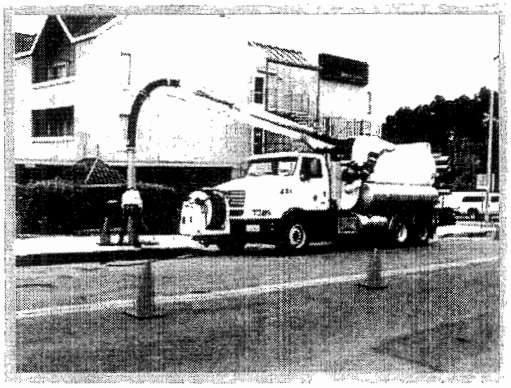
UNIFIED ANNUAL PROGRESS REPORT
PROGRAM EFFECTIVENESS ASSESSMENT
(San Diego Region)

2004-2005 Reporting Period



November 15, 2005

A COOPERATIVE PROJECT OF THE COUNTY OF ORANGE, THE CITIES OF ORANGE COUNTY, AND THE ORANGE COUNTY FLOOD CONTROL DISTRICT

fb W-6000-03

Table C-11.11
Aqueous Chemistry at Mass Emission Sites in the San Diego Region

Site	Composite Time or Time of Field Measurement Begin	End	Samples Type	#	FieldMeasurements EC	pH	TEMP	DO	Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr								Hardness as $CaCO_3$
					µS		C	mg/L	NTU	µS		mg/L							ng/L													
ACJ01	10/17/04 3:01	10/17 4:01	ST	6					20	2530	8	6.6	0.059	1.7	1.66	0.42	81	15	28.9	<5	<5	81.6	3.8	< 8								
ACJ01	10/17/04 3:01	10/17 4:01	SF	6																			1.2	< 8								
ACJ01	10/17/04 4:01	10/18 10:01	ST	16					132	1180	7.3	6.6	0.49	5.2	2.73	0.37	450	70	48.4	<5	<5	265	8.2	1								
ACJ01	10/17/04 4:01	10/18 10:01	SF	16																			< 1	<								
ACJ01	10/18/04 10:01	10/20 8:02	ST	24					37	1580	7.7	5.7	0.28	2	1.54	NR	86	17	80.8	<5	<5	233	1.7	<								
ACJ01	10/18/04 10:01	10/20 8:02	SF	24																			< 1	<								
ACJ01	10/20/04 16:01	10/22 8:01	ST	24					47	1390	7.9	5.7	0.23	1.9	2.18	0.54	110	17	61.5	<5	<5	96.2	2.7	<								
ACJ01	10/20/04 16:01	10/22 8:01	SF	24																			1	<								
ACJ01	10/22/04 8:45				2080	7.48	17.51	7.71																								
ACJ01	1/26/05 19:32	1/26 20:32	ST	6					18	3070	8.3	7	0.06	0.94	0.583	0.106	51	< 10	<5	<5	<5	43.7	11	2								
ACJ01	1/26/05 19:32	1/26 20:32	SF	6																			5.5	-								
ACJ01	1/26/05 22:32	1/27 20:32	ST	12					7.1	2240	8.2	5.7	0.07	0.88	0.43	0.108	13	< 10	<5	<5	<5	102	7.1									
ACJ01	1/26/05 22:32	1/27 20:32	SF	12																			3.9									
ACJ01	1/27/05 22:32	1/28 8:32	ST	6								5.7	0.061	0.76	0.399	0.129			<5	<5	<5	<5	6.2									
ACJ01	1/27/05 22:32	1/28 8:32	SF	6																			4.1									
ACJ01	1/28/05 9:53				3126	8.2	13.3	12																								
ACJ01	1/28/05 10:32	1/29 8:32	ST	12					39	1660	7.9	4.1	0.079	1.1	0.675	0.138	91	14	<5	<5	<5	188	4.8									
ACJ01	1/28/05 10:32	1/29 8:32	SF	12																			1.8									
ACJ01	1/29/05 10:32	1/30 6:32	ST	11					7.1	2270	8.2	4.8	0.056	0.71	0.522	0.144	10	< 10	<5	<5	<5	<5	6.2									
ACJ01	1/29/05 10:32	1/30 6:32	SF	11																			2.4									
ACJ01	2/1/05 11:02				3478	8.23	11.04	13.62																								
ACJ01	4/28/05 5:15	4/28 6:15	ST	6					98.5	1720	7.62	4.8	0.3	1.9	2.41	0.43	562	72	<10	<10	<10	<10	13									
ACJ01	4/28/05 5:15	4/28 6:15	SF	6																			1.6									
ACJ01	4/28/05 8:15	4/29 6:15	ST	12					88	1480	7.75	2.2	0.1	1.1	2.16	0.45	238	33	<10	<10	<10	<10	2.7									
ACJ01	4/28/05 8:15	4/29 6:15	SF	12																			0.56									
ACJ01	4/29/05 8:15				2016	7.67	18.2	8.58																								
LCWI02	10/17/04 1:50	10/17 2:50	ST	6					630	1610	7.4	< 0.44	1.4	43	30.4	0.54	5430	910	<5	<5	<5	<5	12	84	400	300						3
LCWI02	10/17/04 1:50	10/17 2:50	SF	6																			< 1	< 8	**34**	6.6	28	< 2	**250**			
LCWI02	10/17/04 4:50	10/18 8:50	ST	15					107	1500	7.5	15	0.37	5.5	2.67	0.52	200	27	125	<5	<5	201	1	18	36	21	21	< 2	180			560
LCWI02	10/17/04 4:50	10/18 8:50	SF	15																			< 1	< 8	**9.8**	< 2	8.4	< 2	39			
LCWI02	10/18/04 10:50	10/20 8:50	ST	24					80	1170	8.3	6.2	0.12	2.1	1.54	0.38	250	28	102	<5	<5	<5	< 1	21	21	7.1	19	< 2	62			
LCWI02	10/18/04 10:50	10/20 8:50	SF	24																			< 1	< 8	**9.5**	< 2	6.9	< 2	38			
LCWI02	10/18/04 15:05				2247	8.2	19.34	13.06																								
LCWI02	10/20/04 10:50	10/21 14:50	ST	24					21	793	8.1	4.8	< 0.05	1.3	1.2	0.42	54	< 10	46.5	<5	<5	<5	< 1	< 8	7.6	< 2	5.2	< 2	20			
LCWI02	10/20/04 10:50	10/21 14:50	SF	24																			< 1	< 8	**5**	< 2	< 4	< 2	< 10			
LCWI02	10/21/04 16:50	10/22 8:50	DT	9					1.5	1590	8.3	3.1	< 0.05	1.1	0.706	0.29	< 10	< 10	33.7	<5	<5	<5	< 1	< 8	6.2	< 2	5.2	< 2	< 10			
LCWI02	10/21/04 16:50	10/22 8:50	DF	9																			< 1	< 8	7.1	< 2	5.8	< 2	< 10			
LCWI02	10/22/04 9:25				2080	7.48	17.51	7.71																								

Exceedances of the CTR acute criteria for dissolved metals are in bold

Table C-11.11
Aqueous Chemistry at Mass Emission Sites in the San Diego Region

	Composite Time or Time of Field Measurement		Samples		FieldMeasurements				Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion										Hardness as $CaCO_3$
Site	Begin	End	Type	#	EC	pH	TEMP	DO															Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	
					µS		C	mg/L	NTU	µS		mg/L							ng/L				µg/L									mg/L
LCWI02	1/28/05 14:08	1/28 15:08	ST	6					141	900	8.2	< 0.44	< 0.05	2.8	1.78	0.215	470	64	<5	<5	<5	<5	1.4	18	40	22	20	< 1	170			315
LCWI02	1/28/05 14:08	1/28 15:08	SF	6																			< 0.5	1.4	**11**	< 1	6	< 1	19			
LCWI02	1/28/05 17:08	1/29 15:08	ST	12					10	1540	8.5	2.1	< 0.05	0.63	0.737	0.233	14	< 10	<5	<5	<5	<5	< 0.5	1.8	4.4	1.7	11	< 1	12			488
LCWI02	1/28/05 17:08	1/29 15:08	SF	12																			< 0.5	< 1	3.4	< 1	7.9	< 1	10			
LCWI02	1/29/05 17:08	2/1 11:08	ST	30					1.6	1600	8.4	1.9	< 0.05	0.55	0.645	0.195	< 10	< 10	<5	<5	<5	32	< 0.5	< 1	3.7	< 1	9.3	< 1	< 10			450
LCWI02	1/29/05 17:08	2/1 11:08	SF	30																			< 0.5	5.7	4.3	1	13	< 1	**110**			
LCWI02	1/30/05 12:30				1675	8.4	14.4	18.1																								
LCWI02	2/1/05 11:53				1776	8.39	13.86	22.37																								
LCWI02	4/28/05 5:51	4/28 6:51	ST	6					1320	339	7.57	0.9	0.2	5.9	2.08	0.67	6250	487	<10	<10	<10	<10	4.3	150	110	98	150	< 0.5	410			140
LCWI02	4/28/05 5:51	4/28 6:51	SF	6																			< 0.5	1.6	**5.8**	0.68	4.1	< 0.5	6.1			
LCWI02	4/28/05 8:51	4/29 6:51	ST	12					168	555	8.02	1.9	0.1	1	2.5	0.77	506	52	<10	<10	<10	<10	0.68	28	19	10	24	< 0.5	53			190
LCWI02	4/28/05 8:51	4/29 6:51	SF	12																			< 0.5	< 0.5	3.9	1.9	3.4	< 0.5	3.4			
LCWI02	4/29/05 8:51	5/1 8:51	ST	25					3.35	1360	8.37	2	< 0.1	0.8	1	0.78	< 5	< 1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	2.7	< 0.5	5.7	< 0.5	4.8			400
LCWI02	4/29/05 8:51	5/1 8:51	SF	25																			< 0.5	< 0.5	2	< 0.5	4.6	< 0.5	2.9			
LCWI02	4/29/05 8:51				1198	8.31	15.41	11.78																								
LCWI02	5/1/05 8:51				1487	8.45	16.78	13.82																								
LCWI02	5/1/05 10:51	5/2 8:51	ST	12					1.6	1650	8.6	2.3	< 0.1	0.7	0.99	0.82	< 5	< 1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	2.6	< 0.5	6.1	< 0.5	3.7			600
LCWI02	5/1/05 10:51	5/2 8:51	SF	12																			< 0.5	< 0.5	2.7	< 0.5	6.7	< 0.5	4			
LCWI02	5/2/05 10:51				1538	8.43	16.1	15.1																								
PDCM01	10/17/04 1:23	10/17 2:23	ST	6					336	833	7.2	7	0.78	6.9	5.83	0.25	1810	200	245	<5	<5	1280	30	72	130	30	160	< 2	770			282
PDCM01	10/17/04 1:23	10/17 2:23	SF	6																			< 1	< 8	**5.3**	< 2	22	< 2	31			
PDCM01	10/17/04 4:23	10/18 6:23	ST	15					65	3060	7.7	15	0.3	4.1	2.3	0.43	340	42	111	<5	<5	827	11	14	35	4.7	90	< 2	190			1198
PDCM01	10/17/04 4:23	10/18 8:23	SF	15																			4.7	< 8	**12**	< 2	60	< 2	40			
PDCM01	10/18/04 10:23	10/20 8:23	ST	24					39	5150	8.1	14	0.12	2	1.35	0.36	130	18	48.2	<5	<5	69.6	11	8.5	19	2.2	92	< 2	87			
PDCM01	10/18/04 10:23	10/20 8:23	SF	24																			8.7	< 8	**12**	< 2	**86**	< 2	32			
PDCM01	10/20/04 10:23	10/21 14:23	ST	20					67	2420	7.7	9.2	0.57	2.6	1.44	0.34	190	24	39.6	<5	<5	45.8	7.2	8.9	13	2.5	50	< 2	72			
PDCM01	10/20/04 10:23	10/21 14:23	SF	20																			**4.4**	< 8	**6.1**	< 2	42	< 2	25			
PDCM01	10/21/04 16:23	10/22 8:23	DT	9					5.4	5960	8.1	17	0.11	1.5	0.583	0.18	< 10	< 10	349	<5	<5	<5	20	< 8	8.9	< 2	130	< 2	81			
PDCM01	10/21/04 16:23	10/22 8:23	DF	9																			18	< 8	**7.3**	< 2	**130**	< 2	47			
PDCM01	10/22/04 8:06				6515	8.04	16.76	10.09																								
PDCM01	1/27/05 1:29	1/27 2:29	ST	6						3290	7.7				4.3																	3680
PDCM01	1/27/05 1:29	1/27 2:29	SF	6																			7.4	< 1	**15**	< 1	**81**	< 1	35			
PDCM01	1/27/05 4:29	1/28 2:29	ST	12					30			20	0.13	1.5		0.091	80	12	48.6	<5	<5	<5	56	5.5	13	1.9	430	< 1	230			3680
PDCM01	1/28/05 4:29	1/30 8:29	ST	27					22	11200	8	23	0.11	1.5	0.43	0.083	21	< 10	72.9	<5	<5	<5	69	2.1	11	2.8	440	< 1	250			3775
PDCM01	1/28/05 4:29	1/30 8:29	SF	27																			**64**	< 1	**7.1**	1.1	**450**	< 1	**170**			
PDCM01	1/28/05 9:10				12227	8.07	14.14	12.23																								
PDCM01	1/30/05 0:00				12826	7.92	12.62	14.64																								
PDCM01	1/30/05 10:29	1/31 2:29	ST	9					9.7	11900	8	24	0.13	1.4	0.43	0.082	14	< 10	29	<5	<5	<5	69	1.6	15	< 1	550	< 1	260			4275
PDCM01	1/30/05 10:29	1/31 2:29	SF	9																			**69**	< 1	**11**	< 1	**500**	< 1	**170**			
PDCM01	2/1/05 9:15				13237	8.13	12.26	13.73																								

