

Accepted Manuscript

Contributions of trace elements to the sea by small uncontaminated rivers: effects of a water reservoir and a wastewater treatment plant

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PII: S0045-6535(17)30418-6

DOI: 10.1016/j.chemosphere.2017.03.053

Reference: CHEM 18971

To appear in: *Chemosphere*

Received Date: 11 November 2016

Revised Date: 27 February 2017

Accepted Date: 12 March 2017

Please cite this article as: Miguel Ángel Álvarez-Vázquez, Ricardo Prego, Miguel Caetano, Elena De Uña-Álvarez, Maryló Doval, Susana Calvo, Carlos Vale, Contributions of trace elements to the sea by small uncontaminated rivers: effects of a water reservoir and a wastewater treatment plant, *Chemosphere* (2017), doi: 10.1016/j.chemosphere.2017.03.053

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Highlights

Natural and anthropogenic river-ria fluxes of trace elements were estimated

High TE fluxes do not always reflect human impacts: local lithology must be considered

The Das-Mestas River could be included in the European baseline of small pristine rivers

Urban water supply dam reduces the TEs matter transport to ria, specially particulate

Treated wastewater mainly increases the input of particulate Al, Cu and Pb to the sea

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