

APPENDIX J

**Summary of 1987-93 Data
Trace Elements Exceeding the
Median International Standards (MIS)
(ppm, wet weight)**

APPENDIX J

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements Exceeding the Median International Standards (MIS)

(ppm, wet weight)

Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
2.0	Crescent City/STP Outfall	RCM	02/12/88			1.0				
2.0	Crescent City/STP Outfall	RCM	02/27/90			4.2				
3.0	Crescent City/Control	RCM	02/27/90		1.1	9.1				
10.0	Trinidad Head	RCM	09/08/87		1.3					
10.0	Trinidad Head	RCM	09/20/88		1.1					
10.0	Trinidad Head	RCM	09/28/89		1.3					
10.0	Trinidad Head	RCM	09/18/90	1.6	1.1					
10.0	Trinidad Head	RCM	10/08/91		1.5				0.44	
10.0	Trinidad Head	RCM	10/22/92		1.5					
101.0	Samoa Bridge/West	TCM	02/27/91			6.8				
103.0	Eureka Channel	TCM	02/17/93			2.2				
103.3	E Street	TCM	02/25/92		1.1					
103.7	Eda Dock	TCM	02/25/92		1.0					
104.0	Eureka STP/Outfall	TCM	02/11/88			1.1				
104.0	Eureka STP/Outfall	TCM	02/27/91		1.0	9.6				
104.5	Eureka STP/Control	TCM	02/27/91			5.9				
104.5	Eureka STP/Control	TCM	02/17/93			1.5				
106.0	Fields Landing	TCM	02/25/92		1.1					
155.1	Lake Pillsbury 1	TFC	03/31/93			2.3				
155.3	Lake Pillsbury 2	TFC	03/31/93			1.1				
159.0	Russian River West Fork	TFC	03/20/90			3.1			0.39	
159.0	Russian River West Fork	TFC	01/29/91			1.2				
159.0	Russian River West Fork	TFC	03/06/92			2.0			0.45	
159.0	Russian River West Fork	TFC	03/30/93			2.1				
160.0	Lake Mendocino	RFC	11/30/89	2.2					0.33	
165.0	Russian River Below Ukiah	TFC	03/20/90			1.8			0.37	
165.0	Russian River Below Ukiah	TFC	03/06/92			1.7				
175.0	Big Sulfur Creek	TFC	03/21/90			4.8	24.3			
175.0	Big Sulfur Creek	TFC	01/29/91		1.0	7.3	42.0			79.0
176.0	Lake Sonoma	TFC	03/30/93			2.2				
190.0	Estero Americano	RCM	12/05/88		2.2					
190.0	Estero Americano	RCM	02/06/90	1.7	1.5				0.40	
190.0	Estero Americano	RCM	01/29/91	1.4	2.6					
190.0	Estero Americano	RCM	03/05/92		1.4				0.51	
202.0	Bodega Head	RCM	08/14/87		1.4				0.47	
202.0	Bodega Head	RCM	08/24/88	2.0	1.9				0.50	
202.0	Bodega Head	RCM	08/28/89	1.8	1.8				0.36	
202.0	Bodega Head	RCM	11/14/89	2.2	1.3				0.45	
202.0	Bodega Head	RCM	08/22/90	1.4	1.8					
202.0	Bodega Head	RCM	08/28/91		1.9				0.37	

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Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
202.0	Bodega Head	RCM	09/01/92	2.5	2.0				0.35	
203.0	Tomaes Bay	RBM	01/29/91						0.36	
203.0	Tomaes Bay	RBM	12/30/91						0.59	
204.0	Estero De San Antonio	TCM	02/26/93		1.1	2.5				
205.0	Bodega Harbor/Spud Point Marina	TCM	01/29/91		1.3					
205.0	Bodega Harbor/Spud Point Marina	TCM	01/10/92		1.6				0.55	
205.0	Bodega Harbor/Spud Point Marina	TCM	03/02/93		1.3	1.1				
207.0	Point Reyes	RCM	01/29/91		2.6					
280.0	Russian River/S Goat Rock	RCM	12/29/87		1.2					
280.0	Russian River/S Goat Rock	RCM	12/05/88		2.3					
280.0	Russian River/S Goat Rock	TCM	02/25/93			2.2				
290.0	Russian River/near Moscow	TFC	02/08/88		1.8	5.4				
290.0	Russian River/near Moscow	TFC	03/30/93			1.6				
294.1	Mark West Creek/Slusser Road	TFC	04/07/92						0.34	
294.2	Windsor Creek/Mark West Station Rd	TFC	04/07/92						0.30	
294.5	Green Valley Creek 1	TFC	03/30/93			2.3				
294.6	Green Valley Creek 2	TFC	03/30/93			2.0				
295.1	Santa Rosa Fl Con Ch/Willowside Rd	TFC	12/05/88						0.36	
295.1	Santa Rosa Fl Con Ch/Willowside Rd	TFC	03/20/90			1.1				
295.2	Laguna de Santa Rosa/Stony Point	TFC	12/05/88						0.30	
295.2	Laguna de Santa Rosa/Stony Point	TFC	03/20/90			1.2			0.38	
295.2	Laguna De Santa Rosa/Stony Point	TFC	04/07/92			1.5			0.41	
295.3	Mark West Creek/Wholer Road	TFC	12/05/88		1.0				0.46	
295.3	Mark West Creek/Wholer Road	TFC	03/20/90			1.4				
295.3	Mark West Creek/Wholer Road	TFC	04/07/92			1.7			0.32	
295.4	Russian River/Wholer Bridge	TFC	12/05/88						0.36	
295.4	Russian River/Wholer Bridge	TFC	03/20/90			1.3			0.35	
295.4	Russian River/Wholer Bridge	TFC	04/07/92						0.36	
295.5	Russian River/Hacienda Bridge	TFC	12/05/88						0.48	
295.5	Russian River/Hacienda Bridge	TFC	03/20/90			1.6			0.41	
295.5	Russian River/Hacienda Bridge	TFC	04/07/92			1.1			0.32	
298.0	Brannan Island	RFC	12/29/87			1.2			0.36	
298.0	Brannan Island	RFC	12/29/88			1.6			0.50	
299.1	Selby Slag 4	TCM	01/14/88		1.8					
299.4	Selby Slag 7	TCM	01/14/88		1.0					
300.2	Mare Island	TCM	01/14/88						0.35	
300.2	Mare Island	TCM	12/30/88						0.38	
301.4	Union Oil Outfall	TCM	01/28/88		1.2				1.93	
301.4	Union Oil Outfall	TCM	12/30/88		1.4				3.10	
302.0	Point Pinole	TCM	01/14/88		1.3				0.41	

