

**GOSFORD CITY COUNCIL
ANNUAL DRINKING WATER QUALITY REPORT 2008/2009**

Characteristics	Units of measure	Australian Drinking Water Guidelines performance standard	Guideline Basis	Average value	
Microbiological	<i>E.coli</i>	Orgs/100ML	At least 98% of test results contain no E.Coli	Health	<1
Physical	<i>True Colour</i>	H.U	Average result < 15 HU	Aesthetic	1.25
	<i>Turbidity</i>	N.T.U	Average result < 5 NTU	Aesthetic	0.26
	<i>Total Dissolved Solids</i>	mg/L	< 500	Aesthetic	155
	<i>Total hardness, as CaCO3</i>	mg/L	< 200	Aesthetic	39.4
Chemical	<i>Total Aluminium</i>	mg/L	< 0.2	Aesthetic	0.07
	<i>Antimony</i>	mg/L	<0.003	Health	<0.001
	<i>Arsenic</i>	mg/L	<0.007	Health	<0.001
	<i>Barium</i>	mg/L	<0.7	Health	0.05
	<i>Boron</i>	mg/L	<0.3	Health	<0.1
	<i>Cadmium</i>	mg/L	<0.002	Health	<0.001
	<i>Calcium</i>	mg/L	<9999	Health	9.27
	<i>Chloride</i>	mg/L	< 250	Aesthetic	45.7
	<i>Chlorine</i>	mg/L	At least 95% of results <5mg/L (free chlorine)	Health	0.10
	<i>Chromium</i>	mg/L	<0.05	Health	<0.01
	<i>Copper</i>	mg/L	< 2 (Health) < 1 (Aesthetic)	Health/Aesthetic	0.07
	<i>Fluoride</i>	mg/L	At least 95% of results between 0.9 and 1.5mg/L	Health	0.99
	<i>Iodine</i>	mg/L	<0.1		0.02
	<i>Iron</i>	mg/L	Average result <0.3	Aesthetic	0.03
	<i>Lead</i>	mg/L	<0.01	Health	<0.005
	<i>Magnesium</i>	mg/L	<9999	Aesthetic	3.94
	<i>Manganese</i>	mg/L	<0.5 (Health) <0.1 (Aesthetic)	Health/Aesthetic	0.01
	<i>Mercury</i>	mg/L	<0.001	Health	<0.0001
	<i>Molybdenum</i>	mg/L	<0.05	Health	<0.01
	<i>Nickel</i>	mg/L	<0.02	Health	<0.01
	<i>Nitrate</i>	mg/L	< 50	Health	1.8
	<i>Nitrite</i>	mg/L	< 3	Health	<0.1
	<i>pH</i>	Units	6.5-8.5	Aesthetic	8.1
	<i>Selenium</i>	mg/L	<0.01	Health	<0.005
	<i>Silver</i>	mg/L	<0.1	Aesthetic	<0.01
	<i>Sodium</i>	mg/L	< 180	Aesthetic	41.75
	<i>Sulphate</i>	mg/L	< 500 (Health) < 250 (Aesthetic)	Health/Aesthetic	32.9
	<i>Zinc</i>	mg/L	<3	Aesthetic	0.02

Orgs = Organisms

H.U = Hazen Units

mg/L = milligrams per litre (or parts per million)

N.T.U = Nephelometric Turbidity Units

The Australian Drinking Water Guidelines 1996 recognise that occasionally throughout the year there may be health or aesthetic related test results above the Guidelines values, and that these results are not necessarily an immediate threat to health. As such, the Guidelines do not require a 100 per cent result in all cases. Disturbances and operational changes can result in occasional localised elevated levels of aesthetic water quality characteristics such as pH. Each test result above the guideline value for E. Coli is investigated and actions taken where necessary to minimise the risk of a recurrence. On rare occasions, dosing equipment problems can result in lowered levels of fluoride.