

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 (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	
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 are 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.
Ammonia nitrogen		20	
Anionic 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	