Article Content

Title：	Effluent Standards CH
Amended Date：	2019-04-29
Category：	Environmental Protection Administration（行政院環境保護署）
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Article 1 The Standards are established pursuant to Article 7, Paragraph 2 of the Water Pollution Control Act (hereinafter referred to as the “Act”).

Article 2 The water quality items and limits for the effluent standards of the enterprises, sewage systems and building sewage treatment facilities are specified below:
I. Enterprises
(I) Wafer and semiconductor manufacturing industry: Table 1.
(II) Optoelectronic materials and components manufacturing industry: Table 2.
(III) Petrochemical industry: Table 3.
(IV) Chemical engineering industry: Table 4.
(V) Primary metal industry, metal finishing industry, electroplating industry, and PCB manufacturing industry: Table 5.
(VI) Power plant: Table 6.
(VII) Seawater desalination plant : Table 7.
(VIII) Industries other than those referred to in the preceding 7 subparagraphs: Table 8.
II. Sewage systems
(I) Dedicated sewage systems in science parks: Table 9.

(II) Dedicated sewage systems in petrochemical industrial parks: Table 10.
(III) Dedicated sewage systems in other industrial parks: Table 110.
(IV) Dedicated sewage systems in communities: Table 12.
(V) Dedicated sewage systems in other specified areas or places: Table 13.
(VI) Public sewage systems: Table 14.
III. Building sewage treatment facilities: Table 15.
For the wastewater or sewage that an enterprise or sewage system discharges into a special receiving water body in the total quantity control zone (hereinafter referred to as the “Total Quantity Control Zone”) of a water body for farmlands that must be protected as announced by the special municipality, county or city competent authority, the requirements of Table 16 shall be applicable to the limits of copper, zinc, total chromium, nickel, cadmium and hexavalent chromium in such wastewater or sewage. However, the requirements of Table 16 are not applicable in case enterprises or sewage systems located in the Total Quantity Control Zone do not discharge wastewater or sewage into a receiving water body in the Total Quantity Control Zone.
Where other effluent standards are established for any industries or any enterprises, sewage systems and building sewage treatment facilities in the Total Quantity Control Zone, or the special municipality, county or city competent authority additionally establishes or more strictly revises the effluent standards in the area under their respective administration power pursuant to Article 7, Paragraph 2 of the Act, such effluent standards shall apply.
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Article 2-1 Requirements of Table 9 shall apply in case the permitted and approved sewer-connected water volume for the petrochemical and

chemical engineering industries with respect to a sewage system in an industrial park reaches more than fifty percent of the permitted and approved discharge volume. Requirements of Table 10 shall apply in case such permitted and approved sewer-connected water volume for the petrochemical and chemical engineering industries does not reach fifty percent of the permitted and approved discharge volume.

The wastewater (sewage) discharged from seawater desalination plants is subject to the following effluent standards:

I. When seawater is treated as raw water and brine, filtering and backwashing wastewater, membrane cleaning wastewater or other mixed treatment wastewater with regard to desalination is discharged, Table 7 shall apply.

II. When the produced wastewater (sewage) is discharged through marine discharge pipes to the ocean, the Marine Discharge Pipe Effluent Standards shall apply.

Article 3 Enterprises and the associations to which the enterprises belong or any environmental protection groups may put forward scientific data or information at any time as a reference for review and amendment.

Article 4 The COD limits specified in the Standards shall be tested using the potassium dichromate oxidation method; the true color shall be tested using the true color colorimetry.

Article 5 Terms used in the Standards shall be defined below:

I. Total toxic organics: means the total concentration of 30 compounds: 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, Toluene, Benzen, Chloroform, 1,2-Dichloroethane, Dichloromethane, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Bromodichloromethane, Perchloroethylene, Trichloroethylene, 1,1-Dichloroethene, 2-Chlorophenol, 2,4-Dichlorophenol, 4-Nitrophenol, Pentachlorophenol, 2-Nitrophenol, Phenol, 2,4,6-Trichlorophenol, Bis(2-ethylhexyl)phthalate, Dibutyl phthalate, Benzyl butyl phthalate, Anthanthrene, 1,2-Diphenylhydrazine, Isophorone, Carbon tetrachloride and Naphthalene.

II. Processes of high nitrogen connection in the petrochemical industry: means the following processes that uses nitrogen and produces wastewater with a volume reaching more than forty percent of the permitted and approved discharge volume:

(I) Nitrogen trifluoride and electronic-grade liquid ammonia manufacture process.

(II) Chemical manufacture process of methyl methacrylate (MMA).

(III) Acrylonitrile manufacture process.

(IV) Chemical manufacture process of acrylonitrile-butadiene (AB).

(V) Chemical manufacture process of acrylonitrile-butadiene-

styrene (ABS).
(VI) Chemical manufacture process of acrylonitrile-butadiene-styrene (AS).
(VII) Caprolactam manufacture process.
(VIII) Chemical manufacture process of ammonium sulfate.
(IX) Polyamide (Nylon) manufacture process.
III. Processes of high nitrogen connection in the chemical engineering industry: means the following processes that uses nitrogen and the chemical engineering industry that produces wastewater with a volume reaching more than forty percent of the permitted and approved discharged volume:
(I) Chemical manufacture process of ammonium.
(II) Nitrogenous fertilizer manufacture process.
(III) Chemical manufacture process of ammonium fertilizer.
(IV) Ammonium phosphate fertilizer manufacture process.
(V) Compound fertilizer with nitrogen manufacture process.
(VI) Nitrogen trifluoride manufacture process.
(VII) Chemical manufacture process of ammonium sulfate.
(VIII) Chemical manufacture process of ethylenediamine tetraacetate (EDTA).
(IX) Other Ammonia-bearing compounds manufacture process.
(X) Acrylonitrile manufacture process.
(XI) Chemical manufacture process of urea.
(XII) Aniline manufacture process.
(XIII) Caprolactam manufacture process.
(XI) Chemical manufacture process of ethanolamine.
(XV) Chemical manufacture process of acid amine.
(XVI) Other synthetic amine and nitrile compounds manufacture process.
(XVII) Chemical manufacture process of Methyl methacrylate (MMA).
(XVIII) Urethane manufacture process.
(XIX) Urea formaldehyde resin manufacture process.
(XX) Melamine resin manufacture process.
(XXI) Polyacrylonitrile (PAN) fiber manufacture process.
(XXII) Polyamide (nylon) manufacture process.
(XXIII) Chemical manufacture process of acrylonitrile-butadiene copolymer (AB).
(XXIV) Chemical manufacture process of acrylonitrile-butadiene-styrene copolymer (ABS).
(XXV) Chemical manufacture process of acrylonitrile-styrene copolymer copolymer (AS).
(XXVI) Dye manufacture process (Azo dyes).
(XXVII) Coke manufacture process, including coke and its by-product, beehive coke, fluidized coke and petroleum coke manufacturing process.
IV. Dioxin: The test value is calculated as the product of the measured concentrations of 17 compounds, including 2,3,7,8-

tetrachlorinated dibenzo-p-dioxin-2,3,7,8-TeCDD, 2,3,7,8-tetrachlorinated dibenzofuran,2,3,7,8-TeCDF and 2,3,7,8- penta-, hexa-, hepta-, and octa-chlorinated dioxins and furans multiplied by the international dioxin toxic equivalency factors (I-TEF), and is expressed as Toxicity Equivalency Quantity (TEQ) of 2,3,7,8-tetrachlorinated dibenzo-p-dioxin quantity.
V. Total organophosphates: Total amount of the 29 compounds, Methamidophos, Phosdrin (Mevinphos), Demeton-s-methyl, Ethoprophos, Monocrotophos, Phorate, Dimethoate, Terbufos, Diazinon, Dyfonate, Disulfoton, Methyl Parathion, Pirimifos-methyl, Fenitrothion, Malathion, Chlorpyrifos, Fenthion, Parathion, Bromophos-methyl, Phenthoate, Bromophos-ethyl, Methidathion, Prothiofos, Ethion, Triazophos, Carbophenothion, EPN, Phosalone and Azinphos-methyl.
VI. Total carbamates: Total amount of the 9 compounds, Fenobucarb, Carbofuran, Methomyl, Undam, Isoprocarb, Oxamyl, Aldicarb, Carbaryl and Mercaptodimethur.
VII. Herbicides: Total amount of the 7 compounds, Butachlor, Paraquat, 2,4-D, Alachlor, Chlornitrofen, Imazapyr, Glyphosate and Diquat.
VIII. 7-Day average: Sampling every 4 to 8 hours and do 4 samples a day. Combining those 4 samples into 1 for analyzing and take the arithmetic mean of those samples from 7 continuous days.

