

TABLE 1
 State Mussel Watch Program
Preliminary Summary of 2000-01 Data: Trace Elements in Mussels and Clams (ppm, weight wet)

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Zinc
3.0	Crescent City/Control	RCM	04/10/01	72.0	1.7	0.85	1.01	1.19	0.16	1.96	0.023	1.16	0.77	0.004	18.0
10.0	Trinidad Head	RCM	11/27/00	87.2	1.7	0.89	0.81	1.72	0.16	2.32	0.013	0.69	0.76	0.004	15.4
101.0	Samoa Bridge/West	TCM	03/07/01	93.3	NA	1.56	0.95	1.19	0.23	2.03	0.035	NA	NA	0.008	22.9
103.5	Humboldt Bay/Clark Slough	TCM	03/07/01	284.7	NA	1.09	1.65	1.72	0.39	5.23	0.038	NA	NA	0.012	27.1
202.0	Bodega Head	RCM	10/09/00	52.7	2.0	1.98	0.60	1.12	0.21	1.21	0.036	0.65	0.51	0.021	23.3
203.0	Tomaes Bay	RCM	04/03/01	188.7	1.0	0.83	1.35	1.11	0.11	8.64	0.026	1.44	0.68	0.003	15.0
203.3	Tomaes Bay/Walker Creek Mouth 1	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.045	NA	NA	NA	NA
203.4	Tomaes Bay/Walker Creek Mouth 4	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.037	NA	NA	NA	NA
203.5	Tomaes Bay/Walker Creek Mouth 2	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.041	NA	NA	NA	NA
203.7	Tomaes Bay/Walker Creek Mouth 3	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.036	NA	NA	NA	NA
203.8	Tomaes Bay/Marshall	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.032	NA	NA	NA	NA
204.3	Tomaes Bay/Hamlet	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.059	NA	NA	NA	NA
204.4	Tomaes Bay/Audubon	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.039	NA	NA	NA	NA
306.0	San Francisco Bay/Fort Baker	TCM	03/08/01	208.9	1.5	0.77	1.05	1.80	0.76	4.95	0.031	0.93	0.79	0.009	31.1
336.0	J. Fitzgerald	RCM	03/08/01	93.3	1.5	1.31	0.64	0.97	0.19	1.22	0.029	0.54	0.50	0.045	21.4
404.0	Sandholdt Bridge	TCM	03/23/01	202.6	1.3	1.02	0.76	1.28	0.33	4.87	0.030	0.72	0.47	0.013	41.6
414.0	Pacific Grove	RCM	04/12/01	25.9	1.8	1.73	0.34	0.87	0.56	0.58	0.020	0.47	0.55	0.019	31.3
448.7	San Antonio River Mouth	TFC	04/17/01	96.9	NA	0.19	0.76	7.77	0.05	5.78	0.029	NA	NA	0.007	10.1
448.9	Santa Ynez River Mouth	TFC	04/17/01	54.2	NA	0.18	0.83	8.17	0.04	4.21	0.023	NA	NA	0.006	11.2
449.5	Jalama State Beach	RCM	02/26/01	92.5	1.3	0.50	3.01	1.12	0.15	1.27	0.013	1.76	0.46	0.120	21.7
455.0	Gaviota	RCM	04/17/01	61.4	NA	0.60	1.32	1.00	0.15	1.61	ND	NA	NA	0.081	21.3
470.0	Santa Barbara Harbor	TCM	03/21/01	143.6	NA	0.91	0.66	22.82	0.78	2.05	0.036	NA	NA	0.010	72.6
475.0	Carpinteria Marsh	TCM	03/20/01	175.0	NA	1.07	1.06	1.28	0.34	4.23	0.032	NA	NA	0.004	28.9
502.0	Santa Cruz Island	RCM	03/19/01	3.6	NA	3.12	0.34	0.82	0.17	0.40	ND	NA	NA	0.002	20.2
601.0	LA Harbor/National Steel	TCM	03/20/01	129.9	1.5	1.04	0.69	3.72	1.46	4.42	0.034	0.41	0.53	0.009	59.9
609.4	Long Beach/Queensway Bay	RCM	03/20/01	13.5	NA	0.14	0.24	1.07	0.17	1.70	0.016	NA	NA	0.059	19.4
616.0	LA Harbor/Consolidated Slip	TCM	03/20/01	127.1	1.5	1.25	0.87	3.48	1.78	3.87	0.032	0.54	0.56	0.012	61.8
617.9	Cabrillo Beach/Ocean Side	RCM	11/14/00	74.6	NA	0.39	0.87	1.54	0.33	2.48	0.034	NA	NA	0.391	22.8
648.0	Malibu	RCM	04/16/01	162.5	NA	0.44	1.91	1.14	0.14	4.14	ND	NA	NA	0.049	16.9
650.0	Santa Monica	RCM	11/14/00	74.2	NA	0.26	2.29	1.66	0.52	2.52	0.021	NA	NA	0.387	27.1
662.0	Royal Palms	RCM	03/20/01	72.5	1.9	0.36	0.83	1.29	0.35	2.73	0.016	0.54	0.65	0.258	27.5
708.0	Anaheim Bay/Navy Marsh	TCM	03/19/01	185.3	NA	0.88	0.79	2.37	1.00	4.39	0.021	NA	NA	0.010	42.3
708.5	Anaheim Bay/Navy Marsh 2	TCM	03/19/01	192.5	NA	1.35	0.81	1.62	0.73	3.68	0.033	NA	NA	0.013	34.3
709.0	Anaheim Bay/Entrance	TCM	03/19/01	123.1	NA	0.97	0.55	2.02	0.89	3.86	0.030	NA	NA	0.008	39.6
713.0	Huntington Harbour/Edinger Street	TCM	03/19/01	94.8	NA	0.73	0.48	3.12	1.14	6.28	0.019	NA	NA	0.001	60.1
715.0	Huntington Harbour/Warner Ave Brdg	TCM	03/19/01	59.3	NA	0.47	0.49	1.75	1.10	8.70	0.014	NA	NA	0.001	47.0
723.0	Newport Bay/Bay Island	TCM	03/19/01	105.4	NA	1.10	0.47	2.75	0.47	4.20	0.028	NA	NA	0.006	47.4
723.4	Newport Bay/Turning Basin	TCM	03/19/01	135.3	NA	0.72	0.64	9.78	0.92	6.11	0.028	NA	NA	0.003	79.2
724.0	Newport Bay/Highway 1 Bridge	TCM	03/19/01	147.4	NA	0.89	0.51	3.33	1.43	4.22	0.024	NA	NA	ND	56.9
725.0	Newport Bay/Crows Nest	TCM	03/19/01	100.5	NA	1.12	0.51	16.36	1.00	3.49	0.074	NA	NA	0.008	84.0
726.0	Newport Bay/Rhine Channel/Upper	TCM	03/19/01	35.0	NA	1.10	0.57	24.44	1.21	5.41	0.064	NA	NA	0.006	99.3

