

## 7. ACKNOWLEDGEMENT

This research work was conducted at the Division of Engineering Geology, Department of Civil Engineering and Environmental Engineering, Royal Institute of Technology (KTH), Stockholm, Sweden during autumn 2004-spring 2005. Within this period I have received help and support from many people, to all of whom I would like to express my most sincere gratitude.

First of all, I would like to express my utmost gratitude to my tutor at my home university, Professor Eduardo Alonso, Department of Geotechnical Engineering and Geosciences, Polytechnic University of Catalonia (UPC), Spain, who made my research at KTH possible.

I would like to express my deepest gratitude to doctoral student and co-tutor at KTH, Tomofumi Koyama, from whom I have learnt a lot of things, not only in the academic aspect. Thanks Tomo for being always willing to help, for being so patient with me and for your wise advice and useful comments.

I would also like to express my sincere gratitude to Dr. Lanru Jing, Group of Engineering Geology and Geophysics, KTH, for his supervision and guidance in this research work. I really appreciate all his comments and wise advice during my stay at KTH. I would also like to express my gratitude to Professor Robert Zimmerman, Group of Engineering Geology and Geophysics, KTH, for his intelligent advice and helpful suggestions and comments.

I would also like to thank other members of the Group of Engineering Geology and Geophysics, KTH, for the friendly working environment and for the amicable “ficka” we have share together all this time.

I would like to express my special thanks to all my family, especially to my parents, who have made possible that my dream of studying abroad has come true. I really have enjoyed their visiting me during my stay in Sweden.

I would like to extend my special thanks to Dr. Marcel Hürlimann, Department of Geotechnical Engineering and Geosciences, UPC, for his interest in my work and for being always willing to help. I would also like to thank Dr. Sebastià Olivella, Department of Geotechnical Engineering and Geosciences, UPC, for accepting to be a member of the Tribunal.

I would like to thank Pere and Núria, for sharing so many unforgettable moments during our Erasmus year, and thanks to the people I have meet that have made special my stay in Sweden. I would also like to thank all my friends that have visited me this year, because they have made me feel like at home during their stay. My special thanks to Maria for all her help along my studies and for her encouragement and enthusiastic support. My sincere thanks to Oriol and María José for their help in the hard moments. I would also like to thank all my friends that have had the patience for listening my explanations concerning my thesis work.

Last but not least, my dearest thanks to Pilar for all the good moments we have lived together and for her patience, understanding and constant support.