

**APPENDIX N**

**Summary of 1995-97 Data**

**Organic Chemicals in Mussel, Oyster, Shore Crab,  
and Sand Worm  
(ppb, dry weight)**

## APPENDIX N

### State Mussel Watch Program

#### Summary of 1995-97 Data: Organic Chemicals in Mussel, Oyster, Shore Crab, and Sand Worm (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
1.0	Crescent City Harbor	RCM	04/09/97	ND	ND	3.5	2.5	2.1	ND	2.2	ND	10.3	ND	ND
2.0	Crescent City/STP Outfall	RCM	04/09/97	ND	ND	4.2	ND	6.7	ND	2.6	ND	13.4	ND	ND
2.2	Crescent City Harbor/Inner Jetty	RCM	04/09/97	ND	ND	3.3	1.6	3.0	ND	1.6	ND	9.6	ND	ND
3.0	Crescent City/Control	RCM	04/10/97	ND	ND	1.4	ND	1.1	ND	ND	ND	2.5	ND	ND
100.0	Mad River Slough	OYS	04/10/97	ND	ND	1.8	ND	1.7	ND	ND	ND	3.5	ND	2.3
101.4	Arcata Bay/Jolly Giant Slough	PAC	04/18/96	ND	ND	ND	ND	ND	ND	2.6	2.1	4.7	ND	ND
101.8	Humboldt Bay/Halberson Shoreline	PAC	04/17/96	ND	ND	ND	ND	ND	ND	3.3	2.6	5.9	ND	ND
101.8	Humboldt Bay/Halberson Shoreline	RBM-s	04/17/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101.8	Humboldt Bay/Halberson Shoreline	GLY	04/17/96	ND	ND	1.9	ND	1.3	ND	2.9	ND	6.1	ND	ND
102.6	Humboldt Bay/J Street	GLY	04/17/96	ND	ND	1.0	ND	ND	3.9	5.6	ND	10.5	5.8	ND

  

Station Number	Diaz-inon	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dieldrin	Endo-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion
1.0	ND	ND	ND	ND	9.1	ND	ND	ND	9.1	ND	ND	ND	ND	ND	ND	ND	ND
2.0	ND	ND	ND	ND	14.5	ND	3.1	ND	17.6	ND	2.5	ND	ND	ND	ND	ND	ND
2.2	ND	ND	ND	ND	5.4	ND	ND	ND	5.4	ND	3.6	ND	ND	ND	ND	ND	ND
3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND
100.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND
101.4	NA	ND	ND	ND	1.4	ND	ND	ND	1.4	ND	2.8	ND	ND	ND	ND	ND	NA
101.8	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
101.8	NA	ND	ND	ND	3.0	ND	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	NA
101.8	NA	ND	ND	ND	1.6	ND	ND	ND	1.6	ND	2.6	ND	ND	ND	ND	ND	NA
102.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	ND	ND	ND	NA

  

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene
1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.7	ND	32.7	NA	ND	ND
2.0	1.3	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	11.0	ND	11.0	NA	ND	ND
2.2	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.5	ND	33.5	NA	ND	ND
3.0	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
100.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.2	ND	23.2	NA	ND	ND
101.4	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND
101.8	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND
101.8	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND
101.8	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND
102.6	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel (s = small size)  
 TCM = Transplanted California Mussel (a = archive)

OYS = Oyster (*Crassostrea gigas*)  
 GLY = Sand Worm (*Glycera* spp.)  
 PAC = Shore Crab (*Pachygrapsus crassipes*)

NA = Not Analyzed  
 ND = Not Detected

## APPENDIX N

### State Mussel Watch Program

#### Summary of 1995-97 Data: Organic Chemicals in Mussel, Oyster, Shore Crab, and Sand Worm (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
102.6	Humboldt Bay/J Street	PAC	04/17/96	ND	ND	ND	ND	ND	ND	ND	5.7	5.7	ND	ND
102.6	Humboldt Bay/J Street	RBM	04/17/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102.6	Humboldt Bay/J Street	TCM	04/10/97	ND	ND	2.5	1.3	2.1	ND	1.4	ND	7.2	ND	ND
102.7	Humboldt Bay/H Street	RBM-s	04/17/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
102.7	Humboldt Bay/H Street	GLY	04/17/96	ND	ND	3.1	ND	ND	2.7	7.9	ND	13.7	ND	ND
102.7	Humboldt Bay/H Street	PAC	04/17/96	ND	ND	ND	ND	ND	ND	ND	1.8	1.8	ND	ND
103.3	Humboldt Bay/E Street	TCM	04/10/97	ND	ND	2.2	ND	1.5	ND	ND	ND	3.7	ND	ND
103.5	Humboldt Bay/Clark Slough	TCM	04/10/97	ND	ND	2.3	ND	2.2	ND	1.2	ND	5.7	ND	ND
202.0	Bodega Head	RCM	09/11/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
202.0	Bodega Head	RCM	08/29/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

