Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - BALLONA CREEK

Beneficial Uses[j]: REC-1, REC-2, WARM, WILD

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a		0.07	0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.005
pH	Comp	0-14			6.5 < pH < 8.5		8.53
Dissolved Oxygen	Grab	1.00	mg/L		> 5		10.12
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		110000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		50000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.45
Fecal Streptococcus	Grab	20.00	MPN/100ml				300000
Fecal Enterococcus	Grab		MPN/100ml		104		240000
General							
Chloride	Comp	2.00	mg/L		500		121
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.2
Nitrate	Comp	0.10	mg/L				3.1
Sulfate	Comp	0.10	mg/L		500		193
Alkalinity	Comp	4.00	mg/L				244.2
Hardness	Comp	2.00	mg/L				435
COD	Comp	10.00	mg/L				90.7
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1134
Total Dissolved Solids	Comp	2.00	mg/L		2000		740
Turbidity	Comp	0.10	NTU	225a			0.6
Total Suspended Solids	Comp	2.00	mg/L				2
Volatile Suspended Solids	Comp	1.00	mg/L				1
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				5.39
BOD	Comp	2.00	mg/L				6.26
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.125
Total Phosphorus	Comp	0.05	mg/L				0.136
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0.7
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.295
Kjeldahl-N	Comp	0.10	mg/L				0.132
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		153
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0
Dissolved Arsenic	Comp	5.00	ug/l				3.27
Total Arsenic	Comp	5.00	ug/l	32a	50		3.27
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			6.6	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			593.4	0.945
Total Chromium	Comp	5.00	ug/l		50		0.945
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			31.5	4.58
Total Copper	Comp	5.00	ug/l	12a			11.4
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				156
Dissolved Lead	Comp	5.00	ug/l			16.4	0
Total Lead	Comp	5.00	ug/l	8a			2.37
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			180.4	4.27
Total Nickel	Comp	5.00	ug/l	20a	100		6.19
Dissolved Selenium	Comp	5.00	ug/l				6
Total Selenium	Comp	5.00	ug/l	60a	50		6
Dissolved Silver[f]	Comp	1.00	ug/l			43.3	0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			410.6	0
Total Zinc	Comp	50.00	ug/l	80a			35
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				16.5
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0.9
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l	0.008k			0
beta-BHC	Comp	0.05	ug/l				0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - BALLONA CREEK

Beneficial Uses[j]: REC-1, REC-2, WARM, WILD

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a		0.07	2.7
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		6.91
Dissolved Oxygen	Grab	1.00	mg/L		> 5		7.94
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		500000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		130000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.26
Fecal Streptococcus	Grab	20.00	MPN/100ml				90000
Fecal Enterococcus	Grab		MPN/100ml		104		90000
General							
Chloride	Comp	2.00	mg/L		500		21.4
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.27
Nitrate	Comp	0.10	mg/L				4.75
Sulfate	Comp	0.10	mg/L		500		32.7
Alkalinity	Comp	4.00	mg/L				77
Hardness	Comp	2.00	mg/L				108
COD	Comp	10.00	mg/L				43.1
TPH	Grab	1.00	mg/L				1.1
Specific Conductance	Comp	1.00	umhos/cm				321
Total Dissolved Solids	Comp	2.00	mg/L		2000		230
Turbidity	Comp	0.10	NTU	225a			57.5
Total Suspended Solids	Comp	2.00	mg/L				190
Volatile Suspended Solids	Comp	1.00	mg/L				85
MBAS	Comp	0.05	mg/L		0.5		0.14
Total Organic Carbon	Comp	1.00	mg/L				12.41
BOD	Comp	2.00	mg/L				37.1
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.376
Total Phosphorus	Comp	0.05	mg/L				0.437
NH3-N	Comp	0.10	mg/L				1.03
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.07
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.59
Kjeldahl-N	Comp	0.10	mg/L				2.16
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		163
Dissolved Antimony	Comp	5.00	ug/l				2.85
Total Antimony	Comp	5.00	ug/l		6		2.88
Dissolved Arsenic	Comp	5.00	ug/l				1.9
Total Arsenic	Comp	5.00	ug/l	32a	50		1.92
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			2.4	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			189.6	1.98
Total Chromium	Comp	5.00	ug/l		50		5.94
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			9.6	18.4
Total Copper	Comp	5.00	ug/l	12a			28.6
Dissolved Iron	Comp	100.00	ug/l				104
Total Iron	Comp	100.00	ug/l				300
Dissolved Lead	Comp	5.00	ug/l			2.8	1.26
Total Lead	Comp	5.00	ug/l	8a			2.07
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			55.5	5.15
Total Nickel	Comp	5.00	ug/l	20a	100		5.97
Dissolved Selenium	Comp	5.00	ug/l				0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			3.9	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			126.1	77
Total Zinc	Comp	50.00	ug/l	80a			84
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				0
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l	0.008k			0
beta-BHC	Comp	0.05	ug/l				0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0.055
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4 Comparisons of 2003-2004 Mass Emissions Results with Standards

MASS EMISSION MONITORING - BALLONA CREEK

Beneficial Uses[j]: REC-1, REC-2, WARM, WILD

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a		0.07	0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		6.61
Dissolved Oxygen	Grab	1.00	mg/L		> 5		9.7
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		170000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		130000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.76
Fecal Streptococcus	Grab	20.00	MPN/100ml				130000
Fecal Enterococcus	Grab		MPN/100ml		104		30000
General							
Chloride	Comp	2.00	mg/L		500		5.33
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0
Nitrate	Comp	0.10	mg/L				7.33
Sulfate	Comp	0.10	mg/L		500		7.85
Alkalinity	Comp	4.00	mg/L				22
Hardness	Comp	2.00	mg/L				32
COD	Comp	10.00	mg/L				16.6
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				101.9
Total Dissolved Solids	Comp	2.00	mg/L		2000		68
Turbidity	Comp	0.10	NTU	225a			19
Total Suspended Solids	Comp	2.00	mg/L				34
Volatile Suspended Solids	Comp	1.00	mg/L				19
MBAS	Comp	0.05	mg/L		0.5		0.083
Total Organic Carbon	Comp	1.00	mg/L				5.68
BOD	Comp	2.00	mg/L				9.42
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.253
Total Phosphorus	Comp	0.05	mg/L				0.285
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.66
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0
Kjeldahl-N	Comp	0.10	mg/L				2
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		224
Dissolved Antimony	Comp	5.00	ug/l				1.35
Total Antimony	Comp	5.00	ug/l		6		1.4
Dissolved Arsenic	Comp	5.00	ug/l				1.2
Total Arsenic	Comp	5.00	ug/l	32a	50		1.28
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			1.0	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			70.0	2.47
Total Chromium	Comp	5.00	ug/l		50		5.64
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			3.4	12.6
Total Copper	Comp	5.00	ug/l	12a			16.2
Dissolved Iron	Comp	100.00	ug/l				126
Total Iron	Comp	100.00	ug/l				285
Dissolved Lead	Comp	5.00	ug/l			0.6	2.23
Total Lead	Comp	5.00	ug/l	8a			2.91
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			19.8	2.86
Total Nickel	Comp	5.00	ug/l	20a	100		3.63
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			0.5	0
Total Silver	Comp	1.00	ug/l	2.8a			0

Table 4-4 Comparisons of 2003-2004 Mass Emissions Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			45.0	88
Total Zinc	Comp	50.00	ug/l	80a			116
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				28.5
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0.3
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0

Table 4-4 Comparisons of 2003-2004 Mass Emissions Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - BALLONA CREEK

Beneficial Uses[j]: REC-1, REC-2, WARM, WILD

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a		0.07	0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		8.65
Dissolved Oxygen	Grab	1.00	mg/L		> 5		9.68
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		50000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		1400
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.028
Fecal Streptococcus	Grab	20.00	MPN/100ml				22000
Fecal Enterococcus	Grab		MPN/100ml		104		11000
General							
Chloride	Comp	2.00	mg/L		500		112
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.5
Nitrate	Comp	0.10	mg/L				6.15
Sulfate	Comp	0.10	mg/L		500		209
Alkalinity	Comp	4.00	mg/L				262
Hardness	Comp	2.00	mg/L				415
COD	Comp	10.00	mg/L				15.1
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1296
Total Dissolved Solids	Comp	2.00	mg/L		2000		768
Turbidity	Comp	0.10	NTU	225a			0.58
Total Suspended Solids	Comp	2.00	mg/L				84
Volatile Suspended Solids	Comp	1.00	mg/L				21
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				4.67
BOD	Comp	2.00	mg/L				7.81
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.151
Total Phosphorus	Comp	0.05	mg/L				0.173
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.389
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.414
Kjeldahl-N	Comp	0.10	mg/L				0.95
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0.96
Total Antimony	Comp	5.00	ug/l		6		0.96
Dissolved Arsenic	Comp	5.00	ug/l				3.2
Total Arsenic	Comp	5.00	ug/l	32a	50		3.2
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			6.4	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			571.0	5.64
Total Chromium	Comp	5.00	ug/l		50		10.7
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			30.2	7.11
Total Copper	Comp	5.00	ug/l	12a			18.3
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				149
Dissolved Lead	Comp	5.00	ug/l			15.4	0
Total Lead	Comp	5.00	ug/l	8a			1.26
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			173.4	4.02
Total Nickel	Comp	5.00	ug/l	20a	100		4.71
Dissolved Selenium	Comp	5.00	ug/l				3.63
Total Selenium	Comp	5.00	ug/l	60a	50		3.63

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Dissolved Silver[f]	Comp	1.00	ug/l			39.9	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			394.5	11.1
Total Zinc	Comp	50.00	ug/l	80a			16.7
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				29.9
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				3.2
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0.078
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

File: wq_dataDRYWEATHER#1_BALLONA

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - BALLONA CREEK

Beneficial Uses[j]: REC-1, REC-2, WARM, WILD

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a		0.07	0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		7.29
Dissolved Oxygen	Grab	1.00	mg/L		> 5		12.15
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		1100
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		200
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.18
Fecal Streptococcus	Grab	20.00	MPN/100ml				80
Fecal Enterococcus	Grab		MPN/100ml		104		80
General							
Chloride	Comp	2.00	mg/L		500		116
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.38
Nitrate	Comp	0.10	mg/L				0
Sulfate	Comp	0.10	mg/L		500		178
Alkalinity	Comp	4.00	mg/L				228
Hardness	Comp	2.00	mg/L				375
COD	Comp	10.00	mg/L				51
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1140
Total Dissolved Solids	Comp	2.00	mg/L		2000		710
Turbidity	Comp	0.10	NTU	225a			0.46
Total Suspended Solids	Comp	2.00	mg/L				8
Volatile Suspended Solids	Comp	1.00	mg/L				8
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				4.33
BOD	Comp	2.00	mg/L				22.9
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0
Total Phosphorus	Comp	0.05	mg/L				0
NH3-N	Comp	0.10	mg/L				0.10132
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.755
Kjeldahl-N	Comp	0.10	mg/L				0.554
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0.57
Total Antimony	Comp	5.00	ug/l		6		0.63
Dissolved Arsenic	Comp	5.00	ug/l				2.19
Total Arsenic	Comp	5.00	ug/l	32a	50		2.95
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			5.9	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			525.5	2.86
Total Chromium	Comp	5.00	ug/l		50		4.26
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			27.7	6.11
Total Copper	Comp	5.00	ug/l	12a			7.6
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				0
Dissolved Lead	Comp	5.00	ug/l			13.5	0
Total Lead	Comp	5.00	ug/l	8a			0.9
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			159.1	5.32
Total Nickel	Comp	5.00	ug/l	20a	100		6.67

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
Dissolved Selenium	Comp	5.00	ug/l				2.47
Total Selenium	Comp	5.00	ug/l	60a	50		3.25
Dissolved Silver[f]	Comp	1.00	ug/l			33.5	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			362.1	18
Total Zinc	Comp	50.00	ug/l	80a			49
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				13.7
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Ballona Creek
delta-BHC	Comp	0.05	ug/l	0.008k			0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - MALIBU CREEK

