

## Drinking Water Quality in Ti Tree

| Parameter/Location                  | Trigger level <sup>1</sup> | Units    | Actual level <sup>2</sup>     |
|-------------------------------------|----------------------------|----------|-------------------------------|
| <b>Health Parameters</b>            |                            |          |                               |
| Antimony                            | 0.003                      | mg/L     | 0.0001                        |
| Arsenic                             | 0.007                      | mg/L     | 0.002                         |
| Barium                              | 0.7                        | mg/L     | 0.1                           |
| Boron                               | 4                          | mg/L     | 0.4                           |
| Cadmium                             | 0.002                      | mg/L     | 0.0001                        |
| Chromium                            | 0.05                       | mg/L     | 0.002                         |
| Fluoride                            | 1.5                        | mg/L     | 0.8                           |
| Iodide                              | 0.1                        | mg/L     | 0.2                           |
| Lead                                | 0.01                       | mg/L     | 0.0005                        |
| Mercury                             | 0.001                      | mg/L     | 0.00005                       |
| Molybdenum                          | 0.05                       | mg/L     | 0.002                         |
| Nickel                              | 0.02                       | mg/L     | 0.001                         |
| Nitrate                             | 50                         | mg/L     | 7                             |
| Nitrite <sup>3</sup>                | 3                          | mg/L     | DNA                           |
| Radiological <sup>4</sup>           | 0.5                        | mSv/year | DNA                           |
| Selenium                            | 0.01                       | mg/L     | 0.006                         |
| Silver                              | 0.1                        | mg/L     | 0.005                         |
| Total THMs                          | 0.25                       | mg/L     | DNA                           |
| Uranium                             | 0.02                       | mg/L     | 0.04                          |
| <b>Aesthetic Parameters</b>         |                            |          |                               |
| Aluminium                           | 0.2                        | mg/L     | 0.001                         |
| Chloride                            | 250                        | mg/L     | 80                            |
| Copper                              | 1                          | mg/L     | 0.005                         |
| Hardness                            | 200                        | mg/L     | 230                           |
| Iron                                | 0.3                        | mg/L     | 0.01                          |
| Manganese                           | 0.1                        | mg/L     | 0.04                          |
| pH                                  | 6.5 - 8.5                  | pH units | 7.8                           |
| Sodium                              | 180                        | mg/L     | 150                           |
| Sulphate                            | 500                        | mg/L     | 65                            |
| TDS                                 | 800                        | mg/L     | 700                           |
| Zinc                                | 3                          | mg/L     | 0.007                         |
| <b>Other Parameters<sup>5</sup></b> |                            |          |                               |
| Alkalinity                          | *                          | mg/L     | 350                           |
| Beryllium                           | *                          | mg/L     | 0.0005                        |
| Bromide                             | *                          | mg/L     | 0.1                           |
| Calcium                             | *                          | mg/L     | 45                            |
| Electrical Conductivity             | *                          | µS/cm    | 1030                          |
| Magnesium                           | *                          | mg/L     | 22                            |
| Potassium                           | *                          | mg/L     | 21                            |
| Silica                              | *                          | mg/L     | 50                            |
| Tin                                 | *                          | mg/L     | 0.005                         |
| <b>Legend</b>                       |                            |          |                               |
| N/A                                 | Not applicable             | *        | No guideline value applicable |
| DNA                                 | Data not available         | µS/cm    | Microsiemens per centimetre   |
| mg/L                                | Milligrams per litre       | mSv/year | Millisieverts per year        |

<sup>1</sup> Australian Drinking Water Guideline (ADWG 1996) values for health and aesthetic parameters. TDS guideline value set by DHCS.

<sup>2</sup> Actual level is the average of results obtained from samples collected in the reticulation system in Ti Tree for 2002-2004.

<sup>3</sup> Readily oxidises to Nitrate and therefore not tested.

<sup>4</sup> Total annual radiological dose per year.

<sup>5</sup> With the exception of Beryllium and Tin all other parameters are not included in the ADWG and tests are conducted for analytical purposes and to assist in providing a complete set of water quality results.