

AN ANALITICAL STUDY ON HEAVY METAL IN WATER
OF SRA - KEAW PHITSANULOK HOSPITAL

AN ABSTRACT
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The purposes of this study were : to find the concentration of heavy metals Cadmium, Mercury, Lead, copper and Zinc in Sra - Keaw located in the Phitsanulok Phutachinarat Hospital, and to compare the quality of these metals in Sra - Keaw of all three seasons.

The study had been made in Sra - Keaw where the area of face water about 30, 355 m². Water collections had been made interval from June 1992 through May 1993, and made it in pH2 with HNO₃ (conc.). Water quality analysis had been made in Science and Tecnological Research Equipment Centre Chulalongkorn University by Air - C₂ H₂ Flame Atomic Absorption Spectrophotometer Varain Model Spectr AA - 300.

It was found that : the average of heavy metal Cadmium, Murcury, Lead, Copper and Zinc were 0.050 ppm 0.514 ppm 0.320 ppm 0.115 ppm and 0.052 ppm respectively.

There were no significant difference of those heavy metals during hot, cold and rainy seasons.

The average of heavy metal Cadmium, Murcury and Lead were Higher than Thai Industrial Standards Institute while Copper and Zinc were lower than those Standards.