

# Evaluasi kinerja reaktor upflow Anaerobic Sludge Blanket (UASB) dan Downflow Hanging Sponge (DHS) dalam mengolah air limbah domestik: Kajian terhadap kualitas air Waduk Seliabudi, Jakarta Selatan

Nurhadi, translator

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## Abstrak

Tesis ini membahas kemampuan unit pengolahan limbah UASB, UASB-DHS dan DHS dalam menyisihkan pencemar di Waduk Setiabudi Jakarta Selatan. Penelitian ini adalah penelitian deskriptif kuantitatif; dan data diperoleh dari penelitian parameter kualitas air di laboratorium. Hasil penelitian menunjukkan teknologi kombinasi UASB~DHS mampu menyisihkan pencemar paling baik diikuti dengan sistem pengolahan tunggal DHS. Berdasarkan pertimbangan kesesuaian, kapabilitas teknologi, lahan tersedia, serta kelayakan finansial, satu unit pilot project teknologi DHS dapat dibangun di Waduk Setiabudi Jakarta Selatan.

.....The focus of this study is to research capability of wastewater treatment units UASB, UASB-DHS and DHS for reducing contaminant in Setiabudi reservoir in South Jakarta. The purpose of this study is to determine the best technology for reducing contaminant. This research is quantative descriptive interpretive, and the data were collected by researching in laboratory. The result of this study shows that technology combination of UASB-DHS is the best for reducing contaminant. Based on suitability considerations, technological capability, land available, as well as the financial feasibility, a unit of DHS technology can be built as a pilot project in South Jakarta Setiabudi Reservoir.