

Nichapa Sutthikittibutr 2009: A Landuse Planning for Future Development of an Operated Landfill Site by People Participatory Process: The Case Study of Nonthaburi Landfill. Master of Landscape Architecture, Major Field: Landscape Architecture, Interdisciplinary Graduate Program. Thesis Advisor: Mrs. Cuttaleeya Jiraprasertkun, Ph.D. 199 pages.

Many operated landfill sites in Thailand usually confront problems of toxic pollutions and the spreading toxic wastes. Accordingly, such landfill sites could not be immediately developed after the site is closed while people who live nearby do not give support to the project, creating complications to the process of land restoration and development in a later stage. This research therefore aims to define problems, limitations and obstacles arisen from an operated landfill site in order to propose an appropriate land use planning, management and landscape improvements for the landfill site in accordance with the sanitary requirements. Apart from reducing environmental impacts, this research also attempts to propose a future plan that is derived from people's requirements; hence participation has been used as a strategy to allow communities and all stakeholders involving in various parts of the project. Data was collected from literature reviews, field observation in the study area, Nonthaburi landfill, as well as from the questionnaires and the interviews with three groups of people, consisting of local people, the heads of communities and the experts in various fields. The data indicated that Nonthaburi landfill needs to be developed in several phases including the adjustment of the operation according to the sanitary principles, the mitigation of environmental problems resulted from an inappropriate operation and the unplanned development, and the integration of social process in order to create good project image and people's perceptions. The thesis constructed two important processes for the land development. The first one is the planning process for future land development, consisting of the verification and evaluation of the landfill site, the site survey, the data collection from people living nearby and its analysis, and the future land use planning. The second process is the guideline for people and involved organizations to participate in the future land development including the notification and announcement of environmental impacts, the exploration of people's requirements as well as the follow-up and verification of the project. The main purpose of this process is to reduce social conflicts and negative perceptions resulted from the lacking of people participation and necessary information. Overall, this research findings and proposed methodologies could benefit the future land development of the selected site as well as other landfill sites, both already operated and newly constructed ones.

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