

## Neutralization of Sulphurous Waste (AMD) Using Recycled Waste Concrete

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**Abstract :** Re-using of concrete waste materials for the neutralization of acid mine drainage (AMD) can protect the environment and contribute the national economy. The aim of this study was to investigate the prevention of AMD formation and heavy metal release using concrete wastes which are alkaline and generated by demolition of buildings within the urban renewal process. Shake flask test was conducted to determine the neutralization effects. Concrete wastes are rich in  $\text{CaCO}_3$  and they are used as a pH regulator for AMD neutralization. The results showed that pH of the AMD increased from 3.33 to 6.84 with the application of concrete waste materials.

**Keywords :** AMD, neutralization, sulphurous waste, urban renewal

**Conference Title :** ICEWRM 2016 : International Conference on Environment and Water Resource Management

**Conference Location :** Barcelona, Spain

**Conference Dates :** August 11-12, 2016