* RCM = Resident California Mussel
 TCM = Transplanted California Mussel

TFC = Transplanted Freshwater Clam

NA = Not Analyzed
 ND = Not Detected

TABLE 1

State Mussel Watch Program

Preliminary Summary of 2000-01 Data: Trace Elements in Mussels and Clams (ppm, weight wet)

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Zinc
726.4	Newport Bay/Rhine Channel/End	TCM	03/19/01	78.6	NA	0.89	0.56	28.73	0.98	4.46	0.062	NA	NA	0.008	95.7
726.6	Newport Bay/Mariners Drive	TCM	03/19/01	98.2	NA	0.88	0.40	1.70	0.42	4.10	0.027	NA	NA	0.001	44.4
727.0	Garden Grove/Wintersburg Channel	TFC	04/16/01	14.3	NA	0.11	0.63	14.21	0.05	2.94	0.049	NA	NA	0.013	12.4
728.4	Upper Newport Bay/MacArthur	TFC	04/16/01	38.1	NA	0.09	0.56	7.89	0.04	3.77	0.025	NA	NA	0.005	13.9
748.0	Oceanside/Harbor	TCM	03/19/01	82.7	NA	0.78	0.47	20.76	0.42	2.50	0.040	NA	NA	0.007	92.3
750.0	Oceanside	RCM	11/13/00	90.4	1.4	0.16	1.11	1.50	0.12	2.58	ND	0.70	0.72	0.008	19.5
866.0	Fisherman Channel	TCM	03/20/01	130.6	NA	1.00	0.54	1.78	0.52	2.70	0.029	NA	NA	0.006	38.2
868.6	Mission Bay/Landfill 2	TCM	03/20/01	21.0	NA	1.39	0.39	1.13	0.38	1.61	0.047	NA	NA	0.033	46.2
883.1	San Diego Bay/Chollas Creek	TCM	03/20/01	116.3	NA	0.84	1.19	14.55	1.82	11.95	0.038	NA	NA	0.049	84.1
883.6	San Diego Bay/7th Street Channel	TCM	03/20/01	79.3	NA	1.03	0.43	11.18	1.11	10.75	0.029	NA	NA	0.032	77.4
887.0	San Diego Bay/Evans Street	TCM	03/20/01	94.7	NA	0.85	0.45	8.48	1.29	6.97	0.036	NA	NA	0.039	69.9
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	03/20/01	116.8	1.4	1.14	0.70	18.98	1.67	5.35	0.057	0.32	0.60	0.060	103.9
898.0	Commercial Basin/Carlton Street	TCM	03/20/01	186.9	NA	0.99	0.77	40.80	2.19	5.37	0.129	NA	NA	0.064	111.6
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	03/20/01	174.7	1.9	0.87	0.73	5.75	1.63	4.83	0.035	0.35	0.68	0.020	66.4
899.4	San Diego Bay/Shelter Is/Fuel Dock	TCM	03/20/01	121.2	NA	0.76	0.58	40.06	1.40	2.83	0.122	NA	NA	0.047	128.3

