

## List of comments and corrections for the Lagos Research Paper

### Abstract

Line 1-2 : where is the location of the research/study area? Country, state, province etc?

Line 8-9: This coordinate won't help! Provide the location in details.

Line 11. Time interval of sampling not clear. From when to which date? Seasons???

Line 13: leaching method? Which method was used? EPA? European???

Line 16-18: GRAMMAR: eliminate the word "ranges". Redundancy. The concentration (mg/kg) showed for Pb (nd – 15.35) etc.

Line 19-21: FORMAT: the result of grain size analysis should be after sieving line 12

Line 21-24: SENTENCE STRUCTURE: meaning of sentence(s) not clear

### Key words

**Line 35-37:** reduce the number of key words and check the lower/upper case use

### Introduction

**Line 41-43:** Why use of sediment for evaluation of contaminants and their toxicity is important? Please check the following paper: The Geochemistry of Heavy Metals in the Mudflat of Salinas de San Pedro Lagoon, California, USA; **Journal of Environmental Protection** Vol.4 No.1, Pub. Date: January 25, 2013 by Rezaie-Boroon et al.

**Line 52-63:** SENTENCE STRUCTURE: need to check the structure of sentences and merge different sentences together since they share the same objectives

### Material and methods

Add QA/QC section for analysis. Did you calibrate the lab devices? How? Explain in QA. Did you use blank/duplicates of leachates ? explain?

**Line 65:** Uniform format ( you had previously INTRODUCTION (upper case) and now "Material and methods" (lower case) : make sure to make them uniform!

**Line 68:** I would put only the name of location, state, and country and approximate coordinates. I would also add the degree and minutes of latitude and longitude measured in the area of sampling.

**Line 69-71:** the location of sampling is not clear. Just write a simple sentence where they are. Refer to the figure 1.

**Line 82:** you have not discussed the figure 2!

**Line 89:** The method you referred to [10] is for water and waste water treatment not sediment! [I am not familiar with this reference. You better check with EPA method. It may be similar. At which depth did you take sediments?

**Line 92:** for how long did you put it in oven? What is the weight loss? Did you measure LOI (loss of ignition)

**Line 93-101:** I wonder why you don't discuss the grain size analysis before AAS method; you discuss it though previously in this section (line 88)

### **3. Results and discussion**

**Line 110 and 111:** reference?

**Line 112:** I would suggest to bring the particle size plot (section 3.5.1) back to this part since you are referring to the figure 7-12.

**Line 117:** Uniform the use of units for grain size analysis. Previously you used "mm"

**Line 119:** Overall, in the result section you suppose to use the "Past Tense" of the verbs using for explaining the results; for example Skewness values **RANGED** from ....

#### **Trace element geochemistry**

**Line 129:** Ni and Zn usually not considered trace metals. You may refer to major elements or for Cr, Cd etc. as heavy metals

**Line 132:** What is the average shale concentration (ASC) as proposed by [12,13]??? I would put them in a table and compare.

**Line 133:** you did not mentioned Mn in your results??

**Line 139:** Check meaning of "However??? ....."

**Line 145:** check sentence structure; ")" too much!

**Line 150:** you have not mentioned Figure 3.

**Line 150:** check figure format ,figure not clear, you don't have to put unit all over places...

**Line 155:** figure 4: the abbreviations are not clear

**Line 157:** 3.3 Quality of Lagos Lagoon Sediments: this title is vague! What do you mean with quality?? You are talking about the quality already by explaining all the results. You may eliminate this title.

**Line 163:** I would suggest explaining the CF in Methods section as to what it is and how we use it in this paper and why etc. and then here we just discuss the results and discussion of results.

Besides you talked about the CF in figure 3 already!

**Line 166:** grammar: Modified from???

**Line 171:** Figure 3 and figure 5 are the same!!! PROOFREAD! You need to check this before sending for reviewing!!

**Line 175:** What is EF????

**Line 183:** what do you mean with “inorganic metals”?????

**Line 212:** 3.5 Multivariate statistical methods ; should be discussed here!

**Line 266:** not all pairs are correlating strongly with high correlation Coefficient. Check Fe-Cr and Fe-Zn

**Line 270:** Fe-Cr is significantly correlated????  $R=0.63$ ????

**Line 276-277:** you have not referred to these tables in the text.

**Line 282:** What is Scree plot? Not mentioned in the text though. What is used for?

**Line 284:** what is table? **Eigen values constitutes**???? Why do you use it? It was not mentioned in the text.

**Line 317: Hierarchical Cluster Analysis (HCA):** Which software was used to do HCA?

**Line 331:** proof read this line!

**Line 331-331:** this sentence is completely isolated from entire article topic. I really do not understand the connection between this paragraph and the article topic.