ANALYSIS CONTAMINATION OF HEAVY METALS NICKEL (Ni), TIMBAL (Pb), IRON (Fe), ON RIVER SEDIMENT DEPOSIT IN PT "X" TOROBULU AREA, OF SOUTH KONAWE DISTRICT, PROVINCE OF SOUTHEAST SULAWESI

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ABSTRACT

The research is located in the Torobulu area of South Konawe Regency of Southeast Sulawesi Province which is close to the mining area. The purpose of this research is to know the level of river sediment contamination around the mining area in PT. “X” by analyzing sedimentary content of the river deposit including Ni (nickel), Pb (timbal), and Fe (Iron). The method used in this study is the grab sampling method and the heavy metal analysis method carried out in the laboratory using the Atomic Absorption Spectrophotometry (AAS) method, then proceed with data analysis using the United State Environmental Protection Agency (US EPA) quality standard. The value of the heavy metal content of Ni, Pb, Fe in the study area from the six observation points, Ni elements at stations one and two crossed the sediment quality standard, so it can be concluded that the river surrounding the PT “X” mining of the Torobulu area has been polluted by metal elements nickel heavy, but still classified as mildly polluted.

Keywords: Torobulu area, Heavy Metal, United State Environmental Protection Agency (US EPA), Atomic Absorption Spectrophotometry (AAS).