

Abstract

The topic of this Thesis is analysis of the south dump slope at Severn lom locality. The analysis has been done by dint of mathematic modelling by the finite element method. I used the Plaxis programme for this. For the compilation this model has used information from previous surveys in this location. I used especially assessment of stability, documented geodynamical effect and other factual findings, like is the state underground water.

The geology and geomorphology of the Severn lom area and surroundings is summarised in this work. Furthermore the finding of groundwater flow and evolution is summarised too. The sizable part of my work is the regressive analysis of landslide of the year 1991.

The south dump slope model results are possible stability problems in this slope and the possible origin of these problems. The model results are balanced by eventually influence which has not been modelled directly.