

Review Form 1.7

Journal Name:	Asian Journal of Geological Research
Manuscript Number:	Ms_AJOGER_97519
Title of the Manuscript:	Geophysical Evaluation of the Impact of Solid Waste Dumpsite on the Groundwater in Ilokun, Ado-Ekiti Southwestern Nigeria
Type of the 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:

<https://journalajoger.com/index.php/AJOGER/editorial-policy>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Under the results and discussions, kindly note that QH curve type for VES 1 is a four layer curve and not 5-layer curve. It was specified that there are three curve types KHA,QH and HA in the study area, in the third line 3 of results and discussions, H type was specified as the predominant curve type which was not included as the curve type specified in the study area, kindly verify your interpretation.</p> <p>Kindly note that QH type and KHA type curves are typical characteristics of a confined fracture hidden in the basement.</p> <p>In VES 1,the major aquifer is the confined fracture and not the weathered layer The depth to basement was not specified in the discussion The authors need to specify VES point used as control point by referring to figure 1 in your methodology.</p> <p>VES 4,5,6,7 was not shown in Figure 1 and it was not also specified in the methodology, please check your interpretation of results.</p> <p>In the explanation of electrical resistivity imaging, the authors specified the 2D resistivity images using traverses while in figure 1,the authors specified profiles/lines, there should be uniformity in the use of either traverse or profiles, although they mean the same interpretation.</p> <p>Sampling points L1 to L14 in the geophysical data acquisition map, but the authors did not specify the analysis carried out on the samples collected from the dump site such as soil tests/geochemical tests, the authors need to ascertain the presence of leachates by also conducting soil tests/water tests/geochemical tests to determine the level of contamination on the groundwater, the authors need to be aware that the low resistivity values are diagnostic effect of different effects apart from leachate contamination such as effects of wet clay, therefore there is need to confirm the leachate contamination at the low resistivity regions by conducting further soil tests/geochemical tests, this improve the accuracy of the research findings.</p>	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	<p>There is need to rewrite the electrical resistivity imaging discussions by making it more comprehensive.</p>	
<p>Optional/General comments</p>		

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PART 2:

	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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Ibitoye Folahan Peter
Department, University & Country	Prototype Engineering Development Institute, Nigeria