Beneficial Uses[j]: MUN, REC-1, REC-2, COLD, RARE, MIGR, SPWN, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		8.43
Dissolved Oxygen	Grab	1.00	mg/L		> 7		9.79
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		28000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		500
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.02
Fecal Streptococcus	Grab	20.00	MPN/100ml				1300
Fecal Enterococcus	Grab		MPN/100ml		104		1300
General							
Chloride	Comp	2.00	mg/L		500		164
Fluoride f(temp)[i]	Comp	0.10	mg/L		1.8		0.15
Nitrate	Comp	0.10	mg/L				35.1
Sulfate	Comp	0.10	mg/L		500		399
Alkalinity	Comp	4.00	mg/L				162
Hardness	Comp	2.00	mg/L				505
COD	Comp	10.00	mg/L				120.7
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1680
Total Dissolved Solids	Comp	2.00	mg/L		1500		1082
Turbidity	Comp	0.10	NTU	225a			0.56
Total Suspended Solids	Comp	2.00	mg/L				10
Volatile Suspended Solids	Comp	1.00	mg/L				5
MBAS	Comp	0.05	mg/L		0.5		0.056
Total Organic Carbon	Comp	1.00	mg/L				8.29
BOD	Comp	2.00	mg/L				6.57
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.921
Total Phosphorus	Comp	0.05	mg/L				1.32
NH3-N	Comp	0.10	mg/L				0.116
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		7.93
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0
Kjeldahl-N	Comp	0.10	mg/L				0.724
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		235
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0.5
Dissolved Arsenic	Comp	5.00	ug/l			150	1.4
Total Arsenic	Comp	5.00	ug/l	32a	50		1.4
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			7.4	0.44
Total Cadmium	Comp	1.00	ug/l	4a	5		0.44
Dissolved Chromium	Comp	5.00	ug/l			670.5	0.8
Total Chromium	Comp	5.00	ug/l		50		0.8
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			35.7	5.33
Total Copper	Comp	5.00	ug/l	12a			10.9
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				269
Dissolved Lead	Comp	5.00	ug/l			19.8	0
Total Lead	Comp	5.00	ug/l	8a			2.31
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			204.7	7.27
Total Nickel	Comp	5.00	ug/l	20a	100		8.27

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Dissolved Selenium	Comp	5.00	ug/l				4.75
Total Selenium	Comp	5.00	ug/l	60a	50		4.75
Dissolved Silver[f]	Comp	1.00	ug/l			55.9	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			465.9	28.4
Total Zinc	Comp	50.00	ug/l	80a			47.3
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				13
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

c) 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.

d) 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.

f) This constituent is a function of the parameter(s) in parentheses.

i) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

j) The sum of these constituents must be less than the standard shown.

k) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

l) Storm #1: (10/31/03) Water Quality Data

Table 4-4. Comarisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - MALIBU CREEK

Beneficial Uses[j]: MUN, REC-1, REC-2, COLD, RARE, MIGR, SPWN, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		7.82
Dissolved Oxygen	Grab	1.00	mg/L		> 7		10.76
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		30000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		900
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.03
Fecal Streptococcus	Grab	20.00	MPN/100ml				2400
Fecal Enterococcus	Grab		MPN/100ml		104		2400
General							
Chloride	Comp	2.00	mg/L		500		154
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.19
Nitrate	Comp	0.10	mg/L				6.1
Sulfate	Comp	0.10	mg/L		500		701
Alkalinity	Comp	4.00	mg/L				241
Hardness	Comp	2.00	mg/L				820
COD	Comp	10.00	mg/L				36.7
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				2211
Total Dissolved Solids	Comp	2.00	mg/L		1500		1542
Turbidity	Comp	0.10	NTU	225a			234
Total Suspended Solids	Comp	2.00	mg/L				684
Volatile Suspended Solids	Comp	1.00	mg/L				107
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				7.04
BOD	Comp	2.00	mg/L				7.56
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.462
Total Phosphorus	Comp	0.05	mg/L				0.55
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.86
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.587
Kjeldahl-N	Comp	0.10	mg/L				0.87
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0.52
Total Antimony	Comp	5.00	ug/l		6		0.52
Dissolved Arsenic	Comp	5.00	ug/l			150	1.99
Total Arsenic	Comp	5.00	ug/l	32a	50		2
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			10.5	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0.27
Dissolved Chromium	Comp	5.00	ug/l			997.3	1.5
Total Chromium	Comp	5.00	ug/l		50		4.67
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			54.1	3.76
Total Copper	Comp	5.00	ug/l	12a			12.1
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				273
Dissolved Lead	Comp	5.00	ug/l			36.7	0
Total Lead	Comp	5.00	ug/l	8a			0.75
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			308.4	8.45

Table 4-4. Comarisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Total Nickel	Comp	5.00	ug/l	20a	100		9.85
Dissolved Selenium	Comp	5.00	ug/l				5.38
Total Selenium	Comp	5.00	ug/l	60a	50		5.44
Dissolved Silver[f]	Comp	1.00	ug/l			128.7	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			702.5	21
Total Zinc	Comp	50.00	ug/l	80a			34
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				0
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				1.3
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comarisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l	0.018k			0
beta-Endosulfan	Comp	0.10	ug/l				0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

c) 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.

d) 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.

f) This constituent is a function of the parameter(s) in parentheses.

i) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

j) The sum of these constituents must be less than the standard shown.

k) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

l)

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - MALIBU CREEK

Beneficial Uses[j]: MUN, REC-1, REC-2, COLD, RARE, MIGR, SPWN, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		8.01
Dissolved Oxygen	Grab	1.00	mg/L		> 7		9.14
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		700
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		260
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.371428571
Fecal Streptococcus	Grab	20.00	MPN/100ml				110
Fecal Enterococcus	Grab		MPN/100ml		104		110
General							
Chloride	Comp	2.00	mg/L		500		143
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.0		0.14
Nitrate	Comp	0.10	mg/L				19.8
Sulfate	Comp	0.10	mg/L		500		395
Alkalinity	Comp	4.00	mg/L				182
Hardness	Comp	2.00	mg/L				510
COD	Comp	10.00	mg/L				43.8
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1692
Total Dissolved Solids	Comp	2.00	mg/L		1500		1088
Turbidity	Comp	0.10	NTU	225a			0.86
Total Suspended Solids	Comp	2.00	mg/L				2
Volatile Suspended Solids	Comp	1.00	mg/L				2
MBAS	Comp	0.05	mg/L		0.5		0.051
Total Organic Carbon	Comp	1.00	mg/L				6.99
BOD	Comp	2.00	mg/L				4.29
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				1.07
Total Phosphorus	Comp	0.05	mg/L				1.2
NH3-N	Comp	0.10	mg/L				0.188
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		4.47
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.679
Kjeldahl-N	Comp	0.10	mg/L				0.866
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0
Dissolved Arsenic	Comp	5.00	ug/l			150	1.16
Total Arsenic	Comp	5.00	ug/l	32a	50		1.45
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			7.4	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			676.0	3.74
Total Chromium	Comp	5.00	ug/l		50		4.16
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			36.0	5.98
Total Copper	Comp	5.00	ug/l	12a			7.83
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				156
Dissolved Lead	Comp	5.00	ug/l			20.0	0
Total Lead	Comp	5.00	ug/l	8a			0.78
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			206.4	6.51

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Total Nickel	Comp	5.00	ug/l	20a	100		6.83
Dissolved Selenium	Comp	5.00	ug/l				2.9
Total Selenium	Comp	5.00	ug/l	60a	50		4.05
Dissolved Silver[f]	Comp	1.00	ug/l			56.9	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			469.8	31
Total Zinc	Comp	50.00	ug/l	80a			62
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				21.7
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				2.4
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l	0.018k			0
beta-Endosulfan	Comp	0.10	ug/l				0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

c) 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.

d) 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.

f) This constituent is a function of the parameter(s) in parentheses.

i) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

j) The sum of these constituents must be less than the standard shown.

k) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

l)

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - MALIBU CREEK

Beneficial Uses[j]: MUN, REC-1, REC-2, COLD, RARE, MIGR, SPWN, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		8.46
Dissolved Oxygen	Grab	1.00	mg/L		> 7		8.68
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		3300
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		500
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.15
Fecal Streptococcus	Grab	20.00	MPN/100ml				80
Fecal Enterococcus	Grab		MPN/100ml		104		40
General							
Chloride	Comp	2.00	mg/L		500		171
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.2
Nitrate	Comp	0.10	mg/L				1.32
Sulfate	Comp	0.10	mg/L		500		1090
Alkalinity	Comp	4.00	mg/L				303
Hardness	Comp	2.00	mg/L				1160
COD	Comp	10.00	mg/L				29.4
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				3240
Total Dissolved Solids	Comp	2.00	mg/L		1500		2060
Turbidity	Comp	0.10	NTU	225a			0.37
Total Suspended Solids	Comp	2.00	mg/L				45
Volatile Suspended Solids	Comp	1.00	mg/L				5
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				4.49
BOD	Comp	2.00	mg/L				2.32
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.129
Total Phosphorus	Comp	0.05	mg/L				0.157
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0.298
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.426
Kjeldahl-N	Comp	0.10	mg/L				0.46
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0
Dissolved Arsenic	Comp	5.00	ug/l			150	2.31
Total Arsenic	Comp	5.00	ug/l	32a	50		2.31
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			13.6	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			1325.0	5.79
Total Chromium	Comp	5.00	ug/l		50		10.5
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			72.7	4.19
Total Copper	Comp	5.00	ug/l	12a			13.3
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				130
Dissolved Lead	Comp	5.00	ug/l			57.0	0
Total Lead	Comp	5.00	ug/l	8a			0.67
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			413.6	9.68
Total Nickel	Comp	5.00	ug/l	20a	100		10.9
Dissolved Selenium	Comp	5.00	ug/l				7.68
Total Selenium	Comp	5.00	ug/l	60a	50		7.68

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Dissolved Silver[f]	Comp	1.00	ug/l			233.7	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			942.6	3.83
Total Zinc	Comp	50.00	ug/l	80a			9.8
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				20.5
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				2.5
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				4.8
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

c) 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.

d) 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.

f) This constituent is a function of the parameter(s) in parentheses.

i) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

j) The sum of these constituents must be less than the standard shown.

k) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

l)

File: wq_dataDRYWEATHER#1_MALIBU

Table 4 - 4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - MALIBU CREEK

Beneficial Uses[j]: MUN, REC-1, REC-2, COLD, RARE, MIGR, SPWN, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		7.83
Dissolved Oxygen	Grab	1.00	mg/L		> 7		8.4
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		230
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		20
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.086956522
Fecal Streptococcus	Grab	20.00	MPN/100ml				40
Fecal Enterococcus	Grab		MPN/100ml		104		40
General							
Chloride	Comp	2.00	mg/L		500		164
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.21
Nitrate	Comp	0.10	mg/L				40.9
Sulfate	Comp	0.10	mg/L		500		494
Alkalinity	Comp	4.00	mg/L				193
Hardness	Comp	2.00	mg/L				640
COD	Comp	10.00	mg/L				68.4
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1875
Total Dissolved Solids	Comp	2.00	mg/L		1500		1198
Turbidity	Comp	0.10	NTU	225a			0.38
Total Suspended Solids	Comp	2.00	mg/L				4
Volatile Suspended Solids	Comp	1.00	mg/L				2
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				6.33
BOD	Comp	2.00	mg/L				2.13
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				1.02
Total Phosphorus	Comp	0.05	mg/L				1.17
NH3-N	Comp	0.10	mg/L				0.13758
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		9.2354
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.62086
Kjeldahl-N	Comp	0.10	mg/L				0.3
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0
Dissolved Arsenic	Comp	5.00	ug/l			150	1.17
Total Arsenic	Comp	5.00	ug/l	32a	50		1.7
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			8.8	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			814.1	2.43
Total Chromium	Comp	5.00	ug/l		50		3.89
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			43.8	3.98
Total Copper	Comp	5.00	ug/l	12a			5.67
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				0
Dissolved Lead	Comp	5.00	ug/l			26.7	0
Total Lead	Comp	5.00	ug/l	8a			1.7
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			250.1	6.79
Total Nickel	Comp	5.00	ug/l	20a	100		9.08
Dissolved Selenium	Comp	5.00	ug/l				4
Total Selenium	Comp	5.00	ug/l	60a	50		5.89
Dissolved Silver[f]	Comp	1.00	ug/l			84.0	0