Exceedances of the CTR acute criteria for dissolved metals are in bold

Table C-11.11
Aqueous Chemistry at Mass Emission Sites in the San Diego Region

	Composite Time or Time of Field Measurement		Samples		Field Measurements																											
Site	Begin	End	Type	#	EC	pH	TEMP	DO	Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
					µS		C	mg/L	NTU	µS		mg/L							ng/L				µg/L									mg/L
PDCM01	4/28/05 4:25	4/28 5:25	ST	6					436	2210	7.15	0.7	0.7	18	0.93	< 0.06	2140	466	<10	<10	<10	<10	130	52	270	28	630	1.9	1900			690
PDCM01	4/28/05 4:25	4/28 5:25	SF	6																			< 0.5	0.66	3.6	< 0.5	**80**	< 0.5	11			
PDCM01	4/28/05 7:25	4/29 5:25	ST	12					360	5070	7.66	10.2	0.3	2.5	3	0.36	980	112	<10	<10	<10	<10	18	39	36	6.5	160	< 0.5	190			1870
PDCM01	4/28/05 7:25	4/29 5:25	SF	12																			12	0.76	**6.5**	< 0.5	**130**	< 0.5	28			
PDCM01	4/29/05 7:25	5/1 7:25	ST	25					14.5	9300	8.07	20.1	< 0.1	1.3	0.66	0.37	32	9	<1000	<1000	<1000	<1000	32	1.7	7.2	< 0.5	220	< 0.5	84			2990
PDCM01	4/29/05 7:25	5/1 7:25	SF	25																			**31**	0.54	**5.5**	< 0.5	**200**	< 0.5	58			
PDCM01	4/29/05 7:25				7800	8.41	16.23	12.62																								
PDCM01	5/1/05 7:25				8934	7.9	16.39	11.21																								
PDCM01	5/1/05 9:25	5/2 7:25	ST	12					5.1	10200	8	21.9	< 0.1	1.4	0.66	0.36	8	3	<1000	<1000	<1000	<1000	39	1.2	42	< 0.5	360	< 0.5	150			3625
PDCM01	5/1/05 9:25	5/2 7:25	SF	12																			**42**	0.73	**31**	< 0.5	**320**	< 0.5	**99**			
PDCM01	5/2/05 9:25				8047	7.92	16.07	10.81																								
SDCM02	10/17/04 1:44	10/17 2:44	ST	6					351	1010	7.1	0.84	1.1	14	11.1	0.26	2020	440	<5	<5	<5	<5	53	96	420	390	210	5.7	2800			530
SDCM02	10/17/04 1:44	10/17 2:44	SF	6																			2	< 8	**17**	6.8	47	< 2	**130**			
SDCM02	10/17/04 10:44	10/18 6:44	ST	11					121	1220	7.4	7.9	0.26	3.9	2.55	0.34	480	88	113	<5	<5	528	8.3	22	66	33	67	< 2	460			368
SDCM02	10/17/04 10:44	10/18 6:44	SF	11																			< 1	< 8	**11**	2	29	< 2	55			
SDCM02	10/18/04 8:48	10/20 6:48	ST	24					78	2620	8	6.2	0.067	2.2	1.6	0.37	190	24	33	<5	<5	<5	3.5	12	17	2.8	51	< 2	63			
SDCM02	10/18/04 8:48	10/20 6:48	SF	24																			1.4	< 8	**7.7**	< 2	43	< 2	15			
SDCM02	10/20/04 8:48	10/21 6:49	ST	24					660	1310	7.8	6.2	0.084	2.1	3.68	0.33	1520	170	27.7	<5	<5	<5	6.4	44	46	15	57	< 2	160			
SDCM02	10/20/04 8:48	10/21 6:49	SF	24																			< 1	< 8	**5.8**	< 2	21	< 2	< 10			
SDCM02	10/22/04 8:21				2078	8.34	15.45	13.64																								
SDCM02	1/27/05 2:44	1/27 3:44	ST	6					229	1380	7.9	5.3	0.23	2.9	3.38	0.098	640	68	<5	<5	<5	<5	40	29	42	11	90	< 1	300			380
SDCM02	1/27/05 2:44	1/27 3:44	SF	6																			4	< 1	4.4	1.9	38	< 1	66			
SDCM02	1/27/05 5:44	1/28 3:44	ST	12					6.7	3830	8.2	8.4	< 0.05	1.1	0.399	0.115	10	< 10	<5	<5	<5	<5	8.5	1.5	4.7	< 1	110	< 1	52			1280
SDCM02	1/27/05 5:44	1/28 3:44	SF	12																			7.1	1.1	4.6	1.1	**110**	< 1	84			
SDCM02	1/28/05 5:44	1/28 5:44	ST	9					30	2890	8	7.5	0.068	1.1	0.583	0.127	63	11	<5	<5	<5	<5	9	4.8	15	1.9	86	< 1	66			1204
SDCM02	1/28/05 5:44	1/28 5:44	SF	9																			5.9	1.3	**11**	< 1	**77**	< 1	37			
SDCM02	1/28/05 5:44	1/28 13:44	ST	5					1.4	6250	8.6	14	< 0.05	0.85	0.301	0.101	< 10	< 10	<5	<5	<5	<5	11	< 1	13	1.3	160	< 1	45			1930
SDCM02	1/28/05 5:44	1/28 13:44	SF	5																			9.1	< 1	**15**	2.2	**160**	< 1	52			
SDCM02	1/28/05 8:45				6602	8.13	12.92	14.59																								
SDCM02	1/29/05 9:44	1/31 1:44	ST	21					1	6120	8.5	12	< 0.05	1	0.249	0.088	< 10	< 10	<5	<5	<5	<5	8.9	< 1	11	1.3	180	< 1	65			3025
SDCM02	1/29/05 9:44	1/31 1:44	SF	21																			9.2	1.1	**5.9**	< 1	**170**	< 1	40			
SDCM02	1/30/05 9:12				6881	8.04	10.4	19.1																								
SDCM02	2/1/05 0:00				7453	8.23	9.6	17.47																								

