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The impact of heavy metals on plants and soil samples in camp ii quarry site, Akamkpa Local Government Area, Cross River State

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This study was conducted to investigate the impact of heavy metals (Cd, Pb, As, Hg, Cr and Ni) on plants and soil samples in Camp2, quarry site, Akamkpa Local Government Area, Cross River State. Plant (*T. Occidentalis* vegetables) samples were collected from farmlands within the study location and soil samples were also taken at a depth of 0.15-0.30 cm from the same location where the vegetable plants were sampled. Both samples were processed using standard procedures and heavy metals estimated using atomic absorption spectrophotometry. The results obtained showed the presence of some heavy metals (Ni, Cd, and Pb) in high concentration in both soil and plant samples, while other heavy metals (As, Hg and Cr) were present at low concentrations. When these results were compared with the permissible limit standards by World Health Organization (WHO), it could be suggested that pollution of the soil and plants around Camp2 community could be detrimental to the health condition of the people living around the quarry environment.

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