

Sand & Gravel Processing

The facility discharges to a marine sanctuary that has very strict discharge requirements. The facility is looking at an effective solution to reduce the effluent water turbidity. The discharge is at a rate of 30 gpm and is often out of compliance with solids in the water reported in the form of turbidity.



Effluent Retention Pond

Treatability:

The samples were tested using the Floccin J. The initial pH was 7.0 and the treated water was at a pH of 7.0. The sample required 0.45 grams/1,000 ml to form a good floc. This equates to 4 lbs/1,000 gallons treated or a dosage rate at 30 gpm of 7.2 lbs/hour (1,800 gph flow). The untreated and treated water results are shown below:

Constiuent	Untreated	Treated
Biochemical Oxygen Demand (BOD)	ND	ND
Chemical Oxygen Demand (COD)	16	21
Total Organic Carbon (TOC)	3.2	4.9
Total Suspended Solids (TSS)	120	ND