  

Station Number	Diaz-inon	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dieldrin	Endo-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion
102.6	NA	ND	ND	ND	7.5	ND	ND	ND	7.5	ND	1.7	ND	ND	ND	ND	ND	NA
102.6	NA	ND	ND	ND	4.5	ND	ND	ND	4.5	ND	ND	ND	ND	ND	ND	ND	NA
102.6	ND	ND	ND	ND	3.7	ND	ND	ND	3.7	ND	4.1	ND	ND	ND	ND	ND	ND
102.7	NA	ND	ND	ND	3.3	ND	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	NA
102.7	NA	ND	7.5	ND	63.1	ND	ND	ND	70.6	ND	2.3	ND	ND	ND	ND	ND	NA
102.7	NA	ND	ND	ND	10.7	ND	ND	ND	10.7	ND	1.6	ND	ND	ND	ND	ND	NA
103.3	ND	ND	ND	ND	4.5	ND	1.0	ND	5.5	ND	3.4	ND	ND	ND	ND	ND	ND
103.5	ND	ND	ND	ND	3.0	ND	ND	ND	3.0	ND	2.5	ND	ND	ND	ND	ND	ND
202.0	ND	ND	ND	ND	7.5	ND	ND	ND	7.5	ND	2.1	ND	ND	NA	ND	ND	ND
202.0	ND	ND	ND	ND	5.5	ND	ND	ND	5.5	ND	3.9	ND	ND	ND	ND	ND	ND

  

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene
102.6	ND	ND	ND	ND	ND	ND	2.5	ND	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND
102.6	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	85.0	ND	85.0	ND	NA	ND
102.6	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.9	ND	21.9	NA	ND	ND
102.7	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	570.0	ND	570.0	ND	NA	ND
102.7	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	320.0	170.0	490.0	ND	NA	ND
102.7	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	190.0	190.0	ND	NA	ND
103.3	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.9	ND	25.9	NA	ND	ND
103.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.5	ND	29.5	NA	ND	ND
202.0	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.8	ND	11.8	NA	ND	ND
202.0	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.3	ND	29.3	NA	ND	ND

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel (s = small size)  
 TCM = Transplanted California Mussel (a = archive)

OYS = Oyster (*Crassostrea gigas*)  
 GLY = Sand Worm (*Glycera* spp.)  
 PAC = Shore Crab (*Pachygrapsus crassipes*)

NA = Not Analyzed  
 ND = Not Detected

## APPENDIX N

### State Mussel Watch Program

#### Summary of 1995-97 Data: Organic Chemicals in Mussel, Oyster, Shore Crab, and Sand Worm (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
205.0	Bodega Harbor/Spud Point Marina	TCM	03/21/97	ND	1.3	4.0	1.3	2.9	ND	2.0	ND	11.5	ND	ND
205.1	Bodega Bay/Porto Bodega	RBM	03/21/97	ND	ND	2.2	ND	2.2	ND	1.7	ND	6.2	ND	2.2
205.3	Bodega Bay/Mason's Marina	TCM	03/21/97	ND	ND	1.4	ND	1.3	ND	ND	ND	2.7	ND	ND
205.5	Bodega Bay/Back Marsh	RBM	03/21/97	ND	ND	1.0	ND	1.0	ND	ND	ND	2.0	ND	ND
280.0	Russian River/S Goat Rock	RCM	03/21/97	ND	ND	3.4	ND	2.3	ND	1.4	ND	7.0	ND	ND
307.0	San Francisco Bay/Treasure Is	TCM-a	01/26/81	ND	2.1	23.4	3.1	22.3	8.6	17.0	ND	76.5	ND	2.3
307.0	San Francisco Bay/Treasure Is	TCM-a	02/02/82	ND	2.1	22.3	2.7	19.1	8.4	15.0	ND	69.6	ND	ND
308.0	San Francisco Bay/Hunter's Point	TCM-a	01/26/81	ND	1.3	25.9	1.8	22.9	9.4	13.6	1.2	76.0	ND	ND
309.0	San Mateo Bridge/8B	TCM-a	02/09/81	ND	1.6	28.2	2.5	22.8	10.4	19.1	1.4	86.0	ND	4.3
313.0	San Francisco Bay/near Redwood Cr	TCM-a	01/26/81	ND	1.7	32.8	1.5	28.2	10.8	19.9	1.6	96.5	ND	2.8