Exceedances of the CTR acute criteria for dissolved metals are in bold

Table C-11.11
Aqueous Chemistry at Mass Emission Sites in the San Diego Region

Site	Composite Time or Time of Field Measurement		Samples		Field Measurements				Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
	Begin	End	Type	#	EC	pH	TEMP	DO																							
					µS		C	mg/L	NTU	µS		mg/L							ng/L				µg/L									mg/L
SDCM02	4/28/05 4:40	4/28 5:40	ST	6					9.01	2170	7.93	5.7	< 0.1	0.8	0.78	0.57	14	5	<10	<10	<10	<10	3.6	2.2	7.6	< 0.5	48	< 0.5	24			675
SDCM02	4/28/05 4:40	4/28 5:40	SF	6																			2.6	1.4	**5.7**	< 0.5	47	< 0.5	19			
SDCM02	4/28/05 7:40	4/29 5:40	ST	12					168	1340	7.58	3.5	0.1	1.6	1.98	0.57	515	67	<10	<10	<10	<10	6	18	25	5.9	52	< 0.5	130			420
SDCM02	4/28/05 7:40	4/29 5:40	SF	12																			1.5	1.1	**6.5**	< 0.5	27	< 0.5	12			
SDCM02	4/29/05 7:40	4/29 13:40	ST	4					100.5	2370	7.94	5.2	< 0.1	2.6	1.11	0.23	402	52	<1000	<1000	<1000	<1000	9.9	9.6	28	6.3	73	< 0.5	180			690
SDCM02	4/29/05 7:40	4/29 13:40	SF	4																			1.5	1.1	**9.9**	< 0.5	42	< 0.5	19			
SDCM02	4/29/05 7:40	5/1 7:40	ST	25					1.68	3900	8.23	7.9	< 0.1	1.1	0.67	0.44	< 5	< 1	<1000	<1000	<1000	<1000	4.1	1.7	5	< 0.5	70	< 0.5	19			1250
SDCM02	4/29/05 7:40	5/1 7:40	SF	25																			3.7	1.2	4.4	< 0.5	50	< 0.5	15			
SDCM02	4/29/05 7:40				2422	8.59	15.66	11.24																								
SDCM02	5/1/05 7:40				4546	8.06	16.16	12.67																								
SDCM02	5/1/05 9:40	5/2 7:40	ST	12					0.85	5330	8.34	6.9	< 0.1	1.1	0.44	0.24	< 5	< 1	<1000	<1000	<1000	<1000	4.9	1.2	5.1	< 0.5	97	< 0.5	30			1750
SDCM02	5/1/05 9:40	5/2 7:40	SF	12																			5.1	0.99	4.3	< 0.5	**85**	< 0.5	18			
SDCM02	5/2/05 9:40				5843	8.13	16.02	14.4																								
SJNL01	10/17/04 2:02	10/17 3:02	ST	6					486	726	7	7	0.83	12	6.45	0.3	1830	320	355	<5	<5	821	12	72	160	37	91	< 2	600			296
SJNL01	10/17/04 2:02	10/17 3:02	SF	6																			< 1	< 8	3.3	< 2	9.6	< 2	16			
SJNL01	10/17/04 5:02	10/18 9:02	ST	15					178	1040	7.2	6.6	0.29	5	3.07	0.46	570	100	150	<5	<5	366	3.4	18	49	13	30	< 2	180			394
SJNL01	10/17/04 5:02	10/18 9:02	SF	15																			< 1	< 8	**6.9**	< 2	8.5	< 2	17			
SJNL01	10/18/04 11:02	10/20 9:02	ST	24					83	1490	7.7	2.5	0.11	2.1	1.44	0.31	140	24	51.6	<5	<5	<5	< 1	9.8	12	2.1	13	< 2	45			
SJNL01	10/18/04 11:02	10/20 9:02	SF	24																			< 1	< 8	**5.1**	< 2	7.1	< 2	< 10			
SJNL01	1/28/05 20:49	1/28 21:49	ST	6					162	768	8.4	2.2	< 0.05	0.96	1.17	0.148	360	42	<5	<5	<5	<5	< 0.5	15	14	6.4	15	< 1	51			260
SJNL01	1/28/05 20:49	1/28 21:49	SF	6																			< 0.5	< 1	3.8	2.7	5.5	< 1	24			
SJNL01	1/28/05 23:49	1/29 21:49	ST	12					19	703	8.3	2.5	< 0.05	0.41	0.368	0.09	36	< 10	<5	<5	<5	<5	< 0.5	< 1	5.3	1.4	5.5	< 1	13			465
SJNL01	1/28/05 23:49	1/29 21:49	SF	12																			< 0.5	< 1	3.4	< 1	4.8	< 1	72			
SJNL01	1/29/05 23:49	2/1 9:49	ST	30					8.2	703	8.2	2.3	< 0.05	0.3	0.239	0.068	15	< 10	<5	<5	<5	<5	< 0.5	< 1	4.2	1.1	5.2	< 1	< 10			305
SJNL01	1/29/05 23:49	2/1 9:49	SF	30																			< 0.5	< 1	2.9	< 1	4.3	< 1	< 10			
SJNL01	1/30/05 10:15				771	8.51	13.19	12.42																								
SJNL01	2/1/05 10:09				824	8.51	12.66	14.63																								
SJNL01	2/1/05 11:49	2/2 9:49	ST	12					5.2	740	8.2	2.5	< 0.05	0.32	0.246	0.056	11	< 10	<5	<5	<5	<5	< 0.5	< 1	4.2	1.1	7.8	< 1	49			608
SJNL01	2/1/05 11:49	2/2 9:49	SF	12																			< 0.5	< 1	< 2.5	< 1	4.5	< 1	< 10			
SJNL01	2/2/05 10:45				784	8.18	14.01	7.77																								
SJNL01	4/28/05 4:41	4/28 5:41	ST	6					2.85	752	7.85	1.6	< 0.1	< 0.5	0.38	0.17	20	2	<10	<10	<10	<10	< 0.5	0.7	4.9	0.53	4.9	< 0.5	14			280
SJNL01	4/28/05 4:41	4/28 5:41	SF	6																			< 0.5	< 0.5	2.9	< 0.5	5.3	< 0.5	7.6			
SJNL01	4/28/05 7:41	4/29 5:41	ST	12					176	635	7.9	3.4	0.1	1.1	2.88	0.56	439	63	<10	<10	<10	<10	< 0.5	7	13	5.2	8.8	< 0.5	42			245
SJNL01	4/28/05 7:41	4/29 5:41	SF	12																			< 0.5	< 0.5	3.1	< 0.5	3.8	< 0.5	2.8			
SJNL01	4/29/05 7:41	5/1 5:41	ST	24					12.3	742	8.2	1.2	< 0.1	< 0.5	0.41	0.24	30	8	<1000	<1000	<1000	<1000	1.2	0.56	4.7	< 0.5	4.4	< 0.5	8			275
SJNL01	4/29/05 7:41	5/1 5:41	SF	24																			< 0.5	< 0.5	2	< 0.5	2.8	< 0.5	2.5			
SJNL01	4/29/05 7:41				814	8.67	17.51	10.96																								
SJNL01	5/1/05 7:41				786	8	17	10.2																								
SJNL01	5/1/05 9:41	5/2 7:41	ST	12					4.8	1120	8.17	< 0.1	< 0.1	1.4	0.3	0.21	9	1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	2.2	< 0.5	3.7	< 0.5	5.5			375
SJNL01	5/1/05 9:41	5/2 7:41	SF	12																			< 0.5	< 0.5	1.4	< 0.5	3.7	< 0.5	3.5			
SJNL01	5/2/05 7:41				812	8.06	17.24	12.1																								

Exceedances of the CTR acute criteria for dissolved metals are in bold

Table C-11.11
Aqueous Chemistry at Mass Emission Sites in the San Diego Region

	Composite Time or Time of Field Measurement		Samples		FieldMeasurements				Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
Site	Begin	End	Type	#	EC	pH	TEMP	DO																								
					µS		C	mg/L	NTU	µS		mg/L							ng/L				µg/L									mg/L
TCOL02	10/17/04 2:02	10/17 3:02	ST	6					188	650	7	7.5	0.76	7.7	6.45	0.28	660	120	340	<5	<5	579	2.9	24	87	36	27	< 2	460			280
TCOL02	10/17/04 2:02	10/17 3:02	SF	6																			< 1	< 8	**9.6**	< 2	9	< 2	58			
TCOL02	10/17/04 13:02	10/18 9:02	ST	15					359	669	7.5	5.3	0.25	3.2	3.38	0.26	1140	120	110	<5	<5	114	4.4	30	48	13	33	< 2	160			310
TCOL02	10/17/04 13:02	10/18 9:02	SF	15																			< 1	< 8	**6.6**	< 2	7	< 2	< 10			
TCOL02	10/18/04 11:02	10/20 9:02	ST	24					212	949	7.8	5.3	0.18	2.3	2.33	0.25	750	66	88.1	<5	<5	112	2	27	33	9	27	< 2	100			
TCOL02	10/18/04 11:02	10/20 9:02	SF	24																			< 1	< 8	**5.6**	< 2	7.6	< 2	12			
TCOL02	10/20/04 21:02	10/22 9:02	ST	24					200	1030	8	5.7	0.094	2	2.15	0.26	770	66	45.4	<5	<5	<5	1.7	21	27	7.7	21	< 2	77			
TCOL02	10/20/04 21:02	10/22 9:02	SF	24																			< 1	< 8	4.7	< 2	6.8	< 2	< 10			
TCOL02	10/22/04 9:02				1381	8.22	18.21	9.53																								
TCOL02	1/28/05 15:21	1/28 16:21	ST	6					612	1760	8.2	2.9	0.071	3	4.3	0.083	2170	160	<5	<5	<5	<5	7.2	80	95	28	83	< 1	340			780
TCOL02	1/28/05 15:21	1/28 16:21	SF	6																			< 0.5	< 1	2.9	< 1	14	< 1	< 10			
TCOL02	1/29/05 18:21	2/1 10:21	ST	30					11	1100	8.4	4.8	< 0.05	0.33	0.236	0.065	14	< 10	<5	<5	<5	<5	0.55	2	17	1	11	< 1	< 10			445
TCOL02	1/29/05 18:21	2/1 10:21	SF	30																			< 0.5	< 1	2.6	< 1	9.2	< 1	< 10			
TCOL02	1/30/05 10:32				1133	8.34	13.62	13.1																								
TCOL02	2/1/05 10:32				1322	8.44	13.61	14.92																								
TCOL02	2/2/05 9:45				1339	8.34	13.26	7.87																								
TCOL02	4/28/05 5:34	4/28 6:34	ST	6					165	565	7.54	2	0.1	2.1	1.98	0.29	757	95	<10	<10	<10	<10	2	23	40	19	25	< 0.5	180			195
TCOL02	4/28/05 5:34	4/28 6:34	SF	6																			< 0.5	< 0.5	4.5	< 0.5	4.9	< 0.5	11			
TCOL02	4/28/05 8:34	4/29 6:34	ST	12					365	585	7.91	2.7	0.1	1.6	2.84	0.38	1300	135	<10	<10	<10	<10	2.8	24	34	10	28	< 0.5	110			210
TCOL02	4/28/05 8:34	4/29 6:34	SF	12																			< 0.5	< 0.5	2.9	< 0.5	4.6	< 0.5	2.2			
TCOL02	4/29/05 8:34	5/1 6:34	ST	24					17.5	1040	8.36	2.9	< 0.1	0.6	0.37	0.25	31	7	<1000	<1000	<1000	<1000	< 0.5	1.1	4.2	0.54	6.4	< 0.5	6.2			405
TCOL02	4/29/05 8:34	5/1 6:34	SF	24																			< 0.5	< 0.5	2.4	< 0.5	5.3	< 0.5	2.3			
TCOL02	4/29/05 8:34				835	8.09	15.46	10.1																								
TCOL02	5/1/05 8:34				1277	8.26	18.04	10.24																								
TCOL02	5/2/05 10:34				1366	8.27	17.91	13.8																								

