

### ReviewForm3

Journal Name:	<a href="#">InternationalResearchJournalofPureandApplied Chemistry</a>
ManuscriptNumber:	Ms_IRJPAC_128564
Titleof theManuscript:	Humanhealthrisksassessmentfromarsenic(As) in groundwater aroundindustrial gold mining area:a case studyin northernCôte'd'Ivoire, WestAfrica
Type of theArticle	

#### PART 1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	This manuscript provides crucial insights into the environmental and health risks associated with arsenic contamination in groundwater, particularly in regions with significant mining activities. The study's comprehensive assessment, including water quality analysis and human health risk assessment, highlights the potential dangers of exposure to arsenic-contaminated water. The findings underscore the urgent need for effective monitoring, mitigation, and remediation strategies to protect public health and the environment.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The current title is suitable as it clearly conveys the main focus of the research: assessing human health risks from arsenic in groundwater near an industrial gold mining area. However, here are a few alternative titles that you could consider: Arsenic Contamination and Human Health Risk Assessment in Groundwater Near a Gold Mine in Côte d'Ivoire Evaluating the Health Impact of Arsenic-Contaminated Groundwater in a Mining Region: A Case Study from Côte d'Ivoire Groundwater Arsenic Contamination and Human Health Risks: A Case Study from the Tongon Gold Mining Area, Côte d'Ivoire	
<b>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.</b>	The abstract is comprehensive and provides a clear overview of the research. It effectively summarizes the key points, including the research question, methodology, main findings, and implications. To further strengthen the abstract, consider adding a brief statement about the specific health risks associated with arsenic exposure, such as cancer and neurological disorders. This would provide additional context and emphasize the significance of the study's findings.	

**ReviewForm3**

<p><b>Isthemanuscriptscientifically,correct?Pleasewrite here.</b></p>	<p>The manuscript appearstobescientificallysound. The authorshave:</p> <ol style="list-style-type: none"> <li>1. Clearlyidentifiedesignificantenvironmentalhealth issueabout arseniccontamination ingroundwater nearaminingarea.</li> <li>2. Employedappropriatemethodologies:Water quality assessmentandhumanhealthriskassessmentusing recognizedmethodologies.</li> <li>3. Elevated arseniclevelsingroundwater,particularly inwellscler totheminingarea,andsignificant health risks, especiallyforchildren.</li> <li>4. The findingshighlight theneedforimmediateaction tomitigatethe adversehealthimpactsofarsenic exposure.</li> </ol> <p>However, tofurtherstrengthen thescientificrigorofthemanuscript,authoracknowledgeifanylimitations inthe study,suchassamplesize,samplinglocations,oranalyticalmethods,can enhancethe credibilityofthefindings.</p> <p>AlsoElaborateonthespecifichealth effectsassociatedwithchronicarsenicexposure,suchascancer, neurologicaldisorders, andcardiovasculardiseases.</p> <p>Authordiscussesthepossiblesourcesofarsenicinthegroundwater,suchasminingactivities,naturalgeological processes,oragriculturalpractices.Consider thefactorslikedietary intakeofarsenic,socio-economicfactors, andgeneticsusceptibilitythat mayinfluenceindividualhealthrisks.</p> <p>Byincorporating thesesuggestions, the manuscriptcanfurtherstrengthen itsscientificcredibilityandprovidea more comprehensiveunderstandingofthehealthrisksassociatedwitharseniccontaminationinthestudyarea.</p>	
<p><b>Arethereferencesufficientandrecent?Ifyouhave suggestionsofadditionalreferences,pleasemention theminthe reviewform.</b></p>	<p>Thereferencelistappears tobefufficientand includes agood mixof recentandrelevantstudies.However,to furtherstrengthenthereferencelist, considerincorporating somemore recentstudies,especiallythosethathave beenpublishedwithinthelast5 years.Also addreferencesfromreputableinternationalorganizationslikethe WorldHealthOrganization(WHO) or theUnitedNations EnvironmentProgramme(UNEP) toprovideglobal perspectivesonarseniccontaminationandhealthrisks.</p>	

### ReviewForm3

<b>Is the language/English quality of the article suitable for scholarly communications?</b>	<b>The language quality of the article appears to be suitable for scholarly communications.</b> The writing is clear, concise, and well-structured. The grammar and syntax are generally correct, and the vocabulary is appropriate for an academic audience.	
<b>Optional/General</b> comments		

### PART 2:

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

### Reviewer Details:

Name:	<b>Sanyogita Shahi</b>
Department, University & Country	<b>Kalinga University, India</b>