

11.0 REGIONAL STREAM SEDIMENT SURVEYS

11.1 GENERAL - COMALCO SURVEY

Comalco conducted stream sediment surveys over most of E.L. 7/74. Two main and separate surveys were completed. The most extensive was an early -20# stream sediment survey over Cadastral sheets 4139, 4140, 4141, 4239, 4240 and 4241, where samples were variously analysed for Cu, Pb, Zn, Bi, Ag, Sb, Au, W, Mo and F. Some rock chip samples were collected during this survey. A later -80# survey was carried out on selected areas on Cadastral sheets 4141 and 4140 where samples were assayed for Cu, Pb, Zn, Sn, W, Bi and F (Askins, P.W., March, 1980). Other localized surveys were undertaken along the Wilmot River area near Erriba, the Black Bluff/Smiths Plains area, and along the Campbell River, a southern tributary of the Dove River in the south of the area, (Askins, P.W., March, 1980; Weste, G., Sept. 1978). Another survey was done in the Liena area, however no detailed results or locations are available.

A large area of Precambrian schists in the south of the licence was not sampled. Data were treated statistically for both the main Comalco surveys.

Numerous anomalies were detected, most of which have had no followup done on them. Four main areas are indicated for followup:

- (1) Bismuth Creek Fault Zone near Lorinna.
- (2) Taylors Flats/Leven River limestone area.
- (3) Luna Creek/Mt. Stormont Cambrian volcanics.
- (4) Dove River Cambrian volcanics.

Bismuth Creek Fault Zone - Four fluorine anomalies are present (960 ppm, 1300 ppm, 1100 ppm, 1400 ppm F) mostly in areas of basalt (rubble?) overlying Moina Sandstone.