

# Fish Processor Meets Permit Levels with New Air Floatation Technology

## Challenge

A major United States salmon producer was threatened with enforcement action and fines by the state regulatory agency because it was exceeding its National Pollutant Discharge Elimination System (NPDES) permit levels for biological oxygen demand (BOD), fats, oils and grease (FOG) and total suspended solids (TSS). The wastewater treatment plant used one circular dissolved air floatation (DAF) unit for physical liquid-solids separation,

## Solution

GE Water & Process Technologies conducted a site survey and engineering audit to determine the best solution. Jar tests were performed to determine the type of chemical treatment that was needed, and samples were taken to verify the treatment's effectiveness. The system was modified for optimum control, the new chemical program implemented, and a continuous quality effluent monitor was installed.

## Results

The new treatment program enabled the plant to meet all NPDES permit levels and avoid any penalties. The total cost savings from not having to purchase new capital expense avoidance of US\$250,000.

## About GE Water & Process Technologies

Water & Process Technologies, a unit of GE Infrastructure, is a leading global supplier of water, wastewater and process systems solutions. Water & Process Technologies delivers customer value by improving performance and product quality and by reducing operating costs and extending equipment life through a broad range of products and services. These products and services are used to optimize total water/process system performance, safeguard customer assets from corrosion, fouling and scaling, and protect the environment through water and energy conservation. For more information on Water & Process Technologies, visit [gewater.com](http://gewater.com).

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