

Review Form 1.6

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_86138
Title of the Manuscript:	Assessment of Effective Groundwater Management in Parts of Sokoto Basin, North-Western Nigeria
Type of the Article	Review 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://www.journalcjast.com/index.php/CJAST/editorial-policy>)

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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	<p>This work focuses on groundwater modeling in the Sokoto Basin. The data for this study were obtained from the Sokoto Basin Authority (1970 to 2018). These were used for model set up, calibration and validation purposes. The flow model was subsequently setup as a predictive model for a 5-year period spanning January 2020 - December 2025.</p> <p>The authors use groundwater modeling techniques to help protect them by simulating their drainage and flow and by anticipating the risks of spreading contamination. The authors found that scenarios 2 and 4 are considered deployable for effective and long-term sustainable management of the groundwater resources within the study area (2020 – 2025).</p> <p>However, some remarks are made and to be taken into consideration in the final version of manuscript:</p> <ul style="list-style-type: none"> • The objective of the study is not clearly specified in the introduction • The text contains few bibliographical references, most of them are old, the most recent dates from 2017. • to enrich the introduction with recent references and to emphasize the importance of groundwater modeling • delete the sentence “To unravel the mystery out of groundwater “ in the introduction • the sentence “The groundwater heads in layers 1 at the end of the 7 years of simulation is presented in Figures 7” is repeated (p 9) • the legends of figures 4b, c and d are illegible. Figure 7 cited in the text of the article does not exist. • In conclusion, the authors must integrate the first results of the work and not only the results of the predictive model 2020 – 2025 <p>The authors are invited to rewrite the references according the guide of authors particularly in references section.</p>	
Minor REVISION comments		
Optional/General comments	The authors present here interesting results that we can recommend this article for publication with major corrections. Thus, the above remarks should be taken into account before the publication of the article.	

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?	<i>(If yes. Kindly please write down the ethical issues here in details)</i>	

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