



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

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**TO: Board of Directors**

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

**DATE: March 24, 2005**

**RE: General Information (regarding matters not scheduled on agenda)**

### **Distribution Operations**

**Water Division staff** have been accomplishing water distribution system maintenance and betterment projects including new office construction, service installations, leak repairs, and irrigation and domestic distribution system betterments.

Figure 1. Shows the irrigation system improvements as a result of the bi-annual efforts to hand clean desperately needed sections of the irrigation system. Chuck Olsgard, Utility Worker, is doing an exceptional job directing and overseeing the temporary hired hand crew that will work throughout the Agency up the start of irrigation season.

**Development:** The Ridge (34 lot multi-phase subdivision) 1,000 feet of 12-inch water line is installed and tested. Residential construction is anticipated to begin soon. The multi-phase subdivision build out is estimated over 200 units.

Ishi Middle School 1,900 feet of 12-inch water line is installed and soon will be tested. Agency personnel will install an additional 1,600 feet of 12-inch line along Foothill Blvd to interconnect our distribution system to provide the needed fire flow. We have all the permits and materials and will start construction as soon as all the necessary fees and deposits are paid. Nearly \$85,000 is currently due to cover



estimated labor and material to complete the project.

**Leaks:** During the month of February, two service line leaks and one main line leak were repaired. 7 new meters and 7 backflow devices were installed.

**Water Treatment Operations**

**Solar Plant Production:**

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

**Water Plant Operations:**

MRTP filter backwash process has been improved in both water quality and cost savings to the Agency.

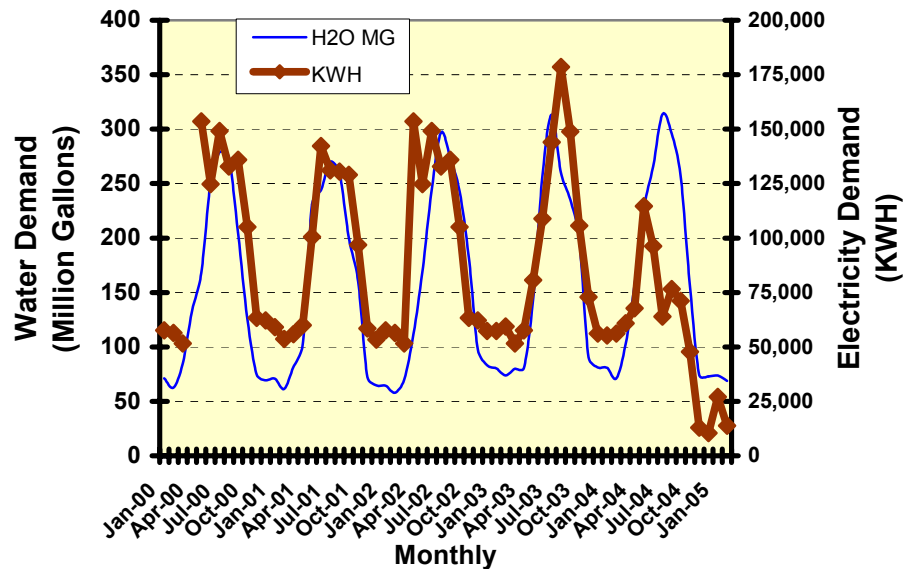
Instead of using hard-wired timers to complete a backwash sequence a SCADA program was written and electrical wiring was modified. This improvement provided the ability to change all backwash sequence timing from a computer screen.

The backwash sequence was tested and modified and has resulted in savings of approximately 70,000 gallons per was sequence. The savings in water for 2004 is estimated at 32 million gallons of treated water. This water was instead sold and represents an income to the Agency of approximately \$27,000. Accolades are appropriate to MRTP operators and to the Management and Board for the innovative in-house approach to Agency betterments.

**Water Plant Production:** On March 4th we stopped feeding bleach at our Community Line station. All bacteriological requirements were met for the Miners Ranch Treatment Plant and Bangor Treatment Plant.

**I have nothing further to report and I will gladly answer any questions ...when I return from Costa Rica. Thanks.**

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



Miners Ranch February 2005	
Total	68.9 Million Gallons
High	2.8 MGD
Low	1.8 MGD
Avg.	2.5 MGD
Bangor	
Total	0.18 Million Gallons
High	0.03 MGD
Low	0.00 MGD
Avg.	0.02 MGD
Community	
Total	1.3 Million Gallons
High	0.05 MGD
Low	0.04 MGD
Avg.	0.05 MGD