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 (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 ≤ 42℃; temperature difference of surface water 500m from discharge point ≤ 4℃	
Hydrogen ion concentration index			6.0—9.0	
Nitrate nitrogen			50	
Ammonia nitrogen	Discharged into tap water quality and volume protection area		10	
	Discharged into sites outside tap water quality and volume protection area	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	
Anionic 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		400	

	Tendering procedures not completed before Dec. 25, 2017	300	
Free available residual chlorine		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	
1,2-butadiene		0.1	