Article 6 The limits of all the items, except for the hydrogen ion concentration index defined as a range, are defined as a maximum allowed value with the following measuring units:
I. Hydrogen ion concentration index: No unit.
II. True color: No unit.
III. Coliform group: CFU/100mL.
IV. Dioxin: pg I-TEQ/L.
V. Other items: mg/L.

Article 7 The limits of all the items, except for water temperature and hydrogen ion concentration index, of the non-contact cooling water that enterprises or sewage systems take from a water body and use it for cooling or circulation purpose are not subject to the Standards if it is discharged into the surface water body in the original water intake area.

Article 8 In the event that enterprises, sewage systems, or building sewage treatment facilities belong to two or more industry types within the scope of the Standards or to a single industry type but have different processes, the combined treatment and discharge of wastewater shall conform to the effluent standards for each of the concerned industry types. If different control limits are available for the same control item, the stricter limit shall apply. In the event that the flow of wastewater from

one of the industry types in the preceding paragraph is at least 75% of the total flow of wastewater, and that independent and exclusive cumulative water measuring facilities have been installed, an application may be submitted to the competent authority for the use of the effluent standards of concerned industry type as the basis of control for all common items. The percentage of the flow of wastewater in the preceding paragraph shall be calculated in accordance with the records of the six months prior to the date of application.

Article 9 The Standards come into force on the promulgation date unless any other enforcement date is specified.

Table 1 Water quality items and limits of discharge from the wafer and semiconductor manufacturing industry

Item			Limit	Remarks
Water temperature	Discharge into non-marine surface water bodies		Lower than 38°C (for May to September)	
			Lower than 35°C (for October to next April)	
	Direct discharge to the ocean		Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
Hydrogen ion concentration index			6.0—9.0	
Villiaumite			15	
Nitrite nitrogen			50	
Ammonia nitrogen	Discharged into tap water quality and volume protection area		10	
	Discharged into places outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec.1, 2011	30	
		Tendering procedures not completed before Dec.1, 2011	20	
Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area		4.0	
Phenols			1.0	
Anion surfactant			10	
Cyanide			1.0	
Grease (Hexane extracts)			10	
Dissolved iron			10	
Dissolved manganese			10	
Cadmium	Constructed, under construction or tendering procedures completed before Dec.25, 2017		0.03	
	Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m^3/day		0.02	In effect from Jan. 1, 2021.
	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 more than 500m^3/day		0.5	In effect from Jan. 1, 2021.

	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 more than 500m^3/day	1.5	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec.25, 2017	0.35	
Copper	Constructed, under construction or tendering procedures completed before Dec.25, 2017	3.0	
	Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m^3/day	1.5	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec.25, 2017	1.5	
Zinc	Constructed, under construction or tendering procedures completed before Dec.25, 2017	5.0	
	Constructed, under construction or tendering procedures completed before Dec.25, 2017 with an approved discharge volume more than 500m^3/day	3.5	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.7	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	2.0	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec.25, 2017	1.0	
Total mercury		0.005	
Silver		0.5	
Boron	Discharged into tap water quality and volume protection area	1.0	
	Discharged into places outside tap water quality and volume protection area	5.0	
Molybdenum	Constructed, under construction or tendering procedures completed before Dec.25, 2017	0.6	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec.25, 2017	0.6	
Sulfide		1.0	
Chemical oxygen demand		100	
Suspended solids		30	
Total toxic organics		1.37	
N-methylpyrrolidone	Approved discharge volume more than 10,000 m^3 per day except for those only engaging in polishing, cutting, testing or packaging.	1.0	In effect from Jan. 1, 2021.
2-Methoxy-1-propano		0.1	
Dimethylacetamide		0.1	
Cobalt		1.0	
Antimony		1.0	

Table 2 Water quality items and limits of discharge from the optoelectronic materials and components manufacturing industry

Item			Limit	Remarks
Water temperature	Discharge into non-marine surface water bodies		Lower than 38°C (for May to September)	
			Lower than 35°C (for October to next April)	
	Direct discharge to the ocean		Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
Hydrogen ion concentration index			6.0—9.0	
Villiaumite			15	
Nitrite nitrogen			50	
Ammonia nitrogen	Discharged into tap water quality and volume protection area		10	
	Discharged into places outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Oct. 12, 2012	30	
		Tendering procedures not completed before Oct. 12, 2012	20	
Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area		4.0	
Phenols			1.0	
Anion surfactant			10	
Cyanide			1.0	
Grease (Hexane extracts)			10	
Dissolved iron			10	
Dissolved manganese			10	
Cadmium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		0.03	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume more than 500m^3/day		0.02	In effect from Jan. 1, 2021.
	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 more than 500m^3/day		0.5	In effect from Jan. 1, 2021.

	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 more than 500m^3/day	1.5	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	0.35	
Copper	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.0	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume more than 500m^3/day	1.5	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	1.5	
Zinc	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	5.0	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume more than 500m^3/day	3.5	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.7	In effect from Jan. 1, 2021.
	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	0.35	In effect from Jan. 1, 2021.

	completed before Dec. 25, 2017 with an approved discharge volume more than 500m^3/day		
	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 more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	2.0	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	1.0	
Total mercury		0.005	
Silver		0.5	
Boron	Discharged into tap water quality and volume protection area	1.0	
	Discharged into places outside tap water quality and volume protection area	5.0	
Sulfide		1.0	
Biochemical oxygen demand		30	
Chemical oxygen demand		100	
Suspended solids		30	
True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
		400	In effect from Jan. 1, 2021.
	Tendering procedure not completed before Dec. 25, 2017	300	
Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
	Tendering procedure not completed before Dec. 25, 2017	2.0	
Indium		0.1	
Gallium		0.1	
Molybdenum		0.6	
Total toxic organics		1.37	
N-methylpyrrolidone	Approved discharge volume more than 10,000 m^3 per day except for those only engaging in polishing, cutting, testing or packaging.	1.0	In effect from Jan. 1, 2021.
2-Methoxy-1-propano		0.1	
Dimethylacetamide		0.1	
N-Methylformamide		1.0	
Diethylene glycol dimethyl ether		1.0	

Table 3 Water quality items and limits of discharge from the petrochemical industry

Item			Limit	Remarks
Water temperature	Discharge into non-marine surface water bodies		Lower than 38°C (for May to September)	
			Lower than 35°C (for October to next April)	
	Direct discharge to the ocean		Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
Hydrogen ion concentration index			6.0—9.0	
Nitrite nitrogen			50	
Ammonia nitrogen	Discharged into tap water quality and volume protection area		10	
	Discharged into places outside tap water quality and volume protection area	Non-high nitrogen processes constructed, under construction or finishing tendering procedures before Dec. 1, 2011.	20	
		High nitrogen processes constructed, under construction or finishing tendering procedures before Dec. 1, 2011	60	
		Tendering procedures not completed before Dec. 1, 2011	20	
Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area		4.0	
Phenols			1.0	
Anion surfactant			10	
Grease (Hexane extracts)			10	
Sulfide			1.0	
Chemical oxygen demand			100	
Suspended solids			30	
True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		550	
			400	In effect from Jan. 1, 2021.
	Tendering procedure not completed before Dec. 25, 2017		300	

Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
	Tendering procedure not completed before Dec. 25, 2017	2.0	
Benzene		0.05	
Ethyl benzene		0.4	
Methylene chloride	Petrochemical basic chemicals manufacturing industry, petrochemical midstream products manufacturing industry, petrochemical downstream products manufacturing industry	0.2	
Chloroform		0.6	
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	
Acrylonitrile	Approved discharge volume more than 10,000 m^3 per day except for those only producing natural gas.	0.2	In effect from Jan. 1, 2021.
1,2-butadiene		0.1	

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 (for May to September)	
			Lower than 35°C (for October to next April)	
	Direct discharge to the ocean		Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
Hydrogen ion concentration index			6.0—9.0	
Villiaumite			15	
Nitrite nitrogen			50	
Ammonia nitrogen	Discharged into tap water quality and volume protection area		10	
	Discharged into places 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	1. In effect from Jul. 1, 2014. 2. In effect from Dec. 31, 2017 for those involving construction and improvement measures, submitting discharge pollutant reduction management plan before Mar. 31, 2014, and acquiring the approval from the special municipality or county (city) competent authority to execute pursuant to the plan.
		Manufacturers of high nitrogen processes constructed, under construction or finishing tendering procedures before Jan. 22, 2014	150	
			60	1. In effect from Dec. 31, 2018.
		Tendering procedures not completed before Jan. 22, 2014	20	
Orthophosphate (calculated based on trivalent phosphateion)	Discharged into tap water quality and volume protection area		4.0	

Phenols		1.0	
Anion surfactant		10	
Cyanide		1.0	
Grease (Hexane extracts)		10	
Dissolved iron		10	
Dissolved manganese		10	
Cadmium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.03	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume more than 500m^3/day	0.02	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.5	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	1.5	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	0.35	
Copper	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.0	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume more than 500m^3/day	1.5	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	1.5	

Zinc	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	5.0	
	Constructed, under construction or tendering procedures completed before Dec. 25, 2017 with an approved discharge volume more than 500m^3/day	3.5	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.7	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	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 more than 500m^3/day	2.0	In effect from Jan. 1, 2021.
	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 places outside tap water quality and volume protection area	5.0	

Molybdenum	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.6	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	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	550	
		400	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	300	
Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	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, cosmetic, 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 more than 10,000 m^3 per day except for those only producing fertilizers or using lime or coal products for manufacture.	0.2	In effect from Jan. 1, 2021.
1,2-butadiene		0.1	

Table 5 Water quality items and limits of discharge from the primary metal industry, metal finishing industry, electroplating industry, PCB manufacturing industry

Item				Limit	Remarks
Water temperature	Discharge into non-marine surface water bodies			Lower than 38°C (for May to September)	
				Lower than 35°C (for October to next April)	
	Direct discharge to the ocean			Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
Hydrogen ion concentration index				6.0 - 9.0	
Villiaumite				15	
Nitrite nitrogen				50	
Ammonia nitrogen	Primary metal industry, metal finishing industry, electroplating industry, and PCB manufacturing industry	Discharged into tap water quality and volume protection area		10	
	Metal finishing industry, electroplating industry	Discharged into places outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	150	In effect from Jan. 1, 2021.
				120	In effect from Jan. 1, 2024.
				60	In effect from Jan. 1, 2027.
			Tendering procedure not completed before Dec. 25, 2017	20	
Orthophosphate (calculated based on trivalent phosphateion)	Discharged into tap water quality and volume protection area			4.0	
Phenols				1.0	
Anion surfactant				10	
Cyanide				1.0	
Grease (Hexane extracts)				10	
Dissolved iron				10	
Dissolved manganese				10	
Cadmium	Constructed, under construction or tendering procedure completed before Dec. 25, 2017			0.03	

	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day	0.02	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	0.02	
Lead	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	1.0	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day	0.5	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	0.5	
Total chromium	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	2.0	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day	1.5	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	1.5	
Hexavalent chromium	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	0.5	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	0.35	
Copper	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	3.0	

	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day	1.5	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	1.5	
Zinc	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	5.0	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day	3.5	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	3.5	
Nickel	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	1.0	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day	0.7	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	0.7	
Selenium	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	0.5	
	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day	0.35	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017	0.35	
Arsenic	Constructed, under construction or tendering procedure completed before Dec. 25, 2017	0.5	

	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day		0.35	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017		0.35	
Tin	Electroplating industry, metal finishing industry, and primary metal industry constructed, under construction or finishing tendering procedures before Dec. 25, 2017 with an approved discharge volume more than 150m^3/day, or PCB manufacturing industry with an approved discharge volume more than 500m^3/day		2.0	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017		1.0	
Total mercury			0.005	
Silver			0.5	
Boron	Primary metal industry, PCB manufacturing industry	Discharged into tap water quality and volume protection area	1.0	
		Discharged into places outside tap water quality and volume protection area	5.0	
	Metal finishing industry, electroplating industry	Discharged into tap water quality and volume protection area	1.0	
		Discharged into places outside tap water quality and volume protection area	12	
			10	In effect from Jan. 1, 2024.
			5.0	In effect from Jan. 1, 2027.
Molybdenum	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		0.6	In effect from Jan. 1, 2021.
	Tendering procedures not completed before Dec. 25, 2017		0.6	
Sulfide			1.0	
Chemical oxygen demand	Primary metal industry, metal finishing industry, electroplating industry		100	
	PCB manufacturing industry		120	
Suspended solids	Primary metal industry, metal finishing industry, electroplating industry		30	
	PCB manufacturing industry		50	
Biochemical oxygen demand	PCB manufacturing industry		50	

Table 6 Water quality items and limits of discharge from power plants

Item		Limit		Remarks
Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (for May to September)		
		Lower than 35°C (for October to next April)		
	Direct discharge to the ocean	Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C		
Hydrogen ion concentration index		6.0 - 9.0		
Villiaumite		15		
Nitrite nitrogen		50		
Ammonia nitrogen	Discharged into tap water quality and volume protection area	10		
	Discharged into places outside tap water quality and volume protection area	Generating units constructed, under construction or finishing tendering procedures before Dec. 25, 2017	150	In effect from Jan. 1, 2021.
			100	In effect from Jan. 1, 2024.
			60	In effect from Jan. 1, 2027.
		Generating units not finishing tendering procedures before Dec. 25, 2017	20	
Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area	4.0		
Phenols		1.0		
Anion surfactant		10		
Grease (Hexane extracts)		10		
Dissolved iron		10		
Dissolved manganese		10		
Cadmium		0.03		
Lead		1.0		
Total chromium		2.0		
Hexavalent chromium		0.5		
Total mercury	Power plants constructed, under construction or finishing tendering procedures before Dec. 25, 2017	0.005		
	Coal-fired generating units constructed, under construction or finishing tendering procedures before Dec. 25, 2017 and producing flue gas desulfurization wastewater discharged into treatment facilities	0.002		In effect from Jan. 1, 2021.
	Coal-fired generating units not finishing tendering procedures before Dec. 25, 2017 and producing flue gas desulfurization wastewater discharged into treatment facilities	0.002		
Copper		3.0		

