

Summary

Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.12
Antimony			< 0.001
Arsenic	0.1	2	0.001
Barium			0.018
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.21
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	0.002
Cobalt	0.05	0.1	< 0.001
Copper	0.2	5	0.004
Iron	0.2	10	0.18
Lead	2	5	< 0.001
Lithium	2.5 [#]	2.5 [#]	0.01
Manganese	0.2	10	0.037
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.002
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	0.033

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.9
BOD5 (mg/L)			< 2
Suspended Solids (mg/L)			5.5
<i>E.coli</i> post disinfection (orgs/100mL)			< 1
Somatic Coliphage			< 1
Total Nitrogen (mg-N/L)	5	25-125	9.8
Nitrite (mg-N/L)			< 0.01
Nitrate (mg-N/L)			4.2
Total Phosphorous (mg-P/L)	0.05	0.8-12	2.2

Salinity Indicators	Median
Sodium (mg/L)	250
Potassium (mg/L)	26
Calcium (mg/L)	27
Magnesium (mg/L)	25
SAR	8.2
Chloride (mg-Cl/L)	390
TDS (mg/L)	880
TDS Inorganic (mg/L)	750
TDS Organic (mg/L)	130
Electrical Conductivity	1500

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