Exceedances of the CTR acute criteria for dissolved metals are in bold

Table C-11.20
Toxicity Results for Ambient Coastal Receiving Water Stations

Station	Event	Type	Chronic Sea Urchin Fertilization.			Chronic Sea Urchin Embryo Development			Chronic Mysidopsis Bahia Survival and Growth										Chronic Ceriodaphnia Survival and Reproduction									
									Surv in	Survival				Growth in	Growth				Surv in	Survival				Repro in	Reproduction			
			NOEC	96hr IC_{50}	TUc	NOEC	96hr IC_{50}	TUc	100%	NOEC	TUc	96hr IC_{50}	TUa	100%	NOEC	TUc	96hr IC_{50}	TUa	100%	NOEC	TUc	7day IC_{50}	TUa	100%	NOEC	TUc	7day IC_{50}	TUa
Reference Toxicant			$CuCl_2$						SDS																			
LB-1	12/14/04		DRY																									
LB-2	12/14/04	DW	12.50	38.71	8.00	50.00	74.75	2.00	0.00	25.00	4.00	54.17	1.85	0.00	25.00	4.00	47.96	2.09										
	12/28/04	ST	100.00	>100.00	1.00	<6.25	27.15	>16.00	75.00	100.00	1.00	>100.00	0.82	17.55	100.00	1.00	>100.00	1.13	100.00	100.00	1.00	>100.00	0.00	36.00	100.00	1.00	>100.00	1.06
LB-3	12/7/04	DW	50.00	85.80	2.00	100.00	>100.00	1.00	97.50	100.00	1.00	>100.00	0.23	26.65	100.00	1.00	>100.00	1.10										
	12/28/04	ST	100.00	>100.00	1.00	12.50	21.94	8.00	45.00	50.00	2.00	94.23	1.06	12.83	100.00	1.00	>100.00	1.14	100.00	100.00	1.00	>100.00	0.00	41.50	100.00	1.00	>100.00	1.04
	3/22/05	DW	12.50	38.12	8.00	50.00	81.74	2.00	35.00	<6.25	>16.00	5.90	16.95	7.40	100.00	1.00	>100.00	1.16										
	4/28/05	ST	100.00	>100.00	1.00	100.00	>100.00	1.00	85.00	100.00	1.00	>100.00	0.69	54.73	100.00	1.00	>100.00	0.97										
LB-4	12/7/04	DW	50.00	74.94	2.00	50.00	72.36	2.00	85.00	100.00	1.00	>100.00	0.69	16.90	100.00	1.00	>100.00	1.13										
	12/14/04	DW	6.25	17.45	16.00	25.00	37.18	4.00	0.00	>6.25	<16.00	17.09	5.85	0.00	12.50	8.00	19.66	5.09										
	12/28/04	ST	100.00	>100.00	1.00	<6.25	11.06	>16.00	92.50	100.00	1.00	>100.00	0.51	39.35	100.00	1.00	>100.00	1.05	100.00	100.00	1.00	>100.00	0.00	32.60	100.00	1.00	>100.00	1.08
AB-1	12/14/04		DRY																									
ACM-1	12/7/04	DW	25.00	87.10	4.00	25.00	>100.00	4.00	70.00	100.00	1.00	>100.00	0.87	26.03	100.00	1.00	>100.00	1.10										
	12/28/04	ST	100.00	>100.00	1.00	25.00	27.15	4.00	20.00	50.00	2.00	76.00	1.32	16.50	100.00	1.00	89.92	1.11	100.00	100.00	1.00	>100.00	0.00	32.60	100.00	1.00	>100.00	1.08
	2/16/05	DW	100.00	>100.00	1.00	100.00	>100.00	1.00	80.00	100.00	1.00	>100.00	0.77	32.25	100.00	1.00	>100.00	1.08										
	3/22/05	DW	6.25	>100.00	16.00	100.00	>100.00	1.00	47.50	25.00	4.00	>100.00	1.01	13.28	100.00	1.00	>100.00	1.14										
	4/28/05	ST	100.00	>100.00	1.00	100.00	>100.00	1.00	87.50	100.00	1.00	>100.00	0.65	15.48	100.00	1.00	>100.00	1.13										
SCM-1	12/7/04	DW	52.00	>100.00	2.00	100.00	>100.00	1.00	22.50	50.00	2.00	73.96	1.35	14.35	100.00	1.00	>100.00	1.14										
	12/14/04	DW	100.00	>100.00	1.00	100.00	>100.00	1.00	2.50	25.00	4.00	60.23	1.66	2.45	50.00	2.00	76.84	1.30										
	12/28/04	ST	100.00	>100.00	1.00	6.25	26.27	16.00	5.00	25.00	4.00	40.96	2.44	0.95	12.50	8.00	37.38	2.68	100.00	100.00	1.00	>100.00	0.00	29.10	100.00	1.00	>100.00	1.09
	2/16/05	DW	100.00	>100.00	1.00	100.00	>100.00	1.00	52.50	50.00	2.00	>100.00	0.99	41.15	100.00	1.00	>100.00	1.04										
	3/22/05	DW	100.00	>100.00	1.00	100.00	>100.00	1.00	0.00	6.25	16.00	11.60	8.47	0.00	50.00	2.00	75.00	1.33										
	4/28/05	ST	100.00	>100.00	1.00	100.00	>100.00	1.00	22.50	50.00	2.00	82.74	1.21	31.20	100.00	1.00	>100.00	1.08										
NI-1	12/14/04	DW	50.00	>100.00	2.00	100.00	>100.00	1.00	57.50	50.00	2.00	>100.00	0.96	28.78	100.00	1.00	>100.00	1.09										
	1/26/05	DW	<6.25	15.54	>16.00	12.50	31.16	8.00	20.00	25.00	4.00	39.96	2.50	19.90	100.00	1.00	>100.00	1.12										
SJC-1	12/7/04	DW	25.00	81.54	4.00	50.00	>100.00	2.00	55.00	50.00	2.00	>100.00	0.97	11.28	100.00	1.00	>100.00	1.15										
	12/28/04	ST	100.00	>100.00	1.00	12.50	31.10	8.00	5.00	25.00	4.00	66.35	1.51	5.68	50.00	2.00	84.11	1.19	100.00	100.00	1.00	>100.00	0.00	30.50	100.00	1.00	>100.00	1.08
	1/26/05	DW	50.00	>100.00	2.00	50.00	>100.00	2.00	0.00	12.50	8.00	61.77	1.62	0.00	50.00	2.00	68.56	1.46										
	3/22/05	DW	100.00	>100.00	1.00	100.00	>100.00	1.00	30.00	25.00	4.00	77.08	1.30	16.38	100.00	1.00	>100.00	1.13										
	4/28/05	ST	100.00	>100.00	1.00	50.00	>100.00	2.00	90.00	100.00	1.00	>100.00	0.59	27.35	100.00	1.00	>100.00	1.09										
DSB-5	12/14/04	DW	50.00	81.30	2.00	25.00	72.45	4.00	0.00	25.00	4.00	37.12	2.69	0.00	25.00	4.00	37.55	2.66										
	1/26/05	DW	<6.25	3.74	>16.00	6.25	10.13	16.00	0.00	12.50	8.00	17.03	5.87	0.00	12.50	8.00	18.75	5.33										
	2/16/05	DW	6.25	17.82	16.00	6.25	9.71	16.00	0.00	12.50	8.00	19.42	5.15	0.00	25.00	4.00	36.12	2.77										
	3/22/05	DW	12.50	39.42	8.00	50.00	70.79	2.00	0.00	6.25	16.00	18.16	5.51	0.00	25.00	4.00	37.50	2.67										
	4/28/05	ST	50.00	80.96	2.00	50.00	86.63	2.00	55.00	50.00	2.00	>100.00	0.97	36.03	100.00	1.00	>100.00	1.06										
	6/23/05	DW	100.00	>100.00	1.00	100.00	>100.00	1.00	27.50	50.00	2.00	84.09	1.19	8.83	50.00	2.00	90.08	1.11										
DSB-4	12/14/04	DW	DRY																									
DSB-3	12/14/04	DW	DRY																									
	1/26/05	DW	<6.25	3.26	>16.00	<6.25	3.13	>16.00	0.00	6.25	16.00	9.23	10.83	0.00	12.50	8.00	18.73	5.34										
	2/16/05	DW	100.00	>100.00	1.00	100.00	1.00	>100.00	0.00	25.00	4.00	46.15	2.17	0.00	50.00	2.00	67.37	1.48										
	3/22/05	DW	25.00	46.01	4.00	50.00	77.24	2.00	0.00	<6.25	16.00	5.76	17.36	0.00	50.00	2.00	75.00	1.33										
DSB-2	12/14/04	DW	DRY																									
DSB-1	12/14/04	DW	DRY																									
	1/26/05	DW	<6.25	7.97	>16.00	12.50	21.33	8.00	7.50	<6.25	>16.00	25.00	4.00	5.05	100.00	1.00	64.21	1.56										
	2/16/05	DW	6.25	19.19	16.00	12.50	75.00	8.00	80.00	100.00	1.00	>100.00	0.77	32.55	100.00	1.00	>100.00	1.08										
	3/22/05	DW	50.00	>100.00	2.00	100.00	>100.00	1.00	10.00	6.25	16.00	13.75	7.27	21.30	100.00	1.00	>100.00	1.12										
	4/28/05	ST	25.00	>100.00	4.00	50.00	>100.00	2.00	27.50	50.00	2.00	80.56	1.24	11.35	100.00	1.00	>100.00	1.15										

