



JOHN B. LACSON FOUNDATION
MARITIME UNIVERSITY - MOLO

**WATER ANALYSIS AND BIOSECURITY OF MARINE LIFE FORMS AT
ILOILO PORT AREA: AN EXPLORATORY STUDY**

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by

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ABSTRACT

This study dealt with water analysis and determined biosecurity of marine life forms at Iloilo Port Area. This is an exploratory study. Likewise this answered the following questions: 1) What are the different marine organisms that thrive on the waters of Iloilo Port area? 2) What substances are present in the Iloilo strait water sample in terms of DOs, pH, Temp, Oil and grease, Total Coliform, and Fecal Coliform? 3) What practices do people in the locality do to affect water quality and that will contribute to marine pollution? And 4) What measures can the residents suggest to prevent marine pollution? The descriptive method of research was employed in this investigation. The researchers personally visited the site and conducted the interview to the selected respondents, who were given ample time to answer. Their responses were transcribed, encoded, analyzed, and interpreted. They were also required to answer interview questions on the kind of marine organisms living in the water and the practices that the respondents do that will have an effect on the quality of water in the area or practices that may pose a threat on marine pollution. The following were the findings of the study. 1) Six (6) stations were utilized as sources of water sample. These locations were: Jordan Wharf, Colmenares Beach Resort, Between Sitio Puyo & Lawi, Rico Beach Resort, Sitio Lactawan, & Cabalagnan Wharf. The marine species that can be found in the area were small fish, crabs, shrimps, and



small water plants. 2) From the parameters of the standards observed on water quality, water extracted from Iloilo Strait is less healthy and may be detrimental to the living organisms. Amount of fecal coli forms is present in the water making it not fit for swimming. 3) Practices done by the people may be detrimental to the marine organisms and can contribute to marine pollution. 4) The top three suggested measures from the respondents were: establish MRF in each of the barangays concerned, educate the local people of the importance of proper garbage disposal, and monitor garbage disposal projects and make sure that these are practices and implemented well. Based on the findings, the following conclusions were drawn: 1) Residents have to be informed of the danger of getting and eating small fish found in the area. 2) Presence of coli forms and fecal coli forms as well as other microorganisms are dangerous signs that need immediate action on the part of the agencies concerned. 3) Improper waste disposal is rampant among the residents in the Port of Iloilo. 4) Measures have to be undertaken to assure solution to the garbage problem.

To our parents, for always instilling in us the importance of getting an education.

To our friends and colleagues, for the joy and laughter that we have shared.

And most of all, to the Almighty God, the source of everything, for His never-ending love and providence.