

May 14, 1999

**To:** Board of Directors (Engineering and Operations Committee—Information)  
(Budget and Finance Committee—Information)

**From:** General Manager \_\_\_\_\_

**Submitted by:** Gary M. Snyder \_\_\_\_\_  
Chief Engineer

**Subject:** Monthly Project Status Report for the Inland Feeder Project – April 1999  
**[Any discussion of claims will be heard in closed session - Conference with  
Legal Counsel - Significant Exposure to Litigation (two matters) pursuant to  
Gov. Code Section 54956.9(b).]**

**RECOMMENDATION(S)**

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For information only.

**EXECUTIVE SUMMARY**

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This report summarizes progress and provides highlights for the Inland Feeder Project for the month ending April 1999.

**DETAILED REPORT**

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The Inland Feeder Project continues on schedule supporting the 2004 on-line date. The overall project budget remains at \$1.188 billion, with total expenditures through April 1999 at \$318.4 million. Available contingency remains unchanged at \$250.1 million in the month of April. Of the Project's seven reaches, five are in the construction phase, one (Mentone Pipeline) has been advertised for bids, and one (Highland Pipeline) is nearing completion of the design phase. Attachment A gives a summary of the Project's cost and schedule status.

Riverside Pipeline South construction is almost complete, with all pipe installed and 85 percent of the mortar lining completed. All work is expected to complete in mid-1999, approximately seven months ahead of schedule.

Progress on the Riverside Pipeline North also continues ahead of schedule with 7.9 of the 8.3 miles of pipe installed. Construction is nearly complete in the environmentally sensitive San Jacinto River area. Construction is expected to complete in late 1999.

Mining operations continued on the Arrowhead East Tunnel. A total of 120 feet was excavated this month, bringing the total completed to 8,008 feet. The tunnel boring machine (TBM) excavation has been stopped until late May 1999 while cutoff grouting is completed in the three significant groundwater inflow areas (See Attachment B for mining progress). Groundwater inflow has triggered additional measures to reduce the inflows consistent with provisions of the EIR. These measures are being evaluated in detail to determine the most appropriate method to employ upon resumption of mining operations. These could include intensification of pre-excitation grouting ahead of the TBM, additional cutoff grouting at significant groundwater inflow areas, gasketing of concrete lining segments, and contact grouting between the concrete segments and the rock surface of the tunnel. An assessment of these techniques, along with potential cost impacts, will be provided at the June 1999 Board.

Work continues on the Arrowhead West tunnel at the Waterman Canyon Portal site. Fabrication of the TBM components and construction of the muck conveyor system are proceeding on schedule to support mining in late 1999. Installation of the 3,700-foot pipeline through the Campus Crusade for Christ has been completed.

The Riverside Badlands Tunnel contractor has completed excavation of the Gilman Springs Portal. Further construction on the roll-over muck handling facility and TBM launching cradle continued on schedule to support mining in late 1999. Construction of the 22-foot diameter ventilation shafts in Live Oak and San Timoteo Canyons have been completed.

Construction bids for the Mentone Pipeline were opened in April; however, late modifications in the Biological Opinion deleting an adjacent sleeve for future utility crossings may require re-bidding of this segment of pipeline. Construction work is scheduled to begin in late 1999.

