

Watershed Summary Information

Accounting Unit Name: Lower Mississippi-New Orleans

State(s): LA

Political Boundaries: Plaquemines, St Charles, Lafourche, St Bernard, Jefferson

Major Waterways: Mississippi R, Se Pass
Mississippi R, Pass Loutr
Mississippi R, Sw Pass
Mississippi R, Grand Pass
Mississippi R

Number of Stations in Watershed: Tier1 - 16
Tier2 - 34
Tier3 - 1

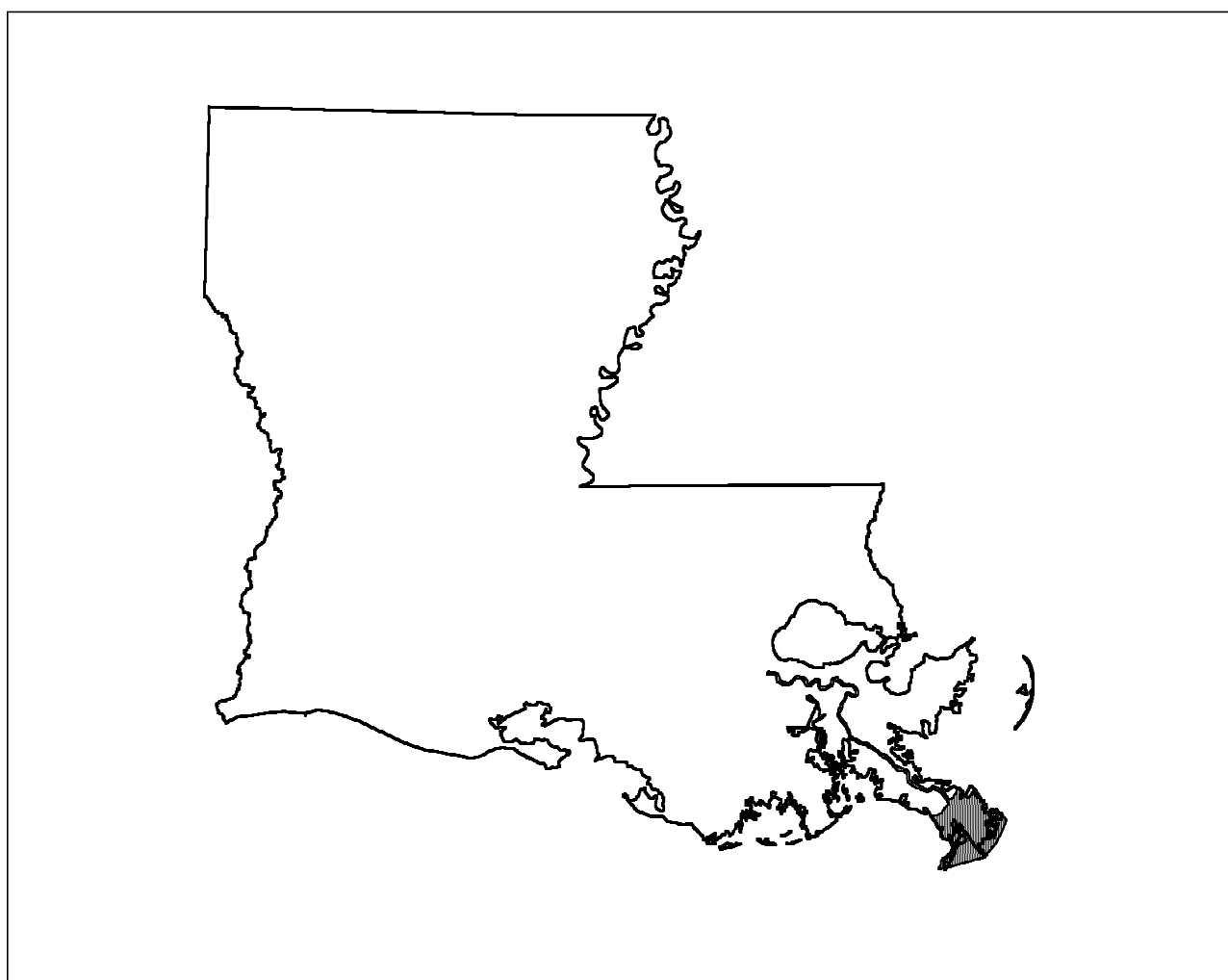


