

Tuna Processing And Protein Recovery

The water from a tuna processing facility was treated for solids reduction, BOD reduction and recovery of the protein from the high protein rendering sludge for reuse as animal feed. The protein is very valuable for use in the animal food industry. Currently the facility has no process for recovery of the protein and 100% of the high protein rendering sludge is disposed of at the local landfill, costing the company about \$200,000 a year in sludge disposable fees without any ROI.



Integrated Engineers, Inc. performed treatability on the water as shown below. The dosage was quantified to be 4.17lbs of Floccin™ 1105 per 1,000 gallons treated. The water was then run through analyticals testing which the results are shown below.

Constituent	Untreated	Treated	% Reduction
Total Suspended Solids (TSS)	7,200 ppm	55 ppm	99%
Biochemical Oxygen Demand (BOD)	13,000 ppm	1,100 ppm	91%
Protein Recovery	0 ppm	12,000 ppm	7.5%