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302.0	Point Pinole	TCM	12/30/88		1.2				0.54	
302.0	Point Pinole	TCM	02/09/90		1.6					
302.0	Point Pinole	TCM	01/16/91		1.4				0.37	
302.0	Point Pinole	TCM	12/27/91		1.3				0.56	
302.0	Point Pinole	TCM	01/20/93		2.0				0.50	
302.4	Castro Cove Bridge	TCM	01/18/88		1.0				0.56	
302.4	Castro Cove Bridge	TCM	12/29/88		1.1				0.78	
303.1	Santa Fe Channel/Mouth	TCM	03/22/91		1.4	4.7			0.33	
303.3	Lauritzen Canal/End	TCM	03/22/91		1.8	1.3				
303.4	Santa Fe Channel/End	TCM	03/22/91		1.0				0.30	
303.6	Richmond Inner Harbor Basin	TCM	01/14/88		1.0					
304.4	Serl Intake	TCM	03/22/91		1.2	4.7			0.47	
304.6	Point Isabel	TCM	01/14/88		1.1					
306.0	San Francisco Bay/Fort Baker	TCM	01/30/91		1.1				0.53	
306.0	San Francisco Bay/Fort Baker	TCM	12/17/91		1.4				0.90	
306.0	San Francisco Bay/Fort Baker	TCM	01/20/93	1.5					0.82	
306.5	Alcatraz Island	TCM	01/05/89		1.1					
307.0	San Francisco Bay/Treasure Is	TCM	01/14/88		1.3				0.86	
307.0	San Francisco Bay/Treasure Is	TCM	12/30/88						0.98	
307.0	San Francisco Bay/Treasure Is	TCM	02/09/90		1.3					
307.0	San Francisco Bay/Treasure Is	TCM	01/16/91	1.6	1.4				0.61	
307.0	San Francisco Bay/Treasure Is	TCM	12/17/91		1.3				0.76	
307.0	San Francisco Bay/Treasure Is	TCM	02/01/93	1.4	1.7				0.73	
307.2	Alameda Yacht Harbor	TCM	01/14/88		1.8					
307.2	Alameda Yacht Harbor	TCM	12/30/88		1.2					
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	01/14/88		1.7			4.1		
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	12/30/88		1.1					
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	01/30/91		1.5					
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	12/17/91		1.6					
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	01/20/93	1.5	1.8				0.38	
307.5	Lake Merritt	RCM	03/16/93					2.0		
307.6	Oakland Back Harbor	TCM	01/14/88		1.3					
307.8	San Francisco Outfall	TCM	12/29/88		1.2					
307.9	San Francisco/Islais Channel	TCM	01/15/88		1.0					
308.0	San Francisco Bay/Hunter's Point	TCM	01/16/91	1.4	1.2				0.37	
308.0	San Francisco Bay/Hunter's Point	TCM	12/16/91		1.3				0.56	
308.0	San Francisco Bay/Hunter's Point	TCM	02/01/93		1.6					
308.2	Hunter's Point/Shipyard	TCM	01/15/88		1.0					
308.2	Hunter's Point/Shipyard	TCM	12/29/88		1.2					
309.0	San Mateo Bridge/8B	TCM	02/09/90		1.3					

