### MERCURY OFFSET FEASIBILITY STUDY FOR THE SACRAMENTO RIVER WATERSHED

Vicki Fry, P.E. Sacramento Regional County Sanitation District

> Stephen McCord, Ph.D., P.E. Larry Walker Associates

> > October 5<sup>th</sup>, 2004 WEFTEC®2004 New Orleans, Louisiana

### Acknowledgements

Active Stakeholders: Federal & State Regulators Public Land Managers Scientists NPDES Permittees Industry Representatives

**SRCSD Board of Directors** 

**Mercury Offset Consultant Team** 

### Overview

- Regulatory Framework
- Environmental Context
- Approach to Offset Feasibility





# <section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item>













Hydraulic monitors in operation, North Bloomfield mine, circa 1880s, Malakoff Diggings, Nevada County













### **Feasibility Study Approach**

- Identify mercury sources
- > Quantify source loads
- Identify and address site-specific issues









## Dominant Selection Criteria Sources – Where is it coming from? State of the Science – Can we control it? Data Availability – How much is enough?

### **Offset Ratios**

Account for differences between point of discharge and offset project loads

- Credit = Load Reduction
  - x Uncertainty
  - x Location
  - x Bioavailability







## SUMMARY

- Stakeholder Process
- Regulatory Framework
- Environmental Legacy
- Defining Feasibility



