

Water Quality Modeling Basics and Beyond

About the Water Quality Modeling Basics and Beyond Webinar Series

EPA's Water Quality Modeling Workgroup is hosting a series of webinars to help water quality professionals better understand surface water quality modeling and how models can be used to solve common problems that face water quality regulators. The webinars are focused on modeling as it applies to the Total Maximum Daily Load (TMDL), Standards, and Water Quality Permitting Programs, but they are applicable to a wide range of audiences. These two hour webinars cover everything from modeling basics (e.g., model setup and calibration) to applied water quality modeling of different pollutants. Webinars are recorded and archived on EPA's website at <https://www.epa.gov/waterdata/surface-water-quality-modeling-training>.

Introduction to CE-QUAL-W2

This webinar will introduce CE-QUAL-W2, a 2-dimensional hydrodynamic and water quality model that has been applied to a wide range of water quality problems in rivers, lakes, reservoirs and estuaries. The model provides time-varying simulation of conventional water quality parameters including temperature, nutrients, algae, dissolved oxygen, pH, and sediment. Originally created by the Corps of Engineers, the current release was developed under supervision of Dr. Scott Wells at Portland State University. Topics to be addressed during this webinar: W2's basic functionality and application, limitations of W2, typical applications, development efforts, case examples (stratified reservoirs, river system with riffles and stratified pools), and 2 example problems.

Speaker: Dr. Scott Wells, Portland State University

November 15, 2018

Eastern: 1–3 pm | Central: 12–2 pm | Mountain: 11–1 pm | Pacific: 10 am–12 pm | Alaska: 9 am–11 am

Sponsored By: EPA Water Quality Modeling Workgroup

Target Audience

The target audience is Clean Water Act (CWA) water quality regulators in programs such as TMDLs, monitoring, wetlands, standards, nonpoint sources, permitting, and assessment. The Webinar content assumes that audience members have an understanding of basic hydrology and water quality principles. The Webinars are open to everyone and will be relevant to anyone conducting water quality investigations.

Registration: You must register in advance to participate in this free Webcast. Please register at: https://epawebconferencing.acms.com/cequalw2_wqm/event/registration.html. For more information contact Arndt Gossel (gossel.arndt@epa.gov). Please be sure to [view system requirements](#) prior to the webcast.

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