

Hydro-chemical Characteristic of Bytomka River – Witold Nocoń, Maciej Kostecki

Summary

This study includes the results of investigations carried out on the Bytomka River which were made from September 2003 to January 2004. The results emphasized the changes of physico-chemical parameters of water quality. Low concentration of dissolved oxygen and high concentration of ammonium nitrogen and COD are probably caused by the discharge of municipal waste-water. High salinity is caused by coal-mines water from the river basin area. All of the discussed parameters of water quality (except for pH-index and nitrate nitrogen) are beyond official classification. Although in the river basin area there are currently activities which protect the environment, no changes of water quality have been observed except for the salinity which is growing up all the time. Improvement of the existing situation will be possible only if firm waste-water managements action is taken.