Table 4 - 4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			569.5	20
Total Zinc	Comp	50.00	ug/l	80a			39
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				0
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l	0.008k			0
beta-BHC	Comp	0.05	ug/l				0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0

Table 4 - 4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Malibu Creek
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

c) 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.

d) 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.

f) This constituent is a function of the parameter(s) in parentheses.

i) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

j) The sum of these constituents must be less than the standard shown.

k) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

l)

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING- L.A. RIVER

Beneficial Uses[j]: MUN, AGR, REC-1, REC-2, WARM, WILD, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.062
pH	Comp	0-14			6.5 < pH < 8.5		7.35
Dissolved Oxygen	Grab	1.00	mg/L		> 5		2.5
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		800000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		170000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.21
Fecal Streptococcus	Grab	20.00	MPN/100ml				500000
Fecal Enterococcus	Grab		MPN/100ml		104		170000
General							
Chloride	Comp	2.00	mg/L		150		29
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.39
Nitrate	Comp	0.10	mg/L				0
Sulfate	Comp	0.10	mg/L		350		26.9
Alkalinity	Comp	4.00	mg/L				79.2
Hardness	Comp	2.00	mg/L				105
COD	Comp	10.00	mg/L				121
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				350
Total Dissolved Solids	Comp	2.00	mg/L		1500		216
Turbidity	Comp	0.10	NTU	225a			36.7
Total Suspended Solids	Comp	2.00	mg/L				1339
Volatile Suspended Solids	Comp	1.00	mg/L				265
MBAS	Comp	0.05	mg/L		0.5		0.202
Total Organic Carbon	Comp	1.00	mg/L				45.4
BOD	Comp	2.00	mg/L				94.4
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.895
Total Phosphorus	Comp	0.05	mg/L				1.07
NH3-N	Comp	0.10	mg/L				2.8
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0
Kjeldahl-N	Comp	0.10	mg/L				4.92
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		14600
Dissolved Antimony	Comp	5.00	ug/l				1.63
Total Antimony	Comp	5.00	ug/l		6		7.24
Dissolved Arsenic	Comp	5.00	ug/l			150	2.01
Total Arsenic	Comp	5.00	ug/l	32a	50		6.28
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			2.3	0
Total Cadmium	Comp	1.00	ug/l	4a	5		4.7
Dissolved Chromium	Comp	5.00	ug/l			185.3	2.75
Total Chromium	Comp	5.00	ug/l		50		35.3
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			9.3	4.48
Total Copper	Comp	5.00	ug/l	12a			295
Dissolved Iron	Comp	100.00	ug/l				476
Total Iron	Comp	100.00	ug/l				28600
Dissolved Lead	Comp	5.00	ug/l			2.7	2.34
Total Lead	Comp	5.00	ug/l	8a			1070
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			54.2	9.9
Total Nickel	Comp	5.00	ug/l	20a	100		38.8

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Dissolved Selenium	Comp	5.00	ug/l				1.49
Total Selenium	Comp	5.00	ug/l	60a	50		1.84
Dissolved Silver[f]	Comp	1.00	ug/l			3.8	0
Total Silver	Comp	1.00	ug/l	2.8a			2.91
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			123.1	17.4
Total Zinc	Comp	50.00	ug/l	80a			1030
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				62
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l	0.008k			0
beta-BHC	Comp	0.05	ug/l				0
delta-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown. 0.07

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING- L.A. RIVER

Beneficial Uses[j]: MUN, AGR, REC-1, REC-2, WARM, WILD, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			3.2
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.02
pH	Comp	0-14			6.5 < pH < 8.5		6.55
Dissolved Oxygen	Grab	1.00	mg/L		> 5		6.6
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		240000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		240000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		1
Fecal Streptococcus	Grab	20.00	MPN/100ml				300000
Fecal Enterococcus	Grab		MPN/100ml		104		300000
General							
Chloride	Comp	2.00	mg/L		150		7.58
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.19
Nitrate	Comp	0.10	mg/L				5.1
Sulfate	Comp	0.10	mg/L		350		16
Alkalinity	Comp	4.00	mg/L				43
Hardness	Comp	2.00	mg/L				50
COD	Comp	10.00	mg/L				33.5
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				153.2
Total Dissolved Solids	Comp	2.00	mg/L		1500		124
Turbidity	Comp	0.10	NTU	225a			81
Total Suspended Solids	Comp	2.00	mg/L				355
Volatile Suspended Solids	Comp	1.00	mg/L				89
MBAS	Comp	0.05	mg/L		0.5		0.12
Total Organic Carbon	Comp	1.00	mg/L				10.8
BOD	Comp	2.00	mg/L				25.1
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.325
Total Phosphorus	Comp	0.05	mg/L				0.38
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.15
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.052
Kjeldahl-N	Comp	0.10	mg/L				2.08
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		117
Dissolved Antimony	Comp	5.00	ug/l				1.45
Total Antimony	Comp	5.00	ug/l		6		1.5
Dissolved Arsenic	Comp	5.00	ug/l			150	1.64
Total Arsenic	Comp	5.00	ug/l	32a	50		1.68
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			1.3	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			100.9	1.6
Total Chromium	Comp	5.00	ug/l		50		6.12
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			5.0	7.99
Total Copper	Comp	5.00	ug/l	12a			20.7
Dissolved Iron	Comp	100.00	ug/l				171
Total Iron	Comp	100.00	ug/l				412
Dissolved Lead	Comp	5.00	ug/l			1.0	2.35
Total Lead	Comp	5.00	ug/l	8a			3.24
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			28.9	5.21

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Total Nickel	Comp	5.00	ug/l	20a	100		6.35
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			1.0	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			65.7	59
Total Zinc	Comp	50.00	ug/l	80a			81
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				0
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown. 0.07

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

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Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING- L.A. RIVER

Beneficial Uses[j]: MUN, AGR, REC-1, REC-2, WARM, WILD, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			4.8
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.009
pH	Comp	0-14			6.5 < pH < 8.5		6.3
Dissolved Oxygen	Grab	1.00	mg/L		> 5		9.54
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		1700000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		1300000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.764705882
Fecal Streptococcus	Grab	20.00	MPN/100ml				170000
Fecal Enterococcus	Grab		MPN/100ml		104		36000
General							
Chloride	Comp	2.00	mg/L		150		8.18
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0
Nitrate	Comp	0.10	mg/L				7.58
Sulfate	Comp	0.10	mg/L		350		11.3
Alkalinity	Comp	4.00	mg/L				34
Hardness	Comp	2.00	mg/L				42
COD	Comp	10.00	mg/L				22.7
TPH	Grab	1.00	mg/L				3.8
Specific Conductance	Comp	1.00	umhos/cm				133.8
Total Dissolved Solids	Comp	2.00	mg/L		1500		92
Turbidity	Comp	0.10	NTU	225a			2.43
Total Suspended Solids	Comp	2.00	mg/L				113
Volatile Suspended Solids	Comp	1.00	mg/L				25
MBAS	Comp	0.05	mg/L		0.5		0.123
Total Organic Carbon	Comp	1.00	mg/L				7.06
BOD	Comp	2.00	mg/L				15.5
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.254
Total Phosphorus	Comp	0.05	mg/L				0.296
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.71
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.03
Kjeldahl-N	Comp	0.10	mg/L				0.806
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		144
Dissolved Antimony	Comp	5.00	ug/l				1.39
Total Antimony	Comp	5.00	ug/l		6		1.43
Dissolved Arsenic	Comp	5.00	ug/l			150	1.18
Total Arsenic	Comp	5.00	ug/l	32a	50		1.27
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			1.2	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			87.5	2.65
Total Chromium	Comp	5.00	ug/l		50		6.23
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			4.3	10.6
Total Copper	Comp	5.00	ug/l	12a			16.2
Dissolved Iron	Comp	100.00	ug/l				144
Total Iron	Comp	100.00	ug/l				351
Dissolved Lead	Comp	5.00	ug/l			0.8	3.22
Total Lead	Comp	5.00	ug/l	8a			3.8
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			25.0	4.11

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Total Nickel	Comp	5.00	ug/l	20a	100		7.3
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			0.8	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			56.6	79
Total Zinc	Comp	50.00	ug/l	80a			104
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				24.6
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0.9
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				5.2
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown. 0.07

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING- L.A. RIVER

Beneficial Uses[j]: MUN, AGR, REC-1, REC-2, WARM, WILD, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.057
pH	Comp	0-14			6.5 < pH < 8.5		7.47
Dissolved Oxygen	Grab	1.00	mg/L		> 5		9.64
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		220000
Fecal Coliform	Grab	20	MPN/100ml	400l	400 (Instantaneous)		28000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.13
Fecal Streptococcus	Grab	20.00	MPN/100ml				8000
Fecal Enterococcus	Grab		MPN/100ml		104		5000
General							
Chloride	Comp	2.00	mg/L		150		131
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.51
Nitrate	Comp	0.10	mg/L				12.6
Sulfate	Comp	0.10	mg/L		350		154
Alkalinity	Comp	4.00	mg/L				141
Hardness	Comp	2.00	mg/L				215
COD	Comp	10.00	mg/L				80.6
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1095
Total Dissolved Solids	Comp	2.00	mg/L		1500		620
Turbidity	Comp	0.10	NTU	225a			1.03
Total Suspended Solids	Comp	2.00	mg/L				11
Volatile Suspended Solids	Comp	1.00	mg/L				4
MBAS	Comp	0.05	mg/L		0.5		0.07
Total Organic Carbon	Comp	1.00	mg/L				13.2
BOD	Comp	2.00	mg/L				8.13
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.615
Total Phosphorus	Comp	0.05	mg/L				8.24
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		2.845
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		1.6
Kjeldahl-N	Comp	0.10	mg/L				3.3
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0.93
Total Antimony	Comp	5.00	ug/l		6		0.97
Dissolved Arsenic	Comp	5.00	ug/l			150	2.81
Total Arsenic	Comp	5.00	ug/l	32a	50		2.81
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			3.9	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			333.2	13.1
Total Chromium	Comp	5.00	ug/l		50		26.1
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			17.2	10
Total Copper	Comp	5.00	ug/l	12a			19.9
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				154
Dissolved Lead	Comp	5.00	ug/l			6.7	0.92
Total Lead	Comp	5.00	ug/l	8a			1.61
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			99.4	7.23
Total Nickel	Comp	5.00	ug/l	20a	100		7.39
Dissolved Selenium	Comp	5.00	ug/l				2.48
Total Selenium	Comp	5.00	ug/l	60a	50		2.9

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Dissolved Silver[f]	Comp	1.00	ug/l			12.9	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			226.0	22.3
Total Zinc	Comp	50.00	ug/l	80a			22.3
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				22.1
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				1.6
di-n-Butyl phthalate	Comp	1.00	ug/l				4.7
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown. 0.07

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

File: wq_dataDRYWEATHER#1_LARIVER

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING- L.A. RIVER

Beneficial Uses[j]: MUN, AGR, REC-1, REC-2, WARM, WILD, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.036
pH	Comp	0-14			6.5 < pH < 8.5		7.05
Dissolved Oxygen	Grab	1.00	mg/L		> 5		13.48
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		230
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		230
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		1
Fecal Streptococcus	Grab	20.00	MPN/100ml				700
Fecal Enterococcus	Grab		MPN/100ml		104		700
General							
Chloride	Comp	2.00	mg/L		150		101
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.23
Nitrate	Comp	0.10	mg/L				27.5
Sulfate	Comp	0.10	mg/L		350		97.4
Alkalinity	Comp	4.00	mg/L				141
Hardness	Comp	2.00	mg/L				230
COD	Comp	10.00	mg/L				197
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				774
Total Dissolved Solids	Comp	2.00	mg/L		1500		524
Turbidity	Comp	0.10	NTU	225a			1.96
Total Suspended Solids	Comp	2.00	mg/L				6
Volatile Suspended Solids	Comp	1.00	mg/L				3
MBAS	Comp	0.05	mg/L		0.5		0.07
Total Organic Carbon	Comp	1.00	mg/L				7.05
BOD	Comp	2.00	mg/L				80.4
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.544
Total Phosphorus	Comp	0.05	mg/L				0.64
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		6.21
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.49
Kjeldahl-N	Comp	0.10	mg/L				0.978
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0.85
Total Antimony	Comp	5.00	ug/l		6		0.88
Dissolved Arsenic	Comp	5.00	ug/l			150	1.32
Total Arsenic	Comp	5.00	ug/l	32a	50		1.86
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			4.1	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			352.1	2.83
Total Chromium	Comp	5.00	ug/l		50		4.78
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			18.2	6.73
Total Copper	Comp	5.00	ug/l	12a			8.65
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				106
Dissolved Lead	Comp	5.00	ug/l			7.3	0
Total Lead	Comp	5.00	ug/l	8a			0.81
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			105.2	5.23

