ENTERPRISE METALS LIMITED

ASX ANNOUNCEMENT **4 July 2011**

DETAILED AIRBORNE SURVEY AT BYRO PROJECT IDENTIFIES ADDITIONAL URANIUM TARGETS

- **New radiometric survey identifies 4.5km x 2.5km uranium target.**
- **Anomalous uranium associated with mapped calcrete on margins of Lake Wooleen.**

Enterprise Metals Limited ("Enterprise" or "the Company", ASX: **"ENT"**) is pleased to announce that it's recent Byro detailed airborne magnetic-radiometric survey has identified significant uranium anomalism associated with calcrete on the margin of Lake Wooleen.

The Byro Uranium Project is located approximately 250 km northeast of Geraldton in the Murchison Province of Western Australia, see Figure 1. The Project comprises granted exploration licence E59/1617 and exploration licence application E20/758 covering a total area of approximately 1,117km^2. The geology is dominated by regional gneiss/migmatite and granitoids, along with a greenstone package of mafic volcanics and metasediments. The project area is considered prospective for calcrete uranium.

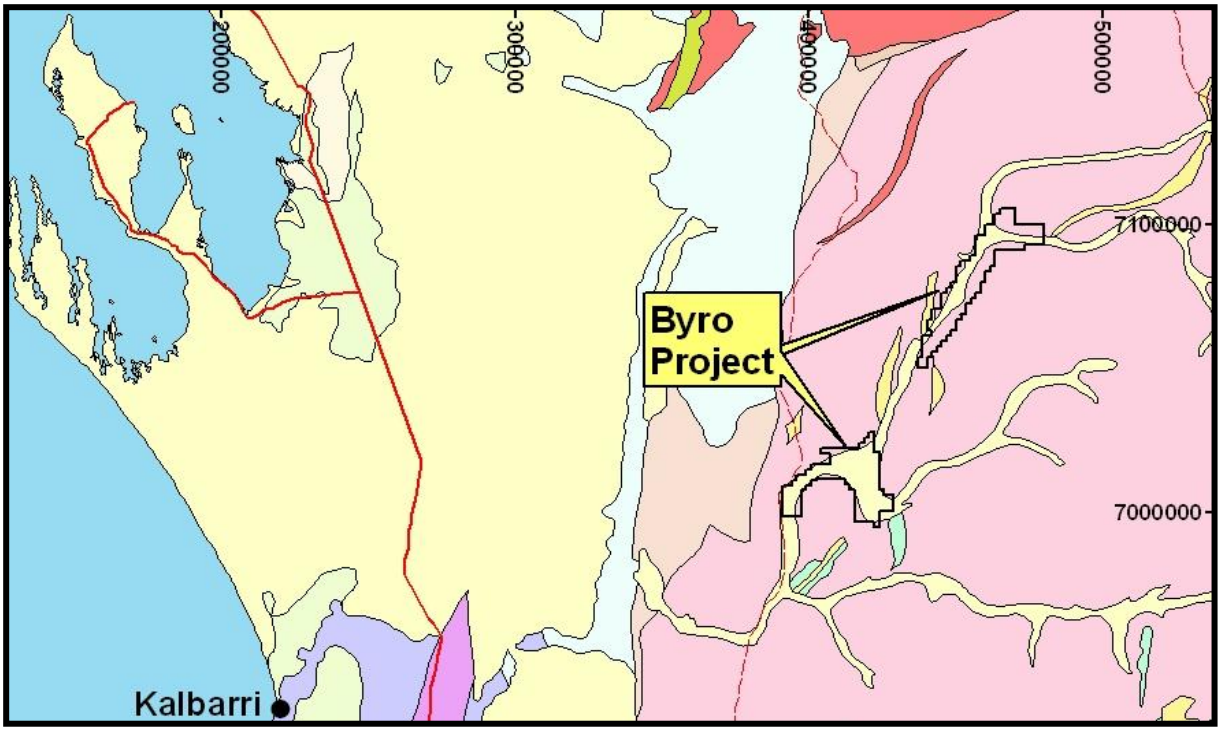

Figure 1: Byro Project Location over Regional Geology

Radiometric Data

GSWA radiometric data over the northern portion of the Byro Project (E20/758) identified a prominent northeast trending linear uranium anomaly, some 45km long and 4-5 km wide, flanking the Murchison River. Following the grant of E59/1617, Enterprise commissioned Aeroquest Airborne to fly a detailed airborne magnetic-radiometric survey over the entire tenement area at 100m line spacing, with a flying height of 50m for a total of 6,091 line km. Figure 2 below provides the uranium channel response of these two survey areas.

