

Table 4-5. Comparison of 1997-98 Results with Standards

Class Constituent	DL	Units	Standards			Mass Emission				
			Ocean Plan ^{f,g}	Basin Plan ^g	California Toxics Rule ^a	No. Of Samples	Percent Detects	Mean	Median	CV
Conventional										
Cyanide	0.01	mg/l	0.01		0.022	28	21	0.06	0.02	1.09
TPH	1	mg/l				28	32	2.6	1.4	0.83
Oil and Grease	1	mg/l		Waters shall not contain concentrations that cause nuisance, or that otherwise adversely affect beneficial use.		28	32	3.5	0.8	1.83
Total Phenols	0.1	mg/l				28	4	0	n/m	n/m
Indicator Bacteria										
Total Coliform	20	MPN/100ml	^(e) 1,000 organisms/100 ml provided that not more than 20% of the samples at any sampling station may exceed 1,000/100 ml and provided that no single sample when verified by a repeat sample taken within 48 hours shall exceed 10,000/100	^(e) For all waters where shellfish are harvested, concentration shall not exceed 70/100 ml, nor shall more than 10% of the samples collected exceed 230/100 for a 5-tube decimal dilution test		28	100	3.22E+06	5.00E+05	1.69
Fecal Coliform	20	MPN/100ml	^(e) Shall not exceed a geometric mean of 200 organisms per 100 ml nor shall more than 10% of the total samples during any 60-day period exceed 400 per 100 ml.	Shall not exceed a log mean of 200/100 ml (min. of 4 samples for any 30-day period), nor shall more than 10% of samples collected during any 30-day period exceed 400/100 ml.		28	100	2.76E+06	1.20E+06	2.03
Fecal Streptococcus	20	MPN/100ml				28	100	1.07E+06	2.05E+06	2.87
General										
Ammonia	0.1	mg/l	6	6.8		45	100	1.1	0.72	0.94
Calcium	1.0	mg/l				37	100	40	36	0.65
Magnesium	1.0	mg/l				37	100	15	8.8	1.04
Potassium	1.0	mg/l				44	100	4.7	4.5	0.49
Sodium	1.0	mg/l				45	100	41	28	0.93
Bicarbonate	2.0	mg/l				39	100	82	70	0.71
Carbonate	2.0	mg/l				39	0	n/m	n/m	n/m
Chloride	2.0	mg/l				39	100	42	36	0.87
Fluoride	0.1	mg/l				39	67	0.22	0.18	0.54
Nitrate	0.1	mg/l				39	100	5.7	5.1	0.75
Sulfate	0.1	mg/l				39	100	98	58	1.12
Alkalinity	4.0	mg/l				39	100	82	70	0.71
Hardness	2.0	mg/l				37	100	158	128	0.83
Dissolved Phosphorus	0.05	mg/l				42	100	0.49	0.46	0.52
Total Phosphorus	0.05	mg/l	Nutrient Materials: shall not cause objectionable aquatic growths or degrade indigenous biota.	Shall not cause objectionable aquatic growths or degrade indigenous biota.		42	100	0.59	0.51	0.56
COD	5	mg/l				45	100	106	83	0.72
pH	0-14		Shall not be changed at any time more than 0.2 units from that which occurs naturally	pH of bays or estuaries shall not be depressed below 6.5 or raised above 8.5.		39	100	7.4	7.4	0.07
NH3-N	0.1	mg/l	6			45	100	0.88	0.59	0.93
Nitrate-N	0.1	mg/l				36	97	1.4	1.2	0.72
Nitrite-N	0.1	mg/l				40	83	0.19	0.12	1.06
TKN	0.1	mg/l				44	100	3.3	2.8	0.69
Specific Conductance	1.0	umhos/cm				37	100	504	377	0.81
Total Dissolved Solids	2.0	mg/l				37	100	314	242	0.81

