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dairyfield[®]
HELPING PROCESSORS MANAGE THE CHANGING INDUSTRY

PARTNERS IN PROGRESS

Trimming the Waste

World Water Works helps dairy processor enjoy tremendous savings with new treatment equipment.

With an inefficient wastewater treatment system going unused and escalating sewer surcharges of more than \$30,000 a month, Alpenrose Dairy had to find a better way to do business.

The Portland, Ore.-based processor of milk, ice cream, cottage cheese and sour cream had installed a wastewater treatment system 10 years earlier, but it was retired after several years of high operating costs because the carbon-steel system became corroded.

"We had 60,000-gallon tanks to put a day's run into. When we would discharge to the city, they were charging us extra charges. We had tried a couple different ways to solve the problems before World Water Works gave us a system," says Eric Trummel, Alpenrose maintenance manager.

Initially, Trummel did an Internet search to find vendors to help with the dairy's wastewater issues, and he found World Water Works, Elmsford, N.Y.

World Water Works offered its www/RESOURCE Dissolved Air Flotation system as a solution for Alpenrose to pretreat its wastewater. "Our wastewater treatment system works on ways to improve liquid/solid separation. We took advantage of newer research to make it cost effective," says Mark Fosshage, World Water Works president, explaining that design is

based on plant size, flow rates and concentration. "It's a fixed design that we scale to the plant."

Alpenrose renovated its existing wastewater treatment building to provide space for the new system, purchasing equalizing and sludge tanks. Tanks were built on site.

"We're basically a 65-acre farm in Portland and our wastewater treatment building sits 500 feet from the dairy. We had this building with old equipment and pedestals to jackhammer out. We had to break through the attic and put the tanks in what was our courtyard," says Trummel. "World Water Works gave us a good drawing to work from and we built it." The dairy's staff installed the equipment at the plant.

Equalization tanks designed to World Water Works specifications were installed, and the company provided the system and necessary components to treat the wastestream including feed pumps, chemical pumps, skid-mounted platform and touch-screen controls.

World Water Works' regional chemical partner, Wesmar, provided an efficient chemical program based on an analysis of Alpenrose's wastestream. The program worked without adjustment. Water is treated at a pH of about 5.5, which maximizes oil and grease removal. The polypropylene design assures sys-



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World Water Works helped Alpenrose Dairy reduce its wastewater costs by almost \$18,000 a month.

tem longevity in corrosive environments such as a dairy processing plant.

The process took about six months from purchase date to startup. The facility reduced its wastewater costs by almost \$18,000 a month, which includes sewer costs, chemistry and sludge hauling.

"Our system is very inexpensive to operate — the two selling points are that operational costs are low and the performance is highly efficient," says Fosshage. "The key is to get operational costs low. The more efficient the system, the better."

The dairy was pleased with the results, says Trummel, adding that he knew the new wastewater system would save money, but was shocked at just how much. "It's a pretty good chunk of money we're saving." — **World Water Works, 4 Vernon Lane, Elmsford, N.Y., 10523, phone: (914) 345-2556 or (800) 607-7873, fax: (914) 345-2558, e-mail: sales@worldwaterworks.com, Web site: www.worldwaterworks.com**