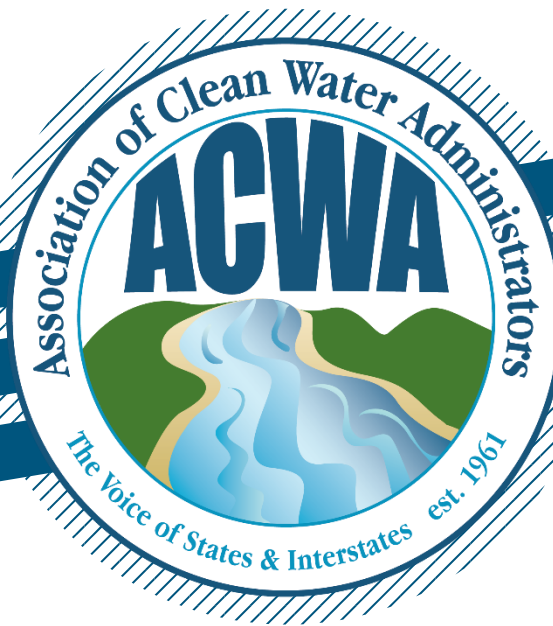


*Association of Clean Water Administrators*

# **2024 Modeling Workshop**

**September 16 - 20, 2024**



This Water Quality Modeling Workshop is a national meeting organized by ACWA, in partnership with USEPA for state program managers and staff involved in water quality modeling, as well as for both Regional and Headquarters-based U.S. Environmental Protection Agency managers and staff.

# MONDAY, SEPTEMBER 16

12:00 – 1:00 PM ET	Welcome and Registration
1:00 – 5:00 PM ET	Full Group Plenary
3:30– 3:45 PM ET	Break

# TUESDAY, SEPTEMBER 17

9:00 – 9:30 AM ET	Introductions and attendee interests Overview of the week, review of prerequisites
9:30 – 10:15 AM ET	Modeling 101 (Lightening presentation and questions)
10:15 – 10:30 AM ET	Break
10:30 – 11:00 AM ET	Project Planning - Project planning overview - Types of projects requiring models - Contracting: SOW, deliverables * Real world example: Introduction to example WA project
11:00 – 12:00 PM ET	QAPPs - Problem formulation - Model selection - Model scoping *Interactive: QAPP investigation
12:00 – 1:15 PM ET	Lunch (on your own)
1:15 – 2:00 PM ET	Introduction to QUAL2Kw  *Interactive: Guided Walk through the example model
2:00–3:30 PM ET	- Data Compilation - Common sources, spatial and temporal resolution for model types) - Data systems - Incorporating data into model - Addressing data gaps *Interactive: Comparing data and model needs (steady state vs. dynamic)
3:30 – 3:45 PM ET	Break
3:45 – 5:00 PM ET	Full Group Plenary
6:00 – 8:00 PM ET	Informal Networking Event  Reading Terminal Market - 1136 Arch St, Philadelphia, PA 19107

## WEDNESDAY, SEPTEMBER 18

9:00 – 9:30 AM ET	Recap and questions from Tuesday
9:30 – 10:15 AM ET	Model Configuration <ul style="list-style-type: none"><li>- Channel representation</li><li>- Grid resolution and extent</li><li>- Boundary conditions</li><li>- Parameters</li></ul>
10:15 – 10:30 AM ET	Break
10:30 – 11:30 AM ET	Interactive: QUAL2Kw model setup
11:30 – 12:00 PM ET	<ul style="list-style-type: none"><li>- Model Calibration</li><li>- Selecting parameters to calibrate</li><li>- Process and evaluation</li><li>- Sensitivity analyses</li></ul>
12:00 – 1:15 PM ET	Lunch (on your own)
1:15 – 2:15 PM ET	Interactive: Work through QUAL2Kw calibration
2:00 – 3:30 PM ET	Model Evaluation <ul style="list-style-type: none"><li>- Post-processing and visualization</li><li>- Quantitative vs. qualitative examples</li><li>- Error statistics</li></ul> <p>*Interactive: Post-processing, visualization, and error statistics</p>
3:30 – 3:45 PM ET	Break
3:45 – 5:00 PM ET	Full Group Plenary
6:00 – 8:00 PM ET	Informal Networking Event

Harp & Crown - 1525 Sansom St, Philadelphia, PA 19102

## THURSDAY, SEPTEMBER 19

9:00 – 9:30 AM ET	Recap and questions from Tuesday/Wednesday
9:30 – 10:00 AM ET	Model Acceptance <ul style="list-style-type: none"><li>- Acceptance process</li><li>- Marking acceptance</li></ul>
10:00 – 10:30 AM ET	Model Report <ul style="list-style-type: none"><li>- QAPPs and modeling reports</li><li>- Contents</li><li>- Review components</li></ul>
10:30 – 10:45 AM ET	Break

10:45 – 12:00 PM ET

Interactive: Guided tour through modeling report  
Breakouts: Identify questions or issues with modeling report

12:00 – 1:15 PM ET

Lunch (on your own)

1:15 – 3:30 PM ET

Scenarios and decision making  
\*Interactive: Review example project scenarios; Create your own QUAL2Kw scenarios

3:30 – 3:45 PM ET

Break

3:45 – 5:00 PM ET

Full Group Plenary

## FRIDAY, SEPTEMBER 20

9:00 – 9:45 AM ET

- Public Process
- Modeling Defensibility and communication

9:45 – 10:45 AM ET

- Recap and questions from the week
- Wrap-up and resources

10:45 – 11:00 AM ET

Break

11:00 – 12:00 PM ET

Workshop Wrap-Up