

Western Treatment Plant Recycled Water Quality for June 2011 – Post disinfection

Metals analysis in mg/L	LTV limit *	STV limit *	Median
Aluminium	5	20	< 0.01
Antimony			0.001
Arsenic	0.1	2	0.002
Barium			0.005
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.16
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	< 0.001
Cobalt	0.05	0.1	< 0.001
Copper	0.2	5	0.006
Iron	0.2	10	0.02
Lead	2	5	< 0.001
Lithium #	2.5	2.5	< 0.02
Manganese	0.2	10	0.009
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.002
Nickel	0.2	2	0.007
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	0.031

Physical chemistry	LTV limit *	STV limit *	Median
pH			7.4
BOD5 mg/L			< 2
Suspended solids mg/L			< 2
E.coli post disinfection orgs/100mL			0
Total Nitrogen mg-N/L	5	25-125	17
as Nitrite mg-N/L			< 0.01
as Nitrate mg-N/L			16
Total Phosphorous mg-P/L	0.05	0.8-12	8.2

Salinity indicators	Median
sodium mg/L	260
potassium mg/L	25
calcium mg/L	40
magnesium mg/L	27
SAR	7.8
chloride mg-Cl/L	420
TDS mg/L	990
TDS (inorganic) mg/L	890
TDS (organic) mg/L	110
Electrical Conductivity	1800

Aesthetic indicator	Median
colour Pt/co units	12

* 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