

**Watershed Summary Information**

<b>Accounting Unit Name:</b>	St. Clair-Detroit
<b>State(s):</b>	MI
<b>Political Boundaries:</b>	Wayne, Washtenaw, Oakland
<b>Major Waterways:</b>	Detroit R River Rouge Lower River Rouge
<b>Number of Stations in Watershed:</b>	Tier1 - 85 Tier2 - 29 Tier3 - 1



Figure 61. Watershed Location Map

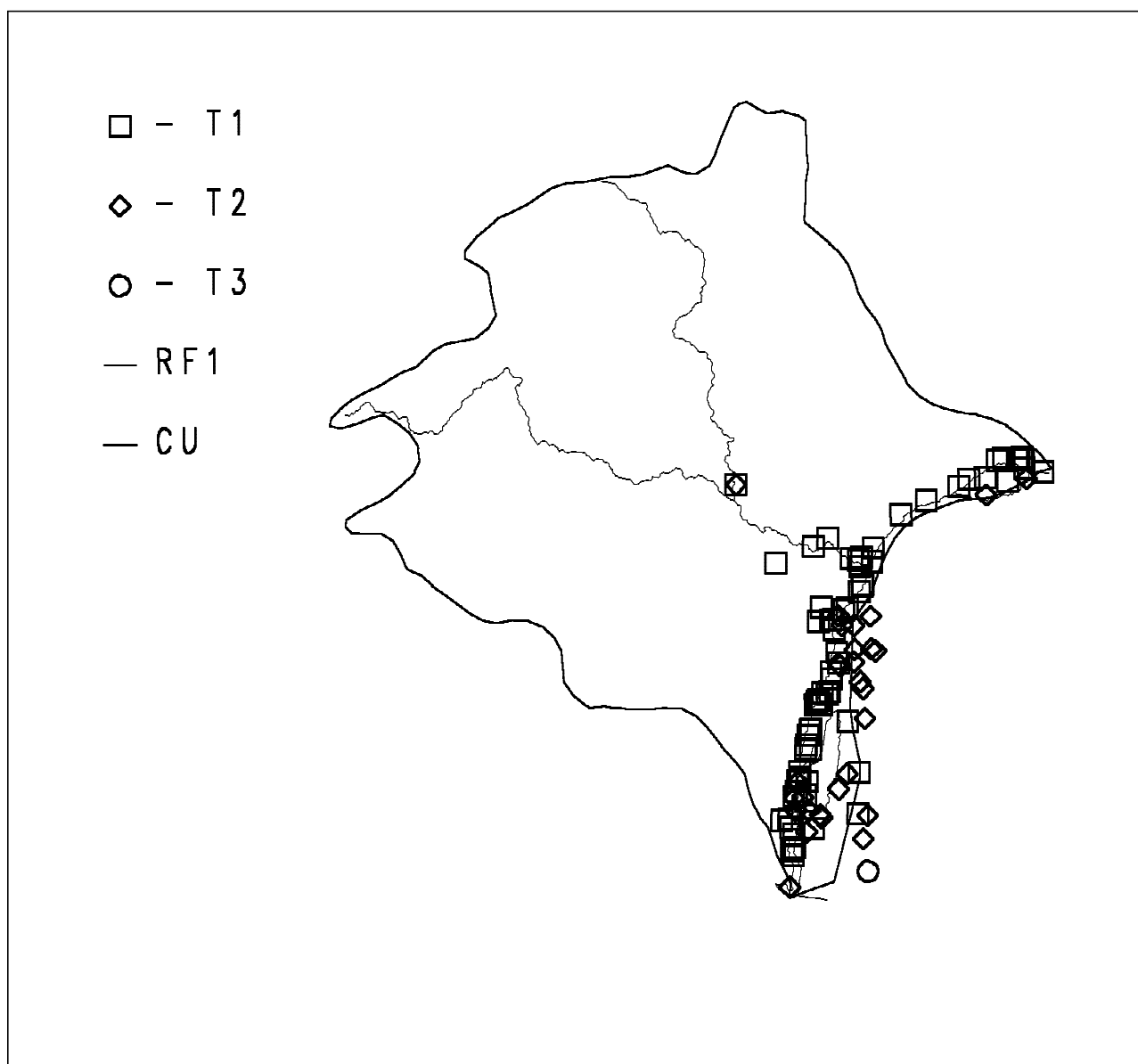


Figure 62. Major Waterways and Location of Sampling Stations

## Data Source(s) Used in Evaluation

Source: **STORET** Agency: **11BIOACC**  
 Monitoring Program: **USEPA National Bioaccumulation Study**  
 Num. of Stations: 1 Date Range: 1985

Source: **STORET** Agency: **11140100**  
 Monitoring Program: **USEPA Region 5 Data**  
 Num. of Stations: 1 Date Range: 1980

Source: **STORET** Agency: **1115GLSB**  
 Monitoring Program: **USEPA Region 5 Great Lakes Surveillance Branch Data**  
 Num. of Stations: 52 Date Range: 1982-85

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

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

Num. of Stations: 31 Date Range: 1980-82

Source: **STORET** Agency: **51UGLCC**

Monitoring Program: **EPA And Canada Cooperative EPA Large Lakes Res Lab**

