

Table 4-4a. Comparison of 2000-01 Mass Emissions Results with Standards

Class Constituent	Data Included Since ^h	DL	Units	Guidelines and Standards					Mass Emission														
				Ocean Plan ^g	Basin Plan ^g	AB 411	California Toxics Rule (freshwater) ^d	California Toxics Rule (saltwater) ^d	No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV									
Miscellaneous Constituents																							
Cyanide	96	0.01	mg/l	0.004 ^a	0.2		0.0052	0.001	30	0	100	0.013	0.005	1.51									
TPH	94	1	mg/l						30	0	100	2	1	1.13									
Oil and Grease	94	1	mg/l	25 ^b					30	0	100	2	1	1.10									
Total Phenols	94	0.1	mg/l						30	0	100	0	0	0.00									
Indicator Bacteria																							
Total Coliform	94	20	MPN/100ml	1000 ^b	70	10,000 (Instantaneous)			34	0	100	1,674,426	500,000	2.02									
Fecal Coliform	94	20	MPN/100ml	200 ^b	200	400 (Instantaneous) 10% (Instantaneous) if Total Coliform is between 1000 & 10,000			34	0	100	938,381	140,000	2.95									
Ratio Fecal Coliform/Total Coliform	94								5	0	100	66.88%	63.64%	0.55									
Fecal Streptococcus	94	20	MPN/100ml						34	0	100	968,317	160,000	3.00									
Fecal Enterococcus	94	20	MPN/100ml	24 ^b		104			34	0	100	291,022	50,000	2.03									
General Minerals																							
Ammonia	94	0.1	mg/l	2.4 ^a	6.8				47	1	98	0.65	0.15	2.06									
Calcium	96	1.0	mg/l						50	0	100	49.94	40.08	0.75									
Magnesium	96	1.0	mg/l						50	0	100	25.34	12.86	1.37									
Potassium	94	1.0	mg/l						50	0	100	5.40	4.46	0.69									
Sodium	96	1.0	mg/l						50	0	100	50.24	35.10	0.85									
Bicarbonate	94	2.0	mg/l						50	0	100	117.53	104.10	0.64									
Carbonate	94	2.0	mg/l						50	1	98	0.61	0.05	7.07									
Chloride	94	2.0	mg/l						50	0	100	54.64	43.05	0.84									
Fluoride	94	0.1	mg/l		2.4				50	0	100	0.21	0.18	0.58									
Nitrate	94	0.1	mg/l						50	0	100	7.76	4.87	1.09									
Sulfate	94	0.1	mg/l						50	0	100	138.05	63.30	1.34									
Alkalinity	94	4.0	mg/l						50	0	100	96.85	85.50	0.65									
Hardness	96	2.0	mg/l						50	0	100	228.83	150.00	0.92									
COD	97	5	mg/l						50	0	100	74.02	64.25	0.69									
pH	94	0-14			<6.5 & >8.5				50	0	100	7.38	7.28	0.07									
Specific Conductance	94	1.0	umhos/cm						50	0	100	2.51	484.00	0.90									
Total Dissolved Solids	96	2.0	mg/l		250				50	0	100	419.44	305.00	0.90									
Turbidity	94	0.1	NTU	75 ^b					50	0	100	90.46	44.20	1.72									
Total Suspended Solids	96	2.0	mg/l						50	0	100	237.66	123.50	1.39									
Volatile Suspended Solids	94	1.0	mg/l/hr						50	0	100	45.80	33.00	0.98									
MBAS	97	0.05	mg/l		0.5				50	0	100	0.09	0.08	0.84									
Total Organic Carbon	94	1.0	mg/l						50	0	100	11.23	7.77	1.02									
BOD	94	2.0	mg/l						50	0	100	7.80	5.80	1.13									
Nutrients																							
Dissolved Phosphorus	94	0.05	mg/l						49	0	100	0.34	0.21	6.10									
Total Phosphorus	94	0.05	mg/l						49	0	100	0.39	0.29	6.32									
NH3-N	94	0.1	mg/l	2.4 ^a	2.7				48	1	98	0.52	0.12	2.14									
Nitrate-N	96	0.1	mg/l			10 and also must not exceed 5 when added to Nitrite-N			50	0	100	1.77	1.10	1.08									
Nitrite-N	94	0.1	mg/l			1 and also must not exceed 5 when added to Nitrate-N			50	0	100	0.22	0.08	1.63									
TKN	96	0.1	mg/l						49	0	100	2.51	1.72	0.80									
Metals																							
Dissolved Aluminum	96	100	µg/l						50	43	14	S.I.D	S.I.D	S.I.D									
Total Aluminum	96	100	µg/l		1000				50	12	76	333.89	S.I.D	1.74									
Dissolved Antimony	97	5	µg/l						50	50	0	S.I.D	0.00	S.I.D									

