

The WaterChek Sea Water Chemistry programme has been designed for laboratories engaged in research, industry, environmental and public health testing. WaterChek provides independent verification of test performance across a wide range of tests and sample matrices.



PROGRAMME OBJECTIVE

Regular monitoring of Sea (Marine) Waters via sampling and testing is important to ensure the health of the public using the water (bathing and water sports); to monitor pollution, and to ascertain the quality of aquatic ecosystems.

The WaterChek Sea Water Proficiency Testing scheme has been developed to provide a system for laboratories to validate their testing capability and benchmark their results. Sample preparation has been designed to cover a range of concentrations for major analytes – ensuring sample properties are representative of samples most often tested in participating laboratories.

BENEFITS OF PARTICIPATING IN WATERCHEK

➤ Confidence in Results

Measurement of performance in comparison with other laboratories provides:

- Confidence that Precision and Accuracy of test results are within expected limits.
- Confirmation of differences between methods where this may be expected.

➤ Credibility

Test performance can be demonstrated to:

- Customers
- Regulatory Authorities
- Accreditation Agencies

➤ Compliance with

- Laboratory Standards (e.g., ISO 17025)
- Regulatory, environmental and customer requirements

➤ Training

- Test performance from individual analysts can be monitored and reported over time.

PROGRAMME FEATURES

- Comprehensive range of proven sample formats covering a wide range of tests in each round.
- Participation by many accredited laboratories gives high quality, robust data sets with low variation.
- Guidance from the independent Technical Advisory Group ensures relevance to current industry needs.

ACCREDITATION

Global Proficiency is accredited to ISO/IEC 17043: Conformity Assessment - General Requirements for the competence of proficiency testing providers; our scope includes the WaterChek programme however the Sea Water categories are not currently included but are operated under the same quality management system.

AVAILABLE TESTS

Base (WSS)

Absorbance - filtered (254nm)
 Alkalinity
 Ammonia-N
 Calcium
 Chloride
 Colour True
 Conductivity @ 25°C
 Fluoride
 Hardness - Total
 Magnesium
 Nitrate-N
 Nitrite-N
 NOx-N
 Nitrogen – Total
 Nitrogen – Total Kjeldahl
 Orthophosphate as P
 pH @ 25°C
 Phosphorus - Dissolved Reactive
 Phosphorus - Total
 Potassium
 Salinity
 Silica
 Sodium
 Sulphate
 Turbidity

Trace Elements (WST)

Aluminium
 Antimony
 Arsenic
 Barium
 Bismuth
 Boron
 Bromine
 Cadmium
 Chromium
 Magnesium
 Cobalt
 Copper
 Gallium
 Iron
 Lead
 Lithium
 Manganese
 Mercury
 Molybdenum
 Nickel
 Selenium
 Strontium
 Uranium
 Vanadium
 Zinc

Demand (Base)

cBOD
 TBOD
 NPOC
 TOC

Solids (Base)

Solids – Total
 Solids – Dissolved
 Solids – Suspended

Global Proficiency also offers other WaterChek proficiency programmes including **Effluent Water**, **Potable Water** and **Basic Chem**. Please request a copy of the Programme Description if you are interested.

FOR MORE INFORMATION PLEASE VISIT OUR WEBSITE

www.global-proficiency.com

OR EMAIL

enquiries@global-proficiency.com