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309.0	San Mateo Bridge/8B	TCM	01/16/91		1.5					
309.0	San Mateo Bridge/8B	TCM	12/16/91		1.4				0.47	
309.0	San Mateo Bridge/8B	TCM	02/01/93		1.8					
313.0	San Francisco Bay/near Redwood Cr	TCM	01/16/91		1.4	1.8				
313.0	San Francisco Bay/Near Redwood Cr	TCM	12/16/91		1.4				0.42	
313.0	San Francisco Bay/near Redwood Cr	TCM	02/01/93		1.5					
321.0	Dumbarton Bridge/Channel Marker 14	TCM	01/15/88		1.3					
321.0	Dumbarton Bridge/Channel Marker 14	TCM	12/29/88		1.2					
321.0	Dumbarton Bridge/Channel Marker 14	TCM	01/16/91		1.5					
321.0	Dumbarton Bridge/Channel Marker 14	TCM	12/16/91		1.5				0.42	
323.3	Palo Alto Outfall	TCM	12/29/88		1.3					
323.3	Palo Alto Outfall	TCM	02/09/90		1.1					
326.0	Palo Alto/Channel Marker 8	TCM	01/16/91		1.3				0.37	
326.0	Palo Alto/Channel Marker 8	TCM	12/16/91		1.3				0.39	
326.0	Palo Alto/Channel Marker 8	TCM	02/01/93		1.3				1.20	
336.0	J. Fitzgerald	RCM	01/30/91	1.6	1.4					
399.7	San Lorenzo River/Felton	TFC	02/16/91			2.6				
400.2	Younger Lagoon	TCM	02/25/93		1.6					
400.8	Aptos Creek	TFC	01/31/90			1.1			0.38	
400.8	Aptos Creek	TFC	12/19/91			3.2				
401.1	Santa Cruz/T Dock	TCM	02/08/89		1.7		23.7			94.8
402.1	Azevedo Pond	TCM	02/25/93		1.7	3.2				
402.2	Parson's Slough	TCM	02/25/93		1.8	1.9				
402.5	Elkhorn Slough/Tidal Pond	TCM	02/25/93		1.1	1.1				
403.5	Moss Landing/South Harbor	TCM	01/04/89		1.4					
404.0	Sandholdt Bridge	TCM	01/04/89		1.3					
404.0	Sandholdt Bridge	RBM	02/27/89		1.3					
404.0	Sandholdt Bridge	RBM	04/06/89		1.0					
404.0	Sandholdt Bridge	TCM	02/04/91		1.1					
404.0	Sandholdt Bridge	TCM	01/28/92		1.1				0.47	
404.0	Sandholdt Bridge	TCM	02/01/93	1.8					0.55	
405.2	Old Salinas River 2	TFC	03/16/92		1.2					
405.7	Salinas River Lag 2	TFC	03/16/92			1.5				
414.0	Pacific Grove	RCM	01/09/89	2.2	1.4				0.44	
414.0	Pacific Grove	RCM	02/08/90	2.9	1.4				0.39	
414.0	Pacific Grove	RCM	02/14/91	2.4	1.4					
414.0	Pacific Grove	RCM	01/31/92	1.6	2.0				0.35	
414.0	Pacific Grove	RCM	02/12/93	2.4	1.5				0.38	
421.7	Monterey Harbor/Marina	TCM	01/22/88		1.3			2.6		94.6
421.7	Monterey Harbor/Marina	TCM	04/05/89		1.0		20.3			155.9

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423.1	Carmel Bay/New Control	RCM	05/25/92	2.2	1.7				0.37	
423.2	Carmel STP/Control	TCM	04/13/89		2.5					
423.3	Carmel River	TCM	04/13/89		1.6					
423.4	Carmel STP/10m North	TCM	04/13/89		1.8					
423.5	Carmel STP/30m South	TCM	02/01/91		1.3				0.31	
423.5	Carmel STP/30m South	TCM	05/14/92	1.7	1.7				0.65	
423.6	Carmel STP/10m South	TCM	01/22/88		1.7					
423.6	Carmel STP/10m South	TCM	04/13/89		1.8					
423.7	Carmel STP/100m South	TCM	02/01/91	1.6	1.9				0.38	
423.7	Carmel STP/100m South	TCM	05/14/92	1.7	1.7				0.60	
423.9	Carmel STP/300m South	TCM	02/01/91	1.7	1.5				0.36	
423.9	Carmel STP/300m South	TCM	05/14/92	1.9	1.7				0.70	
425.4	Lake San Antonio/Buoy	TFC	12/08/87		1.4					
425.6	Lake San Antonio	RFC	10/28/87		1.7					
425.6	Lake San Antonio	RFC	09/14/88						0.47	
425.6	Lake San Antonio	RFC	08/15/89		2.5				1.08	
425.6	Lake San Antonio	TFC	05/25/92			1.0			0.44	
426.5	Cayucos Pier	TCM	09/24/87	2.0	1.1					
426.5	Cayucos Pier	TCM	12/14/87	1.9						
426.5	Cayucos Pier	TCM	09/25/88	2.3	1.0					
426.5	Cayucos Pier	TCM	12/20/88	2.1						
426.5	Cayucos Pier	TCM	02/28/89	2.0						
426.5	Cayucos Pier	TCM	09/27/89	2.2	1.8					
426.5	Cayucos Pier	TCM	12/12/89	2.2	1.3					
426.5	Cayucos Pier	TCM	03/05/90	1.8	1.0					
426.5	Cayucos Pier	TCM	09/03/90		2.3					
426.5	Cayucos Pier	TCM	11/14/90		1.0					
426.5	Cayucos Pier	TCM	02/25/91	1.9		7.5			0.35	
428.0	Cayucos	RCM	09/27/89		1.1					
428.0	Cayucos	RCM	09/03/90		1.0					
428.0	Cayucos	RCM	02/25/91			7.9				
429.2	Morro Bay/Boat Works	RBM	03/14/88		1.2					
429.2	Morro Bay/Boat Works	TCM	12/19/88		1.2					
429.2	Morro Bay/Boat Works	TCM	02/02/90		1.0					
429.2	Morro Bay/Boat Works	TCM	01/20/93		1.7	1.5				
430.0	Montana De Oro	RCM	09/24/87	2.1	1.1					
430.0	Montana De Oro	RCM	12/14/87	1.7						
430.0	Montana De Oro	RCM	03/14/88	1.6						
430.0	Montana De Oro	RCM	09/26/88	2.2	1.2					
430.0	Montana De Oro	RCM	12/20/88	1.9	1.1					

