

Review Form 3

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| Journal Name: | International Journal of Environment and Climate Change |
| Manuscript Number: | Ms_IJECC_122686 |
| Title of the Manuscript: | Sustainable Groundwater Purification: Leveraging Local Materials for Lead, Iron, and Cyanide Removal in Ghanaian Mining Communities |
| Type of the Article | Original Research Article |

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

| Compulsory REVISION comments | Reviewer's comment | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|---|--|---|
| Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part. | This paper is scientifically informative. Safe/clean drinking water is a basic human right, however, its availability has been compromised in so many ways. Anthropogenic activities increase the risk of unavailability of safe drinking water. This not only raises awareness but also suggests an important remediation process | |
| Is the title of the article suitable? (If not please suggest an alternative title) | It's suitable | |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | Very well written | |
| Are subsections and structure of the manuscript appropriate? | Very well written. However, I suggest the title for chapter 2 to be 'Materials and Methods' instead of 'Methodology'. | |
| Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part. | The paper is scientifically sound. There is a clear introduction with a clearly stated problem. Data is collected and sufficiently analysed and discussed, and then relevant conclusions drawn. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | The references are sufficient even though more could be appreciated. They are also recent and well written | |
| Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications? | Language used is scientific and scholarly. However, the author should consider proofreading to correct on grammar (tenses), sentence structure and semantics. For example, the second last sentence under the subsection 'mapping and sample collection' needs to be written in its correct tense. | |
| Optional/General comments | <ul style="list-style-type: none"> - In the introduction the author should consider writing in brackets the chemical symbols of the elements/parameters - The sources of figures 1 – 5 and table 1 are not sited. It is necessary to acknowledge the sources. - How was salinity determined? Salinity is only mentioned in the results and not in the methods | |

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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:

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|----------------------------------|-----------------------------------|
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| Department, University & Country | Kenyatta University, Kenya |