



**Paper: “Comparative Analysis Of The Mapping Of The Vulnerability To Pollution Of Fissured Aquifers In Agboville Department By Drastic And SI Methods (South-East Of Côte d'Ivoire)”**

Corresponding Author: Gabriel Ake

Doi: 10.19044/esj.2020.v16n24p287

Peer review:

Reviewer 1: Koudou Aimé Jean Lorougnon Guédé University / Côte D'ivoire

Reviewer 2: Tairi, Abdellaali" Ibn Zohr university, Morocco

Published: 31.08.2020

# ***ESJ Manuscript Evaluation Form 2020***

This form is designed to summarize the manuscript peer review that you have completed and to ensure that you have considered all appropriate criteria in your review. Your review should provide a clear statement, to the authors and editors, of the modifications necessary before the paper can be published or the specific reasons for rejection.

Please respond within the appointed time so that we can give the authors timely responses and feedback.

NOTE: ESJ promotes peer review procedure based on scientific validity and technical quality of the paper (not perceived the impact). You are also not required to do proofreading of the paper. It could be recommended as part of the revision.

***ESJ editorial office would like to express its special gratitude for your time and efforts. Our editorial team is a substantial reason that stands ESJ out from the crowd!***

Reviewer Name: <b>KOUDOU Aimé</b>	
University/Country: <b>Jean Lorougnon Guédé University / Côte d'Ivoire</b>	
Date Manuscript Received: <b>08/07/2020</b>	Date Review Report Submitted: <b>19/07/2020</b>
Manuscript Title: <b>Mapping of the Vulnerability to Pollution of Fissured Aquifers in Agboville Department by Drastic and SI Methods (South-East of Côte d'Ivoire)</b>	
ESJ Manuscript Number: <b>38.07.2020</b>	
You agree your name is revealed to the author of the paper: <b>Yes</b>	
You approve, your name as a reviewer of this paper, is available in the "review history" of the paper: <b>Yes</b>	
You approve, this review report is available in the "review history" of the paper: <b>Yes</b>	

## **Evaluation Criteria:**

**Please give each evaluation item a numeric rating on a 5-point scale, along with a thorough explanation for each point rating.**

<i>Questions</i>	<i>Rating Result</i> [Poor] 1-5 [Excellent]
<b>1. The title is clear and it is adequate to the content of the article.</b>	<b>3</b>
<i>Proposal of title:</i> Comparative analysis of the Mapping of the Vulnerability to Pollution of Fissured Aquifers in Agboville Department by Drastic and SI Methods (South-East of Côte d'Ivoire)	
<b>2. The abstract clearly presents objects, methods and results.</b>	<b>4</b>
See the text	

<b>3. There are few grammatical errors and spelling mistakes in this article.</b>	<b>3</b>
Use the integrated functions of Word to write the equations of the text. Missing words in the mapping legend.	
<b>4. The study methods are explained clearly.</b>	<b>3</b>
Values of the parameters of the study area that been used for the development of DRASTIC and IS models do not appear in the text.  A table of synthesis of the values of these parameters in the text would bring more credibility to work carried out.  The method can be synthesized.	
<b>5. The body of the paper is clear and does not contain errors.</b>	<b>4</b>
The article is too long. It can be synthesized.	
<b>6. The conclusions or summary are accurate and supported by the content.</b>	<b>4</b>
See the text	
<b>7. The references are comprehensive and appropriate.</b>	<b>4</b>
To actualyse	

**Overall Recommendation** (mark an X with your recommendation) :

Accepted, no revision needed	
Accepted, minor revision needed	<b>X</b>
Return for major revision and resubmission	
Reject	

**Comments and Suggestions to the Author(s):**

The article is well written and fairly well structured. It is too long and therefore must be synthesized. The title should be rephrased to fit in with the work done. Authors should take into account comments and remarks made in annotation form in the article.

**Comments and Suggestions to the Editors Only:**

# ***ESJ Manuscript Evaluation Form 2020***

This form is designed to summarize the manuscript peer review that you have completed and to ensure that you have considered all appropriate criteria in your review. Your review should provide a clear statement, to the authors and editors, of the modifications necessary before the paper can be published or the specific reasons for rejection.

Please respond within the appointed time so that we can give the authors timely responses and feedback.

NOTE: ESJ promotes peer review procedure based on scientific validity and technical quality of the paper (not perceived the impact). You are also not required to do proofreading of the paper. It could be recommended as part of the revision.

***ESJ editorial office would like to express its special gratitude for your time and efforts. Our editorial team is a substantial reason that stands ESJ out from the crowd!***

Reviewer Name: Tairi Abdellaali	
University/Country: Ibn Zohr university	
Date Manuscript Received: July 14, 2020	Date Review Report Submitted:
Manuscript Title: Mapping of the Vulnerability to Pollution of Fissured Aquifers in Agboville Department by Drastic and SI Methods (South-East of Côte d'Ivoire)	
ESJ Manuscript Number: 0738/20	
You agree your name is revealed to the author of the paper:    Yes	
You approve, your name as a reviewer of this paper, is available in the “review history” of the paper:    Yes	
You approve, this review report is available in the “review history” of the paper:    Yes	

## **Evaluation Criteria:**

**Please give each evaluation item a numeric rating on a 5-point scale, along with a thorough explanation for each point rating.**

<i>Questions</i>	<b><i>Rating Result</i></b> [Poor] 1-5 [Excellent]
<b>1. The title is clear and it is adequate to the content of the article.</b>	<b>4</b>
Title is clear and it is adequate to the content of the article. only it is preferable to add the GIS to the title For example: GIS based groundwater vulnerability mapping and assessment in Agboville Department, using Drastic and SI methods (South-East of Côte d'Ivoire).	
<b>2. The abstract clearly presents objects, methods and results.</b>	<b>3</b>
The summary is clear, it clearly explains the objectives of the study, and the methods are sufficiently explained. Finally, the results are clearly stated. add GIS to the Key Words.	

<b>3. There are few grammatical errors and spelling mistakes in this article.</b>	<b>4</b>
There were some spelling mistakes	
<b>4. The study methods are explained clearly.</b>	<b>5</b>
The study methods is explained very clearly	
<b>5. The body of the paper is clear and does not contain errors.</b>	<b>3</b>
There are no errors in the body, it very clear. The body must contain comparison of the results with old studies especially in this area with identical conditions, by the same methods and also with other methods such as the GOD and SINTACS method	
<b>6. The conclusions or summary are accurate and supported by the content.</b>	<b>5</b>
The conclusion are accurate and supported by the content .	
<b>7. The references are comprehensive and appropriate.</b>	<b>5</b>
I think better to add more references if needed	

**Overall Recommendation** (mark an X with your recommendation) :

Accepted, no revision needed	
Accepted, minor revision needed	<b>X</b>
Return for major revision and resubmission	
Reject	

**Comments and Suggestions to the Author(s):**

The objective of this work is to map the vulnerability to pollution of cracked aquifers in the department of Agboville, using the DRASTIC and SI model and the geographic information system (GIS). And the superimposition of the spatial distribution map of nitrate levels in groundwater with the vulnerability maps established to distinguish the best methods that correlate with the distribution of nitrates. During the calculation in raster it is necessary to pay attention to the spatial resolution which must be identical for all the factors in raster format, to have a perfect superposition, otherwise the result will be unreliable.

**Comments and Suggestions to the Editors Only:**