

# Proficiency Testing

LGC

## Water & Environment

ISO/IEC 17043



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### AQUACHECK

#### Water, Agricultural Soils & Sludges

The industry leading LGC AQUACHECK scheme has been in continuous operation since 1985. Test materials are provided for the analysis of major inorganic/organics; metals; phenols; organochlorine pesticides and many others.

Water is vital in sustaining all natural systems. Each source requires regular analyses to determine safety and suitability of use. Potable water must be good in quality and quantity and free from harmful chemicals and microorganisms. Discharged water from local wastewater treatment plants and industry must comply with environmental guidelines.

Process waters must be kept clean to ensure product quality. As water sources can change regular testing is advised.

Participation in the LGC AQUACHECK scheme allows laboratories to identify problems before they affect the quality and safety of waters. Participants will be able to demonstrate independently that they are producing accurate and meaningful results to laboratory management and customers.



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Test material*	Analyte*
<b>Clean water (Organics)</b>	Acid herbicides, Acrylamide, BTEX, Chlorinated solvents, Chlorophyll a, Fungicides, Geosmin and MIB, Haloform solvents, OC and OP pesticides, PAHs, PCBs, PFOA, PFOS, Formaldehyde, Phenols, Taste and odour, Triazines and Urea herbicides, UV absorbing organics constituents.
<b>Clean water (Radiochemistry)</b>	Aqueous tritium, Gross alpha, Gross beta.
<b>Ground water (Metals)</b>	Metals, Toxic metals.
<b>Qualitative water (Organics)</b>	Organics by purge, trap and/or headspace GCMS, Qualitative determination of unknown contaminant.
<b>Clean water (Inorganics)</b>	BOD, Chromium (VI), COD, DOC, MBAS, Metals, Non-ionic surfactants, Suspended solids, Toxic metals, Turbidity.
<b>Poorly buffered water</b>	pH.
<b>Soil</b>	Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Vanadium, Zinc, Selenium, Total boron, Water extractable boron, Fluoride, Total nitrogen, Total phosphorus, Total potassium, Cobalt, Iron, Manganese, Total solids, Loss on ignition, pH, Extractable phosphorus, Extraction of potassium, Extraction of magnesium, Extraction of sodium, Organic carbon content, Conductivity, Carbonate content.
<b>Clean water</b>	Chlorine (free, total), Inorganic disinfection by-products.
<b>Hard and soft water (Inorganics)</b>	Colour, Conductivity, Major inorganic components, Nutrients and others, pH, TDS.
<b>Ecotoxicology</b>	Ecotoxicology tests.
<b>High salinity potable water</b>	Conductivity, Major ions, pH, TOC, TDS.
<b>Wastewater</b>	Acid herbicides, AOX, BTEX, Chlorinated solvents, Haloforms, OC and OP pesticides, Phenols, PCBs, PAHs, Triazines and Urea herbicides. Mineral oil, Oil and grease.
<b>Effluents &amp; wastewater</b>	BOD, Chromium (VI), COD, DOC, Metals, MBAS, Non-ionic surfactants, Non specific analytes, Nutrients and other analytes, Settleable solids, Suspended solids, Toxic metals, Turbidity.
<b>Effluents &amp; wastewater (Industrial)</b>	Ammonia, Cyanide, Major wastewater analytes, Metals, Nitrogen, Phenol (total), Phosphate, Sulfate, Sulfide (total).
<b>Sludge</b>	Arsenic, Cadmium, Chromium, Cobalt, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Total boron, Total nitrogen, Total phosphorus, Total potassium, Vanadium, Zinc.

\* The full range and availability of test materials and analytes is determined on an annual basis and may be added or removed. For accredited and non-accredited status please see current application form/ scheme description.