

Review of: "Regulatory Compliance of PCDD/F Emissions by a Municipal Solid Waste Incinerator: A Case Study in Sant Adrià de Besòs, Catalonia, Spain"

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Potential competing interests: No potential competing interests to declare.

The study is an original and rigorous scientific work, written in correct English, in which data from previous studies (by the same authors) is used to support a dissertation on environmental pollution caused by the presence of municipal solid waste incineration facilities. The work is both interesting and necessary, as it shows historical and long-term data that allow us to reflect on the environmental impact of these types of installations. Furthermore, the article discusses the different pollution mitigation devices used over time in the incinerator under study. The article is appropriate for the scope of the journal and is accepted for publication following minor revisions. Some suggestions are provided below to assist the reader in better understanding some of the concepts mentioned in the paper.

In the abstract, it is stated that dioxin emissions from a municipal waste incinerator have been monitored. It is unclear whether this constitutes a monitoring of the emissions themselves or a monitoring of the state of pollution resulting from the emissions. Furthermore, the text indicates values in the air that should be considered as immission levels. It is therefore important to clarify these concepts in order to avoid confusion among readers. The same concept is repeated in the last paragraph of the introduction, in the objectives of the work.

Page 4: It is unclear how the value of 5 ng/kg was selected as a reference value. Are there any other values set by an international organisation?

Pages 5 and 8: The levels of dioxins found in the environment are attributed to the incinerator, but at the same time, it is indicated that there are other sources of contamination. What are these other sources? What impact do they have on the levels of contamination? It should be pointed out that we are in an area with a lot of urban activity and industrial diversity with multiple impacts.

Figure 2 shows the results of the risk analyses. More information should be provided on how these analyses were carried out. For example, hazards considered, routes and pathways of exposure considered, type of population, etc.