

Suchaya Sawetvanichakul 2014: Influence of Treated Wastewater on Ecological Niche of Benthos on Laem Phak Bia Beach, Ban Laem District, Phetchaburi Province. Master of Science (Environmental Science), Major Field: Environmental Science, Department of Environmental Science. Thesis Advisor: Assistant Professor Onanong Phewnil, Ph.D. 90 pages.

The study of Benthic fauna abundance on Laem Phak Bia Beach, Ban Laem District, Phetchaburi Province were conducted in wet season (September 2012) and dry season (March 2013). The benthic was found 40 types 6 phylum. The average density of benthic were 122 individuals/m² and 94 individuals/m² in wet season and dry season, respectively. The dominant species belong to Unidentified Spionidae and *Glycera* sp. in Phylum Annelida. In terms of abundance and diversity of benthic fauna were relatively higher in wet season compare to dry season. The study benthic species in various depths of the soil during wet season and dry season were found a statistically significant difference ($p < 0.05$). The factors that affected the amount of benthic included turbidity of water in wet season. The correlation coefficient (r) equal to 0.097. The factors that affected the type of benthic in the wet season was pH of soil at a depth of 15 - 30 cm and cation exchange capacity (CEC) of soil at a depth of 15 - 30 cm in dry season, which correlation (r) equal to -0.883 and - 0.893, respectively. The relationships between benthic and the benthic clam (*Meretrix costa*) found no correlation both wet and dry season.

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Thesis Advisor's signature

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