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430.0	Montana De Oro	RCM	02/28/89	2.1						
430.0	Montana De Oro	RCM	09/27/89	2.3	2.0					
430.0	Montana De Oro	RCM	12/12/89	1.9	1.3					
430.0	Montana De Oro	RCM	03/05/90	1.7	1.1					
430.0	Montana De Oro	RCM	04/03/90	2.1						
430.0	Montana De Oro	RCM	09/03/90	1.7	1.3					
430.0	Montana De Oro	RCM	11/14/90	1.9						
430.0	Montana De Oro	RCM	02/25/91	1.5		6.8				
430.0	Montana De Oro	RCM	09/09/91	1.4					0.34	
430.0	Montana De Oro	RCM	12/03/91	1.4					0.45	
430.0	Montana De Oro	RCM	02/25/92	1.8	1.5				0.51	
430.2	Montana De Oro 1	TCM	11/14/90	1.7	1.0					
430.2	Montana De Oro 1	TCM	09/10/91	1.4						
430.2	Montana De Oro 1	TCM	12/04/91	1.4					0.43	
430.4	Montana De Oro 2	TCM	11/14/90	1.7						
430.4	Montana De Oro 2	TCM	09/10/91	1.6						
431.0	Lion Rock	RCM	10/05/87		1.7					
431.0	Lion Rock	RCM	03/15/88		1.0					
431.0	Lion Rock	RCM	09/26/88		2.1					
431.0	Lion Rock	RCM	03/01/89		1.3					
431.0	Lion Rock	RCM	09/28/89		2.1					
431.0	Lion Rock	RCM	03/06/90		1.5					
432.0	Pup Rock	RCM	10/05/87		1.6					
432.0	Pup Rock	RCM	03/15/88		1.0					
432.0	Pup Rock	RCM	09/26/88		1.9					
432.0	Pup Rock	RCM	03/01/89		1.4					
432.0	Pup Rock	RCM	09/28/89		2.4					
432.0	Pup Rock	RCM	03/06/90		1.5					
433.0	Diablo Cove/North	RCM	09/25/87	2.1	1.3					
433.0	Diablo Cove/North	RCM	03/15/88	1.5						
433.0	Diablo Cove/North	RCM	09/26/88	2.1	2.0					
433.0	Diablo Cove/North	RCM	03/01/89	1.8						
433.0	Diablo Cove/North	RCM	09/28/89	1.6	2.0					
433.0	Diablo Cove/North	RCM	03/06/90	1.8	1.3					
433.0	Diablo Cove/North	RCM	09/04/90		2.0					
433.0	Diablo Cove/North	RCM	02/26/91		1.4					
433.0	Diablo Cove/North	RCM	09/09/91		2.1					
434.0	Diablo Cove/South	RCM	09/25/87	1.8	1.2					
434.0	Diablo Cove/South	RCM	03/15/88	1.4	1.3					
434.0	Diablo Cove/South	RCM	09/26/88	1.9	1.9					

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State Mussel Watch Program

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(ppm, wet weight)

Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
434.0	Diablo Cove/South	RCM	03/01/89	1.7	1.6					
434.0	Diablo Cove/South	RCM	09/28/89	1.9	2.5					
434.0	Diablo Cove/South	RCM	03/06/90	1.7	1.5					
434.0	Diablo Cove/South	RCM	09/04/90	1.8	1.8					
434.0	Diablo Cove/South	RCM	02/26/91	1.5	1.6	1.1				
434.0	Diablo Cove/South	RCM	09/09/91	1.5	2.0					
434.0	Diablo Cove/South	RCM	02/26/92						0.41	
435.0	Intake Cove	RCM	09/25/87	1.5	1.5					
435.0	Intake Cove	RCM	03/15/88		1.1					
435.0	Intake Cove	RCM	09/26/88	1.9	2.4					
435.0	Intake Cove	RCM	03/01/89	1.6	1.3					
435.0	Intake Cove	RCM	09/28/89	2.0	3.0					
435.0	Intake Cove	RCM	03/06/90	1.7	1.4					
435.0	Intake Cove	RCM	09/04/90		2.2					
435.0	Intake Cove	RCM	02/26/91		1.5	2.5				
435.0	Intake Cove	RCM	09/09/91		2.3					
435.0	Intake Cove	RCM	02/26/92		1.1					
436.0	Pecho Rock	RCM	10/05/87		1.2					
436.0	Pecho Rock	RCM	03/15/88		1.0					
436.0	Pecho Rock	RCM	09/26/88		1.8					
436.0	Pecho Rock	RCM	03/01/89		1.1					
436.0	Pecho Rock	RCM	09/28/89		3.1					
436.0	Pecho Rock	RCM	03/06/90		1.1					
437.0	Point San Luis	RCM	09/24/87		1.0					
437.0	Point San Luis	RCM	09/25/88		1.2					
437.0	Point San Luis	RCM	09/27/89		1.7					
437.0	Point San Luis	RCM	03/05/90		1.0					
437.0	Point San Luis	RCM	09/03/90		1.5					
437.0	Point San Luis	RCM	02/25/91		1.1	1.5				
437.0	Point San Luis	RCM	09/09/91		1.0					
437.0	Point San Luis	RCM	02/26/92		1.0					
438.0	Avila	RCM	09/24/87		1.4					
438.0	Avila	RCM	09/27/89		1.5					
438.0	Avila	RCM	09/03/90		1.4					
438.0	Avila	RCM	02/25/91		1.3					
440.0	Lion Rock/Transplant	TCM	09/25/87	1.9	1.2					
440.0	Lion Rock/Transplant	TCM	12/15/87	1.7						
440.0	Lion Rock/Transplant	TCM	09/26/88	2.1	2.1					
440.0	Lion Rock/Transplant	TCM	12/20/88	1.9						
440.0	Lion Rock/Transplant	TCM	03/01/89	2.2						

