

## Water Quality Goals

### Course Agenda

- Video Part 1 {
  - 1) Basis and form of water quality standards
    - a) Porter-Cologne Act – legislative declarations
    - b) Definitions of water quality standards, water quality control, pollution, and nuisance
    - c) Water quality standards in California
      - i) Beneficial uses
      - ii) Water quality objectives – numeric and narrative
    - d) State Water Board Resolution No. 88-63, “Sources of Drinking Water” Policy
    - e) Federal promulgated standards
      - i) National Toxics Rule
      - ii) California Toxics Rule
      - iii) State Implementation Plan
    - f) Implementation plans
      - i) Clean Water Act requires numeric translator procedures for narrative standards
      - ii) California examples of numeric translator procedures
- Video Part 2 {
  - 2) Selecting assessment thresholds to implement water quality standards
    - a) Use of numeric thresholds to implement narrative water quality objectives
    - b) Sources of numerical thresholds
      - i) Chemical constituents objective
      - ii) Toxicity objective – human health and aquatic life
      - iii) Tastes and odors objective
    - c) Toxicology basics
      - i) Dose-response relationships
      - ii) Threshold versus non-threshold chemicals
      - iii) USEPA weight of evidence classes for cancer risk
      - iv) Calculating water quality numeric thresholds from health-based information
      - v) Routes of Exposure
    - d) Terminology review
- Video Part 3 {
  - 3) Water Quality Goals
    - a) *A Compilation of Water Quality Goals* staff report
    - b) Water Quality Goals online
      - i) Demonstration of intranet database and related information
  - 4) Assessment threshold selection algorithms
    - a) Guiding principles
    - b) Algorithm for groundwater
    - c) Algorithm for inland surface waters
    - d) Algorithm for enclosed bays and estuaries
    - e) Algorithm for ocean waters
    - f) Assessment threshold table
- Video Part 4 {
  - 5) Example of selecting assessment thresholds
  - 6) Analytical quantitation limits
  - 7) Additive toxicity criterion for multiple constituents
  - 8) State Water Board Resolution No. 68-16, “Antidegradation” Policy
    - a) Appropriate range of water quality to protect existing and future beneficial uses