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Turbidity	0.1	NTU		Where natural turbidity is between 0 and 50 NTU, increases shall not exceed 20%; Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.		39	100	162	95	1.09
Total Suspended Solids	2.0	mg/l				38	100	384	248	1.01
Volatile Suspended Solids	1.0	mg/l				38	100	71	50	0.97
MBAS	0.05	mg/l		0.5 mg/L for waters designated MUN		44	32	0.1	0.09	0.46
Total Organic Carbon	1.0	mg/l				43	100	12	10	0.67
BOD	2.0	mg/l				36	100	27	25	0.54
Metals										
Dissolved Aluminum	100	µg/l				46	80	2220	1750	0.95
Total Aluminum	100	µg/l				46	96	5364	2945	1.72
Dissolved Antimony	5	µg/l				46	4	5.5	n/m	0.13
Total Antimony	5	µg/l	1200 ^p		4300	46	4	6.0	n/m	1
Dissolved Arsenic	5	µg/l				46	2	7.6	n/m	n/m
Total Arsenic	5	µg/l	80			46	20	8.7	7.3	0.45
Dissolved Barium	10	µg/l				46	78	66	57	0.53
Total Barium	10	µg/l				46	78	135	93	0.99
Dissolved Beryllium	1	µg/l				44	0	n/m	n/m	n/m
Total Beryllium	1	µg/l	0.033			46	0	n/m	n/m	n/m
Dissolved Boron	100	µg/l				46	93	240	216	0.45
Total Boron	100	µg/l				46	98	319	286	0.4
Dissolved Cadmium	1	µg/l	10		2.9	46	30	3.6	2.8	0.83
Total Cadmium	1	µg/l				46	41	3.3	2.5	0.84
Dissolved Chromium	5	µg/l				46	24	16	14	0.57
Total Chromium	5	µg/l				46	67	24	14	0.97
Dissolved Chromium +6	10	µg/l			16	46	0	n/m	n/m	n/m
Total Chromium +6	10	µg/l	20			46	0	n/m	n/m	n/m
Dissolved Copper	5	µg/l			4.8	46	80	38	20	1.38
Total Copper	5	µg/l	30			46	96	48	28	1.58
Dissolved Iron	100	µg/l				46	80	3068	1560	1.24
Total Iron	100	µg/l				46	96	12833	9000	1
Dissolved Lead	5	µg/l			50	46	48	79	31	1.48
Total Lead	5	µg/l	20			46	67	105	28	2.27
Dissolved Manganese	100	µg/l				46	50	269	180	0.64
Total Manganese	100	µg/l				46	87	295	195	0.78
Dissolved Mercury	1	µg/l				44	0	n/m	n/m	n/m
Total Mercury	1	µg/l	0.4		0.051	44	2	1.8	n/m	n/m
Dissolved Nickel	5	µg/l			74	46	57	14	8.9	0.93
Nickel	5	µg/l			50	46	70	21	14	0.92
Dissolved Selenium	5	µg/l				46	0	n/m	n/m	n/m
Total Selenium	5	µg/l	150		290	46	0	n/m	n/m	n/m
Dissolved Silver	1	µg/l			2.1	46	0	n/m	n/m	n/m
Total Silver	1	µg/l	7			46	9	1.7	1.1	0.71
Dissolved Thallium	5	µg/l				46	0	n/m	n/m	n/m
Total Thallium	5	µg/l	14 ^b		6.3	46	0	n/m	n/m	n/m
Dissolved Zinc	50	µg/l			86	46	52	356	240	1.1
Total Zinc	50	µg/l	200			46	93	330	213	1.2

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Semi-Volatile Organics										
Bis(2-ethylhexyl)phthalate	3	µg/l	3.5			42	86	20	15	0.82
All other SVOCs	0.5-5.0	µg/l				42	0	n/m	n/m	n/m
Pesticides										
Organochlorine Pesticides & PCBs	0.05-2.0	µg/l	0.000019 ^c	70 pg/l ^d	0.00017	41	0	n/m	n/m	n/m
Diazinon	0.01	µg/l				41	2	0.01	n/m	n/m
Chlorpyrifos	0.05	µg/l				41	0	n/m	n/m	n/m
Other N- and P-Containing Pesticides	1.0-2.0	µg/l				41	0	n/m	n/m	n/m
Carbofuran	5	µg/l				45	0	n/m	n/m	n/m
Chlorinated Herbicides & Bentazon										
2,4-D	10	µg/l				43	0	n/m	n/m	n/m
2,4,5-TP	1	µg/l				43	0	n/m	n/m	n/m
Bentazon	2	µg/l				43	0	n/m	n/m	n/m
Glyphosate	25	µg/l				45	0	n/m	n/m	n/m

n/m = Not meaningful, not enough data above detection limit collected

- a) Assume acute criteria for freshwater and saltwater organisms, and organism consumption for human health criteria
- b) Maximum Contaminant Level is based on 30-day averages
- c) Sum of chlorinated biphenyls whose analytical characteristics resemble those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1261
- d) 70 pg/l (30-day average) to protect human health and 14 ng/l and 30 ng/l to protect aquatic life in inland fresh waters and estuarine waters respectively
- e) Based on a minimum of not less than five samples for any 30-day period
- f) Assume criteria based on daily maximum
- g) There are no numerical water quality standards that apply to stormwater or "non-point source" pollution. Current federal and state 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.