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
Total Nickel	Comp	5.00	ug/l	20a	100		7.47
Dissolved Selenium	Comp	5.00	ug/l				1.41
Total Selenium	Comp	5.00	ug/l	60a	50		1.87
Dissolved Silver[f]	Comp	1.00	ug/l			14.5	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			239.3	97
Total Zinc	Comp	50.00	ug/l	80a			133
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				50.9
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	L.A. River
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown. 0.07

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - COYOTE CREEK

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.02
pH	Comp	0-14			6.5 < pH < 8.5		7.5
Dissolved Oxygen	Grab	1.00	mg/L		> 5		3.02
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		50000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		3000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.06
Fecal Streptococcus	Grab	20.00	MPN/100ml				24000
Fecal Enterococcus	Grab		MPN/100ml		104		24000
General							
Chloride	Comp	2.00	mg/L		150		64.3
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.29
Nitrate	Comp	0.10	mg/L				0
Sulfate	Comp	0.10	mg/L		350		78.8
Alkalinity	Comp	4.00	mg/L				157.3
Hardness	Comp	2.00	mg/L				225
COD	Comp	10.00	mg/L				279.1
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				649
Total Dissolved Solids	Comp	2.00	mg/L		1500		408
Turbidity	Comp	0.10	NTU	225a			16.3
Total Suspended Solids	Comp	2.00	mg/L				2061
Volatile Suspended Solids	Comp	1.00	mg/L				394
MBAS	Comp	0.05	mg/L		0.5		0.466
Total Organic Carbon	Comp	1.00	mg/L				69.5
BOD	Comp	2.00	mg/L				119
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.763
Total Phosphorus	Comp	0.05	mg/L				0.844
NH3-N	Comp	0.10	mg/L				4.64
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.18
Kjeldahl-N	Comp	0.10	mg/L				7
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		5856
Dissolved Antimony	Comp	5.00	ug/l				2.63
Total Antimony	Comp	5.00	ug/l		6		4.75
Dissolved Arsenic	Comp	5.00	ug/l			150	3.44
Total Arsenic	Comp	5.00	ug/l	32a	50		7.17
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			4.1	0
Total Cadmium	Comp	1.00	ug/l	4a	5		2.46
Dissolved Chromium	Comp	5.00	ug/l			345.8	5.96
Total Chromium	Comp	5.00	ug/l		50		19
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			17.9	5.56
Total Copper	Comp	5.00	ug/l	12a			97.5
Dissolved Iron	Comp	100.00	ug/l				316
Total Iron	Comp	100.00	ug/l				20100
Dissolved Lead	Comp	5.00	ug/l			7.1	0
Total Lead	Comp	5.00	ug/l	8a			73.1
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0.236
Dissolved Nickel	Comp	5.00	ug/l			103.3	15.1
Total Nickel	Comp	5.00	ug/l	20a	100		38

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
Dissolved Selenium	Comp	5.00	ug/l				2.36
Total Selenium	Comp	5.00	ug/l	60a	50		2.85
Dissolved Silver[f]	Comp	1.00	ug/l			13.9	0
Total Silver	Comp	1.00	ug/l	2.8a			1.2
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			234.9	6.9
Total Zinc	Comp	50.00	ug/l	80a			530
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				48.4
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l	0.008k			0
beta-BHC	Comp	0.05	ug/l				0
delta-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - COYOTE CREEK

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		6.89
Dissolved Oxygen	Grab	1.00	mg/L		> 5		8.12
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		170000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		110000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.65
Fecal Streptococcus	Grab	20.00	MPN/100ml				110000
Fecal Enterococcus	Grab		MPN/100ml		104		80000
General							
Chloride	Comp	2.00	mg/L		150		15.1
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.16
Nitrate	Comp	0.10	mg/L				6.63
Sulfate	Comp	0.10	mg/L		350		24
Alkalinity	Comp	4.00	mg/L				77
Hardness	Comp	2.00	mg/L				92.8
COD	Comp	10.00	mg/L				30
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				277
Total Dissolved Solids	Comp	2.00	mg/L		1500		192
Turbidity	Comp	0.10	NTU	225a			60
Total Suspended Solids	Comp	2.00	mg/L				336
Volatile Suspended Solids	Comp	1.00	mg/L				88
MBAS	Comp	0.05	mg/L		0.5		0.113
Total Organic Carbon	Comp	1.00	mg/L				10
BOD	Comp	2.00	mg/L				20.3
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.32
Total Phosphorus	Comp	0.05	mg/L				0.36
NH3-N	Comp	0.10	mg/L				0.00
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.50
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.07
Kjeldahl-N	Comp	0.10	mg/L				1.73
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		112
Dissolved Antimony	Comp	5.00	ug/l				1.58
Total Antimony	Comp	5.00	ug/l		6		1.63
Dissolved Arsenic	Comp	5.00	ug/l			150	1.91
Total Arsenic	Comp	5.00	ug/l	32a	50		1.96
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			2.1	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			167.4	1.52
Total Chromium	Comp	5.00	ug/l		50		5.78
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			8.4	7.4
Total Copper	Comp	5.00	ug/l	12a			21.6
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				294
Dissolved Lead	Comp	5.00	ug/l			2.3	0.96
Total Lead	Comp	5.00	ug/l	8a			1.85
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			48.8	3.94

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
Total Nickel	Comp	5.00	ug/l	20a	100		6.12
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			3.0	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			110.9	40
Total Zinc	Comp	50.00	ug/l	80a			52
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				0
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l	0.018k			0
beta-Endosulfan	Comp	0.10	ug/l				0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - COYOTE CREEK

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.017
pH	Comp	0-14			6.5 < pH < 8.5		6.89
Dissolved Oxygen	Grab	1.00	mg/L		> 5		11.28
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		24000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		3000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.13
Fecal Streptococcus	Grab	20.00	MPN/100ml				17000
Fecal Enterococcus	Grab		MPN/100ml		104		13000
General							
Chloride	Comp	2.00	mg/L		150		32.4
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.15
Nitrate	Comp	0.10	mg/L				12.3
Sulfate	Comp	0.10	mg/L		350		53
Alkalinity	Comp	4.00	mg/L				78
Hardness	Comp	2.00	mg/L				112
COD	Comp	10.00	mg/L				38.6
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				374
Total Dissolved Solids	Comp	2.00	mg/L		1500		250
Turbidity	Comp	0.10	NTU	225a			1.02
Total Suspended Solids	Comp	2.00	mg/L				102
Volatile Suspended Solids	Comp	1.00	mg/L				25
MBAS	Comp	0.05	mg/L		0.5		0.181
Total Organic Carbon	Comp	1.00	mg/L				10.1
BOD	Comp	2.00	mg/L				17.3
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.26
Total Phosphorus	Comp	0.05	mg/L				0.30
NH3-N	Comp	0.10	mg/L				0.00
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		2.78
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.13
Kjeldahl-N	Comp	0.10	mg/L				2.28
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		130
Dissolved Antimony	Comp	5.00	ug/l				1.88
Total Antimony	Comp	5.00	ug/l		6		2.02
Dissolved Arsenic	Comp	5.00	ug/l			150	1.78
Total Arsenic	Comp	5.00	ug/l	32a	50		1.78
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			2.4	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			195.3	3.1
Total Chromium	Comp	5.00	ug/l		50		6.26
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			9.9	11
Total Copper	Comp	5.00	ug/l	12a			17.6
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				318
Dissolved Lead	Comp	5.00	ug/l			2.9	1.5
Total Lead	Comp	5.00	ug/l	8a			2.25
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			57.2	4.53

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
Total Nickel	Comp	5.00	ug/l	20a	100		6.47
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			4.2	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			130.0	65
Total Zinc	Comp	50.00	ug/l	80a			90
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				40.7
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0.7
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				6.6
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0.104
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emisssion Results with Standards

MASS EMISSION MONITORING - DOMINGUEZ CHANNEL

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		8.22
Dissolved Oxygen	Grab	1.00	mg/L		> 5		10.23
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		7000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)	0.07	3000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.43
Fecal Streptococcus	Grab	20.00	MPN/100ml				1100
Fecal Enterococcus	Grab		MPN/100ml		104		1100
General							
Chloride	Comp	2.00	mg/L		150		82.9
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.2		0.6
Nitrate	Comp	0.10	mg/L				2.86
Sulfate	Comp	0.10	mg/L		350		72.2
Alkalinity	Comp	4.00	mg/L				118
Hardness	Comp	2.00	mg/L				180
COD	Comp	10.00	mg/L				32.7
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				612
Total Dissolved Solids	Comp	2.00	mg/L		1500		378
Turbidity	Comp	0.10	NTU	225a			0.61
Total Suspended Solids	Comp	2.00	mg/L				5
Volatile Suspended Solids	Comp	1.00	mg/L				2
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				5.28
BOD	Comp	2.00	mg/L				4.08
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.13
Total Phosphorus	Comp	0.05	mg/L				0.148
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0.646
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.21
Kjeldahl-N	Comp	0.10	mg/L				1.03
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		100
Dissolved Antimony	Comp	5.00	ug/l				1.23
Total Antimony	Comp	5.00	ug/l		6		1.23
Dissolved Arsenic	Comp	5.00	ug/l			150	3.55
Total Arsenic	Comp	5.00	ug/l	32a	50		3.55
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			3.5	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			288.1	5.37
Total Chromium	Comp	5.00	ug/l		50		11.9
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			14.8	8.02
Total Copper	Comp	5.00	ug/l	12a			18.9
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				133
Dissolved Lead	Comp	5.00	ug/l			5.3	0
Total Lead	Comp	5.00	ug/l	8a			0.82
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			85.5	2.22
Total Nickel	Comp	5.00	ug/l	20a	100		2.7
Dissolved Selenium	Comp	5.00	ug/l				1.4
Total Selenium	Comp	5.00	ug/l	60a	50		1.4

Table 4-4. Comparisons of 2003-2004 Mass Emisssion Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Dissolved Silver[f]	Comp	1.00	ug/l			9.5	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			194.4	4.58
Total Zinc	Comp	50.00	ug/l	80a			9.15
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				146
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				4.3
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l	0.008k			0
beta-BHC	Comp	0.05	ug/l				0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emisssion Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

File: wq_dataDRYWEATHER#1_DOMINGUEZ

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - COYOTE CREEK

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.01
pH	Comp	0-14			6.5 < pH < 8.5		8.16
Dissolved Oxygen	Grab	1.00	mg/L		> 5		17.1
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		2400
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		2400
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		1.00
Fecal Streptococcus	Grab	20.00	MPN/100ml				900
Fecal Enterococcus	Grab		MPN/100ml		104		260
General							
Chloride	Comp	2.00	mg/L		150		103
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.54
Nitrate	Comp	0.10	mg/L				17.5
Sulfate	Comp	0.10	mg/L		350		158
Alkalinity	Comp	4.00	mg/L				237
Hardness	Comp	2.00	mg/L				395
COD	Comp	10.00	mg/L				125
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1767
Total Dissolved Solids	Comp	2.00	mg/L		1500		1100
Turbidity	Comp	0.10	NTU	225a			0.7
Total Suspended Solids	Comp	2.00	mg/L				9
Volatile Suspended Solids	Comp	1.00	mg/L				7
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				6.63
BOD	Comp	2.00	mg/L				14.4
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.00
Total Phosphorus	Comp	0.05	mg/L				0.00
NH3-N	Comp	0.10	mg/L				0.19
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		3.95
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		1.11
Kjeldahl-N	Comp	0.10	mg/L				1.16
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0.65
Total Antimony	Comp	5.00	ug/l		6		0.65
Dissolved Arsenic	Comp	5.00	ug/l			150	2.85
Total Arsenic	Comp	5.00	ug/l	32a	50		3.71
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			6.2	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			548.3	4.78
Total Chromium	Comp	5.00	ug/l		50		6.66
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			29.0	6.35
Total Copper	Comp	5.00	ug/l	12a			8.58
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				0
Dissolved Lead	Comp	5.00	ug/l			14.5	0
Total Lead	Comp	5.00	ug/l	8a			0.82
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			166.3	5.3

