

عنوان مقاله:

Mathematical modeling and simulation of Salmonella transport influenced by porosity and void ratio in soil and water:
Elemé Niger delta of Nigeria

محل انتشار:

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خلاصه مقاله:

Salmonella transport in soil and water is a serious microbial containment that is a threat to human life, salmonella containment has been found to survival in several days in soil, if there is no regeneration and that will definitely increase microbial population, more so, the microbes also increase when there is high degree of substrate utilization. Mathematical model were developed to express the behavior of the microbes and there transport process. This condition were considered as the system that where developed, considering this variables. The model were developed to monitor the growth rate of the microbes, there rate of concentration at different formation, where found to be influenced by a lots of factors, but the most depressing one where the degree of porosity of the soil, this were found to have influence on the fast migration of the microbes within a short period of time, the conditions where considered and where integrated in derived model the developed model values compared favourably well with the experimental values, the model will definitely monitor the transport of salmonella in prelativ aquifers

کلمات کلیدی:

Mathematical modeling , Salmonella transport , Soil , Water , Human life

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