Station Number	Diaz-inon	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dieldrin	Endo-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion
205.0	ND	ND	ND	ND	10.7	ND	ND	ND	10.7	ND	2.9	ND	ND	ND	ND	ND	ND
205.1	ND	ND	ND	ND	16.7	ND	ND	ND	16.7	ND	ND	ND	ND	ND	ND	ND	ND
205.3	ND	ND	ND	ND	9.4	ND	ND	ND	9.4	ND	2.9	ND	ND	ND	ND	ND	ND
205.5	ND	ND	ND	ND	5.2	ND	ND	ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND
280.0	ND	ND	ND	ND	11.2	ND	5.3	ND	16.5	ND	6.4	ND	ND	ND	ND	ND	ND
307.0	ND	17.9	60.5	4.2	58.5	4.1	9.9	12.3	167.4	ND	30.0	0.7	ND	ND	0.7	ND	ND
307.0	ND	15.2	46.4	3.5	46.9	5.8	12.5	11.3	141.6	ND	44.5	ND	3.8	ND	3.8	ND	ND
308.0	ND	14.0	39.2	ND	53.5	ND	11.0	9.9	127.6	ND	51.5	2.3	ND	ND	2.3	ND	ND
309.0	ND	9.9	27.3	ND	43.3	ND	11.5	6.8	98.8	ND	62.1	2.5	ND	ND	2.5	ND	ND
313.0	ND	8.4	21.7	ND	37.3	ND	10.3	7.4	85.1	ND	65.9	2.6	ND	ND	2.6	ND	ND

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene
205.0	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND	ND	59.7	14.6	74.3	NA	ND	ND
205.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	105.0	ND	105.0	NA	ND	ND
205.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.2	ND	31.2	NA	ND	ND
205.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
280.0	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
307.0	3.0	ND	ND	2.9	ND	0.9	ND	1.7	ND	ND	ND	124.0	522.0	25.4	671.4	NA	ND	106.0
307.0	3.5	ND	ND	2.9	ND	1.9	ND	ND	ND	ND	ND	127.0	486.0	22.1	635.1	NA	ND	193.0
308.0	2.5	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	71.5	404.0	30.7	506.2	NA	ND	126.0
309.0	1.9	ND	ND	2.9	ND	2.0	ND	1.2	ND	ND	ND	69.4	353.0	32.0	454.4	NA	ND	111.0
313.0	1.7	ND	ND	3.1	ND	1.8	1.0	2.0	ND	ND	ND	54.8	308.0	22.1	384.9	NA	ND	106.0

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel (s = small size)  
 TCM = Transplanted California Mussel (a = archive)

OYS = Oyster (*Crassostrea gigas*)  
 GLY = Sand Worm (*Glycera* spp.)  
 PAC = Shore Crab (*Pachygrapsus crassipes*)

NA = Not Analyzed  
 ND = Not Detected

## APPENDIX N

### State Mussel Watch Program

#### Summary of 1995-97 Data: Organic Chemicals in Mussel, Oyster, Shore Crab, and Sand Worm (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
321.0	Dumbarton Bridge/Channel Marker 14	TCM-a	02/09/81	5.8	3.3	39.9	3.9	31.4	14.6	25.2	1.4	119.7	ND	8.3
400.6	Santa Cruz/Natural Bridges	RCM	06/09/97	ND	ND	4.3	ND	3.8	1.0	3.6	ND	12.7	ND	ND
400.7	Santa Cruz Harbor/Inner	TCM	03/25/96	ND	ND	31.9	ND	25.2	13.1	23.2	2.1	95.5	1.4	ND
401.0	Santa Cruz Harbor	TCM	03/25/96	ND	ND	22.0	ND	18.3	10.0	18.4	1.6	70.3	ND	ND
403.0	Elkhorn Slough/Highway 1 Bridge	TCM	03/12/97	ND	ND	8.2	ND	7.7	2.7	4.8	ND	23.4	ND	4.1
404.0	Sandholdt Bridge	TCM	02/16/96	ND	ND	33.8	ND	29.1	16.7	29.2	ND	108.8	14.1	47.4
404.0	Sandholdt Bridge	TCM	03/04/97	ND	2.2	38.2	ND	32.9	19.0	38.7	ND	131.0	9.5	23.8
414.0	Pacific Grove	RCM	03/07/96	ND	ND	3.6	ND	3.1	ND	1.9	ND	8.7	ND	ND
414.0	Pacific Grove	RCM	04/25/97	ND	ND	2.6	ND	ND	ND	1.5	ND	4.1	ND	2.6
601.0	LA Harbor/National Steel	TCM	01/18/96	ND	ND	15.1	ND	14.2	8.6	13.3	ND	51.2	ND	ND

  

