

DWR Delta Modeling Section DSM2 Update

Tara Smith

October 30, 2008

DSM2 Related Activities

- **Support for Various Programs**
- **Develop and Expand Features of Decision Support Tools**
- **Hiring, Developing and Retaining Skilled Staff**

Support for Various Programs

- Calibration/Validation
- DICU
- Wanger Salmon Lawsuit
 - Impacts of exports on flows/velocities in North Delta
- Operations Criteria and Plan
 - Hydrodynamic Simulations
 - Particle Tracking Simulations – Smelt
 - Potential Entrainment Index Calculator

Support for Various Programs (cont)

- Two Gate Analysis
 - PTM
 - Flows and stages in South Delta
 - Flood flow impacts
- Franks Tract/Three Mile Slough
- Municipal Water Quality Investigation Program
 - Monthly Historical Updates (EC, DOC, Finger Print)
 - Aqueduct Extension

Support for Various Programs (cont)

- South Delta Temporary Barriers
- South Delta Water Quality Standards
- Los Vaqueros Expansion
- Temperature Modeling (upcoming)
- Pelagic Organism Decline
 - Comparison of DSM2 to UNTRIM and RMA (upcoming)
- Climate Change
 - Ranges of Sea Level Rise

Develop and Expand Features of Decision Support Tools

- DSM2 Version 7 – Change of Direction
 - Keep Features such as operating rules and gate development
 - Move away from Database
- Further Development of Potential Entrainment Index Calculator

Hiring, Developing and Retaining Skilled Staff

- New Staff
 - Kijin Nam
 - Lianwu Liu