

Western Treatment Plant Recycled Water Quality for January 2012 – Post disinfection

Metals analysis in mg/L	LTV limit *	STV limit *	Median
Aluminium	5	20	0.15
Antimony			0.0015
Arsenic	0.1	2	0.0025
Barium			0.0055
Beryllium	0.1	0.5	<0.001
Boron	0.5		0.21
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	0.08
Lead	2	5	<0.001
Lithium #	2.5	2.5	<0.2
Manganese	0.2	10	0.022
Mercury	0.002	0.002	<0.0001
Molybdenum	0.01	0.05	0.005
Nickel	0.2	2	0.0095
Selenium	0.02	0.05	<0.001
Silver			<0.001
thorium			<0.002
Tin			<0.001
vanadium	0.1	0.5	0.003
Zinc	2	5	0.015

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			0.5
Total Nitrogen mg-N/L	5	25-125	12
as Nitrite mg-N/L			0.01
as Nitrate mg-N/L			11
Total Phosphorous mg-P/L	0.05	0.8-12	8.5

Salinity indicators	Median
sodium mg/L	290
potassium mg/L	32
calcium mg/L	37
magnesium mg/L	29
SAR	8.5
chloride mg-Cl/L	410
TDS mg/L	1000
TDS (inorganic) mg/L	880
TDS (organic) mg/L	120
Electrical Conductivity	1800

Aesthetic indicator	Median
colour Pt/co units	6

* ARMICANZ / ANZECC Long Term trigger Value (up to 100 years)

* ARMICANZ / ANZECC Short Term trigger Value (up to 20 years)

Lithium STV & LTV for citrus crops is 0.075 mg/l