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
Total Nickel	Comp	5.00	ug/l	20a	100		7.26
Dissolved Selenium	Comp	5.00	ug/l				4.55
Total Selenium	Comp	5.00	ug/l	60a	50		5.64
Dissolved Silver[f]	Comp	1.00	ug/l			36.6	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			378.3	13
Total Zinc	Comp	50.00	ug/l	80a			50
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				5.2
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Coyote Creek
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l	0.018k			0
beta-Endosulfan	Comp	0.10	ug/l				0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - SAN GABRIEL RIVER

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.012
pH	Comp	0-14			6.5 < pH < 8.5		8.17
Dissolved Oxygen	Grab	1.00	mg/L		> 5		9.56
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		30000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		500
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.02
Fecal Streptococcus	Grab	20.00	MPN/100ml				1300
Fecal Enterococcus	Grab		MPN/100ml		104		1300
General							
Chloride	Comp	2.00	mg/L		150		153
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.32
Nitrate	Comp	0.10	mg/L				24.6
Sulfate	Comp	0.10	mg/L		350		191
Alkalinity	Comp	4.00	mg/L				140.8
Hardness	Comp	2.00	mg/L				260
COD	Comp	10.00	mg/L				103.5
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1116
Total Dissolved Solids	Comp	2.00	mg/L		1500		706
Turbidity	Comp	0.10	NTU	225a			0.55
Total Suspended Solids	Comp	2.00	mg/L				10
Volatile Suspended Solids	Comp	1.00	mg/L				4
MBAS	Comp	0.05	mg/L		0.5		0.061
Total Organic Carbon	Comp	1.00	mg/L				8.69
BOD	Comp	2.00	mg/L				16.7
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.09
Total Phosphorus	Comp	0.05	mg/L				0.11
NH3-N	Comp	0.10	mg/L				0.00
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		5.55
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N	0.07	0.76
Kjeldahl-N	Comp	0.10	mg/L				0.95
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		198
Dissolved Antimony	Comp	5.00	ug/l				0.529
Total Antimony	Comp	5.00	ug/l		6		0.529
Dissolved Arsenic	Comp	5.00	ug/l			150	0
Total Arsenic	Comp	5.00	ug/l	32a	50		1.05
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			4.5	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			389.3	0.807
Total Chromium	Comp	5.00	ug/l		50		0.807
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			20.3	2.21
Total Copper	Comp	5.00	ug/l	12a			12.5
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				160
Dissolved Lead	Comp	5.00	ug/l			8.5	0
Total Lead	Comp	5.00	ug/l	8a			3.34
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			116.7	3.7
Total Nickel	Comp	5.00	ug/l	20a	100		7.52

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Dissolved Selenium	Comp	5.00	ug/l				2.52
Total Selenium	Comp	5.00	ug/l	60a	50		2.69
Dissolved Silver[f]	Comp	1.00	ug/l			17.8	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			265.5	26.9
Total Zinc	Comp	50.00	ug/l	80a			64.5
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				42.4
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				9.5
Dimethyl phthalate	Comp	0.50	ug/l				1
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - SAN GABRIEL RIVER

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.022
pH	Comp	0-14			6.5 < pH < 8.5		7.68
Dissolved Oxygen	Grab	1.00	mg/L		> 5		9.02
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		170000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		130000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.76
Fecal Streptococcus	Grab	20.00	MPN/100ml				22000
Fecal Enterococcus	Grab		MPN/100ml		104		17000
General							
Chloride	Comp	2.00	mg/L		150		123
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.2		0.17
Nitrate	Comp	0.10	mg/L				32.4
Sulfate	Comp	0.10	mg/L		350		186
Alkalinity	Comp	4.00	mg/L				169
Hardness	Comp	2.00	mg/L				320
COD	Comp	10.00	mg/L				45.3
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1167
Total Dissolved Solids	Comp	2.00	mg/L		1500		716
Turbidity	Comp	0.10	NTU	225a			30
Total Suspended Solids	Comp	2.00	mg/L				29
Volatile Suspended Solids	Comp	1.00	mg/L				10
MBAS	Comp	0.05	mg/L		0.5		0.052
Total Organic Carbon	Comp	1.00	mg/L				5.49
BOD	Comp	2.00	mg/L				5.87
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.54
Total Phosphorus	Comp	0.05	mg/L				0.65
NH3-N	Comp	0.10	mg/L				0.00
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		7.32
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N	0.07	0.48
Kjeldahl-N	Comp	0.10	mg/L				1.71
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		258
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0
Dissolved Arsenic	Comp	5.00	ug/l			150	1.52
Total Arsenic	Comp	5.00	ug/l	32a	50		1.58
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			5.3	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			461.5	1.19
Total Chromium	Comp	5.00	ug/l		50		4.76
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			24.2	4.3
Total Copper	Comp	5.00	ug/l	12a			16
Dissolved Iron	Comp	100.00	ug/l				115
Total Iron	Comp	100.00	ug/l				423
Dissolved Lead	Comp	5.00	ug/l			11.1	0.92
Total Lead	Comp	5.00	ug/l	8a			1.72
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			139.1	4.97

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Total Nickel	Comp	5.00	ug/l	20a	100		6.36
Dissolved Selenium	Comp	5.00	ug/l				2.3
Total Selenium	Comp	5.00	ug/l	60a	50		2.39
Dissolved Silver[f]	Comp	1.00	ug/l			25.5	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			316.5	46
Total Zinc	Comp	50.00	ug/l	80a			61
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				2.9
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				43.4
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				1.7
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l	0.018k			0
beta-Endosulfan	Comp	0.10	ug/l				0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - SAN GABRIEL RIVER

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.015
pH	Comp	0-14			6.5 < pH < 8.5		7.64
Dissolved Oxygen	Grab	1.00	mg/L		> 5		10.68
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		3000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		270
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.09
Fecal Streptococcus	Grab	20.00	MPN/100ml				1300
Fecal Enterococcus	Grab		MPN/100ml		104		800
General							
Chloride	Comp	2.00	mg/L		150		132
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.17
Nitrate	Comp	0.10	mg/L				36.3
Sulfate	Comp	0.10	mg/L		350		174
Alkalinity	Comp	4.00	mg/L				152
Hardness	Comp	2.00	mg/L				305
COD	Comp	10.00	mg/L				44.5
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1107
Total Dissolved Solids	Comp	2.00	mg/L		1500		682
Turbidity	Comp	0.10	NTU	225a			1.16
Total Suspended Solids	Comp	2.00	mg/L				80
Volatile Suspended Solids	Comp	1.00	mg/L				14
MBAS	Comp	0.05	mg/L		0.5		0.07
Total Organic Carbon	Comp	1.00	mg/L				5.81
BOD	Comp	2.00	mg/L				14.8
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.35
Total Phosphorus	Comp	0.05	mg/L				0.38
NH3-N	Comp	0.10	mg/L				0.00
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		8.20
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N	0.07	0.44
Kjeldahl-N	Comp	0.10	mg/L				0.77
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		178
Dissolved Antimony	Comp	5.00	ug/l				0.6
Total Antimony	Comp	5.00	ug/l		6		0.74
Dissolved Arsenic	Comp	5.00	ug/l			150	1.44
Total Arsenic	Comp	5.00	ug/l	32a	50		1.55
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			5.1	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			443.7	3.81
Total Chromium	Comp	5.00	ug/l		50		4.74
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			23.2	5.95
Total Copper	Comp	5.00	ug/l	12a			10.5
Dissolved Iron	Comp	100.00	ug/l				102
Total Iron	Comp	100.00	ug/l				320
Dissolved Lead	Comp	5.00	ug/l			10.4	1.46
Total Lead	Comp	5.00	ug/l	8a			2.14
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0.234
Dissolved Nickel	Comp	5.00	ug/l			133.6	5.62

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Total Nickel	Comp	5.00	ug/l	20a	100		6.66
Dissolved Selenium	Comp	5.00	ug/l				2.18
Total Selenium	Comp	5.00	ug/l	60a	50		2.58
Dissolved Silver[f]	Comp	1.00	ug/l			23.5	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			303.9	42
Total Zinc	Comp	50.00	ug/l	80a			67
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				2.1
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				19.8
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				1.9
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l	0.018k			0
beta-Endosulfan	Comp	0.10	ug/l				0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - SAN GABRIEL RIVER

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.023
pH	Comp	0-14			6.5 < pH < 8.5		7.49
Dissolved Oxygen	Grab	1.00	mg/L		> 5		8.52
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		30000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		110
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.00
Fecal Streptococcus	Grab	20.00	MPN/100ml				700
Fecal Enterococcus	Grab		MPN/100ml		104		700
General							
Chloride	Comp	2.00	mg/L		150		147
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.2		0.23
Nitrate	Comp	0.10	mg/L				31.5
Sulfate	Comp	0.10	mg/L		350		132
Alkalinity	Comp	4.00	mg/L				112
Hardness	Comp	2.00	mg/L				210
COD	Comp	10.00	mg/L				40.7
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1008
Total Dissolved Solids	Comp	2.00	mg/L		1500		594
Turbidity	Comp	0.10	NTU	225a			0.5
Total Suspended Solids	Comp	2.00	mg/L				6
Volatile Suspended Solids	Comp	1.00	mg/L				2
MBAS	Comp	0.05	mg/L		0.5		0.054
Total Organic Carbon	Comp	1.00	mg/L				6.75
BOD	Comp	2.00	mg/L				3.4
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.13
Total Phosphorus	Comp	0.05	mg/L				0.14
NH3-N	Comp	0.10	mg/L				0.00
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		7.11
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N	0.07	1.93
Kjeldahl-N	Comp	0.10	mg/L				0.64
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0
Dissolved Arsenic	Comp	5.00	ug/l			150	1.01
Total Arsenic	Comp	5.00	ug/l	32a	50		1.01
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			3.9	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			326.8	5.93
Total Chromium	Comp	5.00	ug/l		50		14.6
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			16.9	4.96
Total Copper	Comp	5.00	ug/l	12a			13.9
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				150
Dissolved Lead	Comp	5.00	ug/l			6.5	0
Total Lead	Comp	5.00	ug/l	8a			1.04
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			97.4	4.61
Total Nickel	Comp	5.00	ug/l	20a	100		5.37
Dissolved Selenium	Comp	5.00	ug/l				1.55
Total Selenium	Comp	5.00	ug/l	60a	50		1.55

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Dissolved Silver[f]	Comp	1.00	ug/l			12.4	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			221.5	36.8
Total Zinc	Comp	50.00	ug/l	80a			36.8
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				18.7
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				3.1
di-n-Butyl phthalate	Comp	1.00	ug/l				7.2
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l	0.008k			0
beta-BHC	Comp	0.05	ug/l				0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

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Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - SAN GABRIEL RIVER

