

HEAVY METALS IN DRINKING WATER IN THESSALONIKI AREA, GREECE

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ABSTRACT

The aim of the present study is the tracing of heavy metals (Antimony, Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc) in the drinking water that is used for the water supply of the city of Thessaloniki. Totally 108 samples, coming from the two pipes of Arabissos and Sindos, have been examined. All measurements were carried out using an Atomic Absorption Spectrophotometer and a High Graphite Atomizer system HGA – 2100. Studying the results, it becomes clear that the concentration values of all heavy metals were lower than the guideline values.