NS NO SAMPLE
NSA NO SAMPLE ANALYSIS, DUE TO LAB PROBLEMS
DW DRY WEATHER EVENT
ST STORMWATER EVENT
Phase I TIE conducted

Table C-11.18
Aqueous Chemistry at Ambient Coastal Receiving Water Sites

Location	Date	Type	FieldMeasurements				Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
			EC	pH	TEMP	DO																								
			µS		C	mg/L	NTU	µS		mg/L							ng/L				µg/L									mg/L
DAPTWB	4/28/05	ST					6.15	38800	7.95	0.7	0.1	< 0.5	0.43	0.28	8	< 1	<10	<10	<10	<10	0.065	1.07	10.1	0.398	0.665	< 0.005	20.1	1.21	0.038	
DAPTWB	4/28/05	SF																			0.059	0.5	**6.12**	0.043	0.446	< 0.005	15.2	1.04	< 0.01	
DAPTWB	4/30/05	ST					3.52	48600	7.91	< 0.4	0.1	< 0.5	0.23	0.07	6	< 1	<10	<10	<10	<10	0.065	1.55	10	0.534	0.72	< 0.005	11.3	1.19	0.028	
DAPTWB	4/30/05	SF																			0.054	0.495	4.61	0.028	0.422	< 0.005	6.74	0.984	0.022	
DAPTWB	5/2/05	ST					2.9	48000	7.92	< 0.1	< 0.1	0.5	0.22	0.1	< 5	< 1	<1000	<1000	<1000	<1000	0.137	0.885	9.14	0.232	0.562	< 0.005	13	1.25	< 0.01	
DAPTWB	5/2/05	SF																			0.095	0.555	3.41	0.029	0.407	< 0.005	6.63	1.03	0.011	
DAPTWB	6/23/05	DT					1.2	48600	7.83	< 0.4	< 0.1	0.5	0.25	0.1	< 5	< 1	<10	<10	<10	<10	0.159	1.54	13.9	0.635	0.956	< 0.005	19.8			
DAPTWB	6/23/05	DF																			0.154	0.285	**6.98**	0.035	0.663	< 0.005	15.2			
DSB-1	1/26/05	ST	9130	8.07	16.1	10.9	13	8850	8	15	0.187	2.2	< 10	0.21	< 5	< 10	34	<5	<5	<5	3.1	2.7	7.7	< 1	120	< 1	100			
DSB-1	1/26/05	SF																			2.4	< 1	**5.9**	< 1	**120**	< 1	64			
DSB-1	2/16/05	DT	9012	6.81	13.73	14.34	22	8460	8.1	12	0.2	2.3	0.737	0.01	12	< 10	<5	<5	<5	29.8	6.1	2.2	12	1.3	150	< 1	200			2264
DSB-1	2/16/05	DF																			4.7	1.6	3.5	< 1	**140**	< 1	87			
DSB-1	3/22/05	ST	10466	7.78	16.59	12.24	15	8060	8.2	15	0.15	1.8	0.289	0.015	15	< 10	<5	<5	<5	<5	6.3	1.5	12	1	170	< 1	100			
DSB-1	3/22/05	SF																			5	< 1	**8.2**	< 1	**140**	< 1	48			
DSB-1	4/28/05	ST	1690	7.88	17.64	10.22															1.3	2	15	2	29	< 0.5	130			412
DSB-1	4/28/05	SF																			1	1.1	**12**	0.5	29	< 0.5	**99**			
DSB-3	1/26/05	ST	1026	9.62	18	9.28	76	876	9.2	3.7	0.45	1.9	0.614	0.083	160	22	<5	<5	<5	<5	< 0.5	20	23	< 1	8.9	< 1	17			
DSB-3	1/26/05	SF																			< 0.5	24	**40**	7.3	13	< 1	**130**			
DSB-3	2/16/05	DT	649	7.6	12.7	8.39	65.6	596	7.8	2.2	0.59	2.7	1.93	0.295	130	19	<5	<5	<5	<5	1.7	9.7	19	39	30	< 1	130			320
DSB-3	2/16/05	DF																			< 0.5	< 1	4.8	1.2	20	< 1	19			
DSB-3	3/22/05	ST	15077	8.02	20.56	10.41	34	12200	8	35	0.54	6.7	1.38	0.17	120	26	<5	<5	<5	<5	20	6.9	42	5.7	120	< 1	130			
DSB-3	3/22/05	SF																			14	1.7	**19**	< 1	**90**	< 1	31			
DSB-5	12/14/04	DT	27884	7.4	15.29	8.67	5.9	15400	7.9	4.8	0.84	2.4	0.399	0.013	16	12	<5	<5	<5	644	130	1.2	15	3	520	< 1	400			
DSB-5	12/14/04	DF																			**110**	< 1	**8.6**	< 1	**520**	< 1	**360**			
DSB-5	1/26/05	ST	10316	7.74	18.11	10.63	6.5	9290	7.6	29	1.2	2.1	0.236	0.04	14	< 10	<5	<5	68200	<10	130	1.9	4.6	1.4	690	< 1	430			
DSB-5	1/26/05	SF																			**130**	1.1	3.3	< 1	**710**	< 1	**420**			
DSB-5	2/16/05	DT	10165	6.74	15.74	13.36	3.4	9200	7.5	35	1.1	1.1	0.184	0.019	< 10	< 10	<5	<5	<5	<5	150	1.3	120	< 1	780	< 1	690			2950
DSB-5	2/16/05	DF																			**150**	1	**92**	< 1	**770**	< 1	**670**			
DSB-5	3/22/05	ST	10302	7.98	21.1	17.75	5.6	8050	8.3	38	0.41	1.3	0.104	< 0.01	15	< 10	<5	<5	<5	<5	100	1.6	8	< 1	730	< 1	220			
DSB-5	3/22/05	SF																			**44**	< 1	4	< 1	**660**	< 1	**98**			
DSB-5	4/28/05	ST	1558	7.54	19.58	8.86															10	4	17	4.6	73	< 0.5	120			388
DSB-5	4/28/05	SF																			6.1	1.4	**10**	0.77	64	< 0.5	84			
DSB-5	6/22/05	DT	10350	7.41	24.4	7.51											<5	<5	<5	<5	1.3	0.315	0.819	3.22	274	< 0.025	12.6	0.908	0.641	
LB-2	12/14/04	DT	3272	7.9	18.63	4.87	19	3180	8	6.6	< 0.05	2.2	1.87	0.39	46	24	<5	<5	<5	35.5	< 0.5	2.6	25	4.8	9.9	< 1	54			
LB-2	12/14/04	DF																			< 0.5	1.6	**17**	2.1	6.6	< 1	34			
LB-2	12/28/04	ST	975	7.38	15.63	11.21	19	883	8	4.8	0.16	1.4	1.75	0.48	12	< 10	<5	<5	<5	130	< 0.5	3.7	54	4	6.3	< 1	150			180
LB-2	12/28/04	SF																			< 0.5	2.1	**41**	1.9	5.4	< 1	**110**			
LB-3	12/7/04	DT	11370	8.13	12.7	9.66	3	8520	8.3	0.84	< 0.05	0.48	0.368	0.099	< 10	< 10	<5	<5	<5	38.4	< 0.5	< 1	3.8	1.9	6.8	< 1	33			1445
LB-3	12/7/04	DF																			< 0.5	< 1	2.8	1.1	6.7	< 1	29			
LB-3	12/28/04	ST	561	7.49	12.97	11.9	90	352	7.9	2.6	0.052	1.3	1.66	0.33	130	21	<5	<5	<5	<5	< 0.5	7.7	19	4.7	7.4	< 1	36			85
LB-3	12/28/04	SF																			< 0.5	< 1	**12**	< 1	< 4	< 1	12			
LB-3	3/22/05	ST	1976	8.02	16.52	11.57	6.5	1590	8.3	3.8	0.062	1.2	0.798	0.23	< 10	< 10	<5	<5	<5	<5	< 0.5	< 1	15	1.5	9	< 1	61			
LB-3	3/22/05	SF																			< 0.5	< 1	**12**	< 1	9.6	< 1	53			
LB-3	4/28/05	ST	534	7.95	16.44	10.96															< 0.5	6.2	7.1	2.8	6	< 0.5	22			600
LB-3	4/28/05	SF																			< 0.5	< 0.5	2.6	< 0.5	2.8	< 0.5	3.5			

Exceedances of Acute CTR Criteria for Saltwater are bold

Table C-11.18
Aqueous Chemistry at Ambient Coastal Receiving Water Sites

Location	Date	Type	FieldMeasurements				Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
			EC	pH	TEMP	DO																								
			µS		C	mg/L	NTU	µS		mg/L							ng/L				µg/L									mg/L
LB-4	12/7/04	DT	1643	8.34	14.25	9.46	3.7	1610	8.2	5.7	< 0.05	1	0.798	0.24	< 10	< 10	<5	<5	<5	<5	< 0.5	4.3	12	2.8	6.6	< 1	30			545
LB-4	12/7/04	DF																			< 0.5	3.3	**9**	4.7	4.3	< 1	36			
LB-4	12/14/04	DT	2084	7.74	18.51	3.83	7.9	1970	7.4	6.2	< 0.05	1.8	2.55	0.17	16	< 10	<5	<5	<5	<5	< 0.5	8.3	26	10	14	< 1	110			
LB-4	12/14/04	DF																			< 0.5	< 1	**10**	< 1	6.9	< 1	67			
LB-4	12/28/04	ST	201	7.5	13.78	10.9	35	181	7.5	2.8	0.26	1.2	1.17	0.35	43	< 10	<5	<5	<5	87	< 0.5	6.6	27	4.7	5.3	< 1	93			95
LB-4	12/28/04	SF																			< 0.5	2.2	**18**	< 1	< 4	< 1	51			
NI-1	12/14/04	DT	6794	7.88	17.18	6.59	6.1	6130	8.1	2	0.2	1.3	0.157	0.041	10	< 10	<5	<5	<5	51.7	24	< 1	17	1.5	190	< 1	70			
NI-1	12/14/04	DF																			**24**	< 1	**16**	< 1	**180**	< 1	64			
NI-1	1/26/05	ST	6285	7.96	18.7	9.65	2.9	5810	8	1.9	0.16	1.4	0.23	0.054	< 10	< 10	<5	<5	<5	<5	25	1.7	6	< 1	160	< 1	63			
NI-1	1/26/05	SF																			**24**	1.2	**5.1**	< 1	**150**	< 1	54			
SCM-1	12/7/04	DT	4750	7.8	14.3	6.6	5.6	3430	7.9	8.4	0.11	3.6	1.14	0.16	< 10	< 10	19.8	<5	<5	<5	3.5	1.2	6.7	1.6	39	< 1	26			1015
SCM-1	12/7/04	DF																			2.7	< 1	**6**	< 1	37	< 1	20			
SCM-1	12/14/04	DT	4750	7.8	14.3	6.6	4.8	4460	8.1	39	0.49	1.5	1.2	0.2	< 10	< 10	<5	<5	<5	<5	3.9	1	8.8	< 1	50	< 1	35			
SCM-1	12/14/04	DF																			2.9	< 1	**6.8**	1.4	51	< 1	19			
SCM-1	12/28/04	ST	434	7.39	13.28	11.54	140	312	7.5	3.4	0.28	2	2.06	0.4	280	42	32.2	<5	<5	123	0.63	13	22	4.3	13	< 1	84			90
SCM-1	12/28/04	SF																			< 0.5	1	**5.5**	< 1	< 4	< 1	15			
SCM-1	2/16/05	DT	4987	6.92	15.09	14.27	5.3	4620	8.2	11	0.19	0.56	0.921	0.18	< 10	< 10	<5	<5	<5	40	4.6	1.2	4.2	< 1	49	< 1	37			1510
SCM-1	2/16/05	DF																			3.4	< 1	< 2.5	< 1	45	< 1	23			
SCM-1	3/22/05	ST	5169	7.77	17.43	14.27	3.5	3930	8.2	8.4	< 0.05	0.87	0.675	0.13	< 10	< 10	<5	<5	<5	3000	4.4	1.3	4.9	< 1	57	< 1	24			
SCM-1	3/22/05	SF																			3.3	< 1	3.7	< 1	48	< 1	16			
SCM-1	4/28/05	ST	763	7.73	16.05	10.21															< 0.5	5.9	11	1.3	8.8	< 0.5	27			166
SCM-1	4/28/05	SF																			< 0.5	< 0.5	3.4	< 0.5	5.1	< 0.5	14			
SJC-1	12/7/04	DT	1890	7.79	13.92	9.65	3.7	1730	8.1	< 0.44	< 0.05	0.64	0.399	0.076	< 10	< 10	<5	<5	<5	<5	2.5	< 1	2.8	1.8	23	< 1	19			765
SJC-1	12/7/04	DF																			2.5	< 1	2.6	1.7	24	< 1	39			
SJC-1	12/28/04	ST	492	7.36	13.28	11.49	950	483	7.8	3.5	0.39	6	6.75	0.15	3870	330	<5	<5	<5	224	11	67	95	29	79	< 1	360			220
SJC-1	12/28/04	SF																			0.5	< 1	3.2	< 1	5.9	< 1	< 10			
SJC-1	1/26/05	ST	945	7.8	16.62	9.81	248	1000	8.1	3.7	< 0.05	1.8	1.57	0.072	820	84	128	<5	<5	<10	1.9	32	33	13	30	< 1	110			
SJC-1	1/26/05	SF																			< 0.5	< 1	< 2.5	1	7.4	< 1	10			
SJC-1	3/22/05	ST	1093	7.95	20.29	10.99	5.8	816	8.5	1.6	< 0.05	0.3	0.16	0.037	17	< 10	<5	<5	<5	<5	< 0.5	< 1	< 2.5	< 1	7.8	< 1	< 10			
SJC-1	3/22/05	SF																			< 0.5	< 1	< 2.5	< 1	6.5	< 1	< 10			
SJC-1	4/28/05	ST	509	7.99	15.72	10.32															7.2	50	63	19	55	< 0.5	210			204
SJC-1	4/28/05	SF																			< 0.5	< 0.5	1.7	< 0.5	5	< 0.5	2.6			