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			3.3
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		7.92
Dissolved Oxygen	Grab	1.00	mg/L		> 5		10.38
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		13000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		500
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.04
Fecal Streptococcus	Grab	20.00	MPN/100ml				300
Fecal Enterococcus	Grab		MPN/100ml		104		170
General							
Chloride	Comp	2.00	mg/L		150		111
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.11
Nitrate	Comp	0.10	mg/L				10.3
Sulfate	Comp	0.10	mg/L		350		121
Alkalinity	Comp	4.00	mg/L				107
Hardness	Comp	2.00	mg/L				195
COD	Comp	10.00	mg/L				31.7
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				733
Total Dissolved Solids	Comp	2.00	mg/L		1500		450
Turbidity	Comp	0.10	NTU	225a			0.2
Total Suspended Solids	Comp	2.00	mg/L				23
Volatile Suspended Solids	Comp	1.00	mg/L				11
MBAS	Comp	0.05	mg/L		0.5		0.05
Total Organic Carbon	Comp	1.00	mg/L				5.42
BOD	Comp	2.00	mg/L				3.93
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.09
Total Phosphorus	Comp	0.05	mg/L				0.11
NH3-N	Comp	0.10	mg/L				0.00
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		2.33
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N	0.07	0.37
Kjeldahl-N	Comp	0.10	mg/L				0.17
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0.88
Dissolved Arsenic	Comp	5.00	ug/l			150	1.67
Total Arsenic	Comp	5.00	ug/l	32a	50		1.88
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			3.7	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			307.6	0
Total Chromium	Comp	5.00	ug/l		50		0.86
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			15.8	4.86
Total Copper	Comp	5.00	ug/l	12a			10.7
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				0
Dissolved Lead	Comp	5.00	ug/l			5.9	0
Total Lead	Comp	5.00	ug/l	8a			0.72
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			91.5	3.47

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
Total Nickel	Comp	5.00	ug/l	20a	100		3.62
Dissolved Selenium	Comp	5.00	ug/l				1.54
Total Selenium	Comp	5.00	ug/l	60a	50		1.65
Dissolved Silver[f]	Comp	1.00	ug/l			10.9	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			208.0	13
Total Zinc	Comp	50.00	ug/l	80a			33
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				0
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	San Gabriel River
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - DOMINGUEZ CHANNEL

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		7.92
Dissolved Oxygen	Grab	1.00	mg/L		> 5		9.57
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		50000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)	0.07	17000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.34
Fecal Streptococcus	Grab	20.00	MPN/100ml				900000
Fecal Enterococcus	Grab		MPN/100ml		104		900000
General							
Chloride	Comp	2.00	mg/L		150		57.1
Fluoride f(temp)[i]	Comp	0.10	mg/L		1.8		0.31
Nitrate	Comp	0.10	mg/L				4.9
Sulfate	Comp	0.10	mg/L		350		46.9
Alkalinity	Comp	4.00	mg/L				82.5
Hardness	Comp	2.00	mg/L				130
COD	Comp	10.00	mg/L				45.4
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				439
Total Dissolved Solids	Comp	2.00	mg/L		1500		270
Turbidity	Comp	0.10	NTU	225a			4.07
Total Suspended Solids	Comp	2.00	mg/L				94
Volatile Suspended Solids	Comp	1.00	mg/L				23
MBAS	Comp	0.05	mg/L		0.5		0.071
Total Organic Carbon	Comp	1.00	mg/L				9.77
BOD	Comp	2.00	mg/L				15.9
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.16
Total Phosphorus	Comp	0.05	mg/L				0.189
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.11
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.192
Kjeldahl-N	Comp	0.10	mg/L				1.382
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		1140
Dissolved Antimony	Comp	5.00	ug/l				1.62
Total Antimony	Comp	5.00	ug/l		6		2.44
Dissolved Arsenic	Comp	5.00	ug/l			150	2.8
Total Arsenic	Comp	5.00	ug/l	32a	50		2.8
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			2.7	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0.37
Dissolved Chromium	Comp	5.00	ug/l			220.7	2.51
Total Chromium	Comp	5.00	ug/l		50		3.95
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			11.2	10.4
Total Copper	Comp	5.00	ug/l	12a			29.9
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				1720
Dissolved Lead	Comp	5.00	ug/l			3.5	0
Total Lead	Comp	5.00	ug/l	8a			16
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			64.9	3.79
Total Nickel	Comp	5.00	ug/l	20a	100		8.04

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Dissolved Selenium	Comp	5.00	ug/l				1.41
Total Selenium	Comp	5.00	ug/l	60a	50		1.41
Dissolved Silver[f]	Comp	1.00	ug/l			5.4	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			147.5	54.3
Total Zinc	Comp	50.00	ug/l	80a			146
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				19.7
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons 0f 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - DOMINGUEZ CHANNEL

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.008
pH	Comp	0-14			6.5 < pH < 8.5		5.99
Dissolved Oxygen	Grab	1.00	mg/L		> 5		8.6
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		70000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		30000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.43
Fecal Streptococcus	Grab	20.00	MPN/100ml				50000
Fecal Enterococcus	Grab		MPN/100ml		104		5000
General							
Chloride	Comp	2.00	mg/L		150		5.28
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.15
Nitrate	Comp	0.10	mg/L				4.73
Sulfate	Comp	0.10	mg/L		350		5.63
Alkalinity	Comp	4.00	mg/L				20
Hardness	Comp	2.00	mg/L				28
COD	Comp	10.00	mg/L				16.9
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				93.9
Total Dissolved Solids	Comp	2.00	mg/L		1500		78
Turbidity	Comp	0.10	NTU	225a			34
Total Suspended Solids	Comp	2.00	mg/L				142
Volatile Suspended Solids	Comp	1.00	mg/L				55
MBAS	Comp	0.05	mg/L		0.5		0.097
Total Organic Carbon	Comp	1.00	mg/L				5.997
BOD	Comp	2.00	mg/L				9.09
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.208
Total Phosphorus	Comp	0.05	mg/L				0.257
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.07
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0
Kjeldahl-N	Comp	0.10	mg/L				1.298
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				1.52
Total Antimony	Comp	5.00	ug/l		6		1.53
Dissolved Arsenic	Comp	5.00	ug/l			150	1.78
Total Arsenic	Comp	5.00	ug/l	32a	50		1.8
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			0.0	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			0.0	1.61
Total Chromium	Comp	5.00	ug/l		50		6.13
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			3.4	11
Total Copper	Comp	5.00	ug/l	12a			25.5
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				328
Dissolved Lead	Comp	5.00	ug/l			0.0	1.21
Total Lead	Comp	5.00	ug/l	8a			1.97
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			0.0	2.64

Table 4-4. Comparisons 0f 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Total Nickel	Comp	5.00	ug/l	20a	100		3.92
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			0.4	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			4.4	114
Total Zinc	Comp	50.00	ug/l	80a			118
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				0
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons 0f 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table-4-4 Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - DOMINGUEZ CHANNEL

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			2.2
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.009
pH	Comp	0-14			6.5 < pH < 8.5		6.14
Dissolved Oxygen	Grab	1.00	mg/L		> 5		10.5
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		50000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)	0.07	50000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		1.00
Fecal Streptococcus	Grab	20.00	MPN/100ml				240000
Fecal Enterococcus	Grab		MPN/100ml		104		6000
General							
Chloride	Comp	2.00	mg/L		150		7.51
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0
Nitrate	Comp	0.10	mg/L				3.69
Sulfate	Comp	0.10	mg/L		350		5.89
Alkalinity	Comp	4.00	mg/L				22
Hardness	Comp	2.00	mg/L				28
COD	Comp	10.00	mg/L				19.4
TPH	Grab	1.00	mg/L				1.5
Specific Conductance	Comp	1.00	umhos/cm				98.1
Total Dissolved Solids	Comp	2.00	mg/L		1500		66
Turbidity	Comp	0.10	NTU	225a			8.24
Total Suspended Solids	Comp	2.00	mg/L				86
Volatile Suspended Solids	Comp	1.00	mg/L				40
MBAS	Comp	0.05	mg/L		0.5		0.08
Total Organic Carbon	Comp	1.00	mg/L				6.13
BOD	Comp	2.00	mg/L				9.84
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.177
Total Phosphorus	Comp	0.05	mg/L				0.206
NH3-N	Comp	0.10	mg/L				0.807
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0.833
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.055
Kjeldahl-N	Comp	0.10	mg/L				2.18
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		275
Dissolved Antimony	Comp	5.00	ug/l				1.42
Total Antimony	Comp	5.00	ug/l		6		1.6
Dissolved Arsenic	Comp	5.00	ug/l			150	1.28
Total Arsenic	Comp	5.00	ug/l	32a	50		1.31
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			0.9	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			62.8	2.58
Total Chromium	Comp	5.00	ug/l		50		6.06
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			3.0	13.9
Total Copper	Comp	5.00	ug/l	12a			18.9
Dissolved Iron	Comp	100.00	ug/l				157
Total Iron	Comp	100.00	ug/l				407
Dissolved Lead	Comp	5.00	ug/l			0.5	2.43
Total Lead	Comp	5.00	ug/l	8a			3.24
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0.209
Dissolved Nickel	Comp	5.00	ug/l			17.7	2.91

Table-4-4 Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Total Nickel	Comp	5.00	ug/l	20a	100		4.08
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			0.4	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			40.2	121
Total Zinc	Comp	50.00	ug/l	80a			140
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				15
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				1.2
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				4.1
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table-4-4 Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0.127
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emisssion Results with Standards

MASS EMISSION MONITORING - DOMINGUEZ CHANNEL

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		8.22
Dissolved Oxygen	Grab	1.00	mg/L		> 5		10.23
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		7000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)	0.07	3000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.43
Fecal Streptococcus	Grab	20.00	MPN/100ml				1100
Fecal Enterococcus	Grab		MPN/100ml		104		1100
General							
Chloride	Comp	2.00	mg/L		150		82.9
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.2		0.6
Nitrate	Comp	0.10	mg/L				2.86
Sulfate	Comp	0.10	mg/L		350		72.2
Alkalinity	Comp	4.00	mg/L				118
Hardness	Comp	2.00	mg/L				180
COD	Comp	10.00	mg/L				32.7
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				612
Total Dissolved Solids	Comp	2.00	mg/L		1500		378
Turbidity	Comp	0.10	NTU	225a			0.61
Total Suspended Solids	Comp	2.00	mg/L				5
Volatile Suspended Solids	Comp	1.00	mg/L				2
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				5.28
BOD	Comp	2.00	mg/L				4.08
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.13
Total Phosphorus	Comp	0.05	mg/L				0.148
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0.646
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.21
Kjeldahl-N	Comp	0.10	mg/L				1.03
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		100
Dissolved Antimony	Comp	5.00	ug/l				1.23
Total Antimony	Comp	5.00	ug/l		6		1.23
Dissolved Arsenic	Comp	5.00	ug/l			150	3.55
Total Arsenic	Comp	5.00	ug/l	32a	50		3.55
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			3.5	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			288.1	5.37
Total Chromium	Comp	5.00	ug/l		50		11.9
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			14.8	8.02
Total Copper	Comp	5.00	ug/l	12a			18.9
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				133
Dissolved Lead	Comp	5.00	ug/l			5.3	0
Total Lead	Comp	5.00	ug/l	8a			0.82
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			85.5	2.22
Total Nickel	Comp	5.00	ug/l	20a	100		2.7
Dissolved Selenium	Comp	5.00	ug/l				1.4
Total Selenium	Comp	5.00	ug/l	60a	50		1.4

Table 4-4. Comparisons of 2003-2004 Mass Emisssion Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Dissolved Silver[f]	Comp	1.00	ug/l			9.5	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			194.4	4.58
Total Zinc	Comp	50.00	ug/l	80a			9.15
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				146
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				4.3
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l	0.008k			0
beta-BHC	Comp	0.05	ug/l				0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emisssion Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