* RCM = Resident California Mussel

TFC = Transplanted Freshwater Clam

NA = Not Analyzed

TCM = Transplanted California Mussel

ND = Not Detected

TABLE 2
 State Mussel Watch Program
Preliminary Summary of 2000-01 Data: Trace Elements in Mussels and Clams (ppm, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Zinc
3.0	Crescent City/Control	RCM	04/10/01	452.0	10.6	5.32	6.32	7.5	1.03	12.3	0.147	7.3	4.8	0.027	112.7
10.0	Trinidad Head	RCM	11/27/00	380.0	7.3	3.87	3.53	7.5	0.69	10.1	0.055	3.0	3.3	0.017	66.9
101.0	Samoa Bridge/West	TCM	03/07/01	698.0	NA	11.67	7.08	8.9	1.73	15.2	0.263	NA	NA	0.060	171.7
103.5	Humboldt Bay/Clark Slough	TCM	03/07/01	1698.0	NA	6.49	9.85	10.3	2.30	31.2	0.226	NA	NA	0.070	161.3
202.0	Bodega Head	RCM	10/09/00	319.0	12.0	11.97	3.61	6.8	1.25	7.3	0.219	3.9	3.1	0.127	140.7
203.0	Tomaes Bay	RCM	04/03/01	1177.0	6.1	5.19	8.43	6.9	0.67	53.9	0.161	9.0	4.2	0.020	93.7
203.3	Tomaes Bay/Walker Creek Mouth 1	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.298	NA	NA	NA	NA
203.4	Tomaes Bay/Walker Creek Mouth 4	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.272	NA	NA	NA	NA
203.5	Tomaes Bay/Walker Creek Mouth 2	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.285	NA	NA	NA	NA
203.7	Tomaes Bay/Walker Creek Mouth 3	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.268	NA	NA	NA	NA
203.8	Tomaes Bay/Marshall	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.228	NA	NA	NA	NA
204.3	Tomaes Bay/Hamlet	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.397	NA	NA	NA	NA
204.4	Tomaes Bay/Audubon	TCM	04/04/01	NA	NA	NA	NA	NA	NA	NA	0.225	NA	NA	NA	NA
306.0	San Francisco Bay/Fort Baker	TCM	03/08/01	1274.0	9.0	4.68	6.38	11.0	4.66	30.2	0.190	5.7	4.8	0.058	189.8
336.0	J. Fitzgerald	RCM	03/08/01	628.0	10.4	8.83	4.28	6.6	1.24	8.2	0.197	3.6	3.4	0.305	143.7
404.0	Sandholdt Bridge	TCM	03/23/01	1587.0	10.0	7.99	5.94	10.1	2.59	38.2	0.233	5.7	3.7	0.105	325.7
414.0	Pacific Grove	RCM	04/12/01	203.0	13.8	13.57	2.70	6.8	4.37	4.5	0.159	3.7	4.3	0.147	245.7
448.7	San Antonio River Mouth	TFC	04/17/01	1270.0	NA	2.48	9.94	101.8	0.60	75.7	0.382	NA	NA	0.096	132.7
448.9	Santa Ynez River Mouth	TFC	04/17/01	475.0	NA	1.58	7.27	71.7	0.34	36.9	0.205	NA	NA	0.053	98.5