Station Number	Diaz-inon	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dieldrin	Endo-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion
321.0	ND	11.0	28.4	ND	51.8	ND	11.6	8.2	111.0	ND	65.8	4.6	ND	2.3	6.9	2.4	ND
400.6	ND	ND	6.7	ND	50.7	ND	16.2	ND	73.6	ND	13.4	ND	ND	ND	ND	ND	ND
400.7	ND	ND	7.1	ND	30.6	ND	16.1	ND	53.8	ND	25.2	ND	ND	NA	ND	ND	ND
401.0	ND	ND	11.3	ND	48.9	ND	20.7	ND	80.9	ND	12.0	ND	ND	NA	ND	ND	ND
403.0	ND	11.7	34.2	3.9	253.0	25.1	78.4	6.3	412.6	ND	43.6	ND	ND	ND	ND	ND	ND
404.0	ND	88.9	264.0	45.0	1870.0	98.8	756.0	55.5	3178.2	ND	231.0	3.7	10.2	ND	13.9	28.7	ND
404.0	ND	89.8	384.0	38.2	2030.0	214.0	785.0	43.8	3584.8	ND	238.0	2.8	10.9	ND	13.7	18.7	ND
414.0	ND	ND	5.5	ND	37.4	ND	10.9	ND	53.8	ND	9.6	ND	ND	NA	ND	ND	ND
414.0	ND	ND	ND	ND	22.4	ND	6.4	ND	28.8	ND	7.7	ND	ND	ND	ND	ND	ND
601.0	ND	17.4	62.6	30.0	246.0	ND	14.1	19.6	389.7	ND	4.1	ND	ND	NA	ND	ND	ND

  

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene
321.0	2.5	ND	ND	6.8	ND	2.9	1.4	1.4	ND	ND	2.7	169.0	475.0	24.0	668.0	NA	ND	120.0
400.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.7	ND	18.7	NA	ND	ND
400.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	50.7	ND	50.7	NA	ND	ND
401.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	109.0	ND	109.0	NA	ND	ND
403.0	ND	ND	ND	ND	ND	ND	ND	ND	10.0	ND	ND	ND	89.3	10.5	99.8	NA	ND	261.0
404.0	ND	ND	ND	ND	ND	3.4	ND	ND	ND	ND	7.2	ND	246.0	ND	246.0	NA	ND	1670.0
404.0	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	243.0	34.4	277.4	NA	ND	1970.0
414.0	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.9	ND	15.9	NA	ND	ND
414.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	66.4	ND	ND	66.4	NA	ND	ND
601.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	67.5	436.0	ND	503.5	NA	ND	ND

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel (s = small size)  
 TCM = Transplanted California Mussel (a = archive)

OYS = Oyster (*Crassostrea gigas*)  
 GLY = Sand Worm (*Glycera* spp.)  
 PAC = Shore Crab (*Pachygrapsus crassipes*)

NA = Not Analyzed  
 ND = Not Detected

## APPENDIX N

### State Mussel Watch Program

#### Summary of 1995-97 Data: Organic Chemicals in Mussel, Oyster, Shore Crab, and Sand Worm (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
601.0	LA Harbor/National Steel	TCM	01/28/97	ND	1.3	14.6	ND	11.6	5.9	7.4	ND	40.8	ND	ND
605.0	LA Harbor/Cabrillo Pier	TCM	01/18/96	ND	ND	9.6	ND	8.7	3.9	7.0	ND	29.2	ND	ND
616.0	LA Harbor/Consolidated Slip	TCM	01/18/96	ND	1.0	18.1	1.3	18.0	9.9	18.8	1.1	68.1	ND	ND
616.0	LA Harbor/Consolidated Slip	TCM	01/28/97	ND	1.3	23.3	ND	19.2	10.4	15.5	ND	69.7	ND	2.6
618.0	LA Harbor/Angels Gate	RCM	01/18/96	ND	ND	9.8	ND	10.1	4.6	9.2	ND	33.6	ND	ND
648.0	Malibu	RBM	01/17/96	ND	ND	13.7	1.3	12.1	3.6	11.1	ND	41.8	ND	ND
648.0	Malibu	RCM	11/25/96	ND	ND	3.8	ND	3.3	1.6	4.8	ND	13.6	ND	ND
650.0	Santa Monica	RBM	01/17/96	ND	ND	12.3	1.4	14.5	ND	16.7	ND	44.9	ND	ND
650.0	Santa Monica	RCM	11/25/96	ND	ND	7.1	ND	6.4	2.7	5.8	ND	22.1	ND	ND
662.0	Royal Palms	RCM	01/18/96	ND	ND	5.5	ND	5.3	1.1	3.1	ND	15.0	ND	ND

  

