



## Fact sheet

### Class C recycled water quality annual summary 2010-2011

Recycled Water Class C. July 2010 - June 2011

Component	Units	Number of tests	Treatment Plant Median Result			
			Beenleigh	Coombabah	Merrimac	Elanora
Alkalinity	mg CaCO <sub>3</sub> /L	52	170	110	110	160
Chloride	mg/L	52	200	NT	NT	NT
Chlorine Free	mg/L	52	NT	0.05	0.05	0.05
Chlorine Total	mg/L	52	NT	0.25	0.22	0.08
Conductivity	mS/cm	52	1.07	1.29	0.95	1.16
E. coli	CFU/100mL	52	330	215	45	40
Elements <sup>a</sup>	(Total)					
Aluminium	mg/L	2	0.061	0.079	0.056	0.023
Arsenic	mg/L	2	0.001	0.001	0.001	0.001
Beryllium	mg/L	2	< 0.01	< 0.01	< 0.01	< 0.01
Boron	mg/L	2	0.18	0.17	0.15	0.09
Cadmium	mg/L	2	< 0.001	< 0.001	< 0.001	< 0.001
Calcium	mg/L	2	27	32	33.5	55.5
Chromium	mg/L	2	< 0.001	< 0.001	< 0.001	< 0.001
Cobalt	mg/L	2	0.001	< 0.001	< 0.001	< 0.001
Copper	mg/L	2	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	2	0.6	0.5	0.5	0.6
Iron	mg/L	2	0.17	0.05	0.06	0.09
Lead	mg/L	2	< 0.005	< 0.005	< 0.005	< 0.005
Lithium	mg/L	2	< 0.04	< 0.04	< 0.04	< 0.04
Magnesium	mg/L	2	19	19	10.5	20
Manganese	mg/L	2	0.103	0.083	0.101	0.035

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Component	Units	Number of tests	Treatment Plant Median Result			
			Beenleigh	Coombabah	Merrimac	Elanora
Mercury	mg/L	2	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	2	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	mg/L	2	< 0.005	< 0.005	< 0.005	< 0.005
Potassium	mg/L	2	19	19	15.5	17.5
Selenium	mg/L	2	<0.001	<0.001	<0.001	<0.001
Silica	mg/L	2	17.5	14.5	15.5	16.5
Silver	mg/L	2	< 0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/L	2	160	205	135	150
Vanadium	mg/L	2	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	2	0.02	0.03	0.02	0.02
Nitrogen, Ammonia	mg/L	52	0.63	0.19	0.08	1.3
Nitrogen, Oxidised	mg/L	52	1.3	1.3	1.3	3.6
Nitrogen, Total	mg/L	52	3.2	2.7	2.3	5.9
Oxygen, Biochemical Demand	mg/L	51	< 3	< 3	< 3	< 3
Oxygen, Chemical Demand	mg/L	52	40	40	30	30
Oxygen, Dissolved	mg/L	52	6.4	7.6	8	5.4
pH		52	8	7.6	7.6	7.8
Phosphorus, Orthophosphate	mg/L	52	0.65	1.4	0.17	2.1
Phosphorus, Total	mg/L	52	0.87	1.5	0.27	2.2
Sodium Adsorption Ratio		2	5.8	7.1	5.2	4.4
Sulfate	mg/L	2	41	59	73	48
Suspended Solids	mg/L	52	4	2	2	2
Temperature	°C	52	25.4	25.4	25.2	25.1
Total Organic Carbon	mg/L	12	8.7	9.2	8	7.9
Turbidity	NTU	52	2.3	1.6	1.4	1.8

**Comments**

**mg/L** = Milligrams per Litre (or Parts per Million)

**NT** = Not tested      °C = Degrees Celsius

**CFU** = Colony Forming Unit

**Median** = the number in the middle of a set of numbers; that is half the numbers have a value greater than or equal to the median, and half have a value less than or equal to the median.

**mS/cm** = Millisiemens per Centimetre

**NTU** = Nephelometric Turbidity Units

**mg CaCO<sub>3</sub>/L** = mg/L of Calcium Carbonate

All results except temperature, free and total chlorine, dissolved oxygen, E.coli and elements, are medians of 24hr composite samples collected weekly between 01/07/10 - 30/06/11. All microbiological results are quoted from final lagoon effluent.

**a** Mean metal results determined from samples collected on 09/11/2010 and 10/05/2011 for Coombabah, Elanora, Merrimac and Beenleigh.