



**PTSG**  
PREMIER TECHNICAL  
SERVICES GROUP

*Water Treatment Ltd*



# OVERVIEW

Delivering water safety and environmental consultancy for clients across the British Isles

Through our comprehensive provision of water hygiene, water treatment and remedial services, we are a trusted partner for clients in all industry sectors. Our services ensure the safe management of water systems, with protection from Legionella and compliance with the necessary regulations. Our focus is on reliability and sustainability and saving companies time and money.

We offer a wide range of services in industrial water hygiene and water treatment, combining the specialist skills and knowledge of our engineers with the very latest cutting-edge tools to deliver high performance, safety and consistency. We are a trusted partner to our clients, ensuring water safety, protection from Legionella and decontamination from many other bacteria and viruses.

We are members of the Legionella Control Association (LCA). Our Quality Management System for all work activities is upgraded to the ISO 9001/ISO 14001/ISO 45001 standards. We are a Constructionline approved contractor and have accreditation with the Source Testing Association (STA), SafeContractor, CHAS and BOHS.

We are winners of the RoSPA Water Sector Award and also received the RoSPA Scotland Trophy (Highly Commended).



Water Hygiene



Legionella Risk Assessment



Water Treatment



Water Sampling



Eco Fogging



Environmental Consultancy



Mechanical Engineering



Product Chemical Supplies



Legionella Training Courses



# WATER SERVICES



## WATER HYGIENE SERVICES



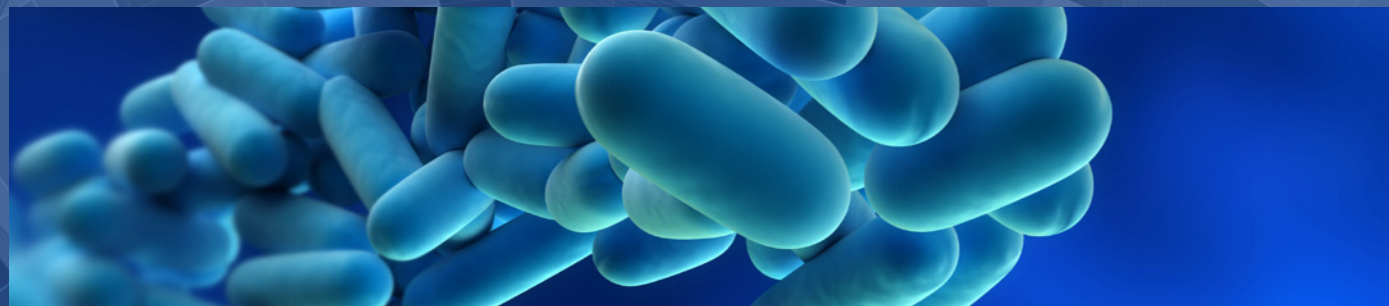
Water hygiene encompasses the implementation and monitoring of written control schemes after a risk assessment as well as the upgrade or improvement of your water system. We can assist you not only in providing tried and tested methods of monitoring, cleaning, disinfection and refurbishment of water systems, but also in designing innovative engineered control measures to comply with relevant legal requirements.

Under COSHH Regulations 2002 and ACoP L8, employers have legal duty to prepare and manage a scheme for maintaining safe water quality.

Following a risk assessment of water systems, we are able to physically undertake remedial action required in order to comply with recommendations stated in ACoP L8. Typical water hygiene activities we undertake include but not limited to:

- Descaling/Cleaning/Disinfection of Storage tanks, Cooling tower, Showerhead, Calorifier etc.
- Hot and Cold Water System Disinfection
- Tank Refurbishments and Upgrades to 'Byelaw 30'
- Water Quality Testing





## LEGIONELLA RISK ASSESSMENT



We have a wealth of experience in conducting Legionella risk assessments across all industry sectors. Building owners are responsible for their work premises under the Health and Safety Act 1974.

They must carry out a risk assessment of the property or premises that assesses the risk of exposure to Legionella. We can make them aware of what Legionella is, what systems are hazardous and which are low-risk.

The HSE's Approved Code of Practice (ACoP) L8 is a guideline document for the prevention and control of legionellosis in water systems and has a special legal status by which the employer can be prosecuted, fined or even imprisoned, if it is proved that you did not follow the relevant provisions of the Code.

Our risk assessment follows the guidance set out in BSEN 8580:2010 which gives recommendations on the assessment of the risk of legionellosis presented by artificial water systems. The assessment will conclude on the condition of plant and advise you of any remediation necessary in order to reduce the risk from Legionella bacteria.



