

QUALITY OF WATER SUPPLIED IN JOHANNESBURG

August-16

Microbiological safety requirements

| | | Limit | Compliance Target % | Compliance Achieved % | Number of tests | Number of non-compliances |
|--------|-------------|-------|---------------------|-----------------------|-----------------|---------------------------|
| E.coli | count/100ml | 0 | 99.0 | 100 | 547 | 0 |

Physical, organoleptic and chemical requirements

| | | Limit | Compliance Target % | Compliance Achieved % | Number of tests | Number of non-compliances |
|---|-------------------------|-----------|---------------------|-----------------------|-----------------|---------------------------|
| Chemical & Physical properties | | | | | | |
| Colour | mg/L as Pt | 20 | 95 | 98.2 | 537 | 10 |
| Conductivity | mS/m | 150 | 95 | 100 | 539 | 0 |
| Odour | TON | 5 | 95 | 100 | 47 | 0 |
| pH | pH units | 5.0 - 9.5 | 95 | 100 | 546 | 0 |
| Taste | TTN | 5 | 95 | 100 | 47 | 0 |
| Turbidity | NTU | 1 | 95 | 98.2 | 537 | 10 |
| Chemical requirements - macro-determinand | | | | | | |
| Ammonia | mg/L as N | 1 | 95 | 100 | 46 | 0 |
| Calcium | mg/L as Ca | 150 | 95 | 100 | 49 | 0 |
| Chloride | mg/L as Cl | 200 | 95 | 100 | 46 | 0 |
| Fluoride | mg/L as F | 1 | 95 | 100 | 46 | 0 |
| Magnesium | mg/L as Mg | 70 | 95 | 100 | 49 | 0 |
| Nitrate and nitrite | mg/L as N | 10 | 95 | 100 | 46 | 0 |
| Potassium | mg/L as K | 50 | 95 | 100 | 46 | 0 |
| Sodium | mg/L as Na | 200 | 95 | 100 | 49 | 0 |
| Sulphate | mg/L as SO ₄ | 400 | 95 | 100 | 46 | 0 |
| Zinc | mg/L as Zn | 5 | 95 | 100 | 49 | 0 |
| Chemical requirements - micro-determinand | | | | | | |
| Aluminium | mg/L as Al | 0.3 | 95 | 100 | 49 | 0 |
| Antimony | µg/L as Sb | 10 | 95 | 100 | 49 | 0 |
| Arsenic | µg/L as As | 10 | 95 | 100 | 49 | 0 |
| Cadmium | µg/L as Cd | 5 | 95 | 100 | 49 | 0 |
| Chromium | µg/L as Cr | 100 | 95 | 100 | 49 | 0 |
| Cobalt | µg/L as Co | 500 | 95 | 100 | 49 | 0 |
| Copper | mg/L as Cu | 1 | 95 | 100 | 49 | 0 |
| Cyanide (Free) | µg/L as CN | 50 | 95 | 100 | 49 | 0 |
| Iron | mg/L as Fe | 0.2 | 95 | 100 | 49 | 0 |
| Lead | µg/L as Pb | 20 | 95 | 100 | 49 | 0 |
| Manganese | mg/L as Mn | 0.1 | 95 | 100 | 49 | 0 |
| Mercury | µg/L as Hg | 2 | 95 | 100 | 49 | 0 |
| Nickel | µg/L as Ni | 150 | 95 | 100 | 49 | 0 |
| Selenium | µg/L as Se | 20 | 95 | 100 | 49 | 0 |
| Vanadium | µg/L as V | 200 | 95 | 100 | 49 | 0 |
| Chemical requirements - organic determinands | | | | | | |
| Dissolved Organic Carbon | mg/L as C | 10 | 95 | 100 | 49 | 0 |
| Total Trihalomethanes | µg/L | 200 | 95 | 100 | 10 | 0 |
| Phenols as C ₆ H ₅ OH | µg/L | 10 | 95 | 100 | 49 | 0 |
| Free chlorine | mg/L | | | | 547 | 0 |
| Monochloramine | | | | | 547 | 0 |

Johannesburg Water supplies water to the Johannesburg Metropolitan area.

This water is tested regularly and is compared to the SABS National Standard SANS 241-1 : 2015

Further information on the quality of water in Johannesburg is also available at the following web sites:

www.johannesburgwater.co.za

www.dwa.gov.za/dir_ws/dwqr

<https://www.johannesburgwater.co.za/about/resource-centre/>