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Journal name: Sustainability  
Manuscript ID: sustainability-1027138  
Type of manuscript: Article  
Title: **Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia**  
Authors: Syafri Syafri \*, Batara Surya \*, Ridwan Ridwan, Syamsul Bahri, Emil Salim Rasyidi, Sudarman Sudarman  
Received: 20 November 2020  
E-mails: [syafri@universitasbosowa.ac.id](mailto:syafri@universitasbosowa.ac.id),  
[batara.surya@universitasbosowa.ac.id](mailto:batara.surya@universitasbosowa.ac.id), [ridwan@universitasbosowa.ac.id](mailto:ridwan@universitasbosowa.ac.id),  
[syamsul.bahri@universitasbosowa.ac.id](mailto:syamsul.bahri@universitasbosowa.ac.id), [emil.salim@universitasbosowa.ac.id](mailto:emil.salim@universitasbosowa.ac.id),  
[sudarman.abdullah@uin-alauddin.ac.id](mailto:sudarman.abdullah@uin-alauddin.ac.id)  
Submitted to section: Environmental Sustainability and Applications,  
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The following points were confirmed during submission:

1. Sustainability is an open access journal with publishing fees of 1800 CHF

## 2. Bukti Penerimaan dan pengiriman Naskah Ke Editorial



Your manuscript has been assigned to Andrijana Markovic for further processing who will act as a point of contact for any questions related to your paper.

Journal: Sustainability  
Manuscript ID: sustainability-1027138  
Title: **Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia**  
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Best regards,  
Andrijana Markovic  
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E-Mail: [andrijana.markovic@mdpi.com](mailto:andrijana.markovic@mdpi.com)  
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+381 11 414 75 40

### 3. Bukti Minor Revisi



Thank you for submitting your manuscript:

Manuscript ID: sustainability-1027138

Type of manuscript: Article

Title: **Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia**

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[batara.surya@universitasbosowa.ac.id](mailto:batara.surya@universitasbosowa.ac.id), [ridwan@universitasbosowa.ac.id](mailto:ridwan@universitasbosowa.ac.id),

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[sudarman.abdullah@uin-alauddin.ac.id](mailto:sudarman.abdullah@uin-alauddin.ac.id)

Submitted to section: Environmental Sustainability and Applications,

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Environmental Behaviour and Collective Decision Making

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It has been reviewed by experts in the field and we request that you make minor revisions before it is processed further. Please find your manuscript and the review reports at the following link:

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Kind regards,  
Andrijana Markovic  
Assistant Editor, MDPI DOO



Do not hesitate to contact us if you have any questions regarding the revision of your manuscript. We look forward to hearing from you soon.

Kind regards,  
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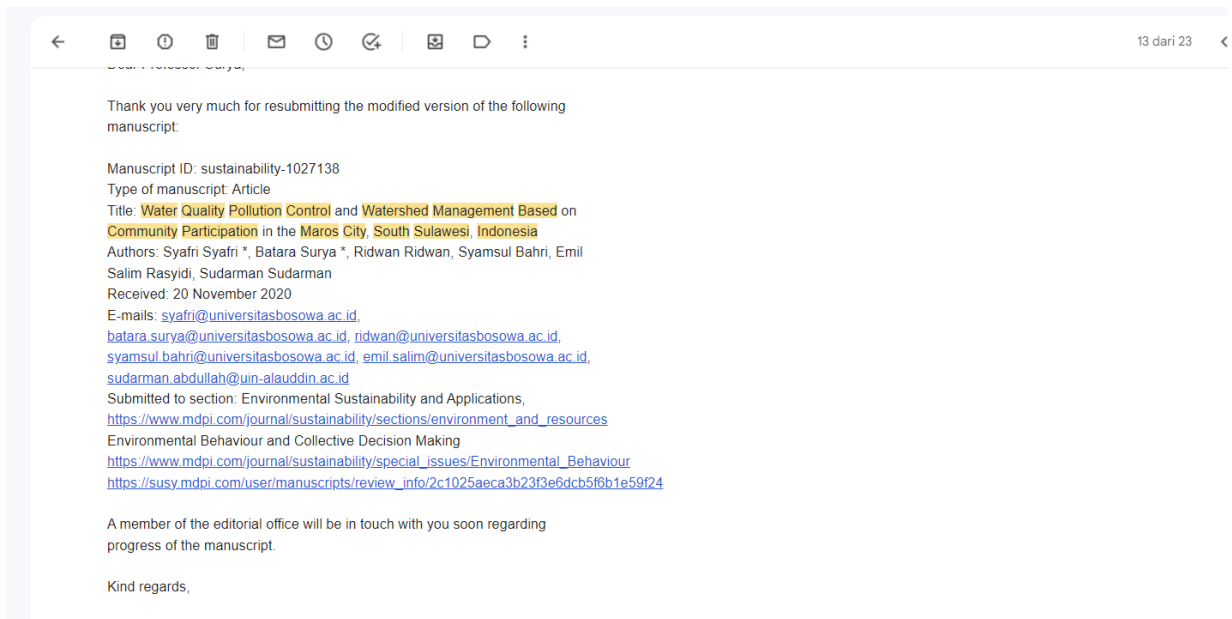
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## 4. Bukti Revision Manuscript Resubmitted