Table 6 Water quality items and limits of discharge from power plants

Item		Limit		Remarks
Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (for May to September)		
		Lower than 35°C (for October to next April)		
	Direct discharge to the ocean	Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C		
Hydrogen ion concentration index		6.0 - 9.0		
Villiaumite		15		
Nitrite nitrogen		50		
Ammonia nitrogen	Discharged into tap water quality and volume protection area	10		
	Discharged into places outside tap water quality and volume protection area	Generating units constructed, under construction or finishing tendering procedures before Dec. 25, 2017	150	In effect from Jan. 1, 2021.
			100	In effect from Jan. 1, 2024.
			60	In effect from Jan. 1, 2027.
		Generating units not finishing tendering procedures before Dec. 25, 2017	20	
Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area	4.0		
Phenols		1.0		
Anion surfactant		10		
Grease (Hexane extracts)		10		
Dissolved iron		10		
Dissolved manganese		10		
Cadmium		0.03		
Lead		1.0		
Total chromium		2.0		
Hexavalent chromium		0.5		
Total mercury	Power plants constructed, under construction or finishing tendering procedures before Dec. 25, 2017	0.005		
	Coal-fired generating units constructed, under construction or finishing tendering procedures before Dec. 25, 2017 and producing flue gas desulfurization wastewater discharged into treatment facilities	0.002		In effect from Jan. 1, 2021.
	Coal-fired generating units not finishing tendering procedures before Dec. 25, 2017 and producing flue gas desulfurization wastewater discharged into treatment facilities	0.002		
Copper		3.0		

Zinc		5.0	
Silver		0.5	
Nickel		1.0	
Selenium	Power plants constructed, under construction or finishing tendering procedures before Dec. 25, 2017	0.5	
	Coal-fired generating units constructed, under construction or finishing tendering procedures before Dec. 25, 2017 and producing flue gas desulfurization wastewater discharged into treatment facilities	0.3	In effect from Jan. 1, 2021.
	Coal-fired generating units not finishing tendering procedures before Dec. 25, 2017 and producing flue gas desulfurization wastewater discharged into treatment facilities	0.1	
Arsenic	Power plants constructed, under construction or finishing tendering procedures before Dec. 25, 2017	0.5	
	Coal-fired generating units constructed, under construction or finishing tendering procedures before Dec. 25, 2017 and producing flue gas desulfurization wastewater discharged into treatment facilities	0.1	In effect from Jan. 1, 2021.
	Coal-fired generating units not finishing tendering procedures before Dec. 25, 2017 and producing flue gas desulfurization wastewater discharged into treatment facilities	0.1	
Boron	Discharged into tap water quality and volume protection area	1.0	
	Discharged into places outside tap water quality and volume protection area	5.0	
Sulfide		1.0	
Biochemical oxygen demand		30	
Chemical oxygen demand		100	
Suspended solids		30	
Total residual chlorine(or chlorine-produced oxidants)		0.5	1. Total residual chlorine is subject to an effluent salinity of less than 10 psu (Practical Salinity Unit) 2. The chlorine-produced oxidants is subject to an effluent salinity of greater than or equal to 10 psu (Practical Salinity Unit). This should be tested using the chlorine-produced oxidants testing method, but the total residual chlorine testing method shall be used before the chlorine-produced oxidants testing method is announced.

Table 7 Water quality items and limits of discharge from seawater desalination plants

Item		Limit	Remarks
Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (for May to September)	
		Lower than 35°C (for October to next April)	
	Direct discharge to the ocean	Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
Hydrogen ion concentration index		6.0~9.0	
Chemical oxygen demand		100	
Suspended solids		50	
Total residual chlorine(or chlorine-produced oxidants)		0.5	1.Total residual chlorine is subject to an effluent salinity of less than 10 psu (Practical Salinity Unit) 2.The chlorine-produced oxidants is subject to an effluent salinity of greater than or equal to 10 psu (Practical Salinity Unit). This should be tested using the chlorine-produced oxidants testing method, but the total residual chlorine testing method shall be used before the chlorine-produced oxidants testing method is announced.
Ammonia nitrogen		20	
Anion surfactant		10	
Grease (Hexane extracts)		10	
Dissolved iron		10	
Dissolved manganese		10	
Cadmium		0.03	
Lead		1.0	
Total chromium		2.0	
Hexavalent chromium		0.5	
Total mercury		0.005	
Copper		3.0	
Zinc		5.0	
Silver		0.5	
Nickel		1.0	
Selenium		0.5	
Arsenic		0.5	

註解 [KH1]:

原文:「陰離子界面活性劑」，目前是依照之前舊版的英譯：「Anion surfactant」，剛好有查詢到網路上還有另一譯文:「Anionic surfactant」，提供給您參考，再煩請確認~

Table 8 Water quality items and limits of discharge from the industries other than the wafer and semiconductor manufacturing industry, optoelectronic materials and components manufacturing industry, petrochemical industry, chemical engineering industry, primary metal industry, metal finishing industry, electroplating industry, PCB manufacturing industry, power plant and seawater desalination plants

Scope	Item		Limit	Remarks
All	Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (for May to September)	
			Lower than 35°C (for October to next April)	
		Direct discharge to the ocean	Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
	Hydrogen ion concentration index		6.0—9.0	
	Villiaumite		15	
	Nitrite nitrogen		50	This is not applicable to total nitrogen control.
	Ammonia nitrogen	Discharged into tap water quality and volume protection area	10	1. For ammonia nitrogen and orthophosphate control in the livestock industry, the competent authority will announce the control date and effluent standard in consultation with the authority in charge of the industry. 2. Orthophosphate is not applicable to total phosphorus control.
	Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area	4.0	
	Phenols		1.0	
	Anion surfactant		10	
	Cyanide		1.0	
	Grease (Hexane extracts)		10	
	Dissolved iron		10	
	Dissolved manganese		10	
	Cadmium		0.03	
	Lead		1.0	
	Total chromium		2.0	
	Hexavalent chromium		0.5	
	Methyl mercury		0.0000002	
	Total mercury		0.005	
	Copper		3.0	
	Zinc		5.0	
	Silver		0.5	
	Nickel		1.0	
	Selenium		0.5	
	Arsenic		0.5	
	Boron	Discharged into tap water quality and volume protection area	1.0	

		Discharged into places outside tap water quality and volume protection area	5.0	
	Sulfide		1.0	
	Formaldehyde		3.0	
	Polychlorinated biphenyl		0.00005	
	Total organic phosphate agent		0.5	
	Total carbamate		0.5	
	Herbicide		1.0	
	Endosulfan		0.03	
	Endrin		0.0002	
	Lindane		0.004	
	Heptachlor and derivatives		0.001	
	DDT and derivatives		0.001	
	Aldrin and Dieldrin		0.003	
	Pentrachlorophenol and its salts		0.005	
	Toxaphene		0.005	
	Pentachloronitrobenzene		0.00005	
	Folpet		0.00025	
	Captafol		0.00025	
	Captan		0.00025	
	Dioxin	Paper pulp industry or other industries that are equipped with waste incinerators, have air pollution control equipment with wet or semi-dry scrubbers, that are constructed, under construction or finish tendering procedures before Oct. 12, 2012	10	
		Paper pulp industry or other industries that are equipped with waste incinerators, have air pollution control equipment with wet or semi-dry scrubbers, that are not constructed, under construction or do not finish tendering procedures before Oct. 12, 2012	5	
		Steam supply industry constructed, under construction or tendering procedures completed before Apr. 29, 2019	10	In effect from Jul. 1, 2020

		Steam supply industry with tendering procedures not completed before Apr. 29, 2019	5	In effect from Jul. 1, 2020
Pharmaceutical manufacturing industry	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
			400	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	2.0	
Pesticide and environmental and sanitation agent manufacturing industry	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
			400	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	2.0	
	Molybdenum	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.6	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.6	
Rubber manufacturing industry	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
Wool washing industry	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
			400	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.

