CHAPTER 58

TECHNOLOGY
CIVIL ENGINEERING

Doctoral Theses

625. JHAMNANI (Bharat)
Contaminant Transport From Landfills.
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Abstract

The present study is undertaken to determine the rate of movement of potential contaminants from the bottom of a landfill, so as to evolve a rational method for the determination of thickness of landfill liner. A mathematical model is formulated to express the mass transport of contaminants from a landfill due to the migration of leachate. Various mechanisms of contaminant migration from the bottom of landfill are taken into account. The solution of the model inthe form of concentration profile of potential contaminants below lanfill is obtainedusing the explicit Finite Difference Methos implemented in MatLab 7.0. The model developed is validated for two cases of feild data.

Contents