

## Watershed Summary Information

**Accounting Unit Name:** Ventura-San Gabriel Coastal

**State(s):** CA

**Political Boundaries:** Los Angeles, Ventura

**Major Waterways:** Petrero Valley Cr  
Big Sycamore Canyon  
Mandeville Canyon  
Zuma Canyon

**Number of Stations in Watershed:** Tier1 - 79  
Tier2 - 31  
Tier3 - 22



Figure 179. Watershed Location Map

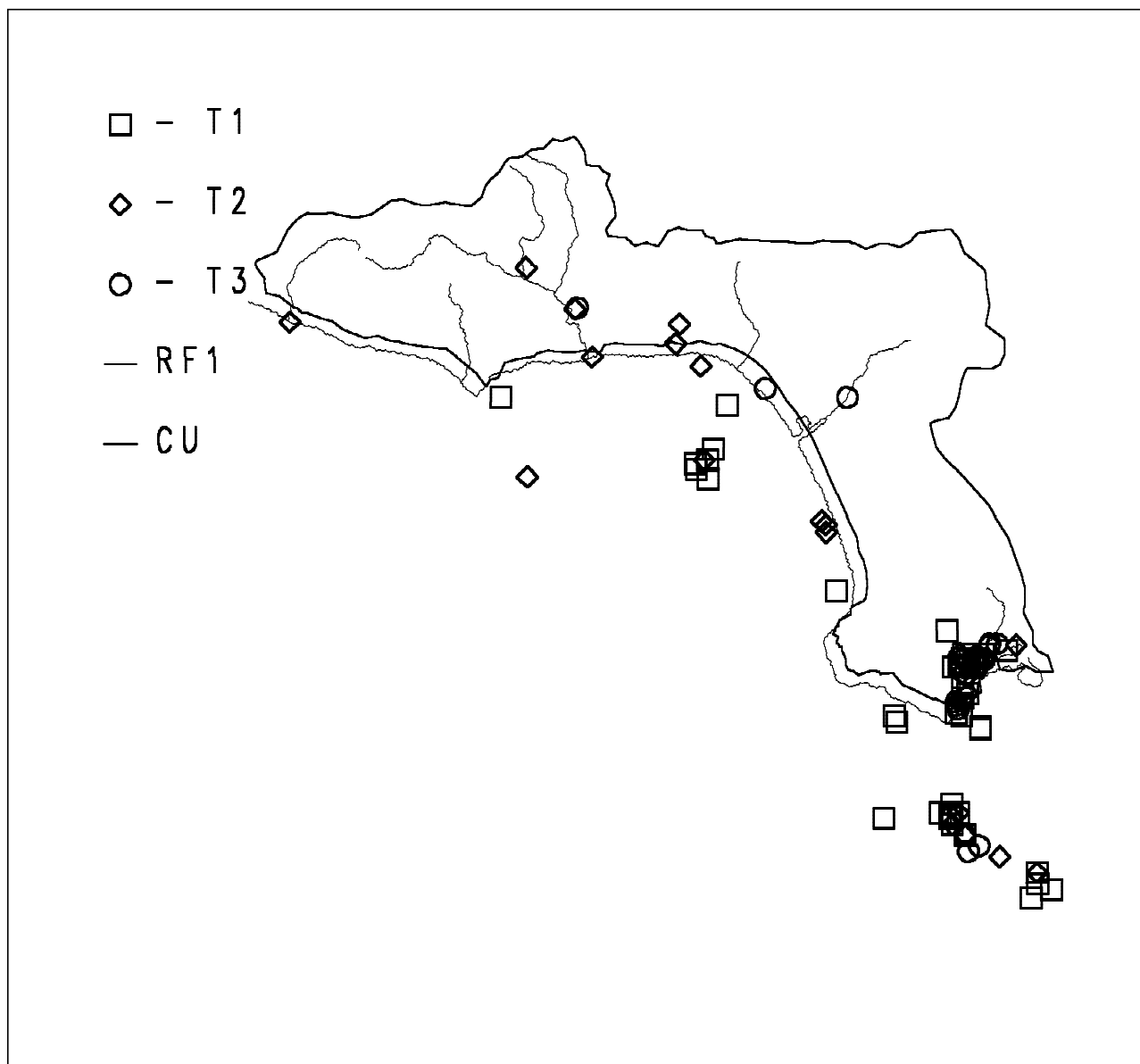


Figure 180. Major Waterways and Location of Sampling Stations

## Data Source(s) Used in Evaluation

Source: **COSED** Agency: **NS&T**

Monitoring Program: **NOAA/National Status and Trends**

Num. of Stations: 25 Date Range: 1984-90

Source: **DMATS** Agency: **R9**

Monitoring Program: **EPA Region 9 Dredged Material Program**

Num. of Stations: 62 Date Range: 1980-89

Source: **DMATS** Agency: **09**

Monitoring Program: **EPA Region 9 Dredged Material Program**

Num. of Stations: 4 Date Range: 1989-91

Source: **ODES** Agency: **L2**  
Monitoring Program: **LA2 Ocean Dumping**  
Num. of Stations: 28 Date Range: 1983-84

Source: **SEACOE** Agency: **SCCWRP87**  
Monitoring Program: **Toxicity of sediments from Southern CA**  
Num. of Stations: 3 Date Range: 1987

