

**BACK ANALYSIS OF A SLOPE FAILURE
BY USING PLAXIS CODE**

By

SYAHRUL ROZAILY BIN USUL


Report is submitted as
the requirement for the degree of
Bachelor Engineering (Hons) (Civil)

UNIVERSITI TEKNOLOGI MARA

OCTOBER 2004

DECLARATION

I Syahrul Rozaily Bin Usul (Matrix No: 2000135626) confirm that the work is my own and that appropriate credit has been given where references has been made to the work of others.

 29/10/2004

ACKNOWLEDGEMENT

In the name of Allah, the most gracious and the most merciful. I am grateful to complete this report during the time period given.

First and foremost, I would like to express my sincere gratitude to my supervisor, Ir. Mohd Farid Ahmad @ Majid, for his patience, guidance, support and sincerity for assisting me during the preparation of this report.

My thanks are also forwarded to Mr Fawzan technician of F.K.A, for his kindness for giving some valuable space and time needed for using his office and computer. And to Ms. Farah the Geotechnical Laboratory technician with the sincerely awarded me a freedom to use the laboratory's computer hence to complete the thesis.

I am happy to acknowledge my colleagues, especially Muhamad Azad Ahmad Dinar and Mohd Mawardi Hj. Ashari for their help and kindness to share few materials for references.

Finally, to the parties who their names are not mentioned, I would also like to forward them my appreciation for their help and support.

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ABSTRACT

This final year project is related with the stability control of an embankment built on soft clay soils in Kg Paka, Terengganu. It consists of three parts; the first part is the data presentation of the actual failure of embankments on the PETRONAS gas processing plant. The data available are the observation of the failure pattern and the result of equilibrium method via Geoslope Software. The second part is the analysis of the failure by using Finite Element Method via PLAXIS Code. The simulation of the failure is governed by Mohr-Coulomb profile. The third part presents the comparison between the actual failure result and the PLAXIS Code; and between the Geoslope Software and PLAXIS Code. The comparison leads to the reliable and appropriateness of the finite element method (PLAXIS) usage.