			Tendering procedures not completed before Dec. 25, 2017	2.0	
Textile industry		Biochemical oxygen demand		30	
		Chemical oxygen demand		100	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedures not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedures not completed before Dec. 25, 2017	2.0	
Printing, dyeing and finishing industry	Printing and woven fabric dyeing	Biochemical oxygen demand		30	
		Chemical oxygen demand		160	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedures not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedures not completed before Dec. 25, 2017	2.0	
	Cheese and hank dyeing, knitted and non-woven fabric dying	Biochemical oxygen demand		30	
		Chemical oxygen demand		140	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedures not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedures not completed before Dec. 25, 2017	2.0	
	Finishing, paper printing, brushing, chipping, sanding and those not	Biochemical oxygen demand		30	
		Chemical oxygen demand		100	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.

	belonging to the prior two categories		Tendering procedure not completed before Dec. 25, 2017		300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017		2.0	
Leather making industry	Manufacturers making finished leather from rawhide	Biochemical oxygen demand			30	
		Chemical oxygen demand			160	
		Suspended solids			30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		550	
					400	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017		300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017		2.0	
		Ammonia nitrogen	Discharged into places outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	150	In effect from Jan. 1, 2021.
					60	In effect from Jan. 1, 2024.
				Tendering procedure not completed before Dec. 25, 2017	20	
	Manufacturers making finished leather from wet blue	Biochemical oxygen demand			30	
		Chemical oxygen demand			200	
		Suspended solids			30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		550	
					400	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017		300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017		2.0	

	Manufacturers other than those “making finished leather from rawhide”, “and making finished leather from wet blue”	Biochemical oxygen demand		30	
		Chemical oxygen demand		100	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	2.0	
Paper pulp industry		Chemical oxygen demand		150	
		Suspended solids		50	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	2.0	
Paper making industry	Waste paper not used as raw material	Biochemical oxygen demand		30	
		Chemical oxygen demand		100	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	2.0	
	Waste paper used as raw material to more than 60%	Biochemical oxygen demand		30	
		Chemical oxygen demand		180	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.

			Tendering procedure not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	2.0	
	Waste paper used as raw material to less than 60%	Biochemical oxygen demand		30	
		Chemical oxygen demand		160	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	2.0	
Mining industry, ceramic industry, earth and stone extracting industry		Chemical oxygen demand		100	
		Suspended solids		50	
Earth and gravel processing industry		Chemical oxygen demand		100	
		Suspended solids		50	
				150	Applicable to sand and stone produced during dredging and used as raw material without involving extraction of earth and stone, but not including application in violation of Article 18-1 of the Act.
Glass manufacturing industry		Chemical oxygen demand		100	
		Suspended solids		50	
Cement industry		Chemical oxygen demand		100	
		Suspended solids		50	
Other industries		Biochemical oxygen demand		30	
		Chemical oxygen demand		100	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.

		Tendering procedure not completed before Dec. 25, 2017		2.0	
	Molybdenum	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		0.6	In effect from Jan. 1, 2021.
		Tendering procedure not completed before Dec. 25, 2017		0.6	
Due recycled waste recycling and processing industry	Chemical oxygen demand			200	
	Suspended solids			50	
Waste landfills	Chemical oxygen demand			200	
	Suspended solids			50	
	Ammonia nitrogen	Discharged into places outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	150	In effect from Jan. 1, 2021.
				60	In effect from Jan. 1, 2024.
			Tendering procedure not completed before Dec. 25, 2017	20	
Waste incinerators and other waste treatment plants (facilities)	Chemical oxygen demand			100	
	Suspended solids			30	
	Coliform group			200,000	Applicable to carcass rendering process industry
Wastewater treatment service industry	Biochemical oxygen demand			30	
	Chemical oxygen demand			100	
	Suspended solids			30	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		550	
				400	In effect from Jan. 1, 2021.
		Tendering procedure not completed before Dec. 25, 2017		300	
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		2.0	In effect from Jan. 1, 2021.
		Tendering procedure not completed before Dec. 25, 2017		2.0	
	Coliform group			200,000	
Nightsoil treatment plants (facilities)	Biochemical oxygen demand			50	
	Chemical oxygen demand			100	
	Suspended solids			50	
	Coliform group			300,000	
Environmental analysis and testing organizations	Biochemical oxygen demand			30	
	Chemical oxygen demand			100	
	Suspended solids			30	
Experimental, testing	Biochemical oxygen demand			30	

(chemical) and research laboratories	Chemical oxygen demand		200	
	Suspended solids		50	
Laundry industry	Chemical oxygen demand		100	
	Suspended solids		50	
Shipbreaking and ship cleaning industries	Chemical oxygen demand		100	
	Suspended solids		50	
Shipbuilding and repairing industry	Chemical oxygen demand		100	
	Suspended solids		30	
Car washes	Chemical oxygen demand		100	
	Suspended solids		50	
Vehicle repair plants	Chemical oxygen demand		100	
	Suspended solids		30	
Photograph developing and plate-making industries	Chemical oxygen demand		100	
	Suspended solids		30	
Food manufacturing industry: Without carcass rendering process	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
Food manufacturing industry: With carcass rendering process	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
	Coliform group		200,000	
Milling industry	Biochemical oxygen demand		50	
	Chemical oxygen demand		100	
	Suspended solids		80	
Fermentation industry (ferment manufacturing industry; MSG manufacturing industry; liquor, alcohol and vinegar manufacturing industry; Soybean sauce manufacturing industry; antibiotics and solvent manufacturing industry)	Biochemical oxygen demand		50	
	Chemical oxygen demand		150	
	Suspended solids		50	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
			400	In effect from Jan. 1, 2021.
		Tendering procedure not completed before Dec. 25, 2017	300	
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
		Tendering procedure not completed before Dec. 25, 2017	2.0	
Sugar refining industry	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
Meat markets	Biochemical oxygen demand		80	
	Chemical oxygen demand		150	
	Suspended solids		80	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
			400	In effect from Jan. 1, 2021.
		Tendering procedure not completed before Dec. 25, 2017	300	

		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	2.0	
Fish markets		Biochemical oxygen demand		30	
		Chemical oxygen demand		100	
		Suspended solids		30	
Slaughtering industry		Biochemical oxygen demand		80	
		Chemical oxygen demand		150	
		Suspended solids		80	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedure not completed before Dec. 25, 2017	2.0	
		Coliform group		200,000	
Aquaculture		Biochemical oxygen demand		30	
		Chemical oxygen demand		100	
		Suspended solids		30	
Stock farming	Non-herbivorous animals such as pig, chicken, duck and goose	Biochemical oxygen demand		80	
		Chemical oxygen demand		600	
		Suspended solids		150	
	Herbivorous animals such as cattle, horse, sheep, deer and rabbit	Biochemical oxygen demand		80	
		Chemical oxygen demand		450	
		Suspended solids		150	
Hospitals and medical institutions		Biochemical oxygen demand		30	
		Chemical oxygen demand		100	
		Suspended solids		30	
		Coliform group		200,000	
Zoos		Biochemical oxygen demand		50	
		Chemical oxygen demand		150	
		Suspended solids		50	
		Coliform group		300,000	
Amusement parks		Biochemical oxygen demand		50	
		Chemical oxygen demand		150	
		Suspended solids		50	
		Coliform group		300,000	
Catering industry		Biochemical oxygen demand		50	Pure hot spring wastewater that meetss the requirements of the Water Pollution
		Chemical oxygen demand		150	
		Suspended solids		50	

