sp*	373 +
4200	*Caenis sp*	0 +
4300	*Anthopotamus sp*	0 +
4800	*Hetaerina sp*	0 +
5001	*Coenagrionidae*	0 +
5300	*Argia sp*	2 +
5504	*Basiaeschna janata*	0 +
5508	*Perithemis tenera*	0 +
6100	*Neoperla clymene complex*	0 +
6200	*Agnetina capitata complex*	0 +
6300	*Palmacorixa sp*	0 +
6400	*Trichocorixa sp*	0 +
7010	*Corydalus cornutus*	9 +
7015	*Chimarra obscura*	0 +
7106	*Cyrnellus fraternus*	4
7200	*Neureclipsis sp*	7 +
7300	*Cheumatopsyche sp*	499 +
7330	*Hydropsyche (Ceratopsyche) morosa group*	141 +
7340	*Hydropsyche (H.) dicantha*	5
7400	*Protoptila sp*	0 +
7500	*Hydroptila sp*	8 +
7810	*Ceraclea maculata*	1
7870	*Petrophila sp*	0 +
8000	*Berosus sp*	0 +
8010	*Enochrus sp*	0 +
67800	*Tropisternus sp*	0 +
68025	*Ectopria nervosa*	0 +
68075	*Psephenus herricki*	0 +
68601	*Ancyronyx variegata*	0 +
68708	*Dubiraphia vittata group*	0 +
68901	*Macronychus glabratus*	12
69400	*Stenelmis sp*	24 +
71100	*Hexatoma sp*	0 +
71900	*Tipula sp*	0 +
74100	*Simulium sp*	21
77750	*Hayesomyia senata or Thienemannimyia norena*	27 +
78450	*Nilotanypus fimbriatus*	53
78650	*Procladius sp*	0 +
78750	*Rheopelopia paramaculipennis*	106 +
80370	*Corynoneura lobata*	16
80410	*Cricotopus (C.) sp*	13
80420	*Cricotopus (C.) bicinctus*	53 +
81229	*Nanocladius (N.) crassicornus*	27
81240	*Nanocladius (N.) distinctus*	93
82101	*Thienemanniella n.sp 1*	13 +
82130	*Thienemanniella similis*	64
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	40
83050	*Dicrotendipes lucifer*	13
83300	*Glyptotendipes (Phytotendipes) sp*	27 +
84040	*Parachironomus frequens*	13
84060	*Parachironomus pectinatellae*	27
84450	*Polypedilum (P.) convictum*	146 +
84470	*Polypedilum (P.) illinoense*	40 +
84520	*Polypedilum (Tripodura) halterale group*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	66 +
84700	*Stenochironomus sp*	13
84750	*Stictochironomus sp*	0 +
84800	*Tribelos jucundum*	0 +
85625	*Rheotanytarsus exiguus group*	1302 +
85840	*Tanytarsus guerlus group*	0 +
86200	*Tabanus sp*	0 +
87501	*Empididae*	50
93900	*Elimia sp*	0 +
95100	*Physella sp*	0 +

Appendix Table A-16. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-100 River: East Fork Little Miami River RM: 4.70

Taxa Code	Taxa	Quan/Qual	Taxa Code	Taxa	Quan/Qual
96900	*Ferrissia sp*	109 +			
97601	*Corbicula fluminea*	1 +			

No. Quantitative Taxa:	44	Total Taxa:	85
No. Qualitative Taxa:	64	ICI:	**44**

Appendix Table A-10. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-100 River: East Fork Little Miami River RM: 1.90

