

# Detection of Cyanotoxins in Austrian Fresh Water Lakes



## NEEDS / CHALLENGES

- Timely identification of potential risks associated with harmful cyanobacterial algal blooms.
- Quality assurance in cost effective detecting and identifying cyanotoxins in Austrian bathing waters.



## GSD SOLUTION

- Gold Standard Diagnostics offers a service which helps the customer throughout the entire process of the internal validation of the RapidScan LFA Reader and the corresponding Strip Test Kits.
- Gold Standard Diagnostics provided the following assistance to DWS:
  - fast and excellent customer support in case of method establishment and improval,
  - adjustment of technical devices and recalibration with the clients matrices,
  - certified reference standard solutions for internal validation of the RapidScan analysis method.



## RESULTS

- The RapidScan LFA setup enhances decision-making regarding human and animal safety through its user-friendly operation and rapid results. Compared to HPLC validation, we found excellent overall agreement in microcystins in Austrian lakes. Additionally, it expedites timely monitoring and enables prompt identification of issues, leading to proactive interventions. Overall, it improves operational efficiency and effectiveness in managing cyanobacterial occurrences, ensuring environmental and public health standards are upheld.

## DWS Hydro-Ökologie GmbH

Service provider in the fields of water ecology, water management and landscape planning.

**DWS** hydro-  
ökologie  
Technisches Büro für Gewässer-  
ökologie & Landschaftsplanung



**Judith Streimelweger,**  
Water analytics

Throughout the entirety of the project, the Gold Standard Diagnostics team demonstrated exemplary support in various facets, encompassing the prompt provision of test kits, method refinement, troubleshooting, and result validation.