		Coliform group			300,000	Control Measures and Test Reporting Management Regulations may be discharged into the surface water body to which the source of the hot spring concerned belongs if the water temperature meets the control limits of the Standards.
Tourist hotels	Tourist hotels	Biochemical oxygen demand	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		50	Pure hot spring wastewater that meets the requirements of the Water Pollution Control Measures and Test Reporting Management Regulations may be discharged into the surface water body to which the source of the hot spring concerned belongs if the water temperature meets the control limits of the Standards.
		Chemical oxygen demand			150	
		Suspended solids			50	
		Coliform group			300,000	
		Biochemical oxygen demand	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		30	1. In effect from Jan. 1, 2021. 2. Pure hot spring wastewater that meets the requirements of the Water Pollution Control Measures and Test Reporting Management Regulations
		Chemical oxygen demand			100	
		Suspended solids			30	
		Coliform group			200,000	may be discharged into the surface water body to which the source of the hot spring concerned belongs if the water temperature meets the control limits of the Standards.
		Total nitrogen	Discharged into tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	15	In effect from Jan. 1, 2021.
		Total phosphorus			2.0	
		Biochemical oxygen demand	Tendering procedures not completed before Dec. 25, 2017		30	Pure hot spring wastewater that meets the requirements of the Water Pollution Control Measures and Test Reporting Management Regulations may be discharged into the surface water body to which the source of the hot spring concerned belongs if the water temperature meets the control limits of the Standards.
		Chemical oxygen demand			100	
		Suspended solids			30	
		Coliform group			200,000	
		Total nitrogen	Discharged into tap water quality and volume protection area	Tendering procedures not completed before Dec. 25, 2017	15	
		Total phosphorus			2.0	
	Hotels, B&B	Biochemical oxygen demand			50	Pure hot spring wastewater that meets the requirements
		Chemical oxygen demand			150	

		Suspended solids		50	of the Water Pollution Control Measures and Test Reporting Management Regulations may be discharged into the surface water body to which the source of the hot spring concerned belongs if the water temperature meets the control limits of the Standards.
		Coliform group		300,000	
Coal storage sites, construction sites, earth and gravel storage (disposal) sites		Biochemical oxygen demand		30	Control of construction and earth and gravel storage (disposal) sites is only applicable if required measures are not taken pursuant to regulations.
		Chemical oxygen demand		100	
		Suspended solids		30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
				400	In effect from Jan. 1, 2021.
			Tendering procedures not completed before Dec. 25, 2017	300	
		Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
			Tendering procedures not completed before Dec. 25, 2017	2.0	
Cargo container distributors		Chemical oxygen demand		100	
		Suspended solids		30	
Tap water treatment facilities		Chemical oxygen demand		100	As a response to the warning of torrential rain or natural disaster, water supply plants may directly discharge and are not subject to the Standards if they have taken emergency response measures pursuant to the Water Pollution Control Measures and Test Reporting Management Regulations.
		Suspended solids		50	
		Total residual chlorine		0.5	
Reclaimed water industry	Discharge volume > 250 m³/day	Biochemical oxygen demand		30	In effect from Jan. 1, 2019.
		Chemical oxygen demand		100	
		Suspended solids		30	
		Coliform group		200,000	
		Total nitrogen	Discharged into tap water quality and volume protection area	15	
		Total phosphorus		2.0	
	Discharge volume ≤ 250 m³/day	Biochemical oxygen demand		50	
		Chemical oxygen demand		150	
		Suspended solids		50	
		Coliform group		300,000	
		Total nitrogen	Discharged into tap water quality and volume protection area	15	
		Total phosphorus		2.0	
Livestock excrement and biomass energy recycling treatment center		Biochemical oxygen demand		80	In effect from Jan. 1, 2019. For the industries engaged in collecting livestock manure or digestate liquid and fiber that are anaerobically fermented as the bait for algae, rotifers, water fleas
		Chemical oxygen demand		600	
		Suspended solids		150	

				and other aquatic seedlings or for aquaculture, the standard would be in effect from Jul. 1, 2019.
Steam supply industry	Chemical oxygen demand		100	In effect from Jul. 1, 2020.
	uspended solids		30	
Other industries designated by the central competent authority	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
			400	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	2.0	

Table 9 Water quality items and limits of discharge from dedicated sewage systems in science parks

Scope	Item			Limit	Remarks
All	Water temperature	Discharge into non-marine surface water bodies		Lower than 38°C (for May to September)	
				Lower than 35°C (for October to next April)	
		Direct discharge to the ocean		Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
	Hydrogen ion concentration index			6.0—9.0	
	Villiaumite			15	
	Nitrite nitrogen			50	
	Ammonia nitrogen	Discharged into tap water quality and volume protection area		10	
		Discharged into places outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Oct. 12, 2012	30	
			Tendering procedures not completed before Oct. 12, 2012	20	
	Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area		4.0	
	Phenols			1.0	
	Anion surfactant			10	
	Cyanide			1.0	
	Grease (Hexane extracts)			10	
	Dissolved iron			10	
	Dissolved manganese			10	
	Cadmium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		0.03	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017		0.02	In effect from Jan. 1, 2021.
		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		0.5	In effect from Jan. 1, 2021.

		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	1.5	In effect from Jan. 1, 2021.
		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	0.35	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.35	
	Copper	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	1.5	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	1.5	
	Zinc	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	5.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.5	In effect from Jan. 1, 2021.
		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	0.7	In effect from Jan. 1, 2021.
		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	0.35	In effect from Jan. 1, 2021.
		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	0.35	In effect from Jan. 1, 2021.

		Tendering procedures not completed before Dec. 25, 2017	0.35		
	Tin	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0		In effect from Jan. 1, 2021.
		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 places outside tap water quality and volume protection area	5.0		
	Sulfide		1.0		
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550		
			400		In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	300		
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0		In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	2.0		
	Indium		0.1		
	Gallium		0.1		
	Molybdenum		0.6		
	Total toxic organics		1.37		
	N-methylpyrrolidone		1.0		In effect from Jan. 1, 2021.
	2-Methoxy-1-propano		0.1		
	Dimethylacetamide		0.1		
	Cobalt		1.0		
	Antimony		1.0		
	N-Methylformamide		1.0		
	Diethylene glycol dimethyl ether		1.0		
Constructed, under construction or tendering procedures completed before Jul. 31, 2009 with an approved discharge volume less than 10,000 m^3 per day	Biochemical oxygen demand		Maximum	30	
			7-day average	25	
	Chemical oxygen demand		Maximum	100	
			7-day average	80	
	Suspended solids		Maximum	30	
			7-day average	25	
Tendering procedures not completed before Jul. 31, 2009; constructed, under construction or	Biochemical oxygen demand		Maximum	25	
			7-day average	20	
	Chemical oxygen demand		Maximum	80	
			7-day average	65	
	Suspended solids		Maximum	25	

tendering procedures completed before Jul. 31, 2009 with an approved discharge volume at least 10,000 m^3 per day		7-day average	20	

Table 10 Water quality items and limits of discharge from dedicated sewage systems in petrochemical industrial parks

Scope	Item		Limit	Remarks
All	Water temperature	Discharge into non-marine surface water bodies	Lower than 38℃ (for May to September)	
			Lower than 35℃ (for October to next April)	
		Direct discharge to the ocean	Water temperature at discharge point ≤ 42℃; temperature difference of surface water 500m from discharge point ≤ 4℃	
	Hydrogen ion concentration index		6.0—9.0	
	Nitrite nitrogen		50	
	Ammonia nitrogen	Constructed, under construction or tendering procedures completed before Dec. 1, 2011	60	
		Tendering procedures not completed before Dec. 1, 2011	20	
	Phenols		1.0	
	Anion surfactant		10	
	Cyanide		1.0	
	Grease (Hexane extracts)		10	
	Dissolved iron		10	
	Dissolved manganese		10	
	Cadmium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.03	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.02	In effect from Jan. 1, 2021.
		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	0.5	In effect from Jan. 1, 2021.
		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	1.5	In effect from Jan. 1, 2021.
		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	0.35	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.35	
	Copper	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	1.5	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	1.5	
	Zinc	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	5.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.5	In effect from Jan. 1, 2021.
		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	0.7	In effect from Jan. 1, 2021.
		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	0.35	In effect from Jan. 1, 2021.
		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	0.35	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.35	
	Tin	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
		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 places outside tap water quality and volume protection area	5.0	
	Molybdenum	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	0.6	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.6	
	Sulfide		1.0	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	550	
			400	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	2.0	
	Benzene		0.05	

