

# Western Treatment Plant Recycled Water Quality for September 2012 – Post disinfection

Metals analysis in mg/L	LTV limit *	STV limit	Median
Aluminium	5	20	0.01
Antimony			0.0015
Arsenic	0.1	2	0.002
Barium			0.004
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.17
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	< 0.001
Cobalt	0.05	0.1	< 0.001
Copper	0.2	5	0.0045
Iron	0.2	10	0.04
Lead	2	5	< 0.001
Lithium #	2.5	2.5	< 0.02
Manganese	0.2	10	0.015
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.0015
Nickel	0.2	2	0.009
Selenium	0.02	0.05	< 0.001
Silver			< 0.001
thorium			< 0.002
Tin			< 0.001
vanadium	0.1	0.5	< 0.001
Zinc	2	5	0

Physical chemistry	LTV limit *	STV limit *	Median
pH			7.6
BOD5 mg/L			< 2
Suspended solids mg/L			2
E.coli post disinfection orgs/100mL			0
Total Nitrogen mg-N/L	5	25-125	0.025
as Nitrite mg-N/L			0.015
as Nitrate mg-N/L			22
Total Phosphorous mg-P/L	0.05	0.8-12	8

Salinity indicators	Median
sodium mg/L	260
potassium mg/L	26
calcium mg/L	36
magnesium mg/L	28
SAR	7.7
chloride mg-Cl/L	400
TDS mg/L	1000
TDS (inorganic) mg/L	860
TDS (organic) mg/L	<
Electrical Conductivity	1700

Aesthetic indicator	Median
colour Pt/co units	7

\* ARMCANZ / ANZECC Long Term trigger Value (up to 100 years)  
 \* ARMCANZ / ANZECC Short Term trigger Value (up to 20 years)  
 # Lithium STV & LTV for citrus crops is 0.075 mg/l