Exceedances of Acute CTR Criteria for Saltwater are bold

Table C-11.18
Aqueous Chemistry at Ambient Coastal Receiving Water Sites

Location	Date	Type	FieldMeasurements				Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
			EC	pH	TEMP	DO																								
			µS		C	mg/L	NTU	µS		mg/L							ng/L				µg/L									mg/L
ACM-1	12/7/04	DT	2257	7.53	11.85	11.05	4.7	2090	8	3.9	0.094	0.88	0.829	0.23	< 10	< 10	31.3	<5	<5	31.4	1.1	< 1	3	< 1	18	< 1	16			815
ACM-1	12/7/04	DF																			0.72	< 1	< 2.5	3.8	19	< 1	14			
ACM-1	12/28/04	ST	454	7.32	13.04	11.46	220	403	7.8	3	0.29	2.2	2.76	0.21	530	54	32.1	<5	<5	125	6.2	31	42	9.6	43	< 1	130			145
ACM-1	12/28/04	SF																			0.86	< 1	3.7	< 1	6.6	< 1	< 10			
ACM-1	2/16/05	DT	4580	7.11	15.93	14.93	2.9	4250	8.3	4.8	< 0.05	1.9	0.522	0.173	< 10	< 10	8.8	<5	<5	<5	3.3	< 1	< 2.5	< 1	39	< 1	12			1125
ACM-1	2/16/05	DF																			2.6	< 1	< 2.5	< 1	35	< 1	19			
ACM-1	3/22/05	ST	7036	8.11	18.87	18.47	1.7	5360	8.5	3	< 0.05	0.55	0.239	0.078	< 10	< 10	17.9	<5	<5	<5	2.5	< 1	3.2	< 1	40	< 1	< 10			
ACM-1	3/22/05	SF																			1.9	< 1	< 2.5	< 1	37	< 1	< 10			
ACM-1	4/28/05	ST	804	7.84	16.86	10.25															3.7	23	30	11	34	< 0.5	120			336
ACM-1	4/28/05	SF																			< 0.5	< 0.5	2.1	< 0.5	8	< 0.5	4.2			
DAPTDC	10/13/04	DT					1.2	40800	8.1	0.53	< 0.05	0.37	0.107	0.038	< 10	< 10	<5	<5	<5	<5										
DAPTDC	4/28/05	ST					5.2	47800	7.97	< 0.5	0.1	< 0.5	0.22	0.07	17	4	<10	<10	<10	<10	0.068	1.11	2.67	0.179	0.611	< 0.005	5.68	1.07	0.012	
DAPTDC	4/28/05	SF																			0.05	0.52	1.52	0.024	0.36	< 0.005	3.9	0.984	< 0.01	
DAPTDC	4/30/05	ST					3.57	48700	7.95	< 0.4	0.1	0.5	< 0.06	< 0.06	13	6	<10	<10	<10	<10	0.057	1.08	5.17	0.228	0.607	< 0.005	7.54	1.19	0.024	
DAPTDC	4/30/05	SF																			0.051	0.525	3	0.029	0.411	< 0.005	5.63	1.03	0.005	
DAPTDC	5/2/05	ST					4.6	49000	7.9	< 0.1	0.1	< 0.5	0.19	0.07	11	4	<1000	<1000	<1000	<1000	0.246	1.83	7.77	0.352	0.761	< 0.005	11.3	1.24	0.025	
DAPTDC	5/2/05	SF																			0.059	0.455	**5.21**	0.02	0.381	< 0.005	8.12	1.1	< 0.01	
DAPTDC	6/23/05	DT					1.38	49200	8.19	< 0.4	< 0.1	0.7	0.15	< 0.06	< 5	< 1	<10	<10	<10	<10	0.066	0.685	2.52	0.151	0.03	< 0.005	6.34			
DAPTDC	6/23/05	DF																			0.062	0.255	1.47	0.02	0.566	< 0.005	5.33			
DAPTEB	10/13/04	DT					1.4	42100	8	0.53	< 0.05	0.32	0.147	0.043	< 10	< 10	<5	<5	<5	<5										
DAPTEB	4/28/05	ST					5.93	39200	7.93	0.9	0.2	< 0.5	0.52	0.32	8	2	<10	<10	<10	<10	0.248	1.05	12	0.347	2.16	< 0.005	25.6	1.17	0.039	
DAPTEB	4/28/05	SF																			0.167	0.56	**6.63**	0.032	1.52	< 0.005	21	1.01	0.012	
DAPTEB	4/30/05	ST					5.54	47300	7.89	1.1	0.1	0.6	0.25	0.07	12	7	<10	<10	<10	<10	0.29	1.13	10	0.319	2.26	< 0.005	15.5	1.12	0.021	
DAPTEB	4/30/05	SF																			0.173	0.515	3.43	0.024	1.86	< 0.005	11.2	0.981	< 0.01	
DAPTEB	5/2/05	ST					4.11	47900	7.82	< 0.1	0.1	0.6	0.21	0.08	7	1	<1000	<1000	<1000	<1000	0.273	1.02	11	0.239	2.29	< 0.005	17.7	1.22	0.01	
DAPTEB	5/2/05	SF																			0.16	0.365	4.44	0.038	1.17	< 0.005	7.79	0.739	0.016	
DAPTEB	6/23/05	DT					0.99	48300	7.73	< 0.4	< 0.1	0.8	0.19	0.14	< 5	< 1	<10	<10	<10	<10	0.29	0.695	9.68	0.223	1.31	< 0.005	22.1			
DAPTEB	6/23/05	DF																			0.286	0.245	**5.8**	0.023	1.22	< 0.005	19.3			
DAPTLB	4/28/05	ST					6.16	43700	7.93	< 0.5	0.1	0.7	0.32	0.14	12	4	<10	<10	<10	<10	0.102	1.36	8.79	0.5	0.947	< 0.005	14.2	1.38	0.034	
DAPTLB	4/28/05	SF																			0.084	0.51	3.85	0.032	0.673	< 0.005	9.99	1.1	< 0.01	
DAPTLB	4/30/05	ST					5	48800	7.85	< 0.4	0.1	< 0.5	0.13	< 0.06	8	< 1	<10	<10	<10	<10	0.085	1.29	5.86	0.341	0.727	< 0.005	7.72	1.17	0.008	
DAPTLB	4/30/05	SF																			0.078	0.605	2.36	0.019	0.458	< 0.005	5.33	0.985	< 0.01	
DAPTLB	5/2/05	ST					3.88	49000	7.85	< 0.1	< 0.1	< 0.5	0.2	0.07	8	5	<1000	<1000	<1000	<1000	0.067	0.775	3.89	0.176	0.587	< 0.005	5.67	0.138	0.026	
DAPTLB	5/2/05	SF																			0.048	0.585	1.35	0.021	0.335	< 0.005	4.33	1.12	0.014	
DAPTLB	6/23/05	DT					1.07	48900	7.76	0.6	< 0.1	0.7	0.14	< 0.06	< 5	< 1	<10	<10	<10	<10	0.226	1.94	11.5	0.756	1.26	< 0.005	16.5			
DAPTLB	6/23/05	DF																			0.24	0.305	4.31	0.04	0.822	< 0.005	11			
DAPTLR	10/13/04	DT					1.9	40800	8.1	0.57	< 0.05	0.29	0.104	0.04	< 10	< 10	<5	<5	<5	<5										
DAPTLR	4/28/05	ST					4.02	44300	7.91	< 0.5	0.1	< 0.5	0.25	0.13	< 5	< 1	<10	<10	<10	<10	0.076	1.58	5.23	0.377	0.903	< 0.005	9.3	1.19	0.045	
DAPTLR	4/28/05	SF																			0.066	0.49	2.77	0.022	0.537	< 0.005	7.43	1.02	0.015	
DAPTLR	4/30/05	ST					7.56	48600	7.91	< 0.4	0.1	< 0.5	0.18	0.07	111	71	<10	<10	<10	<10	0.091	1.61	6.53	0.394	0.9	< 0.005	10.7	1.32	0.025	
DAPTLR	4/30/05	SF																			0.079	0.555	2.7	0.03	0.558	< 0.005	5.8	1.03	< 0.01	
DAPTLR	5/2/05	ST					4.33	49100	7.88	< 0.1	< 0.1	< 0.5	0.18	0.07	7	< 1	<1000	<1000	<1000	<1000	0.068	1.04	3.68	0.241	0.601	< 0.005	5.92	1.25	0.003	
DAPTLR	5/2/05	SF																			0.054	0.565	1.33	0.03	0.405	< 0.005	3.57	1.12	0.004	
DAPTLR	6/23/05	DT					1.68	48600	8.02	< 0.4	< 0.1	0.9	0.25	< 0.06	9	4	<10	<10	<10	<10	0.34	1.14	6.55	0.415	0.942	< 0.005	13			
DAPTLR	6/23/05	DF																			0.337	0.265	2.89	0.03	0.613	< 0.005	9.53			

