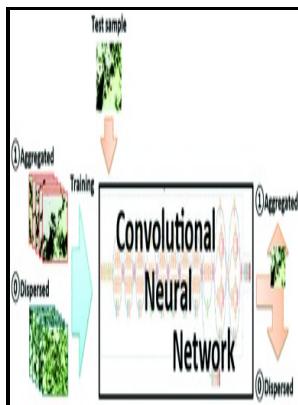


Factors affecting the settling of activated sludge flocs - an analysis.

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Notes: Thesis (M.A.Sc.) -- University of Toronto, 2003.

This edition was published in 2003



Filesize: 13.92 MB

Tags: #Relationship #between #floc #composition #and #flocculation #and #settling #properties #studied #at #a #full #scale #activated #sludge #plant

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The liquid flow through activated sludge flocs from full-scale conventional treatment plants was evaluated on the basis of the information obtained from settling tests. The permeability of flocs increased with an increase in the dynamic sludge age and decreased with an increase in the shear rate measured as the mean velocity gradient in the aeration tanks. These include any possible shut-off of the return-sludge flow, which would cause the secondary clarifier to fill up with solids and bacteria, dissolved oxygen and fresh food in the aeration tank to decrease.

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Studies performed at conditions similar to full-scale such as fluctuation in organic loading rate, hydrodynamic conditions, temperature, incoming particles, and feed water microorganisms need further investigations. Nocardia and Microthrix parvicella also occur at a longer sludge age.

The mechanisms of granulation of activated sludge in wastewater treatment, its optimization, and impact on effluent quality

Enhancement in biological treatment of pulping wastewater by fly ash. If we returned all the microbes to the aeration tank, there wouldn't be enough air for them all, so we get rid of some of the microbes. Cite this chapter as: Seviour R.

Advection Transport in Activated Sludge Flocs on JSTOR

In earlier studies, it was found that granules would not form at superficial air velocities lower than 1.

Relationship between floc composition and flocculation and settling properties studied at a full scale activated sludge plant

A third factor in the growth of Nocardia and M. Factors affecting the frequency of occurrence of primary particles were examined by logistic

regression and stepwise regression.

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These protozoans include amoebae, flagellates, free-swimming ciliates, crawling ciliates and stalked ciliates. By balancing aeration rates, dissolved-oxygen levels can be maintained throughout treatment.

Factors affecting the occurrence of filamentous bacteria in activated sludge plants

A higher biofilm production and aggregation has been reported due to the grazing activity of protists Liébana et al.

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