

Concentration Limit Table

Wollongong Wastewater Treatment Plant

EPL 218

Sydney Water's treatment plants operate under environmental protection licences issued by the NSW Environmental Protection Authority (EPA). For each monitoring/discharge point the concentration of a pollutant must not exceed the concentration limits specified for that pollutant in the table.

pollutant	unit of measure	3DGM limit	50 percentile limit	90 percentile limit	average limit
aluminium	µg/L	-	-	430	120
biochemical oxygen demand	mg/L	-	20	-	-
copper	µg/L	-	-	150	86
diazinon	µg/L	-	-	1.1	0.6
hydrogen sulphide (un-ionised)	µg/L	-	-	2000	250
total suspended solids	mg/L	50	30	40	-

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

A licence condition with a 100 Percentile Limit means that 100% of samples (or all samples) taken must not exceed the limit for that pollutant. This can be extrapolated for other percentiles, for example an 80 Percentile Limit means that 80% of samples taken must not exceed the limit for that pollutant within the annual licence period.