PROJECT PROFILE

Smith & Loveless Inc.

Major CA Brewer Sets Environmental Example with Water Recycling

ADDIGEST®

Application:	Brewery-CA	**Peak Flow:**	30,000 GPD (114 CMD)
Product:	**ADDIGEST®** Wastewater Treatment System	**Influent BOD:**	300-500 mg/L
		Effluent BOD:	30 mg/l
Requirements:	Water Reuse / Reclamation	**Dimensions:**	50'(L) X 28'(W) x 18'(H)

This Northern Californian brewer enjoys the status of being one of the ten largest micro-brewers in the United States, producing several hundred thousand barrels per year from its Northern California location. Driven by a philosophy that incorporates quality production with environmental responsibility, the brewer sets standards with its successful tasty ales and its noble environmental practices.

This was typified when the city proposed applying surcharges to the brewery for the high strength wastewater entering the city system. In response, the brewer chose to pretreat all of its wastewater on-site and reuse as much as possible, limiting the demand put upon the city system while maximizing many recycling benefits. In consultation with its engineer, the brewer designed a comprehensive treatment scheme that featured anaerobic treatment followed by a Smith & Loveless **ADDIGEST®** treatment system for aerobic polishing prior to reuse and discharge.

The entire on-site scheme handles up to 0.3 MGD with initial high-strength loadings of 6800 mg/L. The process-flexible **ADDIGEST®** design incorporates a single aeration zone (28' wide by 50' long by 18' high; volume of nearly 175,000 gal.) and three hopper-style clarifiers. The **ADDIGEST®** routinely polishes the anaerobic stream down to 30 mg/L BOD, allowing the water to be recycled onsite and reused for spray irrigation and other purposes around the facility. The rest of the water is discharged safely into the city sewer, actually helping to dilute the solids levels at the WWTP.