Exceedances of Acute CTR Criteria for Saltwater are bold

Table C-11.13
Toxicity Testing Results for Mass Loading Stations

Station	Event	Type	Chronic Sea Urchin Fertilization			Chronic Sea Urchin Development			Chronic Red Abalone Larval Development			Chronic Mysidopsis Bahia Survival and Growth									
												Survival					Growth				
			NOEC	96 hr IC_{50}	TUc	NOEC	96 hr IC_{50}	TUc	NOEC	96 hr IC_{50}	TUc	Surv in 100%	NOEC	TUc	96hr IC_{50}	TUa	Growth in 100%	NOEC	TUc	96hr IC_{50}	TUa
REFERENCE TOXICANT			$CuCl_2$						$ZnSO_4$			SDS									
LCWI02	10/18/04	FF							25.00	70.50	4.00	0.00	50.00	2.00	74.10	1.35	0.00	50.00	2.00	71.65	1.40
	1/30/05	SF	100.00	>100.00	1.00	100.00	>100.00	1.00	50.00	75.00	2.00	97.50	100.00	1.00	>100.00	0.23	20.78	100.00	1.00	>100.00	1.12
	4/29/05	SF	50.00	>100.00	2.00	100.00	>100.00	1.00				97.50	100.00	1.00	>100.00	0.23					
ACJ01	10/18/04	FF							100.00	>100.00	1.00	47.50	50.00	2.00	>100.00	1.01	14.60	100.00	1.00	>100.00	1.14
	1/28/05	SF	25.00	>100.00	4.00	100.00	>100.00	1.00	25.00	>100.00	4.00	100.00	100.00	1.00	>100.00	0.00	22.85	100.00	1.00	>100.00	1.11
	4/29/05	SF	100.00	>100.00	1.00	100.00	>100.00	1.00				90.00	100.00	1.00	>100.00	0.59	17.03	100.00	1.00	>100.00	1.13
TCOL02	10/18/04	FF							25.00	37.00	4.00	52.50	100.00	1.00	>100.00	0.99	12.70	100.00	1.00	>100.00	1.14
	1/30/05	SF	100.00	>100.00	1.00	25.00	>100.00	4.00	50.00	>100.00	2.00	92.50	100.00	1.00	>100.00	0.51	23.58	100.00	1.00	>100.00	1.11
	4/29/05	SF	50.00	>100.00	2.00	100.00	>100.00	1.00				100.00	100.00	1.00	>100.00	0.00	15.48	100.00	1.00	>100.00	1.13
SJNL01	10/18/04	FF							6.25	9.38	16.00	0.00	6.25	16.00	12.08	8.28	0.00	12.50	8.00	14.05	7.12
	1/30/05	SF	100.00	>100.00	1.00	100.00	>100.00	1.00	100.00	>100.00	1.00	97.50	100.00	1.00	>100.00	0.23	23.90	100.00	1.00	>100.00	1.11
	4/29/05	SF	50.00	>100.00	2.00	100.00	>100.00	1.00				100.00	100.00	1.00	>100.00	0.00	20.08	100.00	1.00	>100.00	1.12
PDCM01	10/18/04	FF							25.00	46.68	4.00	0.00	<50.00	>2.00	25.78	3.88	0.00	<50.00	>2.00	25.18	3.97
	1/28/05	SF	6.25	22.71	16.00	50.00	70.46	2.00	6.25	9.38	16.00	5.00	25.00	4.00	45.83	2.18	1.45	25.00	4.00	44.09	2.27
	4/29/05	SF	25.00	78.10	4.00	100.00	>100.00	1.00				87.50	100.00	1.00	>100.00	0.65	11.75	100.00	1.00	>100.00	1.14
SDCM02	10/18/04	FF							ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	1/28/05	SF	25.00	40.64	4.00	50.00	98.19	2.00	25.00	37.50	4.00	85.00	100.00	1.00	>100.00	0.69	14.50	50.00	2.00	>100.00	1.14
	4/29/05	SF	50.00	>100.00	2.00	100.00	>100.00	1.00				95.00	100.00	1.00	>100.00	0.41	13.28	100.00	1.00	>100.00	1.14

ns = no sample
FF = First Flush of storm
FF-NR = First Flush storm, No rain at site
SF = Stormwater Flow
SF-NR = Stormwater Flow, No rain at site

Table C-11.8
Aqueous Chemistry during Bioassessment Samplings

Location	Date	Type	Field Measurements				Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
			EC	pH	TEMP	DO																								
			µS		C	mg/L	NTU	µS		mg/L							ng/L				µg/L									mg/L
AC-CCR	11/4/04	DT					3	2680	8	4.8	0.051	0.34	1.47	0.26	< 10	< 10	27.1	<5	<5	<5	2.3	< 8	< 2	< 2	38	< 2	12			
AC-CCR	11/4/04	DF																			< 1	< 8	< 2	< 2	40	< 2	< 10			
AC-CCR	6/1/05	DT	3372	8.95	20.24	8.02	3.5	3840	7.95	4.9	< 0.1	0.8	0.85	0.5	14	2	<1000	<1000	<1000	<1000	1.9	0.56	2.4	< 0.5	33	< 0.5	7.2			1140
AC-CCR	6/1/05	DF																			0.67	< 0.5	1.9	< 0.5	31	< 0.5	5.9			
ACJ01	10/5/04	DT	3245	7.91	19.96	10.02	1.1	2670	8.1	5.7	0.059	0.6	1.11	0.36	< 10	< 10	28.5	<5	<5	<5	1.8	< 8	< 2	< 2	26	< 2	< 10			1000
ACJ01	10/5/04	DF																			1.6	< 8	< 2	< 2	27	< 2	< 10			
ACJ01	6/8/05	DT	2680	7.83	21.82	12.84																								1175
ACJ01	6/8/05	DF																			2.4	< 0.5	2	< 0.5	42	< 0.5	10			
AC-PPD	10/5/04	DT	2627	7.92	19.13	12.32	1.9	2300	8.1	3.7	0.1	0.64	0.583	0.17	< 10	< 10	17.8	<5	<5	<5	< 1	< 8	< 2	< 2	8.4	< 2	< 10			818
AC-PPD	10/5/04	DF																			< 1	< 8	< 2	< 2	7.6	< 2	< 10			
AC-PPD	6/1/05	DT	2976	9.02	19.52	9.86																								950
AC-PPD	6/1/05	DF																			< 0.5	< 0.5	3.2	< 0.5	17	< 0.5	8.6			
CC-CR	5/25/05	DT	895	7.74	18.77	7.6	0.96	1010	7.9	< 0.4	< 0.1	< 0.5	< 0.06	< 0.06	< 5	< 1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	0.52	< 0.5	4	< 0.5	< 2			270
CC-CR	5/25/05	DF																			< 0.5	< 0.5	0.7	< 0.5	4	< 0.5	7.9			
EC-MD	10/5/04	DT	2628	7.99	17.52	12.73	2.7	1730	8.2	< 0.44	< 0.05	0.38	0.645	0.19	11	< 10	<5	<5	<5	<5	< 1	< 8	< 2	< 2	9.1	< 2	11			646
EC-MD	10/5/04	DF																			< 1	< 8	3.5	< 2	15	< 2	35			
EC-MD	6/8/05	DT	1909	8.44	23.59	14.39	0.41	2620	8.59	< 0.5	< 0.1	0.6	0.56	0.46	< 5	< 1	<10	<10	<10	<10	< 0.5	< 0.5	2.1	< 0.5	10	< 0.5	3.8			725
EC-MD	6/8/05	DF																			< 0.5	< 0.5	2.1	< 0.5	11	< 0.5	5.5			
LC-133	11/4/04	DT					1.4	1870	8.1	0.84	< 0.05	0.36	1.32	0.21	< 10	< 10	<5	<5	<5	<5	< 1	< 8	< 2	< 2	5.6	< 2	< 10			
LC-133	11/4/04	DF																			< 1	< 8	< 2	< 2	5.7	< 2	< 10			
LC-133	6/1/05	DT	1781	9.06	17.23	9.89	0.65	1780	8.07	1.2	< 0.1	< 0.5	0.69	0.65	< 5	< 1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	0.97	< 0.5	9	< 0.5	3.8			565
LC-133	6/1/05	DF																			< 0.5	< 0.5	1	< 0.5	9.5	< 0.5	2			
REF-BC	10/5/04	DT	982	7.25	17.35	6.5	1.1	782	7.5	< 0.44	< 0.05	< 0.2	0.089	< 0.01	< 10	< 10	<5	<5	<5	<5	< 1	< 8	< 2	< 2	< 4	< 2	< 10			412
REF-BC	6/8/05	DT	679	7.51	15.75	11.64	0.18	797	7.91	< 0.5	0.1	< 0.5	0.06	< 0.06	< 5	< 1	<10	<10	<10	<10	< 0.5	< 0.5	< 0.5	< 0.5	2.7	< 0.5	< 2			285
REF-BC	6/8/05	DF																			< 0.5	< 0.5	< 0.5	< 0.5	2.9	< 0.5	2.3			
REF-CS	11/11/04	DT					0.6	579	8.3	< 0.44	< 0.05	< 0.2	< 0.0305	0.016	< 10	< 10	<5	<5	<5	<5	< 0.5	< 1	< 2.5	< 1	< 4	< 1	< 10			
REF-CS	11/11/04	DF																			< 0.5	< 1	2.5	4.3	< 4	< 1	< 10			
REF-CS	5/18/05	DT	436	8.47	18.51	11.13	0.42	431	8.04	< 0.1	< 0.1	< 0.5	< 0.06	< 0.06	< 5	< 1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	0.71	< 0.5	1.5	< 0.5	2.8			
REF-CS	5/18/05	DF																			< 0.5	< 0.5	1.6	< 0.5	1.8	< 0.5	5			
REF-SVC	11/11/04	DT					0.35	1340	8.2	0.97	< 0.05	< 0.2	0.126	0.019	< 10	< 10	<5	<5	<5	<5	< 0.5	< 1	2.8	1	8.4	< 1	16			
REF-SVC	11/11/04	DF																			< 0.5	< 1	2.9	1.2	8	< 1	17			
REF-TCAS	6/8/05	DT	497	7.76	15.18	12.31	0.28	600	8.13	< 0.5	0.2	< 0.5	< 0.06	< 0.06	< 5	< 1	<10	<10	<10	<10	< 0.5	< 0.5	< 0.5	< 0.5	2.1	< 0.5	< 2			210
REF-TCAS	6/8/05	DF																			< 0.5	< 0.5	< 0.5	< 0.5	2.1	< 0.5	< 2			

