



**DEPARTMENT OF BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA**

**THE MANAGEMENT AND MAINTENANCE
OF SEWAGE TREATMENT**

**This academic project is submitted in partial fulfillment of the
requirement for the Bachelor Of Building Surveying (Hons.)**

**MOHD ZULKIFLY BIN MUSA
(2006699335)**

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"I hereby declare that this academic project is the result of my own research
except for the quotation and summary which have been acknowledged"

STUDENT'S NAME : MOHD ZULKIFLY BIN MUSA

SIGNATURE :



UITM NO : 2006699335

DATE : 20TH APRIL 2008

ABSTRACT

Sewage is the mainly liquid waste containing some solids produced by humans which typically consists of washing water, faeces, urine, laundry waste and other material which goes down drains and toilets from households and industry. It is one type of wastewater, and is a major actual or potential source of pollution especially in urban areas. Sewage services exist to manage sewage by collection, treatment and recycling or safe disposal into the environment.

Sewage is created by residences, institutions, and commercial and industrial establishments. It can be treated close to where it is created (in septic tanks or on site package plants and other aerobic treatment systems), or collected and transported via a network of pipes and pump stations to a municipal treatment plant. Sewage collection and treatment is typically subject to local, state and federal regulations and standards (regulation and controls). Industrial sources of wastewater often require specialized treatment processes.

Sewage is treated to remove or alter contaminants in order to minimize the impact of discharging wastewater into the environment. Beside that, sewage needs to treat in order to avoid water pollution. Water pollution not only gives effect to the aquatic habitat but also to the human.

However, most of people did not know about the process, operation and types of sewage treatment system that was used to minimize the sewage. In short, this dissertation will study on the Management and Maintenance of sewage treatment and it is hoped that author can come out with rationale solution and recommendation regarding the study area.

This dissertation consists of 5 chapters. The chapter 1 explains about the introduction of sewage treatment and describes the definition of sewage. Beside that, this chapter also explains about the issues or problem according to the sewage treatment, objectives of study, scope of study and methodology of study. While Chapter 2 was explaining the process of sewage treatment including their maintenance and their operation. This chapter also covers the problem on sewage. Description of case study of case study will be described in chapter 3. Case study analysis can be discusses in chapter 4. The analysis is according to the process of sewage, operation on sewage and the problems that occur during the sewage treatment process. Final chapter is about the summarization of the study and recommendations that would be given based on the study

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