

# the clarifier

commit. collaborate. construct.



*Pala Casino Spa and Resort Wastewater Treatment Plant*

## Entering The New Decade

After successfully meeting the challenges of 2009, Filanc is excited to pursue new opportunities in 2010. In the past year, we saw the successful completion of several landmark projects in Arizona and California. Our efforts did not go unnoticed. Once again Filanc was recognized by our peers both locally and nationally as a winner in a number of safety, design-build, and construction quality award programs.

Filanc is entering the new decade on a roll, having secured three new projects and with a full slate of promising opportunities. This year we will firmly establish our presence in northern California providing both major construction and repair and maintenance services, and will maintain and expand our presence in Arizona. Please enjoy this newsletter as we recount these accomplishments and outline our activities for the new year.

## Winning with Design-Build

Project Manager **Babaq Taj** had a busy year collecting trophies. So much so, he had to split his team to be in two places at once to accept them! In May the Pala Casino wastewater treatment plant (WWTP) was recognized as the Best Project in the Water Category under \$25 Million by the Western Pacific Region of the Design-Build Institute of America (DBIA). In November, he was in Washington, DC to collect DBIA's National Best Project award, while Project Engineers **Richard Gomez** and **Jeremy Metts** were home collecting an AGC Build San Diego award for the project.

The new facility was designed by our engineering partner HDR Engineering, Inc. and built to treat all wastewater generated within the reservation and all flows from the resort. Utilizing sequencing batch reactor (SBR) technology in concert with a microscreen disk filter, the new WWTP provides the capacity to treat 0.6 million gallons per day (MGD) average flow.

**“ After this partnership with FILANC we certainly see the benefit of contracting in this manner. It went as smooth as any I have ever been a party to. ”**

Garlon Banks, Vice President of Facilities and Property Development,  
Pala Casino Spa & Resort



City of Yuma, Aqua Viva Water Treatment Facility

## New Plant Brings Water of Life to Yuma

The fitting title of Aqua Viva or “Water of Life” was selected by the City of Yuma as the new name of its expanded East Mesa Water Treatment Plant (WTP). Serving as Construction Manager at Risk (CMAR), Filanc completed this state-of-the-art plant which now has the capacity to treat 24 MGD of surface water plus another 9 MGD of groundwater. Treatment is performed using immersed membrane filtration to remove bacteria, viruses and parasites. On-site chlorine dioxide generation is used for pre-oxidation and on-site sodium hypochlorite generation addresses disinfection. Project designers, Carollo Engineers, were awarded an American Council of Engineering Companies of Arizona Engineering Excellence Award in the water and wastewater category for their innovative design.



## Enough Water to Fill the Rose Bowl Every 72 Minutes

The Henry J. Mills Treatment Plant is one of five filtration plants in the Metropolitan Water District System and can clean 326 MGD—enough water to fill the Rose Bowl every 72 minutes.

Water filtered through the plant originates in northern California’s mountains, rivers and streams and arrives via the 444-mile California Aqueduct. In 2009, Filanc completed the construction of new chemical system upgrades to support this massive treatment capacity. Construction included a new chlorine containment gas facility, chemical metering pumps, evaporator room, and chlorine scrubber areas; a new fluorosilic acid unloading area, injection facility with roof canopy; and all appurtenant work. Filanc integrated the controls for the new processes into the existing plant SCADA system. Construction was coordinated, with zero interruptions, around existing facilities allowing this important plant to remain operational.



## Filanc Awarded 2010 National Construction Safety Excellence Award

Filanc proudly accepted the AGC’s National Construction Safety Excellence Award in March 2010. This prestigious award was announced at the AGC 91st Annual Convention in Orlando, Florida. “This makes us the safest contractor building water/wastewater treatment plants (working 300-700 hours) in the USA. It is because of the hard work and continued commitment to safety by all Filanc employees that this was possible,” says Filanc’s Safety Director, Dave Little.





The Dulzura Conduit Covers project at San Diego Barrett Reservoir



A conduit cover being maneuvered into place by helicopter provided a unique and valuable experience to the R&M crew.

## Repair & Maintenance Delivers

Filanc's Repair & Maintenance Division ended 2009 on a high note—literally. R&M's Dulzura Conduit Covers project for the City of San Diego was a design-build project to upgrade approximately 1,500 feet of conduit with paneled concrete covers. The project took place in the remote and environmentally sensitive area surrounding San Diego's Barrett Reservoir.

