

**EROSION EVALUATION LAND MINE CLOSURE RECLAMATION OF COAL AFTER
IT REVEGETATION IN PT. MULTI TAMBANGJAYA UTAMA, TELUK BETUNG
VILLAGE, KARAU KUALA DISTRICT, BARITO SELATAN REGENCY, CENTRAL
BORNEO**

Rio Agustian

114.110.031

ABSTRACT

Mining activities are potentially damaging to the environment, because of the nature of the activities that alter the landscape. One of the negative impact of mining activities is terjadiya erosion. Erosion can cause damage which in turn will result in reduced soil fertility. One effort to prevent or reduce the environmental impact made is post-mining land reclamation. The research objective was to determine the substantial erosion of the mine erosive land reclamation and revegetation of the erosion effect of age.

Research on Erosion Evaluation land Mine Closure Reclamation Of Coal After It Revegetation in PT. Multi Tambang Jaya Utama, Teluk Betung Village, Karau Kuala District, Barito Selatan regency, Central Borneo. The research was conducted by survey method, laboratory analysis, experiments and mathematical. The parameters used are topography (slope), climate, vegetation cover, surface flow (run off), land use, soil type and age of vegetation. Large soil erosion obtained by making small plots in the study site. Small plots are made at three places with different vegetation and slope. The entire of the place is named plot K4 for the planted primer area like sengon and mahoni that aged 1 year, Plot Pilotman for the planted Sengon and acacia that aged 3 years and plot SBS for the planted primary area like sengon and acacia that aged 5 years.

Based on the calculation of soil erosion and run-off, it is obtained that the highest result is Blok K4. Blok K4 is the primary crop planted area like sengon and mahoni that aged 1 year. Blok K4 had the highest erosion as much as 48.24 kg / month and run off as much as 1954 liters. Vegetative method and mechanical method can be applied to overcome erosion on reclaimed land.

Keywords: coal mine, revegetation, reclamation, erosion, small plots