

Removal of Heavy Metals in Wastewater Treatment System of Suan Sunandha Rajabhat University

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Abstract : This study focused on the determination of heavy metal concentration in wastewater and the investigation of heavy metal removal of wastewater treatment system of Suan Sunandha Rajabhat University. Heavy metals (Pb, Cu, Mn, Ni and Zn) were found in wastewater of Suan Sunandha Rajabhat University. Wastewater treatment systems of Suan Sunandha Rajabhat University showed the performance to remove heavy metals. However, heavy metals were still presented in effluent but these residue heavy metals were not over the standard for industrial wastewater. Wastewater treatment system can remove heavy metal by different process such as bioaccumulation by microorganism and biosorption on activated sludge.

Keywords : heavy metal, wastewater, bioaccumulation, biosorption

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