Station Number	Diaz-inon	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dieldrin	Endo-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion
601.0	ND	13.3	45.2	17.8	258.0	5.3	23.3	18.9	381.8	ND	6.6	ND	ND	ND	ND	ND	ND
605.0	ND	12.8	38.7	80.1	554.0	ND	11.5	51.4	748.5	ND	4.3	ND	ND	NA	ND	ND	ND
616.0	ND	22.0	80.0	18.4	198.0	ND	19.5	11.7	349.6	ND	3.6	ND	ND	NA	ND	ND	ND
616.0	ND	20.0	63.0	8.2	272.0	4.2	39.6	15.8	422.8	ND	7.7	ND	ND	ND	ND	ND	ND
618.0	69.0	20.4	56.0	101.0	891.0	ND	19.7	101.0	1189.1	ND	1.7	ND	ND	NA	ND	ND	ND
648.0	ND	7.1	17.8	16.8	162.0	ND	6.9	23.6	234.2	ND	1.0	ND	ND	NA	ND	ND	ND
648.0	ND	ND	5.3	6.7	58.7	ND	ND	9.8	80.4	ND	1.9	ND	ND	ND	ND	ND	ND
650.0	ND	8.4	22.0	20.5	200.0	ND	4.1	31.1	286.0	ND	2.1	ND	ND	NA	ND	ND	ND
650.0	ND	ND	6.6	4.3	52.7	ND	ND	8.8	72.4	ND	3.8	ND	ND	ND	ND	ND	ND
662.0	ND	13.2	39.7	55.1	530.0	ND	10.8	54.4	703.2	ND	2.7	ND	ND	NA	ND	ND	ND

  

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene
601.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.0	272.0	893.0	34.7	1199.7	NA	ND	107.0
605.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.5	259.0	ND	319.5	NA	ND	ND
616.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	74.1	576.0	ND	650.1	NA	ND	ND
616.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.3	54.9	372.0	26.8	453.7	NA	ND	342.0
618.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.2	584.0	ND	644.2	NA	ND	ND
648.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	73.0	ND	73.0	NA	ND	ND
648.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.4	ND	43.4	NA	ND	ND
650.0	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	110.0	ND	110.0	NA	ND	ND
650.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	51.9	11.3	63.2	NA	ND	ND
662.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	99.3	ND	99.3	NA	ND	ND

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel (s = small size)  
 TCM = Transplanted California Mussel (a = archive)

OYS = Oyster (*Crassostrea gigas*)  
 GLY = Sand Worm (*Glycera* spp.)  
 PAC = Shore Crab (*Pachygrapsus crassipes*)

NA = Not Analyzed  
 ND = Not Detected

## APPENDIX N

### State Mussel Watch Program

#### Summary of 1995-97 Data: Organic Chemicals in Mussel, Oyster, Shore Crab, and Sand Worm (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
662.0	Royal Palms	RCM	11/25/96	ND	ND	2.5	ND	3.0	ND	2.1	ND	7.5	ND	ND
664.0	Cabrillo Beach	RCM	01/18/96	ND	ND	3.8	ND	4.1	ND	2.4	ND	10.3	ND	ND
708.0	Anaheim Bay/Navy Marsh	TCM	01/27/97	ND	1.4	15.3	1.1	10.8	7.7	14.7	ND	51.0	9.2	ND
713.0	Huntington Harbour/Edinger Street	TCM	01/17/96	ND	2.5	35.6	1.8	34.5	16.4	32.6	1.2	124.6	5.4	ND
713.0	Huntington Harbour/Edinger Street	TCM	01/27/97	ND	1.6	23.7	1.1	20.6	10.1	19.5	1.1	77.7	9.4	ND
715.0	Huntington Harbour/Warner Ave Brdg	TCM	01/17/96	ND	2.0	30.6	1.5	30.5	18.3	30.0	1.4	114.3	4.9	ND
715.0	Huntington Harbour/Warner Ave Brdg	TCM	01/27/97	ND	2.7	24.2	2.3	22.1	13.4	21.1	ND	85.8	14.7	2.4
723.4	Newport Bay/Turning Basin	TCM	01/17/96	ND	ND	19.2	ND	14.1	10.0	16.8	1.9	62.0	ND	ND
724.0	Newport Bay/Highway 1 Bridge	TCM	01/17/96	ND	1.3	25.0	1.1	19.6	13.4	21.1	1.1	82.6	ND	2.3
725.0	Newport Bay/Crows Nest	TCM	01/17/96	ND	1.3	23.0	1.6	15.7	14.2	20.2	2.9	78.9	ND	ND

  

