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Hi PWT Reps and Friends,

Welcome to our new monthly news bulletin. This was suggested by a few of you as a good way to let all our Reps and interested stakeholders know about some of the projects we are doing – particularly the more interesting and different applications of our technologies as well as other goings on at PWT. We will try to get one of these out every month or so and keep it brief, relevant and interesting.

So here we go.

PWT at WEFTEC

PWT will be Exhibiting at WEFTEC 08 in Chicago (Oct 19-22). Our Booth Number will be 33145. We will have on display a Volute Dewatering Press, a Cyclone and a Raked Bar Screen Module. We will also be debuting our Volute Thickener – A version of the Volute Dewatering Press re-designed to operate specifically as a sludge thickener.



PWT SAF Installed at Gold Village, YUBA Co., CA



SAF at Yuba Co. with Septic tank in foreground and control kiosk and secondary clarifier in background.

The first Submerged Aerated Filter (SAF) in the Americas had been installed to provide temporary treatment to a small plant that was not meeting its discharge requirements. PWT is currently undertaking monitoring of this unit and although only a few results have been attained and process performance has not been optimized, TSS and BOD of less than 10, Ammonia less than 0.5, and TN under 20 (down from 75) have been achieved.

These excellent results have prompted the county to seek to have the SAF approved as an alternate permanent treatment process to the Membrane Bio-Reactor (MBR) plant they were intending to install which would be at least twice as expensive as the SAF.

Need PWT Literature or would like more information about any of the stories in this bulletin?

Call Jen at 410-238-7977 or email at jeligh@pwtech.us.

Volute Dewatering Press installed at J LOHR Winery.

In a world first application of this technology, PWT installed a Volute Dewatering Press (VDP) Model ES 301 at J. Lohr Winery in Paso Robles, CA in June 2008. Prior to this installation the excess sludge from the aeration tanks where the plants wastewater is treated was thickened in a DAF. Following this the sludge was then dewatered in dewatering bins – a time consuming and messy process, unable to keep pace with the plants sludge generation, and producing a very wet cake.

The PWT scope of supply included the usual Velodyne polymer preparation system and a Penn Valley Double Disc Pump to feed sludge to the unit. In addition, with the agreement of J. Lohr, PWT in conjunction with Duperon Corporation supplied a “flexible” conveyor free of charge to be piloted in conjunction with the installation to help dispose of the dewatered cake. This conveyor is a very new technology and should it pass the current testing program, PWT believes it will be an excellent option for small treatment plants looking to deal with their dewatered solids.

Once the unit was installed a couple of days of testing were undertaken. Operating directly on the mixed liquor from the aeration lagoon which has a solids concentration of about 1%, results of up to 17% solids were achieved with a polymer dose of about 22 lbs per ton of dry solids which is significantly less than the chemical cost to operate the DAF.

As can be seen from the photo the solids are very dry and crumbly. The client is happy with the unit as it is saving them both a significant amount of labor and money.



ES301 Volute Dewatering Press installed at J. Lohr Winery (top) and dewatered solids from the press (bottom)