

Pengelolaan air asam tambang kegiatan pertambangan batubara terbuka dan kemungkinan dampak pada kesehatan kulit masyarakat pemanfaat sungai (suatu kajian di PT. X, Kabupaten Murung Raya, Provinsi Kalimantan Tengah) = Acid mine drainage management of open pit coal mining activities and possibility impact on skin health of river water-users community (a study in PT. X, Murung Raya District ,Central Kalimantan Province) / Rio Febrianto

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Abstrak

ABSTRAK

Penelitian ini dilaksanakan dikarenakan adanya permasalahan tidak dipatuhinya baku mutu pH air asam tambang oleh PT. X. Penelitian ini dilakukan dengan menggunakan pendekatan evaluasi kinerja pengelolaan air asam tambang PT. X di Kalimantan Tengah, pengukuran kualitas air keluaran tambang dengan uji Storet, dan wawancara mendalam kepada masyarakat pemanfaat perairan. Hasil penelitian ini menunjukkan komponen pembentuk air asam tambang berupa batuan Potentially Acid Forming PAF diketahui sebesar 50 terdapat pada tambang PT. X dan sudah dikelola dengan baik melalui meminimasi sumber air asam tambang dengan penanganan bahan PAF atau Non Acid Forming NAF secara selektif, pengendalian migrasi air asam tambang, dan pengolahan air asam tambang. Kualitas air keluaran tambang pada titik pantau SP-HJ-03 termasuk dalam status kualitas air A atau dalam kondisi baik sekali, sedangkan kualitas air keluaran tambang pada titik pantau SP-HJ-04 termasuk dalam status kualitas air B atau dalam kondisi baik. Gatal-gatal yang diderita pada 44 responden hanya 3 keluhan yang tercatat secara resmi di Puskesmas Desa Tumbang Bauh , diduga bukan diakibatkan oleh air keluaran tambang PT. X. Kata Kunci Key Words : kesehatan kulit; pengelolaan air asam tambang; pertambangan batubara; Potentially Acid Forming PAF ; Storet.

ABSTRACT

Abstract This research conducted due to the problem of non compliance of water quality standard pH of acid mine drainage by PT. X. This research conducted by using performance evaluation approach of acid mine drainage management of PT. X in Central Kalimantan, measuring the quality of mine water effluent by Storet test, and in depth interviews to the water users around the mine site. The results showed that the acid mine drainage components is Potentially Acid Forming PAF rocks was found 50 in the PT. X and is well managed by minimizing acid mine water sources by selectively handling of PAF or Non Acid Forming NAF materials, controlling acid mine drainage migration, and acid mine drainage treatment. The water quality effluent of SP HJ 03 monitoring point is A status meaning that the water quality is in excellent condition and complied with the water quality standards, while the water quality effluent of SP HJ 04 monitoring point is B status which means the water quality is in good condition and in the category of mild contamination. Skin health issues of 44 respondents only 3 of complaints are officially recorded at Tumbang Bauh Village Health Center possibly not caused by acid mine water of PT. X. Keywords acid mine drainage management, coal mining, Potentially Acid Forming PAF , skin health issues, Storet test.