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Subject Wastewater Engineering

Assignment 1

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- Briefly describe each of one of these parameters? What are methods used for decoupling SRT from HRT?

Answer -

Methods used for decoupling SRT

The solid retention time is the average time that activated sludge solids are in the system. The SRT is an important design and operating parameter for the activated sludge process and is usually expressed in days.

- Briefly describe Hydraulic Retention time (HRT) is

The hydraulic retention time HRT in waste water treatment plant is a measure of an average length tank. It is also known as hydraulic residence time.

- The waste water is retained in different treatment unit at a particular time

-to achieved the desired parameter. The HRT followed in the homogenization tank is 12 to 24 hours. 24 to 48 hours aeration tank. 72 to 120 days anaerobic reactors, 5 to 12 hour in secondary classifiers 3 to 5 hour in primary classifiers, 30 minutes in chlorination tanks etc. During the design tank stage itself the HRT of wastewater in various stage are calculated in order to achieve the outlast parameter.