

TOWNSVILLE LABORATORY SERVICES

ABOUT US

Townsville Laboratory Services is an advanced analytical laboratory located at the Douglas Water Treatment Plant, Angus Smith Drive, Townsville, Queensland.

The laboratory is composed of a chemical laboratory and a microbiological laboratory.

We currently service a range of organisations throughout Queensland including local government shires and councils, hospitals, universities, schools and other institutions in North Queensland.

Our services extend to the following industries:

- » Agriculture
- » Industrial
- » Livestock
- » Power and energy
- » Trade waste
- » Medical
- » Chemical processing
- » Mining and mineral processing
- » Solid waste
- » Paper
- » Oil and gas
- » Transport
- » Food and beverages



ANALYTICAL CAPABILITIES

Water supply analysis

- » Physico-chemical parameters
- » Metals
- » Disinfection by-products
- » Water microbiology

Biological analysis

- » Coliforms (including E coli)
- » Thermotolerant coliforms
- » Pseudomonas aeruginosa
- » Faecal Streptococcus
- » Heterotrophic Plate Count

Wastewater analysis

- » Biological oxygen demand
- » Chemical oxygen demand
- » Total organic carbon
- » Suspended solids
- » Oil and grease and/or total petroleum hydrocarbons
- » Volatile suspended liquids
- » Free and total nutrients

Natural and digester gas analysis

- » Hydrogen sulphide
- » Carbon dioxide
- » Methane
- » Carbon Monoxide
- » Nitrogen

Environmental analysis

- » Free nutrients (ammonia, nitrates and phosphates)
- » Total nitrogen and phosphorus
- » Algae identification
- » Counting and microphotography
- » Metals analysis
- » Heavy and major metals
- » Acid sulphate soils
- » Field analysis for
 - » pH
 - » conductivity
 - » dissolved oxygen
 - » chlorophyll
 - » temperature

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**TOWNSVILLE
WATER**



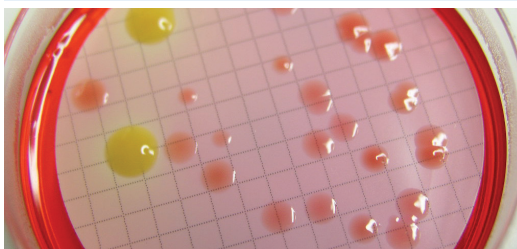
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SAMPLE TYPES

Townsville Laboratory Services analyses the following samples:

- | | | |
|--------------------------|--------------------------------------|---------------------------------|
| » Boilers | » Irrigation waters | » Sludges |
| » Bore water | » Marine waters | » Soils and acid sulphate soils |
| » Cooling towers | » Raw sewerage | » Swimming pools |
| » Drinking water | » Recreational waters | » Tip leachates |
| » Dust and dust fallouts | » Rivers, lakes, stream waters, dams | » Trade waste |
| » Effluents | » Sediments | » Other special samples |
| » Ground waters | » Sewage digester gas | |
| » Impingers | | |



EQUIPMENT

The laboratory houses state of the art equipment including:

- » Inductively Coupled Plasma – Mass Spectrometry
- » UV-VIS Spectrophotometer
- » Total Organic Carbon Analyser
- » Ion chromatograph
- » Flow Injection and Discrete Analysers
- » Portable pH, conductivity and dissolved oxygen meters
- » GC-MS and GC-ECD-Purge and Trap
- » GC FPD/TCD for natural gas analysis
- » Microscope with digital image capture system

CONTACT DETAILS

Townsville Laboratory Services

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ACCREDITATION AND QUALITY ASSURANCE

Townsville Laboratory Services has been NATA accredited for chemical testing (accreditation number 14698) since 2002 and biological testing (accreditation number 14699) since 2006.

Townsville Laboratory Services obtained quality system certification to ISO 9001 in 2003.

Our NATA accreditation ensures compliancy to the international standard ISO 17025 which includes:

- » The competency of the laboratory in performing test in its scope of accreditation
- » The validity of the systems and procedures used in the laboratory and the robustness and level of uncertainty in the results.

- » The quality systems used within the laboratory are comparable to other ISO/IEC 17025 accredited laboratories throughout the world.
- » The laboratory has a system of auditing that ensures its independence and that its results are kept secure and confidential.

Townsville Laboratory Services is staffed by a team of highly skilled scientists and microbiologists who have tertiary qualifications and expertise in chemistry, microbiology, molecular genetics, organic chemistry, analysis of food, water, wastewater, environmental and refinery samples for chemical, biological and microbiological constituents, food production and safety, algal identification and bacterial pathogens.



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