

**Filtering and Purifying water in a more economical, innovative,
and convenient way using activated carbons.**

An Undergraduate Thesis

Presented to

the Faculty of the College of Technology

De La Salle University-Dasmariñas

Dasmariñas, Cavite



In Partial Fulfillment

of the Requirements for the Degree

Bachelor of Science in Industrial Technology

PHILIP A. GONZAGA

PAUL LEONARD D. TAGBAGO

MARCH 2001

AKLATANG EMILIO AGUINALDO ARCHIVES



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ABSTRACT

Name of Institution: **De La Salle University – Dasmariñas**

Address: Dasmariñas, Cavite

TITLE: **Filtering and Purifying water in amore economical, innovative, and convenient way using activated carbons.**

AUTHORS: **Philip A. Gonzaga and Paul Leonard D. Tagbago**

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DATE STARTED: November 2001 DATE COMPLETED: January 2002

OBJECTIVES OF THE STUDY:

A. GENERAL:

To introduce an innovative way of purifying and filtering water using activated carbons.

B. SPECIFIC:

1. Determine the contaminants of tap water of Brgy. San Andres 1 DBB – C Dasmariñas, Cavite and its effects.
2. Identify the reported cases of water related illnesses in Brgy. San Andres 1 DBB – C Dasmariñas, Cavite.
3. Find out the needed solution or alternatives to eliminate or at least minimize the contaminants.

SCOPE AND COVERAGE:

The researchers' concern was on the specific contaminants and effects of the distributed water system in Brgy. San Andres 1 DBB – C Dasmariñas, Cavite. This study focused on the water-related aspects present in the said baranggay.

The study was based on the document gathered from the health record of Brgy. San Andres 1 DBB – C Dasmariñas, Cavite.



METHODOLOGY:

This study made use of actual observation regarding the appearance of the water distributed in Brgy. San Andres 1 DBB – C Dasmariñas, Cavite, and gathering of data was used in this study. There were no statistical tools used in this study.

The significance of this methods is to determine the applicability and the benefits of the propound water filter and purifier.

MAJOR FINDINGS:

After the researchers conducted their study, they found out that the water distributed in Brgy. San Andres 1 DBB – C Dasmariñas, Cavite is contaminated. And this contaminant causes the people of the said baranggay to suffer and experience water-related illnesses such as diarrhea, cholera, amoebiasis, etc.

CONCLUSIONS:

With the results of the major findings of the researchers, they figure out that it is really advisable for all households, particularly in Brgy. San Andres 1 DBB – C Dasmariñas, Cavite to utilize an apparatus that will cleanse all the water distributed on the said baranggay, to avoid all water - related illnesses. For the water distributed in the baranggay, according to the findings, are contaminated.

RECOMMENDATIONS:

Based on the findings of the proponents, they highly recommend all households specifically in Brgy. San Andres 1 DBB – C Dasmariñas, Cavite to utilize their home with the proposed Water filter and purifier using activated carbons to shun the people of the baranggay from any reported water – related illness.



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