Source: **STORET** Agency: **11BIOACC**  
Monitoring Program: **USEPA National Bioaccumulation Study**  
Num. of Stations: 1 Date Range: 1987

Source: **STORET** Agency: **112WRD**  
Monitoring Program: **US Geological Survey Data**  
Num. of Stations: 7 Date Range: 1981-88

Source: **STORET** Agency: **21CALAFD**  
Monitoring Program: **Los Angeles County Flood Control District Surface And Ground Waters Data**  
Num. of Stations: 2 Date Range: 1988-89

## 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
DDT	93	84	66	18	65	19	2	77
Cadmium	123	79	.	79	.	79	.	.
Copper	123	77	.	77	.	77	.	.
Lead	123	59	.	59	.	56	.	4
Polychlorinated biphenyls	117	56	22	34	19	27	5	51
Mercury	121	48	15	33	15	33	.	.
Chromium	74	40	2	38	2	38	.	.
Nickel	50	31	.	31	.	31	.	.
Zinc	81	28	.	28	.	28	.	.
Arsenic	78	27	.	27	.	25	.	2
Silver	47	21	5	16	5	16	.	.
Benzo(a)pyrene	18	15	.	15	.	12	.	15
Chlordane	29	15	.	15	.	14	.	6
Pyrene	29	11	3	8	3	8	.	.
Chrysene	25	10	2	8	2	8	.	2
Dibenzo(a,h)anthracene	12	9	.	9	.	9	.	6
Dieldrin	19	9	.	9	.	1	.	9
Benzo(a)anthracene	22	8	.	8	.	7	.	6
BHC	49	7	.	7	.	7	.	.
Naphthalene	21	7	.	7	.	7	.	.
Anthracene	17	5	2	3	2	3	.	.
Acenaphthylene	11	4	1	3	1	3	.	.
Fluoranthene	31	3	2	1	2	1	.	1

