

Tambourah Metals Enters CSIRO Collaboration at Russian Jack Lithium Project

Highlights

- CSIRO collaboration commences at Russian Jack Lithium Project
- Tambourah Metals Ltd has been awarded a CSIRO Kick-Start voucher
- Accelerated Exploration for L-C-T pegmatites continues at Russian Jack

Tambourah Metals Ltd is pleased to announce that it has entered a collaboration partnership with Australia's national science agency, CSIRO, to apply machine learning using their hyperspectral dataset to define first pass exploration targets across the Russian Jack Lithium project. The collaboration will be undertaken under the CSIRO Kick-Start program. Tambourah Metals has previously used hyperspectral data to identify significant swarms of possible L-C-T pegmatites at Russian Jack¹. The pegmatite swarms cover an area of approximately 320km² (figure 1) with some areas of terrain that is difficult to access.

Collaborative Study Details

"Effective exploration relies on the ability to target orebodies that may have footprints that are 10s to 100s of metres in diameter, however the starting search area may be many hundreds of kilometres. To reduce the search space, spatial data sets and data analytics can assist greatly. One approach is to identify a preferred target landscape or geology and find similar areas for more detailed exploration. Using supervised machine learning of remotely sensed data sets such as visible and near infrared spectra from satellites may be effectively employed in this manner.

CSIRO will work with Tambourah Metals Ltd to investigate the potential to use satellite visible and near infrared spectral layers to identify target areas (favourable geology for L-C-T pegmatites) It will then apply a supervised machine learning algorithm(s) to identify areas of similar geology types. The new machine learning outputs should reduce the search space significantly. These methods have not been applied to L-C-T pegmatite exploration targets in the East Pilbara"².

¹ ASX TMB announcement "L-C-T Pegmatites Exploration Expanded at Russian Jack" 21/11/2022

² Applying supervised machine learning to reduce critical minerals search space in the Pilbara (OD-230619). CSIRO Internal document to TMB.

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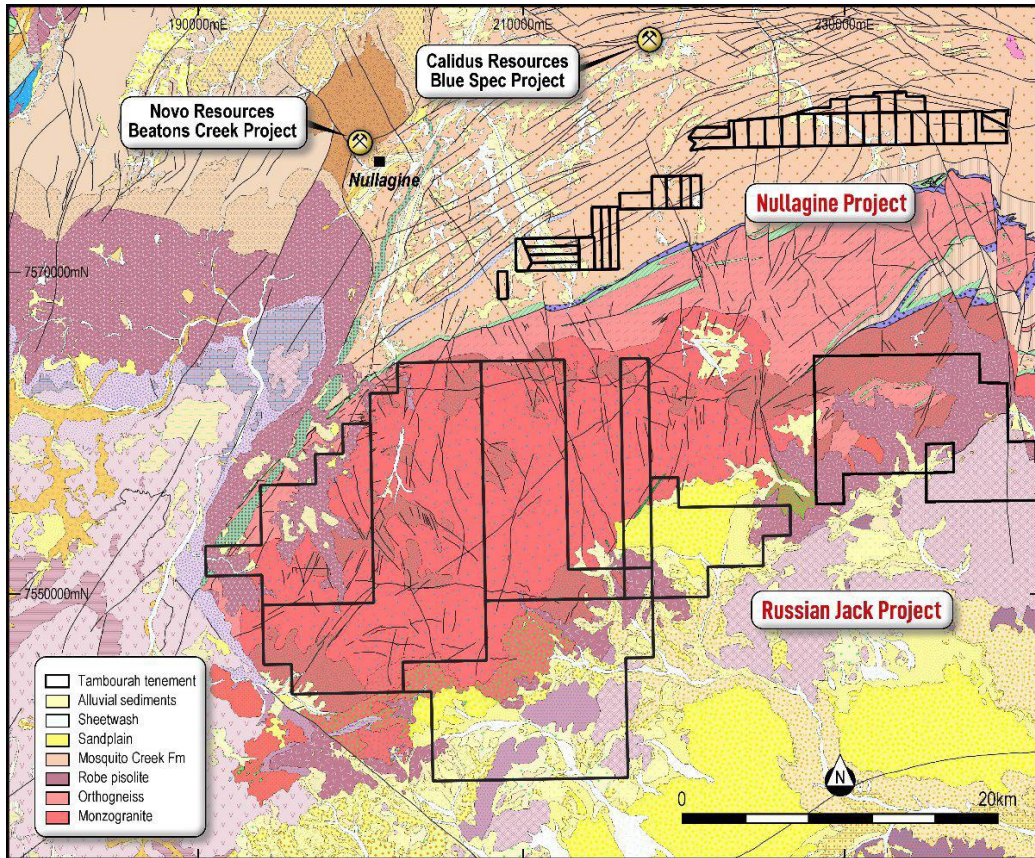


Figure 1. Russian Jack Tenement Map Sheet

The Russian Jack project is in the Bonney Downs Monzogranite which is part of the Split Rocks Supersuite known to host lithium bearing spodumene pegmatites, (Figure 1).