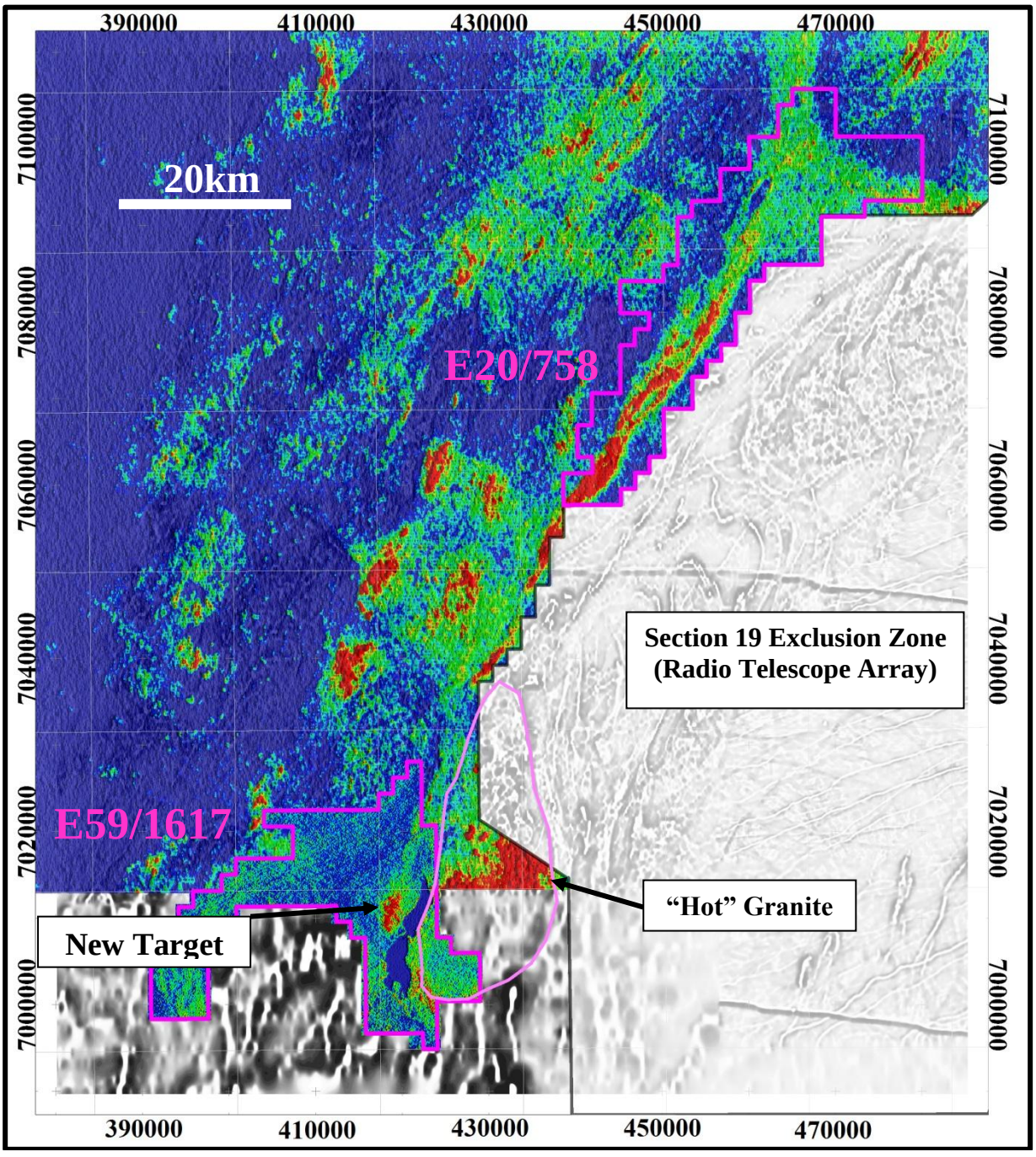

Figure 2: Byro Project Regional Uranium Channel Image over TMI Aeromagnetics (Enterprise survey to south and GSWA survey to north)

The radiometric data over E59/1617 is dominated by a large 2.5km x 4.75km uranium anomaly on the northwestern margin of Lake Wooleen, and also shows an elevated uranium response on the eastern margin of the lake, see Figure 3. The image indicates a uranium low over Lake Wooleen, however the lake remains highly prospective for uranium, as the presence of surface ponds of water and lake sediments is considered to have masked the true uranium response.

Regional mapping by the GSWA indicates that the anomalous uranium on the western margin of Lake Wooleen is largely coincident with extensive areas of calcrete development, (yellow polygons in Figure 3). A "hot" granite with strong uranium response (see Figure 2) located to the immediate northeast of Lake Wooleen is considered a potential source for the uranium. These observations support the calcrete hosted uranium exploration model being used by Enterprise.

