

Watershed Summary Information

Accounting Unit Name:	St. Clair-Detroit
State(s):	MI
Political Boundaries:	St Clair, Macomb, Wayne
Major Waterways:	Middle Channel Clinton R South Channel North Channel L St Clair
Number of Stations in Watershed:	Tier1 - 13 Tier2 - 5 Tier3 - 1



Figure 59. Watershed Location Map

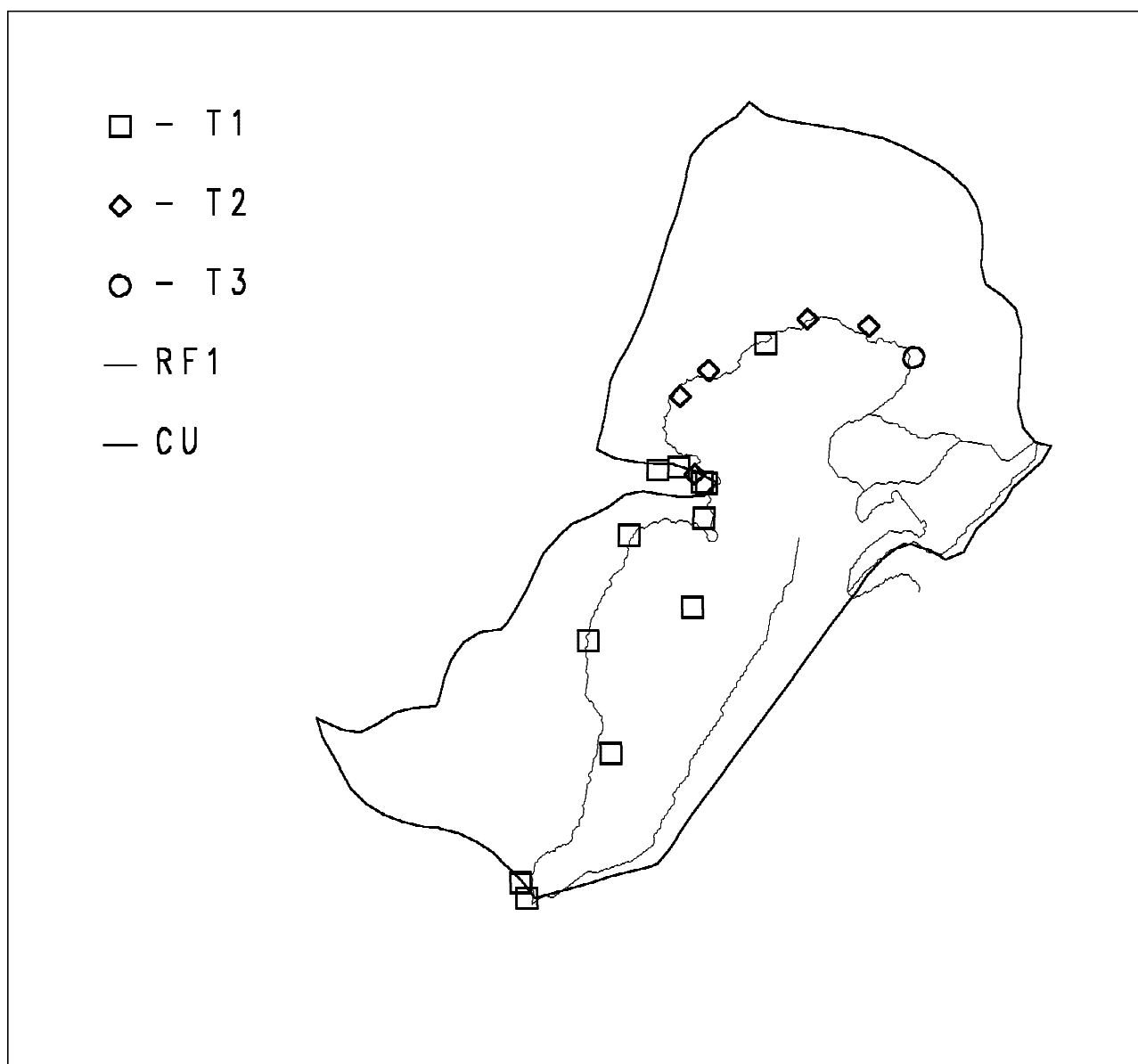


Figure 60. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **STORET** Agency: **1115GLSB**