Taxa Code	Taxa	Quan/Qual
1320	*Hydra sp*	16
1801	*Turbellaria*	2 +
3040	*Fredericella sp*	3 +
3121	*Paludicella articulata*	1 +
3360	*Plumatella sp*	12 +
3600	*Oligochaeta*	48 +
8601	*Hydracarina*	32
1130	*Baetis intercalaris*	142 +
2200	*Isonychia sp*	34 +
3000	*Leucrocuta sp*	0 +
3510	*Stenonema exiguum*	32
3550	*Stenonema mexicanum integrum*	16
3561	*Stenonema pulchellum*	447 +
5700	*Tricorythodes sp*	901 +
7200	*Caenis sp*	16 +
4100	*Anthopotamus sp*	0 +
7700	*Hexagenia sp*	0 +
8300	*Hetaerina sp*	2 +
9001	*Coenagrionidae*	0 +
8300	*Argia sp*	2 +
5700	*Macromia sp*	0 +
5700	*Agnetina capitata complex*	0 +
6400	*Trichocorixa sp*	0 +
6410	*Corydalus cornutus*	25 +
6206	*Cyrnellus fraternus*	29
6300	*Neureclipsis sp*	10 +
6200	*Cheumatopsyche sp*	749 +
6430	*Hydropsyche (Ceratopsyche) morosa group*	161 +
6540	*Hydropsyche (H.) dicantha*	29 +
6801	*Potamyia flava*	2
6800	*Hydroptila sp*	216
6840	*Ceraclea maculata*	1 +
6870	*Petrophila sp*	0 +
6875	*Psephenus herricki*	0 +
9101	*Ancyronyx variegata*	0 +
9108	*Dubiraphia vittata group*	0 +
9201	*Macronychus glabratus*	10 +
9300	*Stenelmis sp*	18 +
9400	*Simulium sp*	0 +
9420	*Ablabesmyia mallochi*	0 +
9430	*Ablabesmyia rhamphe group*	38
9500	*Conchapelopia sp*	76

Taxa Code	Taxa	Quan/Qual
77740	*Hayesomyia senata*	228 +
77800	*Helopelopia sp*	0 +
78401	*Natarsia species A (sensu Roback, 1978)*	0 +
78450	*Nilotanypus fimbriatus*	160
78750	*Rheopelopia paramaculipennis*	38 +
79085	*Telopelopia okoboji*	0 +
80310	*Cardiocladius obscurus*	38
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	64
80370	*Corynoneura lobata*	16
80410	*Cricotopus (C.) sp*	114 +
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	38 +
81240	*Nanocladius (N.) distinctus*	38
82121	*Thienemanniella n.sp 3*	16
82130	*Thienemanniella similis*	76
82141	*Thienemanniella xena*	38
82600	*Axarus sp*	0 +
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83040	*Dicrotendipes neomodestus*	228
83300	*Glyptotendipes (Phytotendipes) sp* -	152 +
83310	*Glyptotendipes (G.) amplus*	0 +
84040	*Parachironomus frequens*	38
84450	*Polypedilum (P.) convictum*	152 +
84470	*Polypedilum (P.) illinoense*	38 +
84540	*Polypedilum (Tripodura) scalaenum group*	38 +
84700	*Stenochironomus sp*	38
84750	*Stictochironomus sp*	0 +
84790	*Tribelos fuscicorne*	0 +
85625	*Rheotanytarsus exiguus group*	1978 +
85814	*Tanytarsus glabrescens group*	38
87501	*Empididae*	151 +
93900	*Elimia sp*	46 +
96120	*Menetus (Micromenetus) dilatatus*	1
96900	*Ferrissia sp*	0 +
97601	*Corbicula fluminea*	0 +
99640	*Truncilla donaciformis*	0 +

No. Quantitative Taxa: 53 Total Taxa: 78

No. Qualitative Taxa: 56 ICI: 48

Appendix Table A-16. Macroinvertebrate collection summary (by RM) for locations in the Little Miami River study area, 1993, continued.