## 5. Bukti Revised Version Received

← 📄 ⌚ 🗑️ ✉️ ⌚ 🔄 📧 🗑️ ⋮ 12 d

Thank you very much for providing the revised version of your paper:

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[syamsul.bahri@universitasbosowa.ac.id](mailto:syamsul.bahri@universitasbosowa.ac.id), [emil.salim@universitasbosowa.ac.id](mailto:emil.salim@universitasbosowa.ac.id),  
[sudarman.abdullah@uin-alauddin.ac.id](mailto:sudarman.abdullah@uin-alauddin.ac.id)  
Submitted to section: Environmental Sustainability and Applications,  
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We will continue processing your paper and will keep you informed about the submission status.

Kind regards,

Andrijana Markovic  
Assistant Editor, MDPI DOO  
E-Mail: [andrijana.markovic@mdpi.com](mailto:andrijana.markovic@mdpi.com)

## 6. Bukti Accepted for Publication

← 📄 ⌚ 🗑️ ✉️ ⌚ 🔄 📧 🗑️ ⋮

We are pleased to inform you that the following paper has been officially accepted for publication:

Manuscript ID: sustainability-1027138  
Type of manuscript: Article  
Title: **Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia**  
Authors: Syafri Syafri \*, Batara Surya \*, Ridwan Ridwan, Syamsul Bahri, Emil Salim Rasyidi, Sudarman Sudarman  
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[syamsul.bahri@universitasbosowa.ac.id](mailto:syamsul.bahri@universitasbosowa.ac.id), [emil.salim@universitasbosowa.ac.id](mailto:emil.salim@universitasbosowa.ac.id),  
[sudarman.abdullah@uin-alauddin.ac.id](mailto:sudarman.abdullah@uin-alauddin.ac.id)  
Submitted to section: Environmental Sustainability and Applications,  
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Manuscript ID: sustainability-1027138

Type of manuscript: Article

Title: **Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia**

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Received: 20 November 2020

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Kind regards,

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Type of manuscript: Article  
Title: **Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia**  
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A member of the editorial office will be in touch with you soon regarding progress of the manuscript.

Kind regards,

MDPI

## 9. Bukti Konfirmasi Authors Contributions



Can you please define me the Authors Contributions, because we have two authors with the same initials S.S. Please inform me which are the contributions from Dr. Syafri Syafri and Mr. Sudarman Sudarman.

Thank you in advance.

Looking forward to hearing from you soon.

Kind regards,

Ms. Andrijana Markovic  
Assistant Editor, MDPI DOO  
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7 dari 23 <

Dear Authors,

We are pleased to inform you that your article "**Water Quality Pollution Control and Watershed Management Based on Community Participation in Maros City, South Sulawesi, Indonesia**" has been published in Sustainability as part of the Special Issue Environmental Behaviour and Collective Decision Making and is available online:

Abstract: <https://www.mdpi.com/2071-1050/12/24/10260>

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## Water Quality Pollution Control and Watershed Management Based on Community Participation in Maros City, South Sulawesi, Indonesia

Syafri Syafri; Batara Surya; Ridwan Ridwan; Syamsul Bahri; Emil Salim Rasyidi; Sudarman Sudarman

*Sustainability* 2020, Volume 12, Issue 24, 10260

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### Manuscript Information

Received Date 20 November 2020  
Revised Date 7 December 2020  
Accepted Date 7 December 2020  
Published Date 8 December 2020  
Submission to First Decision (Days) 17  
Submission to Publication (Days) 17  
Round of Revision 1  
Size of PDF 130734 KIB  
Word Count 15418  
Page Count 38  
Figure Count 13  
Table Count 7  
Reference Count 113  
Citations 9

### Editor Decision

Decision **Accept in current form**  
Comments Dear Authors, thank you for revising your ms "Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia" based on the comments of the Reviewers. I am pleased to inform you that your ms is now suitable for publication in Sustainability. With Best Regards Ralph Hansmann (Please note that I found a typo error in the abstract that needs to be corrected with the article proofs before publication. The study findings show that in land use change -> should be "land use change")  
Decision Date 7 December 2020