Figure 149. Watershed Location Map

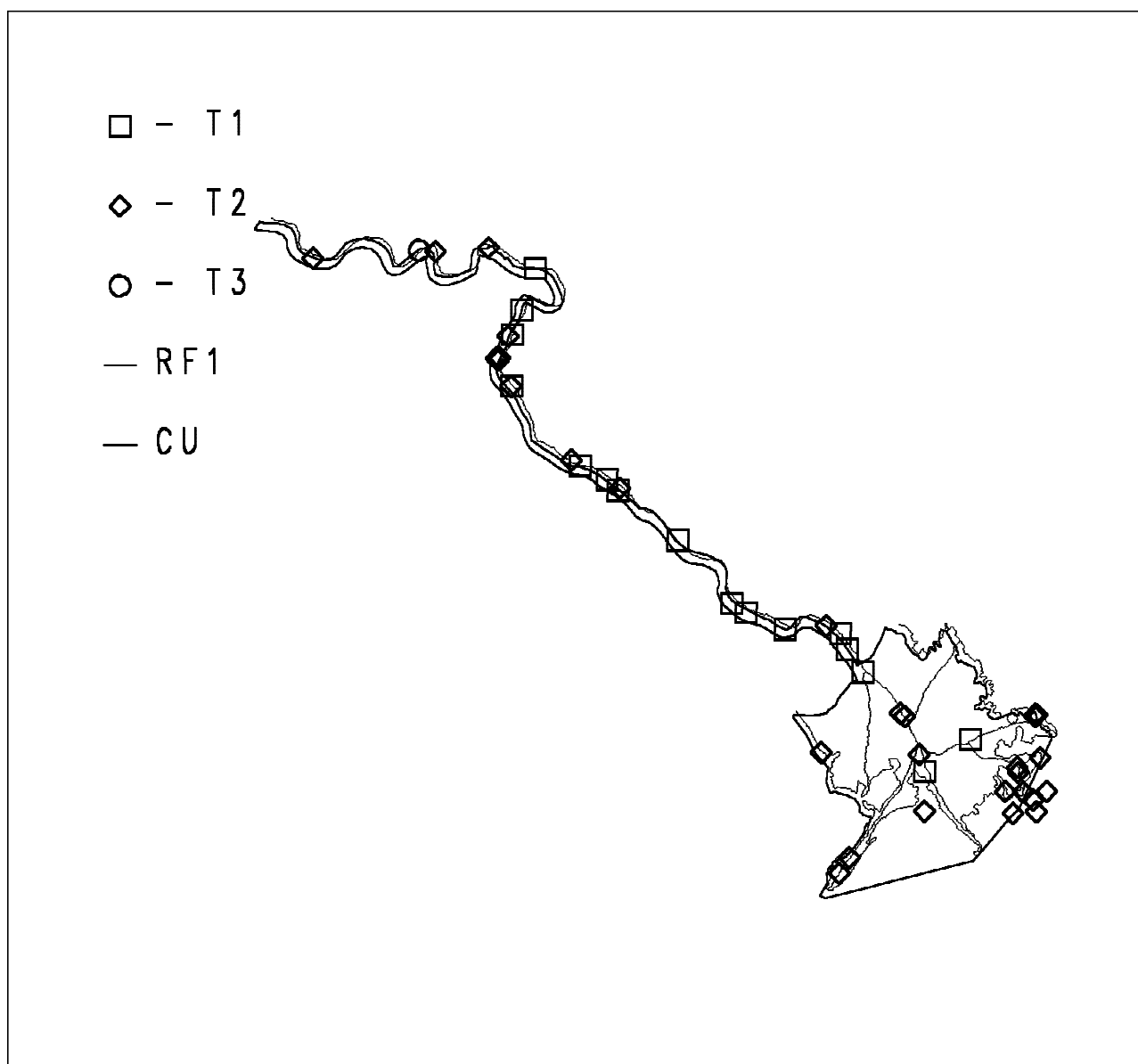


Figure 150. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **COSED** Agency: **NS&T**
 Monitoring Program: **NOAA/National Status and Trends**
 Num. of Stations: 10 Date Range: 1984-88

Source: **EMAP-LA** Agency: **EMAPLA**
 Monitoring Program: **EMAP-LA Province**
 Num. of Stations: 31 Date Range: 1991-92

