

Preliminary results of ^{226}Ra , ^{228}Ra and ^{210}Pb concentration in mineral waters from Parque das Águas de Cambuquira and Marimbeiro (MG)

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OBJECTIVES

This study presents the preliminary results of the ^{226}Ra , ^{228}Ra and ^{210}Pb activity concentrations of the Parque das Águas de Cambuquira and Marimbeiro and the committed effective dose due to the consumption of these water.



Figure I – Parque das águas Cambuquira, MG - Brazil

METHODOLOGY

The radionuclides ^{226}Ra , ^{228}Ra and ^{210}Pb were determined using a sequential radiochemical procedure.



Figure II – Radiochemical Procedure

RESULTS

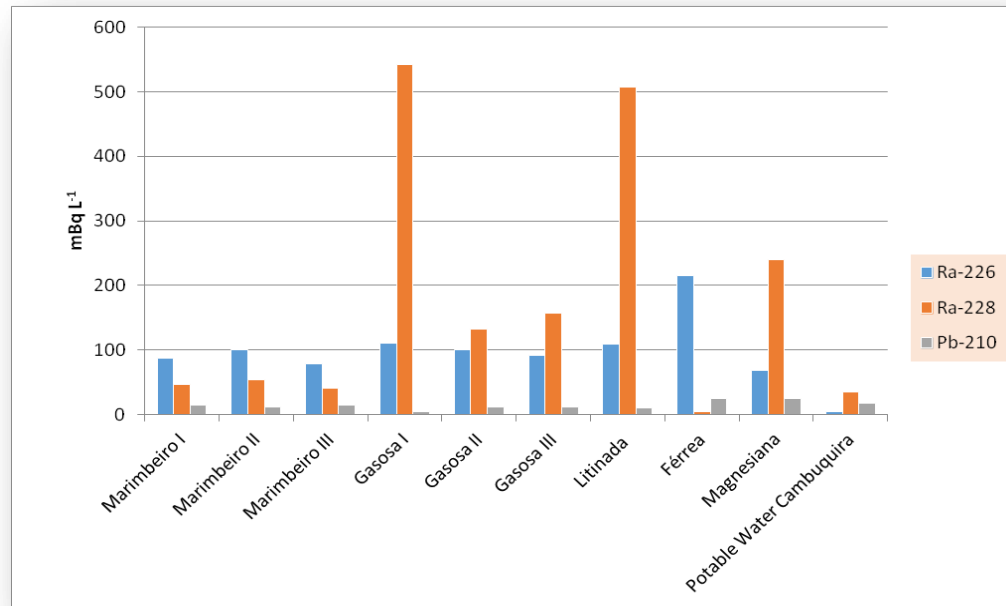


Figure III- ^{226}Ra , ^{228}Ra and ^{210}Pb concentrations, mBq L^{-1} - mineral waters from Parque das Águas of Cambuquira and Marimbeiro

In the study It was possible to observe:

- Of the three studied elements only the radionuclide ^{228}Ra presented values of committed effective dose above the recommended values.