## WATER TREATMENT



Cooling towers and water systems perform an intrinsic function within a building. However corrosion, scaling, fouling and microbiological contamination, including legionella, can pose a significant health and safety risk. PTSG Water Treatment Ltd can minimise the risk to your employees, clients and your business by creating a water treatment programme with an effective maintenance regime to safeguard against any foreseeable risk.

We maintain, treat, monitor and prolong the life of our clients' water supplies and systems through the following services:

- Heating and chilled closed systems
- Pre-treatment, maintenance and commissioning
- Chemical dosing, maintenance and installation
- Cooling tower maintenance
- Steam boiler maintenance
- Steam quality testing
- Water softening services
- RPZ testing service
- ClO2 testing and maintenance
- X-POT® installation and maintenance





## WATER SAMPLING

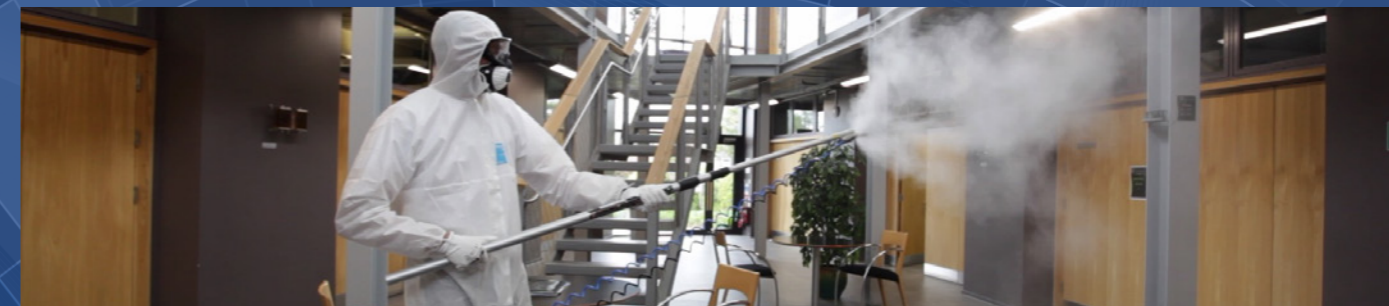


A water systems sampling service can encompass a whole range of applications from cooling water towers and cold water storage tanks to swimming pools and jacuzzis, humidifiers, dental equipment, emergency showers, closed water systems, water heaters and many more.

There is an important distinction between water sampling and water testing. Water testing is the process used for analysing the constituents or microbial content of the water. Water sampling is the action of sample collection and transportation. As they are separate services, there are separate British Standards for each.

All legionella monitoring and sampling programmes for cooling towers and cooling water systems should include routine sampling and testing for the presence of bacteria including Legionella bacteria. The water testing procedures should include for both general (aerobic) bacterial species and more specifically Legionella bacteria.

In addition to the regular sampling for aerobic bacteria in cooling water, a routine monitoring scheme should also include periodic sampling for the presence of Legionella bacteria. This should be undertaken at least quarterly, unless sampling is necessary for other reasons, such as to help identify possible sources of the bacteria during outbreaks of Legionnaires' disease.



## ECO FOGGING



PTSG has a dedicated fogging division, with a team of qualified specialists for the control and decontamination of bacteria and viruses within various applications.

Applying our in-depth knowledge of bacteria controls and fogging technology, we deliver effective dry fogging disinfection solution for a wide variety of clients.

Ultra-Low Volume(UVL) dry fogging involves using 1-5 micron droplets of disinfection that will settle on all surfaces of many objects and inaccessible areas that may not be reached using conventional methods. Studies show the application of disinfection by aerosol significantly reduces the number of viable infectious airborne pathogens.

This is achieved by treating air quality and all touch point surfaces with a dry disinfection with minimal disruption.

On completion, we will verify disinfection with an Ensure touch hand-held monitor that will analyse a rapid test, measuring active growth of microorganisms through detection of Adenosine Triphosphate (ATP).

The cleaning and disinfection of key touchpoints, such as door handles, washroom facilities and shared surfaces is carried out to minimise the risk of microbiological contamination to help protect staff, customers and visitors providing a safer environment





## ENVIRONMENTAL CONSULTANCY



We provide high-quality monitoring and assessment services through a dedicated team of specialist environmental consultants.

