

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

Metals analysis in mg/L	LTV limit *	STV limit *	Median
Aluminium	5	20	< 0.01
Antimony			0.002
Arsenic	0.1	2	0.002
Barium			0.004
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.2
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	0.02
Lead	2	5	< 0.001
Lithium #	2.5	2.5	< 0.02
Manganese	0.2	10	0.014
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.004
Nickel	0.2	2	0.011
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	0.017

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			1.5
Total Nitrogen mg-N/L	5	25-125	20
as Nitrite mg-N/L			< 0.01
as Nitrate mg-N/L			19
Total Phosphorous mg-P/L	0.05	0.8-12	9.2

Salinity indicators	Median
sodium mg/L	300
potassium mg/L	30
calcium mg/L	42
magnesium mg/L	30
SAR	8.6
chloride mg-Cl/L	440
TDS mg/L	1100
TDS (inorganic) mg/L	970
TDS (organic) mg/L	160
Electrical Conductivity	2000

Aesthetic indicator	Median
colour Pt/co units	9

* 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