

SRW Summary

Western Treatment Plant Recycled Water Quality

Jan-22

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.02
Antimony			< 0.001
Arsenic	0.1	2	0.001
Barium			0.012
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.18
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	< 0.001
Cobalt	0.05	0.1	< 0.001
Copper	0.2	5	0.004
Iron	0.2	10	< 0.1
Lead	2	5	< 0.001
Lithium	2.5 [#]	2.5 [#]	0.01
Manganese	0.2	10	0.066
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.003
Nickel	0.2	2	#N/A
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	0.014

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			8.1
BOD5 (mg/L)			< 2
Suspended Solids (mg/L)			< 2
<i>E.coli</i> post disinfection (orgs/100mL)			< 1
Somatic Coliphage			< 1
Total Nitrogen (mg-N/L)	5	25-125	3.9
Nitrite (mg-N/L)			0.02
Nitrate (mg-N/L)			2.3
Total Phosphorous (mg-P/L)	0.05	0.8-12	3.5

Salinity Indicators	Median
Sodium (mg/L)	270
Potassium (mg/L)	29
Calcium (mg/L)	31
Magnesium (mg/L)	30
SAR	8.4
Chloride (mg-Cl/L)	470
TDS (mg/L)	1100
TDS Inorganic (mg/L)	960
TDS Organic (mg/L)	140
Electrical Conductivity	1900

Aesthetic Indicator	Median
Colour (Pt/co units)	8

* 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