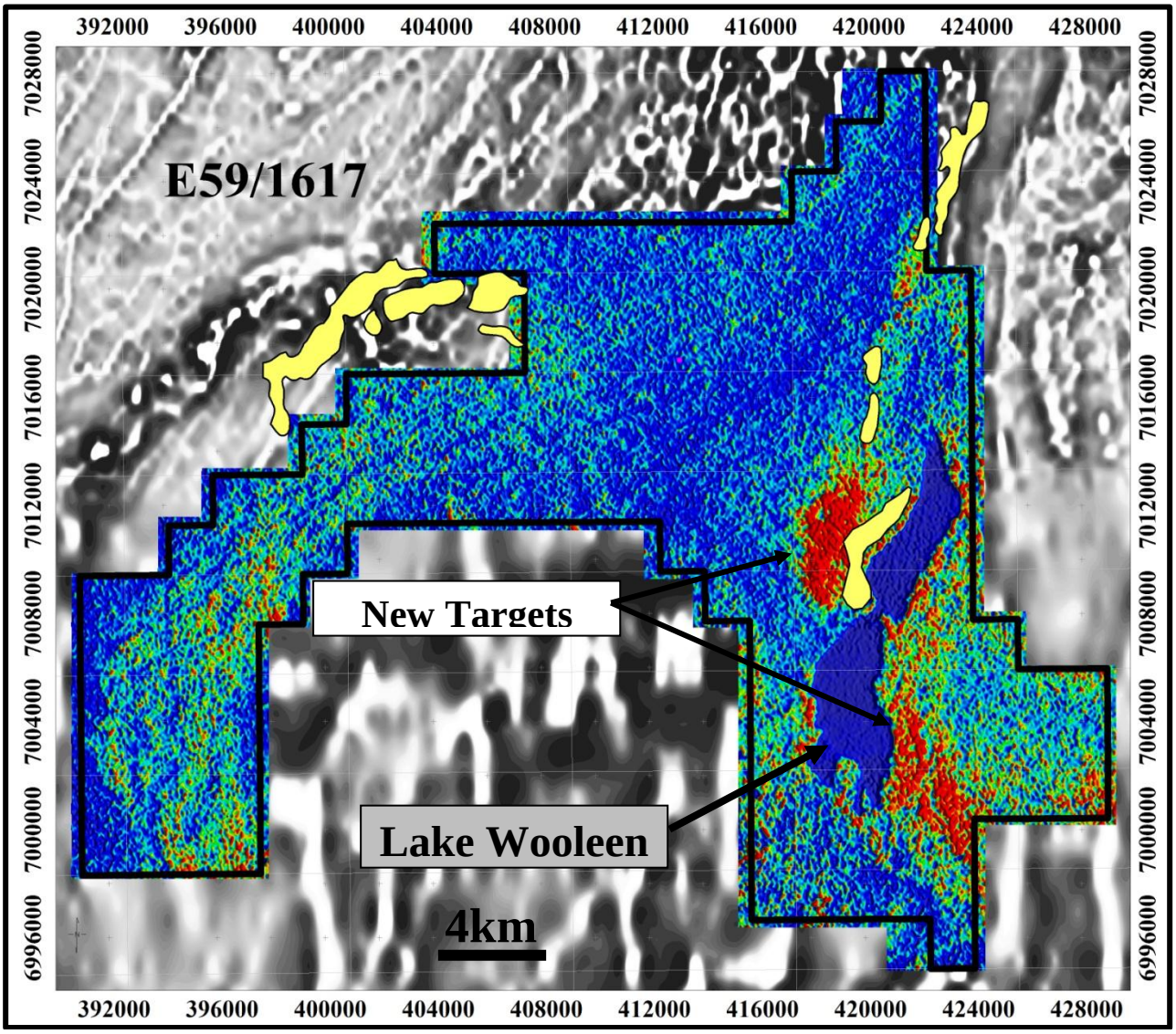

Figure 3: E59/1617 - Uranium Channel Response over TMI Aeromagnetics (GSWA mapped calcrete shown in yellow polygons)

Figure 4 presents the digital terrain model for E59/1617 and illustrates the geomorphically unusual confluence between the south/southwest flowing Murchison River and the Roderick River. This has created Lake Wooleen, a low energy environment where damming or ponding has occurred, and is considered a highly prospective "conceptual" uranium target, similar to the Lake Way-Centipede and Lake Maitland uranium deposits.

