



SDI Review Form 1.6

Journal Name:	Journal of Geography, Environment and Earth Science International
Manuscript Number:	Ms_JGEESI_32939
Title of the Manuscript:	HYDROGEOCHEMICAL ASSESSMENT OF GROUNDWATER QUALITY IN OWERRI METROPOLIS, IMO STATE, SOUTHERN NIGERIA
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Compulsory REVISION comments	<p>The research aim and sampling strategies , analytical part is not clearly followed. Although some changes to be need for improving standards .</p> <p>No clear objective in abstract, please add and rewrite a constructive abstract.</p> <p>Introduction part is not enough, need more references in related to groundwater quality and should be add more recent literatures. Most of the line are taken into the some basic text books, it is no need for basic level and global level readers as well as researchers are not interested to this type write up.</p> <p>The study area needs more information's like land use and land cover, More hydrogeological conditions (surface and subsurface characters of lake) of the study region should be elaborately discussed. Soil characteristics (type), in subsurface lithological characters in specific on parent rocks are important parameters for identifying water quality surface as well as groundwater.</p> <p>Some more discussion on geochemistry in the study area can be added up. There is no need for detailed information about humidity, wind, and vegetation characteristics.</p>	



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	<p><u>In the methodology part</u>, authors not mentioned field measurements How to determine pH electrical conductivity and DO. Need detailed analytical techniques, instruments and software's used. The use of physico-chemical symbols throughout the manuscript is erratic and not consistent.</p> <p>Please include QA and QC taken throughout the study</p> <p>Mentioned the formula for the estimation of ionic balance error in the analytical method section.</p> <p>Must need improve the methodology.</p> <p><u>Results and Discussion part</u> mention year of WHO in the table.1</p> <p>Fig.1 Location map; need lat-long values, North Arrow, Scale bar, legend and National map</p> <p>Fig 2 is too general and not useful to this type of publications, in mu suggestion you can be properly mention and interpret in Fig.3 . so remove fig 2.</p> <p>Please explain why you can make Duruv plot, it have any significance in accordance this study, if have clearly discuss.</p> <p>Table-3 : highlight/bold the significant correlation values.</p> <p>Table-4. Mostly all the samples having TDS level is less than 100 mg/l, than why you can construct and classify this type of table.</p>	
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	<p>Gibbs plot, Wilcox plots are also important graphical representation for water quality studies.</p> <p>Trace elements characteristics are not properly discussed in the manuscript.</p> <p>Conclusion is not clear and there is no significant output present in the manuscript. Mention clear soundings and output of the research.</p>	
Minor REVISION comments		
Optional/General comments		

Reviewer Details:

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Department, University & Country	<i>Manonmaniam Sundaranar University, India</i>