

2022 ANNUAL REPORT

INDUSTRIAL WASTE PRETREATMENT PROGRAM

LOS ANGELES COUNTY SANITATION DISTRICTS

ROBERT C. FERRANTE
CHIEF ENGINEER AND GENERAL MANAGER

SUBMITTED
April 13, 2023

APPENDIX I
JWPCP MASS EMISSION BENCHMARKS

Table 4.6
JOINT WATER POLLUTION CONTROL PLANT
2022 CALCULATED MASS EMISSION RATE

Ocean Plan Constituent	Annual Average Concentration (ug/L)	Annual Average Flow (MGD)	Calculated Mass Emission Rate (MT/yr)	12-month Average Mass Emission Benchmarks From Permit (MT/yr)	Ratio, Mass Emission Rate to Benchmark (%)
Marine Aquatic Life Toxicants					
Arsenic	2.13	237	0.696	1.3	54%
Cadmium	ND	237	ND	0.1	ND
Chromium (hexavalent)	0.1	237	0.03	0.8	4%
Copper	3.3	237	1.1	2.6	42%
Lead	ND	237	ND	0.2	ND
Mercury	ND	237	ND	0.02	ND
Nickel	7.2	237	2.4	6.9	34%
Selenium	5.00	237	1.64	5.9	28%
Silver	ND	237	ND	0.1	ND
Zinc	8.73	237	2.86	9.0	32%
Cyanide	2.60	237	0.85	5.3	16%
Ammonia as N	43,200	237	14,146	25,000	57%
Phenolic compounds (non-chlorinated)	1.3	237	0.43	1.9	22%
Phenolic compounds (chlorinated)	0.60	237	0.20	1.0	20%
Endosulfan	ND	237	ND	0.008	ND
HCH	ND	237	ND	0.008	ND
Endrin	ND	237	ND	0.005	ND
Human Health Toxicants - Non Carcinogens					
Acrolein	ND	237	ND	2.7	ND
Antimony	1.66	237	0.544	3.6	15%
Bis(2chloroethoxy)methane	ND	237	ND	0.7	ND
Bis(2chloroisopropyl)ether	ND	237	ND	0.8	ND
Chlorobenzene	ND	237	ND	0.6	ND
Chromium (III)	1.2	237	0.39	1.5	26%
Di-n-butyl-phthalate	ND	237	ND	2.3	ND
Dichlorobenzenes	ND	237	ND	0.3	ND
Diethyl phthalate	ND	237	ND	1.1	ND
Dimethyl phthalate	ND	237	ND	1.0	ND
2-Methyl-4,6-dinitrophenol	ND	237	ND	6.9	ND
2,4-Dinitrophenol	ND	237	ND	9.0	ND
Ethylbenzene	ND	237	ND	1.0	ND
Fluoranthene	ND	237	ND	1.0	ND
Hexachlorocyclopentadiene	ND	237	ND	4.0	ND
Nitrobenzene	ND	237	ND	1.2	ND
Thallium	ND	237	ND	0.3	ND
Toluene	ND	237	ND	0.3	ND
Tributyltin	ND	237	ND	0.005	ND
1,1,1-Trichloroethane	ND	237	ND	1.0	ND
Human Health Toxicants - Carcinogens					
Acrylonitrile	ND	237	ND	1.4	ND
Aldrin	ND	237	ND	0.002	ND
Benzene	ND	237	ND	0.399	ND
Beryllium	ND	237	ND	0.1	ND
Bis(2-chloroethyl) ether	ND	237	ND	0.5	ND
Bis(2-ethylhexyl) phthalate	ND	237	ND	7.4	ND
Carbon tetrachloride	ND	237	ND	0.5	ND
Chlorodibromomethane	ND	237	ND	1.3	ND
Chloroform	16.4	237	5.37	13.5	40%
1,4-Dichlorobenzene	ND	237	ND	0.5	ND
1,2-Dichloroethane	ND	237	ND	0.3	ND
1,1-Dichloroethylene	ND	237	ND	0.6	ND
Bromodichloromethane	0.28	237	0.092	0.8	11%
Dichloromethane	2.4	237	0.79	1.6	49%
1,3-Dichloropropene	ND	237	ND	0.3	ND
2,4-Dinitrotoluene	ND	237	ND	0.5	ND
1,2-Diphenylhydrazine	ND	237	ND	0.3	ND
Halomethanes	ND	237	ND	0.5	ND
Hexachlorobutadiene	ND	237	ND	0.4	ND
Hexachloroethane	ND	237	ND	0.4	ND
Isophorone	ND	237	ND	0.3	ND
N-Nitrosodimethylamine	0.27	237	0.088	0.4	22%
N-Nitrosodi-N-propylamine	ND	237	ND	0.3	ND
N-Nitrosodiphenylamine	ND	237	ND	0.4	ND
PAHs	ND	237	ND	0.5	ND
1,1,2,2-Tetrachloroethane	ND	237	ND	0.2	ND
Tetrachloroethylene	ND	237	ND	10.6	ND
Trichloroethylene	ND	237	ND	0.5	ND
1,1,2-Trichloroethane	ND	237	ND	0.2	ND
2,4,6-Trichlorophenol	0.6	237	0.2	0.3	65%
Vinyl Chloride	ND	237	ND	0.7	ND

1. ND = Not Detected

2. Mass Emission Rates were calculated using the annual average concentration and annual average flow and have been rounded in the above table. Values were not rounded when calculating the Ratio.