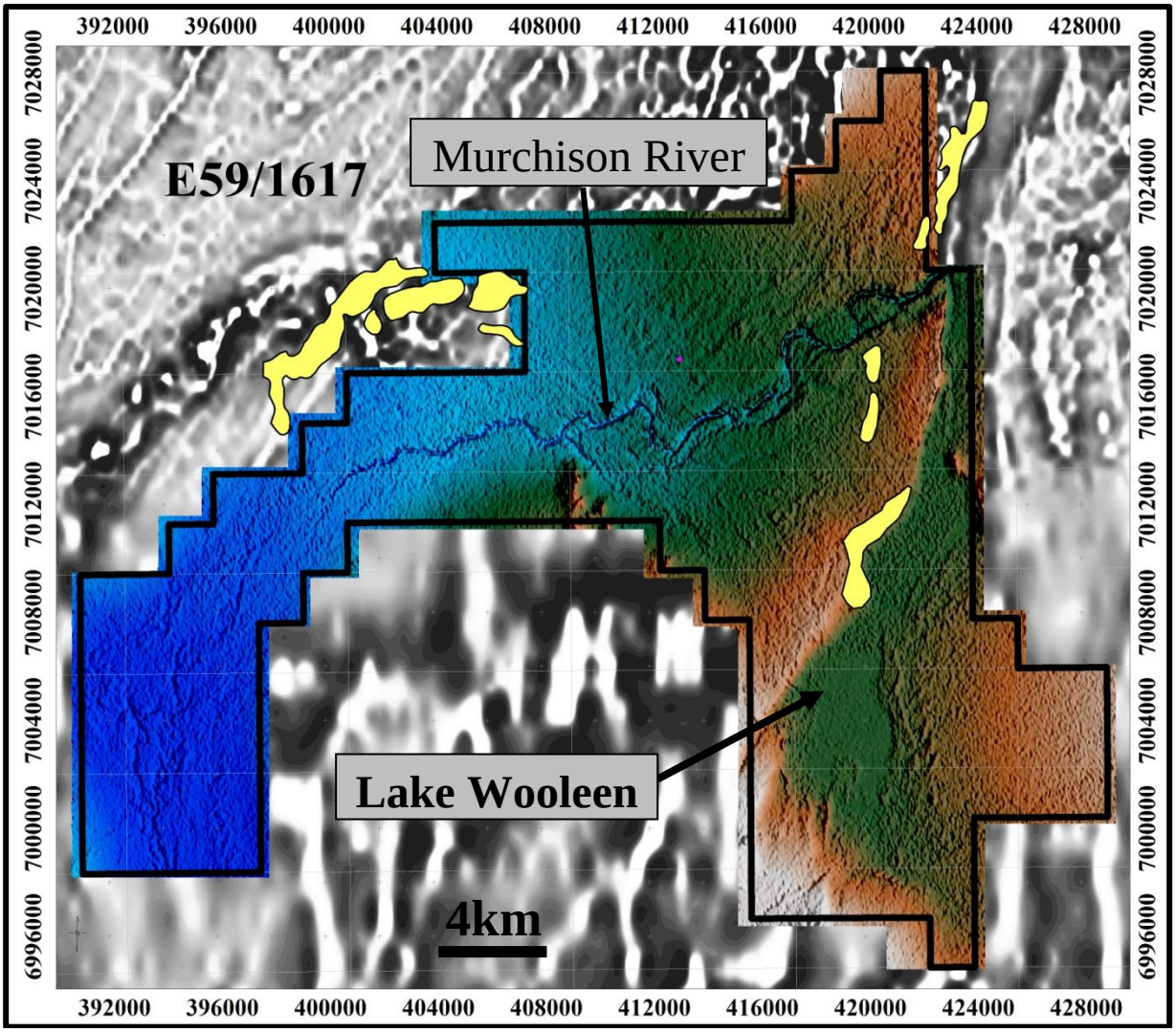

Figure 4: E59/1617 – Digital Terrain Model over TMI Aeromagnetics (GSWA mapped calcrete shown in yellow polygons)

Aeromagnetic Data

The aeromagnetic data clearly domains into three zones, see Figure 5. Zone A to the west is magnetically "quiet" and interpreted to be predominantly Archaean granite intruded by numerous east-northeast trending Proterozoic dykes. Zone B has an "active" magnetic signature and is interpreted to be a package of metamorphosed Archaean granite and acid/mafic volcanics and is prospective for gold and base metals. Zone C to the east of Lake Wooleen contains a radiometric "hot" granite and is a possible source for the uranium response within the lake.

