

Accepted Manuscript

Mercury Contamination of Stream Sediments in the North Bohemian Coal District (Czech Republic): Mercury Speciation and the Role of Organic Matter

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PII: S0045-6535(18)31460-7

DOI: 10.1016/j.chemosphere.2018.07.196

Reference: CHEM 21911

To appear in: *Chemosphere*

Received Date: 17 May 2018

Accepted Date: 31 July 2018

Please cite this article as: Dominik Vöröš, Mercedes Díaz Somoano, Eva Geršlová, Ivana Sýkorová, Isabel Suárez-Ruiz, Mercury Contamination of Stream Sediments in the North Bohemian Coal District (Czech Republic): Mercury Speciation and the Role of Organic Matter, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.07.196

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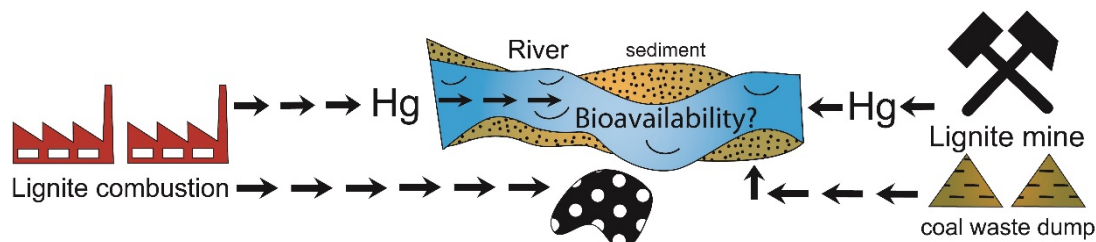
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Graphical abstract



Abstract

Industrial expansion in the North Bohemian Coal District over the past decades has had an adverse effect not only on stream sediments but also on the freshwater system. So far mercury occurrence has not been properly investigated in the area. In response to this situation, the present study applies mercury quantification and speciation in order to predict the possible mobility of mercury. The enrichment factor (EF) and sediment quality guidelines (SQGs) were used to calculate the degree of mercury contamination. An automatic mercury analyser was employed to detect the total mercury content (Hg-T) and

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