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## WHEATLEY PROJECT

This multielement project is for sale on flexible terms, or for Joint Venture.

- Mineralized systems of major dimensions but poorly explored.
- Prospective for

Archaean VMS style Pb-Zn-Ag and Au /Broken Hill type deposits.

Shear-zone hosted Gold.

Lithium-Tin-Tantalum in mega-pegmatites of Greenbushes type.

### **Location:**

25km SW of Greenbushes, see Fig 2.

### **Tenement:**

Exploration Licence E70/4850 applied for 21 April 2016.

36 sub-blocks, 103 sq km; annual exploration commitment upon grant \$36 000.

Registered under the names of Mr P. Askins.

Mainly in State Forest; An exploration plan to manage environmental issues in the forest, mainly concerning prevention of Jarrah dieback, will be needed to enable grant. Small areas on private land.

On Pemberton SI 50-10 1:250 000 map sheet.

### **Geology:**

- Little outcrop; extensive laterite cover.
- Archean Balingup Complex, high metamorphic grade, a gneiss suite of former sedimentary and felsic volcanic rocks, granitoids and pegmatites.
- The local Terrane slice is bound by interpreted thrust faults, whose age may be Archean, and reworked in the Proterozoic when there was collision with the Proterozoic Albany Fraser Province immediately south.
- part of the gneiss suite is kyanite bearing and gahnite (zinc spinel) bearing, indicative of metamorphosed widespread altered rocks.
- Drilling has located zinc and copper sulphidic horizons, interpreted to be metamorphosed VMS systems.
- A major shear system, the Wheatley system, has a coincident regional antimony(-arsenic) anomaly on the west side.

- A major set of younger intrusive pegmatites is interpreted to occur in a wide zone trending ESE and cross-cutting the Wheatley system.

#### **Prospective for:-**

##### Archaean VMS style Pb-Zn-Ag and Au /Broken Hill type deposits

- Regionally extensive kyanite schist unit, probably representing a metamorphosed large alteration system.
- Gahnite (zinc spinel, a key Broken Hill lode indicator) present at surface.
- Polymetallic (Pb, Zn, Cu, As, Sb) anomalies in laterite sampling.
- Airborne and ground EM surveys (by BHP and by Teck-Cominco) define several anomalies.
- Several diamond drill holes at Kingsley prospect, a tabular sulphide body extending up to two kilometres in strike. The pyrite-pyrrhotite-horizon in felsic gneisses with mafic hangingwall has a best intercept of **4.1m @ 2.19% Zn, 0.5% Pb, 0.21% Cu** including 2m @ 0.19 ppm Au.
- Yanmah South (WHT15 EM anomaly) drilling intersected **0.7m @ 1.3% Cu**.
- Large areas with EM anomalies not tested by BHP and Teck because they lack surface geochem anomalism are nevertheless highly prospective for buried VMS systems. And vice-versa there are many surface geochem anomalies with no coincident EM conductors- these are highly prospective for non-conductive zinc bodies.
- A study by Hassan, Geol Survey WA, [Hassan, LY 2017, Metamorphosed VMS mineralization at Wheatley, southwest Western Australia: Geological Survey of Western Australia, Record 2017/9, 39p.] concluded that considerably more work in the region is required.

##### Shear-zone hosted Gold.

- Antimony in laterite anomaly 16 km long, (defining the major part of Wheatley shear zone).
- Arsenic anomalies to 0.15%, coincident with the antimony anomaly in large areas.
- Within the main antimony (arsenic) anomaly the only drilling for gold has been at Rosella, where several metres @ 0.2-0.34g/t in biotite gneiss were recorded by Pancontinental.
- Outside this main antimony air core, RAB, and limited diamond drilling by Pancontinental and Teck at Yanmah South (Jack). Au-As anomaly in soil/laterite exceeds 1km in strike and is intermittent across strike for 1km, with Au up to 420ppb and As up to 1840ppm. Best drill intercept (Pancontinental) **2m @ 2.75g/t**, and (Teck) 1m @ 0.7g/t with 2066ppm As from 25m at the end of hole, in quartz-feldspar-biotite-gneiss. The two aircore holes 50m either side of this hole had elevated gold values, so the system is still open and almost untested.
- Clearly there is a huge area remaining to be tested.