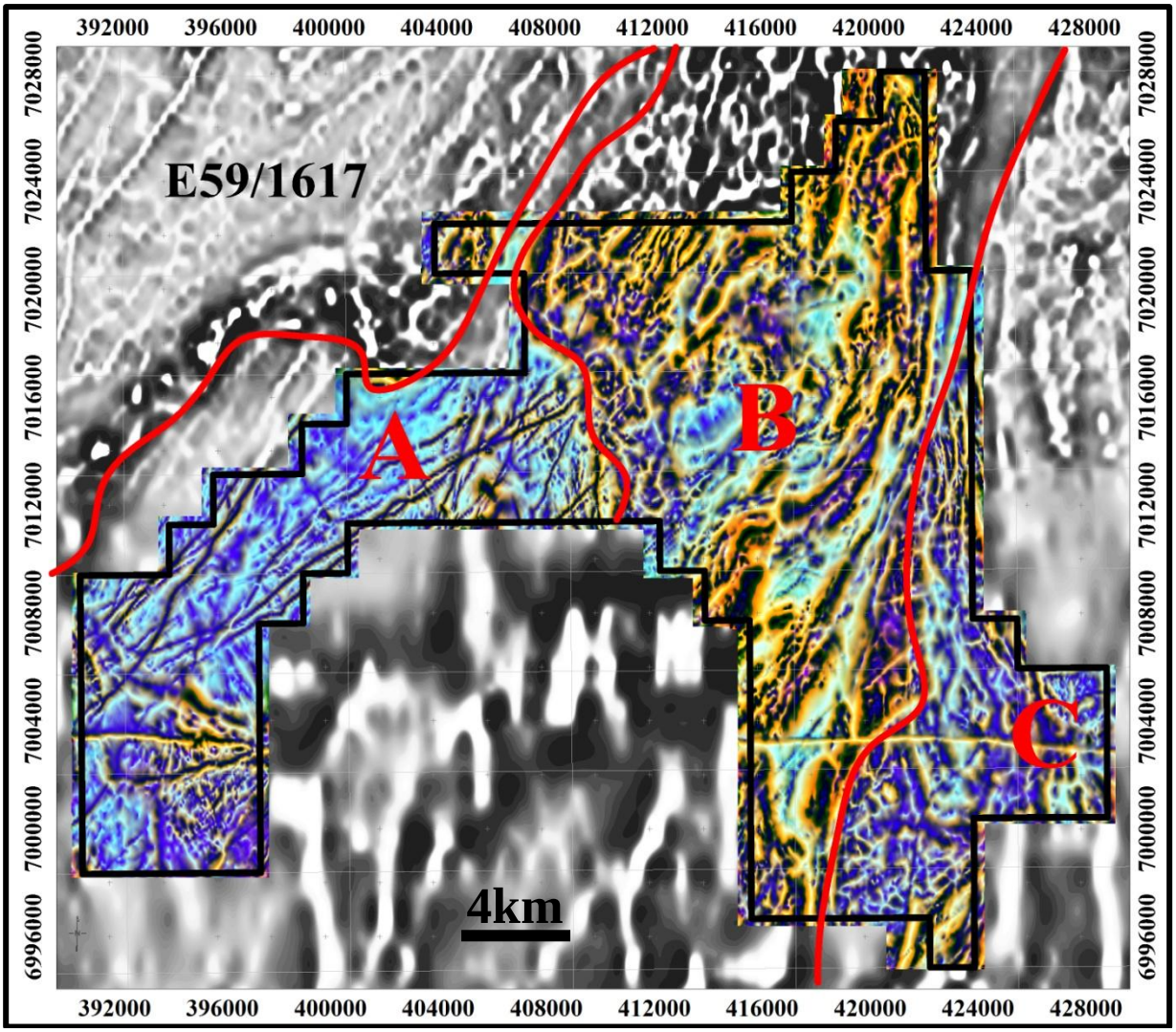

Figure 5: E59/1617 – TMI Aeromagnetic Image (textural filter) Showing Major Domains

Proposed Exploration

Enterprise is planning reconnaissance mapping and geochemical sampling over areas with anomalous uranium associated with calcrete. Further work is also warranted over the central greenstone domain to assess the gold and base metal potential.

Depending on the results of the reconnaissance work and the granting of exploration licence application E09/1864 and E59/758, further detailed airborne surveys may be flown covering the anomalous uranium response associated with calcrete in the Murchison River drainage system.

Dermot Ryan
Managing Director

Contact:
Telephone: 08 9436 9200 Facsimile: 08 9436 9220 Email: admin@enterprisemetals.com.au

The information in this announcement that relates to Exploration Results is based on information compiled by Mr Derek Waterfield, a Member of the Australian Institute of Geoscientists and a full time employee of Enterprise Metals Limited. Mr Waterfield has sufficient relevant experience in the styles of mineralisation and types of deposit under consideration, and in the activity he is undertaking, to qualify as a Competent Person as defined in the 2004 Edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (the JORC Code), and consents to the inclusion of the information in the form and context in which it appears.