

Watershed Summary Information

Accounting Unit Name:	Mass.-Rhode Island Coastal
State(s):	RI MA
Political Boundaries:	Bristol, Bristol, Providence, Kent, Washington, Plymouth, Newport
Major Waterways:	Seekonk R Taunton R Palmer R Pawtuxet R Nemasket R
Number of Stations in Watershed:	Tier1 - 28 Tier2 - 20 Tier3 - .



Figure 5. Watershed Location Map

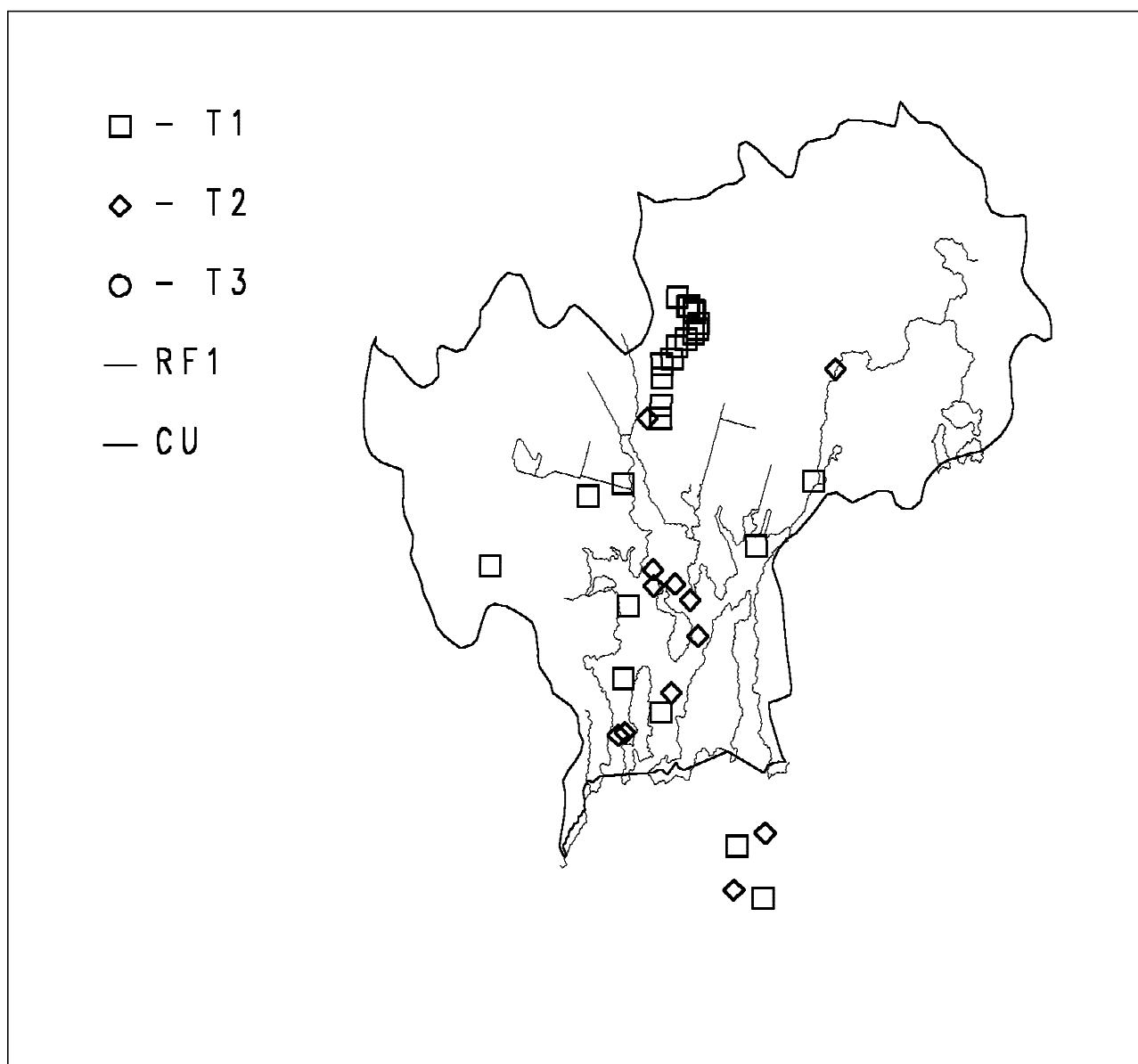


Figure 6. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **COSED** Agency: **NS&T**
 Monitoring Program: **NOAA/National Status and Trends**
 Num. of Stations: 17 Date Range: 1984-89

Source: **EMAP-VA** Agency: **EMAPVA**
 Monitoring Program: **EMAP-VA Province**
 Num. of Stations: 4 Date Range: 1990-91

Source: **MASSBAY** Agency: **USACOE-dredge**
 Monitoring Program: **MacDonald, 1991**
 Num. of Stations: 3 Date Range: 1986

Source: **SEACOE** Agency: **NOAA84**
Monitoring Program: **Benthic Surveillance 1984**
Num. of Stations: 4 Date Range: 1985

Source: **STORET** Agency: **1112500**
Monitoring Program: **USEPA Region 1 Data**
Num. of Stations: 18 Date Range: 1980-81

Source: **STORET** Agency: **112WRD**
Monitoring Program: **US Geological Survey Data**
Num. of Stations: 2 Date Range: 1980-91

