

# DELTA WATER QUALITY ACTIONS

## 1. Water Treatment

*Elaine Archibald - California Urban Water Agencies*

*CALFED Water Quality Action* - Improve treated drinking water quality parameters of concern (including reduction in formation of disinfection by-products) by providing incentives for the addition of enhanced coagulation, ozone, granular activated carbon filtration and/or membrane filtration facilities to the water systems treating water from the Delta.

*CALFED Water Quality Action* - Improve source water quality parameters of concern at domestic water supply intakes, as identified in the geographic scope, by relocating water supply intakes to areas that are not influenced by those discharges.

## 2. Agricultural Drainage

*Dan Nelson - San Luis & Delta-Mendota Water Authority*

*CALFED Water Quality Action* - Reduce the loadings of water quality parameters of concern entering the Delta and San Joaquin tributaries from San Joaquin Valley agricultural sub-surface drainage by concentration and disposal in evaporation ponds; and/or treatment by reverse osmosis, or by other means.

*CALFED Water Quality Action* - Reduce the loadings of water quality parameters of concern entering the Delta by treating agricultural surface drainage and/or Delta agricultural sub-surface drainage in constructed wetlands or by other means.

*CALFED Water Quality Action* - Implement additional agricultural source control for water quality parameters of concern found in agricultural surface and sub-surface drainage. Implementation may include: incentives and/or enforcement of existing regulations; incentives for pesticide users to increase implementation of best management practices (BMPs) including integrated pest management (IPM); fallowing or retirement of land that is a major source of water quality parameters of concern (i.e., landowner participation should be voluntary and by compensated purchase or lease payment); and improved source irrigation water quality in sub-surface drainage areas.

### 3. Pesticide Source Control

*Steve Murrill - S.D. Murrill & Co.*

*CALFED Water Quality Action* - Implement additional agricultural source control for water quality parameters of concern found in agricultural surface and sub-surface drainage. **Implementation may include: incentives and/or enforcement of existing regulations; incentives for pesticide users to increase implementation of best management practices (BMPs) including integrated pest management (IPM);** fallowing or retirement of land that is a major source of water quality parameters of concern (i.e., landowner participation should be voluntary and by compensated purchase or lease payment); and improved source irrigation water quality in sub-surface drainage areas.

*CALFED Water Quality Action* - Reduce urban and industrial water quality parameters of concern loadings to the Delta and its tributaries through enforcement of existing source control regulations or provision of incentives for additional source control of urban and industrial runoff. **Examples of incentives include:** provision of rebates on construction permit fees when erosion control measures have been applied; **provision of incentives for pesticide users to increase implementation of best management practices (BMPs) including integrated pest management (IPM);** and better planning of new developments (e.g., design of storm drainage systems that target maximum infiltration of stormwater into the ground or on-site or regional stormwater sedimentation facilities that detain the majority of stormwater for at least 8 hours, etc.).

### 4. Urban and Industrial Runoff

*Tom Mumley - San Francisco Regional Water Quality Control Board*

*CALFED Water Quality Action* - Reduce urban and industrial water quality parameters of concern loadings to the Delta and its tributaries through enforcement of existing source control regulations or provision of incentives for additional source control of urban and industrial runoff. Examples of incentives include: provision of rebates on construction permit fees when erosion control measures have been applied; provision of incentives for pesticide users to increase implementation of best management practices (BMPs) including integrated pest management (IPM); and better planning of new developments (e.g., design of storm drainage systems that target maximum infiltration of

stormwater into the ground or on-site or regional stormwater sedimentation facilities that detain the majority of stormwater for at least 8 hours, etc.).

*CALFED Water Quality Action* - Reduce urban and industrial water quality parameters of concern loadings to the Delta and its tributaries by detention and strategic release of 20 to 30 percent of urban runoff water. Action would involve retrofitting existing urban and industrial areas with detention basins at the outlets of drainage basins contributing largest loadings of parameters of concern.

## **5. Boat Discharges**

*Joan Patten - San Francisco Estuary Project*

*CALFED Water Quality Action* - Control discharges of domestic wastes from boats within the Delta and Delta tributaries by more extensive enforcement of existing regulations.

## **6. Wastewater Discharges**

*Glen Birdzell - City of Stockton, Municipal Utilities*

*CALFED Water Quality Action* - Reduce point source water quality parameters of concern loadings to the Delta and its tributaries through cost effective control of industrial and municipal wastewater discharges. Methods may include incentives for reclamation and reuse and/or treatment of a portion of upstream municipal wastewater effluent in wetlands.

## **7. Mine Drainage Remediation - Mercury**

*Darrel Slotton - UC Davis*

*CALFED Water Quality Action* - Reduce metal loadings (e.g., cadmium, copper, mercury and zinc) to the Delta and its tributaries by implementation of moderate on-site mine drainage remediation measures at inactive and abandoned mine sites.