	Ethyl benzene	0.4		
	Methylene chloride	0.2		
	Chloroform	0.6		
	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		In effect from Jan. 1, 2021.
	Trichloroethylene	0.3		
	Acrylonitrile	0.2		
	1,2-butadiene	0.1		
	Biochemical oxygen demand	Maximum	30	
		7-day average	25	
Constructed, under construction or tendering procedures completed before Jul. 31, 2009 with an approved discharge volume less than 10,000 m³ per day	Chemical oxygen demand	Maximum	100	
		7-day average	80	
	Suspended solids	Maximum	30	
		7-day average	25	
Tendering procedures not completed before Jul. 31, 2009; constructed, under construction or tendering procedures completed before Jul. 31, 2009 with an approved discharge volume at least 10,000 m³ per day	Chemical oxygen demand	Maximum	90	
		7-day average	70	
	Suspended solids	Maximum	25	
		7-day average	20	

Table 11 Water quality items and limits of discharge from dedicated sewage systems in other industrial parks

Scope	Item			Limit	Remarks
All	Water temperature	Discharge into non-marine surface water bodies		Lower than 38°C (for May to September)	
				Lower than 35°C (for October to next April)	
		Direct discharge to the ocean		Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
	Hydrogen ion concentration index			6.0 - 9.0	
	Villiaumite			15	
	Nitrite nitrogen			50	
	Ammonia nitrogen	Discharged into tap water quality and volume protection area		10	
		Discharged into places outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	100	In effect from Jan. 1, 2021.
				75	In effect from Jan. 1, 2024.
				30	In effect from Jan. 1, 2027.
			Tendering procedure not completed before Dec. 25, 2017	20	
	Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area		4.0	
	Phenols			1.0	
	Anion surfactant			10	
	Cyanide			1.0	
	Grease (Hexane extracts)			10	
	Dissolved iron			10	
	Dissolved manganese			10	
	Cadmium	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		0.03	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017		0.02	In effect from Jan. 1, 2021.
		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		0.5	In effect from Jan. 1, 2021.
		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	1.5	In effect from Jan. 1, 2021.
		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	0.35	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.35	
	Copper	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	1.5	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	1.5	
	Zinc	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	5.0	
		Constructed, under construction or tendering procedures completed before Dec. 25, 2017	3.5	In effect from Jan. 1, 2021.
		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	0.7	In effect from Jan. 1, 2021.
		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	0.35	In effect from Jan. 1, 2021.
		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	0.35	In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	0.35	

	Tin	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	2.0		In effect from Jan. 1, 2021.
		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 places outside tap water quality and volume protection area	5.0		
	Sulfide		1.0		
	Formaldehyde		3.0		
	Polychlorinated biphenyl		0.00005		
	Total organic phosphate agent		0.5		
	Total carbamate		0.5		
	Herbicide		1.0		
	Endosulfan		0.03		
	Endrin		0.0002		
	Lindane		0.004		
	Heptachlor and derivatives		0.001		
	DDT and derivatives		0.001		
	Aldrin and dieldrin		0.003		
	Pentrachlorophenol and its salts		0.005		
	Toxaphene		0.005		
	Pentachloronitrobenzene		0.00005		
	Folpet		0.00025		
	Captafol		0.00025		
	Captan		0.00025		
	True color	Constructed, under construction or endering procedures completed before Dec. 25, 2017	550		
			400		In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	300		
	Free available residual chlorine	Constructed, under construction or endering procedures completed before Dec. 25, 2017	2.0		In effect from Jan. 1, 2021.
		Tendering procedures not completed before Dec. 25, 2017	2.0		
	Indium		0.1		
	Gallium		0.1		
	Molybdenum		0.6		
Constructed, under construction or tendering procedures completed before Jul. 31,	Biochemical oxygen demand		Maximum	30	
			7-day average	25	
	Chemical oxygen demand		Maximum	100	
			7-day average	80	
	Suspended solids		Maximum	30	

2009 with an approved discharge volume less than 10,000 m³ per day		7-day average	25	
Tendering procedures not completed before Jul. 31, 2009; constructed, under construction or tendering procedures completed before Jul. 31, 2009 with an approved discharge volume at least 10,000 m³ per day	Biochemical oxygen demand	Maximum	25	
		7-day average	20	
	Chemical oxygen demand	Maximum	80	
		7-day average	65	
	Suspended solids	Maximum	25	
		7-day average	20	

Table 12 Water quality items and limits of discharge from dedicated sewage systems in communities

Scope	Item		Limit	Remarks
All	Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (for May to September)	
			Lower than 35°C (for October to next April)	
		Direct discharge to the ocean	Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
	Hydrogen ion concentration index		6.0—9.0	
	Nitrite nitrogen		50	
	Ammonia nitrogen	Discharged into tap water quality and volume protection area	10	
	Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area	4.0	
	Anion surfactant		10	
	Grease (Hexane extracts)		10	
	Dissolved iron		10	
	Dissolved manganese		10	
	Cadmium		0.03	
	Lead		1.0	
	Total chromium		2.0	
	Hexavalent chromium		0.5	
	Methyl mercury		0.0000002	
	Total mercury		0.005	
	Copper		3.0	
	Zinc		5.0	
	Silver		0.5	
	Nickel		1.0	
	Selenium		0.5	
	Arsenic		0.5	
	Boron	Discharged into tap water quality and volume protection area	1.0	
		Discharged into places outside tap water quality and volume protection area	5.0	
Discharge volume > 250 m³/day	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
	Coliform group		200,000	
Discharge volume ≤ 250 m³/day	Biochemical oxygen demand		50	
	Chemical oxygen demand		150	
	Suspended solids		50	
	Coliform group		300,000	

Table 13 Water quality items and limits of discharge from dedicated sewage systems in other specified areas or sites

Item		Limit	Remarks
Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (for May to September)	
		Lower than 35°C (for October to next April)	
	Direct discharge to the ocean	Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
Hydrogen ion concentration index		6.0—9.0	
Villiaumite		15	
Nitrite nitrogen		50	
Ammonia nitrogen	Discharged into tap water quality and volume protection area	10	
Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area	4.0	
Phenols		1.0	
Anion surfactant		10	
Cyanide		1.0	
Grease (Hexane extracts)		10	
Dissolved iron		10	
Dissolved manganese		10	
Cadmium		0.03	
Lead		1.0	
Total chromium		2.0	
Hexavalent chromium		0.5	
Copper		3.0	
Zinc		5.0	
Nickel		1.0	
Selenium		0.5	
Arsenic		0.5	
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 places outside tap water quality and volume protection area	5.0	
Sulfide		1.0	
Formaldehyde		3.0	
Polychlorinated biphenyl		0.00005	
Total organic phosphate agent		0.5	
Total carbamate		0.5	
Herbicide		1.0	
Endosulfan		0.03	
Endrin		0.0002	

Lindane	0.004	
Heptachlor and derivatives	0.001	
DDT and derivatives	0.001	
Aldrin and dieldrin	0.003	
Pentrachlorophenol and its salts	0.005	
Toxaphene	0.005	
Pentachloronitrobenzene	0.00005	
Folpet	0.00025	
Captafol	0.00025	
Captan	0.00025	
Biochemical oxygen demand	30	
Chemical oxygen demand	100	
Suspended solids	30	

