

ABSTRACT

This study focused on the assessment of the existing control structures of Barangay Ligas II in the City of Bacoor using the Natural Resources Conservation Service Method of the United States Department of Agriculture. The assessment of the area of study tried to determine the catchment area, maximum discharge of the existing flood control structures, peak outflow discharge of any year return period, infiltration rate of the soil, soil type, hydrologic soil group, estimated runoff volume of any year return period, existing drainage map, and topographic map of the point of analysis. The determined data were used to establish the design parameters of the detention basin such as runoff volume, peak outflow discharge, storage volume, maximum possible area, volume and the design sample of the detention basin. The detention basin is the proposed engineering intervention to obliterate or reduce the extreme rise of water level in Ligas II.

