

Review Form 3

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</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.	Manuscript raises the important issue of ensuring the appropriate quality of water intended for human drinking. The use of plants from the native country in water treatment tests may prove to be a key economic factor for the use of these plants on an industrial scale. Tests on a technical scale will be necessary.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title of the article is 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.	The abstract is comprehensive.	
Are subsections and structure of the manuscript appropriate?	The subsections and structure of the manuscript are appropriate.	
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 authors of the article made a great effort to collect as many as 480 samples. The strength of the article is also the carefully presented research methodology. However, the authors are asked to clarify a few issues: <ol style="list-style-type: none"> 1. How was the coagulation process carried out on a laboratory or industrial scale? How were Moringa oleifera seeds and banana peels prepared for the coagulation process? What doses of natural coagulants were used? What were the fast and slow mixing times and what was the sedimentation time after which the coagulation effect was tested? 2. Table number 2 presents the results of physicochemical tests of all collected samples in their original state and their maximum concentration values: for lead, they amounted to 1.806 mg/l and for cyanides, 2.410 mg/l. Please explain why in Table 4 these indicators before coagulation were higher than those presented in Table 2, respectively: 2.061 mg/l for Pb and 3.250 mg/l for CN? 	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	Please add 4-5 additional references to discuss the research results regarding the coagulation process.	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language/English is quality of the article suitable for scholarly communications	
Optional/General comments		

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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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