

Assessment of heavy metal contamination in the Forumad chromite mine sediments by sequential extraction, NE Iran

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Factors such as the extraction of mineral resources and mining cause soil contamination with heavy metals. In this research, Sediment samples were taken from the chromite Forumad Using a sequential extraction method, Heavy metals were studied To determine the origin of the metals in the sediments. On the basis of tests and studies on the sediments showed that more than 45% nickel and chromium concentrations are interchangeable phase, This show is of anthropogenic origin. Mining activity plays an important role in increasing the concentration of these elements are interchangeable phase. Of cadmium, lead, zinc and iron concentrations greater than 30% in the rest phase, is associated with the original litogenic. The results of the extraction of a substantial manner consistent with the pollution index is calculated in the study area.