##### Li-Sn-Ta in mega-pegmatites of Greenbushes type.

- Greenbushes, only 22km to the north, is one of the world's major tantalum and lithium resources in a large pegmatite system.
- A huge (<8km x 3km) high tenor Nb-Ta-Sn anomalous area (laterite sampling by Pancontinental and others), cross cuts, and must be younger than, the Wheatley shear system. There were no Li analyses done in most of this anomalous area, (see below).
- Very large pegmatite systems of Greenbushes type may exist beneath laterite here; Prospectors in the past have discovered small pegmatites at Smithfield and Willow Springs (just outside the Licence) on the fringes of this anomalous area, but laterite cover has doubtless hindered further discoveries.

- Pegmatites are known in the Tenement to the south of this anomalous area:- At Yanmah South many thin pegmatite veins were intersected in Pancontinental drilling (gold exploration), but no analyses for Li, Sn, Ta were done. Further south at the Kingsley prospect there were minor intercepts of unmetamorphosed pegmatites in Teck drilling (VMS exploration), confirming their post metamorphic- post shearing emplacement. These also were not analysed for Li, Sn and Ta.
- Lithium pegmatite exploration has not yet been conducted in most of the Tenement. Unfortunately the only analyses for lithium of the extensive soils/laterites are in a restricted area in the NW sector (done by Teck), shown on Fig 4. Here in the Tenement there are scattered unexplored Li anomalies exceeding 15ppm, which is the tenor corresponding to known pegmatites at and south of Willow Springs, as evident on Fig 4. One Li anomaly (18.4ppm) in the Tenement is within the large Nb-Ta-Sn anomalous area, thus confirming its prospectivity for Li pegmatites.

**Future Exploration:**

There is extensive past laterite sampling but samples have been discarded. Almost no analyses were done for lithium, and only in restricted areas for gold. Arsenic has been used as a gold pathfinder, but it can be misleading if arsenic rich zones are actually peripheral to better gold mineralisation. Laterite is an easy to collect and reliable geochemical medium, so the next phase of exploration to quickly and cheaply generate gold and pegmatite targets could be systematic laterite sampling with analyses for Au, Li and other elements.

