

2014 ANNUAL REPORT

INDUSTRIAL WASTE PRETREATMENT PROGRAM

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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APPENDIX I
JWPCP MASS EMISSION BENCHMARKS

**JOINT WATER POLLUTION CONTROL PLANT
2014 12-MONTH AVERAGE EFFLUENT MASS EMISSION BENCHMARKS**

Ocean Plan constituent	Average Concentration (ug/L)	2014 Annual Average Flow (MGD)	12-month Average Mass Emission Benchmarks From Permit (MT/yr)	Calculated MER (using Average Concentration) (MT/yr)	Percentage of Mass Emission Benchmark
Marine Aquatic Life Toxicants					
Arsenic	2.07	263	0.95	0.75	79%
Cadmium	ND	263	0.47	ND	ND
Chromium (hexavalent)	ND	263	46.70	ND	ND
Copper	3.03	263	5.78	1.10	19%
Lead	ND	263	3.74	ND	ND
Mercury	0.0028	263	0.23	0.0010	0.4%
Nickel	8.04	263	22.58	2.93	13%
Selenium	4.22	263	5.00	1.54	31%
Silver	ND	263	2.33	ND	ND
Zinc	10.5	263	11.67	3.82	33%
Cyanide	5.50	263	4.05	2.00	49%
Chlorine Residual	70	263	N/a	25.5	N/a
Ammonia as N	41300	263	17070	15028	88%
Phenolic compounds (non-chlorinated)	ND	263	23.35	ND	ND
Phenolic compounds (chlorinated)	ND	263	23.35	ND	ND
Endosulfan	ND	263	0.047	ND	ND
HCH	ND	263	0.0047	ND	ND
Endrin	ND	263	0.0047	ND	ND
Acute Toxicity		263	N/a		N/a
Chronic Toxicity		263	N/a		N/a
Radioactivity		263	N/a		N/a
Human Health Toxicants - Non Carcinogens					
Acrolein	ND	263	4.67	ND	ND
Antimony	2.77	263	1.61	1.01	63%
Bis(2chloroethoxy)methane	ND	263	11.67	ND	ND
Bis(2chloroisopropyl)ether	ND	263	4.67	ND	ND
Chlorobenzene	ND	263	0.23	ND	ND
Chromium (III)	1.1	263	5.60	0.40	7%
Di-n-butyl-phthalate	ND	263	23.35	ND	ND
Dichlorobenzenes	ND	263	4.67	ND	ND
Diethyl phthalate	ND	263	4.67	ND	ND
Dimethyl phthalate	ND	263	4.67	ND	ND
2-Methyl-4,6-dinitrophenol	ND	263	11.67	ND	ND
2,4-Dinitrophenol	ND	263	11.67	ND	ND
Ethyl benzene	ND	263	0.23	ND	ND
Fluoranthene	ND	263	2.33	ND	ND
Hexachlorocyclopentadiene	ND	263	11.67	ND	ND
Nitrobenzene	ND	263	2.33	ND	ND
Thallium	ND	263	4.67	ND	ND
Toluene	ND	263	0.23	ND	ND
Tributyltin	ND	263	0.028	ND	ND
1,1,1-Trichloroethane	ND	263	0.23	ND	ND
Human Health Toxicants - Carcinogens					
Acrylonitrile	ND	263	2.33	ND	ND
Aldrin	ND	263	N/a	ND	N/a
Benzene	ND	263	0.23	ND	ND
Benzidine	ND	263	N/a	ND	N/a
Beryllium	ND	263	0.47	ND	ND
Bis(2-chloroethyl) ether	ND	263	2.33	ND	ND
Bis(2-ethylhexyl) phthalate	3.6	263	15.25	1.31	9%
Carbon tetrachloride	ND	263	0.23	ND	ND
Chlordane	ND	263	N/a	ND	N/a
Chlorodibromomethane	ND	263	1.15	ND	ND
Chloroform	15	263	20.78	5.46	26%
DDT	ND	263	N/a	ND	N/a
1,4-Dichlorobenzene	ND	263	2.33	ND	ND
3,3'-Dichlorobenzidine	ND	263	0.065	ND	ND
1,2-Dichloroethane	ND	263	0.23	ND	ND
1,1-Dichloroethylene	ND	263	0.23	ND	ND
Bromodichloromethane	0.67	263	0.84	0.24	29%
Dichloromethane	1.8	263	5.38	0.65	12%
1,3-Dichloropropene	ND	263	0.23	ND	ND
Dieldrin	ND	263	N/a	ND	N/a
2,4-Dinitrotoluene	ND	263	11.67	ND	ND
1,2-Diphenylhydrazine	ND	263	2.33	ND	ND
Halomethanes	ND	263	1.5	ND	ND
Heptachlor	ND	263	N/a	ND	N/a
Heptachlor epoxide	ND	263	N/a	ND	N/a
Hexachlorobenzene	ND	263	N/a	ND	N/a
Hexachlorobutadiene	ND	263	2.33	ND	ND
Hexachloroethane	ND	263	2.33	ND	ND
Isophorone	ND	263	2.33	ND	ND
N-Nitrosodimethylamine	ND	263	11.67	ND	ND
N-Nitrosodi-N-propylamine	ND	263	11.67	ND	ND
N-Nitrosodiphenylamine	ND	263	2.33	ND	ND
PAHs	ND	263	23.35	ND	ND
PCBs	ND	263	N/a	ND	N/a
TCDD equivalents	ND	263	N/a	ND	N/a
1,1,2,2-Tetrachloroethane	ND	263	0.23	ND	ND
Tetrachloroethylene	0.14	263	4.41	0.05	1%
Toxaphene	ND	263	N/a	ND	N/a
Trichloroethylene	ND	263	0.23	ND	ND
1,1,2-Trichloroethane	ND	263	0.23	ND	ND
2,4,6-Trichlorophenol	ND	263	23.35	ND	ND
Vinyl chloride	ND	263	0.23	ND	ND

ND = Not Detected, N/a = No Benchmark was established in the permit for this constituent