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APPENDIX J (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements Exceeding the Median International Standards (MIS)
(ppm, wet weight)

Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
440.0	Lion Rock/Transplant	TCM	09/28/89	2.1	2.8					
440.0	Lion Rock/Transplant	TCM	12/13/89	2.2	1.2					
440.0	Lion Rock/Transplant	TCM	03/06/90	1.9						
440.0	Lion Rock/Transplant	TCM	09/04/90		2.4					
440.0	Lion Rock/Transplant	TCM	11/15/90		1.0					
440.0	Lion Rock/Transplant	TCM	02/26/91			2.5				
440.0	Lion Rock/Transplant	TCM	09/10/91		1.3					
441.0	Lion/Diablo/Transplant	TCM	10/05/87		1.1					
441.0	Lion/Diablo/Transplant	TCM	03/01/89		1.0					
441.0	Lion/Diablo/Transplant	TCM	09/28/89		1.8					
441.0	Lion/Diablo/Transplant	TCM	12/13/89		1.1					
441.0	Lion/Diablo/Transplant	TCM	09/04/90		2.2					
441.0	Lion/Diablo/Transplant	TCM	11/15/90		1.0					
441.0	Lion/Diablo/Transplant	TCM	09/10/91		1.4					
442.0	Diablo Cove/North/Transplant	TCM	10/05/87		1.8					
442.0	Diablo Cove/North/Transplant	TCM	12/15/87		1.5					
442.0	Diablo Cove/North/Transplant	TCM	03/15/88		1.5					
442.0	Diablo Cove/North/Transplant	TCM	09/26/88		1.7	1.6				
442.0	Diablo Cove/North/Transplant	TCM	12/20/88		1.9					
442.0	Diablo Cove/North/Transplant	TCM	03/01/89		1.9					
442.0	Diablo Cove/North/Transplant	TCM	09/28/89		2.0	2.9				
442.0	Diablo Cove/North/Transplant	TCM	12/13/89		2.1	1.1				
442.0	Diablo Cove/North/Transplant	TCM	03/06/90		1.9					
442.0	Diablo Cove/North/Transplant	TCM	09/04/90		2.3					
442.0	Diablo Cove/North/Transplant	TCM	02/26/91		1.0	1.4				
442.0	Diablo Cove/North/Transplant	TCM	09/10/91		1.3					
442.1	Diablo Cove/N/Transplant/Shallow	TCM	02/26/91			1.5				
442.1	Diablo Cove/N/Transplant/Shallow	TCM	09/10/91	1.4						
443.0	Diablo Cove/South/Transplant	TCM	10/05/87	2.1						
443.0	Diablo Cove/South/Transplant	TCM	12/15/87	1.5						
443.0	Diablo Cove/South/Transplant	TCM	09/26/88	2.2	2.6					
443.0	Diablo Cove/South/Transplant	TCM	03/01/89	2.0	1.1					
443.0	Diablo Cove/South/Transplant	TCM	09/28/89	2.1	2.5					
443.0	Diablo Cove/South/Transplant	TCM	12/13/89	2.3	1.4					
443.0	Diablo Cove/South/Transplant	TCM	03/06/90	1.8	1.0					
443.0	Diablo Cove/South/Transplant	TCM	11/15/90	1.0						
443.0	Diablo Cove/South/Transplant	TCM	02/26/91	2.1	4.5					
443.0	Diablo Cove/South/Transplant	TCM	09/10/91	1.8	1.5					
443.0	Diablo Cove/South/Transplant	TCM	02/26/92	0.43						
443.1	Diablo Cove/S/Transplant/Shallow	TCM	02/26/91	1.7	2.4					

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APPENDIX J (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements Exceeding the Median International Standards (MIS)
(ppm, wet weight)

Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
443.1	Diablo Cove/S/Transplant/Shallow	TCM	09/10/91	1.6	1.3					
444.0	Intake Cove/Transplant	TCM	09/25/87	2.2						
444.0	Intake Cove/Transplant	TCM	12/15/87	1.5						
444.0	Intake Cove/Transplant	TCM	03/15/88	1.6						
444.0	Intake Cove/Transplant	TCM	09/26/88	2.0						
444.0	Intake Cove/Transplant	TCM	12/20/88	1.7						
444.0	Intake Cove/Transplant	TCM	03/01/89	2.1						
444.0	Intake Cove/Transplant	TCM	09/28/89	2.2	1.3					
444.0	Intake Cove/Transplant	TCM	12/13/89	1.9	1.2					
444.0	Intake Cove/Transplant	TCM	03/06/90	2.1						
444.0	Intake Cove/Transplant	TCM	09/04/90	2.0	1.3					
444.0	Intake Cove/Transplant	TCM	02/26/91	2.0						
444.0	Intake Cove/Transplant	TCM	09/10/91	1.9	1.0					
444.0	Intake Cove/Transplant	TCM	02/26/92	1.5					0.42	
445.0	San Luis Harbor/Transplant	TCM	09/25/87	2.0	1.2					
445.0	San Luis Harbor/Transplant	TCM	03/15/88	1.8						
445.0	San Luis Harbor/Transplant	TCM	09/26/88	2.3	1.3					
445.0	San Luis Harbor/Transplant	TCM	12/20/88	1.8						
445.0	San Luis Harbor/Transplant	TCM	03/01/89	2.7						
445.0	San Luis Harbor/Transplant	TCM	09/28/89	2.0	1.6					
445.0	San Luis Harbor/Transplant	TCM	12/13/89	2.3	1.3					
445.0	San Luis Harbor/Transplant	TCM	03/06/90	2.2						
445.0	San Luis Harbor/Transplant	TCM	09/04/90	2.1	1.9					
445.0	San Luis Harbor/Transplant	TCM	02/25/91	2.3		2.1				
445.0	San Luis Harbor/Transplant	TCM	09/09/91	1.7						
445.0	San Luis Harbor/Transplant	TCM	02/25/92						0.47	
446.0	San Luis Obispo Creek 1	TFC	02/26/91			1.3				
446.1	San Luis Obispo/Creek 2	TFC	04/09/92			1.1				
450.0	Point Conception	RCM	03/20/89		1.2					
455.0	Gaviota	TCM	03/21/89		2.0					
470.0	Santa Barbara Harbor	TCM	01/26/88		1.1			2.5		86.1
470.0	Santa Barbara Harbor	TCM	12/18/88		1.6		20.9			86.9
480.0	Lake Isabella	RFC	02/09/93	1.9		1.5				
485.0	Ventura Marina	TCM	01/25/88		1.1					80.3
506.1	Port Hueneme/Wharf B	TCM	01/25/88		1.0					82.2
507.3	Mugu Lagoon/Calleguas Creek	TCM	12/18/88		1.0					
553.0	Marina Del Rey/Entrance	TCM	12/19/88					3.2		
554.0	Marina Del Rey/Harbor Patrol Docks	TCM	01/25/88		1.4			9.8		142.0
554.0	Marina Del Rey/Harbor Patrol Docks	TCM	12/19/88					4.9		73.8
555.0	Marina Del Rey/Basin G	TCM	01/25/88		1.6		29.4	5.6		150.4

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APPENDIX J (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements Exceeding the Median International Standards (MIS)

(ppm, wet weight)

Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
555.0	Marina Del Rey/Basin G	TCM	12/19/88		1.1			3.1		88.2
555.2	Marina Del Rey/Basin D	TCM	01/25/88		1.9		29.1	5.1		177.9
556.0	Marina Del Rey/Basin E	TCM	01/25/88		1.6			6.0		123.7
556.0	Marina Del Rey/Basin E	TCM	12/19/88		1.0					70.1
559.0	King Harbor	TCM	12/28/87		1.6		27.5	4.9		109.2
601.0	LA Harbor/National Steel	TCM	12/28/87		1.1			3.0		
601.0	LA Harbor/National Steel	TCM	12/19/88		1.2			2.2		
601.0	La Harbor/National Steel	TCM	12/22/91		1.4					
602.5	LA Harbor/Todd Shipyards	TCM	12/28/87		1.3			3.1		79.4
602.6	LA Harbor/Berth 50	TCM	12/22/89				34.5			
602.7	LA Harbor/Pacific Ave/Storm Drain	TCM	12/28/87		1.3			3.0		96.9
602.8	LA Harbor/Berth 49	TCM	12/28/87				40.7	2.7		87.3
602.8	LA Harbor/Berth 49	TCM	12/19/88				48.6			
602.8	LA Harbor/Berth 49	TCM	12/23/90		1.3					
603.0	LA Harbor/Berth 151	TCM	12/28/87					2.3		
603.6	LA Harbor/Slip 240	TCM	12/28/87		1.0			2.4		
606.2	LA Harbor/Fish Harbor	TCM	12/28/87					2.6		
606.3	LA Harbor/Watchorn Basin	TCM	12/28/87		1.1					
616.0	LA Harbor/Consolidated Slip	TCM	12/28/87		1.1			2.7		
616.0	LA Harbor/Consolidated Slip	TCM	12/19/88		1.1			2.0		
616.0	La Harbor/Consolidated Slip	TCM	12/22/91		1.6			2.1		
622.0	LA Harbor/Commer Marine	TCM	12/23/90		1.9		38.0			110.0
648.0	Malibu	RBM	12/26/90			20.0				
650.0	Santa Monica	RBM	12/26/90			8.6				
650.0	Santa Monica	RCM	01/06/93			2.9				
662.0	Royal Palms	RCM	01/05/93			2.3				
681.0	Catalina Island/West	RCM	09/04/91					2.8		
682.0	Catalina Island/Ribbon Rock	RCM	02/01/93			6.5				
707.0	Anaheim Bay/Navy Harbor	TCM	12/22/91		1.0					
708.0	Anaheim Bay/Navy Marsh	TCM	12/23/90			2.4				
708.5	Anaheim Bay/Navy Marsh 2	TCM	12/23/90		1.3					
708.5	Anaheim Bay/Navy Marsh 2	TCM	12/22/91		1.0					
710.2	Anaheim Bay/Fuel Docks/South	TCM	12/30/87					2.7		
713.0	Huntington Harbour/Edinger Street	TCM	12/30/87		1.2			2.8		
713.0	Huntington Harbour/Edinger Street	TCM	12/27/89		1.1					
713.0	Huntington Harbour/Edinger Street	TCM	12/23/90		1.7					
713.0	Huntington Harbour/Edinger Street	TCM	12/22/91		1.5					
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/30/87		1.3			2.4		
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/19/88					3.9	0.40	
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/27/89		1.0			3.4		

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APPENDIX J (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements Exceeding the Median International Standards (MIS)
(ppm, wet weight)

Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/22/91		1.3					
715.0	Huntington Harbour/Warner Ave Brdg	TCM	01/06/93		1.3					
717.0	Huntington Harbour/Harbor Lane	TCM	12/30/87		1.4			2.5		
717.0	Huntington Harbour/Harbor Lane	TCM	12/19/88		1.1			3.0		
717.0	Huntington Harbour/Harbor Lane	TCM	12/22/91		1.0			2.6		
719.1	Santa Ana River/Prado Dam	TFC	04/02/92			1.0			0.44	
719.1	Santa Ana River/Prado Dam	TFC	03/17/93			2.2				
719.8	Temescal Creek/Nichols Road	TFC	04/02/92			1.5				
721.0	Newport Bay/Entrance	TCM	12/21/90		1.2					
723.0	Newport Bay/Bay Island	TCM	12/21/87		1.1					
723.0	Newport Bay/Bay Island	TCM	12/21/90		1.0	1.4				
723.0	Newport Bay/Bay Island	TCM	12/22/91		1.2					
723.4	Newport Bay/Turning Basin	TCM	12/21/87		1.4					
723.4	Newport Bay/Turning Basin	TCM	12/20/88		1.0					
723.4	Newport Bay/Turning Basin	TCM	12/27/89		1.2					
723.4	Newport Bay/Turning Basin	TCM	12/21/90		1.6					71.0
723.4	Newport Bay/Turning Basin	TCM	12/22/91		1.4					
724.0	Newport Bay/Highway 1 Bridge	TCM	12/21/87		1.6					
724.0	Newport Bay/Highway 1 Bridge	TCM	12/21/90		1.4					
724.0	Newport Bay/Highway 1 Bridge	TCM	12/22/91		1.4					
724.0	Newport Bay/Highway 1 Bridge	TCM	01/05/93		1.9					
725.0	Newport Bay/Crows Nest	TCM	12/21/87		1.5					
725.0	Newport Bay/Crows Nest	TCM	12/20/88		1.3					
725.0	Newport Bay/Crows Nest	TCM	12/21/90		1.7					88.0
725.0	Newport Bay/Crows Nest	TCM	12/22/91		1.4			2.1		74.0
725.0	Newport Bay/Crows Nest	TCM	01/05/93		1.5	2.3				76.0
726.0	Newport Bay/Rhine Channel/Upper	TCM	12/21/87		1.5					71.7
726.0	Newport Bay/Rhine Channel/Upper	TCM	12/20/88		1.2					
726.4	Newport Bay/Rhine Channel/End	TCM	12/21/87		1.0					
726.4	Newport Bay/Rhine Channel/End	TCM	12/20/88		1.1					
726.4	Newport Bay/Rhine Channel/End	TCM	12/27/89		1.1					
726.4	Newport Bay/Rhine Channel/End	TCM	12/21/90		1.5	1.1				78.0
726.4	Newport Bay/Rhine Channel/End	TCM	12/22/91		1.1			2.6		70.0
726.4	Newport Bay/Rhine Channel/End	TCM	01/05/93		2.7	1.4				98.0
728.4	Upper Newport Bay/MacArthur	TFC	03/07/88		1.0					
728.4	Upper Newport Bay/MacArthur	TFC	01/23/91		8.4					
728.7	Upper Newport Bay/Drain 4	TFC	03/14/90			2.8	24.0			
728.8	Upper Newport Bay/San Diego Cr 2	TFC	03/07/88		1.3					
728.9	Upper Newport Bay/Drain 5	TFC	03/14/90			1.2				

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APPENDIX J (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements Exceeding the Median International Standards (MIS)

(ppm, wet weight)

Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
740.0	Dana Point Harbor/Boat Yard	TCM	01/05/93		2.4					110.0
744.1	San Onofre 1	TCM	09/27/90	1.5						
744.1	San Onofre 1	TCM	03/12/91	1.6		1.7				
744.1	San Onofre 1	TCM	10/24/91						0.36	
744.1	San Onofre 1	TCM	03/25/92	1.4					0.57	
744.2	San Onofre 2	TCM	11/22/89	1.6					0.43	
744.2	San Onofre 2	TCM	10/01/90	1.7						
744.2	San Onofre 2	TCM	03/12/91	1.6	1.0					
744.2	San Onofre 2	TCM	03/25/92	1.4					0.63	
744.3	San Onofre 3	TCM	11/22/89	1.5					0.49	
744.3	San Onofre 3	TCM	04/04/90	2.1					0.54	
744.3	San Onofre 3	TCM	09/27/90	1.8						
744.3	San Onofre 3	TCM	03/25/92	1.4					0.59	
744.4	San Onofre 4	TCM	01/30/89		1.0					
744.4	San Onofre 4	TCM	11/22/89	1.6					0.56	
744.4	San Onofre 4	TCM	04/04/90	2.0					0.59	
744.4	San Onofre 4	TCM	03/12/91	1.6		1.2				
744.4	San Onofre 4	TCM	10/24/91						0.37	
744.4	San Onofre 4	TCM	03/25/92	1.4					0.53	
744.5	San Onofre 5	TCM	11/22/89	1.7					0.43	
744.5	San Onofre 5	TCM	04/04/90	1.8					0.50	
744.5	San Onofre 5	TCM	10/01/90	1.6						
744.5	San Onofre 5	TCM	03/12/91	2.0	1.0					
744.5	San Onofre 5	TCM	03/25/92	1.4	1.0				0.62	
744.6	San Onofre 6	TCM	11/22/89	1.9					0.63	
744.6	San Onofre 6	TCM	04/04/90	1.7					0.49	
744.6	San Onofre 6	TCM	09/27/90	2.0						
744.6	San Onofre 6	TCM	03/12/91	2.5						
744.6	San Onofre 6	TCM	10/24/91						0.45	
744.6	San Onofre 6	TCM	03/25/92	1.5					0.61	
748.0	Oceanside/Harbor	TCM	12/21/87		1.5					
748.0	Oceanside/Harbor	TCM	01/05/93		1.7	1.3				
748.0	Oceanside/Harbor	TCM	12/21/91		1.4					
750.0	Oceanside	RCM	12/22/90	1.6						
750.0	Oceanside	RCM	12/21/91						0.56	
838.2	Point Loma/Sunset Cliffs	RCM	12/22/90		1.4	1.5		3.5		170.0
868.5	Mission Bay/Landfill 1	TCM	12/21/89		1.0					
868.5	Mission Bay/Landfill 1	TCM	12/22/90			1.7				
871.0	Mission Bay/South Shore/Rock 2	TCM	01/05/93		1.1	5.2				
872.4	Mission Bay/Kendall-Frost Reserve	TCM	01/04/93		1.5	2.0				