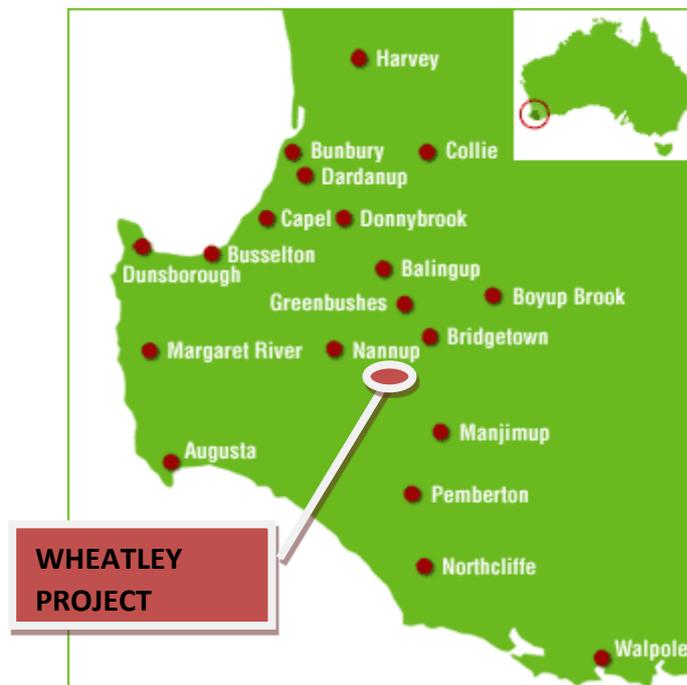


Fig 1 Location

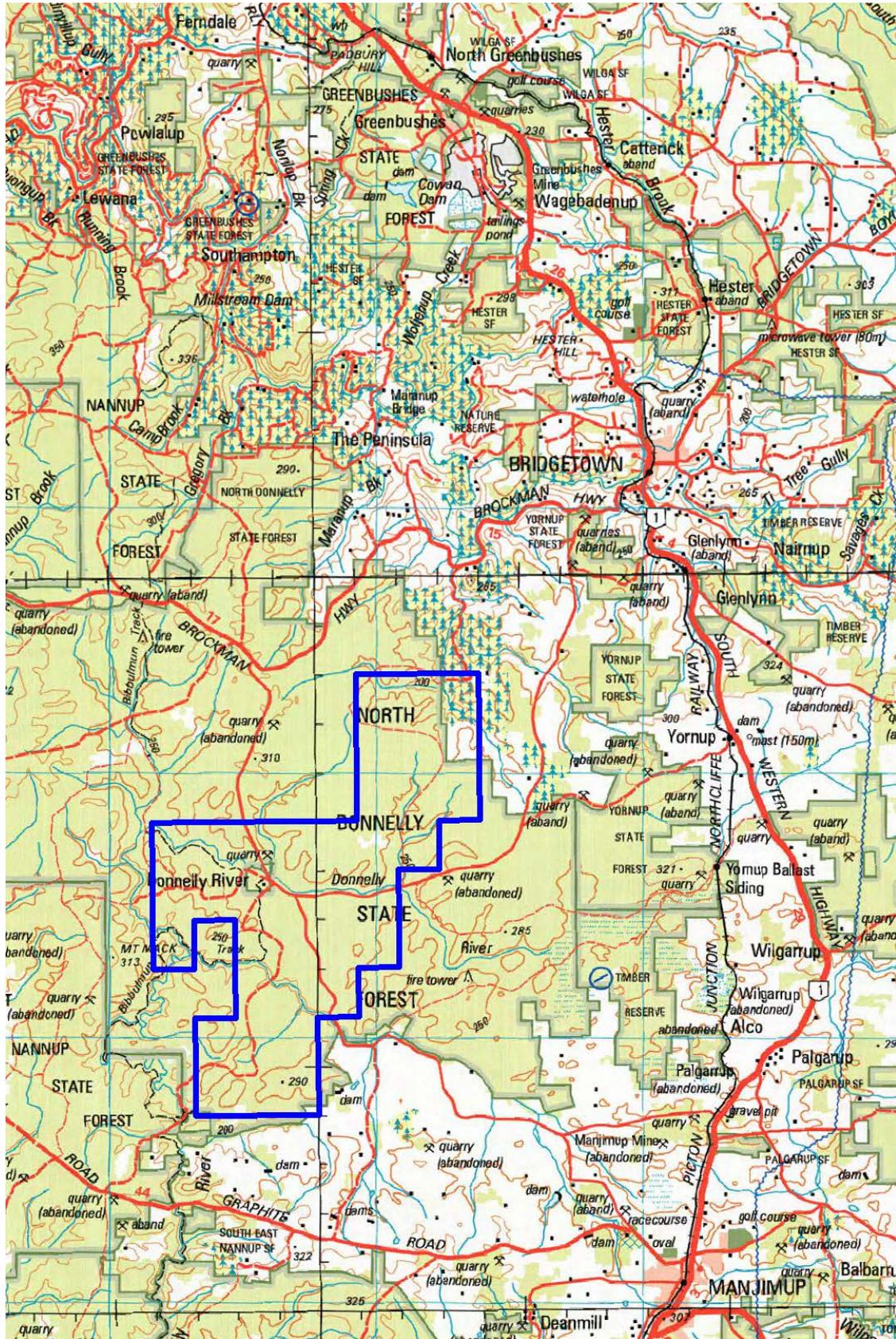


Figure 2 Location on 250K topo plan. In addition to the roads shown there is an extensive network of Forestry tracks, allowing ease of access.

