

Watershed Summary Information

Accounting Unit Name:	St. Lawrence
State(s):	NY
Political Boundaries:	St Lawrence, Jefferson, Franklin
Major Waterways:	St Lawrence R Oswegatchie R Raquette R Grass R Brandy Bk
Number of Stations in Watershed:	Tier1 - 21 Tier2 - 5 Tier3 - 5

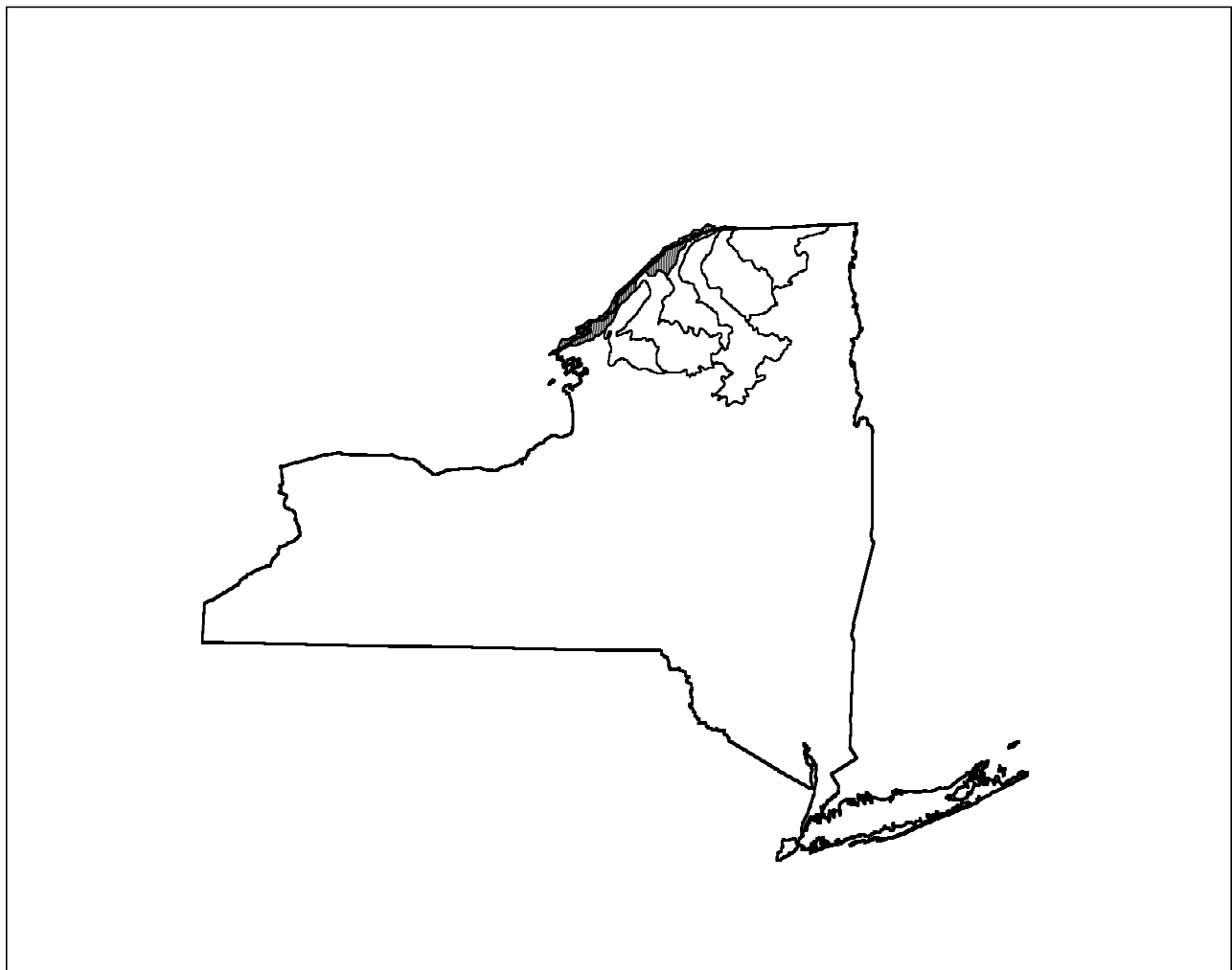


Figure 83. Watershed Location Map

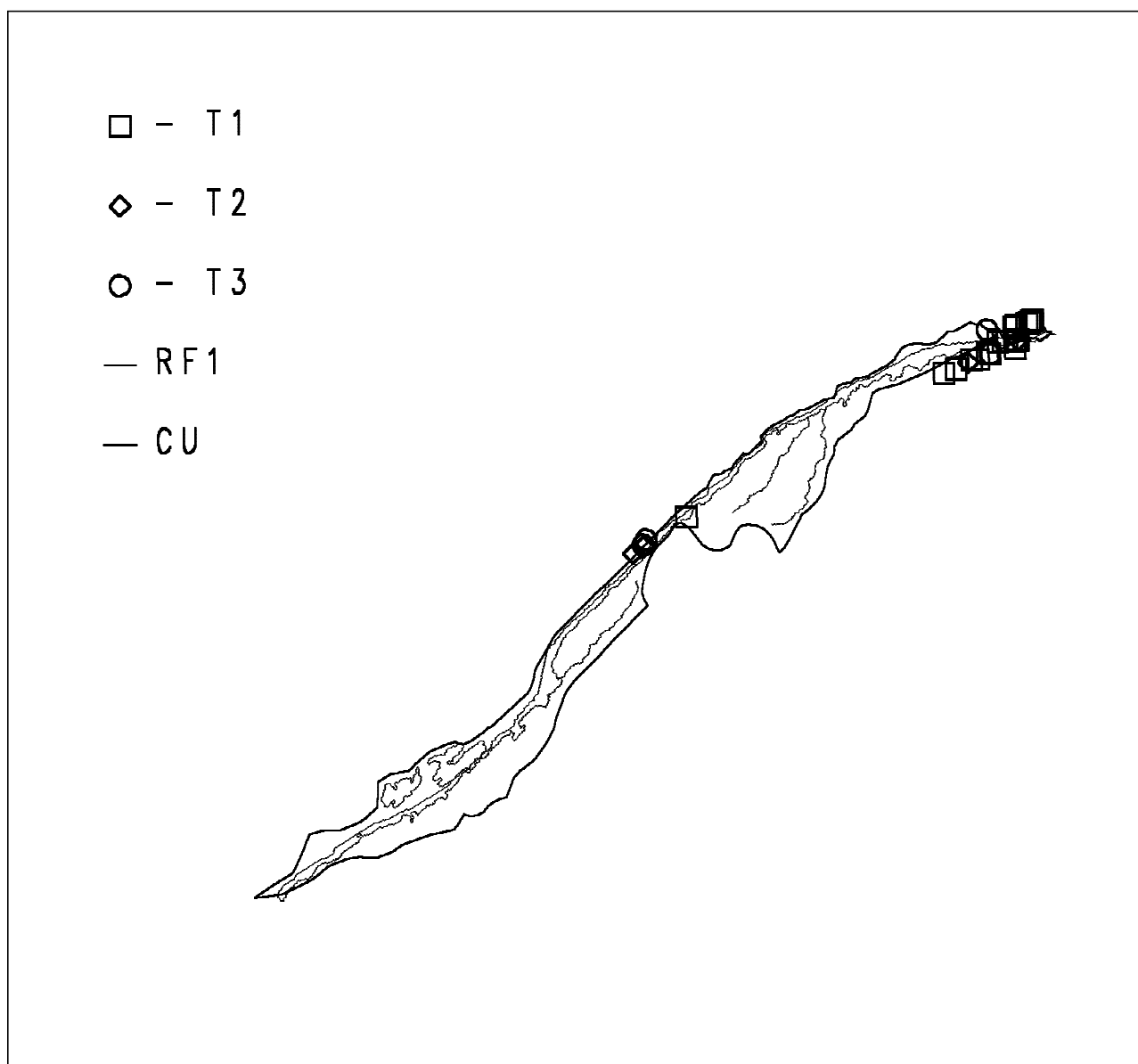


Figure 84. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **STORET** Agency: **11BIOACC**
 Monitoring Program: **USEPA National Bioaccumulation Study**
 Num. of Stations: 3 Date Range: 1987-88

Source: **STORET** Agency: **11FWS**
 Monitoring Program: **US Fish & Wildlife Service Data - USEPA Hq Backdata Study**
 Num. of Stations: 1 Date Range: 1984-86

Source: **STORET** Agency: **1115GLSB**
 Monitoring Program: **USEPA Region 5 Great Lakes Surveillance Branch Data**
 Num. of Stations: 19 Date Range: 1984

