

ABSTRACT

GAMMA RADIOACTIVITY ON SEDIMENTARY NATURE HOT WATER SOURCE AT VACATION AREA WEST JAVA REGION AND EQUIVALENT DOSE ESTIMATE THAT WILL ACCEPT HUMAN.

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Earth as our feet have a variety of elements contained in them that can be used by humans to meet the various needs life. This is only natural hot water that comes from a volcano or directly radiating from the inner land that can be used as a human or as a therapeutic treatment traveled. Basically, the elements contained in the earth containing natural radionuclides so that when used in excess will have a negative impact on the body's cells or organs in human. Radiation who coming from natural radionuclides are natural radiation. Radionuclide naturally being in nature, the source this radiation has been natural since this formed. Radiation exposes daily human exposure to radiation and contributes 80% of all environment radiation. For reduce the negative impact of the use of hot water, conducted research on natural radionuclides contained in the sediment in order to determine what radionuclides only contained therein. One way is to use an external dose estimates were exposed to the human body through its own natural value radioanuclide activity so that it can determine how many times the maximum for human use in the hot springs.

Keywords: Radionuclides, radiation, radionuclide activity