

✓ **ASSESSMENT OF WATER SUPPLY SYSTEM IN
NAIC, CAVITE**

Undergraduate Thesis
Submitted to the Faculty of the
College of Engineering and Information Technology
Cavite State University
Indang, Cavite

In partial fulfillment
of the requirements for the degree
Bachelor of Science in Agricultural Engineering

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ABSTRACT

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The study was conducted in Naic, Cavite from November 2015 to January 2016. Specifically, it aimed to: assess the functional elements of the water supply system; assess the quality of water supplied in the area; determine the present water demand for the year 2015; and project the water demand in the next five years.

NAWASCOR operates six pumping stations and has two storage tanks. The source of water is groundwater and a hypochlorinator is used for water treatment. Direct distribution system is used which means that the water is transported directly to the distribution pipes. The quality of water being supplied in the area is tested annually for physical and chemical characteristics and monthly for microbiological characteristics. The water samples were taken from the sources of supply and end points of use and analyzed in Dasmarinas Water District.

In 2015, the NAWASCOR had an estimated 26,384 individuals served and an average of 216 connections for commercial use. The average daily production, consumption and losses in the service area were 3,837,930.00 L/d, 3,292,879 L/d and 545,050 L/d, respectively.

The water demand up to the year 2020 was projected in two cases: 1) The eight barangays not serviced by NAWASCOR will still depend on their own private well or buy water from the households connected to the water system; or 2) The eight barangays