



## **Gold and Silver Distribution in River and Stream Sediments in Kosova Territory**

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**Abstract:** A Stream Sediment Sampling was conducted in the territory of Kosovo during the period 2006-2007 and 2010-2012; approximately a total of 4000 samples were collected. Samples were analyzed for 53 elements during the first period and for 51 elements during the second period, including duplicates, replicates and standards. Gold and silver occurrence in stream and river sediments was taken into consideration for the whole territory of Kosovo in the course of this study. The purpose of this study was the analyzing of occurrence, comparison, and frequency of distribution for Au and Ag value intervals. The survey has established the locations of known base metal deposits and has also detected the Au and Ag potential areas. High grade Au-Ag anomalies (up to 9 g/t Au respectively up to 20 g/t Ag in the stream sediments) were found in different locations. The chemical variations in the stream sediments are significantly controlled by geological settings and the occurrence of large mineral deposits, and also locally influenced by human activities.

**Keywords:** *Kosova, River sediments, frequency distribution, geological settings.*

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