

Watershed Summary Information

Accounting Unit Name:	Long Island
State(s):	NY
Political Boundaries:	Suffolk, Nassau, Kings, Queens
Major Waterways:	Peconic R Carmans Cr Connet Quot R
Number of Stations in Watershed:	Tier1 - 11 Tier2 - 24 Tier3 - 8



Figure 13. Watershed Location Map

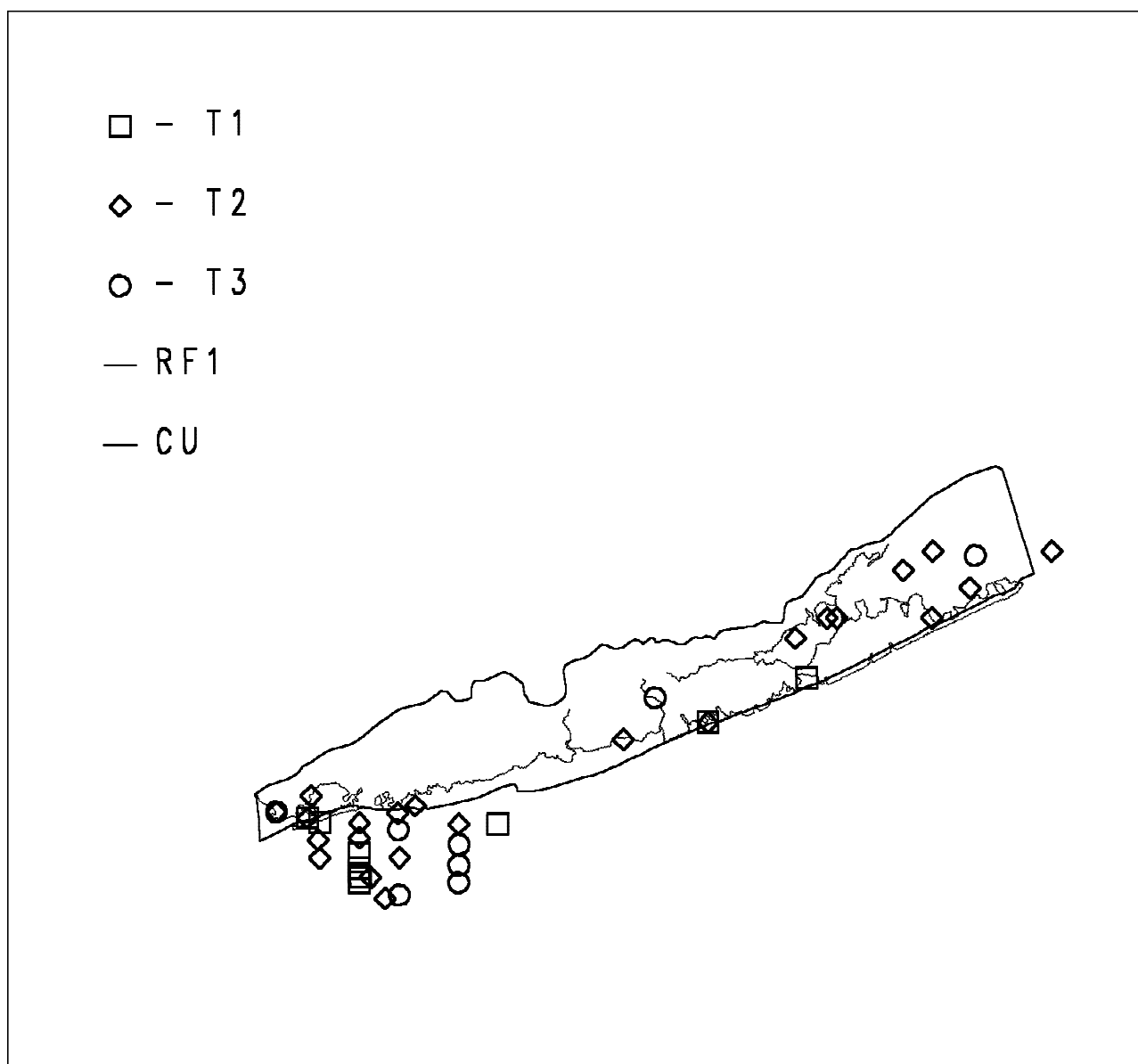


Figure 14. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **COSED** Agency: **NS&T**
 Monitoring Program: **NOAA/National Status and Trends**
 Num. of Stations: 9 Date Range: 1986-90