Num. of Stations: 30 Date Range: 1986

## 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	108	105	74	31	73	28	1	104
Nickel	113	105	.	105	.	105	.	.
Copper	112	97	.	97	.	97	.	.
Zinc	113	93	.	93	.	93	.	.
Lead	109	89	.	89	.	89	.	.
Cadmium	112	79	.	79	.	79	.	.
Mercury	104	69	42	27	42	27	.	.
Chromium	113	69	15	54	15	54	.	.
Fluoranthene	76	67	19	48	19	48	.	.
Pyrene	76	66	37	29	37	29	.	.
Phenanthrene	74	63	44	19	44	19	.	.
Naphthalene	66	51	34	17	34	17	.	.
Arsenic	73	50	.	50	.	50	.	.
DDT	48	48	41	7	41	7	.	40
Bis(2-ethylhexyl)phthalate	71	43	36	7	36	7	.	36
Anthracene	63	43	19	24	19	24	.	.
Benzo(a)pyrene	54	41	28	13	28	13	.	41
Fluorene	60	38	21	17	21	17	.	.
Chlordane	38	36	.	36	.	35	.	28
Indeno(1,2,3-cd)pyrene	54	36	.	36	.	32	.	36
Silver	82	35	16	19	16	19	.	.
Benzo(a)anthracene/Chrysene	34	34	33	1	33	1	.	34
Acenaphthene	55	29	13	16	13	16	.	.
Methylnaphthalene, 2-	28	28	16	12	16	12	.	.
Benzo(ghi)perylene	51	27	.	27	.	27	.	.
Acenaphthylene	41	19	5	14	5	14	.	.
Benzo(b)fluoranthene	29	19	.	19	.	4	.	19
Benzo(a)anthracene	29	18	5	13	5	13	.	17
Chrysene	29	17	4	13	4	13	.	2
Hexachlorobenzene	59	17	.	17	.	17	.	2
Dichlorobenzene, 1,4-	16	12	3	9	3	9	.	.
BHC	10	10	1	9	1	8	.	10
Dieldrin	10	10	.	10	.	9	.	10

