

### **Sunday Creek: High-Grade Gold-Antimony Discovery in Clonbinane, Victoria**

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Sunday Creek is located within the Melbourne Structural Zone in the Lachlan Fold Belt. The regional host to the Sunday Creek mineralisation is an interbedded turbidite sequence of siltstones and minor sandstones metamorphosed to sub-greenschist facies and folded into a set of open NW trending folds.

Mineralisation is structurally controlled, with increased mineralisation associated with brittle-ductile shear veins that show quartz-stibnite extension veining, stibnite-gold-matrix breccias and disseminated mineralisation in the form of arsenian pyrite, pyrite and arsenopyrite. The main host for mineralisation is an east to north-east trending zone of intensely altered 'bleached' silica-sericite-carbonate siltstones, mudstones and sandstones and a silica-sericite-carbonate-fuchsite altered dyke rocks that ranges from 20 - 110 m wide. A large arsenic anomaly is associated with gold mineralisation, mostly represented by disseminated pyrite with proximal arsenopyrite bearing zones in close proximity to veining rounds out the larger visible alteration footprint.

Mineralised vein arrays cross the host structure on a predominate north-west orientation with individual vein sets defined over 600 m depth extent from surface to over 1,100 m below surface, 2.5 m to 3.8 m wide (median widths) (and up to 10 m), and 20 m to 100 m in strike. Each of these zones repeats every 10 m to 20 m within the Apollo, Rising Sun, Golden Dyke and Apollo areas with over 70 vein sets currently defined to date. High-grade "cores" are observed within vein arrays and have much more complex multi-phase textures and high antimony grades (+5% Sb) and typically have visible gold or +20g/t Au up to 1000+ g/t Au values.

At Sunday Creek, and as is typical for epizonal deposits (for example Fosterville), visible gold becomes increasingly significant at depth below approximately 700-800 m. This represents the different temperatures and changes in structural regimes of formation of epizonal Au-Sb and Au dominant mineralisation.