

Characterization of Hydrothermal Alteration Mineralogy and Pathfinder Elements in the Exploration for gold in North Mara mines, Tanzania

Author(s)

Emmanuel Kazimoto Justinian R. Ikingura Scott Halley

Abstract

A combination of mineralogical and multi-element analyses was used to characterize the hydrothermal alteration, pathfinder elements and their distribution within the gold deposits in North Mara mines, the Archean Musoma-Mara greenstone belt, Tanzania. The aim was to evaluate the suitability of alteration mineral assemblages and composition as an effective exploration marker for fingerprinting hydrothermal