

Appendix 3: Water quality monitoring for industrial discharges. Red values indicate where effluent exceeds the general standards and blue values where effluent exceeds the target value for coastal waters.

Parameter	General Standards	Median and 95% and 5% percentiles	Industrial discharge points				Target range for coastal zone
			Osterlig Visery	PPC	Fish Water Flats WTW	Albany Coast Water board	
pH	5.5-9.5	Median			7.3		7.3-8.2
		95%			7.6		
		5%			6.9		
Conductivity (mS/m)	150mS/m	Median			270.5		
		95%			389.6		
		5%			175.9		
Ammonia (N)	3mg/l	Median			0.8		0.02mg/l
		95%			31.4		
		5%			0.2		
COD	75 mg/l	Median			191.5		
		95%			1239.9		
		5%			46.1		
Permanganate		Median			18.0		
		95%			97.1		
		5%			8.0		
Suspended Solids	25 mg/l	Median			70.0		Not to exceed ambient concentration by more than 10%
		95%			1090.5		
		5%			8.2		
Nitrate (mg/l)	15 mg/l	Median			1.3		No target value selected, concentrations not to induce excessive algal growth or reduce DO levels
		95%			4.5		
		5%			0.1		
Faecal Coliforms/100ml	1 000 per 100ml	Median			86000		
		95%			756000		
		5%			500.0		
E. coli/100ml		Median			500.0		
		95%			345700		
		5%			100.6		
Phosphorous	10 mg/l	Median					No target value selected, concentrations not to induce excessive
		95%					

Data points which were recorded as < a specific value were halved as per standard procedures.
Standard guideline values taken from Government Gazette No. 20526. General authorizations in terms of section 39 of the National Water Act, 1998.
Target coastal values taken from Water quality guidelines for coastal and marine waters. Volume 1: Natural Environment.