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Phenol	43	10	.	10	.	10	.	.
Cresol, p-	17	8	.	8	.	8	.	.
Di-n-butyl phthalate	51	8	.	8	.	8	.	.
Dibenzofuran	18	7	2	5	2	5	.	.
Dimethylphenol, 2,4-	6	6	.	6	.	6	.	.
Ethylbenzene	20	6	.	6	.	6	.	.
Dibenzo(a,h)anthracene	29	5	3	2	3	2	.	5
Dichlorobenzene, 1,2-	6	5	1	4	1	4	.	.
Heptachlor epoxide	6	5	.	5	.	.	.	5
Xylenes	11	4	1	3	1	3	.	.
Aldrin	4	4	.	4	.	.	.	4
Heptachlor	32	2	.	2	.	.	.	2
Diethyl phthalate	31	1	1	.	1	.	.	.
Dioxins	1	1	1	.	.	.	1	.
Butyl benzyl phthalate	31	1	.	1	.	1	.	.
Endosulfan, beta-	7	1	.	1	.	1	.	.
Hexachlorobutadiene	2	1	.	1	.	1	.	1
Methoxychlor	2	1	.	1	.	1	.	.
Toluene	20	1	.	1	.	1	.	.
Trichlorobenzene, 1,2,4-	2	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	84	817.64	0.00	30	42300.00	40.00
Acenaphthylene	70	259.49	0.00	20	4328.00	70.00
Aldrin	4	34.00	36.00	4	49.00	15.00
Anthracene	92	1764.80	89.50	46	53000.00	179.00
Antimony	58	513.79	0.00	1	29800.00	29800.00
Arsenic	103	8431.07	7900.00	85	54000.00	1800.00
Benzene	63	0.83	0.00	6	21.00	2.50
Benzo(a)anthracene	58	2171.16	0.00	28	46270.00	152.00
Benzo(a)anthracene/Chrysene	34	11605.59	8180.00	34	81900.00	570.00
Benzo(a)pyrene	83	5030.72	290.00	49	67500.00	169.00
Benzo(b)fluoranthene	58	2465.05	92.00	29	49250.00	184.00
Benzo(ghi)perylene	80	1744.36	0.00	38	14300.00	167.00
Bis(2-ethylhexyl)phthalate	100	6326.56	0.00	46	175000.0	137.00
Butyl benzyl phthalate	60	39.45	0.00	4	1700.00	145.00
BHC	10	97.20	78.50	10	200.00	15.00
Cadmium	154	6351.38	1649.00	95	96110.00	400.00
Chlordane	37	33.32	21.00	36	149.00	2.00
Chlorobenzene	6	6.22	4.35	6	15.60	2.00

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Chromium	146	97726.58	49200.00	146	630000.0	3500.00
Chrysene	58	2119.34	0.00	25	44780.00	156.00
Copper	150	104569.4	51090.00	142	960000.0	3800.00
Cresol, p-	17	1388.24	630.00	17	6700.00	90.00
Di-n-butyl phthalate	80	511.74	0.00	25	5690.00	137.00
Di-n-octyl phthalate	60	14.02	0.00	3	420.00	122.00
Dibenzo(a,h)anthracene	58	133.79	0.00	6	4179.00	147.00
Dibenzofuran	18	972.78	355.00	18	3620.00	70.00
Dibromochloromethane	2	3.30	3.30	2	3.60	3.00
Dichlorobenzene, 1,2-	6	162.45	110.00	6	500.00	14.70
Dichlorobenzene, 1,3-	4	367.50	230.00	4	940.00	70.00
Dichlorobenzene, 1,4-	16	234.38	195.00	16	900.00	50.00
Dichloroethane 1,1-	2	3001.55	3001.55	2	6000.00	3.10
Dichloroethene, trans-1,2-	2	254.00	254.00	2	500.00	8.00
Dichloromethane	91	16.95	0.00	42	196.00	0.80
Dichloropropane, 1,2-	2	2.45	2.45	2	2.90	2.00
Dieldrin	9	7.67	5.00	9	14.00	3.00
Diethyl phthalate	60	22.18	0.00	2	1194.00	137.00
Dimethylphenol, 2,4-	6	3670.00	345.00	6	20400.00	80.00
DCPA/Dacthal	4	18.75	11.00	4	48.00	5.00
DDT	185	85.36	37.00	184	1302.00	2.00
Endosulfan, beta-	7	8.57	10.00	7	14.00	1.00
Ethylbenzene	20	17.37	4.10	20	201.00	1.90
Fluoranthene	105	5291.38	1400.00	77	119300.0	137.00
Fluorene	89	660.67	0.00	40	12600.00	60.00
Heptachlor	60	0.28	0.00	2	10.00	7.00
Heptachlor epoxide	5	60.20	61.00	5	106.00	7.00
Hexachlorobenzene	58	61.67	11.50	55	1800.00	0.49
Hexachlorobutadiene	1	2000.00	2000.00	1	2000.00	2000.00
Indeno(1,2,3-cd)pyrene	83	1718.43	0.00	41	20900.00	145.00
Isophorone	2	485.00	485.00	2	900.00	70.00
Lead	142	188418.5	64520.00	135	1700000	4300.00
Mercury	134	545.43	200.00	76	3600.00	30.40
Methoxychlor	1	104.00	104.00	1	104.00	104.00
Methylnaphthalene, 2-	28	1677.86	850.00	28	11200.00	170.00
Naphthalene	95	1278.39	213.00	54	16800.00	120.00
Nickel	147	61936.94	38000.00	147	290000.0	4760.00
Pentachlorophenol	2	0.00	0.00	0	.	.
Phenanthrene	103	4189.01	1020.00	74	85600.00	132.00
Phenol	72	162.61	0.00	18	2460.00	80.00
Polychlorinated biphenyls	373	530.72	50.00	223	6940.00	8.70
Pyrene	105	5003.76	1360.00	76	86100.00	156.00
Silver	113	1084.07	0.00	43	9000.00	300.00
Tetrachloroethane, 1,1,2,2-	8	16.99	18.20	8	27.00	6.60

