Marine Discharge Pipe Effluent Standards

Original 66 articles promulgated by Environmental Protection Administration order (83) Huan-Shu-Shui-Tzu No. 31073 on July 13, 1994.

Revised Article 4 promulgated by Environmental Protection Administration order Huan-Shu-Shui-Tzu No. 0920041930E on June 18, 2003.

Revised full text in 6 articles promulgated by Environmental Protection Administration order Huan-Shu-Shui-Tzu No. 0920089957 on November 17, 2003.

Revised full text in 5 articles promulgated by Environmental Protection Administration order Huan-Shu-Shui-Tzu No. 1000103917 on December 1, 2011; name revised from original name of "Marine Effluent Standards".

Revised attached Table 1 and Table 2 in Article 4 promulgated by Environmental Protection Administration order Huan-Shu-Shui-Tzu No. 1060081235 on October 20, 2017.

Article 1

These Standards are determined pursuant to Article 7, Paragraph 2 of the Water Pollution Control Act.

Article 2

These Standards are applicable to enterprises or sewage systems discharging wastewater or sewage into the sea via marine discharge pipes.

Article 3

Enterprises or sewage systems employing marine discharge pipes to discharge wastewater or sewage into the sea must comply with the limits specified in attached Table 1 and 2.

Article 4

Concerning the limits in the foregoing paragraph, apart from the pH, which is defined as a range and not in units, the rest are defined as the maximum allowed value using the following units of measure:

I. E. Coli: colony count on filter membrane per 100 mL water sample (CFU/100mL).

II. Water temperature: Celsius (℃).

III. Other items: milligrams per liter (mg/L)

Article 5

Unless an enforcement date is separately designated, these standards shall take effect on the date of promulgation.

Table 1:

Applicable area	Item	Limit	Remarks
Class A marine areas	pH	6.0–9.0	
	Biological oxygen demand (BOD)	100	
	Chemical oxygen demand (COD)	200	
	Suspended solids	100	
	Biological oxygen demand (BOD)	80	Applicable to newly-established enterprises or sewage systems for which project bid request procedures had not yet been completed as of October 20, 2017.
	Chemical oxygen demand (COD)	160	
	Suspended solids	80	
	Biological oxygen demand (BOD)	80	1. Enforced from July 1, 2018. 2. When a project or other improvement measure is involved, the enterprise or sewage systems shall submit an effluent pollutant reduction management plan by March 1, 2018, and shall implement the content of said plan after approval by the special municipality, county, or city competent authority; enforced from January 1, 2021.
	Chemical oxygen demand (COD)	160	
	Suspended solids	80	
	E. Coli	5,000,000	
	Oil and grease (n-hexane extract)	20	
	Phenols	1.0	
	Cyanide	1.0	
	Arsenic	3.0	
	Cadmium	0.5	
	Total chromium	2.0	
	Copper	2.0	
	Lead	5.0	
	Total mercury	0.10	
	Zinc	4.0	

	Nickel	1.0	
	Total residual chlorine	1.0	
	Water temperature	42	
	Benzene	0.05	
	Ethylbenzene	0.4	
	Dichloromethane	0.2	
	Chloroform	0.6	
	1,2-Dichloroethane	0.10	
	Chloroethene	0.10	
	Dimethyl phthalate (DMP)	0.2	
	Diethyl phthalate (DEP)	0.4	
	Dibutyl phthalate (DBP)	0.4	
	Benzyl butyl phthalate (BBP)	0.4	
	Di-n-octyl Phthalate (DNOP)	0.6	
	Di(2-ethylhexyl)phthalate (DEHP)	0.2	

Attached Table 2:

Applicable area	Item	Limit	Remarks
Class B marine areas	pH	6.0–9.0	
	Biological oxygen demand (BOD)	150	
	Chemical oxygen demand (COD)	300	
	Suspended solids	150	
	Biological oxygen demand (BOD)	100	Applicable to newly-established enterprises or sewage systems for which project bid request procedures had not yet been completed as of October 20, 2017.
	Chemical oxygen demand (COD)	280	
	Suspended solids	100	
	Biological oxygen demand (BOD)	100	1. Enforced from July 1, 2018. 2. When a project or other improvement measure is involved, the enterprise or sewage systems shall submit an effluent pollutant reduction management plan by March 1, 2018, and shall implement the content of said plan after approval by the special municipality, county, or city competent authority; enforced from January 1, 2021.
	Chemical oxygen demand (COD)	280	
	Suspended solids	100	
	E. Coli	10,000,000	
	Oil and grease (n-hexane extract)	20	
	Anionic surfactants	1.0	
	Cyanide	1.0	
	Arsenic	3.0	
	Cadmium	0.5	
	Total chromium	2.0	
	Copper	2.0	
	Lead	5.0	
	Total mercury	0.10	
	Zinc	4.0	

	Nickel	1.0	
	Total residual chlorine	2.0	
	Water temperature	42	
	Benzene	0.05	
	Ethylbenzene	0.4	
	Dichloromethane	0.2	
	Chloroform	0.6	
	1,2-Dichloroethane	0.10	
	Chloroethene	0.10	
	Dimethyl phthalate (DMP)	0.2	
	Diethyl phthalate (DEP)	0.4	
	Dibutyl phthalate (DBP)	0.4	
	Benzyl butyl phthalate (BBP)	0.4	
	Di-n-octyl Phthalate (DNOP)	0.6	
	Di(2-ethylhexyl)phthalate (DEHP)	0.2	