The site's topography included steep slopes, loose rocks and lacked adequate road access. When faced with these physical challenges, coupled with an environmentally sensitive habitat, R&M got creative. Filanc worked closely with design partner HDR Engineering and the City to develop an effective logistical plan to complete the project. Transportation of materials from the staging areas to the waypoints—not accessible by vehicle—was accomplished by a Sikorsky S-58T helicopter.

Working with the helicopter provided the R&M crew some unique training opportunities and valuable experience. The Dulzura project was completed successfully, on time and with zero accidents.

## R&M Upgrades San Diego's Three Water Treatment Plants

In 2010, Filanc's R&M Division will be actively working with HDR Engineering to design and construct fluoridation systems for all three of the City of San Diego's potable water treatment plants. This design-build project will help San Diego comply with California State Assembly Bill No. 733 which requires all public water systems with more than 10,000 service connections to fluoridate their drinking water. Work on the project will include furnishing and installing fluoridation bulk storage day tanks, yard piping, above grade piping, pumps, analyzers and meters, electrical service, instrumentation and controls. The \$2.5 million project is scheduled to be completed in December 2010.

### Filanc Opens A New Office

In February 2010, Filanc opened the doors to a new office location in the greater Sacramento area. This new location will support our northern California construction activities and will be home base for members of our Repair & Maintenance Division. For questions regarding repair and maintenance needs, please contact **Jeff Rangan** (jrangan@filanc.com). For all other construction needs, please contact **Gabe Rico** (grico@filanc.com).



Michelson Water Recycling Plant



F.E. Weymouth Water Treatment Plant



Hughson Wastewater Treatment Plant

## Filanc Repowers to Meet New Stringent Emission Requirements

In the past, construction equipment has been largely overlooked as a contributor to air pollution. But recently the California Air Resources Board (CARB) has focused on regulations to reduce noxious emissions from big-rig trucks and construction equipment believed to be responsible for 58 percent of the smog-forming emissions and nearly 80 percent of the cancer-causing emissions from mobile diesel sources.

Thanks to the diligence of **Matt Moyer**, our Manager of Equipment and Maintenance, Filanc is actively working on meeting CARB's new requirements for non-road diesel engines.

## New in 2010

To keep up with the growing demand for drinking water with a decreasing imported water supply, Irvine Ranch Water District (IRWD) has begun the Phase 2 expansion of their Michelson Water Recycling Plant. The expansion will increase the plant's capacity from 18 to 28 MGD and will enable IRWD to provide 80 percent of community parks, golf courses and school grounds enough water to provide landscape irrigation, which will save drinking water supplies for residents and businesses. Filanc began the \$87.5 million construction project in September 2009 and will be completed by July 2012.

Filanc is currently completing seismic upgrades for an inlet conduit at Metropolitan Water District's (MWD) F.E. Weymouth Water Treatment Plant that was originally built in 1939. Filanc will also build new rapid mix facilities, relocate return wash water piping and sulfuric acid feed piping, and install electrical duct banks from the planned switchgear area to the rapid mix area. When completed in 2011, the \$30 million project will deliver 520 MGD of blended water from the Colorado River Aqueduct and State Water Project to MWD's Central Pool distribution system.

Located in the heart of California's beautiful Central Valley and serving as the flagship project for Filanc's Northern California Division, the City of Hughson WWTP Upgrades and Expansion is well underway. The Notice to Proceed for this \$15.5M project was received in October 2009 and construction is expected to be complete by July 2011. Major project components currently underway include foundation work for the Oxidation Ditch and two Secondary Clarifiers, as well as underground piping.

## For Clarification:

[www.mwdh2o.com](http://www.mwdh2o.com)  
The Metropolitan Water District of Southern California

[www.carollo.com](http://www.carollo.com)  
Carollo Engineers

[www.hdrinc.com](http://www.hdrinc.com)  
HDR Engineering, Inc.

[www.dbia.com](http://www.dbia.com)  
Design-Build Institute of America

[www.sandiego.gov](http://www.sandiego.gov)  
The City of San Diego

[www.agc.org](http://www.agc.org)  
The Associated General Contractors of America

[www.yumaaz.gov](http://www.yumaaz.gov)  
City of Yuma

[www.arb.ca.gov](http://www.arb.ca.gov)  
California Air Resources Board

J.R. FILANC CONSTRUCTION COMPANY, INC.

740 North Andreasen Drive, Escondido, California 92029

**FILANC**