



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

**SEWERAGE SYSTEM
CONSTRUCTION, MAINTENANCE AND EFFECTIVENESS
OF VACUUM SEWERAGE SYSTEM AT WATER VILLAGE**

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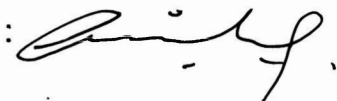
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**"I hereby declare that this academic project is the result of my own research
except for the quotation and summary which have been acknowledged"**

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ABSTRACT

Our planet earth is very different from all the rest of the planets in the sense that almost $\frac{3}{4}$ of the earth's surface are covered by water, which in turn sustains life. In development also, it must have construction of buildings. Buildings should have maintenance to conserve, control and maintain building from any damage or defect problem. Services also are important systems in building such as electrical, water supply, sewerage system and drainage system.

Sewerage is that water carried waste which derives principally from dwellings, businesses, institutions, industry and the like exclusive of any storm, surface and/or ground water. Sewer pipe or conduit for carrying sewage. Sewer system all facilities for collecting, pumping, treating, and disposing of sewage. Sewerage system is one of system to avoid pollution at river.

Vacuum Sewerage System is one from types of sewerage system in Malaysia. Vacuum Sewerage System negative pressure system of wastewater transport utilizing differential air pressure to create flow, as opposed to gravity-induced flow of conventional wastewater collection systems.

Vacuum sewage is the process of removing contaminants from wastewater, both runoff and domestic. It includes physical, chemical and biological processes to remove physical, chemical and contaminants. Its objective is to produce a waste stream and a solid waste or sludge also suitable for discharge or reuse back into the environment. This material is often inadvertently contaminated with toxic organic and inorganic compounds. There were two essential nature drain vacuum, namely equipment *collection chamber* and *system vacuum toilet*. Vacuum toilet use broaden manner at ship, star cruise, aeroplane and long distance train.

The purpose of the dissertation is the discussion about vacuum sewerage system. The aim of the dissertation is to introduce the Vacuum Sewerage System and to identify the effectiveness of the Vacuum Sewerage System used. This is because all people begin to think about the importance of sewerage system for their living area or building in the future.

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