

Major linears have also been plotted on 1:10,000 cross sections (Mac 269 series) to aid interpretation, but these have not been re-drafted (copies held in Burnie).

In addition to the three areas of interest defined by the previous study a further three target cones have been defined (plate Mac306):

- a) Related to L1 (a major linear parallel to the Hellyer feeder zones and stringer veins) west of the Que River alteration zone. The possibility that the Que-Hellyer host horizon has been down-thrown on the east side of the linear should be considered. Also interesting as basalt in this area has an M2 signature.
- d) The intersection of the L5 and cross linear coupled with geochemical highs, and inadequate drill testing combine to make this area attractive.
- e) A major cross structure intersects the L4 linear (sub-parallel to the NNE trend of Hellyer feed zones) and is associated with Ba and As soil anomalies (? hangingwall style alteration). The area is poorly drill tested.

A review of Cu, Cr and Ti soil images suggest that it may be possible to differentiate between upper (M2 signature) and lower (M3 signature) basalts and dolerite (M1 signature) as shown on plate Mac311. If this sub-division is correct then it will require major reinterpretation of the area South of the Que River portal. Follow-up is being undertaken by statistical analysis of the soil data.

Further work on this project should include interpretation of ground magnetics, I.P. and E.M. data to confirm these interpretations.

### 3.3 Geochemistry

#### 3.3.1 Soil Geochemistry

The image processed geochemical maps of "C" horizon soil data at Mackintosh are attached as Plates MAC 290 a-d, f, j-l.

Data was retrieved from field data base in ascii form and imported into a binary format for the gridding/contouring package.

Gridding was carried out using a random gridding technique with a 16 sector radial search pattern and a maximum search radius of 300 metres. Element values were converted to logs prior to the gradient based interpolation procedure and converted back afterwards so that interpolated values did not pass below zero concentration.