## **ABSTRACT**

## DISTRIBUTION OF HEAVY METAL COPPER (Cu) AND COBALT (Co) INSEDIMENTPANJANG PORT BANDAR LAMPUNG

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Distribution of heavy metal Cu and Co in sediment of the Panjang porthad been investigated. Determination of the metal's concentrationswere analyzed by Atomic Absorption Spectrofotometer. The analysis was carried out with four validation methods including: limit detection, acuration, precision and linearity. The analysis result showedthat concentrations of sediment in Panjang Port has high concentration of Cu and Co i.e.  $93,345 \pm 4,772$  ppm (Cu) and  $107,558 \pm 0,403$  ppm (Co), except at site F and G is low. The concentration respectively of both metal ions has been exceeding the standard heavy metal weight on sediment asstated by *The Ontario Ministry Of The Environment*. Validation method onthe determination of the ions showed precision with the value of standard deviations < 5 %, accuracy in the range 80 - 113 %, the limit detection for each ions 0,004 (Cu) and 0,060 ppm (Co), and the corellation coefficient of Cu and Co was 0,9998 and 1. Temperature, pH and the stream were not affecting metal contents in sediment but suggested were influenced by the type of sediment.

Keywords: Distribution of heavy metals, Cu, Co, Panjang Port.