

REVIEW OF DOMESTIC WASTE WATER TREATMENT DECENTRALIZED (COMMUNAL WWTP) in YOGYAKARTA

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ABSTRACT

This study aims to determine the condition, location and Communal domestic WWTP treatment system in the city of Yogyakarta. particularly in areas along the river Code, rivers and streams Winongo Gadjahwong that serve as the arteries of life surrounding communities.

To obtain the data and meet the objectives of this thesis, were observed in several areas around the banks of major rivers in Yogyakarta with the aim to find out the conditions and systems used in the treatment of wastewater.

From the results of field observations found that: (1) Domestic wastewater treatment using technology Yogyakarta ABR (anaerobic baffled reactor) which consists of several components such as bio-digester, anaerobic baffled reactors and filters developed by DEWATS-LPTP, (2) communal waste water treatment is divided into several stages include preliminary processing, equalizing the quality, and advanced process. In the preliminary processing, equalizing quality and advanced process there are various components that need to be made with regard to the background field conditions, such as: bio-digester, baffled reactors, anaerobic filters and component disposal / reuse, (3) WWTP of Yogyakarta to date it has established as many as 41 units. 19 units located on the banks of the river Winongo, 12 units in the flood plains Code and 10 units on the banks of the river Gadjahwong.

Keywords: Treatment, Waste Water, Communal WWTP, Anaerobic Reactor