

Interactive comment on “Determination of heavy metal fractions in the sediments of oxbow lakes to detect the human impact on the fluvial system (Tisza River, SE Hungary)” by M. Tamás and A. Farsang

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Answer to comment on “Determination of heavy metal fractions in the sediments of oxbow lakes to detect the human impact on the fluvial system (Tisza River, SE Hungary)” by M. Tamás and A. Farsang

Answer to Anonymous Referee #1

Thank you for the Referees, that they found our article worthy to be considered amongst researchers interested in environmental chemistry.

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"The paper focuses too much on presenting the analytical results. There is almost no discussion about the environmental implications of the findings." – We do not wish to shorten the analytical results, but we agree that the discussion, seeing that the visualization of the results of environmental impacts to be strengthen and discussion part to be amended. "There are several language issues throughout the text, making it sometimes difficult to understand what the authors are attempting to say. There are also several spelling errors. The paper would thus benefit from a thorough revision."- The linguistic issues will be corrected and reviewed by a native speaker. "There are also problems with the structure of the paper. The objectives are not clearly stated. Methods are described in the introduction and new results are presented in the discussion section." – We will review the structure of the article and we will apply the re-structuring suggested by the Referee. Other minor problems include: "Abstract: lack of definition of BCR when it first appears." – We will cite the definition. "Introduction: the description of oxbow lakes is not very clear, especially the ones "inside the dams", it took me a while to understand what were the dams" – We will fix the definition. "Introduction: references are sometimes displayed incorrectly in the body of the text and do not correspond to what is listed in the respective section (ex. Tamás et al., 2012, instead of Tamás and Farsang, 2012)" – We will fix it. "Study area: for those unfamiliar with the study region, some descriptions are not very clear, for example, "cutoff number 84 in 1860"; the authors should provide some explanation" – We will provide the necessary explanations. "Study area: a description of Lower-Tisza area characteristics that could influence the findings should be presented, including factors leading to the contamination of the oxbow lakes" – The description of Lower-Tisza area characteristics that could influence the findings will be amended to the article. "Figure 1, which illustrates the study area, needs to be improved. It lacks an overall reference of the study area location, a clear scale, and a legend indicating what the lines represent." – Correction of Figure 1 will be applied. "Results: Discussion paper: results in paragraph 1 are associated to references of other studies. The results presented are not original? Or what is the innovative aspect of the work under review?" – Some small part of the result

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has already published, because the new result on built on previous results. "Results: Discussion: as mentioned before, in the discussion section, processes that can influence the observed results and differences between oxbow lake types are very poorly explored." – We will amend the implications and conclusions of the article.

Thanks for the Referees for their suggestions to improve our article.

Szeged, 2016. September 27.

Regards:

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