

Cyanide Testing in Environmental Water: A Complete Guide from Core Chemistry to Automation Compliance

Testing for Cyanide remains one of the most heavily scrutinized compliance demands under North American and international regulatory frameworks, including the Clean Water Act, the Safe Drinking Water Act, and global ISO standards. Balancing low regulatory detection limits against highly variable matrices requires an acute understanding of the exact species being targeted—whether your facility monitors **Total Cyanide** in industrial wastewater, **Available Cyanide** in drinking water, or **Free Cyanide** in surface watersheds.

This webinar strips away the marketing noise to deliver a practical, educational deep dive into the complete analytical lifecycle of a cyanide sample. Designed for laboratory directors, analysts, and procurement decision-makers, this masterclass will guide you through the foundational science, mandatory preservation steps, and the operational realities of wet chemistry automation.

Key Technical Takeaways:

- **The Species Spectrum:** Mapping the chemical differences between free, weak acid dissociable (WAD), and ultra-stable heavy-metal complexed cyanides need to determine Total Cyanide.
- **The Matrix Challenge:** How sulfides, thiocyanate, nitrates, and active chlorine disinfectants trigger false positives or equipment failures on the various equipment options, and how to mitigate them.
- **EPA & ISO-Compliant Testing Options Explained:** A clear assessment of approved regulatory methods—comparing traditional manual distillation and membrane-separation techniques (Gas Diffusion with amperometric detection) directly against Method Kelada-01 (Automated Inline Flash Distillation and colorimetric detection).
- **Automation Trade-offs:** Evaluating how these distinct approved methods perform when automated on different hardware platforms, specifically Segmented Flow Analyzers (SFA), Flow Injection (FIA) and Discrete Analyzers (DA).
- **True Lab Productivity:** Quantifying the real-world impact of running each of these systems on your daily throughput.

Featured Presenter - Rachel Timmerman

Product & Applications Strategy Manager – North America, Skalar
15+ years in automated wet chemistry and EPA compliance





Q&A Guest Speak - Johan Menting


Customer Support Manager – North America, Skalar


35+ years in laboratory automation and continuous flow chemistry

Two Available Sessions

 **Tuesday, June 9** - 11 AM EST / 8 AM PST

 **Thursday, June 18** - 2 PM EST / 11 AM PST

 Duration: 45 mins presentation + 15-minute live Q&A

 Register here: <https://info.skalar.com/cyanide-testing-in-environmental-water-webinar-skalar>