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Tetrachloroethene	6	2.55	2.05	6	4.30	1.50
Toluene	20	245.89	9.50	20	3300.00	2.00
Tribromomethane/Bromoform	4	9.83	10.20	4	13.70	5.20
Trichlorobenzene, 1,2,4-	1	110.00	110.00	1	110.00	110.00
Trichloroethane, 1,1,1-	58	0.05	0.00	2	2.00	1.00
Trichloroethane, 1,1,2-	1	6.30	6.30	1	6.30	6.30
Trichloroethene	73	4.86	0.00	17	50.00	3.00
Trichloromethane/Chloroform	59	0.49	0.00	3	17.00	5.00
Xylenes	11	32.65	11.00	11	181.00	2.00
Zinc	150	480280.0	255900.0	150	3500000	13900.00

## Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Biphenyl	1	12.40	12.40	1	12.40	12.40
BHC	2	10.40	10.40	1	20.80	20.80
Chlordane	2	74.55	74.55	2	95.30	53.80
Chlorpyrifos/Dursban	1	9.44	9.44	1	9.44	9.44
Dicofol/Kelthane	1	0.00	0.00	0	.	.
Dieldrin	1	99.00	99.00	1	99.00	99.00
Dioxins	2	0.02	0.02	2	0.03	0.02
Endrin	1	0.00	0.00	0	.	.
Heptachlor	1	0.00	0.00	0	.	.
Heptachlor epoxide	1	0.00	0.00	0	.	.
Hexachlorobenzene	1	25.30	25.30	1	25.30	25.30
Hexachlorobutadiene	1	0.00	0.00	0	.	.
Isopropalin	1	0.00	0.00	0	.	.
Mercury	1	80.00	80.00	1	80.00	80.00
Methoxychlor	1	0.00	0.00	0	.	.
Mirex/Dechlorane	1	3.98	3.98	1	3.98	3.98
Pentachlorobenzene	1	3.64	3.64	1	3.64	3.64
Pentachloronitrobenzene/Quin	1	0.00	0.00	0	.	.
Polychlorinated biphenyls	1	11120.00	11120.00	1	11120.00	11120.00
Tetrachlorobenzene, 1,2,4,5-	1	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	1	3.33	3.33	1	3.33	3.33
Trifluralin/Treflan	1	0.00	0.00	0	.	.