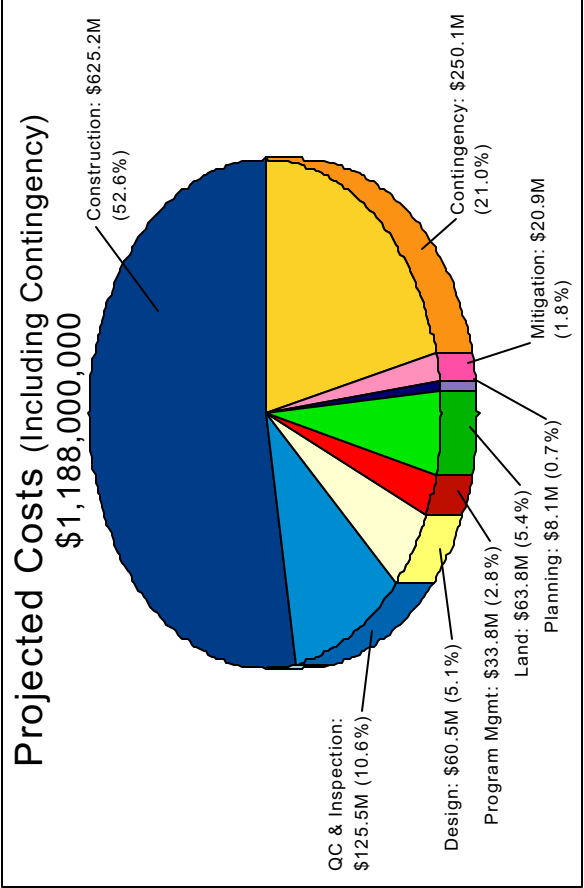
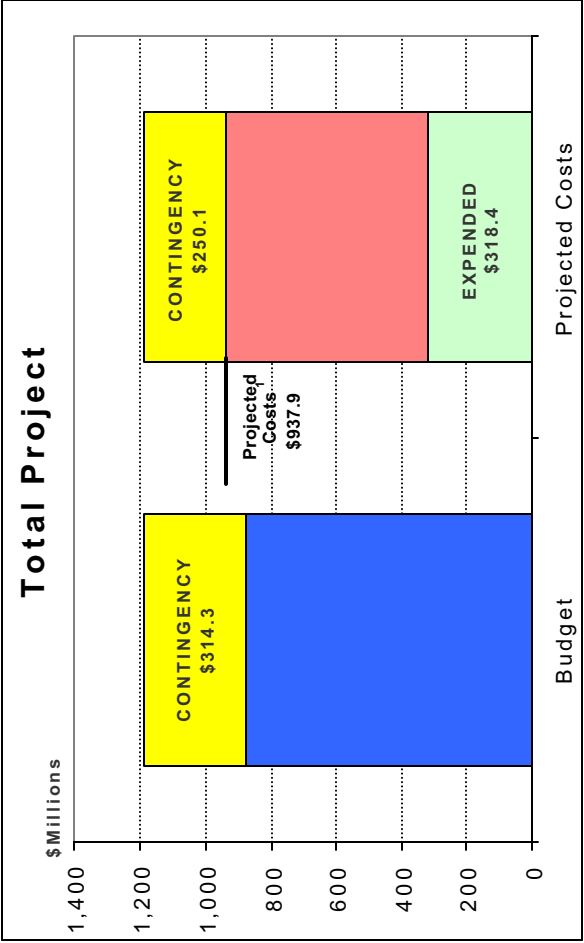
The Highland Pipeline design is approximately 86 percent complete and expected to advertise in late 1999.

