



PIPELINE

COMMUNITY SERVICES DISTRICT

A Monthly Newsletter

March is National...

- Nutrition Month
- Women's History Month
- National Reading Awareness Month
- Music in Our Schools Month

ULTRA PURE WATER IS HERE!

The new Water Treatment Plant 1 (WTP1) Upgrade and Expansion Project is nearing final acceptance and is now producing ultrapure potable water for the community. The project took approximately 18 months for completion at a cost of \$12m. The funding for the project was shared between Rancho Murieta Properties (through bond funding), Reynen & Bardis (through letter of credit funding), and the District (through reserve funding and internal borrowing).

The facilities that have produced potable water for the community have changed over the years to meet the community's needs. The original facility was built in the early 1970's and was located below Bass Lake. Its treatment consisted only of chlorination for disinfection. In 1978, a single media sand filtration plant capable of producing 1.5 million gallons per day (mgd) was constructed below the Chesbro Reservoir to meet the increased demands and more stringent treatment requirements. In 1987, a duplicate plant with 2.0 mgd capacity was constructed to meet further increases in community water demand. Both of these plants were retrofitted in 1994 to meet new treatment regulations and were converted to dual media filtration filters consisting of sand and anthracite coal.

Water demands are increasing and the District is anticipating additional community growth, including the construction of a new hotel and residential units. These demands will be met with the expansion and upgrade of WTP1. The new WTP1 uses new membrane treatment technology and provides an expanded treatment capacity of 4.0 mgd (the treatment capacity is expandable to 6.0 mgd when needed to meet future demands). The membrane treatment system was constructed as a retro fit of the old Plant 1 sedimentation basin and filter building. The existing Plant 2 water system will remain in operation as a backup facility with no changes.



For March 2016

Security @ 8:30 a.m.
March 4, 2016

Finance @ 9:00 a.m.
March 4, 2016

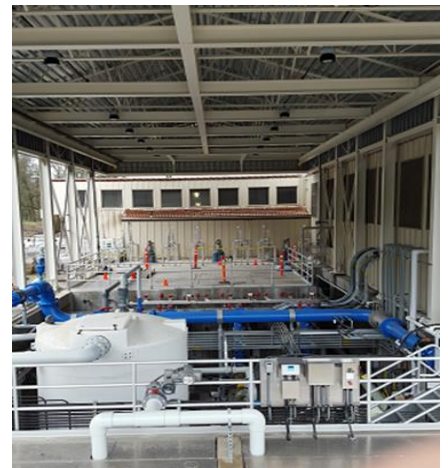
Improvements @ 9:30 a.m.
March 4, 2016

Communications @ 4:00 p.m.
March 7, 2016

Personnel @ 4:30 p.m.
March 7, 2016

**District Board Meeting
@ 5:00 p.m.**
March 16, 2016

***The public is invited
to attend.***



Example of before and after modifications to Water Treatment Plant #1



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The retrofit and expansion of WTP1 includes new power and backup power systems, influent piping through raw water auto-strainers, modifications for chemical storage and feeds, numerous instrumentation and control systems, and physical modifications to the building structure. The heart of the newly upgraded WTP1 is GE Zeeweed 1000 submerged ultrafiltration membranes with a nominal pore size of 0.02 micron. Contaminants are removed by physical straining (sieving) through a pore size that is so small it filters out most bacteria and viruses. A backwash water recovery system will be used to clarify waste from the backwash, maintenance, and recovery cleans of the membranes. It recycles clean water back to the head of the plant, with concentrated solids being sent to the sewer as waste. This allows for efficient use of available water. Modifications also include a newly expanded chlorine contact basin, two new treated-water booster pumps, and an enlargement of one of the drying beds. Along with the new treatment technology the facility received upgraded control systems which allow staff to remotely access the control and monitoring systems for troubleshooting system alarms. This new technology will help provide excellent quality water for the community both now and well into the future.

FEBRUARY BOARD MEETING HIGHLIGHTS

- ✚ Approved General Manager's Employment Agreement Amendment
- ✚ Approved Midge Fly Ad Hoc Committee Representative
- ✚ Received Security Department Annual Report
- ✚ Received Field Operations Department Annual Report
- ✚ Approved Estimated Costs for Special Inspection Services for Water Treatment Plant Expansion Project Paving
- ✚ Approved Proposal for Alarm Integrations
- ✚ Adopted Resolution R2016-02 Surplus District Equipment
- ✚ Discussed District Meeting Schedule
- ✚ Discussed Parks Committee
- ✚ Discussed Media Day
- ✚ Receive Water Treatment Plant Expansion Project Update

Daylight Saving Time begins Sunday, March 13, 2016.

Don't forget to set your clocks 1 hour ahead.

