



A Peer Reviewed International Journal of Asian
Academic Research Associates

AARJSH

**ASIAN ACADEMIC RESEARCH
JOURNAL OF SOCIAL
SCIENCE & HUMANITIES**



POLLUTION IMPACTS OF INDUSTRIES ALONG ELEYELE RIVER IN OLUYOLE INDUSTRIAL HOUSING ESTATE, IBADAN, NIGERIA

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Abstract

This study focuses on the impacts posed by the concentration of industries along Eleyele River, Oluyole Industrial Estate layout, Ibadan, Oyo State with respect to the quality of the water as related to human health and the aquatic ecosystem. Purposive sampling technique was used to sample water along the river channel. The samples were analyzed for pH, colour, turbidity, total suspended solids (TSS), total dissolved solids (TDS), dissolved oxygen (DO), chemical oxygen demand (COD), biochemical oxygen demand (BOD), total hardness, chloride, calcium, sulphate, and nitrate. Comparisons were made between the upstream part where there is no concentration of industries, the estate layout where industries are well concentrated and the downstream part towards where the river flows. Both descriptive (mean, line graph) and inferential (Student T-test) statistical technique was adopted to check the degree of pollution along the river course. The result revealed significant variations of parameters in the water samples from the analysis that the quality of the water available in the upstream part within WHO drinking water standard while that of the estate layout and the downstream part didn't fall within and risky for human health. It was however suggested that measures such as construction of industrial wastewater treatment plants and enactment of water use and management laws should be properly put in place to reduce such impacts and increase the quality of water available within the industrial region.

Keywords: Impact, Industrialization, Pollution, Nigeria, River, Water