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Total Antimony	97	5	µg/l	1200 ^b	6				50	50	0	S.I.D	S.I.D	S.I.D
Dissolved Arsenic	97	5	µg/l				150	36	50	50	0	S.I.D	S.I.D	S.I.D
Total Arsenic	97	5	µg/l	32 ^a	50				50	50	0	S.I.D	S.I.D	S.I.D
Dissolved Barium	97	10	µg/l						50	0	100	S.I.D	S.I.D	0.39
Total Barium	97	10	µg/l		1000				50	0	100	36.54	S.I.D	0.48
Dissolved Beryllium	97	1	µg/l						50	50	0	0.00	0.00	S.I.D
Total Beryllium	97	1	µg/l	0.033 ^b	4				50	50	0	S.I.D	0.000	S.I.D
Dissolved Boron	97	100	µg/l						50	12	76	S.I.D	S.I.D	0.81
Total Boron	97	100	µg/l		1000				50	6	88	204.38	S.I.D	0.64
Dissolved Cadmium	97	1	µg/l				2.2	9.3	50	49	2	0.03	0.00	S.I.D
Total Cadmium	97	1	µg/l	4 ^a	5				50	48	4	S.I.D	0.00	S.I.D
Dissolved Chromium	97	5	µg/l				180		50	47	6	S.I.D	S.I.D	S.I.D
Total Chromium	97	5	µg/l	190 ^b	50				50	47	6	S.I.D	S.I.D	S.I.D
Dissolved Chromium +6	94	10	µg/l				11	50	50	50	0	S.I.D	S.I.D	S.I.D
Total Chromium +6	94	10	µg/l	8 ^a					50	50	0	S.I.D	S.I.D	S.I.D
Dissolved Copper	97	5	µg/l				9	3.1	50	26	48	S.I.D	S.I.D	1.14
Total Copper	97	5	µg/l	12 ^a					50	1	98	11.13	S.I.D	0.80
Dissolved Iron	94	100	µg/l						50	25	50	116.20	50.00	1.25
Total Iron	94	100	µg/l						50	6	88	577.08	335.00	1.87
Dissolved Lead	97	5	µg/l				2.5	8.1	50	50	0	0.00	0.00	S.I.D
Total Lead	97	5	µg/l	8 ^a					50	41	18	S.I.D	0.00	S.I.D
Dissolved Manganese	98	100	µg/l						50	49	2	S.I.D	S.I.D	S.I.D
Total Manganese	98	100	µg/l						50	43	14	S.I.D	S.I.D	S.I.D
Dissolved Mercury	94	1	µg/l						49	49	0	S.I.D	S.I.D	S.I.D
Total Mercury	94	1	µg/l	0.16 ^a	2				49	49	0	S.I.D	S.I.D	S.I.D
Dissolved Nickel	97	5	µg/l				52	8.2	50	23	54	S.I.D	S.I.D	1.07
Nickel	97	5	µg/l	20 ^a	100				50	16	68	5.87	S.I.D	0.94
Dissolved Selenium	94	5	µg/l				5 ^a	71	50	49	2	0.14	0.00	S.I.D
Total Selenium	94	5	µg/l	60 ^a	50				50	49	2	S.I.D	0.00	S.I.D
Dissolved Silver	97	1	µg/l				3.4 ^f	1.9 ^f	50	50	0	S.I.D	S.I.D	S.I.D
Total Silver	97	1	µg/l	2.8 ^a					50	50	0	S.I.D	S.I.D	S.I.D
Dissolved Thallium	97	5	µg/l						50	50	0	S.I.D	S.I.D	S.I.D
Total Thallium	97	5	µg/l	14 ^b	2				50	50	0	S.I.D	S.I.D	S.I.D
Dissolved Zinc	94	50	µg/l				120	81	50	39	22	S.I.D	S.I.D	2.44
Total Zinc	94	50	µg/l	80 ^a					50	32	36	35.04	S.I.D	1.95
SVOCs														
Bis(2-ethylhexyl)phthalate	99	1	µg/l	3.5 ^b					6	2	67	3.75	3.55	0.99
PAHs				0.0088 ^c										
Acenaphthene	99	0.05	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Acenaphthylene	99	0.05	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Anthracene	99	0.05	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Benzo(a)anthracene	99	0.1	µg/l		2				6	6	0	S.I.D	S.I.D	S.I.D
Benzo(a)pyrene	99	0.1	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Benzo(b)fluoranthene	99	0.1	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Benzo(k)fluoranthene	99	0.1	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Chrysene	99	0.1	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Dibenz(a,h)anthracene	99	0.1	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Fluoranthene	99	0.1	µg/l	15 ^b					6	6	0	S.I.D	S.I.D	S.I.D
Fluorene	99	0.1	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Indeno (1,2,3-cd)pyrene	99	0.1	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Naphthalene	99	0.05	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Phenanthrene	99	0.05	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
Pyrene	99	0.05	µg/l						6	6	0	S.I.D	S.I.D	S.I.D
All other SVOCs	94	0.05-5.0	µg/l						438	438	0	S.I.D	S.I.D	S.I.D

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Pesticides																							
Organochlorine Pesticides & PCBs	94	0.05-1.0	µg/l	0.000019 ^b	0.00007		0.014	0.03	10	10	0	S.I.D.	S.I.D.	S.I.D.									
Carbofuran	96	5	µg/l						18	50	50	0	S.I.D.	S.I.D.	S.I.D.								
Glyphosate	98	25	µg/l						700	50	50	0	S.I.D.	S.I.D.	S.I.D.								
Organo-Phosphate Pesticides																							
Diazinon	96	0.01	µg/l						50	50	0	S.I.D.	S.I.D.	S.I.D.									
Chlorpyrifos	96	0.05	µg/l						50	50	0	S.I.D.	S.I.D.	S.I.D.									
N- and P-Containing Pesticides																							
Thiobencarb	96	1	µg/l						50	50	0	S.I.D.	S.I.D.	S.I.D.									
All other N- and P- Pesticides	94	1.0-2.0	µg/l						400	400	0	S.I.D.	S.I.D.	S.I.D.									
Phenoxyacetic Acid Herbicides																							
2,4-D	96	10	µg/l						10	10	0	S.I.D.	S.I.D.	S.I.D.									
2,4,5-TP	96	1	µg/l						10	10	0	S.I.D.	S.I.D.	S.I.D.									
Bentazon	96	2	µg/l						9	9	0	S.I.D.	S.I.D.	S.I.D.									

CV = Coefficient of variation

DL = Detection Limit

S.I.D. = Statistically Invalid Data, not enough data above detection limit collected

a) Criteria based on daily maximum

b) Criteria based on 30-day average

c) Criteria for the sum of acenaphthylene, anthracene, 1,2-benzanthracene, 3,4-benzofluoranthene, benzo(k)fluoranthene, 1,12-benzoperylene, benzo(a)pyrene, chrysene, dibenzo(ah)anthracene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene and pyrene.

d) Criteria continuous concentration which equals the highest concentration of pollutant to which aquatic life can be exposed for an extended period time (4 days) without deleterious effects.

e) Criterion expressed in the total recoverable form.

f) Criteria maximum concentration which equals the highest concentration of pollutant to which aquatic life can be exposed for a short period time without deleterious effects.

g) Except for indicator bacteria, there are no numerical water quality standards that apply to stormwater or "non-point source" pollution. Current federal and state numerical standards apply only to "point source pollution," such as sanitary sewage, industrial and commercial discharges to the ocean, and other waterbodies. Water quality standards described in the 1995 Los Angeles Region Basin Plan or the 1997 California Ocean Plan do not apply to stormwater runoff, and any exceedance of values should not indicate violation nor noncompliance with the plans. Furthermore, a direct comparison of the sampling results with the Ocean Plan standards cannot be made since the results presented in the table are detected values before dilution, a factor allowed by the Ocean Plan.

h) Detection limits have changed throughout the monitoring process. Only data matching the current detection limit is displayed in this table. The *Data Included Since* field indicates the first year of the storm season with the current detection limit.