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

Source: **STORET** Agency: **11POX06**
Monitoring Program: **USEPA Region 6 Data**
Num. of Stations: 2 Date Range: 1980-81

Source: **STORET** Agency: **112WRD**
Monitoring Program: **US Geological Survey Data**
Num. of Stations: 5 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
Nickel	49	42	.	42	.	42	.	.
Polychlorinated biphenyls	47	39	9	30	.	7	9	30
DDT	50	38	.	38	.	38	.	1
Benzo(a)pyrene	48	33	.	33	.	3	.	33
Chromium	51	30	.	30	.	30	.	.
Arsenic	51	28	.	28	.	28	.	.
Dibenzo(a,h)anthracene	48	25	.	25	.	25	.	6
SEM_est	29	24	.	24	.	24	.	.
BHC	45	20	1	19	1	19	.	.
Methylnaphthalene, 2-	34	20	.	20	.	20	.	.
HMW_PAHs	34	19	.	19	.	19	.	.
LMW_PAHs	34	18	3	15	3	15	.	.
Copper	51	16	.	16	.	16	.	.
Fluorene	47	15	.	15	.	15	.	.
Naphthalene	48	15	.	15	.	15	.	.
Mercury	50	14	3	11	3	11	.	.
Cadmium	51	9	.	9	.	9	.	.
Acenaphthylene	43	8	.	8	.	8	.	.
Dieldrin	48	8	.	8	.	1	.	7
Benzo(a)anthracene	49	7	.	7	.	7	.	.
Zinc	51	7	.	7	.	7	.	.
Chlordane	47	6	.	6	.	6	.	3
Chrysene	49	6	.	6	.	6	.	.
Lead	51	6	.	6	.	6	.	.
Pyrene	49	4	.	4	.	4	.	.
Mirex/Dechlorane	36	2	.	2	.	.	.	2
Bis(2-ethylhexyl)phthalate	5	1	1	.	1	.	.	1
Aldrin	40	1	.	1	.	.	.	1
Anthracene	42	1	.	1	.	1	.	.
Benzo(b)fluoranthene	43	1	.	1	.	.	.	1
Butyl benzyl phthalate	5	1	.	1	.	1	.	.
Heptachlor epoxide	45	1	.	1	.	.	.	1
Hexachlorobenzene	48	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	48	3.97	0.00	20	43.15	1.48
Acenaphthylene	46	2.81	0.00	17	22.00	1.13
Acrylonitrile	3	0.00	0.00	0	.	.
Aldrin	65	0.03	0.00	3	0.95	0.10
Anthracene	45	15.49	7.63	35	251.09	2.16
Anthracene&Phenanthrene	3	0.00	0.00	0	.	.
Antimony	38	612.29	580.00	32	2100.00	280.00
Arsenic	104	4279.46	2450.00	60	15900.00	1000.00
Benzene	3	0.00	0.00	0	.	.
Benzo(a)anthracene	54	37.04	27.13	44	224.21	1.58
Benzo(a)pyrene	53	35.77	28.00	43	307.84	1.54
Benzo(b)fluoranthene	45	36.20	24.69	35	246.40	2.14
Benzo(ghi)perylene	46	35.21	23.51	37	252.28	0.63
Benzo(k)fluoranthene	44	26.41	21.58	34	137.32	2.46
Biphenyl	38	15.00	7.52	34	49.84	2.84
Bis(2-ethylhexyl)phthalate	7	2142.86	0.00	1	15000.00	15000.00
Bromophenyl phenyl ether, 4-	7	0.00	0.00	0	.	.
Butyl benzyl phthalate	7	185.71	0.00	1	1300.00	1300.00
BHC	191	0.20	0.00	49	3.40	0.04
Cadmium	109	689.62	550.00	96	4000.00	100.00
Chlordane	130	0.82	0.33	86	7.00	0.01
Chlorobenzene	3	0.00	0.00	0	.	.
Chromium	109	33246.52	23869.00	107	110000.0	1000.00
Chrysene	54	49.09	34.21	46	294.73	0.79
Copper	109	10747.33	10000.00	91	35174.00	1000.00
Di-n-butyl phthalate	7	0.00	0.00	0	.	.
Di-n-octyl phthalate	7	0.00	0.00	0	.	.
Diazinon/Spectracide	28	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	54	10.31	5.57	36	105.68	3.27
Dibromochloromethane	3	0.00	0.00	0	.	.
Dichlorobenzene, 1,2-	6	0.00	0.00	0	.	.
Dichlorobenzene, 1,3-	7	0.00	0.00	0	.	.
Dichlorobenzene, 1,4-	7	0.00	0.00	0	.	.
Dichloroethane 1,1-	3	0.00	0.00	0	.	.
Dichloroethane 1,2-	3	0.00	0.00	0	.	.
Dichloroethene, trans-1,2-	3	0.00	0.00	0	.	.
Dichloromethane	3	0.00	0.00	0	.	.
Dichloropropane, 1,2-	3	0.00	0.00	0	.	.
