

# HydroQual, Inc.

## Qualifications and Experience in Low Level Sampling

**Demonstrated practices . . . Experienced staff. . . Proven results**

**H**ydroQual, Inc. is a privately-owned environmental engineering and consulting firm established in 1980. The firm specializes in the assessment and optimization of wastewater treatment processes, hydrogeological and remediation services, natural resource investigations, and mathematical modeling to evaluate the fate and transport of pollutants and their effects in natural water systems. The firm provides a wide range of integrated science and engineering consulting services to public and private clients. HydroQual has an experienced staff of over 110 engineers, scientists, field, laboratory and support personnel who provide sampling services for regulatory compliance, site investigations, surface water quality surveys and soil and sediment characterizations.



**D**evelopment of analytical methods to achieve low level detection limits for many pollutants has led to the need for special “clean” sampling techniques to avoid trace level contamination of samples. Low level sampling is very sensitive to contamination during preparation for sampling, sample collection and sample handling. Therefore, sampling techniques become especially important. Clean sampling procedures such as EPA Method 1669 or rational modifications to this method must be followed to ensure that quality data is generated. Many of the sampling programs managed and conducted by HydroQual have included clean sampling methods for ultra-low analytical method detection limits for constituents down to the nanogram per liter (ng/L) or part per trillion level (ppt).

HydroQual has over 20 years of proven experience in low level sampling. Most recently this has included PCB sampling to 65 ppt, pesticide sampling to 2 ppt and mercury sampling to 0.5 ppt.

### Critical Aspects of Low Level Sampling

- \* Established and proven clean practices
- \* Proper bottle sets and blank water
- \* Experienced staff
- \* Sampling site preparation
- \* Dedicated equipment
- \* Trip, field and equipment blanks
- \* Proper preparation and mobilization