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Phenanthrene	29	3	2	1	2	1	.	.
Bis(2-ethylhexyl)phthalate	3	3	.	3	.	3	.	.
Fluorene	16	3	.	3	.	3	.	.
Methylnaphthalene, 2-	3	2	1	1	1	1	.	.
Benzo(b)fluoranthene	5	2	.	2	.	.	.	2
LMW_PAHs	3	2	.	2	.	2	.	.
Dioxins	1	1	1	.	.	.	1	.
Aldrin	40	1	.	1	.	.	.	1
Indeno(1,2,3-cd)pyrene	10	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	11	2.31	0.00	5	12.50	0.31
Acenaphthylene	15	7747.75	1.84	11	116000.0	0.65
Aldrin	159	0.02	0.00	6	1.20	0.10
Anthracene	26	5906.24	9.50	23	86000.00	1.50
Antimony	24	474.58	455.00	24	1100.00	170.00
Arsenic	194	3970.73	2386.00	194	19000.00	30.00
Benzo(a)anthracene	34	56.26	12.50	32	410.00	2.00
Benzo(a)pyrene	31	141.43	71.00	30	600.00	4.00
Benzo(b)fluoranthene	9	200.97	13.08	9	870.00	8.12
Benzo(ghi)perylene	18	46.59	8.41	15	360.00	4.38
Benzo(k)fluoranthene	11	21.57	5.23	8	120.00	3.84
Biphenyl	15	48.06	8.00	15	250.00	0.85
Bis(2-ethylhexyl)phthalate	3	308.00	350.00	3	354.00	220.00
Butyl benzyl phthalate	1	0.00	0.00	0	.	.
BHC	429	0.02	0.00	20	1.70	0.03
Cadmium	331	1737.99	1170.00	326	28600.00	50.00
Chlordane	54	2.07	1.00	41	18.00	0.35
Chromium	189	86503.86	37200.00	189	5770000	12720.00
Chrysene	39	10531.81	37.00	38	244500.0	3.00
Copper	330	114721.3	37950.00	329	5500000	4600.00
Cresol, m-	3	10.81	0.25	3	32.00	0.17
Cresol, o	3	0.61	0.25	3	1.40	0.17
Di-n-butyl phthalate	1	0.00	0.00	0	.	.
Di-n-octyl phthalate	1	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	20	61.73	53.50	17	240.00	0.80
Dieldrin	41	1.56	0.10	26	26.00	0.10
Diethyl phthalate	1	0.00	0.00	0	.	.
Dimethyl phthalate	1	0.00	0.00	0	.	.
Dimethylphenol, 2,4-	3	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
DDT	711	229.37	11.27	619	77000.00	0.10
Endosulfan mixed isomers	26	0.00	0.00	0	.	.
Endosulfan, alpha-	2	0.00	0.00	0	.	.
Endosulfan, beta-	2	0.00	0.00	0	.	.
Endrin	28	0.00	0.00	0	.	.
Fluoranthene	48	14644.10	39.75	45	378500.0	5.00
Fluorene	22	10.45	3.65	18	67.00	0.69
Heptachlor	34	0.08	0.00	8	0.90	0.08
Heptachlor epoxide	156	0.03	0.00	3	3.00	0.10
Hexachlorobenzene	12	0.52	0.48	12	1.10	0.10
Hexachlorobutadiene	3	0.83	0.00	1	2.50	2.50
HMW_PAHs	3	0.00	0.00	0	.	.
Indeno(1,2,3-cd)pyrene	19	13.64	3.78	12	104.50	0.60
Lead	330	61125.52	27400.00	326	740000.0	3000.00
LMW_PAHs	3	620.00	450.00	3	1100.00	310.00
Mercury	323	839.75	154.50	318	60000.00	3.40
Methoxychlor	23	0.00	0.00	0	.	.
Methylnaphthalene, 2-	3	384.00	37.00	3	1100.00	15.00
Mirex/Dechlorane	31	0.11	0.00	6	1.90	0.05
Naphthalene	32	34.13	11.50	28	450.00	1.50
Nickel	72	28513.06	24050.00	70	166200.0	4950.00
Pentachlorophenol	6	1.83	0.00	1	11.00	11.00
Phenanthrene	44	8401.88	26.50	41	235000.0	5.00
Phenol	3	0.00	0.00	0	.	.
Polychlorinated biphenyls	588	1306.45	15.00	371	732500.0	0.20
Pyrene	45	8072.35	60.00	44	211000.0	3.50
Silver	61	1211.66	680.00	58	9120.00	70.00
Toxaphene	28	0.00	0.00	0	.	.
Zinc	200	107796.1	78460.00	200	1016000	2950.00

## Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	4	0.00	0.00	0	.	.
Arsenic	4	249.12	151.50	4	662.00	31.50
Biphenyl	1	0.70	0.70	1	0.70	0.70
BHC	14	0.40	0.00	1	5.59	5.59
Cadmium	4	536.25	535.83	4	880.00	193.33
Chlordane	2	37.50	37.50	2	43.40	31.60
Chlorpyrifos/Dursban	1	5.12	5.12	1	5.12	5.12
Chromium	4	410.00	403.33	4	590.00	243.33
Copper	4	1910.00	1603.33	4	3890.00	543.33

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Dicofol/Kelthane	1	0.00	0.00	0	.	.
Dieldrin	1	0.00	0.00	0	.	.
Dioxins	2	0.00	0.00	2	0.00	0.00
DDT	12	152.00	24.67	11	785.00	1.67
Endrin	1	0.00	0.00	0	.	.
Heptachlor	5	0.00	0.00	0	.	.
Heptachlor epoxide	5	0.00	0.00	0	.	.
Hexachlorobenzene	1	0.00	0.00	0	.	.
Hexachlorobutadiene	1	0.00	0.00	0	.	.
Isopropalin	1	0.00	0.00	0	.	.
Lead	4	2241.25	1786.67	4	3955.00	1436.67
Mercury	5	200.74	153.27	4	526.20	123.00
Methoxychlor	1	0.00	0.00	0	.	.
Mirex/Dechlorane	1	0.00	0.00	0	.	.
Pentachlorobenzene	1	1.08	1.08	1	1.08	1.08
Pentachloronitrobenzene/Quin	1	0.00	0.00	0	.	.
Polychlorinated biphenyls	17	34.25	18.33	9	199.60	18.33
Tetrachlorobenzene, 1,2,4,5-	1	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	1	0.35	0.35	1	0.35	0.35
Trifluralin/Treflan	1	0.00	0.00	0	.	.
Zinc	4	18629.17	17216.67	4	27050.00	13033.33

## Biotoxicity Data

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
Monitoring Program: EPA Region 9 Dredged Material Program							
33.7167	118.2806	80-06-01	Macoma Nasuta	S	1.00	0.00	no
			Neanthes Arenacedonta	S	21.00	9.00	no
33.7200	118.2819	80-06-01	Macoma Nasuta	S	1.00	0.00	no
			Neanthes Arenacedonta	S	16.00	9.00	no
33.7231	118.2828	80-06-01	Macoma Nasuta	S	4.00	0.00	no
			Neanthes Arenacedonta	S	24.00	9.00	no
33.7267	118.2758	81-06-01	Macoma Nasuta	S	2.00	0.00	no
			Neanthes Arenacedonta	S	13.00	18.00	no
33.7306	118.2700	86-01-15	Macoma Nasuta	S	1.00	2.00	no
			Neanthes Arenacedonta	S	54.00	11.00	Yes
33.7378	118.2756	81-06-01	Macoma Nasuta	S	1.00	0.00	no
			Neanthes Arenacedonta	S	18.00	9.00	no
33.7389	118.2756	81-06-01	Macoma Nasuta	S	1.00	0.00	no
			Neanthes Arenacedonta	S	10.00	9.00	no
33.7403	118.2756	81-06-01	Macoma Nasuta	S	0.00	0.00	no
			Neanthes Arenacedonta	S	11.00	9.00	no

