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Submission to Groundwater for Sustainable Development - manuscript number

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Manuscript Number: GSD-D-21-00157

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Manuscript Number: GSD-D-21-00157

Assessment of mechanical dispersion effects on mixing zone under extreme saltwater intrusion

Dear Dr Badaruddin,

The above referenced manuscript will be handled by Editor-in-Chief Professor Prosun Bhattacharya .

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Your Submission GSD-D-21-00157

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Tue, 18 May 2021,
16:19

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CC: manish.env@gmail.com

Ref.: Ms. No. GSD-D-21-00157

Assessment of mechanical dispersion effects on mixing zone under extreme saltwater intrusion
Groundwater for Sustainable Development

Dear Dr Badaruddin,

Thank you for submitting your manuscript to Groundwater for Sustainable Development. I have received comments from reviewers on your manuscript. Your paper should become acceptable for publication pending suitable moderate revision and modification of the article in light of the appended reviewer comments.

When resubmitting your manuscript, please carefully consider all issues mentioned in the reviewers' comments, outline every change made point by point, and provide suitable rebuttals for any comments not addressed.

To submit your revised manuscript go to <https://www.editorialmanager.com/gsd/> and log in as an Author where you will see a menu item called 'Submission Needing Revision'.

Please resubmit your manuscript by Jul 17, 2021.

I look forward to receiving your revised manuscript.

Kind Regards,

Prosun Bhattacharya
Editor-in-Chief
Groundwater for Sustainable Development

Comments from the Editors and Reviewers:

Reviewer #1: Manuscript Number: GSD-D-21-00157

Title: Assessment of mechanical dispersion effects on mixing zone under extreme saltwater intrusion

Overall, this is an interesting topic related to saltwater intrusion problems. The paper is interesting and easy to read, and the research perfectly fits into the scope of the journal. However, before publication, moderate revision is needed. I recommend that authors improve some issues as mentioned in the following.

1. Highlight: replace "SI" with "saltwater intrusion"
2. Abstract: present some quantitative results of the study.
3. Introduction section ignores the systematic review of published work related to the subject of this paper and exploitation of the gap of knowledge in this field. Please conclude such needed expression before line 111.
4. Line 102-111: I recommend including a phrase with indicating the novelty and differences between this paper and similar research.
5. Lines 102-111: Please describe the necessity of (or advantages of) such investigation and why previous studies did not tackle to such application.
6. Lines 117-126: The definition of the considered SI indicators can be presented as the associated equations to better and clear definition of them.
7. Lines 117-156: This section can be shortened and the detailed explanations can be moved to figures and tables of this section.
8. Conclusion: It is not necessary to include too much information, rather than explains the major results. I recommend including a paragraph with indicating the contribution and differences between this paper and similar research and some information about how such investigation can be extended to other cases with other objectives.
9. Please explain how the findings of the results extend to the field and the considered case study and how those extend to other cases. What is the basis for the validity of such observation for other conditions?

Reviewer #2: Name of Journal: Groundwater for Sustainable Development

Title: Assessment of mechanical dispersion effects on mixing zone under extreme saltwater intrusion

Manuscript Number: GSD-D-21-00157

I would to thank the journal editor for giving me the opportunity to review this article and thanks to the authors for submitting their work in the GSD journal.

General comments:

The present work is nicely presented, and it is under the scope of the journal. Also, the manuscript is well written, and citation given whenever required throughout the manuscript. I would appreciate the efforts made by the authors and suggest a minor revision before it is considered for publication in the GSD journal. I hereby recommend that work is worthy to published in this journal after addressing the following comments.

Reduce the length of the sentences throughout the manuscript because it is hard to read the complete sentence. Please give equal weightage to the paragraph.

Specific Comments:

Highlights: Authors mention three highlights in the current manuscript, but they will not serve the purpose of highlighting their work in the future, so I would recommend please you rewrite the highlights. Highlights must highlight your research work and triggered the reader interest in the article.

Graphical abstract:

Please modify the graphical abstract; it does not give the sense of work that you have done in the article.

Abstract:

Line 18: Rephrase this sentence entirely.... The previous studies primarily identify the two types of SI processes like active SI (seawater intrusion) and passive SI (submarine groundwater discharge).

Line 30: The FHD abbreviation is redundant, please remove it.

Introduction:

Line 45: Please rephrase the line entirely

Line 47: The sentence is not clear; please rewrite "Mixing zones on SI delineate....."

Line 54: Not clear sentence "In passive SI, the hydraulic gradient inclines towards the sea, forcing density and fresh groundwater flow to work in opposite directions of what???"

Methodology:

Please mention on what basis the parameters in table 1 selected for the present work ; please give a proper explanation of each term so that the reader can understand its logic.

Results and discussion:

Slight confusion is happening in the result and discussion part while reading; I would suggest to the author please focus on this part and try to write as explicit as much as you can (Improvement is required). Please write like this Figure 2 (a, b and c) Figure 8 legends are missing.

Line 238: Please reduce the length of the sentence

Line 326: What is the seawater concentration (please explain in the manuscript)

Line 348: Please write "in this research work....."

Data in Brief (optional):

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Manuscript Number: GSD-D-21-00157R1

Assessment of mechanical dispersion effects on mixing zone under extreme saltwater intrusion

Dear Dr Badaruddin,

Thank you for submitting your manuscript to Groundwater for Sustainable Development.

I am pleased to inform you that your manuscript has been accepted for publication.

My comments, and any reviewer comments, are below.

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We appreciate you submitting your manuscript to Groundwater for Sustainable Development and hope you will consider us again for future submissions.

Kind regards,
Prosun Bhattacharya
Editor-in-Chief

Groundwater for Sustainable Development

Editor and Reviewer comments:

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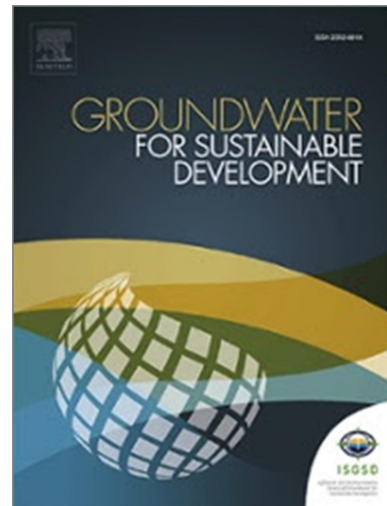
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