Source: **EMAP-VA** Agency: **EMAPVA**
 Monitoring Program: **EMAP-VA Province**
 Num. of Stations: 9 Date Range: 1990-91

Source: **SEACOE** Agency: **NOAA84**
 Monitoring Program: **Benthic Surveillance 1984**
 Num. of Stations: 3 Date Range: 1984

Source: **STORET** Agency: **111H030**
Monitoring Program: **USEPA Region 2 Data**
Num. of Stations: 19 Date Range: 1980-88

Source: **STORET** Agency: **112WRD**
Monitoring Program: **US Geological Survey Data**
Num. of Stations: 1 Date Range: 1986

Source: **STORET** Agency: **21NYDECA**
Monitoring Program: **NY Dept of Env. Cons. Water Quality Network Data**
Num. of Stations: 1 Date Range: 1984

Source: **STORET** Agency: **21NYDEC1**
Monitoring Program: **New York State Dept of Environ Conserv Data**
Num. of Stations: 1 Date Range: 1984

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
Lead	37	23	.	23	.	23	.	.
Copper	40	20	.	20	.	20	.	.
Mercury	32	19	7	12	7	12	.	.
Arsenic	35	16	.	16	.	16	.	.
Chromium	38	13	1	12	1	12	.	.
Benzo(a)pyrene	16	13	.	13	.	6	.	13
Silver	40	12	4	8	4	8	.	.
Nickel	35	11	.	11	.	11	.	.
Zinc	40	10	.	10	.	10	.	.
DDT	19	9	4	5	4	5	.	.
Polychlorinated biphenyls	12	9	1	8	1	4	.	9
Cadmium	39	9	.	9	.	9	.	.
Naphthalene	14	9	.	9	.	9	.	.
Dibenzo(a,h)anthracene	14	7	1	6	1	6	.	6
Benzo(a)anthracene	19	7	.	7	.	7	.	1
BHC	18	7	.	7	.	7	.	.
Pyrene	19	7	.	7	.	7	.	.
Chrysene	18	6	.	6	.	6	.	.
Bis(2-ethylhexyl)phthalate	5	3	2	1	2	1	.	2
Aldrin	16	3	.	3	.	.	.	3
Butyl benzyl phthalate	3	3	.	3	.	3	.	.
Dieldrin	18	3	.	3	.	.	.	3
Anthracene	12	2	.	2	.	2	.	.
Chlordane	19	2	.	2	.	2	.	.
Fluorene	14	2	.	2	.	2	.	.
Fluoranthene	20	1	.	1	.	1	.	.
HMW_PAHs	3	1	.	1	.	1	.	.

