

Table 8 Water quality items and limits of discharge from all industries (excluding 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 (from May to September)	
			Lower than 35°C (from October to April of the following year)	
		Direct discharge into the ocean	Water temperature at discharge point $\leq 42^{\circ}\text{C}$; temperature difference of surface water 500m from discharge point $\leq 4^{\circ}\text{C}$	
	Hydrogen ion concentration index		6.0–9.0	
	Villiaumite		15	
	Nitrate nitrogen		50	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	
	Anionic 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 sites 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	
	Pentachlorophenol 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	
		Steam supply industry with tendering procedures not completed before Apr. 29, 2019	5	
Pharmaceutical manufacturing industry	Biochemical oxygen demand		30	
	Chemical oxygen demand		100	
	Suspended solids		30	
	True color	Constructed, under	400	

		construction or tendering procedures completed before Dec. 25, 2017		
		Tendering procedures not completed before Dec. 25, 2017	300	
		Free available residual chlorine	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	400	
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine		2.0	
	Molybdenum		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	400	
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine		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	400	
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine		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	400
			Tendering procedures not completed before Dec. 25, 2017	300
		Free available residual chlorine		2.0
	Cheese and hank dyeing, knitted and	Biochemical oxygen demand	30	
		Chemical oxygen demand	140	
		Suspended solids	30	

	non-woven fabric dying	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		400	
			Tendering procedures not completed before Dec. 25, 2017		300	
		Free available residual chlorine			2.0	
	Finishing, paper printing, brushing, chipping, sanding and those not belonging to the prior two categories	Biochemical oxygen demand			30	
		Chemical oxygen demand			100	
		Suspended solids			30	
		True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		400	
			Tendering procedures not completed before Dec. 25, 2017		300	
		Free available residual chlorine			2.0	
	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		400	
			Tendering procedures not completed before Dec. 25, 2017		300	
Free available residual chlorine			2.0			
Ammonia nitrogen			Discharged into sites outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	60	
				Tendering procedures 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		400	
			Tendering procedures not completed before Dec. 25, 2017		300	
		Free available residual chlorine			2.0	
		Ammonia nitrogen	Discharged into sites outside tap water	Constructed, under construction or tendering	75	In effect from Jan. 1, 2027.
					45	In effect from Jan. 1, 2031.

			quality and volume protection area	procedures completed before Dec. 18, 2024		
				Tendering procedures not completed before Dec. 18, 2024	30	
			Manufacturers other than those “making finished leather from rawhide”, “and making finished leather from wet blue”	Biochemical oxygen demand		
	Chemical oxygen demand			100		
	Suspended solids			30		
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017		400		
		Tendering procedures not completed before Dec. 25, 2017		300		
	Free available residual chlorine			2.0		
	Paper pulp industry	Chemical oxygen demand			150	
		Suspended solids			50	
True color		Constructed, under construction or tendering procedures completed before Dec. 25, 2017		400		
		Tendering procedures not completed before Dec. 25, 2017		300		
Free available residual chlorine			2.0			
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		400	
			Tendering procedures not completed before Dec. 25, 2017		300	
	Free available residual chlorine			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		400	
			Tendering procedures not completed before Dec. 25, 2017		300	
		Free available residual chlorine			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		400	

			procedures completed before Dec. 25, 2017		
			Tendering procedures not completed before Dec. 25, 2017	300	
		Free available residual chlorine		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		400	
		Tendering procedures not completed before Dec. 25, 2017		300	
	Free available residual chlorine			2.0	
	Molybdenum			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 sites outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	60	
			Tendering procedures 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	400	
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine		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 (chemical) and research laboratories	Biochemical oxygen demand		30	
	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	
	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	Biochemical oxygen demand		50	
	Chemical oxygen demand		150	
	Suspended solids		50	
	True color	Constructed, under construction or tendering procedures completed before Dec. 25, 2017	400	
		Tendering procedures not completed before Dec. 25, 2017	300	
	Free available residual chlorine		2.0	

industry)					
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		400	
		Tendering procedures not completed before Dec. 25, 2017		300	
	Free available residual chlorine			2.0	
	Ammonia nitrogen	Discharged into sites outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 18, 2024	75	In effect from Jan. 1, 2027.
				45	In effect from Jan. 1, 2031.
			Tendering procedures not completed before Dec. 18, 2024	30	
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		400	
		Tendering procedures not completed before Dec. 25, 2017		300	
	Free available residual chlorine			2.0	
	Coliform group			200,000	
	Ammonia nitrogen	Discharged into sites outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 18, 2024	75	In effect from Jan. 1, 2027.
				45	In effect from Jan. 1, 2031.
Tendering procedures not completed before Dec. 18, 2024			30		
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		
	Free available residual chlorine	Constructed, under construction or tendering procedures completed before Dec. 18, 2024	2.0	1. In effect from Jan. 1, 2027. 2. In response to epidemic prevention or special sanitation and disinfection needs, this standard may not apply during the establishment period of the Central Epidemic Command Center or when other epidemic prevention needs are approved by the competent authority.	
		Tendering procedures not completed before Dec. 18, 2024	2.0	In response to epidemic prevention or special sanitation and disinfection needs, this standard may not apply during the establishment period of the Central Epidemic Command Center or when other epidemic prevention needs are approved by the competent authority.	
	Ammonia nitrogen	Discharged into sites outside tap water quality and volume protection area	Constructed, under construction or tendering procedures completed before Dec. 18, 2024	75	In effect from Jan. 1, 2027.
				45	In effect from Jan. 1, 2029.
			Tendering procedures not completed before Dec. 18, 2024	30	
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 meets 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		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	15	
		Total phosphorus		2.0	
	Hotels, B&B	Biochemical oxygen demand		50	
		Chemical oxygen demand		150	
		Suspended solids		50	
		Coliform group		300,000	
Coal storage sites, construction sites, earth and gravel storage (disposal) sites		Biochemical oxygen demand		30	Control of construction sites 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	400	
			Tendering procedures not completed before Dec. 25, 2017	300	
		Free available residual chlorine		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	
		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	15	

		Total phosphorus	water quality and volume protection area	2.0	
Livestock excrement and biomass energy recycling treatment center	Biochemical oxygen demand			80	
	Chemical oxygen demand			600	
	Suspended solids			150	
Steam supply industry	Chemical oxygen demand			100	
	Suspended 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		400	
		Tendering procedures not completed before Dec. 25, 2017		300	
		Free available residual chlorine		2.0	