449.5	Jalama State Beach	RCM	02/26/01	603.0	8.1	3.30	19.65	7.3	0.96	8.3	0.086	11.5	3.0	0.783	141.7
455.0	Gaviota	RCM	04/17/01	450.0	NA	4.40	9.70	7.4	1.07	11.8	ND	NA	NA	0.593	156.3
470.0	Santa Barbara Harbor	TCM	03/21/01	1130.0	NA	7.16	5.21	179.7	6.17	16.2	0.282	NA	NA	0.077	571.3
475.0	Carpinteria Marsh	TCM	03/20/01	1169.0	NA	7.15	7.10	8.5	2.28	28.2	0.213	NA	NA	0.025	193.0
502.0	Santa Cruz Island	RCM	03/19/01	23.0	NA	20.23	2.24	5.3	1.10	2.6	ND	NA	NA	0.013	131.3
601.0	LA Harbor/National Steel	TCM	03/20/01	888.0	10.2	7.10	4.74	25.4	9.95	30.2	0.234	2.8	3.6	0.058	409.3
609.4	Long Beach/Queensway Bay	RCM	03/20/01	105.0	NA	1.10	1.84	8.3	1.36	13.2	0.128	NA	NA	0.457	150.7
616.0	LA Harbor/Consolidated Slip	TCM	03/20/01	885.0	10.5	8.67	6.02	24.2	12.38	26.9	0.225	3.8	3.9	0.083	430.3
617.9	Cabrillo Beach/Ocean Side	RCM	11/14/00	543.0	NA	2.82	6.33	11.2	2.40	18.0	0.246	NA	NA	2.847	166.3
648.0	Malibu	RCM	04/16/01	977.0	NA	2.66	11.50	6.9	0.82	24.9	ND	NA	NA	0.293	101.8
650.0	Santa Monica	RCM	11/14/00	527.0	NA	1.88	16.30	11.8	3.73	17.9	0.149	NA	NA	2.750	192.3
662.0	Royal Palms	RCM	03/20/01	551.0	14.1	2.71	6.27	9.8	2.65	20.8	0.124	4.1	4.9	1.957	209.0
708.0	Anaheim Bay/Navy Marsh	TCM	03/19/01	1028.0	NA	4.86	4.40	13.2	5.53	24.4	0.118	NA	NA	0.053	234.3
708.5	Anaheim Bay/Navy Marsh 2	TCM	03/19/01	1466.0	NA	10.31	6.17	12.3	5.57	28.0	0.253	NA	NA	0.097	261.0
709.0	Anaheim Bay/Entrance	TCM	03/19/01	760.0	NA	5.99	3.41	12.5	5.50	23.8	0.185	NA	NA	0.051	244.3
713.0	Huntington Harbour/Edinger Street	TCM	03/19/01	562.0	NA	4.32	2.86	18.5	6.77	37.2	0.115	NA	NA	0.007	356.3
715.0	Huntington Harbour/Warner Ave Brdg	TCM	03/19/01	373.0	NA	2.93	3.05	11.0	6.92	54.7	0.087	NA	NA	0.008	295.7
723.0	Newport Bay/Bay Island	TCM	03/19/01	782.0	NA	8.19	3.52	20.4	3.52	31.2	0.210	NA	NA	0.046	352.3
723.4	Newport Bay/Turning Basin	TCM	03/19/01	797.0	NA	4.24	3.80	57.7	5.42	36.0	0.168	NA	NA	0.016	466.7
724.0	Newport Bay/Highway 1 Bridge	TCM	03/19/01	951.0	NA	5.73	3.30	21.5	3.56	27.2	0.157	NA	NA	ND	367.3
725.0	Newport Bay/Crows Nest	TCM	03/19/01	651.0	NA	7.28	3.32	106.0	6.51	22.6	0.480	NA	NA	0.051	544.3
726.0	Newport Bay/Rhine Channel/Upper	TCM	03/19/01	248.0	NA	7.76	4.04	173.3	8.55	38.4	0.451	NA	NA	0.040	704.3