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
Copper	48	45	.	45	.	45	.	.
Lead	48	45	.	45	.	45	.	.
Nickel	48	40	.	40	.	40	.	.
Chromium	48	36	10	26	10	26	.	.
Zinc	48	30	.	30	.	30	.	.
Silver	43	28	16	12	16	12	.	.
Mercury	34	28	8	20	8	20	.	.
Benzo(a)pyrene	24	24	.	24	.	18	.	24
Cadmium	47	23	.	23	.	23	.	.
Polychlorinated biphenyls	23	21	4	17	4	15	.	21
Arsenic	26	21	.	21	.	21	.	.
DDT	27	20	1	19	1	19	.	2
Benzo(a)anthracene	23	20	.	20	.	20	.	4
Dibenzo(a,h)anthracene	20	19	2	17	2	17	.	16
Pyrene	24	19	.	19	.	19	.	.
Chrysene	24	16	.	16	.	16	.	.
Anthracene	17	13	.	13	.	13	.	.
Naphthalene	23	13	.	13	.	13	.	.
Dieldrin	23	10	.	10	.	2	.	10
Fluorene	21	10	.	10	.	10	.	.
BHC	19	8	2	6	2	6	.	.
Aldrin	18	6	.	6	.	.	.	6
Acenaphthylene	9	5	.	5	.	5	.	.
Chlordane	27	5	.	5	.	5	.	2
Methylnaphthalene, 2-	6	5	.	5	.	5	.	.
HMW_PAHs	4	2	.	2	.	2	.	.
Indeno(1,2,3-cd)pyrene	11	2	.	2	.	.	.	2
Acenaphthene	18	1	.	1	.	1	.	.
Endosulfan mixed isomers	2	1	.	1	.	1	.	.
Fluoranthene	24	1	.	1	.	1	.	.

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
LMW_PAHs	4	1	.	1	.	1	.	.
Phenanthrene	24	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	22	12.70	7.58	20	53.00	2.50
Acenaphthylene	10	19.36	17.00	10	54.34	2.00
Aldrin	42	1.23	0.00	17	8.72	0.16
Anthracene	31	99.21	73.00	30	326.78	13.00
Antimony	35	1069.00	810.00	32	2500.00	371.00
Arsenic	42	10733.43	8660.00	42	38000.00	4790.00
Benzo(a)anthracene	38	173.25	136.00	38	546.00	2.90
Benzo(a)pyrene	39	174.67	118.54	39	700.00	6.55
Benzo(b)fluoranthene	4	117.99	115.08	4	226.78	15.00
Benzo(ghi)perylene	10	173.10	174.01	10	409.00	6.45
Benzo(k)fluoranthene	5	43.35	13.00	5	114.51	6.30
Biphenyl	22	20.38	15.50	22	78.90	1.90
BHC	40	0.75	0.00	15	10.21	0.14
Cadmium	77	34458.86	637.00	71	277000.0	60.00
Chlordane	56	2.35	1.20	49	16.00	0.27
Chromium	78	401558.6	92700.00	76	5844000	8000.00
Chrysene	39	175.40	142.93	39	662.00	6.45
Copper	77	966502.4	88000.00	77	7592000	10000.00
Dibenzo(a,h)anthracene	33	72.03	58.00	30	330.00	6.90
Dieldrin	56	1.67	0.94	40	22.00	0.20
DDT	191	2.37	1.00	139	31.00	0.20
Endosulfan mixed isomers	20	0.66	0.00	2	11.00	2.20
Endrin	20	0.38	0.00	1	7.50	7.50
Fluoranthene	39	287.55	220.00	39	980.00	12.00
Fluorene	32	22.44	16.16	31	69.70	1.70
Heptachlor	40	0.40	0.00	16	5.01	0.17
Heptachlor epoxide	31	0.16	0.00	5	2.00	0.20
Hexachlorobenzene	27	0.96	0.52	25	3.00	0.09
HMW_PAHs	4	700.00	500.00	2	1800.00	1000.00
Indeno(1,2,3-cd)pyrene	13	154.09	85.00	12	485.00	7.30
Lead	78	180045.7	72650.00	78	999000.0	10000.00
LMW_PAHs	4	177.50	0.00	1	710.00	710.00
Mercury	49	475.71	220.00	46	3700.00	23.00
Methoxychlor	17	0.00	0.00	0	.	.
Methylnaphthalene, 2-	6	37.90	21.00	6	93.60	12.00
Mirex/Dechlorane	38	0.32	0.00	15	2.00	0.14

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Naphthalene	34	51.08	41.00	31	133.88	2.25
Nickel	78	648724.0	28161.50	73	22810000	6700.00
Phenanthrene	39	162.80	110.00	39	930.00	6.10
Polychlorinated biphenyls	38	68.64	38.29	38	320.00	0.56
Pyrene	39	324.11	260.00	39	1200.00	11.00
Silver	68	20195.46	2000.00	62	257000.0	150.00
Toxaphene	20	0.00	0.00	0	.	.
Zinc	78	706010.5	147000.0	78	20820000	18000.00

Biotoxicity Data

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
Monitoring Program: EMAP-VA Province							
41.4983	71.4023	90-09-24	Ampelisca Abdita	S	6.00	6.00	no
41.6982	71.2057	91-08-11	Ampelisca Abdita	S	24.00	11.00	no
41.7667	71.1232	91-08-10	Ampelisca Abdita	S	40.00	11.00	Yes