



Industrial Laundry-EC

An ever increasing problem in certain areas, where the water collection basin is closed, is EC/TDS levels. Integrated Engineers performed some treatability testing with the untreated wastewater from an Industrial Laundry. The current treatment process uses lime and an anionic polymer to reduce the BOD, TSS and discharges to the local POTW. The facility manager gave the following information on current treatment: chemical costs are at \$0.43 per 1000 gallons; they process 130,000 to 140,000 gpd of wastewater; and paid \$31.00 per ton for sludge haul off, class, 2 non-hazardous. In addition, the city surcharges the facility at an average of \$6,000/month for water flow, BOD (averages 550 ppm) and TSS (averages 450 ppm). The facility was looking to reduce their discharge levels of EC/TDS as the city was requesting a 20% reduction from each of the industrial dischargers.

The treatment with Floccin 1106 and 1107 brought the treated water to a lower TSS than was being discharged. Samples were submitted for analytic results, which are shown below:

Analysis	Untreated	Current Discharge	Floccin 1106	Floccin 1107
BOD (ppm)	440	680	100	35
TSS (ppm)	330	770	140	47
Conductance (EC)	1,600	2,400	1,600	1,700

Based on the analytical results, the treatment with the Floccin 1107 showed very little increase in the EC level (untreated versus treated) and removed a lot more of the BOD and TSS. Based on the reduced levels of TSS and BOD, the facility could reduce their surcharges from \$6,000/month to an estimated \$2,000/month (charges for water volume is remain unchanged).