



Harmful Algal Blooms and Algal Toxins

May 30, 2023 from 2 to 3 p.m. ET

**Optional Q&A session
from 3 to 3:30 p.m. ET**

A certificate of attendance will be offered for this webinar

HAB Technical Assistance in El Salvador

This presentation will provide an overview of technical assistance provided to the Government of El Salvador in 2020 due to a HAB that caused widespread taste and odor complaints. The presentation will demonstrate how lessons-learned from working with U.S. utilities on drinking water treatment optimization for HABs were leveraged to assist international partners.

Presenter: Tom Waters, P.E.



Tom is an environmental engineer with EPA's Office of Groundwater and Drinking Water. His work focuses on EPA's drinking water optimization program, providing technical assistance to primacy agencies and water systems, with a particular focus on water treatment for cyanobacteria and their associated cyanotoxins, membrane treatment, and distribution system optimization. Tom is a licensed professional engineer in Ohio with 15 years of experience in drinking water treatment and distribution.

HAB Dynamics as Determined by Nucleic Acid Based Techniques

This presentation will focus on the detection and quantification of cyanobacterial groups and cyanotoxin genes implicated in HABs. Results of next generation sequence analysis and qPCR/RT-qPCR will be discussed, along with monitoring functional genes to detect cyanobacteria.

Presenter: Jorge Santo Domingo, Ph.D.



Jorge is a research microbiologist with EPA's Office of Research and Development. For the past 25 years he has worked in molecular microbial ecology projects related to drinking water, wastewater, recreational waters, fecal pollution, antibiotic resistance, biosolids, and cyanobacterial blooms. Jorge was one of 65 fellows elected to the

American Academy of Microbiology Class of 2022. Jorge has an M.S. in biology from University of Puerto Rico and a Ph.D. in microbiology from Michigan State University.

Registration: us02web.zoom.us/webinar/register/WN_vAPI-iFpQ8y5--iOVil9Pg

Who should attend?

State, territory, and tribal personnel responsible for drinking water regulations compliance and treatment technologies permitting. Water system operators, technical assistance providers, local government personnel, and others may also benefit from attending.

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This webinar is part of EPA's Monthly Small Drinking Water Systems Webinar Series. A drinking water focused webinar will typically be held every month.

epa.gov/water-research/small-drinking-water-systems-webinar-series

