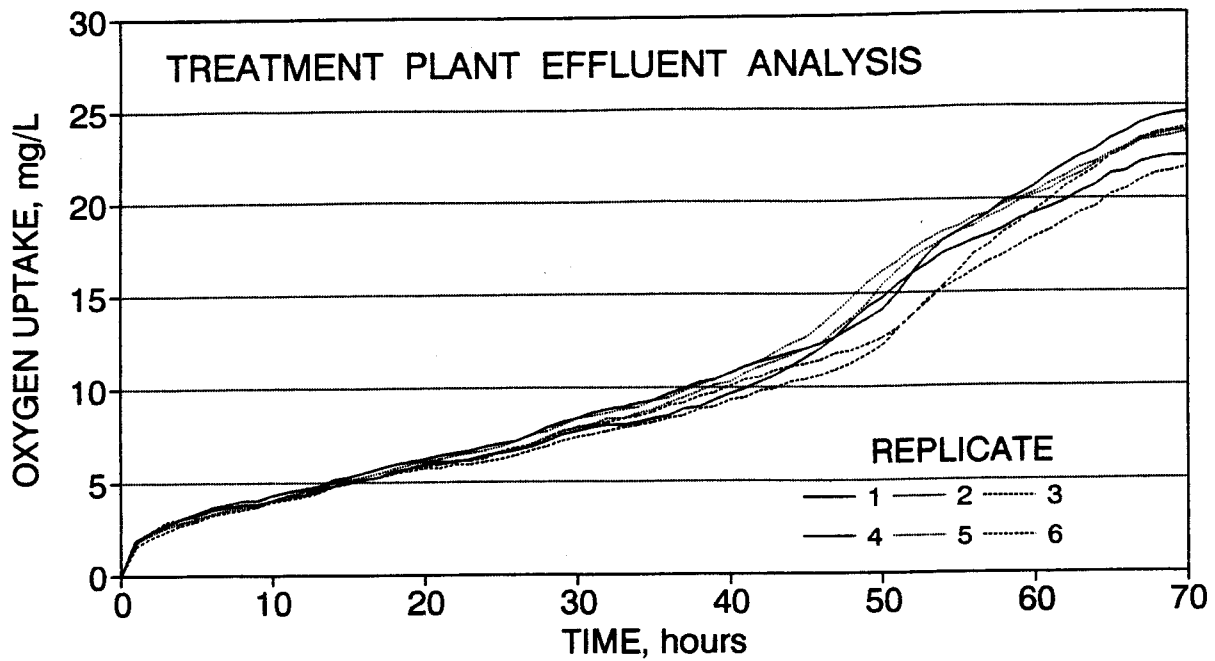


APPLICATION: MONITORING TREATMENT PLANT PERFORMANCE



Waste Type: Activated sludge process effluent

Objective: To measure the oxygen uptake characteristics of activated sludge effluent and to determine if nitrification would occur.

Test Setup: A number of replicate samples were placed in respective respirometer flasks along with nutrients, minerals, and buffers. No nitrification inhibitor was added. Oxygen uptake was measured over a three-day test period using a CHALLENGE AER-200 respirometer.

Analysis: The oxygen uptake was essentially the same in all test reactors. Nitrification seemed to begin after 48 hours in all reactors. The slight difference in the onset of nitrification is typical of this reaction.