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#09-121 Plutonium and Americium Inventories in Soil Cores from the English Lake District, Cumbria (UK)

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Measurements of trace levels of environmental radioactivity, made with a broad energy germanium (BEGe) detector, for trace actinide (^{241}Am) analysis of soils from the shores of two lakes in the English Lake District, UK, are described. In particular, the need to determine the radioactive concentration (Bq/g) in the soil samples with the intent being to discern natural and anthropogenic contributions, and trends in abundances associated with influences of the landscape, at trace levels in the environment. This has potential benefit for the assessment of ^{241}Am and ^{241}Pu and especially comparisons that might be made with accelerator mass spectrometry assessments.

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