

Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median	Physical Chemistry	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.02	pH			7.8
Antimony			0.0005	BOD5 (mg/L)			1
Arsenic	0.1	2	0.001	Suspended Solids (mg/L)			4.5
Barium			0.005	<i>E.coli</i> post disinfection (orgs/100mL)			0
Beryllium	0.1	0.5	0.0005	Somatic Coliphage			0.5
Boron	0.5		0.14	Total Nitrogen (mg-N/L)	5	25-125	13
Cadmium	0.01	0.05	0.0001	Nitrite (mg-N/L)			0.02
Chromium	0.1	1	0.0005	Nitrate (mg-N/L)			13
Cobalt	0.05	0.1	0.0005	Total Phosphorous (mg-P/L)	0.05	0.8-12	6.6
Copper	0.2	5	0.003				
Iron	0.2	10	0.04	Salinity Indicators			Median
Lead	2	5	0.0005	Sodium (mg/L)			220
Lithium	2.5 [#]	2.5 [#]	0.01	Potassium (mg/L)			26
Manganese	0.2	10	0.02	Calcium (mg/L)			27
Mercury	0.002	0.002	0.00005	Magnesium (mg/L)			24
Molybdenum	0.01	0.05	0.002	SAR			7.4
Nickel	0.2	2	0.007	Chloride (mg-Cl/L)			340
Selenium	0.02	0.05	0.0005	TDS (mg/L)			810
Silver			0.0005	TDS Inorganic (mg/L)			715
Thorium			0.001	TDS Organic (mg/L)			95
Tin			0.0005	Electrical Conductivity			1600
Vanadium	0.1	0.5	0.0005				
Zinc	2	5	0.012	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							