

CWEMF's

**Ammonia/Nutrient Issues and
Regulatory Oversight in the
Delta**

Technical Briefing #2

October 28, 2011



California Water and Environmental Modeling Forum
Promoting Excellence and Consensus in Water and Environmental Modeling

Acknowledgements:

- State Board staff – for helping to organize this venue
- Speakers – for donating their time and energy
 - Questions for speakers at the end of their presentations, or, if time after final speaker



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CWEMF's Mission

- The California Water and Environmental Modeling Forum is a non-profit, non-partisan organization whose mission is to increase the usefulness of models for analyzing California's water-related problems. The CWEMF, which was formed in 1994, carries out this mission by:
 - facilitating an open exchange of information on California water issues;
 - resolving technical disagreements in a non-adversarial setting; and
 - ensuring that technical work continues to take into account the needs of stakeholders and decision makers



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CWEMF's Organization

- Website: <http://cwemf.org/>
- Executive Director – Elaine Archibald
- Officers:
 - Convener: Marianne Guerin, Resource Management Associates
 - Vice-Convener: Ben Bray, EBMUD
 - Secretary: George Nichol, General Member
 - Treasurer: Stacy Tanaka, Watercourse Engineering



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CWEMF Technical Briefings

- Historically, CWEMF has held:
 - Technical workshops
 - Annual meeting
- Budget problems (State and CWEMF) provided impetus to consider new, shorter format
- Aim of CWEMF's Technical Briefing Series is educational, presenting members and stakeholders background and factual information on timely issues in a non-partisan atmosphere



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“Ammonia” Briefing

- Briefings genesis – small group of CWEMF members met to brainstorm ways to reinvigorate workshops
- IDEA – focus on controversial issues where members would appreciate “big picture” information
- Organizer opted for areas of personal involvement
- Dealing with controversy:
 - Everyone has bias – speakers have been asked to disclose
 - Choosing speakers – Chosen from personal knowledge and involvement in the topic, given the theme



Agenda

Ammonia in the Delta, and how the State Board got involved

Mark Gowdy, SWRCB

Data collection, analysis and findings on the “Ammonia issue”

Chris Foe, CVRWQCB

Conceptual model of ammonium utilization at the base of the Delta food web

Richard Dugdale, SFSU, Romberg Tiburon Center

Isotopic models, DSM2 QUAL and ammonia/nutrient dynamics in the Delta

Megan Young, USGS

Upstream sources of ammonia and nutrient dynamics in the watersheds

Carl Chen, Systech Engineering

Wrap-Up – Questionnaire and Suggestions, Future CWEMF activities

Marianne Guerin, CWEMF