Monitoring Program: **USEPA Region 5 Great Lakes Surveillance Branch Data**

Num. of Stations: 17 Date Range: 1981-85

Source: **STORET** Agency: **21MICH**

Monitoring Program: **Michigan Dept of Nat Res Surface Water Quality Data - Surface Water Quality Division**

Num. of Stations: 2 Date Range: 1980-82

Chemicals Responsible for Sampling Station Classification as Tier 1 or Tier 2

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Polychlorinated biphenyls	16	16	10	6	9	6	1	15
DDT	15	15	8	7	8	6	.	9
Copper	17	15	.	15	.	15	.	.
Nickel	17	15	.	15	.	15	.	.
Lead	17	14	.	14	.	14	.	.
Bis(2-ethylhexyl)phthalate	14	13	9	4	9	4	.	9
Pyrene	14	13	1	12	1	12	.	.
Chlordane	14	13	.	13	.	12	.	9
Fluoranthene	14	13	.	13	.	13	.	.
Mercury	17	11	1	10	1	10	.	.
Zinc	17	10	.	10	.	10	.	.
Benzo(a)anthracene/Chrysene	8	8	5	3	5	3	.	8
Silver	17	8	2	6	2	6	.	.
Cadmium	18	8	.	8	.	8	.	.
Phenanthrene	9	8	.	8	.	8	.	.
Di-n-butyl phthalate	13	6	.	6	.	6	.	.
Benzo(a)pyrene	6	5	3	2	3	2	.	5
Chromium	18	5	2	3	2	3	.	.
Dieldrin	6	5	.	5	.	5	.	5
Fluorene	6	5	.	5	.	5	.	.
Naphthalene	6	5	.	5	.	5	.	.
Anthracene	5	4	.	4	.	4	.	.
Arsenic	14	4	.	4	.	4	.	.
BHC	4	4	.	4	.	4	.	2
Anthracene&Phenanthrene	3	3	1	2	1	2	.	.
Diethyl phthalate	6	3	.	3	.	3	.	.
Acenaphthene	3	2	.	2	.	2	.	.
Indeno(1,2,3-cd)pyrene	3	2	.	2	.	2	.	2
Aldrin	1	1	.	1	.	.	.	1
Benzo(b)fluoranthene	2	1	.	1	.	.	.	1
Benzo(ghi)perylene	3	1	.	1	.	1	.	.
Butyl benzyl phthalate	3	1	.	1	.	1	.	.
Dichlorobenzene, 1,2-	1	1	.	1	.	1	.	.
Endosulfan, beta-	5	1	.	1	.	1	.	.
Heptachlor epoxide	2	1	.	1	.	.	.	1
Hexachlorobenzene	8	1	.	1	.	.	.	1