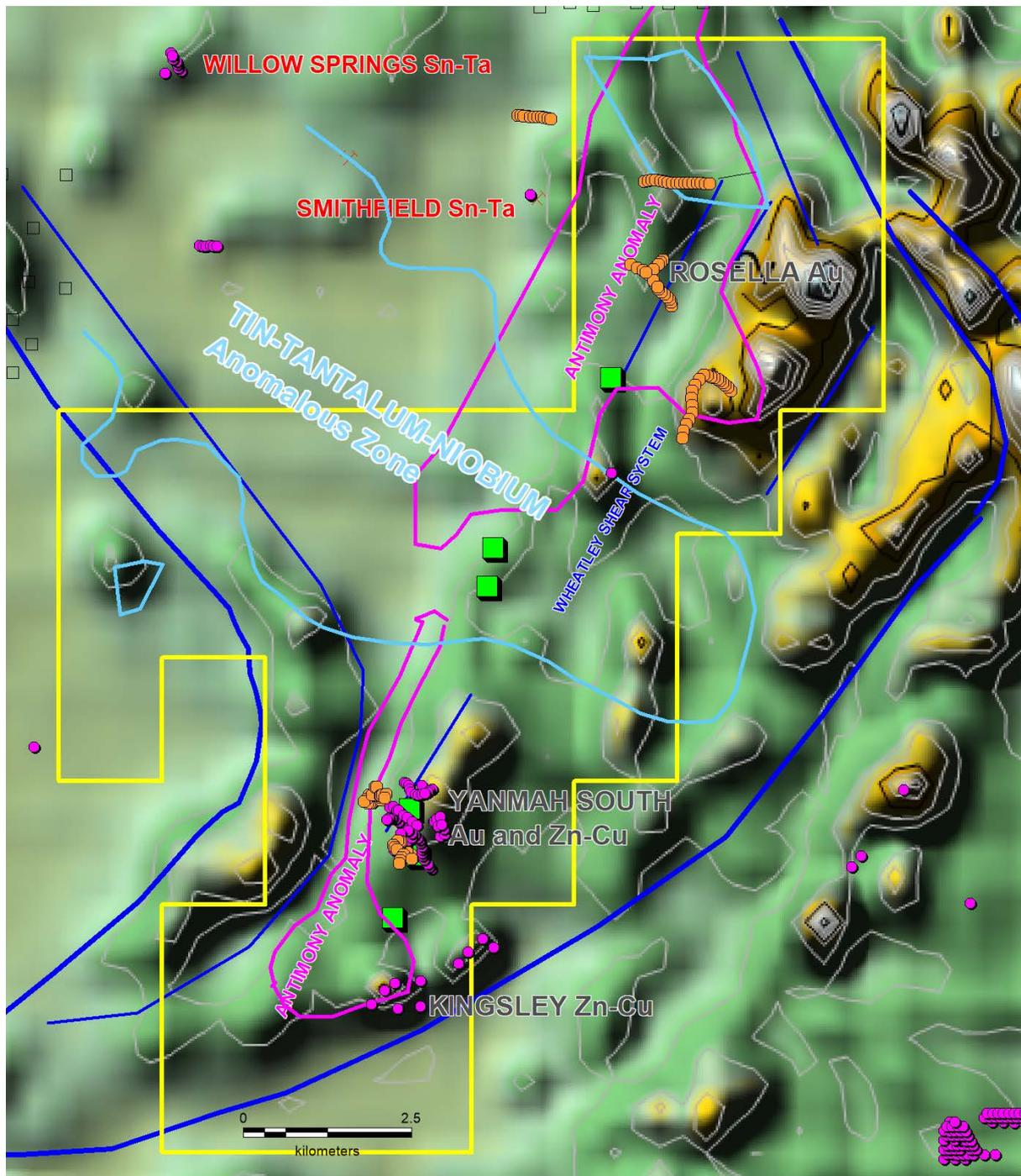


Figure 3, Airborne VTEM 350msec channel, showing location of prospects and geochemical anomalous zones. Kyanite/gahnite occurrences: green squares. Prior drilling: Teck - mauve dots, Pancontinental – orange dots.

