

**MUNOX[®] SUCCESS
Wastewater Application
/ BOD-FOG Removal**

**Specialty
Chemical Manufacturer**

An Atlanta area specialty chemical manufacturer produces a wide variety of surfactants, as well as custom blended chemicals for the textile industry. Some of the compounds or precursors which might be found in their wastewater would include the following: Linear alcohols, polyglycol esters, sorbitol esters, amines, fatty acid esters, and a variety of ethoxylated compounds. The custom blended textile chemicals include polyethylene waxes and silicones.

Their wastewater treatment system consists of three 200,000-gallon equalization ponds, a 14,000 to 43,000-gallon per day ultra-filtration unit followed by a 200,000 gallon capacity aeration basin with a single 25 hp surface aerator. Wastewater flows from the aeration basin to a 43,000 gallon per day clarifier with final effluent passing to a POTW. Wastewater flow averages 15,000 to 20,000 gallons per day. The final equalization pond wastewater has a BOD of 2500 ppm and a fats, oils, and grease concentration of 400 ppm.

Prior to using Munox, the company experienced difficulty meeting effluent quality standards imposed for BOD and FOG concentrations.

Munox addition has improved the overall operating efficiency of the wastewater treatment system. BOD removal has been increased by 57%. More importantly, except for a period of three weeks when the ultra-filter apparatus was not operating, Munox addition has enabled the company to meet permit requirements for both BOD and FOG, 250 and 100 ppm, respectively.

The addition of Munox to the aeration basin has improved effluent quality substantially, thereby allowing better compliance with permit requirements.