

**2015 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  
2015 12-MONTH AVERAGE EFFLUENT MASS EMISSION BENCHMARKS**

Ocean Plan constituent	Average Concentration (ug/L)	2015 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
<b>Marine Aquatic Life Toxicants</b>					
Arsenic	1.97	258	0.95	0.70	74%
Cadmium	0.03	258	0.47	0.01	2%
Chromium (hexavalent)	0.06	258	46.70	0.02	0.05%
Copper	3.41	258	5.78	1.22	21%
Lead	0.05	258	3.74	0.02	0.5%
Mercury	0.0029	258	0.23	0.0010	0.5%
Nickel	7.79	258	22.58	2.78	12%
Selenium	3.81	258	5.00	1.36	27%
Silver	ND	258	2.33	ND	ND
Zinc	11.4	258	11.67	4.07	35%
Cyanide	6.13	258	4.05	2.19	54%
Chlorine Residual	16.05	258	N/a	5.7	N/a
Ammonia as N	41.8	258	17070	15	0%
Phenolic compounds (non-chlorinated)	ND	258	23.35	ND	ND
Phenolic compounds (chlorinated)	ND	258	23.35	ND	ND
Endosulfan	ND	258	0.047	ND	ND
HCH	ND	258	0.0047	ND	ND
Endrin	ND	258	0.0047	ND	ND
Acute Toxicity		258	N/a		N/a
Chronic Toxicity		258	N/a		N/a
Radioactivity		258	N/a		N/a
<b>Human Health Toxicants - Non Carcinogens</b>					
Acrolein	ND	258	4.67	ND	ND
Antimony	3.14	258	1.61	1.12	70%
Bis(2chloroethoxy)methane	ND	258	11.67	ND	ND
Bis(2chloroisopropyl)ether	ND	258	4.67	ND	ND
Chlorobenzene	ND	258	0.23	ND	ND
Chromium (III)	1.56	258	5.60	0.56	10%
Di-n-butyl-phthalate	ND	258	23.35	ND	ND
Dichlorobenzenes	ND	258	4.67	ND	ND
Diethyl phthalate	ND	258	4.67	ND	ND
Dimethyl phthalate	ND	258	4.67	ND	ND
2-Methyl-4,6-dinitrophenol	ND	258	11.67	ND	ND
2,4-Dinitrophenol	ND	258	11.67	ND	ND
Ethyl benzene	ND	258	0.23	ND	ND
Fluoranthene	ND	258	2.33	ND	ND
Hexachlorocyclopentadiene	ND	258	11.67	ND	ND
Nitrobenzene	ND	258	2.33	ND	ND
Thallium	ND	258	4.67	ND	ND
Toluene	ND	258	0.23	ND	ND
Tributyltin	ND	258	0.028	ND	ND
1,1,1-Trichloroethane	ND	258	0.23	ND	ND
<b>Human Health Toxicants - Carcinogens</b>					
Acrylonitrile	ND	258	2.33	ND	ND
Aldrin	ND	258	N/a	ND	N/a
Benzene	ND	258	0.23	ND	ND
Benzidine	ND	258	N/a	ND	N/a
Beryllium	ND	258	0.47	ND	ND
Bis(2-chloroethyl) ether	ND	258	2.33	ND	ND
Bis(2-ethylhexyl) phthalate	2.5	258	15.25	0.89	6%
Carbon tetrachloride	ND	258	0.23	ND	ND
Chlordane	ND	258	N/a	ND	N/a
Chlorodibromomethane	ND	258	1.15	ND	ND
Chloroform	15	258	20.78	5.36	26%
DDT	ND	258	N/a	ND	N/a
1,4-Dichlorobenzene	ND	258	2.33	ND	ND
3,3'-Dichlorobenzidine	ND	258	0.065	ND	ND
1,2-Dichloroethane	ND	258	0.23	ND	ND
1,1-Dichloroethylene	ND	258	0.23	ND	ND
Bromodichloromethane	0.72	258	0.84	0.26	31%
Dichloromethane	1.9	258	5.38	0.68	13%
1,3-Dichloropropene	ND	258	0.23	ND	ND
Dieldrin	ND	258	N/a	ND	N/a
2,4-Dinitrotoluene	ND	258	11.67	ND	ND
1,2-Diphenylhydrazine	ND	258	2.33	ND	ND
Halomethanes	ND	258	1.5	ND	ND
Heptachlor	ND	258	N/a	ND	N/a
Heptachlor epoxide	ND	258	N/a	ND	N/a
Hexachlorobenzene	ND	258	N/a	ND	N/a
Hexachlorobutadiene	ND	258	2.33	ND	ND
Hexachloroethane	ND	258	2.33	ND	ND
Isophorone	ND	258	2.33	ND	ND
N-Nitrosodimethylamine	ND	258	11.67	ND	ND
N-Nitrosodi-N-propylamine	ND	258	11.67	ND	ND
N-Nitrosodiphenylamine	ND	258	2.33	ND	ND
PAHs	ND	258	23.35	ND	ND
PCBs	ND	258	N/a	ND	N/a
TCDD equivalents	ND	258	N/a	ND	N/a
1,1,2,2-Tetrachloroethane	ND	258	0.23	ND	ND
Tetrachloroethylene	2.7	258	4.41	0.96	22%
Toxaphene	ND	258	N/a	ND	N/a
Trichloroethylene	ND	258	0.23	ND	ND
1,1,2-Trichloroethane	ND	258	0.23	ND	ND
2,4,6-Trichlorophenol	ND	258	23.35	ND	ND
Vinyl Chloride	ND	258	0.23	ND	ND

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