# Aerobic biological treatment of landfill leachate

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#### Abstract

There is an ongoing need to treat leachates from landfills using approaches that avoid expensive installation and operating costs. Faced with such a problem, Powys County Council (Wales, UK) developed a treatment system based on practical experience. Leachate was re-circulated through aeration towers containing a biofilm supported on plastic media before being polished in reed/filter beds.

Investigations were undertaken to evaluate the performance of these processes. Replicated model aeration towers (1/300 site scale) were used to establish treatment rates for pollutants in leachates of varying strengths; the effects of temperature and variations in pollutant concentrations were also evaluated. Data from these model experiments were corroborated with findings from pilot-scale plants (1/10 site scale) operating on landfill sites. Assessment of treatment performance was based on the degree of amelioration of standard chemical (ammoniacal-N and total organic carbon) parameters. A range of related parameters including nitrate, pH and redox potential were measured in support of these assessments.

Model system experiments indicated treatment rates at 15 °C (883-1895 mg NH<sub>3</sub>-N m<sup>-3</sup> h<sup>-1</sup>; 347-1600 mg TOC m<sup>-3</sup> h<sup>-1</sup>) that were similar across a wide range of leachate concentrations (37-1880 mgl<sup>-1</sup> ammoniacal-N; 130-5315 mgl<sup>-1</sup> COD). Marked changes in the concentration of leachates did not affect treatment efficiency following a short lag effect. Process rates roughly halved with each 5°C decrease in temperature below 15°C, significant nitrification was maintained at temperatures of 0.5-1 °C. High variability in treatment capacity was observed for individual plastic media. Treatment rates in pilot scale plants were slightly higher but broadly consistent with those obtained in model systems.

Keywords: leachate treatment, aerobic, temperature, leachate strength, biofilm.



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systems The effect also involves collaboration between different disciplines in order to arrive at optimum solutions including buildings energy networks convenience systems new energy storage solutions waste to energy technologies and many others This book along with its companion volume covers topics related to sustainability in energy and power production storage distribution and management These include Energy Policies Renewable Energy Resources Sustainable Energy Production Environmental Risk Management Green Buildings Energy Storage Biofuels Processing of Oil and Gas Drilling and Well Design CO2 Capture and Management Pipelines Energy Efficiency Energy from Waste Energy and Transportation Waste Management and the Environment VIII C.A. Brebbia, H. Itoh, 2016-07-14 Waste Management and the Environment VIII contains papers present at the 8th International Conference on Waste Management and the Environment organised every two years by the Wessex Institute The contents were contributed by professionals researchers government departments and local authorities and cover the current situation of waste management Waste Management is one of the key problems of modern society due to the ever expanding volume and complexity of discarded domestic and industrial waste There is a need to establish better practices and safer solutions for waste disposal This requires further investigation into disposal methods and recycling as well as new technologies to monitor waste disposal sites clean technologies waste monitoring public and corporate awareness and general education Unfortunately many of the policies adopted in the past were aimed at short term solutions without regard to the long term implications on health and the environment leading in many cases to the need to take difficult and expensive remedial action The development of sustainable strategies is the preferred trend for Waste Management The approach which has emerged as the most promising has been called 4Rs where reduction reuse recycling and recovery including the sale of waste as Secondary Raw Materials SRM and of Refuse Derived Fuel RDF are seen as the best actions This largely decreases the volume of waste that needs final disposal Contents cover such topics as Environmental impact Reduce reuse recycle and recovery 4Rs Waste incineration and gasification Energy from waste Industrial waste management Hazardous waste Agricultural waste Wastewater eWaste Landfill optimisation and mining Remote sensing Thermal treatment Emergent pollutants Environmental remediation Direct and indirect pre treatment of MSW Disposal of high level radioactive waste Legislation Behavioural issues Sustainable Development and Planning VI C. A. Brebbia, 2013-05-01 This book contains the proceedings of the sixth conferences on the topic of sustainable regional development organized by the Wessex Institute of Technology First held in 2003 the conference facilitates communication between all scientists specialising in the wide range of subjects included within sustainable development and planning These include planners environmentalists architects engineers policy makers and economists who all must work together in order to ensure that planning leads to sustainable development that meets present needs without compromising our future The papers included in the book cover Regional planning City planning Sustainability and the built environment Cultural heritage Environmental management Resources management Social and political issues Rural developments Sustainable solutions in

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