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### Review Report

Reviewer 1 [Review Report \(Round 1\)](#)  
Reviewer 2 [Review Report \(Round 1\)](#)

### APC information

Journal APC: 1,800.00 CHF  
Total Payment Amount: 1,800.00 CHF

### Previously Published Papers

Surya, B.; Hadjih, H.; Suriani, S.; Baharuddin, B.; Fitriyah, A.T.; Menne, F.; Rasyidi, E.S. Spatial Transformation of a New City in 2006–2020: Perspectives on the Spatial Dynamics, Environmental Quality Degradation, and Socio—Economic Sustainability of Local Communities in Makassar City, Indonesia. *Land* **2020**, *9*, 324. doi: 10.3390/land9090324

Surya, B.; Hamsina, H.; Ridwan, R.; Baharuddin, B.; Menne, F.; Fitriyah, A.T.; Rasyidi, E.S. The Complexity of Space Utilization and Environmental Pollution Control in the Main Corridor of Makassar City, South Sulawesi, Indonesia. *Sustainability* **2020**, *12*, 9244. doi: 10.3390/su12219244

# Review Report 1

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Journal Sustainability (ISSN 2071-1050)

Manuscript ID sustainability-1027138

Type Article

Title Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia

Authors Syafri Syafri \* , Batara Surya \* , Ridwan Ridwan , Syamsul Bahri , Emil Salim Rasyidi , Sudarman Sudarman

Section Environmental Sustainability and Applications

Special Issue Environmental Behaviour and Collective Decision Making

Abstract Increases in the number of urban residents have significant impacts on spatial pressure, affecting the utilization of river basins. The purpose of this study is to analyze (1) the increase in population and changes in spatial use as determinants of the complexity of the watershed ecosystem; (2) the effect of housing development, urban activity systems, and land-use changes on the degradation of the environmental quality of the watershed; and (3) the direct and indirect effects of changes in spatial use, land reclamation, and community behavior on water pollution and the sustainability of watershed management in Maros City. The research method used is a sequential explanatory design combining quantitative and qualitative research methods. Data were obtained through observation, in-depth interviews, surveys, and documentation. The study findings show that in land use change, complexity of spatial use, and community behavior have a negative impact on the environmental quality of the watershed. Housing development, urban activity systems, and changes in land-use had a significant effect on environmental quality degradation, with a coefficient of determination of 73.9%. Furthermore, the influence of spatial use, land reclamation, and community behavior on water pollution in the watershed was 72.82%. This study may serve to assist the decision-making of and policy formation by the Maros Regency Government in the framework of controlling the use of watersheds, working towards their social, economic, and environmental sustainability.

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Authors' Responses to Reviewer's Comments (Reviewer 1)

Author's Notes Dear Reviewer

We hereby thank you very much for suggestions, criticism, and input for improving the article. Furthermore, we have followed up on suggestions, criticism, and input with the following explanation:

Authors' Responses to Reviewer's Comments (Reviewer 1)

Author's Notes Dear Reviewer

We hereby thank you very much for suggestions, criticism, and input for improving the article. Furthermore, we have followed up on suggestions, criticism, and input with the following explanation:

- Additional explanations that show where our study differs from previous studies are described in the introduction (page 3).
- The deepening of our methodology has been sharpened regarding the suggestion and input we received, with explanations: (a) sharpening research observations (page 9), (b) sharpening in-depth interviews (page 10), (c) sharpening questionnaires (page 10), and (d) sharpening documentation (page 11).
- In accordance with the suggestion and input, we have correlated the result of the research with the methodology we use, namely those related to the observation data, the in-depth interviews that we use and the data from documentation. The explanation related to this we have refined in the part of the data obtained through observation, in-depth interviews, questionnaires, and documentation data.

That is what we need to convey, hopefully the improvements we have are in accordance with the suggestions and input from the reviewer. We thank you once again for the suggestions, criticism, and input given.

Regards,

Author

Author's Notes File Report Notes

Review Report Form

**Open Review**  I would not like to sign my review report  
 I would like to sign my review report

Review Report Form

- Open Review**  I would not like to sign my review report  
 I would like to sign my review report
- Quality of English Language  English very difficult to understand/incomprehensible  
 Extensive editing of English language and style required  
 Moderate English changes required  
 English language and style are fine/minor spell check required  
 I am not qualified to assess the quality of English in this paper

	Yes	Can be improved	Must be improved	Not applicable
Is the content succinctly described and contextualized with respect to previous and present theoretical background and empirical research (if applicable) on the topic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the research design, questions, hypotheses and methods clearly stated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are the arguments and discussion of findings coherent, balanced and compelling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Is the article adequately referenced?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the conclusions thoroughly supported by the results presented in the article or referenced in secondary literature?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments and Suggestions for Authors Thank you for the opportunity to read the paper "Water Quality Pollution Control and Watershed

Are the conclusions thoroughly supported by the results presented in the article or referenced in secondary literature?