Table 14 Water quality items and limits of discharge from public sewage systems

Scope	Item				Limit	Remarks
All	Water temperature	Discharge into non-marine surface water bodies			Lower than 38°C (for May to September)	
					Lower than 35°C (for October to next April)	
		Direct discharge to the ocean			Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
	Hydrogen ion concentration index				6.0—9.0	
	Nitrite nitrogen				50	Not applicable to total nitrogen control.
	Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area			4.0	Not applicable to total phosphorus control.
	Total phosphorus	Discharged into tap water quality and volume protection area	Tendering procedures not completed before Nov. 23, 2001		2.0	
	Anion surfactant				10	
	Grease (Hexane extracts)				10	
Discharge volume > 250 m³/day	Biochemical oxygen demand				30	
	Chemical oxygen demand				100	
	Suspended solids				30	
	Coliform group				200,000	
	Ammonia nitrogen	Discharged into tap water quality and volume protection area			10	
					6	In effect from Jan. 1, 2024.
		Discharged into places outside tap water quality and volume protection area	Maximum amount of industrial wastewater, intercepted discharge or manure approved for reception and treatment ≥ 20% of maximum amount of total wastewater (sewage)	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	75	In effect from Jan. 1, 2021.
					30	In effect from Jan. 1, 2024.
				Tendering procedure not completed before Dec. 25, 2017	20	
			Maximum design volume of industrial wastewater,	Constructed, under construction or tendering	10	In effect from Jan. 1, 2021.

			intercepted discharge or manure approved for reception and treatment ≥ 20% of maximum volume of total wastewater (sewage); or no reception and treatment of industrial wastewater, intercepted discharge or manure	procedures completed before Dec. 25, 2017		
				Tendering procedure not completed before Dec. 25, 2017	10	
					6	In effect from Jan. 1, 2024.
	Total nitrogen	Discharged into tap water quality and volume protection area	Tendering procedures not completed before Nov. 23, 2001		15	
		Discharged into places outside tap water quality and volume protection area	Maximum design volume of industrial wastewater, intercepted discharge or manure approved for reception and treatment ≥ 20% of maximum volume of total wastewater (sewage); or no reception and treatment of industrial wastewater, intercepted discharge or manure	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	50	In effect from Jan. 1, 2021.
					35	In effect from Jan. 1, 2024.
				Tendering procedure not completed before Dec. 25, 2017	20	
Discharge volume ≤ 250 m³/day	Biochemical oxygen demand				50	
	Chemical oxygen demand				150	
	Suspended solids				50	
	Coliform group				300,000	
	Ammonia nitrogen	Discharged into tap water quality and volume protection area			10	
	Total nitrogen	Discharged into tap water quality	Tendering procedures not completed before Nov. 23, 2001		15	

		and volume protection area			

Table 15 Water quality items and limits of discharge from building sewage treatment facilities

Scope	Item		Limit	Remarks
All	Water temperature	Discharge into non-marine surface water bodies	Lower than 38°C (for May to September)	
			Lower than 35°C (for October to next April)	
		Direct discharge to the ocean	Water temperature at discharge point ≤ 42°C; temperature difference of surface water 500m from discharge point ≤ 4°C	
	Hydrogen ion concentration index		6.0—9.0	
	Nitrite nitrogen		50	
	Ammonia nitrogen	Discharged into tap water quality and volume protection area	10	
	Orthophosphate (calculated based on trivalent phosphate ion)	Discharged into tap water quality and volume protection area	4.0	
	Anion surfactant		10	
	Grease (Hexane extracts)		10	
	Dissolved iron		10	
	Dissolved manganese		10	
	Cadmium		0.03	
	Lead		1.0	
	Total chromium		2.0	
	Hexavalent chromium		0.5	
	Methyl mercury		0.0000002	
	Total mercury		0.005	
	Copper		3.0	
	Zinc		5.0	
	Silver		0.5	
	Nickel		1.0	
	Selenium		0.5	
	Arsenic		0.5	
	Boron	Discharged into tap water quality and volume protection area	1.0	
		Discharged into places outside tap water quality and volume protection area	5.0	

Application for construction license after Jan. 1, 2009	Discharge volume > 250 m³/day	Biochemical oxygen demand	30	
		Chemical oxygen demand	100	
		Suspended solids	30	
		Coliform group	200,000	
	Discharge volume ≤250 m³/day	Biochemical oxygen demand	50	
		Chemical oxygen demand	150	
		Suspended solids	50	
		Coliform group	300,000	Not applicable to discharge volume < 50 m³/day
Application for construction license before Dec. 31, 2008	Discharge volume > 250 m³/day	Biochemical oxygen demand	30	
		Chemical oxygen demand	100	
		Suspended solids	30	
		Coliform group	200,000	
	50 m³ < Discharge volume < 250 m³/day	Biochemical oxygen demand	50	
		Chemical oxygen demand	150	
		Suspended solids	50	
		Coliform group	300,000	
	Discharge volume < 50 m³/day	Biochemical oxygen demand	80	
		Chemical oxygen demand	250	
		Suspended solids	80	

Table 16

Level of total quantity control zone for wastewater (sewage) discharge	Scope	Item	Limit	Remarks
Level 1: The quality of the receiving water body in the zone does not conform to the irrigation water quality standards	Newly-established enterprises and sewage systems in industrial parks: Tendering procedures not completed before the total quantity control zone is announced by the special municipality or county (city) competent authority	Cadmium	< 0.005	1. In effect from the date when the special municipality or county (city) competent authority announces the total quantity control zone of a water body for farmlands that must be protected. 2. The value in this column is based on the limit of the quantifiable amount expressed with a "<" symbol.
		Total chromium	< 0.01	
		Hexavalent chromium	< 0.02	
		Copper	< 0.01	
		Zinc	< 0.01	
		Nickel	< 0.02	
	Existing enterprises: Constructed, under construction or tendering procedures completed before the total quantity control zone is announced by the special municipality or county (city) competent authority	Cadmium	0.01	In effect 2 years after the special municipality or county (city) competent authority announces the total quantity control zone of a water body for farmlands that must be protected.
		Total chromium	0.1	
		Hexavalent chromium	0.05	
		Copper	0.2	
		Zinc	2.0	
		Nickel	0.2	
	Existing sewage systems in industrial parks: Constructed, under construction or tendering procedures completed before the total quantity control zone is announced by the special municipality or county (city) competent authority	Cadmium	0.015	In effect 2 years after the special municipality or county (city) competent authority announces the total quantity control zone of a water body for farmlands that must be protected.
		Total chromium	1.0	
		Hexavalent chromium	0.25	
		Copper	1.5	
		Zinc	2.5	
		Nickel	0.5	
Level 2: The quality of the receiving water body in the zone conforms to the irrigation water quality standards	Newly-established enterprises: Tendering procedures not completed before the total quantity control zone is announced by the special municipality or county (city) competent authority	Cadmium	0.01	In effect from the date when the special municipality or county (city) competent authority announces the total quantity control zone of a water body for farmlands that must be protected.
		Total chromium	0.1	
		Hexavalent chromium	0.05	
		Copper	0.2	
		Zinc	2.0	
		Nickel	0.2	
	Newly-established sewage systems in industrial parks: Tendering procedures not completed before the total quantity control zone is announced by the special municipality or county (city) competent authority	Cadmium	0.015	In effect from the date when the special municipality or county (city) competent authority announces the total quantity control zone of a water body for farmlands that must be protected.
		Total chromium	1.0	
		Hexavalent chromium	0.25	
		Copper	1.5	
		Zinc	2.5	
		Nickel	0.5	
	Existing enterprises and sewage systems in industrial parks:	Cadmium	0.015	In effect 2 years after the special municipality or county (city) competent authority
		Total chromium	1.0	

	Constructed, under construction or tendering procedures completed before the total quantity control zone is announced by the special municipality or county (city) competent authority	Hexavalent chromium	0.25	announces the total quantity control zone of a water body for farmlands that must be protected.
		Copper	1.5	
		Zinc	2.5	
		Nickel	0.5	