COMPREHENSIVE INTEGRATED MANAGEMENT PLAN FOR THE MAYAGÜEZ BAY WATERSHED RESEARCH PROGRAM

For the month ending: 9/30/2003 **Date of the report**: 10/7/2003 **Project** # CIMP- 002

Project Title: _Nutrient discharges from Mayagüez Bay Watershed_

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Percentage of Work completed in this month (%). 8

Accumulative Percentage of work completed (%). 8

Summary of Progress on Project in this month by task as listed in the work schedule (attach additional sheets, if necessary):

1. We continue to perform bi-weekly sampling at the five stations of the sub-watersheds Quebrada Cercada, Cerro Gordo, Quebrada Cerrote, Quebrada Chamorro, and Guaba within the RGA watershed. To date we have completed sampling for the following dates for the year 2003: 20 January, 4 February, 18 February, 4 March, 18 March, 2 April, 22 April, 29 April, 12 May, 28 May, 10 June, 24 June, 8 July, 18 August, 2 September, 16 September, 30 September. Fourteen events were sampled during 2002 and seventeen events have been sampled during 2003.
2. *In situ* field monitoring includes pH, electrical conductivity, and water temperature. The YSI temperature, electrical conductivity, pH probe is calibrated in the laboratory prior to measurement in the field. Laboratory measurements of pH, and electrical conductivity are also performed.
3. Through the 8 July sampling date we have completed measurements for the following parameters: suspended sediments, total P, dissolved P, fecal coliform counts, *E. coli* counts, *Enterococcus* spp. counts, chlorophyll a.
4. Measurements which are in progress are: total kjeldahl N for all sampling dates, and dissolved N (NH_4^+-N and NO_3^--N) for samples collected after August 2003.
5. We have installed an ISCO 3000 Automatic Storm Event Sampler at Cercada subwatershed in Añasco. To date we have collected five storm events, and have collected information on total hydrologic discharge (during the storm event) and suspended sediment concentrations. Total N and total P analysis will be performed.

6. The installation of a second station is being planned for Cerro Gordo subwatershed. Although we have on-hand all necessary equipment, a problem with the depth sounding probe prevented installation. We hope to have this completed before the end of October.

Status (Please check were appropriate)

Project Status (x)

_x___On Schedule ____Delayed ____Suspended ____Cancelled ____Completed