



### Status

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### Submission Metadata

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**Affiliation** Department of Agribusiness Management, Graduate School of Agriculture, Tokyo University of Agriculture  
**Country** Japan  
**Bio Statement** -

**Title and Abstract**

**Title** Contamination of Heavy Metals (Pb and Cu) at Tin Sea Mining Field and Its Impact to Marine Tourism and Fisheries

**Abstract** The dynamics of heavy metals (Pb and Cu) distribution near sea mining locations can show a negative impact on fisheries resource management. The study was conducted at the coastal area of Tanah Merah Beach, Central Bangka Regency, the geographical location at 02°12'50" S and 106°13'00" E. This study aims to determine the extent of heavy metals (Pb and Cu) distribution adjacent sea mining field and its impact on marine tourism and fisheries. Purposive sampling method was used to identify the sampling locations from 13 closest locations to the farthest from marine mining sources. The result show that the closest and farthest Pb and Cu values from the tin mining activities were 0.16 mg.L<sup>-1</sup>; 0.03 mg.L<sup>-1</sup> and 0.02 mg.L<sup>-1</sup>; <0.003 mg.L<sup>-1</sup>. The Hydro-oceanographic conditions from the highest to the lowest water currents of 0.03 m.s<sup>-1</sup> - 0.001 m.s<sup>-1</sup>. This research represented the east monsoon, which showed that the heavy metal distributions dynamics are not too distance-reaching due to weak water currents, so that the dilution and sedimentation rate is slow. It is stated that the waters are polluted where the highest contamination value is indicated by the location closest to the source of marine mining and further weakened at the location farthest from the source of pollutants. Environmental impact from that activity has significantly threatened marine tourism and fishery activities by reducing economic benefits that given from marine and coastal environmental. Urgently, it is necessary to regulate like zoning tin mining activities and sites for the sustainable common purposes and prevent conflicts.

**Notice** -  
**Original DOI** -

**Indexing**

**Keywords** distributions; environmental impact; heavy metal; mining; Pb and Cu  
**Language** en

**Supporting Agencies / Funders**

**Agencies/Funders** -  
**Agencies/Funders Doi** -





Home / User / Author / Submissions / #37219 / Review

## #37219 Review

Summary Review Editing

### Submission

Authors: Sudirman Adibrata, Muh. Yusuf, Irvani Irvani, Maulana Firdaus  
Title: Contamination of Heavy Metals (Pb and Cu) at Tin Sea Mining Field and Its Impact to Marine Tourism and Fisheries  
Section: Research Articles  
Editor: Indonesian Journal of Marine Science

### Peer Review

#### Round 1

Review Version: 37219-112477-1-RV.docx 11-03-2021  
Initiated: 01-04-2021  
Last modified: 13-04-2021  
Uploaded file: Reviewer B 37219-114085-1-RV.doc 01-04-2021

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### Submission

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### Editor Decision

Decision: Accept Submission 27-05-2021  
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Editor Version: None  
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37219-113012-2-ED.docx 05-04-2021  
37219-113012-3-ED.docx 05-04-2021  
37219-113012-4-ED.docx 17-05-2021

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## #37219 Editing

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### Layout

Galley Format	File
1. PDF <a href="#">View Proof</a>	<a href="#">37219-118278-2-PB.pdf</a> 28-05-2021 0
Supplementary Files	File
1. Data dari laboratorium Baristan Palembang	<a href="#">37219-112476-1-SP.pdf</a> 11-03-2021

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