Collection Date: 09/02/93 River Code: 11-100 River: East Fork Little Miami River RM: .80

Taxa Code	Taxa	Quan/Qual
01801	*Turbellaria*	0 +
03040	*Fredericella sp*	0 +
03360	*Plumatella sp*	0 +
03600	*Oligochaeta*	64 +
04666	*Helobdella triserialis*	0 +
08250	*Orconectes (Procericambarus) rusticus*	0 +
08601	*Hydracarina*	80 +
11130	*Baetis intercalaris*	154 +
12200	*Isonychia sp*	86 +
13000	*Leucrocuta sp*	0 +
13400	*Stenacron sp*	23 +
13510	*Stenonema exiguum*	206
13561	*Stenonema pulchellum*	183 +
13570	*Stenonema terminatum*	23
16700	*Tricorythodes sp*	757 +
18100	*Anthopotamus sp*	0 +
18700	*Hexagenia sp*	0 +
21300	*Hetaerina sp*	0 +
22001	*Coenagrionidae*	0 +
22300	*Argia sp*	10 +
23804	*Basiaeschna janata*	0 +
24900	*Gomphus sp*	0 +
34700	*Agnetina capitata complex*	0 +
42700	*Belostoma sp*	0 +
43300	*Ranatra sp*	0 +
45400	*Trichocorixa sp*	0 +
47600	*Sialis sp*	0 +
48410	*Corydalus cornutus*	14 +
51206	*Cyrnellus fraternus*	58
51300	*Neureclipsis sp*	22
52200	*Cheumatopsyche sp*	2099 +
52430	*Hydropsyche (Ceratopsyche) morosa group*	132 +
52510	*Hydropsyche (H.) aerata*	67
52540	*Hydropsyche (H.) dicantha*	4 +
52560	*Hydropsyche (H.) orris*	2
53800	*Hydroptila sp*	8 +
59100	*Ceraclea sp*	16
59970	*Petrophila sp*	32 +
65800	*Berosus sp*	0 +
67800	*Tropisternus sp*	0 +
68075	*Psephenus herricki*	0 +
68130	*Helichus sp*	0 +

Taxa Code	Taxa	Quan/Qual
68601	*Ancyronyx variegata*	1
68708	*Dubiraphia vittata group*	0 +
69400	*Stenelmis sp*	7 +
74100	*Simulium sp*	0 +
77120	*Ablabesmyia mallochi*	0 +
77130	*Ablabesmyia rhamphe group*	0 +
77500	*Conchapelopia sp*	0 +
77750	*Hayesomyia senata or Thienemannimyia norena*	160 +
77800	*Helopelopia sp*	0 +
78140	*Labrundinia pilosella*	0 +
78450	*Nilotanypus fimbriatus*	0 +
78750	*Rheopelopia paramaculipennis*	53 +
79085	*Telopelopia okoboji*	0 +
80310	*Cardiocladius obscurus*	0 +
80410	*Cricotopus (C.) sp*	53
80420	*Cricotopus (C.) bicinctus*	0 +
81231	*Nanocladius (N.) crassicornus or N. (N.) rectinervus*	53
82121	*Thienemanniella n.sp 3*	53
82130	*Thienemanniella similis*	160
82730	*Chironomus (C.) decorus group*	0 +
82820	*Cryptochironomus sp*	0 +
83000	*Dicrotendipes sp*	53
83040	*Dicrotendipes neomodestus*	106 +
83300	*Glyptotendipes (Phytotendipes) sp*	532 +
84155	*Paralauterborniella nigrohalteralis*	0 +
84450	*Polypedilum (P.) convictum*	266 +
84470	*Polypedilum (P.) illinoense*	0 +
84540	*Polypedilum (Tripodura) scalaenum group*	53 +
84651	*Stelechomyia perpulchra*	53
85625	*Rheotanytarsus exiguus group*	3829
87501	*Empididae*	32
93900	*Elimia sp*	13 +
96900	*Ferrissia sp*	1 +
97601	*Corbicula fluminea*	0 +
98600	*Sphaerium sp*	0 +

No. Quantitative Taxa:	39	Total Taxa:	77
No. Qualitative Taxa:	61	ICI:	50