

Western Treatment Plant Recycled Water Quality for December 2014 – Post disinfection.

| Metals analysis in mg/L | LTV Limit * | STV Limit * | Median |
|-------------------------|-------------|-------------|----------|
| Aluminium | 5 | 20 | 0.06 |
| Antimony | | | 0.002 |
| Arsenic | 0.1 | 2 | 0.002 |
| Barium | | | 0.006 |
| 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 | 0.01 |
| Iron | 0.2 | 10 | < 0.1 |
| Lead | 2 | 5 | < 0.001 |
| Lithium | 2.5# | 2.5# | 0.01 |
| Manganese | 0.2 | 10 | 0.051 |
| Mercury | 0.002 | 0.002 | < 0.0001 |
| Molybdenum | 0.01 | 0.05 | 0.003 |
| Nickel | 0.2 | 2 | 0.01 |
| Selenium | 0.02 | 0.05 | < 0.001 |
| Silver | | | < 0.001 |
| Thorium | | | < 0.002 |
| Tin | | | < 0.001 |
| Vanadium | 0.1 | 0.5 | 0.002 |
| Zinc | 2 | 5 | 0.019 |

| Physical Chemistry | LTV Limit * | STV Limit * | Median |
|---------------------------------------|-------------|-------------|----------|
| pH | | | < +/-0.1 |
| BOD5 (mg/L) | | | 2.5 |
| Suspended Solids (mg/L) | | | 5 |
| E.coli post disinfection (orgs/100mL) | | | < 1 |
| Somatic Coliphage | | | < 1 |
| Total Nitrogen (mg-N/L) | 5 | 25-125 | 9.7 |
| Nitrite (mg-N/L) | | | 0.04 |
| Nitrate (mg-N/L) | | | 8.6 |
| Total Phosphorous (mg-P/L) | 0.05 | 0.8-12 | 7.4 |

| Salinity Indicators | Median |
|-------------------------|--------|
| Sodium (mg/L) | 270 |
| Potassium (mg/L) | 32 |
| Calcium (mg/L) | #N/A |
| Magnesium (mg/L) | 25 |
| SAR | 8.8 |
| Chloride (mg-Cl/L) | < 1 |
| TDS (mg/L) | 960 |
| TDS Inorganic (mg/L) | 850 |
| TDS Organic (mg/L) | 110 |
| Electrical Conductivity | 1700 |

| Aesthetic Indicator | Median |
|----------------------|--------|
| Colour (Pt/co units) | 16 |

* 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