

Nature of Float - Float of Jurassic dolerite, Permian sediments - siltstones and coarse quartz gravel (former fossiliferous). Quartz gravel initially mistaken for granite. Granodioritic material plus Mathinna Bed Sediments. Muscovite-bearing veins, pegmatitic clots of tourmaline, quartz, feldspar common in Mathinna float.

Anomaly Cause - There is no alluvium to speak of in this area of Catos Creek. All alluvial buildup is adjacent to the water flow and of recent origin.

No white quartz sand associated with tin-bearing sample sites.

Tin is probably derived from veins and fractures in the Mathinna Bed sediments - associated with tourmaline quartz and feldspar clots plus quartz and quartz/sericite veins.

Tin derived from leakage halo indicating mineralizing granite at depth.

The Avenue Dyke is a Hb/Bi granodiorite and formed earlier than the tin bearing musc./biotite granites of NE Tasmania.

A further possible source is Permian alluvium - quartz sand.

Rock chips of the various rock types were taken to establish the tin source.