BSB/DB/mg:rev6

**Attachment 10-8A**

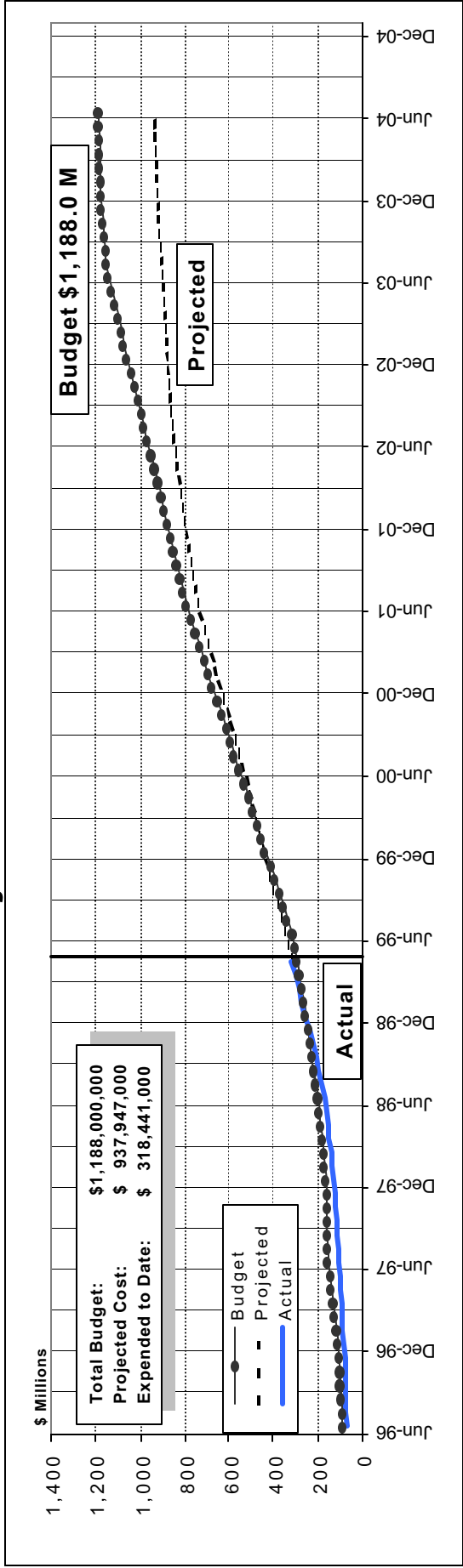
**Attachment 10-8B**

# Financial Summary



1. Based on knowledge of current field conditions.

# Project Cash Flow



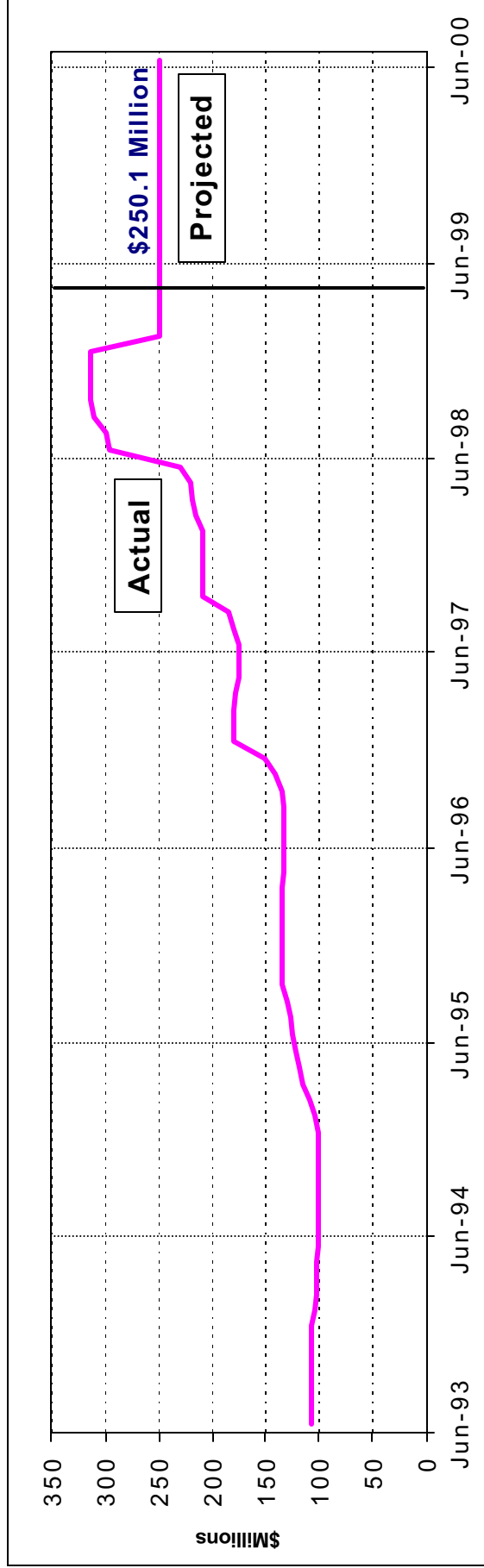
# Schedule Summary

DESCRIPTION	PROGRESS		COMPLETION DATE		COMMENTS
	PLANNED <sup>1</sup>	ACTUAL	CONTRACT <sup>2</sup>	FORECAST	
<i>Design</i>					
Highland Pipeline	98%	86%	Nov-98	Jun-99	
Mentone Pipeline	100%	100%	Complete	Complete	Bids opened - To be re-advertised based on Biological Opinion deletion of future utility sleeve installation.
<i>Construction</i>					
Arrowhead West Tunnel	21%	23%	Jun-02	Jun-02	TBM design and fabrication on-going. Preparation for pipeline segment in Devil Canyon in work.
Arrowhead East Tunnel	40%	36%	Jan-02	Jan-02	Mining has progressed to 8,008 feet. Began 6-8 weeks of cut-off grouting and TBM maintenance.
