

Title : Types and Distribution of Heavy Minerals at Khlong Mae Yon Wai Luang, Tha Pla Duk, Mae Tha District, Lamphun Province

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ABSTRACT

The study of mineralogy, including the types and distribution of heavy minerals in water sediments collected at Khlong Mae Yon Wai Luang, Tha Pla Duk, Mae Tha District, Lamphun Province, aimed to determine the quantity and types of heavy minerals remaining from the weathering of the parent rocks. The study also sought to compare the types of heavy minerals distributed along both banks of the Doi Khun Tan mountain range to assess the potential of the mineral resources in the area. A total of 12 sediment samples were collected, and the minerals were classified using methods such as panning, flotation, magnetic separation, and further examined under a microscope. The results showed that the heavy and base-metal minerals consisted of cassiterite, zircon, hematite, tourmaline, garnet, magnetite, monazite, topaz, muscovite, and biotite. The mineral samples were then analyzed and compared for their mineral composition using X-ray diffraction (XRD) analysis.

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