

Article

Analysis of a Municipal Solid Waste Disposal Site: Use of Geographic Information Technology Tools for Decision Making

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Abstract: In this study, the operation of a final disposal site for municipal solid waste in the state of Chiapas, in Mexico, was evaluated. Several spatial analyses and Geographic Information Technology (GIT) tools were used. It was found that the site's current operation and location are deficient, partially complying with regulations. The gaseous dispersion is not far-reaching (from 100 to 8725 µg/m³ for landfill gas, and from 0.01 to 0.35 µg/m³ for H₂S) but requires attention to avoid olfactory unpleasantness. Liquid emissions (conservative pollutants) move in the east direction of the final disposal site, which can damage the environmental infrastructure (water supply wells) in the long term. The highest and lowest concentrations were found in years 1 (12,270 mg/m³) and 20 (1080 mg/m³), respectively. Thermal emissions around the dumping site are important due to the formations of microclimatic zones. Temperature differences were found during the analysis period, ranging from 8.37 °C in summer to 2.49 °C in winter, which are due to waste decomposition processes and anthropogenic activities. Finally, the change in land use around the dumping site increased at a rate of 5.82% per year, mainly due to the growth of homes, communication routes, and shopping centers.

Keywords: municipal solid waste; spatial analysis; final disposal site



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1. Introduction

The effective management of municipal solid waste (MSW) is an important challenge in today's society. Factors such as population growth, consumption habits, and migration have a significant impact on the amount of waste produced in the world [1,2]. In developed countries, MSW management policies and hierarchies are aimed at preventing and minimizing, while in developing countries they are reversed, which means that the disposal of waste through sanitary landfills is still at a fundamental stage [3,4]. According to Espinosa et al. [5], Hercher et al. [6], and Owusu et al. [7], final disposal using sanitary landfills is very popular in many countries, especially in Latin America and the Caribbean, mainly due to the low construction and operating costs compared to other waste disposal technologies.

Sanitary landfills that are properly operated must have comprehensive control systems, which include leachate collection facilities, landfill-gas venting systems, surface and groundwater monitoring stations, specialized equipment, and machinery, etc. [8,9]. However, many times, the location, construction, and operational procedures are deficient, which causes this final disposal technology to become an open dump, which severely affects the quality of the environment and the health of the human being.

Municipal Solid Waste Management Making Decisions In The Face Of Uncertainty

Biswas, Animesh, De, Arnab Kumar



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Solid Waste Management Navigation from Fundamentals to Innovation is a compendium that unravels the complexities of waste management. It traverses the historical backdrop of waste management practices and ushers in a realm where sustainability and cutting edge technologies converge to tackle the escalating challenges of waste disposal and treatment. This book serves a diverse readership i.e. students, researchers, educators, and practitioners. It has an interdisciplinary approach and provides a holistic view of the field, blending theory with actionable strategies and infusing the narrative with innovative solutions. With a focus on sustainability, it underscores the integration of emerging technologies such as AI and IoT in optimizing waste management systems. It equips readers with the knowledge to navigate the intricacies of the industry and fosters the adoption of efficient, sustainable waste practices. As we stand on the brink of environmental exigencies, this book calls for action in a more responsible and forward-thinking manner to managing the byproducts of our civilization.

A Cultural History of Waste Disposal Benjamin A. Lawson, 2024-12-11. This book offers a historical analysis of landfill sites in New York City, Greater Toronto, and Greater Tel Aviv and uses them as case studies to emphasize the international and global scale of issues concerning waste disposal and park redevelopments. New York, Toronto, and Tel Aviv are currently redeveloping giant landfills into parks to much fanfare. The park redevelopments may be seen as an attempt to erase or assuage the decades of problematic waste disposal policy that led to the creation of such large landfills. Booster rhetoric underscores this point, such as promoting how the parks will be a green lung for the city. This book contextualizes these redevelopments by offering a historical analysis providing a greater understanding of the past, current, and future potential issues. It goes on to analyze the language and media coverage surrounding former waste sites becoming park redevelopments, including how cities use art to promote their image and gain cultural relevance. By engaging with both the works of waste historians and literature on waste and discard studies, the book provides theoretical models for analyzing the role of power in municipal systems, as well as human and ecological impacts on waste. It concludes with an analysis of the features necessary for landfill parks to be successful. This book will be useful for scholars, researchers, and academics studying waste studies, the environment, cities, and sustainable development, as well as for policymakers and environmental eco-artists.

Future Energy Conferences and Symposia, 1990 *International Source Book on Environmentally Sound*

Technologies for Municipal Solid Waste Management Larry Rosenberg,1996 This volume provides developing and transition economy countries with information sources and selected technologies relating to the environmentally sound management of municipal solid waste It aims to provide an inventory of available information sources and an analysis of sound practices

Facing America's trash : what next for municipal solid waste? ,1989 *Great Plains Research* ,1995 **Workshop Summary Report** Jeff Solway,University of Waterloo. Institute for Risk Research,1990 **Energy Research Abstracts** ,1990 *Municipal Solid Waste* Martin P. Wanielista,James S. Taylor,1979 Canadian Books in Print. Author and Title Index ,1975 Municipal Solid Waste ,1979 **MSW Composting Fact Sheet Series** ,1993 **Alternatives Journal** ,1999 Canadian environmental ideas action varies **Multi-Objective Stochastic Programming in Fuzzy Environments** Biswas, Animesh,De, Arnab Kumar,2019-03-22 It is frequently observed that most decision making problems involve several objectives and the aim of the decision makers is to find the best decision by fulfilling the aspiration levels of all the objectives Multi objective decision making is especially suitable for the design and planning steps and allows a decision maker to achieve the optimal or aspired goals by considering the various interactions of the given constraints Multi Objective Stochastic Programming in Fuzzy Environments discusses optimization problems with fuzzy random variables following several types of probability distributions and different types of fuzzy numbers with different defuzzification processes in probabilistic situations The content within this publication examines such topics as waste management agricultural systems and fuzzy set theory It is designed for academicians researchers and students Resource and Environmental Management in Canada Bruce Mitchell,1995 Resource and environmental management often seem to center upon the resolution of conflict generated by differing regional sectoral substantive or ideological perspectives Uncertainty about present or future conditions is also a basic feature Nevertheless analysts and managers must make well informed decisions that may have long lasting effects This is the twin focus at the core of Resource and Environmental Management in Canada The second edition features revisions of the twelve chapters from the first edition with five additional chapters that deal with First Nations gender relationships free trade fisheries management on the East Coast and tensions between the hinterland and heartland areas This updated book written by leading experts across Canada will be welcomed by students and researchers in geography and environmental studies Waste to Energy Avraam Karagiannidis,2012-01-03 This book addresses the problems of integrating waste to energy WTE in developing countries and countries in transition where waste management infrastructure and awareness can be lacking and where scepticism is among a unique and complex set of barriers *Truck Safety* University of Waterloo. Institute for Risk Research,1996

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