

## **MOBILITY OF MERCURY IN THE SOILS USING SEQUENTIAL EXTRACTION FROM THE RUDŇANY LOCALITY**

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### **ABSTRACT**

Many sequential extraction methods were elaborated for the evaluation of elements mobility, which are different in number of the extraction steps, used extraction solvents or/and extraction procedure. The one-step extraction can be used for fast indication of changes in the mercury mobility in the contaminated environment. The goal of our study was the quantification of released, potentially mobile and mobile mercury forms in the contaminated soil in the area of former Rudňany mining plant and former mercury plant in Štefánska Huta, with the assumed influence of Kovohuty Krompachy. The One-shot extraction of the sequential leaching (according to Tessier et al., 1979) was used for the isolation of individual forms. The extraction was based on already known concentrations of total mercury content which has been observed for long time.

**Key words:** sequential extraction, soils, mercury, environment, pollution