Dieldrin	72	0.56	0.40	50	4.60	0.16
Diethyl phthalate	7	0.00	0.00	0	.	.
Dimethyl phthalate	7	0.00	0.00	0	.	.
Dimethylphenol, 2,4-	7	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Dioxins	5	0.00	0.00	0	.	.
DDT	373	1.07	0.19	206	23.24	0.01
Endosulfan mixed isomers	28	0.00	0.00	0	.	.
Endosulfan, alpha-	33	0.00	0.00	0	.	.
Endosulfan, beta-	33	0.00	0.00	0	.	.
Endrin	61	0.02	0.00	4	0.31	0.26
Ethion/Bladen	28	0.00	0.00	0	.	.
Ethylbenzene	3	0.00	0.00	0	.	.
Fluoranthene	55	53.50	49.23	48	352.36	0.73
Fluorene	51	16.36	6.27	34	79.02	2.78
Heptachlor	69	0.01	0.00	4	0.53	0.06
Heptachlor epoxide	70	0.03	0.00	7	0.83	0.01
Hexachlorobenzene	53	2.20	0.00	26	78.35	0.02
Hexachlorobutadiene	7	0.00	0.00	0	.	.
Hexachloroethane	7	0.00	0.00	0	.	.
HMW_PAHs	34	991.48	814.39	32	6918.66	8.01
Indeno(1,2,3-cd)pyrene	45	25.16	20.90	35	165.00	1.78
Isophorone	7	0.00	0.00	0	.	.
Lead	109	13420.23	14600.00	72	50000.00	6500.00
LMW_PAHs	34	1087.65	357.35	31	3953.77	8.79
Malathion	29	0.00	0.00	0	.	.
Mercury	103	223.52	60.00	78	1800.00	28.00
Methoxychlor	28	0.00	0.00	0	.	.
Methylnaphthalene, 2-	34	55.37	23.14	33	326.93	1.19
Mirex/Dechlorane	60	0.00	0.00	1	0.00	0.00
Naphthalene	54	31.85	16.83	45	296.13	1.08
Nickel	69	22002.90	22000.00	61	60000.00	6800.00
Nitrosodiphenylamine, N-	7	0.00	0.00	0	.	.
Pentachlorophenol	7	0.00	0.00	0	.	.
Phenanthrene	53	67.75	39.00	49	635.96	0.94
Phenol	7	0.00	0.00	0	.	.
Polychlorinated biphenyls	92	6.97	3.00	55	68.00	0.19
Pyrene	55	62.64	55.50	45	218.32	13.80
Silver	55	156.44	156.00	52	282.00	40.00
SEM_est	29	1.92	1.86	29	4.01	0.87
Tetrachloroethane, 1,1,2,2-	3	0.00	0.00	0	.	.
Tetrachloroethene	3	0.00	0.00	0	.	.
Tetrachloromethane	3	0.00	0.00	0	.	.
Toluene	3	0.00	0.00	0	.	.
Toxaphene	62	0.00	0.00	0	.	.
Tribromomethane/Bromoform	3	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	7	0.00	0.00	0	.	.
Trichloroethane, 1,1,1-	3	0.00	0.00	0	.	.
Trichloroethane, 1,1,2-	3	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Trichloroethene	3	0.00	0.00	0	.	.
Trichlorofluoromethane	3	0.00	0.00	0	.	.
Trichloromethane/Chloroform	3	0.00	0.00	0	.	.
Zinc	109	54997.20	55000.00	108	165000.0	5000.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	11	1.97	0.00	4	11.50	1.72
Arsenic	11	0.41	0.00	2	2.50	2.00
BHC	11	0.00	0.00	0	.	.
Cadmium	11	18.45	0.00	5	200.00	0.30
Chlordane	11	5.97	5.00	7	16.20	1.97
Chromium	11	9.60	0.50	8	100.00	0.30
Copper	11	1.56	0.00	3	8.70	3.70
Dieldrin	11	15.25	3.20	7	121.80	1.60
DDT	68	25.16	7.55	48	266.40	1.50
Endosulfan, alpha-	11	2.04	0.00	3	12.70	2.60
Endrin	11	8.23	2.95	6	57.40	2.95
Heptachlor epoxide	11	13.02	2.65	7	118.60	1.60
Hexachlorobenzene	11	2.79	0.00	5	11.60	0.90
Lead	11	0.15	0.10	7	0.55	0.10
Mercury	10	6.75	0.59	9	57.00	0.07
Mirex/Dechlorane	11	31.10	6.70	11	126.55	2.20
Nickel	11	1.12	1.40	8	2.50	1.00
Polychlorinated biphenyls	11	137.04	143.18	11	367.70	1.80
Selenium	11	0.70	0.00	4	2.70	1.00
Silver	11	0.30	0.19	7	1.23	0.17
Tin	11	13.64	1.57	10	120.00	0.23
Toxaphene	11	0.00	0.00	0	.	.
Zinc	11	2158.39	21.90	10	23500.00	14.20