Source: **STORET** Agency: **112WRD**
Monitoring Program: **US Geological Survey Data**
Num. of Stations: 2 Date Range: 1991

Source: **STORET** Agency: **21NYDECA**
Monitoring Program: **NY Dept of Env. Cons. Water Quality Network Data**
Num. of Stations: 4 Date Range: 1983-92

Source: **STORET** Agency: **21NYDEC1**
Monitoring Program: **New York State Dept of Environ Conserv Data**
Num. of Stations: 2 Date Range: 1983-86

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	29	26	21	5	17	4	4	22
Copper	23	14	.	14	.	14	.	.
Lead	23	14	.	14	.	14	.	.
Mercury	26	13	5	8	5	8	.	.
Phenanthrene	13	13	5	8	5	8	.	.
Fluoranthene	13	13	4	9	4	9	.	.
Nickel	22	13	.	13	.	13	.	.
Pyrene	13	12	4	8	4	8	.	.
Benzo(a)anthracene/Chrysene	11	11	8	3	8	3	.	11
Benzo(a)pyrene	11	11	7	4	7	4	.	11
Zinc	23	11	.	11	.	11	.	.
Anthracene	10	10	4	6	4	6	.	.
Chlordane	17	9	.	9	.	9	.	4
Silver	19	9	.	9	.	9	.	.
Fluorene	8	8	3	5	3	5	.	.
Bis(2-ethylhexyl)phthalate	7	7	4	3	4	3	.	4
Acenaphthene	7	7	2	5	2	5	.	.
Chromium	21	7	.	7	.	7	.	.
BHC	15	6	2	4	2	4	.	3
DDT	12	6	1	5	1	5	.	1
Cadmium	24	6	.	6	.	6	.	.
Naphthalene	5	5	1	4	1	4	.	.
Hexachlorobenzene	14	4	.	4	.	4	.	1
Indeno(1,2,3-cd)pyrene	4	4	.	4	.	3	.	4
Dibenzo(a,h)anthracene	3	3	3	.	3	.	.	3
Dioxins	3	3	3	.	.	.	3	.
Methylnaphthalene, 2-	3	3	1	2	1	2	.	.
Arsenic	19	3	.	3	.	3	.	.
Dieldrin	8	3	.	3	.	.	.	3
Dibenzofuran	7	2	1	1	1	1	.	.

