

Standard Tests

Richmond Water Laboratories is a NATA accredited laboratory and conducts its tests in accordance with AS ISO/IEC 17025:2005. For details of the scope of Richmond Water Laboratories accreditation, please refer to the NATA website: www.nata.com.au

Test Description	Limit of Reporting
Alkalinity - CO ₃ ²⁻ , HCO ₃ ⁻ , OH ⁻ & total	0/20/0/20 mg/L
Alkalinity - total as CaCO ₃	20 mg/L
Al, Fe, Mn suite	0.005 mg/L
Biological Oxygen Demand (BOD)	2 mg/L
Blue green algae - potentially toxic genera#	cells/mL
Blue green algae – potentially toxic species*	cells/ml
Ca, Mg & hardness	0.1/0.1/1 mg/L
Ca, Mg, Na, K suite	0.1/0.1/0.15/0.1 mg/L
Chemical oxygen demand (COD)	25 mg/L
Chemical oxygen demand (COD) - dissolved	25 mg/L
Chloride	2 mg/L
Chlorine - free	0.05 mg/L
Chlorine - total	0.05 mg/L
Chlorophyll 'a'	2 mg/L
Chromium (VI)#	0.05 mg/L
Colour - apparent	2 Pt-Co units
Colour - true	2 Pt-Co units
Cu, Pb, Zn suite	0.005 mg/L
Cyanide, free*	0.004 mg/L
Cyanide, total*	0.004 mg/L
Dissolved organic carbon (DOC)*	1 mg/L
Dissolved oxygen	0.2 mg/L or 1%
E. coli and total coliforms	1 MPN/100mL
Electrical conductivity + TDS by calculation	1 µS/cm & 2 mg/L
Enterococci*	cfu/100ml
Faecal coliforms	1 MPN/100mL
Fluoride	0.05 mg/L
Hardness	1 mg/L
Heterotrophic Plate Count (HPC)	2 MPN/mL

Test Description	Limit of Reporting
Iodide*	0.1 mg/L
Langelier Saturation Index#	calculation
MBAS (Surfactants)*	0.1 mg/L
Metals in water	0.005-0.01 mg/L
Metals in soil	1-7 mg/kg
Microscopic examination#	P/A
Nitrogen - ammonia	0.01 mg/L
Nitrogen - nitrate	0.05 mg/L
Nitrogen - nitrite	0.01 mg/L
Nitrogen - oxidised	0.05 mg/L
Nitrogen - total	0.1 mg/L
Nitrogen - total Kjeldahl	0.1 mg/L
Oil & grease	2 mg/L
Organochlorines/Organophosphates in soil*	0.1 mg/L
Organochlorines/Organophosphates in water*	0.2 mg/L
PAH*	0.001 mg/L
pH	pH units
Phosphorus - orthophosphate (reactive PO ⁴)	0.03 mg/L
Phosphorus - total	0.05 mg/L
Pseudomonas aeruginosa*	cfu/100 ml
Redox#	mV
Salmonella*	Detect/ND
Sodium Absorption Ratio# (with Na, Ca, Mg)	calculation
Solids – total dissolved by calculation (TDS)	1 mg/L
Solids – total dissolved gravimetric (TDS)	5 mg/L
Solids – total suspended (TSS or NFR)	1 mg/L
Solids - volatile suspended (VSS)	1%
Sulphate#	1 mg/L
Sulphide*	1 mg/L
Total organic carbon (TOC)*	1 mg/L
TRH*	50-100 mg/L
Trihalomethanes (THM's)*	0.05-0.1 mg/L
Turbidity	0.1 NTU
UV Absorbance @254nm and Transmissivity	0.01 abs & 1 %

denotes not NATA accredited * denotes subcontracted. Richmond Water Laboratories reserves the right to offer discounts for routine analysis dependant on the range and volume of samples.