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
33.7486	118.2772	81-09-10	Macoma Nasuta	S	1.00	1.00	no
			Neanthes Arenacedonta	S	19.00	12.00	no
33.7542	118.2644	81-10-01	Macoma Nasuta	S	1.00	1.00	no
			Neanthes Arenacedonta	S	16.00	14.00	no
33.7547	118.2639	81-10-01	Macoma Nasuta	S	1.00	1.00	no
			Neanthes Arenacedonta	S	13.00	14.00	no
33.7547	118.2644	85-12-15	Macoma Nasuta	S	0.00	1.00	no
			Neanthes Arenacedonta	S	21.00	8.00	no
33.7547	118.2861	82-01-15	Macoma Nasuta	S	2.00	0.00	no
			Neanthes Arenacedonta	S	13.00	13.00	no
33.7550	118.2772	81-06-01	Macoma Nasuta	S	2.00	0.00	no
			Neanthes Arenacedonta	S	16.00	18.00	no
33.7556	118.2722	82-01-15	Macoma Nasuta	S	0.00	0.00	no
33.7569	118.2625	85-12-15	Macoma Nasuta	S	1.00	1.00	no
			Neanthes Arenacedonta	S	28.00	8.00	no
33.7583	118.2694	89-11-21	Macoma Nasuta	S	0.00	0.50	no
			Macoma Nasuta	S	1.25	0.00	no
			Nephtys Caecoides	S	2.63	1.54	no
			Nephtys Caecoides	S	11.00	5.00	no
33.7589	118.2603	85-12-15	Neanthes Arenacedonta	S	19.00	8.00	no
33.7611	118.2589	82-04-01	Macoma Nasuta	S	1.00	0.00	no
			Neanthes Arenacedonta	S	17.00	9.00	no
33.7611	118.2611	81-06-01	Macoma Nasuta	S	1.00	1.00	no
33.7611	118.2675	81-06-01	Macoma Nasuta	S	1.00	2.00	no
			Neanthes Arenacedonta	S	12.00	11.00	no
33.7619	118.2586	82-04-01	Macoma Nasuta	S	3.00	0.00	no
			Neanthes Arenacedonta	S	25.00	9.00	no
33.7619	118.2600	82-04-01	Macoma Nasuta	S	0.00	0.00	no
			Neanthes Arenacedonta	S	18.00	9.00	no
33.7622	118.2528	81-06-01	Macoma Nasuta	S	0.00	1.00	no
33.7625	118.2583	88-01-19	Acartia Spp.	E	18.33	11.67	no
			Holmesimysis Sculpia	E	15.00	5.00	no
			Holmesimysis Sculpia	S	27.00	10.00	no
			Macoma Nasuta	S	100.00	0.00	Yes
			Neanthes Arenacedonta	S	22.00	6.00	no
			Sandab Speckled	E	0.00	0.00	no
33.7625	118.2761	81-06-01	Macoma Nasuta	S	3.00	0.00	no
			Neanthes Arenacedonta	S	27.00	18.00	no
33.7628	118.2500	81-06-01	Macoma Nasuta	S	1.00	2.00	no
			Neanthes Arenacedonta	S	10.00	11.00	no
33.7633	118.2772	81-06-01	Macoma Nasuta	S	0.00	2.00	no
			Neanthes Arenacedonta	S	24.00	11.00	no
33.7639	118.2600	82-04-01	Macoma Nasuta	S	1.00	0.00	no
			Neanthes Arenacedonta	S	10.00	9.00	no

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
33.7661	118.2750	81-06-01	Macoma Nasuta	S	1.00	1.00	no
33.7667	118.2786	81-06-01	Macoma Nasuta	S	0.00	2.00	no
			Neanthes Arenacedonta	S	35.00	11.00	Yes
33.7694	118.2278	82-03-15	Macoma Nasuta	S	0.00	0.00	no
			Neanthes Arenacedonta	S	0.00	10.00	no
33.7744	118.2172	80-01-31	Acartia Spp.	E	6.67	13.33	no
			Holmesimysis Sculpta	E	16.67	20.00	no
			Macoma Nasuta	S	63.00	7.00	Yes
			Neanthes Arenacedonta	S	0.00	4.00	no
			Sandab Speckled	E	0.00	0.00	no