

1981 report

significant prospects were located (eg. Chieftain Hill, Section 4.8). Although several porphyry prospects were drilled, the available assessment records suggest that in most cases the drill cores were not assayed for gold.

4.1.4 1981 Exploration Program

Reconnaissance exploration in most of the seven target areas consisted of stream sediment and heavy mineral concentrate sampling and prospecting (including ground radiometric prospecting). Soil samples (mostly talus fines) were collected near prominent gossans and in areas which could not be sampled using stream sediments because of poorly developed drainage systems. Rock samples (chip and grab samples) were collected in areas of veining and alteration encountered during prospecting.

4.2 Vesuvius Hill (Bear)

The Vesuvius Hill area is situated 16 Kilometers northeast of Mount Skukum and forms part of the northeast corner of the Skukum complex (Figure 4008-24). Reconnaissance stream sediment sampling was carried out here in 1980; there were no significant anomalies in uranium or other elements. As there is a large area of rusty, altered volcanic rocks on the north side of Vesuvius Hill, additional exploration was carried out in 1981.

Vesuvius Hill is underlain by andesites, tuffs and rhyolitic flows of the Skukum Group which overlie hornblende biotite granodiorite of the Coast Crystalline Complex. A few small veins near the southeastern contact carry minor amounts of galena and sphalerite.

Eight man-days were spent collecting thirty-seven stream sediment samples, nineteen heavy mineral concentrate samples, twenty-one soil samples and thirteen rock samples. A program

of geological and radiometric prospecting was carried out at the same time. Stream sediment and soil samples were analysed for gold, silver, copper, molybdenum, and arsenic. Heavy mineral concentrate samples were analysed for gold and silver. All rock samples were analysed for gold and silver and some were also analysed for additional elements (including uranium, copper, molybdenum, lead, and zinc). Sample locations and analytical results are plotted against regional geology in Figures 4008-25 (a-c), 4008-26 (a-d) and 4008-27 (a-d.).

None of the results indicate significant metal values; radioactivity is low throughout the area. The gossan zone on the north side of Vesuvius Hill is an extensive and geologically attractive target but has no anomalous geochemical signature.