

Development of Quality Assurance Recommendations for the *Ceriodaphnia dubia* (*C. dubia*) Toxicity Test

Resources Document

January 2, 2024

Resources on conducting the *C. dubia* test method and evaluating WET¹ test data

- Expert Science Panel's [Ceriodaphnia dubia Quality Assurance Guidance Recommendations Technical Report](#)
- State Water Board and USEPA² Staff Workshop modules for ELAP³-accredited laboratories on best practices for conducting the *Ceriodaphnia dubia* short-term chronic toxicity test (September 2021) – Available upon request
- USEPA training resources
 - [C. dubia survival and reproduction toxicity test training video](#)
 - [C. dubia survival and reproduction toxicity test training supplemental video training guide](#)
 - [NPDES⁴ WET testing training modules](#)
 - [NPDES WET analysis spreadsheet](#)
 - [Method Guidance and Recommendations for WET Testing \(40 CFR Part 136\)](#)
- Other WET testing trainings
 - [The NELAC Institute \(TNI\) WET testing – Data Interpretation Training](#)
 - [The NELAC Institute \(TNI\) WET testing – Understanding WET Testing](#)
- Other state's toxicity training resources
 - State of Washington's Department of Ecology [WET Testing Guidance and Test Review Criteria](#)
 - State of Pennsylvania's Department of Environmental Protection [WET Standard Operating Procedure \(SOP\)](#)
- CASA webinar: Lessons from the 2023 Cerio Study (December 2023)
 - Part 1: [Introduction, Study Results, and Panel Discussion on Best Practices for Labs \(first hour\)](#)
 - Part 2: [Panel Discussion on Report Recommendations, Performance Metrics, and Next Steps for 2024 \(second hour\)](#)

Resources on assessing laboratory performance

- USEPA documents
 - Recommendations for Laboratories Analyzing Toxicity Data Using the Test of Significant Toxicity (TST) Statistical Approach in the NPDES Program – Available upon request
 - [National Pollutant Discharge Elimination System Test of Significant Toxicity Technical Document](#) (2010)
 - [National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document](#) (2010)

¹ WET: whole effluent toxicity

² USEPA: United States Environmental Protection Agency

³ ELAP: Environmental Laboratory Accreditation Program

⁴ NPDES: National Pollutant Discharge Elimination System

- [Understand and Accounting for Method Variability in Whole Effluent Toxicity Applications Under the National Pollutant Discharge Elimination System Program \(2000\)](#)
- [Comparison of false-positive rates of 2 hypothesis-test approaches in relation to laboratory toxicity test performance \(Fox et al. 2019\)](#)
- [Toxicity Provisions Staff Report – Appendix J. Evaluating Laboratory Performance with the Chronic *Ceriodaphnia dubia* Reproduction Toxicity Test](#)