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River-N.E. Dundas Tram-Bather Creek-Svengali workings-Line 367,100N was extensively sampled as it lies on the southern strike extension of a major structure known as the Rosebery Axis. To the north, inside the Rosebery Mine Lease Area, this structure carries gold bearing quartz-tourmaline veins. The old Salisbury and Chamberlain workings exploited this mineralisation. The Hamilton workings, east of the Rosebery Axis, were sampled because old records indicated it was an Sb as well as a Pb occurrence. The Lynton Workings, on the western side of Colebrook Ridge, were sampled because the Pb-Ni mineralisation occurred in a barite gangue on the margin of an ultramafic intrusion.

In total 148 rock-chip samples were collected and analysed for gold and related elements. A further 127 samples from DDH CHP 264 were also analysed. Not all samples were analysed for all elements. Details of samples and analyses are presented on the rock-chip data sheets in Appendix 2, and the drill log data sheets in Appendix 3. All samples were analysed by Analabs Pty. Ltd. by the following techniques where applicable.

- Au : by 30g fire assay with A.A.S. finish.
- Cu,Pb,Zn,Ag,Fe,Mn,Cr,Mo : by A.A.S. after total digestion by nitric, perchloric, hydrochloric and hydrofluoric acids.
- As : by A.A.S. after vapour hydride generation.
- B : by I.C.P. spectroscopy.
- Ba,Sn,W : by pressed powder X.R.F.
- Sb : either by X.R.F. or by A.A.S. after ammonium chloride sublimation and vapour hydride generation.

4. RESULTS RECEIVED

4.1. Petrology

Petrological results received for 10 samples taken on a traverse over the "Moore's Pimple Gabbro" (C.M.S. Report 84/7/32, Appendix 1), show that the area is lithologically more complex than indicated by previous mapping. Within the area interpreted as a gabbro intrusive, altered ultramafics and felsic tuffaceous psammopelites were identified, in addition to the previously delineated altered basic igneous rocks. Throughout the area there is prominent strong alteration of a variable nature, comprising sericite-chlorite-quartz, carbonatisation and silicification. Mineralisation comprises:

- minor disseminations of pyrite, chalcopyrite, sphalerite and galena near the