BOD Removal in Facultative Ponds: Experience in Tanzania

Author(s)
Aloyce W. Mayo

Abstract

This paper discusses the removal of BOD_5 in facultative ponds under tropical conditions. Data was collected from pilot and field ponds at the University of Dar es Salaam and was compared to other ponds in Dar es Salaam. Results showed deviations of performance, in some cases, from assumptions made during the design. The permissible organic loading rate for ponds in Dar es Salaam was 450 kg BOD_5/ha/d. To reduce concentration of algae in the final effluent, a sunken outlet structure was suggested.

Keywords

Facultative ponds;
BOD_5 removal rate;
BOD_5 design equations;
Tropical climates