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APPENDIX J (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements Exceeding the Median International Standards (MIS)
(ppm, wet weight)

Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
873.5	Mission Bay/Harbor Police	TCM	01/04/93		1.5					
881.3	Sweetwater River/Mouth 1	TCM	01/15/91		1.0					
881.3	Sweetwater River/Mouth 1	TCM	12/21/91		1.6					
881.5	San Diego Bay/Rohr Channel Mouth	TCM	01/05/93		1.6					
882.0	24th St Maritime Terminal/South	TCM	12/22/87		1.0					
882.0	24th St Maritime Terminal/South	TCM	12/21/91		1.3				0.36	
882.2	24th St Maritime Terminal/North	TCM	12/21/89		1.3					
882.2	24th St Maritime Terminal/North	TCM	01/05/93		1.5					
882.5	San Diego Bay/NASSCO Pier 12	TCM	12/22/87		1.1					
882.7	San Diego Bay/Sampson Street Pier	TCM	12/22/87		1.5		22.6			77.7
882.7	San Diego Bay/Sampson Street Pier	TCM	12/21/88		1.3					
882.7	San Diego Bay/Sampson Street Pier	TCM	01/05/93		1.9	1.0				
882.8	San Diego Bay/KELCO Pier	TCM	12/21/88		1.1					
882.8	San Diego Bay/KELCO Pier	TCM	12/21/91		1.2					
882.8	San Diego Bay/KELCO Pier	TCM	12/21/91		2.0				0.30	
882.9	San Diego Bay/Coronado Brdg/East	TCM	12/21/88		1.3					
883.1	San Diego Bay/Chollas Creek	TCM	12/21/88		1.1			2.2		
883.4	San Diego Bay/Continental Maritime	TCM	12/21/88		1.0					
883.4	San Diego Bay/Continental Maritime	TCM	01/05/93		1.8	2.0				
883.5	San Diego Bay/Tuna Docks	TCM	12/21/88		1.1					
883.6	San Diego Bay/7th Street Channel	TCM	12/22/87		1.2			3.4		92.1
883.6	San Diego Bay/7th Street Channel	TCM	12/21/88		1.1			2.6		81.4
883.7	San Diego Bay/Terminal S-10th St	TCM	01/05/93		2.0					
885.2	San Diego Bay/32nd Street	TCM	12/21/88		1.1					
886.2	San Diego Gas&Electric Silvergate	TCM	12/21/88		1.2					
887.0	San Diego Bay/Evans Street	TCM	12/22/90		1.5	1.7				
887.0	San Diego Bay/Evans Street	TCM	12/21/91		1.2					
887.0	San Diego Bay/Evans Street	TCM	01/05/93		1.7					72.0
888.0	San Diego Bay/Coronado Bridge	TCM	12/21/91		1.4					
888.0	San Diego Bay/Coronado Bridge	TCM	01/05/93		1.3	2.3				
891.0	San Diego Bay/G Street Pier	TCM	12/22/87		1.1					
893.0	San Diego Bay/Laurel Street	TCM	01/05/93		1.5	2.6				
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/22/87		1.3	1.4		3.5		
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/21/88		1.4			2.9		
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/21/89		1.2	1.2		2.4		
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/22/90		1.7	22.0		3.0		
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	RBM	12/21/91		1.1	1.3				
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	01/05/93		1.9					
894.3	SD Bay/Harbor Is/E Basin/Mid Chan	TCM	12/21/88		1.1					
894.8	Laurel Street Storm Drain	TCM	12/21/88		1.1					

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State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements Exceeding the Median International Standards (MIS)
(ppm, wet weight)

Station Number	Station Name	Sample Type*	Sample Date	Arsenic (1.4)	Cadmium (1.0)	Chromium (1.0)	Copper (20.0)	Lead (2.0)	Selenium (0.3)	Zinc (70.0)
895.6	San Diego Bay/Grape St Storm Drain	TCM	01/05/93		1.9					
897.5	Commercial Basin/North Harbor Dr	TCM	12/22/87		1.4					109.8
898.0	Commercial Basin/Carlton Street	TCM	12/21/89				20.9			97.2
898.0	Commercial Basin/Carlton Street	TCM	01/05/93		2.1					94.0
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	12/21/91		1.1				0.32	
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	01/05/93		1.5					
899.2	San Diego Bay/Shelter Island	TCM	01/05/93		1.5		24.0			120.0
899.4	San Diego Bay/Shelter Is/Fuel Dock	TCM	12/22/87		1.3					85.9

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