File: wq_dataDRYWEATHER#1_DOMINGUEZ

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - DOMINGUEZ CHANNEL

Beneficial Uses[j]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			1.2
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		7.63
Dissolved Oxygen	Grab	1.00	mg/L		> 5		10.26
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		500
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)	0.07	300
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.60
Fecal Streptococcus	Grab	20.00	MPN/100ml				800
Fecal Enterococcus	Grab		MPN/100ml		104		800
General							
Chloride	Comp	2.00	mg/L		150		91.8
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0
Nitrate	Comp	0.10	mg/L				3.02
Sulfate	Comp	0.10	mg/L		350		46.1
Alkalinity	Comp	4.00	mg/L				62
Hardness	Comp	2.00	mg/L				130
COD	Comp	10.00	mg/L				30.9
TPH	Grab	1.00	mg/L				1.1
Specific Conductance	Comp	1.00	umhos/cm				539
Total Dissolved Solids	Comp	2.00	mg/L		1500		326
Turbidity	Comp	0.10	NTU	225a			1.01
Total Suspended Solids	Comp	2.00	mg/L				11
Volatile Suspended Solids	Comp	1.00	mg/L				9
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				3.72
BOD	Comp	2.00	mg/L				3.39
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.107
Total Phosphorus	Comp	0.05	mg/L				0.12
NH3-N	Comp	0.10	mg/L				0.41042
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0.682
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.514
Kjeldahl-N	Comp	0.10	mg/L				0.762
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0
Dissolved Arsenic	Comp	5.00	ug/l			150	0
Total Arsenic	Comp	5.00	ug/l	32a	50		0
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			2.7	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			220.7	2.53
Total Chromium	Comp	5.00	ug/l		50		4.36
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			11.2	4.58
Total Copper	Comp	5.00	ug/l	12a			6.33
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				0
Dissolved Lead	Comp	5.00	ug/l			3.5	0
Total Lead	Comp	5.00	ug/l	8a			0.82
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			64.9	2.31

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Total Nickel	Comp	5.00	ug/l	20a	100		5.08
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			5.4	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			147.5	19
Total Zinc	Comp	50.00	ug/l	80a			55
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				6.4
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l	0.018k			0
beta-Endosulfan	Comp	0.10	ug/l				0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - SANTA CLARA RIVER

Beneficial Uses[j]: MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			1.7
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.007
pH	Comp	0-14			6.5 < pH < 8.5		7.25
Dissolved Oxygen	Grab	1.00	mg/L		> 5		7.56
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		300000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		80000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.27
Fecal Streptococcus	Grab	20.00	MPN/100ml				500000
Fecal Enterococcus	Grab		MPN/100ml		104		210000
General							
Chloride	Comp	2.00	mg/L		100		70.6
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.31
Nitrate	Comp	0.10	mg/L				3.06
Sulfate	Comp	0.10	mg/L		300		101
Alkalinity	Comp	4.00	mg/L				169
Hardness	Comp	2.00	mg/L				200
COD	Comp	10.00	mg/L				127.3
TPH	Grab	1.00	mg/L				1.9
Specific Conductance	Comp	1.00	umhos/cm				612
Total Dissolved Solids	Comp	2.00	mg/L		1500		392
Turbidity	Comp	0.10	NTU	225a			93.5
Total Suspended Solids	Comp	2.00	mg/L				2202
Volatile Suspended Solids	Comp	1.00	mg/L				172
MBAS	Comp	0.05	mg/L		0.5		0.193
Total Organic Carbon	Comp	1.00	mg/L				34.5
BOD	Comp	2.00	mg/L				37.2
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.427
Total Phosphorus	Comp	0.05	mg/L				0.559
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0.691
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.998
Kjeldahl-N	Comp	0.10	mg/L				8.7
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		600
Dissolved Antimony	Comp	5.00	ug/l				1.91
Total Antimony	Comp	5.00	ug/l		6		1.98
Dissolved Arsenic	Comp	5.00	ug/l			150	3.66
Total Arsenic	Comp	5.00	ug/l	32a	50		3.68
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			3.7	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0.29
Dissolved Chromium	Comp	5.00	ug/l			314.0	4.38
Total Chromium	Comp	5.00	ug/l		50		6.59
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			16.2	10.6
Total Copper	Comp	5.00	ug/l	12a			30.4
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				1460
Dissolved Lead	Comp	5.00	ug/l			6.1	0
Total Lead	Comp	5.00	ug/l	8a			5.41
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			93.5	11.3
Total Nickel	Comp	5.00	ug/l	20a	100		13.6

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
Dissolved Selenium	Comp	5.00	ug/l				1.88
Total Selenium	Comp	5.00	ug/l	60a	50		1.9
Dissolved Silver[f]	Comp	1.00	ug/l			11.4	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			212.5	20.4
Total Zinc	Comp	50.00	ug/l	80a			59.6
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				60.4
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				19.2
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparison of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #1: (10/31/03) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0.082
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - SANTA CLARA RIVER

Beneficial Uses[j]: MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			1.9
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		7.83
Dissolved Oxygen	Grab	1.00	mg/L		> 5		8.32
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		170000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		50000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.29
Fecal Streptococcus	Grab	20.00	MPN/100ml				34000
Fecal Enterococcus	Grab		MPN/100ml		104		27000
General							
Chloride	Comp	2.00	mg/L		100		51.6
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0.65
Nitrate	Comp	0.10	mg/L				0
Sulfate	Comp	0.10	mg/L		300		82.4
Alkalinity	Comp	4.00	mg/L				128
Hardness	Comp	2.00	mg/L				170
COD	Comp	10.00	mg/L				41
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				537
Total Dissolved Solids	Comp	2.00	mg/L		1500		364
Turbidity	Comp	0.10	NTU	225a			24.6
Total Suspended Solids	Comp	2.00	mg/L				1616
Volatile Suspended Solids	Comp	1.00	mg/L				240
MBAS	Comp	0.05	mg/L		0.5		0.051
Total Organic Carbon	Comp	1.00	mg/L				5.85
BOD	Comp	2.00	mg/L				6.74
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.453
Total Phosphorus	Comp	0.05	mg/L				0.839
NH3-N	Comp	0.10	mg/L				0.15
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.1826
Kjeldahl-N	Comp	0.10	mg/L				2.04
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		7800
Dissolved Antimony	Comp	5.00	ug/l				0.93
Total Antimony	Comp	5.00	ug/l		6		2.33
Dissolved Arsenic	Comp	5.00	ug/l			150	1.53
Total Arsenic	Comp	5.00	ug/l	32a	50		3.9
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			3.3	0
Total Cadmium	Comp	1.00	ug/l	4a	5		1.09
Dissolved Chromium	Comp	5.00	ug/l			274.9	1.48
Total Chromium	Comp	5.00	ug/l		50		17.6
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			14.1	4.88
Total Copper	Comp	5.00	ug/l	12a			53.3
Dissolved Iron	Comp	100.00	ug/l				461
Total Iron	Comp	100.00	ug/l				14480
Dissolved Lead	Comp	5.00	ug/l			4.9	1.24
Total Lead	Comp	5.00	ug/l	8a			39.8
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			81.5	6.36

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
Total Nickel	Comp	5.00	ug/l	20a	100		20.2
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		1.08
Dissolved Silver[f]	Comp	1.00	ug/l			8.6	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			185.2	13
Total Zinc	Comp	50.00	ug/l	80a			353
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				21.4
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				1.3
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0.3
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #2: (12/25/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0.021
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - DOMINGUEZ CHANNEL

Beneficial Uses[i]: MUN, IND, PROC, REC-1, REC-2, WARM, WILD, RARE

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			2.2
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0.009
pH	Comp	0-14			6.5 < pH < 8.5		6.14
Dissolved Oxygen	Grab	1.00	mg/L		> 5		10.5
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		50000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)	0.07	50000
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		1.00
Fecal Streptococcus	Grab	20.00	MPN/100ml				240000
Fecal Enterococcus	Grab		MPN/100ml		104		6000
General							
Chloride	Comp	2.00	mg/L		150		7.51
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.4		0
Nitrate	Comp	0.10	mg/L				3.69
Sulfate	Comp	0.10	mg/L		350		5.89
Alkalinity	Comp	4.00	mg/L				22
Hardness	Comp	2.00	mg/L				28
COD	Comp	10.00	mg/L				19.4
TPH	Grab	1.00	mg/L				1.5
Specific Conductance	Comp	1.00	umhos/cm				98.1
Total Dissolved Solids	Comp	2.00	mg/L		1500		66
Turbidity	Comp	0.10	NTU	225a			8.24
Total Suspended Solids	Comp	2.00	mg/L				86
Volatile Suspended Solids	Comp	1.00	mg/L				40
MBAS	Comp	0.05	mg/L		0.5		0.08
Total Organic Carbon	Comp	1.00	mg/L				6.13
BOD	Comp	2.00	mg/L				9.84
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.177
Total Phosphorus	Comp	0.05	mg/L				0.206
NH3-N	Comp	0.10	mg/L				0.807
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		0.833
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.055
Kjeldahl-N	Comp	0.10	mg/L				2.18
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		275
Dissolved Antimony	Comp	5.00	ug/l				1.42
Total Antimony	Comp	5.00	ug/l		6		1.6
Dissolved Arsenic	Comp	5.00	ug/l			150	1.28
Total Arsenic	Comp	5.00	ug/l	32a	50		1.31
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			0.9	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			62.8	2.58
Total Chromium	Comp	5.00	ug/l		50		6.06
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			3.0	13.9
Total Copper	Comp	5.00	ug/l	12a			18.9
Dissolved Iron	Comp	100.00	ug/l				157
Total Iron	Comp	100.00	ug/l				407
Dissolved Lead	Comp	5.00	ug/l			0.5	2.43
Total Lead	Comp	5.00	ug/l	8a			3.24
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0.209
Dissolved Nickel	Comp	5.00	ug/l			17.7	2.91

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
Total Nickel	Comp	5.00	ug/l	20a	100		4.08
Dissolved Selenium	Comp	5.00	ug/l				0
Total Selenium	Comp	5.00	ug/l	60a	50		0
Dissolved Silver[f]	Comp	1.00	ug/l			0.4	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			40.2	121
Total Zinc	Comp	50.00	ug/l	80a			140
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				15
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				1.2
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				4.1
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Storm #3: (1/1/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Dominguez Channel
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l	0.018k			0
beta-Endosulfan	Comp	0.10	ug/l				0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l		0.03k		0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l				0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0.127
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - SANTA CLARA RIVER

Beneficial Uses[i]: MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		8.18
Dissolved Oxygen	Grab	1.00	mg/L		> 5		8
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		50000
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		500
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.01
Fecal Streptococcus	Grab	20.00	MPN/100ml				1300
Fecal Enterococcus	Grab		MPN/100ml		104		1300
General							
Chloride	Comp	2.00	mg/L		100		134
Fluoride f(temp)[i]	Comp	0.10	mg/L		1.8		0.34
Nitrate	Comp	0.10	mg/L				7.02
Sulfate	Comp	0.10	mg/L		300		222
Alkalinity	Comp	4.00	mg/L				249
Hardness	Comp	2.00	mg/L				400
COD	Comp	10.00	mg/L				27.7
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1395
Total Dissolved Solids	Comp	2.00	mg/L		1500		820
Turbidity	Comp	0.10	NTU	225a			139
Total Suspended Solids	Comp	2.00	mg/L				1320
Volatile Suspended Solids	Comp	1.00	mg/L				64
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				4.02
BOD	Comp	2.00	mg/L				2
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.208
Total Phosphorus	Comp	0.05	mg/L				0.237
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.585
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.414
Kjeldahl-N	Comp	0.10	mg/L				0.514
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		224
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0
Dissolved Arsenic	Comp	5.00	ug/l			150	1.86
Total Arsenic	Comp	5.00	ug/l	32a	50		1.86
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			6.2	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			554.0	5.29
Total Chromium	Comp	5.00	ug/l		50		11.4
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			29.3	3.55
Total Copper	Comp	5.00	ug/l	12a			13.5
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				306
Dissolved Lead	Comp	5.00	ug/l			14.7	0
Total Lead	Comp	5.00	ug/l	8a			1.19
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0
Dissolved Nickel	Comp	5.00	ug/l			168.0	13.2
Total Nickel	Comp	5.00	ug/l	20a	100		13.6
Dissolved Selenium	Comp	5.00	ug/l				2.67
Total Selenium	Comp	5.00	ug/l	60a	50		2.67

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
Dissolved Silver[f]	Comp	1.00	ug/l			37.4	0
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			382.4	3.87
Total Zinc	Comp	50.00	ug/l	80a			8.13
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				32.2
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				0
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				3.4
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l				0
beta-BHC	Comp	0.05	ug/l	0.008k			0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #1: (10/28/2003) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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.

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.

i) This constituent is a function of the parameter(s) in parentheses.

j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.

