

Table 4 Water quality items and limits of discharge from the chemical engineering industry

Item		Limit	Remarks
Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (from May to September)	
		Lower than 35°C (from October to April of the following year)	
	Direct discharge into the ocean	Water temperature at discharge point $\leq 42^{\circ}\text{C}$ ; temperature difference of surface water 500m from discharge point $\leq 4^{\circ}\text{C}$	
Hydrogen ion concentration index		6.0—9.0	
Villiaumite		15	
Nitrate nitrogen		50	
Ammonia nitrogen	Discharged into tap water quality and volume protection area		10
	Discharged into sites outside tap water quality and volume protection area	Manufacturers of non-high nitrogen processes constructed, under construction or finishing tendering procedures before Jan. 22, 2014	20
		Manufacturers of high nitrogen processes constructed, under construction or finishing tendering procedures before Jan. 22, 2014	60
		Tendering procedures not completed before Jan. 22, 2014	20
Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area		4.0
Phenols		1.0	
Anionic surfactant		10	
Cyanide		1.0	
Grease (Hexane extracts)		10	
Dissolved iron		10	
Dissolved manganese		10	
Cadmium	Constructed, under construction or		0.03

	tendering procedures completed before Dec. 25, 2017		
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of more than 500m <sup>3</sup> /day	0.02	
	Tendering procedures not completed before Dec. 25, 2017	0.02	
Lead	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	1.0	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of more than 500m <sup>3</sup> /day	0.5	
	Tendering procedures not completed before Dec. 25, 2017	0.5	
Total chromium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of more than 500m <sup>3</sup> /day	1.5	
	Tendering procedures not completed before Dec. 25, 2017	1.5	
Hexavalent chromium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.5	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of more than 500m <sup>3</sup> /day	0.35	
	Tendering procedures not completed before Dec. 25, 2017	0.35	
Copper	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of less than 500m <sup>3</sup> /day	3.0 2.0	In effect from Jan. 1, 2027.
	Tendering procedures not completed before Dec. 25, 2017 with an approved discharge volume of less than 500m <sup>3</sup> /day	1.5	
	Constructed, under construction or tendering procedures completed before Dec. 18, 2024 with an approved discharge volume of more than 500m <sup>3</sup> /day	1.5 1.0	In effect from Jan. 1, 2027.
	Tendering procedures not completed before Dec. 18, 2024 with an approved discharge volume of more than 500m <sup>3</sup> /day	1.0	
	Constructed, under construction or	5.0	

Zinc	tendering procedures completed before Dec. 25, 2017		
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of more than 500m <sup>3</sup> /day	3.5	
	Tendering procedures not completed before Dec. 25, 2017	3.5	
Nickel	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	1.0	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of more than 500m <sup>3</sup> /day	0.7	
	Tendering procedures not completed before Dec. 25, 2017	0.7	
Selenium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.5	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of more than 500m <sup>3</sup> /day	0.35	
	Tendering procedures not completed before Dec. 25, 2017	0.35	
Arsenic	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.5	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of more than 500m <sup>3</sup> /day	0.35	
	Tendering procedures not completed before Dec. 25, 2017	0.35	
Tin	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume of more than 500m <sup>3</sup> /day	2.0	
	Tendering procedures not completed before Dec. 25, 2017	1.0	
Methyl mercury		0.0000002	
Total mercury		0.005	
Silver		0.5	
Boron	Discharged into tap water quality and volume protection area	1.0	
	Discharged into sites outside tap water quality and volume protection area	5.0	
Molybdenum		0.6	
Sulfide		1.0	

Formaldehyde		3.0	
Polychlorinated biphenyl		0.00005	
Dioxin	Vinyl chloride manufacturer constructed, under construction or finishing tendering procedures before Oct. 12, 2012	10	
	Vinyl chloride manufacturer not finishing tendering procedures before Oct. 12, 2012	5	
Biochemical oxygen demand		30	
Chemical oxygen demand		100	
Suspended solids		30	
True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	400	
	Tendering procedures not completed before Dec. 25, 2017	300	
Free available residual chlorine		2.0	
Cobalt	Basic chemicals, other chemical materials, coating materials, dyes and paints, other chemical products and battery manufacturing industries	1.0	
Barium	Basic chemicals, artificial fiber, synthetic resin, plastic and rubber, other chemical materials, coating materials, dyes and paints, cleaning products, cosmetic, other chemical products and battery manufacturing industries	2.0	
Methylene chloride		0.2	
Chloroform		0.6	
Benzene	Basic chemicals, synthetic resin, plastic and rubber, other chemical materials, coating materials, dyes and paints, cosmetics, other chemical products manufacturing industries	0.05	
Ethyl benzene		0.4	
1,2-dichloroethane		0.10	
Vinyl chloride		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	
Bis(2-ethylhexyl) phthalate (DEHP)		0.2	
Nitrobenzene		0.4	
Trichloroethylene		0.3	
Acrylonitrile	Approved discharge volume of more than 10,000 m <sup>3</sup> per day except for those only producing fertilizers or using lime or coal products for manufacture	0.2	
1,2-butadiene		0.1	