

Quarterly Programmatic Report

Component Project Title: **Downstream Tidal Exchange in DWSC**
Component Project PI: Russ T. Brown
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CALFED Project: 01-N61- 06
Quarter Ending: September 30,2001

Deliverables

| <u>Deliverable</u> | <u>Due</u> | <u>% Completed</u> | <u>Date Completed</u> |
|------------------------------------|------------|--------------------|-----------------------|
| Task 1: Turner Cut Dye Study | 10/30/01 | 0% | |
| Task 2: Columbia Cut Dye Study | 10/30/01 | 0% | |
| Task 3 Evaluate Tidal Exchange | 5/30/02 | 4% | |
| 3.1 Evaluate for range of flows | | | |
| 3.2 Calibrate exchange in WQ Model | | | |

Narrative

Overall Project

Delays in contracting details with NFWF prevented any work on the project being completed this quarter. The dye studies will likely not be conducted until this winter or early spring (November 2001 through March 2002). Relatively low San Joaquin River flows are needed for the dye studies. The modeling evaluation with DSM2 and the data analysis of the previous tidal flow data collected by USGS and currently collected by DWR at the Rough and Ready monitoring station will be completed by December 31, 2001. This is a reversal of the planned sequence for the project tasks.

Task 1 Turner Cut Dye Study

No progress this quarter.

Task 2 Columbia Cut Dye Study

No progress this quarter.

Task 3 Evaluate Tidal Exchange and Calibrate WQ Model

A preliminary review of the USGS tidal flows in Turner Cut that were collected during dye studies for VAMP in 1997, 1998, and 1999 has begun. The current version of the DSM2 model has been downloaded and some initial simulations are being made to develop a modeling plan for evaluating the tidal exchange at Turner Cut and Columbia Cut for a range of SJR flows and Delta exports.

Fiscal Quarterly Report

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Total Estimated Cost: \$74,000

CALFED Funding: \$74,000
 Other Funding \$0
 Completion Date: 5/30/02

| | Quarterly Budget | | | Annual Budget | | |
|---|------------------|---------|---------|---------------|---------|----------|
| | Budget | Accrued | Balance | Budget | Accrued | Balance |
| Task 1: Turner Cut Dye Study | | | | \$28,775 | \$0 | \$28,775 |
| Task 2: Columbia Cut Dye Study | | | | \$20,925 | \$0 | \$20,925 |
| Task 3: Evaluate Tidal Exchange and Calibrate Model | | | | \$24,300 | \$1,000 | \$23,300 |
| Total Project | | | | \$74,000 | \$1,000 | \$73,000 |

Estimated Expenses for Next Quarter: \$20,000
 October \$10,000
 November \$5,000
 December \$5,000