STUDY ON WATER TREATMENT OF SHRIMP FARMS EFFLUENT BY SOME MANGROVE PLANTS IN KUNG KRABEAN BAY ROYAL DEVELOPMENT STUDY CENTER AREA

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ABSTRACT

Study on water treatment of shrimp farms effluent by some mangrove plants was used 4 species of mangrove plants (Ceriops tagal, Rhizophora apiculata, Avicennia alba and Bruguiera gymnorrhiza) compared with control (only soil from sediment pond) . The experiments were applied in 15 concrete tanks. Tanks sizes were 2.0x3.0x1.2 m. CRD experimental design was used. The results showed that in first experiment (June 2001) Avicenna alba has the highest efficiency to reduced ammonia at 97.28 % but not significant difference (P>0.05) from the others. For the second experiment (November 2001), there was a same result. Avicenna alba also has the highest efficiency to reduced ammonias at 93.59 % and not significant different from the others (P>0.05) too.

Key words: Water treatment, Shrimp farms effluent, Mangrove plants

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