Table C-11.8
Aqueous Chemistry during Bioassessment Samplings

Location	Date	Type	Field Measurements				Turbidity	Specific Conductance	pH	Nitrate as NO_3	Ammonia as N	TKN	Total Phosphate as PO_4	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
			EC	pH	TEMP	DO	NTU	µS		mg/L							ng/L				µg/L									mg/L
SC-MB	11/4/04	DT					3.2	4160	8.1	9.2	0.11	1.4	2.64	0.41	< 10	< 10	125	<5	<5	<5	2	< 8	5.8	< 2	21	< 2	18			
SC-MB	11/4/04	DF																			2	< 8	4.1	< 2	22	< 2	14			
SC-MB	6/1/05	DT	4057	8.83	18.43	8.44	6.2	4500	7.85	10.2	0.4	2.8	1.2	1.08	12	3	<1000	<1000	<1000	<1000	1.1	1.4	5.4	< 0.5	26	< 0.5	16			1225
SC-MB	6/1/05	DF																			0.51	0.78	3.7	< 0.5	26	< 0.5	13			
SD-AP	10/4/04	DT	4133	8.12	14.19	14.38	0.8	4910	8.1	13	< 0.05	0.83	1.23	0.4	< 10	< 10	83.5	<5	<5	<5	2.6	< 8	< 2	< 2	43	< 2	< 10			1564
SD-AP	10/4/04	DF																			2	< 8	2.5	< 2	63	< 2	19			
SD-AP	5/25/05	DT	4730	7.93	16.53	10.48	2.6	530	7.88	13.4	< 0.1	1.1	0.82	0.64	6	< 1	<1000	<1000	<1000	<1000	3	0.59	2.6	< 0.5	63	< 0.5	6.4			1435
SD-AP	5/25/05	DF																			1.5	0.51	2.5	< 0.5	68	< 0.5	7			
SJC-74	10/14/04	DT	1843	7.18	19.82	5.4	69	1750	7.4	< 0.44	< 0.05	0.35	1.38	0.024	54	12	<5	<5	<5	<5	< 1	< 8	4.7	< 2	5.8	< 2	14			578
SJC-74	10/14/04	DF																			< 1	< 8	3.9	< 2	5.7	< 2	39			
SJC-74	5/18/05	DT	746	8.13	17.26	11.7	1.11	840	7.87	1.8	< 0.1	< 0.5	0.18	0.11	< 5	< 1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	1.2	< 0.5	3.5	< 0.5	2.6			
SJC-74	5/18/05	DF																			< 0.5	< 0.5	1.1	< 0.5	3.4	< 0.5	3.8			
SJC-CC	10/14/04	DT	3319	7.39	18.61	5.56	17	3160	7.1	0.97	0.091	0.72	0.338	0.014	10	< 10	19.5	<5	<5	<5	< 1	< 8	8.8	< 2	15	< 2	42			1120
SJC-CC	10/14/04	DF																			< 1	< 8	< 2	< 2	14	< 2	55			
SJC-CC	5/18/05	DT	1013	8.37	22.99	10.75	0.15	1130	8.14	1.5	0.1	< 0.5	0.24	0.13	< 5	< 1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	2.1	< 0.5	6.8	< 0.5	4.6			
SJC-CC	5/18/05	DF																			< 0.5	1.2	1.8	< 0.5	6.8	< 0.5	4.4			
TC-AP	10/4/04	DT	1134	8.03	18.42	15.38	1.7	1270	8.2	< 0.44	< 0.05	< 0.2	0.0921	0.076	< 10	< 10	<5	<5	<5	<5	< 1	< 8	< 2	< 2	< 4	< 2	< 10			464
TC-AP	10/4/04	DF																			< 1	< 8	2.5	< 2	< 4	< 2	15			
TC-AP	5/25/05	DT	1029	7.93	18.29	12.8	2.8	1170	8.3	1.4	< 0.1	< 0.5	0.31	0.14	12	< 1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	0.96	< 0.5	5.7	< 0.5	2.7			320
TC-AP	5/25/05	DF																			< 0.5	< 0.5	0.91	< 0.5	6.1	< 0.5	5.9			
TC-DO	10/14/04	DT	2448	8.53	21.46	12.05	1.7	2350	8.5	0.92	< 0.05	1	0.135	0.037	< 10	< 10	19.5	<5	<5	<5	< 1	< 8	6.3	< 2	17	< 2	22			838
TC-DO	10/14/04	DF																			< 1	< 8	6.8	< 2	18	< 2	57			
TC-DO	5/25/05	DT	1847	8.52	24.7	11.73	0.67	2020	8.5	< 0.4	< 0.1	< 0.5	0.09	< 0.06	< 5	< 1	<1000	<1000	<1000	<1000	< 0.5	< 0.5	1.7	< 0.5	9.5	< 0.5	3			595
WC-WCT	11/4/04	DT					9.9	1520	8.3	12	< 0.05	0.7	2.21	0.37	34	< 10	<5	<5	<5	<5	< 1	< 8	4.3	< 2	9.5	< 2	< 10			
WC-WCT	11/4/04	DF																			< 1	< 8	2.2	< 2	8.3	< 2	< 10			

Table C-11.7
Toxicity Testing Results for the 2004/05 Bioassessment Samplings

		Acute Hyallela Azteca Survival		Chronic Selenastrum Algae Growth			Chronic Ceriodaphnia Survival and Reproduction										Chronic Fathead Larvae Survival and Growth									
							Survival					Reproduction					Survival					Growth				
Station	Event	Surv in 100%	TUa	NOEC	TUc	96 hr IC_{50}	Surv in 100%	NOEC	TUc	7day IC_{50}	TUa	Repro in 100%	NOEC	TUc	7day IC_{50}	TUa	Surv in 100%	NOEC	TUc	96 hr IC_{50}	TUa	Growth in 100%	NOEC	TUc	96 hr IC_{50}	TUa
Reference Toxicant					$ZnCl_2$						$CuCl_2$														$CuCl_2$	
ACJ01	10/5/04	100	0.00	100.00	1.00	>100.00	90.00	100.00	1.00	>100.00	0.59	17.50	100.00	1.00	>100.00	1.13	95.00	100.00	1.00	>100.00	0.41	68.28	100.00	1.00	>100.00	0.88
	6/8/05	90	0.59	100.00	1.00	>100.00	10.00	50.00	2.00	75.00	1.33	10.50	25.00	4.00	72.94	1.37										
AC-CCR	11/4/04	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	28.80	100.00	1.00	>100.00	1.09	97.50	100.00	1.00	>100.00	0.23	57.80	100.00	1.00	>100.00	0.96
	6/1/05	90	0.59	100.00	1.00	>100.00	90.00	100.00	1.00	>100.00	0.59	21.30	100.00	1.00	>100.00	1.12										
AC-PPD	10/5/04	100	0.00	100.00	1.00	>100.00	80.00	100.00	1.00	>100.00	0.77	21.60	100.00	1.00	>100.00	1.11	92.50	100.00	1.00	>100.00	0.51	68.20	100.00	1.00	>100.00	0.88
	6/1/05	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	25.90	100.00	1.00	>100.00	1.10										
CC-CR	10/4/04	DRY																								
	5/25/05	90	0.59	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	38.60	100.00	1.00	>100.00	1.05										
EC-MD	10/5/04	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	23.60	100.00	1.00	>100.00	1.11										
	6/8/05	100	0.00	100.00	1.00	>100.00	70.00	100.00	1.00	>100.00	0.87	32.40	100.00	1.00	>100.00	1.08										
LC-133	11/4/04	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	34.20	100.00	1.00	>100.00	1.07										
	6/1/05	90	0.59	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	30.00	100.00	1.00	>100.00	1.09										
PD-CGV																										
REF-BC	10/5/04	100	0.00	100.00	1.00	>100.00	90.00	100.00	1.00	>100.00	0.59	18.10	100.00	1.00	>100.00	1.13										
	6/8/05	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	29.70	100.00	1.00	>100.00	1.09										
REF-CS	11/11/04	85	0.69	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	36.60	100.00	1.00	>100.00	1.06										
	5/18/05	95	0.41	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	41.70	100.00	1.00	>100.00	1.04										
REF-DLR																										
REF-SVC	11/11/04	100	0.00	100.00	1.00	>100.00	80.00	100.00	1.00	>100.00	0.77	26.50	100.00	1.00	>100.00	1.10										
REF-TCAS	10/5/04	DRY																								
	6/8/05	100	0.00	100.00	1.00	>100.00	80.00	100.00	1.00	>100.00	0.77	28.20	100.00	1.00	>100.00	1.09										
SC-MB	11/4/04	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	32.20	100.00	1.00	>100.00	1.08										
	6/1/05	90	0.59	100.00	1.00	>100.00	20.00	50.00	2.00	78.57	1.27	4.40	50.00	2.00	74.13	1.35										
SD-AP	10/4/04	100	0.00	100.00	1.00	>100.00	80.00	100.00	1.00	>100.00	0.77	1.80	25.00	4.00	40.15	2.49										
	5/25/05	100	0.00	100.00	1.00	>100.00	0.00	25.00	4.00	50.00	2.00	2.60	50.00	2.00	65.97	1.52										
SJC-CC	10/14/04	100	0.00	100.00	1.00	>100.00	20.10	100.00	1.00	>100.00	1.12	90.00	100.00	1.00	>100.00	0.59										
	5/18/05	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	40.80	100.00	1.00	>100.00	1.04										
SJC-74	10/14/04	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	26.10	100.00	1.00	>100.00	1.10										
	5/18/05	90	0.59	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	37.30	100.00	1.00	>100.00	1.06										
TC-AP	10/4/04	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	17.10	100.00	1.00	>100.00	1.13										
	5/25/05	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	30.30	100.00	1.00	>100.00	1.08										
TC-DO	10/14/04	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	26.80	100.00	1.00	>100.00	1.10										
	5/25/05	95	0.41	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	38.30	100.00	1.00	>100.00	1.05										
WC-WCT	11/4/04	100	0.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	25.80	100.00	1.00	>100.00	1.10										