## **THESIS**

## INVESTIGATION OF FLOCCULENT-FLOCS IN A MULTILAYER-FLOATING-MEDIA FLOCCULATOR USING HIGH RESOLUTION IMAGES

## APINYA SIRIWANLOP

A Thesis Submitted in Partial Fulfillment of
the Requirements for the Degree of
Master of Engineering (Environmental Engineering)
Graduate School, Kasetsart University
2006

ISBN 974-16-2105-1

**ACKNOWLEGEMENTS** 

The researcher greatly appreciates and is obliged to Dr.Monthon Thanuttamvong,

guidance and advice as correction from time to until completion of this research. I must also

thanks Associate Professor Dr.Chart Chemchaisri for support the flocculator column, Assistant

Professor Dr.Cheema Chomsurin for her suggested image processing program and comments on

my thesis. I would also like to thanks Associate Professor Prasert Suwanvitaya, the representative

of Graduation School for their revision instruction until completion of the thesis.

I am extremely appreciative of Mrs. Sasiwimol Hoontrakul, who helped my laboratory

work. This research would not have been accomplished without her support.

In addition, I would like to extend my sincere thanks to Ms. Supa Vihokpaibul, Mrs.

Bangorn Inpum and Ms. Panumas Puongkaew for providing comments and necessary information

related to the study.

Finally, I would like to express my special thanks to my family for their endless help and

offering me moral support during my studies.

Apinya Siriwanlop

March 2006