Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.04
Antimony			0.001
Arsenic	0.1	2	0.003
Barium			0.006
Beryllium	0.1	0.5	0.0005
Boron	0.5		0.19
Cadmium	0.01	0.05	0.0001
Chromium	0.1	1	0.001
Cobalt	0.05	0.1	0.001
Copper	0.2	5	0.008
Iron	0.2	10	0.06
Lead	2	5	0.0005
Lithium	2.5#	2.5#	0.1
Manganese	0.2	10	0.037
Mercury	0.002	0.002	0.00005
Molybdenum	0.01	0.05	0.004
Nickel	0.2	2	0.011
Selenium	0.02	0.05	0.0005
Silver			0.0005
Thorium			0.001
Tin			0.0005
Vanadium	0.1	0.5	0.002
Zinc	2	5	0.015

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.6
BOD5 (mg/L)			1
Suspended Solids (mg/L)			1
E.coli post disinfection (orgs/100mL)			0
Somatic Coliphage			0.5
Total Nitrogen (mg-N/L)	5	25-125	17
Nitrite (mg-N/L)			0.05
Nitrate (mg-N/L)			16
Total Phosphorous (mg-P/L)	0.05	0.8-12	8.6

Salinity Indicators	Median
Sodium (mg/L)	300
Potassium (mg/L)	30
Calcium (mg/L)	30
Magnesium (mg/L)	26
SAR	9.8
Chloride (mg-Cl/L)	440
TDS (mg/L)	1100
TDS Inorganic (mg/L)	895
TDS Organic (mg/L)	205
Electrical Conductivity	1900

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