



**SDI Review Form 1.6**

**PART 1:**

Journal Name:	<a href="#">American Chemical Science Journal</a>
Manuscript Number:	2013_ACSj_3913
Title of the Manuscript:	Persistent organochlorine compounds in the water and sediments from the Bosuntwi Lake in Ghana

**General guideline for Peer Review process is available in this link:**

**(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)**

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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### **PART 2: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b><u>Compulsory</u></b> REVISION comments	<p>The name of the Lake is correctly called as either of the following: “Bosumtwi” or “Bosumtwe” or “Bosomtwe”. The authors used the word “Bosuntwi” which is incorrect. The title should thus read as “Persistent organochlorine compounds in the water and sediments from the <b>Bosumtwi</b> Lake in Ghana.</p> <p>Line 37 (abstract) should read as “Representative samples were extracted with suitable <b>solvent systems</b> for the organochlorine compounds.</p> <p>The style of references should be consistent.</p> <p>There are many sentences wrongly constructed which should be thoroughly looked at.</p> <p>Lines 102-107: This is factually incorrect. It's only PCBs that are billed to be eliminated by 2025. Ghana has already developed a comprehensive National Implementation Plan for the elimination and reduction of POPs. Please see <a href="http://www.pops.int">www.pops.int</a> to download a copy of Ghana NIP. It should also be noted that not all POPs can be eliminated (e.g PCDDs/PCDFs).</p> <p>Lines 175-181 is confusing: Less than 15 pesticides can be counted whilst more than 5 indicator PCBs are listed. o,p-DDE, o,p-DDD for example are not mentioned as part of analytes detected but are said to be below detection levels in some of the samples</p>	<p>We agree. The correct name can be Bosumtwi or Bosumtwe or Bosomtwi or Bosomtwe.</p> <p>We agree. Correction done</p> <p>We agree. Correction done</p> <p>There is no confusion. Eight organochlorine pesticides were detected in the water samples. In the sediments sixteen organochlorine pesticides were detected. For the PCBs four were detected in water and five in sediments.</p>



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	<p>There was no discussion about Figure 1 (Total pesticides). How was the total pesticide calculated? Not shown in Table 1.</p> <p>Discussions centred on variations of OC's in sediments only. What about the water phase?</p>	<p>Total pesticide load was calculated by summing up the levels of individual pesticide detected at each sampling location.</p> <p>This is because few OCs were detected in the water phase. Discussions on variations of OCs in water samples will therefore not make much relevance.</p>
<b><u>Minor</u></b> REVISION comments	<p>The authors should review the manuscript by carefully following the format of presentation provided by the publishers.</p> <p>It is suggested that LOD in Tables should be replaced by the actual value.</p> <p>It is also suggested that the Tables should contain: Sum of HCHs; Sum of DDTs; individual indicator PCBs and then Sum PCBs</p>	<p>Suggestion has been considered</p> <p>Suggestion has been considered</p>
<b><u>Optional/General</u></b> comments	<p>I suggest that next time authors include the PCB congener 118 which is a very good measure of toxicity and as recommended by the Stockholm Convention</p>	<p>Suggestion would be considered in our future investigation</p>