

SOURCE WATER QUALITY – LAKE AWOONGA – June 2019

	Unit of measure	Average	Minimum	Maximum
pH	-	7.71	7.57	7.82
Colour	HU	5	2	7
Turbidity	NTU	1.52	1.03	1.95
Alkalinity	mg/L as CaCO ₃	75	72	79
Aluminium	mg/L	0.01	0	0.01
Iron	mg/L	0	0	0
Manganese	mg/L	0.007	0.000	0.017
Conductivity	mS/cm	277	277	278
Hardness	mg/L as CaCO ₃	73	70	75
Dissolved Oxygen	% saturation	76.4	68.5	81
<i>E.coli</i>	MPN/100ml	0	0	0
Total Cyanobacteria Count	Cells/mL	4733	3270	7050

DRINKING WATER QUALITY - GLADSTONE WATER TREATMENT PLANT – June 2019

	<i>Drinking Water Guidelines</i>		Results			
	<i>Aesthetic</i>	<i>Health</i>	Unit of measure	Average	Minimum	Maximum
pH	6.5-8.5	-	-	7.15	7.01	7.24
Colour	15	-	HU	1	1	1
Turbidity	5	-	NTU	0.08	0.07	0.10
Free Chlorine	-	5	mg/L	2.18	1.83	2.50
Total Chlorine	-	5	mg/L	2.45	2.03	2.73
Alkalinity	-	-	mg/L	59	53	63
Aluminium	0.2	-	mg/L	0.025	0.006	0.050
Iron	0.3	-	mg/L	0.025	0.01	0.05
Manganese	0.1	0.5	mg/L	0	0	0
Conductivity	-	-	mS/cm	315	312	319
Hardness	200	-	mg/L	71	69	73
Dissolved Oxygen	>85	-	% saturation	90.7	89.7	91.4
<i>E. coli</i>		0	MPN/100ml	0	0	0
Temperature	-	-	C	20	19.5	2.08
Total Cyanobacteria Count	-	-	cells/100ml	15	0	20
Total Trihalomethanes	-	250	µg/L	5	5	5

DRINKING WATER QUALITY - YARWUN WATER TREATMENT PLANT – June 2019

Parameter	Drinking Water Guidelines		Results			
	Aesthetic	Health	Unit of measure	Average	Minimum	Maximum
pH	6.5-8.5	-	-	7.12	7.01	7.26
Colour	15	-	HU	1	1	2
Turbidity	5	-	NTU	0.09	0.07	0.1
Free Chlorine	-	5	mg/L	2.49	2.08	2.96
Total Chlorine	-	5	mg/L	2.75	2.31	3.26
Alkalinity	-	-	mg/L as CaCO ₃	59	55	61
Aluminium	0.2	-	mg/L	0.037	0.024	0.054
Iron	0.3	-	mg/L	0.018	0.01	0.03
Manganese	0.1	0.5	mg/L	0.0002	0.000	0.0008
Conductivity	-	-	mS/cm	314	306	327
Hardness	200	-	mg/L as CaCO ₃	71	68	74
Dissolved Oxygen	>85	-	% saturation	87.9	85.2	89.5
E. coli	-	0	MPN/100ml	0	0	0
Temperature	-	-	C	20.2	19.7	20.5
Total Cyanobacteria Count	-	-	cells/100ml	15	0	30
Total Trihalomethanes	-	250	µg/L	18	18	18