

An Overview of Semi-Quantitative, Qualitative and Knowledge-Based Systems Methodologies Relevant to Solid Waste Disposal Site Design in Arid and Semiarid Environments.

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Abstract

This paper provide an overview on the methodologies and techniques currently been employed in various fields and examines their relevance to waste disposal site design in arid and semiarid environments. The methodologies covered are: semi-quantitative, qualitative and knowledge-based systems. Various fundamentals and limitations associated with each of the techniques have been discussed. The combination of semi-quantitative and qualitative techniques in developing Knowledge-Based System Model Methodologies for evaluating the performance and design of waste disposal sites in arid and semiarid environments can provide relevant and sufficient data and reduce uncertainty in the final results. However, such systems should be aimed at providing advice rather than attempting to replace the human expertise.