Our team has practical experience of helping companies comply with the environmental legislation and directives that affect the modern manufacturing business in the industrial sector. We are also able to offer a complete range of occupational exposure monitoring strategies to identify, assess and control risks to workers health and to assess indoor air quality.

All occupational exposure monitoring is carried out using HSE, NIOSH or OSHA validated methods and will provide data to allow comparison with HSE Workplace Exposure Limits as stated in EH40.

We provide a broad range of environmental consultancy services, tailored to your business including:

- Industrial Noise Assessment
- Local Exhaust Ventilation Testing
- Stack Emissions Monitoring
- Occupational Exposure Monitoring
- Indoor Air Quality
- Hand-Arm Vibration Studies
- DSEAR Assessments

We have designed our consultancy to work together with our clients, providing a final written report detailing actions implemented.

Please contact us about your next project and discover how we can help you comply in the most effective manner.



## MECHANICAL ENGINEERING



Tank Refurbishments and Upgrades

Our experienced plumbers approved by WIAPS (WRAS) scheme are qualified to undertake various mains water works for local water suppliers.

Water storage cisterns (commonly those over 20 years old) could possibly present a Legionella risk if they are not properly constructed and do not have secure lids, proper insulation, good front to back circulation or screened lid vents/overflows. To comply with Water Supply (Water Fittings) Regulations 1999 and BS 8558 we offer the following mechanical engineering services:

- Installation of 'byelaw 30' kits like screened lid vents, overflow insect/rodent screens
- Tank lining/ painting
- Tank insulation
- Tank lids
- Modification or replacement of hollow PVC lid supports
- Rerouting of pipework to avoid stagnation
- Hot and cold water system disinfection





## PRODUCT CHEMICAL SUPPLIES



Expert chemists and consultants

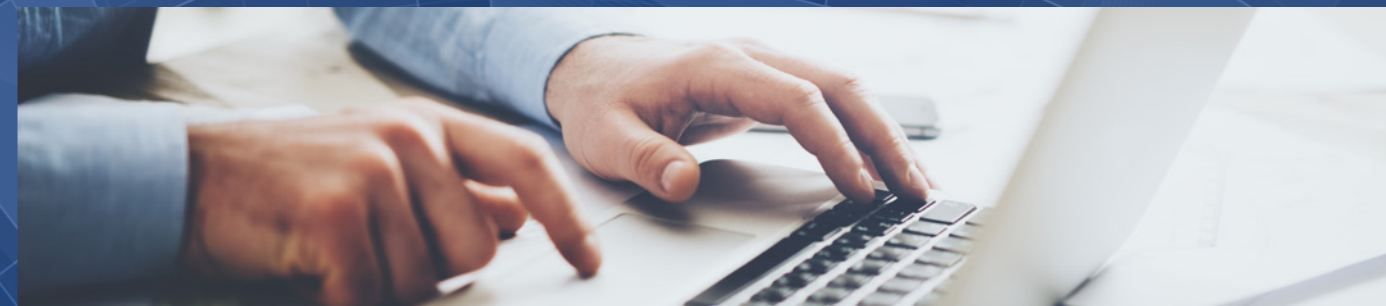
Our consultants and chemists are experts in the industry, designing tailor made solutions and recommending a chemical application programme suitable for your requirements.

We are a one-stop-shop for the supply of a multitude of chemicals and water conditioning products, essential to maintain water quality in a wide variety of applications.

Chemical products are sourced from local suppliers who are reliable in quality, value, high levels of customer service and guarantee prompt delivery of goods.

Common industrial water treatment products we supply include:

- Cooling tower or Evaporative Condenser Systems
- Boilers and Closed Heating or Cooling Systems
- Ornamental and Leisure Water Systems
- Complementary conditioning products
- We also supply test kits and reagents, dipslides, ATP meters and swabs



## LEGIONELLA TRAINING COURSES



Our courses are aimed at those in a position of responsibility for a water system in any property, including employers, employees, landlords and letting agents.

Our Legionella open training sessions are for groups of up to fifteen people from a wide range of different organisations. The courses are targeted at people working in facilities, engineering and maintenance roles. Our training sessions are a great opportunity to network with like-minded individuals from a wide range of companies.

Training includes:

- Introduction to Legionella and water hygiene
- New legislation
- Introduction to water services
- Bacteria and water contaminants
- The implications of disease
- Water systems and treatment
- What is Legionella bacteria?
- Legionella control and management
- Monitoring tasks
- Case Study
- Questions



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