Biotoxicity Data

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
Monitoring Program: EMAP-LA Province							
28.9510	89.3952	91-07-27	Ampelisca Abdita	S	19.01	11.00	no
28.9762	89.3768	92-07-08	Ampelisca Abdita	S	6.98	3.00	no
29.0457	89.0787	91-07-27	Ampelisca Abdita	S	16.96	11.00	no
29.0503	89.2397	92-07-08	Ampelisca Abdita	S	6.88	3.00	no
29.1135	89.2395	92-07-08	Ampelisca Abdita	S	22.98	3.00	no

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
29.1415	89.2493	91-07-28	Ampelisca Abdita	S	27.02	11.00	no
29.1648	89.1555	92-07-08	Ampelisca Abdita	S	10.95	3.00	no
29.2018	89.0372	92-07-08	Ampelisca Abdita	S	9.01	6.00	no
29.2030	89.2750	92-07-09	Ampelisca Abdita	S	15.03	3.00	no
29.2043	89.0330	91-07-28	Ampelisca Abdita	S	22.98	3.00	no
29.2045	89.0363	92-08-15	Ampelisca Abdita	S	11.01	4.00	no
29.2075	89.2828	91-07-30	Ampelisca Abdita	S	5.00	0.00	no
29.3112	89.3790	92-07-09	Ampelisca Abdita	S	29.03	6.00	Yes
29.3362	89.3913	92-07-09	Ampelisca Abdita	S	12.51	8.00	no
29.3433	89.4930	91-07-31	Ampelisca Abdita	S	33.97	13.00	Yes
29.3490	89.4178	91-07-30	Ampelisca Abdita	S	58.99	7.00	Yes
29.3705	89.5645	92-07-10	Ampelisca Abdita	S	27.04	5.00	Yes
29.3853	89.5903	92-07-10	Ampelisca Abdita	S	27.04	5.00	Yes
29.4870	89.6902	92-07-10	Ampelisca Abdita	S	12.03	5.00	no
29.5845	89.8203	91-07-29	Ampelisca Abdita	S	41.04	7.00	Yes
29.6067	89.8692	92-07-10	Ampelisca Abdita	S	16.97	3.00	no
29.6160	89.8862	92-07-11	Ampelisca Abdita	S	31.99	2.00	Yes
29.7342	89.9973	92-07-10	Ampelisca Abdita	S	41.02	3.00	Yes
29.7348	89.9962	92-08-15	Ampelisca Abdita	S	7.00	2.00	no
29.7760	90.0210	92-08-15	Ampelisca Abdita	S	31.98	5.00	Yes
29.7795	90.0245	91-07-31	Ampelisca Abdita	S	32.97	2.00	Yes
29.7800	90.0180	92-07-11	Ampelisca Abdita	S	18.02	5.00	no
29.8147	90.0025	92-08-15	Ampelisca Abdita	S	11.00	0.00	no
29.8172	89.9947	91-07-31	Ampelisca Abdita	S	21.96	13.00	no
29.9238	89.9545	92-08-16	Ampelisca Abdita	S	18.97	6.00	no
29.9568	90.0405	91-07-25	Ampelisca Abdita	S	69.04	14.00	Yes