fapas®

# Water & Environmental Chemistry Proficiency Testing

**Modern analytical techniques are allowing us to detect chemicals in water at ever decreasing concentrations, and this is changing our understanding of the pollutants that may be present in the environment, which can consequently be an issue for our drinking water.**

Increasing legislation controlling permitted levels of agricultural contaminants such as fertiliser run-off and over-sprayed herbicides and pesticides means it has never been so important to ensure laboratory analysis of these potentially harmful substances is as accurate as possible. Typically present at low concentrations, they can still impact on the ecosystem and cause damage.

In many regions the majority of drinking water is sourced from rivers and reservoirs, which collect water from a range of environments, including agricultural, urban and potentially industrial areas. Regular monitoring of these diverse water types is required by governmental regulation to ensure the safety of the water we drink and the environment we live in.

fera

Original thinking... applied

# Water & Environmental Chemistry Proficiency Testing Schedule

| Materials / Products | Type of Test / Properties Measured |
|---|---|
| Drinking water (potable water) | Acid herbicides |
| High salinity water | Anions |
| Soil (contaminated) | Alkalinity |
| Surface water | BTEX (benzene, toluene, ethylbenzene, styrene, xylene) |
| Waste water (effluent) | Cations |
| | Chlorine (total + free) |
| | Cr (VI) |
| | Cyanide (total) |
| | Flurosurfactants (PFOS, PFOA) |
| | Haloacetic acids |
| | Inorganic disinfection by-products |
| | Major inorganic components |
| | Metals (routine, toxic, trace) |
| | Minerals |
| | Nitrogen (total + Kjeldahl) |
| | Nutrients (complex + simple) |
| | Organochlorine (OC) pesticides |
| | Organophosphate (OP) pesticides |
| | Oil and grease |
| | Oxygen demand (BOD, COD, TOC) |
| | Oxygen (dissolved) |
| | Perchlorate |
| | pH + conductivity |
| | Phosphorus (total + orthophosphate) |
| | Phthalates |
| | Polycyclic aromatic hydrocarbons (PAHs) |
| | Routine components |
| | Solids (dissolved, suspended, total) |
| | Sulphide (total) |
| | Triazine + urea (uron) pesticides |
| | Trihalomethanes / chlorinated solvents |
| | Uranium |
| | VOC |

fera

Original thinking... applied

Fapas®, Fera Science Ltd. (Fera), National Agri-Food Innovation Campus, Sand Hutton, York, YO41 1LZ, United Kingdom

www.fapas.com
www.fera.co.uk
info@fapas.com
+44 (0)1904 462100