Station Number	Diaz-inon	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dieldrin	Endo-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion
662.0	ND	6.0	18.3	33.8	442.0	ND	4.8	38.0	542.9	ND	2.8	ND	ND	ND	ND	ND	ND
664.0	ND	7.4	26.5	41.6	365.0	ND	8.3	48.4	497.2	ND	2.3	ND	ND	NA	ND	ND	ND
708.0	ND	11.8	25.4	16.9	281.0	4.1	17.0	21.9	378.0	ND	7.7	ND	ND	ND	ND	ND	ND
713.0	ND	34.2	61.2	13.0	260.0	4.6	19.1	16.0	408.1	ND	11.2	ND	ND	NA	ND	ND	ND
713.0	ND	13.0	28.5	5.6	195.0	5.5	42.6	10.7	300.9	ND	12.2	ND	ND	ND	ND	ND	ND
715.0	ND	18.8	39.5	6.1	247.0	ND	6.3	10.1	327.8	ND	8.5	ND	ND	NA	ND	ND	ND
715.0	ND	11.1	20.7	5.2	185.0	4.5	13.7	10.2	250.4	ND	12.6	ND	ND	ND	ND	ND	ND
723.4	ND	7.0	28.7	3.1	186.0	ND	4.0	6.5	235.3	ND	8.4	ND	ND	NA	ND	ND	ND
724.0	ND	17.1	72.3	13.4	514.0	ND	10.8	20.6	648.2	ND	10.5	ND	ND	NA	ND	ND	ND
725.0	ND	13.4	52.0	8.8	413.0	ND	739.0	17.0	1243.2	ND	10.2	ND	ND	NA	ND	ND	ND

  

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene
662.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71.0	128.0	ND	199.0	NA	ND	ND
664.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	77.2	ND	77.2	NA	ND	ND
708.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.6	27.1	175.0	ND	202.1	NA	ND	ND
713.0	ND	ND	ND	ND	1.7	1.9	ND	ND	ND	ND	2.5	ND	194.0	ND	194.0	NA	ND	ND
713.0	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND	3.2	ND	117.0	ND	117.0	NA	ND	ND
715.0	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	2.1	ND	183.0	ND	183.0	NA	ND	ND
715.0	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND	4.5	89.3	197.0	ND	286.3	NA	ND	142.0
723.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	196.0	ND	196.0	NA	ND	ND
724.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.0	ND	165.0	ND	165.0	NA	ND	ND
725.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	140.0	1020.0	ND	1160.0	NA	ND	ND

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel (s = small size)  
 TCM = Transplanted California Mussel (a = archive)

OYS = Oyster (*Crassostrea gigas*)  
 GLY = Sand Worm (*Glycera* spp.)  
 PAC = Shore Crab (*Pachygrapsus crassipes*)

NA = Not Analyzed  
 ND = Not Detected

## APPENDIX N

### State Mussel Watch Program

#### Summary of 1995-97 Data: Organic Chemicals in Mussel, Oyster, Shore Crab, and Sand Worm (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
725.0	Newport Bay/Crows Nest	TCM	01/27/97	ND	1.6	17.9	ND	14.1	13.4	14.6	1.6	63.3	9.3	2.5
726.4	Newport Bay/Rhine Channel/End	TCM	01/17/96	ND	ND	15.7	1.0	10.7	14.2	15.8	1.6	59.0	ND	ND
726.4	Newport Bay/Rhine Channel/End	TCM	01/27/97	ND	ND	16.0	1.2	12.1	10.1	12.6	ND	52.0	9.2	6.5
726.6	Newport Bay/Mariners Drive	TCM	01/27/97	ND	1.7	20.3	1.3	16.3	9.6	18.1	ND	67.4	14.4	9.9
740.0	Dana Point Harbor/Boat Yard	TCM	01/27/97	ND	ND	4.9	ND	4.3	3.1	5.2	ND	17.6	ND	ND
742.0	San Juan Creek	RCM	01/18/96	ND	ND	7.5	ND	6.9	3.8	9.4	ND	27.6	ND	ND
750.0	Oceanside	RCM	01/18/96	ND	ND	7.7	ND	9.5	ND	8.8	ND	25.9	ND	ND
750.0	Oceanside	RCM	09/30/96	ND	ND	2.1	ND	1.6	ND	2.4	ND	6.1	ND	ND
882.7	San Diego Bay/Sampson Street Pier	TCM	01/18/96	ND	ND	5.1	ND	5.3	6.2	5.5	ND	22.1	ND	ND
883.1	San Diego Bay/Chollas Creek	TCM	01/18/96	ND	ND	9.8	ND	11.5	9.5	12.1	ND	42.8	ND	ND

  

