



vantify
CONSULTANCY

Water Quality Consultancy and Monitoring Services

RESOURCE BROCHURE



1. Introduction

1.1 Managing Water Quality Risks

The quality of water within building systems has a significant impact on the health, safety and wellbeing of building occupants. Poor water quality can result in microbiological contamination, deterioration of water system assets, increased operational costs and non-compliance with statutory duties.

Commercial property water systems can present a range of water quality risks including:

- Legionella bacteria
- Pseudomonas aeruginosa
- Coliform bacteria
- Corrosion
- Scale formation
- Biofilm development
- Water stagnation
- Chemical imbalance
- Loss of treatment effectiveness

Water quality management forms a key component of an organisation's wider health, safety, compliance and asset management strategy.

1.2 Legal and Compliance Framework

Property owners / managers as duty holders are required to manage water systems to protect employees, occupants, contractors and visitors from foreseeable health risks.

Relevant legislation and guidance may include:

- Health and Safety at Work etc. Act 1974
- Management of Health and Safety at Work Regulations 1999
- Control of Substances Hazardous to Health Regulations 2002
- ACoP L8
- HSG274 Parts 1-3
- Water Supply (Water Fittings) Regulations
- British Standards relating to water quality management
- UK Drinking Water Inspectorate guidance

1.3 Duty Holder Responsibilities

Duty Holders should ensure that:

- Water systems are adequately managed
- Risks are identified and assessed
- Appropriate monitoring programmes are implemented
- Sampling is undertaken where necessary
- Competent advisers are appointed
- Monitoring records are maintained
- Performance is reviewed regularly

1.4 Competence

Vantify's Water Quality Consultancy services are delivered by experienced consultants with expertise in:

- Water hygiene
- Water quality management
- Legionella control
- Closed water systems
- Cooling water systems
- Water treatment programmes
- Water sampling and analysis
- Water safety governance

Our consultants work closely with property managers, facilities teams, water treatment providers and Duty Holders to support effective water quality management across commercial property portfolios.

2. Vantify's Approach

2.1 Risk-Based Water Quality Methodology

Vantify adopts a system-based and evidence-led approach to water quality management.

Assignments are designed to evaluate both the physical condition of water systems and the effectiveness of management controls.

Our methodology typically incorporates:

- Review of existing records
- Inspection of water systems
- Review of monitoring data
- Analysis of water quality trends
- Assessment of treatment programmes
- Evaluation of governance arrangements
- Verification of compliance activities
- Identification of risks and opportunities for improvement

2.2 Water Quality Monitoring and Sampling

Vantify can develop and implement risk-based sampling programmes tailored to the nature and complexity of the property portfolio.

Typical sampling services include:

Microbiological Testing

- Legionella analysis
- Total Viable Counts (TVC)
- Pseudomonas analysis
- Coliform testing
- E.coli monitoring

Chemical Analysis

- pH testing
- Conductivity
- Hardness
- Iron
- Copper
- Chlorine residuals
- Inhibitor concentrations
- Glycol analysis

Physical Water Quality Parameters

- Temperature compliance
- Turbidity
- Flow assessment
- System cleanlines

2.3 Closed Water System Consultancy

Closed water systems are critical building assets and poor water quality can lead to:

- Corrosion
- Fouling
- Reduced energy efficiency
- Equipment failure
- Increased maintenance costs

Vantify provides:

- Closed system sampling
- Corrosion risk assessments
- Treatment programme reviews
- Inhibitor analysis
- Glycol testing
- Performance audits
- Technical recommendations

2.4 Cooling Water Quality Consultancy

Cooling water systems require robust monitoring and management due to the potential impact of water quality on system performance and microbiological control.

Typical consultancy services include:

- Cooling tower audits
- Water treatment reviews
- Sampling programme reviews
- Chemical dosing assessments
- Trend analysis

- Compliance audits
- Contractor performance review

2.5 Water Hygiene Governance Reviews

Effective water quality management extends beyond sampling.

Vantify can undertake reviews of:

- Water hygiene policies
- Roles and responsibilities
- Written schemes
- Water safety plans
- Training arrangements
- Contractor management systems
- Incident response procedures
- Management reporting arrangements

This allows organisations to demonstrate both technical control and robust governance arrangements.

3. Report Format

3.1 Standards and Guidance

The specific standards applied will depend upon the service provided and the systems being assessed.

Applicable guidance may include:

- ACoP L8
- HSG274 Parts 1-3
- Water Supply (Water Fittings) Regulations
- Relevant British Standards
- Water treatment industry guidance
- Drinking Water Inspectorate guidance

3.2 Typical Report Content

Reports may include:

- Executive Summary
- Scope of Service
- Property and Asset Information
- Water System Overview
- Water Quality Data Review
- Sampling Results
- Trend Analysis
- Compliance Assessment
- Water Treatment Review
- Management System Review

- Risk Evaluation
- Prioritised Action Plan
- Technical Recommendations
- Supporting Photographs
- Recommended Review Frequency

3.3 Action Prioritisation

All recommendations are risk-ranked to enable resources to be focused on those actions that provide the greatest improvement in water quality performance and compliance assurance.

Recommendations may address:

- Immediate health risks
- Regulatory compliance
- Asset protection
- Operational performance
- Governance improvements
- Long-term resilience of water systems

Service Schedule (Commercial Property)

The following consultancy services can be commissioned individually or as part of an integrated water quality management programme:

- Water Quality Audits
- Potable Water Sampling
- Legionella Sampling
- Pseudomonas Sampling
- Closed System Analysis
- Cooling Water Reviews
- Water Hygiene Management Reviews
- Water Safety Plan Reviews
- Contractor Audits
- Water Treatment Programme Reviews
- Trend Analysis and KPI Reporting
- Incident Investigation Support
- Independent Expert Advice

The Vantify Ecosystem



The Vantify Ecosystem spans seven connected products:

Risk Manager - Compliance and risk management software

Supply Chain - Supply chain management and contractor assurance

CAFM - Facilities and asset management with a 24/7 Service Desk

Facilities Services - Managed building maintenance delivery

eLearning - Compliance training built to change behaviour, not just tick boxes

Intelligence - Legislation tracking and regulatory guidance

Consultancy - Specialist health and safety expertise, nationwide

Compliance. **Connected.**



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