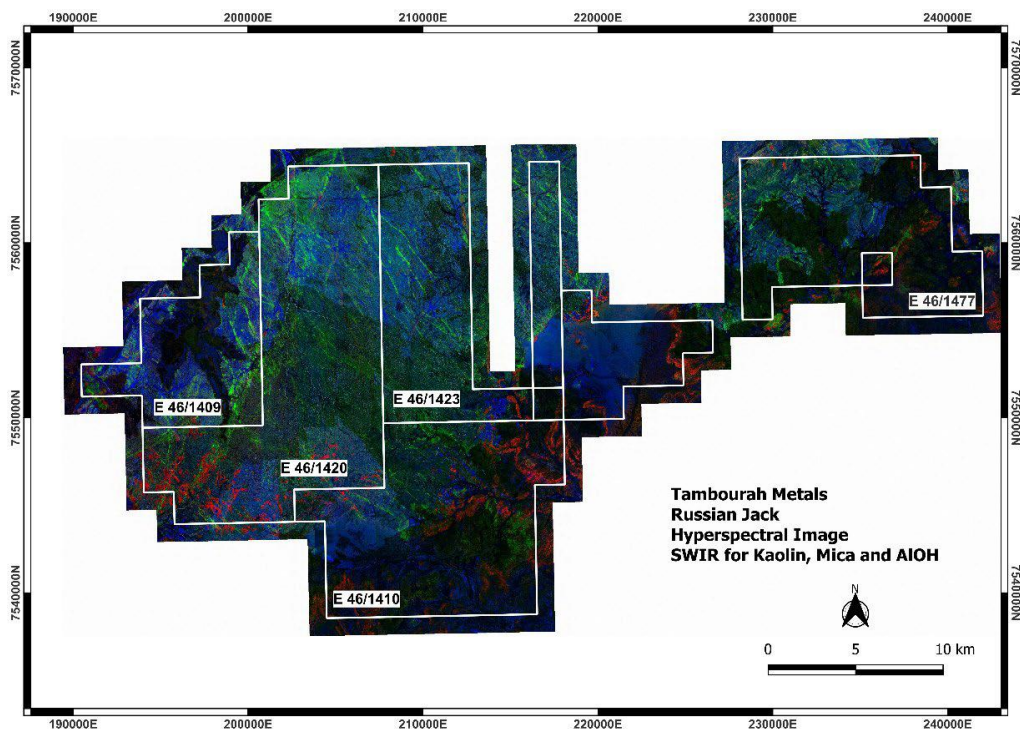


Figure 2: Russian Jack hyperspectral overview image

Executive Chairperson Rita Brooks commented “TMB is pleased to be working with Australia’s national science agency, CSIRO, to help generate new knowledge and develop new technologies to increase confidence in the exploration for lithium bearing pegmatites over large areas in difficult terrains. The collaboration will accelerate the identification of early-stage, high priority lithium bearing pegmatites.”

Kick Starter Program Overview

“The CSIRO Kick-Start program helps Australian start-ups and small SMEs (small and medium-sized enterprises) access dollar-matched funding to undertake research and development (R&D) activities with CSIRO. It is a targeted program, which forms part of CSIRO’s strategic commitment to deepen our direct support for Australian technology start-ups and SMEs in areas of national growth priorities. The CSIRO Kick-Start program is an initiative targeted to provide entry level assistance to Australian start-ups and very small SMEs to undertake research activities with CSIRO in accordance with CSIRO’s Strategy. Kick-Start vouchers are designed to facilitate projects that would not occur without financial assistance, or to increase the size and breadth of a project in order to develop more advanced outcomes”³.

Authorised on Behalf of the Board of Tambourah Metals Ltd.

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³ <https://www.csiro.au/en/work-with-us/funding-programs/sme/csiro-kick-start/about>

About Tambourah Metals Ltd

Tambourah Metals Ltd is advancing and developing critical minerals projects for a decarbonised future. The Company's primary objective is the rapid exploration and development of its flagship Tambourah Gold and Lithium project in the Pilbara. The Tambourah goldfield is an advanced gold exploration project with lithium and gold development potential. Importantly, Tambourah Metals Ltd has an exciting opportunity for further regional growth through gold and lithium exploration at its Russian Jack and Nullagine projects in the East Pilbara. The Company has also expanded its Julimar Nth and WH Sth (Ni-PGE-Cu) projects in the SW terrane. The Company's other projects include the Achilles Ni-PGE-Cu-Au in the NE Goldfields and the advanced Cheela Gold project.



Figure 3: Tambourah Metals Projects - Location Map

Competent Person Statements

The information in this report that relates to Exploration Results is based on information compiled by Mr. Kelvin Fox, a full-time employee of the company, who is a Member of The Australasian Institute of Mining and Metallurgy. Mr. Kelvin Fox has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Kelvin Fox consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Forward Looking Statements

Certain statements in this document are or may be "forward-looking statements" and represent Tambourah's intentions, projections, expectations, or beliefs concerning among other things, future exploration activities. The projections, estimates and beliefs contained in such forward-looking statements don't necessarily involve known and unknown risks, uncertainties, and other factors, many of which are beyond the control of Tambourah, and which may cause Tambourah's actual performance in future periods to differ materially from any express or implied estimates or projections.

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