Comments and Suggestions for Authors Thank you for the opportunity to read the paper "Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia". It is interesting and offer useful information for water quality pollution control and watershed management in this area. However, there are some concerns that need to be addressed.

Overall, from my point of view, the present study is very complex and difficult to read because it integrates the results of four types of research and also presents too many details/ results that are difficult to understand by readers less familiar with these concepts.

In the section Introduction I suggest the authors to highlight the novelty/ originality of the paper. How does this research differ from other previous studies?

I understand that the authors combine four types of research: observation, in-depth interviews, surveys, and documentation. However, the methodology is not clearly explained. I didn't understand how the authors proceeded to collect the data and who are the respondents (demographic data about them)? I also suggest the authors to provide more details about the questionnaire used and the interview guide (eventually in Appendix).

Moreover, the results in section 4 cannot be correlated with the methodology section. In other words, which part(s) of the Results section is related to observation, which part is related to the in-depth interviews/ quantitative research/ documentation?

Good luck!

Submission Date 20 November 2020  
Date of this review 29 Nov 2020 19:21:31



# Review Report 2

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Journal Sustainability (ISSN 2071-1050)  
 Manuscript ID sustainability-1027138  
 Type Article  
 Title Water Quality Pollution Control and Watershed Management Based on Community Participation in the Maros City, South Sulawesi, Indonesia  
 Authors Syafri Syafri \*, Batara Surya \*, Ridwan Ridwan , Syamsul Bahri , Emil Salim Rasyidi , Sudarman Sudarman  
 Section Environmental Sustainability and Applications  
 Special Issue Environmental Behaviour and Collective Decision Making  
 Abstract Increases in the number of urban residents have significant impacts on spatial pressure, affecting the utilization of river basins. The purpose of this study is to analyze (1) the increase in population and changes in spatial use as determinants of the complexity of the watershed ecosystem, (2) the effect of housing development, urban activity systems, and land-use changes on the degradation of the environmental quality of the watershed; and (3) the direct and indirect effects of changes in spatial use, land reclamation, and community behavior on water pollution and the sustainability of watershed management in Maros City. The research method used is a sequential explanatory design combining quantitative and qualitative research methods. Data were obtained through observation, in-depth interviews, surveys, and documentation. The study findings show that in land use change, complexity of spatial use, and community behavior have a negative impact on the environmental quality of the watershed. Housing development, urban activity systems, and changes in land-use had a significant effect on environmental quality degradation, with a coefficient of determination of 73.9%. Furthermore, the influence of spatial use, land reclamation, and community behavior on water pollution in the watershed was 72.82%. This study may serve to assist the decision-making of and policy formation by the Maros Regency Government in the framework of controlling the use of watersheds, working towards their social, economic, and environmental sustainability.

The coverletter for this review report has been saved in the database. You can safely close this window.

Authors' Responses to Reviewer's Comments (Reviewer 2)

Authors' Responses to Reviewer's Comments (Reviewer 2)

Author's Notes Dear Reviewer

Herewith we thank you very much for your very valuable suggestions and input for improving our article. Furthermore, we have added the substance according to the suggestions and input from reviewer. We include the sharpening of the substance in the results section of the study (page 22-23). Thank you for your very valuable suggestions and input for improving our article.

Regards,  
 Author

Author's Notes File Report Notes

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 I would like to sign my review report

Quality of English  English very difficult to understand/incomprehensible  
 Language  Extensive editing of English language and style required  
 Moderate English changes required  
 English language and style are fine/minor spell check required  
 I am not qualified to assess the quality of English in this paper

	Yes	Can be improved	Must be improved	Not applicable
Is the content succinctly described and contextualized with respect to previous and present theoretical background and empirical research (if applicable) on the topic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Are the research design, questions, hypotheses and methods clearly stated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the arguments and discussion of findings coherent, balanced and compelling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Is the article adequately referenced?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the conclusions thoroughly supported by the results presented in the article or referenced in secondary literature?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments and Suggestions for Authors This study deals with an exciting topic: Water Quality Pollution Control and Watershed Management Based on Community Participation.

It is a fascinating paper. Honestly, I have no objection. The authors have produced a very extensive, rigorous, and complete manuscript. It is necessary to recognise the difficulty in tackling a subject as complex as the management of hydrographic basins and the problems of water pollution.

Submission Date 20 November 2020  
 Date of this review 29 Nov 2020 03:08:48