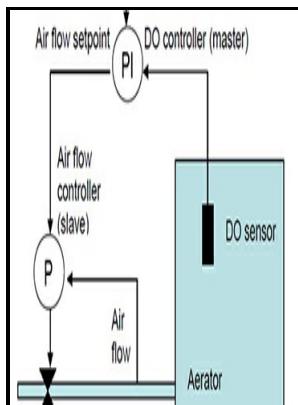


Investigation of the stable foams of activated sludge processes

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



Description: -

-investigation of the stable foams of activated sludge processes

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Notes: Thesis (Ph.D.) - University of Birmingham, Dept.of Civil Engineering, 1990.

This edition was published in 1989



Filesize: 59.210 MB

Tags: #Detailed #investigation #of #the #microbial #community #in #foaming #activated #sludge #reveals #novel #foam #formers

A survey of filamentous bacterial populations from foaming activated sludge plants in Eastern States of Australia

Washing out the non-granulated biomass is considered an important selection force for sludge granulation. However, because our samples were only two time-point collections from one WWTP that uniquely treats saline sewage, the mycobacteria-related hygiene risks due to foaming AS could not be excluded.

Foaming Scum Index (FSI)

On the basis of foaming scales, the two foaming samples were classified as level 4–5, which was approximately 5–10 cm in height and very stable. By storing organic matter, the bacterial growth rate is decreased, slow growing microorganisms are allowed to develop within the granules, and compact granules are obtained de Kreuk et al. Wiley is a global provider of content and content-enabled workflow solutions in areas of scientific, technical, medical, and scholarly research; professional development; and education.

Foaming Scum Index (FSI)

The inhibition of QS, quorum quenching QQ , has also been found to have an important impact on granulation. There were 83 essential single-copy genes ESCGs detected in the reconstructed genome, and three of them were found in two copies. As shown in , ,537 open reading frames ORFs, 32.

Influence of Activated Sludge Flocculation Time on Secondary Clarification on JSTOR

The one-sided Fisher's exact test with Newcombe-Wilson CI method and Bonferroni multiple test correction was conducted to examine the significance of difference between relative abundances in the foam and the corresponding activated sludge sample. The Foaming Scum Index FSI is designed to offer a means to quantify risk on the basis of different foam characteristics which can easily be measured.

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