



# ***SOUTH FEATHER WATER & POWER AGENCY***

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**TO:** Board of Directors

**FROM:** Matt Colwell, Water Division Manager

**DATE:** February 19, 2009

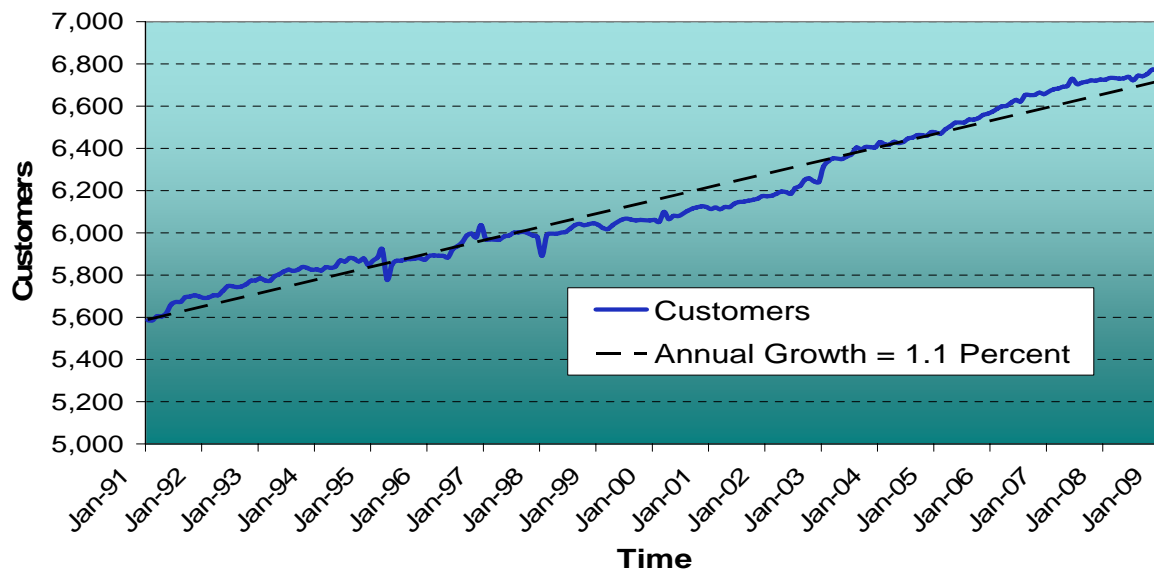
**RE:** General Information (regarding matters not scheduled on agenda)  
2/24/09 Board of Directors Meeting

## **Distribution Operations**

Water Division staff have been accomplishing water system maintenance and normal operations tasks. Ongoing projects include irrigation and domestic distribution system betterments, new service installations, and leak repairs.

A noticeable recent change is the lack of new service installations. No new services were installed in November, December and January. The economic situation is the obvious explanation. This unusual trend is not unprecedented but is still important information for future planning purposes. I have included the historical plot of Miners Ranch Water Treatment Plant customers since 1991. The MRTP customer base growth is 1.1% annually for the past 18 years. The recent trend is anticipated to continue considering the lack of new residential development.

## **MRTP Customer Growth**



## Woodleaf Creek Siphon Failure

The Woodleaf Creek siphon is repaired and operable. On January 28, 2009 the 42-inch diameter full-circle repair bands were installed and effectively repaired the broken section of the siphon (pictured at right). After some roadway excavation to allow for cement trucks to access the site, the pipeline was bedded in a pea-gravel slurry mix. A minor crack on the Techite pipe below the broken section was encased in a full circle concrete collar to restore structural integrity. Approximately 150 feet of the ditch upstream of the siphon was shotcrete lined to help with the excessive seepage problem. On February 5, water was delivered to the siphon (pictured at right) and has been in service intermittently since then. Additional work is still required around Young life's Woodleaf to place the site back to pre-project conditions.



## MRWTP Expansion Project

The Agency has received, reviewed and commented on the draft second technical memorandum produced by CDM that outlines and compares expansion alternatives. The planned expansion goal is to efficiently meet water quality and demand for the 25 to 30 year horizon. The draft report addresses the raw water supply, pre-treatment flocculation and sedimentation, disinfection, filtration, and sludge waste options.



It appears that a 50% plant expansion would be adequate for the planned growth period of 30 years. This would translate to an increase of 7.2 million gallons per day (MGD) and a plant maximum capacity of 21.5 MGD. Based on preliminary planning costs of approximately \$2 per gallon of expansion, estimated costs could be \$14-15 million.

Approximately 65% of the \$100,000 Phase 1 project costs have been expended to date. Copies of the final technical memorandum will be available at the next board meeting.

## Water Treatment Operations

MRTP operators completed the annual ID#2 storage reservoir hypolon liner cover inspection. Eight holes and a seam failure (pictured at above right) were repaired. The liner has reached the end of its estimated useful life and has



shown significant wear over the years. Review of the liner replacement alternatives will occur this year in preparation for the 2010 budget.



**Solar Plant Production**

The graph below provides a historical perspective of energy consumption compared to water production.

**Miners Ranch Water Treatment Plant  
Monthly Water Production VS: KWH Purchased**

