

INTRODUCTION

The area sampled lies at the heads of streams draining the western flanks of Mt. Dundas, from Comet Creek in north to Tom Creek in south.

Streams have steep gradients, waterfalls common, outcrop is nearly continuous obscured only by dolerite scree in the upper reaches of the creeks. Stratigraphy is dominated by fine grained lithologies including carbonates with minor conglomerates, crystal tuffs and basic volcanics, the latter two tentatively identified only. These rocks may range in age from PreCambrian to late Cambrian.

The area is structurally complex, sediments striking N.W. - N.E. frequently a strong schistosity has been developed in pelitic sediments. Several faults were located these strike 000°.

Potential for tin and tungsten replacement and structurally controlled mineralization is good, many carbonate horizons being associated with the complex structure. However no signs of granitic intrusives or hornfelsing were recognized. The only mineralization located was quartz-calcite-pyrite, calcite-sphalerite-galena veining, recrystallized sideritic carbonates with minor pyrite and pyritic black siltstone-schists.

Stream Sediment Sampling

A total of 48 samples were collected Nos. 44901-44948 at locations designated by E.Z./Getty. Distances between samples and creek junctions was checked by topline measurements. The finer component of active stream sediment was sampled (no field sieving). Samples Nos. 44906, 44936, 44942,-3 are pan concentrates minor black heavy minerals only observed in 44942.

Sample sites were marked with orange flagging tape and permatags marked e.g. EZ 44901

June '82

For details of samples see ticket books appendices 1).