Review Form 1.7

Journal Name:	**Journal of Geography, Environment and Earth Science International**
Manuscript Number:	**Ms_JGEESI_110189**
Title of the Manuscript:	**Vehicular Volume and Spatial Variation of gaseous atmospheric pollutants and Particulate Matter at Selected Road Junctions in Port Harcourt, Nigeria**
Type of the Article	**Original Research Article**

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)*
Compulsory REVISION comments **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.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	**1. Hard to quite know as the accuracy of the measurements are difficult to assess. I agree that Port Harcourt is an important site.** **2. I think "spatial variation" is not really what is done here, so would best be changed to "concentration"** **3. YES** **4. YES** **5. Not really, as the instrument is not sensitive enough to give a good picture of the SO2 NO2 concentrations, so it is hard to believe the low concentration values fond at the site. Carbon monoxide may be OK. Were there any attempts to calibrate the instrument against other monitors?** **6. No, the authors seem unaware of the enormous amount of work done in roadside environments. There are many studies that draw out subtle arguments about vehicle flow, type and numbers, some even see the patterns imposed by traffic flow across the intersection and the sequencing of traffic lights. As an example I think particularly of the work of Chu et al (2022). Kerbside NOx and CO concentrations and emission factors of vehicles on a busy road. *Atmospheric Environment*, 271, 118878 OR (2021). NOx and CO fluctuations in a busy street canyon. *Environments*, 8(12), 137.**	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	There are a number of scientific grammar issues (i) separate units and numbers! NOT as 2000mm to over 4000mm (ii) Chemical names are not capitalised (iii) Nouns like carbon monoxide should not take the possessive case (retain this for proper nouns is probably safest) NOT carbon monoxide's worst levels, but the worst levels of carbon monoxide	
Optional/General comments	Discussion of the soil etc seems irrelevant to the air pollution.	

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PART 2:

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

Reviewer Details:

Name:	**Peter Brimblecombe**
Department, University & Country	**National Sun Yat-sen University, Taiwan**