

Siriphatthar Phonlar 2014: Accumulation of Heavy Metal in Hard Clam (*Meretrix* spp.) 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. 86 pages.

This study on heavy metal accumulation in the benthic clams (*Meretrix* spp.) on Laem Phak Bia Beach, Ban Laem District, Phetchaburi Province was conducted in rainy season (September 2012) and dry season (March 2013), included heavy metals in sea water, soil sediment, and the benthic clams (*Meretrix casta* and *Meretrix meretrix*). Heavy metal accumulation was analyzed in fresh clams, accumulated water in fresh clams, fresh clams in sea water, accumulated water of clams in sea water, boil clams, accumulated water in boil clams. The heavy metals were determined for Arsenic (As), Cadmium (Cd), Chromium (Cr), Lead (Pb), Mercury (Hg) and Nickel (Ni). The results showed that the most accumulated heavy metal concentration in *Meretrix meretrix* was arsenic (As) but it was under standard and eatable. In addition, the most accumulated heavy metal in soil sediment was lead (Pb), 19.25 mg/L. The most accumulated heavy metal in average concentration in sea water showed nickel (Ni) 0.45 mg/L.

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