



Quality Management

The Australian Water Quality Centre is committed to the delivery of a high quality service, targeted to customer needs, through a policy of continuous improvement.

The AWQC is accredited by the National Association of Testing Authorities Australia (NATA) for a wide range of chemical and biological tests on water, wastewater and related materials such as soils and sediments, including sample collection.

The AWQC operates under a quality system certified to the requirements of International Standard ISO 9001.

ANALYTICAL QUALITY CONTROL AT AWQC

The validity of test results is monitored by the AWQC Analytical Quality Control (AQC) program and participation in inter-laboratory proficiency testing programs. The AQC program is maintained by a separate unit at the AWQC, independent of the routine analytical units, and staffed by a Quality Control Chemist. AQC programs are also provided for water and wastewater treatment plant laboratories in South Australia and this service can be made available to other laboratories on request.

Chemical Testing - NATA Accreditation Number 1115

For water, wastewater and sediments:

Cations, Anions, metals, nutrients, pH, total dissolved solids, Hardness, Langelier index and Sodium absorption Ratio, Organic Carbon – total and dissolved.

Pesticides – organochlorine, organophosphorous, triazine, fipronil and fipronil desulfinyl.

Volatile halogenated hydrocarbons, volatile organic compounds (VOC).

MIB (2-methylisoborneol) and Geosmin, 2,4,6-trichloroanisole. Microcystins and nodularin.

Disinfection By-Products (DBP)- Trihalomethanes, chloroacetic acids, halogenated disinfection by-products, cyanogens chloride, DBP formation potential

Wastewater Treatment parameters - Biochemical oxygen demand, Chemical oxygen demand, Dissolved oxygen, Suspended solids, Grease and oil, Detergents.

Water Treatment Parameters - Colour, turbidity, chloramine, chlorine, chlorine demand, UV absorbance, and UV transmittance.

Biological Testing - NATA Accreditation Number 1390.

Tests for water and wastewater:

Coliforms, faecal coliforms, *enterococci*, plate count, faecal streptococci, *Aeromonas hydrophilia*, *Escherichia coli*, *Legionella* spp., *Legionella pneumophila*, *Pseudomonas* spp., *Salmonella* spp. *Acanthamoeba*, *Naegleria*, *Cryptosporidium* and *Giardia*.

Identification and enumeration of biota, including macroinvertebrates and macrophytic algae.

Identification and counting of algae including cyanobacteria, Chlorophyll.



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CERTIFIED QUALITY
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15 FEBRUARY 2009