

SRW Summary

Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	#N/A
Antimony			#N/A
Arsenic	0.1	2	#N/A
Barium			#N/A
Beryllium	0.1	0.5	#N/A
Boron	0.5		#N/A
Cadmium	0.01	0.05	#N/A
Chromium	0.1	1	#N/A
Cobalt	0.05	0.1	#N/A
Copper	0.2	5	#N/A
Iron	0.2	10	< 0.1
Lead	2	5	#N/A
Lithium	2.5 [#]	2.5 [#]	#N/A
Manganese	0.2	10	#N/A
Mercury	0.002	0.002	#N/A
Molybdenum	0.01	0.05	#N/A
Nickel	0.2	2	#N/A
Selenium	0.02	0.05	#N/A
Silver			#N/A
Thorium			#N/A
Tin			#N/A
Vanadium	0.1	0.5	#N/A
Zinc	2	5	#N/A

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.9
BOD5 (mg/L)			< 2
Suspended Solids (mg/L)			< 2
<i>E.coli</i> post disinfection (orgs/100mL)			#N/A
Somatic Coliphage			< 1
Total Nitrogen (mg-N/L)	5	25-125	9.6
Nitrite (mg-N/L)			< 0.01
Nitrate (mg-N/L)			9.5
Total Phosphorous (mg-P/L)	0.05	0.8-12	2.9

Salinity Indicators	Median
Sodium (mg/L)	#N/A
Potassium (mg/L)	#N/A
Calcium (mg/L)	#N/A
Magnesium (mg/L)	#N/A
SAR	#N/A
Chloride (mg-Cl/L)	#N/A
TDS (mg/L)	980
TDS Inorganic (mg/L)	780
TDS Organic (mg/L)	200
Electrical Conductivity	1700

Aesthetic Indicator	Median
Colour (Pt/co units)	10

* 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