

Singapore Stanford Partnership Programme

MS Project MS08-26

Airborne Nutrition Sources into the Water Reservoirs

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Eutrophication (biological enrichment) is a common concern for the water reservoirs in Singapore. Other than the nutrients (N, P) from catchments inflows and sediments, the nutrition transferred from airborne particles sometimes become an important source for some environments. This project will evaluate the amount of pollutants (nutrients) transfer from air medium into water system through different pathways, including rainfalls, dry depositions, and others.

The student will first determine the proper sampling locations and conduct preliminary tests. The sampling and analysis protocols will be finalized in this stage. Then the student will team up with other research students for the experimental design and sample analysis. The student will also provide some possible solutions to lower airborne nutrition sources by the end of the project.