Station Number	Diaz-inon	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dieldrin	Endo-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion
725.0	ND	12.7	42.8	7.3	384.0	6.9	24.6	16.1	494.4	ND	17.3	ND	ND	ND	ND	ND	ND
726.4	ND	8.2	33.2	ND	284.0	ND	4.6	ND	330.0	ND	10.1	ND	ND	NA	ND	ND	ND
726.4	ND	9.0	31.5	4.3	259.0	6.2	35.9	9.6	355.6	ND	16.1	ND	ND	ND	ND	ND	ND
726.6	63.2	16.6	55.2	7.7	319.0	15.5	66.7	13.7	494.4	ND	18.2	ND	ND	ND	ND	ND	ND
740.0	ND	ND	ND	ND	37.5	ND	4.4	ND	41.9	ND	2.4	7.6	ND	ND	7.6	ND	ND
742.0	ND	ND	6.4	ND	52.1	ND	4.6	ND	63.1	ND	ND	ND	ND	NA	ND	ND	ND
750.0	ND	9.2	26.1	6.1	159.0	ND	8.9	8.9	218.2	ND	4.6	ND	ND	ND	ND	ND	ND
750.0	ND	ND	4.0	ND	49.0	ND	ND	ND	53.0	ND	2.4	ND	ND	ND	ND	ND	ND
882.7	ND	ND	4.3	ND	21.5	ND	8.3	ND	34.2	ND	1.9	ND	ND	NA	ND	ND	ND
883.1	ND	ND	6.0	ND	22.2	ND	4.0	ND	32.2	ND	2.0	ND	ND	NA	ND	ND	ND

  

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene
725.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.9	188.0	864.0	18.7	1070.7	NA	ND	189.0
726.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	111.0	1010.0	ND	1121.0	NA	ND	ND
726.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.9	99.0	488.0	10.9	597.9	NA	ND	245.0
726.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46.0	ND	104.0	ND	104.0	NA	ND	319.0
740.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1	ND	57.3	ND	57.3	NA	ND	ND
742.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.3	ND	41.3	NA	ND	ND
750.0	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.0	ND	23.0	NA	ND	ND
750.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
882.7	ND	4.7	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	819.0	ND	819.0	NA	ND	ND
883.1	ND	9.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	365.0	ND	365.0	NA	ND	ND

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel (s = small size)  
 TCM = Transplanted California Mussel (a = archive)

OYS = Oyster (*Crassostrea gigas*)  
 GLY = Sand Worm (*Glycera* spp.)  
 PAC = Shore Crab (*Pachygrapsus crassipes*)

NA = Not Analyzed  
 ND = Not Detected



## APPENDIX N

### State Mussel Watch Program

#### Summary of 1995-97 Data: Organic Chemicals in Mussel, Oyster, Shore Crab, and Sand Worm (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
883.1	San Diego Bay/Chollas Creek	TCM	01/28/97	ND	1.4	21.3	1.1	19.1	10.9	15.0	ND	68.8	ND	2.4
883.2	San Diego Bay/Chollas Creek/Mouth	TCM	01/28/97	ND	1.3	14.6	ND	11.5	9.2	11.0	ND	47.6	ND	ND
883.3	San Diego Bay/Chollas Creek/End	TCM	01/28/97	ND	3.4	34.3	2.2	28.0	16.3	28.5	1.1	113.8	8.5	ND
883.5	San Diego Bay/Tuna Docks	TCM	01/28/97	ND	ND	13.0	ND	10.8	9.8	7.8	ND	41.4	4.3	ND
883.6	San Diego Bay/7th Street Channel	TCM	01/18/96	ND	ND	8.6	ND	9.2	1.0	13.4	ND	32.3	ND	ND
883.6	San Diego Bay/7th Street Channel	TCM	01/28/97	ND	1.0	11.5	ND	11.0	6.8	7.2	ND	37.5	ND	2.2
883.8	San Diego Bay/Switzer Creek	TCM	01/18/96	ND	ND	9.4	ND	8.2	7.3	9.1	ND	34.0	ND	ND
883.8	San Diego Bay/Switzer Creek	TCM	01/28/97	ND	2.3	18.5	4.6	17.5	7.7	10.1	ND	60.7	4.4	3.0
885.1	San Diego Bay/Paleta Creek/End	TCM	01/28/97	ND	3.0	21.1	2.5	20.4	12.4	20.6	ND	80.0	ND	ND
885.3	San Diego Bay/7th Street Ch/Mid	TCM	01/28/97	ND	3.0	18.6	1.2	18.5	11.6	16.0	ND	68.9	ND	ND

  

