SRW Summary

Western Treatment Plant Recycled Water Quality SEPT 2019.

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.04
Antimony			< 0.001
Arsenic	0.1	2	< 0.001
Barium			0.008
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.17
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	0.002
Cobalt	0.05	0.1	0.001
Copper	0.2	5	0.005
Iron	0.2	10	< 0.1
Lead	2	5	< 0.001
Lithium	2.5#	2.5#	0.01
Manganese	0.2	10	0.048
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	0.0005
Zinc	2	5	0.025

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.8
BOD5 (mg/L)			< 2
Suspended Solids (mg/L)			5
E.coli post disinfection (orgs/100mL)			< 1
Somatic Coliphage			< 1
Total Nitrogen (mg-N/L)	5	25-125	7.5
Nitrite (mg-N/L)			0.01
Nitrate (mg-N/L)			6.1
Total Phosphorous (mg-P/L)	0.05	0.8-12	3.7

Salinity Indicators	Median
Sodium (mg/L)	250
Potassium (mg/L)	26
Calcium (mg/L)	27
Magnesium (mg/L)	24
SAR	8.4
Chloride (mg-Cl/L)	340
TDS (mg/L)	830
TDS Inorganic (mg/L)	730
TDS Organic (mg/L)	100
Electrical Conductivity	1600

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