

ABSTRACT

This work was aimed at assessing microbial load of Idodo river in Enugu state Nigeria. The samples of river was obtained from the arc of low activity, and a place where human activities are very high. The samples were collected very early in the morning and afternoon. They were examined to determine the bacterial organisms that are pathogenic to man when they drink it from the samples were inoculated into media. Nutrient agar and MacConkey agar media and incubate at the temperature range (35°C - 37°C). The following organisms were isolated. *Streptococcus faecalis* - *Clostridium Perfringens*, *Rhodococcus coryli*, *Bifidobacteria*, *salmonella* spp. The study shows that appropriate care should be taken to protect the river from being contaminated by these organisms. The quantity of pathogenic organisms collected were more in the afternoon.

CHAPTER ONE

INTRODUCTION

1.1 BACKGROUND INFORMATION

Natural water whether surface ground water, river, ocean or lakes contains variety of micro-organisms. The sanitary quality of drinking water is affected by both variety and number of micro-organisms. The sanitary quality of drinking water is affected by both Variety and number of micro-organisms available.

River is fit for drinking if it does not contain any micro-organism that are pathogenic to man. The WHO (1958) published the international standard for drinking water, in it water for consumption should be free from pathogenic organisms.

According to Howel (1994). He defined bacterial gience examination of river as the process of identification of bacteria organisms in the river. The bacteria organisms are pathogenic to man when they drink it. Some of the causative agents are *Shigella dysenteriae*, *Vibrio cholera*, *Salmonella Typhi*, , *Salmonella Paratyphi*. Etc.

1.2 AIM AND OBJECTIVES OF THE STUDY

The aim of the study is to examine the micro-organisms in Idodo river. The specific objectives of the study are:

1. To identify the micro-organisms in the river.
2. To isolate the pathogenic organisms in the river.

1.3 STATEMENT OF PROBLEMS

The people that are using contaminated water are prone to different kinds of diseases. The diseases they suffered most are: dysentery, cholera, typhoid and paratyphoid. Etc. idodo river is likely to be contaminated at one time or the other due to human activities like washing, stooling, swimming etc. These activities are possible sources of pathogenic organisms when water or river is polluted it is no longer useful for human consumption and other domestic uses. Polluted river therefore is source of various kinds of health hazard.

1.4 HYPOTHESIS

H.O The river contains pathogenic micro-organisms.

H.I The river do not contain pathogenic micro-organisms

5.1 SIGNIFICANCE OF THE STUDY

Evaluation of micro-organisms from river sensitizing people on the beset way to dispose wastes so as to avoid communicable diseases that are caused by pathogenic organisms.

To make sure that, the river is suitable for whatever it is selected for, like domestic use, cooking and washing.

1.6 LIMITATION OF THE STUDY

Only Idodo river in Enugu metropolism is chosen for this work due to time constraint and financial setback.

BACHERIOLOGICAL EXAMINATION OF IDODO RIVER

The complete project material is available and ready for download. All what you need to do is to order for the complete material. The price for the material is NGN 3,000.00.

Make payment via bank transfer to Bank: Guaranteed Trust Bank, Account name: Emi-Aware technology, Account Number: 0424875728

Bank: Zenith Bank, Account name: Emi-Aware technology, Account Number: 1222004869

or visit the website and pay online. For more info: Visit <https://researchcub.info/payment-instruct.html>

After payment send your depositor's name, amount paid, project topic, email address or your phone number (in which instructions will sent to you to download the material) to +234 70 6329 8784 via text message/ whatsapp or Email address: info@allprojectmaterials.com.

Once payment is confirmed, the material will be sent to you immediately.

It takes 5min to 30min to confirm and send the material to you.

For more project topics and materials visit: <https://researchcub.info/> or For enquiries: info@allprojectmaterials.com or call/whatsapp: +234 70 6329 8784

Regards!!!