* RCM = Resident California Mussel
 TCM = Transplanted California Mussel

TFC = Transplanted Freshwater Clam

NA = Not Analyzed
 ND = Not Detected

TABLE 2

State Mussel Watch Program

Preliminary Summary of 2000-01 Data: Trace Elements in Mussels and Clams (ppm, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Zinc
726.4	Newport Bay/Rhine Channel/End	TCM	03/19/01	493.0	NA	5.57	3.48	180.3	6.12	28.0	0.390	NA	NA	0.049	600.7
726.6	Newport Bay/Mariners Drive	TCM	03/19/01	652.0	NA	5.82	2.64	11.3	2.79	27.2	0.182	NA	NA	0.008	295.0
727.0	Garden Grove/Wintersburg Channel	TFC	04/16/01	179.0	NA	1.33	7.89	177.7	0.59	36.8	0.609	NA	NA	0.164	154.7
728.4	Upper Newport Bay/MacArthur	TFC	04/16/01	269.0	NA	0.66	3.97	55.7	0.26	26.6	0.177	NA	NA	0.037	98.5
748.0	Oceanside/Harbor	TCM	03/19/01	619.0	NA	5.82	3.48	155.3	3.16	18.7	0.297	NA	NA	0.053	690.3
750.0	Oceanside	RCM	11/13/00	520.0	8.2	0.94	6.39	8.6	0.68	14.8	ND	4.0	4.1	0.046	112.0
866.0	Fisherman Channel	TCM	03/20/01	842.0	NA	6.44	3.47	11.5	3.33	17.4	0.188	NA	NA	0.037	246.3
868.6	Mission Bay/Landfill 2	TCM	03/20/01	161.0	NA	10.73	2.99	8.7	2.90	12.4	0.362	NA	NA	0.257	355.0
883.1	San Diego Bay/Chollas Creek	TCM	03/20/01	698.0	NA	5.06	7.16	87.3	10.95	71.7	0.225	NA	NA	0.297	504.3
883.6	San Diego Bay/7th Street Channel	TCM	03/20/01	495.0	NA	6.44	2.68	69.7	6.93	67.1	0.183	NA	NA	0.197	483.0
887.0	San Diego Bay/Evans Street	TCM	03/20/01	620.0	NA	5.59	2.96	55.5	8.46	45.6	0.236	NA	NA	0.253	458.0
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	03/20/01	825.0	10.2	8.05	4.97	134.0	11.80	37.8	0.405	2.3	4.3	0.424	733.3
898.0	Commercial Basin/Carlton Street	TCM	03/20/01	1211.0	NA	6.39	4.99	264.3	14.17	34.8	0.836	NA	NA	0.413	723.0
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	03/20/01	962.0	10.4	4.79	4.04	31.7	8.98	26.6	0.192	1.9	3.7	0.111	365.7
899.4	San Diego Bay/Shelter Is/Fuel Dock	TCM	03/20/01	727.0	NA	4.54	3.49	240.3	8.40	17.0	0.731	NA	NA	0.285	770.0

* RCM = Resident California Mussel
 TCM = Transplanted California Mussel

TFC = Transplanted Freshwater Clam

NA = Not Analyzed
 ND = Not Detected