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Heptachlor epoxide	10	2	.	2	.	.	.	2
Tetrachloroethene	2	1	1	.	1	.	.	1
Aldrin	5	1	.	1	.	.	.	1
Benzo(ghi)perylene	1	1	.	1	.	1	.	.
Cresol, p-	1	1	.	1	.	1	.	.
Endosulfan, beta-	5	1	.	1	.	1	.	.
Mirex/Decchlorane	8	1	.	1	.	.	.	1
Toxaphene	5	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	7	747.14	300.00	7	3700.00	30.00
Aldrin	5	0.00	0.00	0	.	.
Anthracene	11	16327.27	600.00	11	91100.00	200.00
Arsenic	18	4594.44	4750.00	18	10000.00	700.00
Benzene	1	6.40	6.40	1	6.40	6.40
Benzo(a)anthracene/Chrysene	11	56610.91	3700.00	11	268800.0	550.00
Benzo(a)pyrene	11	24965.45	2500.00	11	113100.0	800.00
Benzo(ghi)perylene	1	12600.00	12600.00	1	12600.00	12600.00
Bis(2-ethylhexyl)phthalate	7	4131.43	3620.00	7	8100.00	1300.00
BHC	26	2.81	0.00	6	33.00	2.00
Cadmium	24	442.50	190.00	14	2400.00	110.00
Chlordane	14	14.14	5.50	9	95.00	5.00
Chlorpyrifos/Dursban	5	0.00	0.00	0	.	.
Chromium	22	51513.64	36000.00	22	220000.0	3300.00
Copper	22	51981.82	39500.00	22	250000.0	2800.00
Cresol, p-	1	2500.00	2500.00	1	2500.00	2500.00
Di-n-butyl phthalate	11	524.55	500.00	11	1200.00	100.00
Di-n-octyl phthalate	1	300.00	300.00	1	300.00	300.00
Diazinon/Spectracide	2	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	3	9596667	3100000	3	25300000	390000.0
Dibenzofuran	7	678.57	300.00	7	2400.00	50.00
Dichloroethane 1,1-	2	9.10	9.10	2	14.40	3.80
Dichloroethene, trans-1,2-	1	2.30	2.30	1	2.30	2.30
Dichloromethane	16	12.01	12.30	16	17.40	4.80
Dieldrin	5	0.00	0.00	0	.	.
Diethyl phthalate	2	55.00	55.00	2	60.00	50.00
DDT	23	12.30	0.00	9	104.00	1.00
Endosulfan, alpha-	5	0.00	0.00	0	.	.
Endosulfan, beta-	6	4.50	0.00	1	27.00	27.00
Endrin	5	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Ethion/Bladen	2	0.00	0.00	0	.	.
Fluoranthene	13	32946.15	1600.00	13	187900.0	250.00
Fluorene	8	1777.50	350.00	8	8700.00	40.00
Heptachlor	5	0.00	0.00	0	.	.
Heptachlor epoxide	7	39.57	0.00	2	186.00	91.00
Hexachlorobenzene	11	66.64	14.00	11	288.00	3.00
Indeno(1,2,3-cd)pyrene	4	6687.50	4085.00	4	18000.00	580.00
Lead	22	73895.45	55500.00	20	480000.0	3300.00
Malathion	2	0.00	0.00	0	.	.
Mercury	22	650.00	225.00	19	5080.00	40.00
Methoxychlor	5	0.00	0.00	0	.	.
Methylnaphthalene, 2-	3	65533.33	200.00	3	196300.0	100.00
Mirex/Dechlorane	5	0.00	0.00	0	.	.
Naphthalene	5	206.00	100.00	5	700.00	40.00
Nickel	22	38354.55	26500.00	21	160000.0	2300.00
Phenanthrene	13	10830.00	700.00	13	57300.00	110.00
Polychlorinated biphenyls	229	2152.35	0.00	85	197500.0	0.01
Pyrene	13	20926.92	1050.00	13	107200.0	150.00
Silver	19	614.21	600.00	11	1500.00	300.00
Tetrachloroethane, 1,1,2,2-	5	8.38	7.10	5	19.10	2.20
Tetrachloroethene	2	1752.35	1752.35	2	3500.00	4.70
Toluene	10	170.43	40.10	10	770.30	3.30
Toxaphene	5	0.00	0.00	0	.	.
Zinc	22	259118.2	115000.0	22	1700000	9600.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	1	10.00	10.00	1	10.00	10.00
Arsenic	1	53.00	53.00	1	53.00	53.00
Biphenyl	5	0.00	0.00	0	.	.
BHC	14	3.82	1.43	7	10.00	2.87
Cadmium	1	16.43	16.43	1	16.43	16.43
Chlordane	18	9.55	10.00	13	38.50	3.01
Chlorpyrifos/Dursban	5	0.00	0.00	0	.	.
Copper	1	742.00	742.00	1	742.00	742.00
Dicofol/Kelthane	5	0.00	0.00	0	.	.
Dieldrin	7	19.56	12.60	7	43.00	5.55
Dioxins	8	0.01	0.00	8	0.02	0.00
DCPA/Dacthal	2	10.00	10.00	2	10.00	10.00
DDT	7	59.36	42.10	7	150.00	10.00
Endrin	7	2.86	0.00	2	10.00	10.00

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Heptachlor	7	2.86	0.00	2	10.00	10.00
Heptachlor epoxide	6	2.53	0.00	2	10.00	5.17
Hexachlorobenzene	7	6.26	10.00	4	12.70	10.00
Hexachlorobutadiene	5	0.00	0.00	0	.	.
Isopropalin	5	0.00	0.00	0	.	.
Lead	1	185.50	185.50	1	185.50	185.50
Mercury	4	135.48	130.95	4	170.00	110.00
Methoxychlor	5	0.00	0.00	0	.	.
Mirex/Dechlorane	7	46.45	10.00	7	137.00	5.53
Pentachlorobenzene	5	0.00	0.00	0	.	.
Pentachloronitrobenzene/Quin	5	0.00	0.00	0	.	.
Polychlorinated biphenyls	12	2699.72	300.00	12	12030.00	100.00
Selenium	1	318.00	318.00	1	318.00	318.00
Tetrachlorobenzene, 1,2,4,5-	5	0.00	0.00	0	.	.
Toxaphene	2	100.00	100.00	2	100.00	100.00
Trichlorobenzene, 1,2,4-	5	0.00	0.00	0	.	.
Trifluralin/Treflan	5	0.00	0.00	0	.	.
Zinc	1	13620.00	13620.00	1	13620.00	13620.00