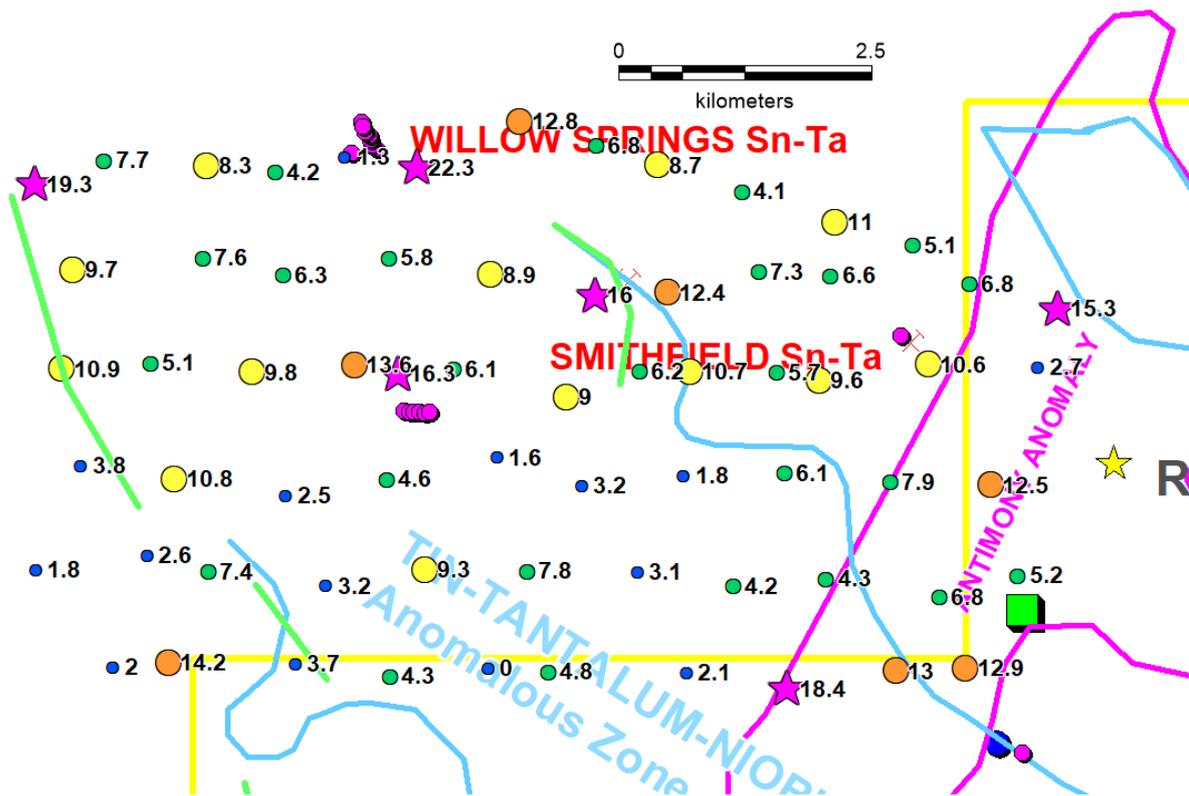


Figure 4. Lithium (ppm) in laterite.

#### FURTHER INFORMATION

Contact Paul Askins for further details on the project.

Paul Askins is a geologist who has held senior management positions with major exploration and mining companies, and has over 40 years' experience in mineral exploration for a broad range of commodities in Australia and overseas. He has strengths in all phases of exploration from administration, strategy, aggressive and innovative prospect selection, target generation, field and office assessments, through to feasibility studies. He enjoys innovative prospect and target generation, using lateral thinking at all scales from regional to detailed prospect scale. He is an ore finder, and is proud to have been Western Australian Exploration Manager for Billiton (Shell Metals) when his team discovered the multi-mineral ounce Sunrise Dam gold deposit.

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