

SRW Summary

Jan-19

Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.03
Antimony			0.0005
Arsenic	0.1	2	0.002
Barium			0.005
Beryllium	0.1	0.5	0.0005
Boron	0.5		0.17
Cadmium	0.01	0.05	0.0001
Chromium	0.1	1	0.0005
Cobalt	0.05	0.1	0.001
Copper	0.2	5	0.003
Iron	0.2	10	0.04
Lead	2	5	0.0005
Lithium	2.5 [#]	2.5 [#]	0.01
Manganese	0.2	10	0.07
Mercury	0.002	0.002	0.00005
Molybdenum	0.01	0.05	0.002
Nickel	0.2	2	#N/A
Selenium	0.02	0.05	0.0005
Silver			0.0005
Thorium			0.001
Tin			0.0005
Vanadium	0.1	0.5	0.0005
Zinc	2	5	0.012

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.8
BOD5 (mg/L)			1
Suspended Solids (mg/L)			1
<i>E.coli</i> post disinfection (orgs/100mL)			0
Somatic Coliphage			0.5
Total Nitrogen (mg-N/L)	5	25-125	9.3
Nitrite (mg-N/L)			0.01
Nitrate (mg-N/L)			7
Total Phosphorous (mg-P/L)	0.05	0.8-12	8.6

Salinity Indicators	Median
Sodium (mg/L)	220
Potassium (mg/L)	30
Calcium (mg/L)	25
Magnesium (mg/L)	22
SAR	7.6
Chloride (mg-Cl/L)	380
TDS (mg/L)	920
TDS Inorganic (mg/L)	800
TDS Organic (mg/L)	120
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