File: wq_dataDRYWEATHER#1_SANTACLARA

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

MASS EMISSION MONITORING - SANTA CLARA RIVER

Beneficial Uses[j]: MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
Conventional							
Oil and Grease	Grab	1.00	mg/L	75a			0
Total Phenols	Grab	0.10	mg/L				0
Cyanide	Grab	0.01	mg/L	0.004a	0.2	0.0052	0
pH	Comp	0-14			6.5 < pH < 8.5		8.19
Dissolved Oxygen	Grab	1.00	mg/L		> 5		8.26
Indicator Bacteria							
Total Coliform	Grab	20.00	MPN/100ml	10000	10,000 (Instantaneous)		130
Fecal Coliform	Grab	20.00	MPN/100ml	400l	400 (Instantaneous)		20
Ratio Fecal Coliform/Total Coliform					Total coliform density 1,000 if the ratio of fecal-to-total coliform exceeds 0.1		0.153846154
Fecal Streptococcus	Grab	20.00	MPN/100ml				40
Fecal Enterococcus	Grab		MPN/100ml		104		40
General							
Chloride	Comp	2.00	mg/L		100		140
Fluoride f(temp)[i]	Comp	0.10	mg/L		2.0		0.33
Nitrate	Comp	0.10	mg/L				5.46
Sulfate	Comp	0.10	mg/L		300		222
Alkalinity	Comp	4.00	mg/L				294
Hardness	Comp	2.00	mg/L				450
COD	Comp	10.00	mg/L				35.2
TPH	Grab	1.00	mg/L				0
Specific Conductance	Comp	1.00	umhos/cm				1413
Total Dissolved Solids	Comp	2.00	mg/L		1500		884
Turbidity	Comp	0.10	NTU	225a			0.84
Total Suspended Solids	Comp	2.00	mg/L				14
Volatile Suspended Solids	Comp	1.00	mg/L				7
MBAS	Comp	0.05	mg/L		0.5		0
Total Organic Carbon	Comp	1.00	mg/L				4.06
BOD	Comp	2.00	mg/L				3.2
Nutrients							
Dissolved Phosphorus	Comp	0.05	mg/L				0.222
Total Phosphorus	Comp	0.05	mg/L				0.267
NH3-N	Comp	0.10	mg/L				0
Nitrate-N	Comp	0.50	mg/L		10 and also must not exceed 10 when added to Nitrite-N		1.23
Nitrite-N	Comp	0.03	mg/L		1 and also must not exceed 10 when added to Nitrate-N		0.6
Kjeldahl-N	Comp	0.10	mg/L				0.918
Metals							
Dissolved Aluminum	Comp	100.00	ug/l				0
Total Aluminum	Comp	100.00	ug/l		1000		0
Dissolved Antimony	Comp	5.00	ug/l				0
Total Antimony	Comp	5.00	ug/l		6		0
Dissolved Arsenic	Comp	5.00	ug/l			150	1.54
Total Arsenic	Comp	5.00	ug/l	32a	50		1.8
Dissolved Berylium	Comp	1.00	ug/l				0
Total Beryllium	Comp	1.00	ug/l		4		0
Dissolved Cadmium	Comp	1.00	ug/l			6.8	0
Total Cadmium	Comp	1.00	ug/l	4a	5		0
Dissolved Chromium	Comp	5.00	ug/l			610.1	3.19
Total Chromium	Comp	5.00	ug/l		50		4.04
Dissolved Chromium +6	Comp	10.00	ug/l				0
Total Chromium +6	Comp	10.00	ug/l	8a			0
Dissolved Copper	Comp	5.00	ug/l			32.4	3.54
Total Copper	Comp	5.00	ug/l	12a			5.96
Dissolved Iron	Comp	100.00	ug/l				0
Total Iron	Comp	100.00	ug/l				120
Dissolved Lead	Comp	5.00	ug/l			17.1	0
Total Lead	Comp	5.00	ug/l	8a			0.65
Dissolved Mercury	Comp	1.00	ug/l				0
Total Mercury	Comp	1.00	ug/l	0.16a	2		0.201
Dissolved Nickel	Comp	5.00	ug/l			185.6	15.4
Total Nickel	Comp	5.00	ug/l	20a	100		17.2
Dissolved Selenium	Comp	5.00	ug/l				2.43
Total Selenium	Comp	5.00	ug/l	60a	50		3
Dissolved Silver[f]	Comp	1.00	ug/l			45.9	0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
Total Silver	Comp	1.00	ug/l	2.8a			0
Dissolved Thallium	Comp	5.00	ug/l				0
Total Thallium	Comp	5.00	ug/l		2		0
Dissolved Zinc	Comp	50.00	ug/l			422.5	26
Total Zinc	Comp	50.00	ug/l	80a			48
Semi-Volatiles Organics (EPA 625)							
2- Chlorophenol	Comp	2.00	ug/l				0
2,4-dichlorophenol	Comp	2.00	ug/l				0
2,4-dimethylphenol	Comp	2.00	ug/l				0
2,4-dinitrophenol	Comp	3.00	ug/l				0
2-nitrophenol	Comp	3.00	ug/l				0
4-nitrophenol	Comp	3.00	ug/l				0
4-chloro_3_methylphenol	Comp	3.00	ug/l				0
Pentachlorophenol	Comp	2.00	ug/l				0
Phenol	Comp	1.00	ug/l				0
2,4,6-trichlophenol	Comp	1.00	ug/l				0
Base/Neutral							
Acenaphthene	Comp	0.05	ug/l				0
Acenaphthylene	Comp	0.05	ug/l				0
Anthracene	Comp	0.05	ug/l				0
Benzidine	Comp	3.00	ug/l				0
1,2 Benzanthracene	Comp	0.10	ug/l				0
Benzo(a)pyrene	Comp	0.10	ug/l		0.2		0
Benzo(k)flouranthene	Comp	0.10	ug/l				0
Bis(2-Chloroethoxy) methane	Comp	0.10	ug/l				0
Bis(2-Chloroisopropyl) ether	Comp	1.00	ug/l				0
Bis(2-Chloroethyl) ether	Comp	0.10	ug/l				0
Bis(2-Ethylhexl) phthalate	Comp	1.00	ug/l				15.8
4-Bromophenyl phenyl ether	Comp	1.00	ug/l				0
Butyl benzyl phthalate	Comp	0.30	ug/l				0
2-Chloronaphthalene	Comp	0.10	ug/l				0
4-Chlorophenyl phenyl ether	Comp	0.10	ug/l				0
Chrysene	Comp	0.10	ug/l				0
Dibenzo(a,h)anthracene	Comp	0.10	ug/l				0
1,3-Dichlorobenzene	Comp	0.05	ug/l				0
1,4-Dichlorobenzene	Comp	0.05	ug/l		5		0
1,2-Dichlorobenzene	Comp	0.05	ug/l		600		0
3,3-Dichlorobenzidine	Comp	3.00	ug/l				0
Diethyl phthalate	Comp	0.50	ug/l				1.5
Dimethyl phthalate	Comp	0.50	ug/l				0
di-n-Butyl phthalate	Comp	1.00	ug/l				0
2,4-Dinitrotoluene	Comp	0.05	ug/l				0
2,6-Dinitrotoluene	Comp	0.05	ug/l				0
4,6 Dinitro-2-methylphenol	Comp	3.00	ug/l				0
1,2-Diphenylhydrazine	Comp	3.00	ug/l				0
di-n-Octyl phthalate	Comp	1.00	ug/l				0
Fluoranthene	Comp	0.10	ug/l				0
Fluorene	Comp	0.10	ug/l				0
Hexachlorobenzene	Comp	0.50	ug/l		1		0
Hexachlorobutadiene	Comp	1.00	ug/l				0
Hexachloro-cyclopentadiene	Comp	3.00	ug/l		50		0
Hexachloroethane	Comp	1.00	ug/l				0
Indeno(1,2,3-cd)pyrene	Comp	0.10	ug/l				0
Isophorone	Comp	0.05	ug/l				0
Naphthalene	Comp	0.05	ug/l				0
Nitrobenzene	Comp	0.05	ug/l				0
N-Nitroso-dimethyl amine	Comp	0.30	ug/l				0
N-Nitroso-diphenyl amine	Comp	0.30	ug/l				0
N-Nitroso-di-n-propyl amine	Comp	0.30	ug/l				0
Phenanthrene	Comp	0.05	ug/l				0
Pyrene	Comp	0.05	ug/l				0
1,2,4-Trichlorobenzene	Comp	0.50	ug/l				0
Chlorinated Pesticides							
Aldrin	Comp	0.05	ug/l				0
alpha-BHC	Comp	0.05	ug/l	0.008k			0
beta-BHC	Comp	0.05	ug/l				0
delta-BHC	Comp	0.05	ug/l				0
gamma-BHC (lindane)	Comp	0.05	ug/l		0.2		0
alpha-chlordane	Comp	0.05	ug/l				0
gamma-chlordane	Comp	0.05	ug/l				0

Table 4-4. Comparisons of 2003-2004 Mass Emission Results with Standards

Class Constituent	Sample Type	PQL[c]	Units	Guidelines and Standards			Dry Weather #2: (1/13/2004) Water Quality Data
				Ocean Plan	Basin Plan	California Toxics Rule (freshwater)[d]	Santa Clara River
4,4'-DDD	Comp	0.10	ug/l				0
4,4'-DDE	Comp	0.10	ug/l				0
4,4'-DDT	Comp	0.10	ug/l				0
Dieldrin	Comp	0.10	ug/l				0
alpha-Endosulfan	Comp	0.10	ug/l				0
beta-Endosulfan	Comp	0.10	ug/l	0.018k			0
Endosulfan sulfate	Comp	0.10	ug/l				0
Endrin	Comp	0.10	ug/l	0.004	2		0
Endrin aldehyde	Comp	0.10	ug/l				0
Heptachlor	Comp	0.05	ug/l		0.01		0
Heptachlor Epoxide	Comp	0.05	ug/l		0.01		0
Toxaphene	Comp	1.00	ug/l		3		0
Polychlorinated Biphenyls							
Aroclor-1016	Comp	0.50	ug/l				0
Aroclor-1221	Comp	0.50	ug/l				0
Aroclor-1232	Comp	0.50	ug/l				0
Aroclor-1242	Comp	0.50	ug/l		0.03k		0
Aroclor-1248	Comp	0.50	ug/l				0
Aroclor-1254	Comp	0.50	ug/l				0
Aroclor-1260	Comp	0.50	ug/l				0
Organohosphate Pesticides							
Chlorpyrifos	Comp	0.05	ug/l		0.07b		0
Diazinon	Comp	0.01	ug/l		0.08b		0
Prometryn	Comp	2.00	ug/l				0
Atrazine	Comp	2.00	ug/l		3		0
Simazine	Comp	2.00	ug/l				0
Cyanazine	Comp	2.00	ug/l				0
Malathion	Comp	2.00	ug/l				0
Herbicides							
Glyphosate	Comp	25.00	ug/l		700		0
2,4-D	Comp	10.00	ug/l		70		0
2,4,5-TP-SILVEX	Comp	1.00	ug/l		50		0
Note:							
1) blank cell indicates sample was not analyzed							
2) 0 indicates level not detected							

a) Criteria based on daily maximum

b) Based on the freshwater acute criteria set by the Department of Fish and Game.

c) PQL is defined as the concentration above which the analyte can be accurately quantified. Reported PQLs were developed by the laboratory during analysis of stormwater runoff samples using professional judgment to account for matrix interferences.

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j) Beneficial uses are defined as follows: MUN - Municipal and Domestic Supply, IND - Industrial Service Supply, PROC - Industrial Process Supply, GWR - Ground Water Recharge, REC1 - Water Contact Recreation, REC2 - Non-Contact Water Recreation, WARM - Warm Freshwater Habitat, COLD - Cold Freshwater Habitat, WILD - Wildlife Habitat, RARE - Rare, Threatened, or Endangered Species, MIGR - Migration of Aquatic Organisms, SPWN - Spawning, Reproduction, and/or Early Development, WET - Wetland Habitat

k) The sum of these constituents must be less than the standard shown.

l) The fecal coliform density standard is based on a minimum of not less than five samples for any 30-day period, where not more than 10 percent of the total samples exceed this objective during any 60-day period.