

Pb, Zn, Ni, Co, Ag, Cr and Sn and 100 soil samples from South Comet lines 34S, 36S, 38S, 40S, 42S, 44S, 48S, 50S and 52S were analysed for Zn and Hg. This latter group were in preparation for a mercury sniffer survey of lines 40S, 44S and 50S in the East South Comet area. Only minor Hg was observed requiring no further investigations.

The South Comet mine was channel sampled at 5 feet intervals. 367 samples (342 from the adit and 25 from the cross-cut) were analysed for Pb and Zn with selected Ag and Cd analyses (Discala, 1974).

246 samples collected by S. Gatehouse (Honours thesis) from trenches and auger holes along lines from DDH-SC10 and DDH-KH7 were analysed for Cu, Pb, Zn, Ag, Fe and Mn.

Self-potential, magnetic and R.E.M. surveys were completed over the Comet-Kosminsky and South Comet grids. A VLF-EM survey was run over the Comet-Kosminsky South Comet, Mariposa East, Mt. Dundas and part of the East South Comet grids (DRG No. K555-37). Line 26S on the Comet-Kosminsky grid was traversed with a brief I.P. survey.

Anomalies in these geological, geochemical and geophysical surveys resulted in the drilling of 20 holes at South Comet (SC19 and SC21) and 23 holes at Kosminsky Hill (KH1-23). SC14 and SC15 were logged with down-hole I.P. and resistivity. Drilling results (Appendix XVIII) were promising although reducing reserves to only 45,800 short tons of 10% Zn or 13% combined Pb/Zn ore along the old known mineralised zone of the South Comet-Kosminsky mine.

Kosminsky Hill West Prospect. The target in the Kosminsky Hill West Prospect was the northwest trending inferred offset south branch of the West Comet lead/zinc mineralisation. This mineralisation was