Station Number	Diaz-inon	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dieldrin	Endo-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion
883.1	ND	ND	6.4	ND	28.2	ND	11.6	ND	46.2	ND	7.7	ND	ND	ND	ND	ND	ND
883.2	ND	ND	6.7	ND	35.3	ND	8.8	ND	50.8	ND	4.8	ND	ND	ND	ND	ND	ND
883.3	ND	ND	9.1	ND	35.2	4.1	21.2	ND	69.6	ND	12.2	ND	ND	ND	ND	ND	ND
883.5	ND	ND	8.1	ND	30.4	ND	8.5	ND	47.0	ND	3.8	ND	ND	ND	ND	ND	ND
883.6	ND	5.9	12.5	ND	51.7	ND	7.6	ND	77.7	ND	ND	ND	ND	NA	ND	ND	ND
883.6	ND	ND	6.0	ND	19.3	ND	6.5	ND	31.8	ND	4.2	ND	ND	ND	ND	ND	ND
883.8	ND	ND	4.6	ND	25.6	ND	ND	ND	30.2	ND	2.4	ND	ND	NA	ND	ND	ND
883.8	ND	ND	5.3	ND	16.2	ND	11.0	ND	32.5	ND	6.6	ND	ND	ND	ND	ND	ND
885.1	ND	11.7	24.7	ND	54.3	4.2	11.9	ND	106.8	ND	6.8	ND	ND	ND	ND	ND	ND
885.3	ND	10.3	17.8	ND	62.7	ND	9.2	5.6	105.6	ND	7.0	ND	ND	ND	ND	ND	ND

  

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene
883.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND	288.0	12.9	300.9	NA	ND	ND
883.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	76.4	495.0	27.9	599.3	NA	ND	ND
883.3	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	138.0	365.0	14.5	517.5	NA	ND	ND
883.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.7	50.0	460.0	43.1	553.1	NA	ND	ND
883.6	ND	6.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	690.0	ND	690.0	NA	ND	ND
883.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	ND	396.0	36.2	432.2	NA	ND	ND
883.8	ND	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	280.0	ND	280.0	NA	ND	ND
883.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2	93.8	272.0	19.5	385.3	NA	ND	ND
885.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.1	198.0	681.0	39.1	918.1	NA	ND	ND
885.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.0	166.0	647.0	10.4	823.4	NA	ND	ND

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel (s = small size)  
 TCM = Transplanted California Mussel (a = archive)

OYS = Oyster (*Crassostrea gigas*)  
 GLY = Sand Worm (*Glycera* spp.)  
 PAC = Shore Crab (*Pachygrapsus crassipes*)

NA = Not Analyzed  
 ND = Not Detected

## APPENDIX N

### State Mussel Watch Program

#### Summary of 1995-97 Data: Organic Chemicals in Mussel, Oyster, Shore Crab, and Sand Worm (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
886.0	San Diego Bay/NASSCO	TCM	01/18/96	ND	ND	8.9	ND	6.9	7.2	8.1	ND	31.0	ND	ND
888.0	San Diego Bay/Coronado Bridge	RBM	01/28/97	ND	ND	9.0	ND	7.6	6.6	8.5	ND	31.6	ND	2.5
893.0	San Diego Bay/Laurel Street	TCM	01/18/96	ND	ND	17.0	ND	16.5	11.0	15.4	ND	59.9	ND	ND
893.5	San Diego Bay/B Street Pier	TCM	01/18/96	ND	ND	8.8	ND	7.0	6.1	6.7	ND	28.6	ND	ND
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	01/28/97	ND	3.5	22.8	7.1	20.6	7.2	13.4	ND	74.6	ND	3.4

  

Station Number	Diaz-inon	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dieldrin	Endo-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion
886.0	ND	ND	6.4	ND	27.0	ND	5.6	ND	39.0	ND	2.8	ND	ND	NA	ND	ND	ND
888.0	ND	ND	5.8	ND	26.3	ND	8.9	ND	41.0	ND	2.0	ND	ND	ND	ND	ND	ND
893.0	ND	ND	8.8	ND	30.4	ND	6.0	ND	45.2	ND	2.2	ND	ND	NA	ND	ND	ND
893.5	ND	ND	8.4	ND	34.2	ND	5.2	ND	47.8	ND	4.5	ND	ND	NA	ND	ND	ND
894.0	ND	59.0	185.0	ND	29.7	12.2	5.4	7.9	299.2	ND	5.6	ND	ND	ND	ND	ND	ND

  

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene
886.0	ND	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	472.0	ND	472.0	NA	ND	ND
888.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.2	147.0	423.0	17.1	587.1	NA	ND	ND
893.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.9	119.0	799.0	ND	918.0	NA	ND	ND
893.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	428.0	ND	428.0	NA	ND	ND
894.0	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	21.6	45300.0	8730.0	338.0	54368.0	NA	ND	ND

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel (s = small size)  
 TCM = Transplanted California Mussel (a = archive)

OYS = Oyster (Crassostrea gigas)  
 GLY = Sand Worm (Glycera spp.)  
 PAC = Shore Crab (Pachygrapsus crassipes)

NA = Not Analyzed  
 ND = Not Detected