Mentone-RUSD Pipeline	100%	100%	Complete	Complete	Construction completed on schedule in February 1998.
Riverside Badlands Tunnel	15%	16%	Jul-03	Jul-03	Began work on TBM launching cradle at Gilman Springs Portal.
Riverside Pipeline North	54%	85%	May-00	Dec-99	Began fabrication of steel forms for pre-cast concrete segments. Completed 41,700 of the 44,000 feet.
Riverside Pipeline South	65%	98%	Feb-00	Jul-99	Pipe installation complete. Completed 85% of mortar lining operations.

1. Based on Contract Payments

2. Original Contract Duration + Approved Extensions

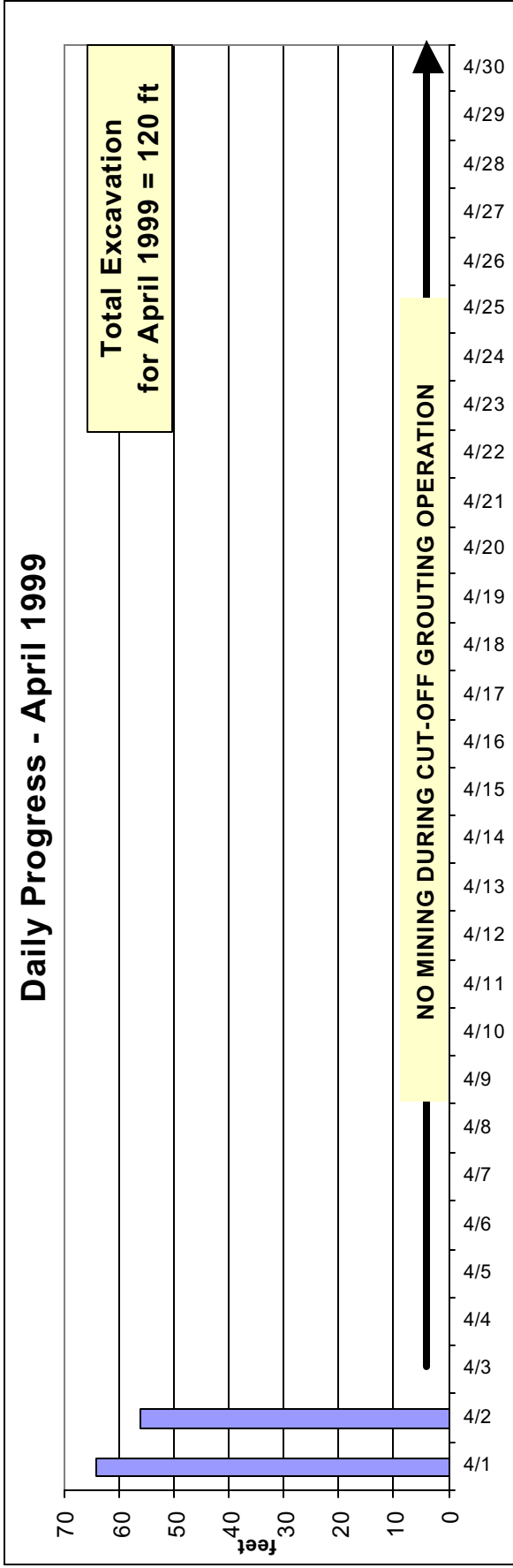
## Available Contingency



Engineering Division  
**ARROWHEAD EAST TUNNEL**

May 14, 1999

**Daily Progress - April 1999**



**Monthly Progress**