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Methylnaphthalene, 2-	9	1	.	1	.	1	.	.
Phenanthrene	15	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	12	6.56	0.00	5	36.00	1.94
Acenaphthylene	9	0.96	1.20	5	2.77	1.20
Aldrin	18	0.24	0.00	6	1.30	0.35
Anthracene	14	43.92	9.88	11	300.00	1.40
Antimony	35	609.26	0.00	17	5500.00	150.00
Arsenic	54	8920.00	6220.00	54	52000.00	1800.00
Benzene	3	0.37	0.40	3	0.40	0.30
Benzo(a)anthracene	24	75.10	23.00	19	380.00	7.50
Benzo(a)pyrene	22	92.36	29.00	20	510.00	5.80
Benzo(b)fluoranthene	4	47.66	26.92	4	120.00	16.78
Benzo(ghi)perylene	15	12.57	5.10	8	83.40	5.10
Benzo(k)fluoranthene	6	32.66	18.51	6	120.00	4.20
Biphenyl	11	9.54	0.00	5	53.00	2.24
Bis(2-ethylhexyl)phthalate	5	2492.00	980.00	5	7100.00	81.00
Butyl benzyl phthalate	3	1833.33	1900.00	3	2200.00	1400.00
BHC	20	0.97	0.06	10	7.60	0.12
Cadmium	60	935.08	55.00	31	31000.00	50.00
Chlordane	24	1.32	0.44	15	11.00	0.34
Chromium	63	53484.92	33500.00	61	740000.0	3100.00
Chrysene	24	91.06	31.85	20	420.00	6.90
Copper	62	55320.48	15400.00	58	1400000	670.00
Di-n-butyl phthalate	5	137.00	170.00	5	230.00	30.00
Dibenzo(a,h)anthracene	19	77.86	8.30	11	810.00	7.30
Dichloromethane	5	1.02	0.90	5	1.90	0.60
Dieldrin	20	1.05	0.00	9	9.30	0.20
Diethyl phthalate	3	30.33	27.00	3	45.00	19.00
DDT	105	3.35	0.00	49	46.00	0.10
Ethylbenzene	2	2.60	2.60	2	4.90	0.30
Fluoranthene	26	159.03	61.12	21	690.00	12.00
Fluorene	16	13.62	1.32	8	100.00	2.64
Heptachlor	14	0.13	0.00	2	1.10	0.77
Heptachlor epoxide	20	0.27	0.00	9	1.60	0.12
Hexachlorobenzene	23	0.41	0.10	12	2.00	0.10
HMW_PAHs	3	1033.33	0.00	1	3100.00	3100.00
Indeno(1,2,3-cd)pyrene	11	16.42	0.00	5	84.30	14.05
Lead	60	67163.33	31250.00	58	1100000	6500.00

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
LMW_PAHs	3	0.00	0.00	0	.	.
Mercury	54	422.93	110.00	37	6300.00	14.00
Methylnaphthalene, 2-	9	10.67	0.00	3	65.00	14.00
Mirex/Dechlorane	19	1.00	0.18	10	6.00	0.18
Naphthalene	19	58.65	22.00	17	190.00	3.70
Nickel	44	12990.45	11000.00	35	76000.00	3180.00
Phenanthrene	21	99.40	57.00	20	430.00	5.80
Phenol	1	49.00	49.00	1	49.00	49.00
Polychlorinated biphenyls	19	29.01	4.97	14	240.00	0.17
Pyrene	25	196.04	67.00	24	1300.00	11.00
Silver	60	1555.04	7.50	30	50000.00	15.00
Tetrachloromethane	2	1.30	1.30	2	2.30	0.30
Toluene	3	40.83	1.90	3	120.00	0.60
Trichloroethane, 1,1,1-	1	0.40	0.40	1	0.40	0.40
Trichloroethene	2	0.80	0.80	2	1.10	0.50
Trichloromethane/Chloroform	1	0.50	0.50	1	0.50	0.50
Zinc	66	105939.4	49550.00	66	1900000	4400.00

Biotoxicity Data

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
Monitoring Program: EMAP-VA Province							
40.6158	73.8875	91-08-03	Ampelisca Abdita	S	25.00	16.00	no
40.7408	72.9978	90-08-19	Ampelisca Abdita	S	9.60	2.80	no
40.9567	72.5033	90-08-08	Ampelisca Abdita	S	37.20	6.80	Yes
41.0000	72.3833	91-08-15	Ampelisca Abdita	S	14.00	10.70	no
41.0000	72.4117	90-07-30	Ampelisca Abdita	S	53.00	9.00	Yes
41.0617	72.0017	90-09-11	Ampelisca Abdita	S	7.00	6.00	no
41.1315	71.9855	91-09-05	Ampelisca Abdita	S	15.00	4.00	no