Effective Operation and Management of Anaerobic-Anoxic-Oxic (A2/O) Process

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Abstract
This paper describes the relationship between PHA (Poly hydroxyl alkanoate) in activated sludge and phosphorus removal and how to calculate optimum influent load into oxic tanks of A2/O process.
From this report obtained, maintaining PHA concentration at the end of aerobic tank high is essential to stable phosphorus removal, and results shows optimum load of influent can make phosphorus removal stable. This optimum load can be calculated by nitrification rate and average retention time.

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