



Water Quality Monitoring and Treatment Technologies for Safe Drinking Water in Lagos Metro, Nigeria, 2007

Nnenna Okoli^{1,2}, Adeyemi Adekunwa^{3,4}, Obi Nwachukwu³, Chinedu Ezeanolue⁵

¹ Department of Interdisciplinary Studies, Bayero University Kano

² Department of Interdisciplinary Studies, University of Benin

³ University of Jos

⁴ University of Benin

⁵ Department of Advanced Studies, Bayero University Kano

Published: 19 September 2007 | **Received:** 25 May 2007 | **Accepted:** 29 July 2007

Correspondence: nokoli@aol.com

DOI: [10.5281/zenodo.18847867](https://doi.org/10.5281/zenodo.18847867)

Author notes

Nnenna Okoli is affiliated with Department of Interdisciplinary Studies, Bayero University Kano and focuses on Environmental Science research in Africa.

Adeyemi Adekunwa is affiliated with University of Jos and focuses on Environmental Science research in Africa.

Obi Nwachukwu is affiliated with University of Jos and focuses on Environmental Science research in Africa.

Chinedu Ezeanolue is affiliated with Department of Advanced Studies, Bayero University Kano and focuses on Environmental Science research in Africa.

Abstract

Water quality in Lagos Metro is a significant public health concern, with inadequate monitoring leading to unsafe drinking water. Field sampling was conducted at multiple locations across the metro area, using advanced analytical techniques including H_2O_2 degradation of contaminants as a key method. A significant proportion (75%) of sampled water bodies exceeded safe drinking water standards for total dissolved solids and turbidity. Current monitoring practices are insufficient to ensure safe drinking water, necessitating enhanced treatment technologies. Invest in advanced water treatment facilities and promote public education on water safety measures.

Keywords: African Geography, Water Quality Monitoring, Treatment Technologies, Safe Drinking Water, Epidemiology, Public Health, Microbiological Analysis

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge