



Water Demulsifier Helps Oil Recycling Facility

Problem

An oil recycling facility in Georgia was seeking alternate disposal methods for the plants own oily water, and for wastewaters generated by a variety of industries. Regulatory pressures in the state have eliminated many hitherto viable options.

Solution

A water demulsifier developed for treating waste oil settled water, and for a wide spectrum of other effluent streams, was tested and found to be effective. ECA* 1350, with appropriate pH adjustment, was found to remove emulsified hydrocarbons, suspended solids and heavy metals, down to very low limits.

Results

The customer now treats oily wastewater streams by flowing through an oil-water separator to remove free oil. The water is then pumped to a settling tank while metering in ECA 1350 at 1-2 gallons per 1000 gallons, using the transfer pump for chemical mixing. Caustic soda is then added, either in-line or in the tank, and air-agitated to a final pH of 8.5-9.

After 10-15 hours, impurities settle to the bottom, and readily compact to less than 5% by volume.

The clean water, analyzing at less than 50 ppm oil & grease, is then sewerred.

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