Sediment Chemistry Data: Chemical Summary

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Acenaphthene	4	47.50	45.00	2	100.00	90.00
Acenaphthylene	2	0.00	0.00	0	.	.
Aldrin	1	12.00	12.00	1	12.00	12.00
Anthracene	6	146.67	190.00	4	300.00	180.00
Anthracene&Phenanthrene	3	640.00	400.00	3	1190.00	330.00
Antimony	2	0.00	0.00	0	.	.
Arsenic	16	5175.00	5300.00	15	9500.00	1300.00
Benzene	5	5.40	5.00	3	11.00	5.00
Benzo(a)anthracene	2	0.00	0.00	0	.	.
Benzo(a)anthracene/Chrysene	8	2406.25	2050.00	8	6400.00	400.00
Benzo(a)pyrene	7	1388.57	1200.00	5	2800.00	1000.00
Benzo(b)fluoranthene	3	780.00	0.00	1	2340.00	2340.00
Benzo(ghi)perylene	4	425.00	300.00	2	1100.00	600.00
Bis(2-ethylhexyl)phthalate	15	5179.33	3400.00	13	16200.00	490.00
Butyl benzyl phthalate	4	425.00	400.00	2	900.00	800.00
BHC	4	15.50	15.00	4	29.00	3.00
Cadmium	18	2300.00	450.00	12	13000.00	300.00
Chlordane	13	32.77	17.00	13	196.00	2.00
Chromium	18	65222.22	33500.00	18	280000.0	4700.00
Chrysene	2	0.00	0.00	0	.	.
Copper	18	58850.00	45000.00	18	130000.0	4800.00
Di-n-butyl phthalate	14	1135.71	333.00	12	4000.00	85.00
Di-n-octyl phthalate	2	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	2	0.00	0.00	0	.	.
Dibenzofuran	1	50.00	50.00	1	50.00	50.00
Dichlorobenzene, 1,2-	1	100.00	100.00	1	100.00	100.00
Dichlorobenzene, 1,3-	2	75.00	75.00	2	100.00	50.00
Dichloromethane	11	114.83	1.50	9	940.00	0.90
Dieldrin	5	14.20	4.00	5	47.00	3.00
Diethyl phthalate	7	157.14	100.00	5	300.00	100.00
DCPA/Dacthal	3	16.67	21.00	3	27.00	2.00
DDT	57	36.84	15.00	55	240.00	3.00
Endosulfan, beta-	5	8.20	6.00	5	17.00	3.00
Endrin	2	1.00	1.00	1	2.00	2.00
Fluoranthene	15	976.00	700.00	13	2700.00	200.00
Fluorene	7	131.43	100.00	5	500.00	60.00
Heptachlor	2	0.00	0.00	0	.	.
Heptachlor epoxide	1	6.00	6.00	1	6.00	6.00
Hexachlorobenzene	7	4.43	3.00	4	17.00	3.00
Indeno(1,2,3-cd)pyrene	4	400.00	350.00	2	900.00	700.00
Lead	18	107811.1	74000.00	18	410000.0	10000.00
Mercury	17	294.12	300.00	15	800.00	100.00

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Methoxychlor	1	9.00	9.00	1	9.00	9.00
Naphthalene	7	144.29	120.00	5	340.00	100.00
Nickel	18	52133.33	32500.00	18	200000.0	6000.00
Phenanthrene	10	548.00	450.00	8	1100.00	200.00
Phenol	2	0.00	0.00	0	.	.
Polychlorinated biphenyls	31	501.77	223.00	28	2210.00	31.00
Pyrene	15	989.33	700.00	13	3200.00	200.00
Silver	18	1072.22	500.00	10	4200.00	400.00
Tetrachloroethane, 1,1,2,2-	1	12.20	12.20	1	12.20	12.20
Toluene	3	5.33	5.00	3	6.00	5.00
Tribromomethane/Bromoform	1	7.70	7.70	1	7.70	7.70
Trichloroethane, 1,1,1-	2	0.00	0.00	0	.	.
Trichloroethene	3	3.33	0.00	1	10.00	10.00
Trichloromethane/Chloroform	2	0.00	0.00	0	.	.
Zinc	18	193644.4	140000.0	18	590000.0	19000.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Cadmium	20	0.00	0.00	0	.	.
Chlordane	20	11.50	0.00	1	230.00	230.00
Chromium	20	113.50	120.00	12	400.00	120.00
Dieldrin	20	0.00	0.00	0	.	.
DDT	80	292.60	230.00	61	1920.00	74.00
Heptachlor epoxide	20	0.00	0.00	0	.	.
Hexachlorobenzene	20	25.40	18.50	18	82.00	5.00
Mercury	20	195.50	190.00	18	380.00	100.00
Polychlorinated biphenyls	80	1255.00	1050.00	60	5400.00	310.00
Toxaphene	20	0.00	0.00	0	.	.