

# Tambourah

— Metals Ltd —

## Tambourah Metals Ltd

### Future Facing Commodities

April 2023

ASX: TMB



# FORWARD LOOKING STATEMENT AND DISCLAIMER

The information contained in this presentation is for informational purposes only and does not constitute an offer to issue, or arrange to issue, securities or other financial products. The information contained in this presentation is not investment or financial product advice and is not intended to be used as the basis for making an investment decision. The presentation has been prepared without taking into account the investment objectives, financial situation or particular needs of any particular person. Before making an investment decision, you should consider, with or without the assistance of a financial adviser, whether an investment is appropriate to your particular investment needs, objectives and financial circumstances.

No representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information, opinions and conclusions contained in this presentation. To the maximum extent permitted by law, none of Tambourah Metals Ltd ("the Company"), their directors, employees or agents, nor any other person accepts any liability, including, without limitation, any liability arising out of fault of negligence, for any loss arising from the use of the information contained in this presentation. In particular, no representation or warranty, express or implied is given as to the accuracy, completeness or correctness, likelihood of achievement or reasonableness or any forecasts, prospects or returns contained in this presentation nor is any obligation assumed to update such information. Such forecasts, prospects or returns are by their nature subject to significant uncertainties and contingencies.

The information in this Presentation that relates to Exploration Results and Mineral Resources has been extracted from the Company's Prospectus dated 25 June 2021 and lodged with the Australian Securities and Investments Commission (ASIC) (Prospectus). The Company confirms that it is not aware of any new information or data that materially affects the Exploration Results or Mineral Resources information included in the Prospectus. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the Prospectus. This Presentation has been approved by the Board.

## Forward Looking Statements

Forward-looking statements are statements that are not historical facts. Words such as "expect(s)", "feel(s)", "believe(s)", "will", "may", "anticipate(s)" and similar expressions are intended to identify forward looking statements. These statements include, but are not limited to statements regarding future production, resources or reserves and exploration results. All of such statements are subject to certain risks and uncertainties, many of which are difficult to predict and generally beyond the control of the Company, that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties include, but are not limited to:

- i. those relating to the interpretation of drill results, the geology, grade and continuity of mineral deposits and conclusions of economic evaluations;
- ii. risks relating to possible variations in reserves, grade, planned mining dilution and ore loss, or recovery rates and changes in project parameters as plans continue to be refined;
- iii. the potential for delays in exploration or development activities or the completion of feasibility studies;
- iv. risks related to commodity price and foreign exchange rate fluctuations;
- v. risks related to failure to obtain adequate financing on a timely basis and on acceptable terms, or delays in obtaining governmental approvals or in the completion of development or construction activities; and
- vi. other risks and uncertainties related to the Company's prospects, properties and business strategy. Prospective investors in the Company are cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof, and the Company not undertake any obligation to revise and disseminate forward looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of or non-occurrence of any events.

## Competent Person Statement

The information in this report that relates to Exploration Results is based on information compiled by Mr Kelvin Fox exploration manager 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.

Authorised by the Board of Tambourah Metals Ltd.

# Tambourah Metals Ltd Advancing Gold & Critical Minerals in Western Australia



# Exploration Highlights

- Tambourah has a portfolio of critical minerals and gold projects in Western Australia.
- **Gold** drill results at Tambourah have added to the mineral resource at the historic Tambourah goldfield.
- Extensive portfolio of **Lithium** exploration projects in the Pilbara.
- **Ni-Cu-PGEs** in the Julimar North region and ready to advance exploration in Q2/3.
- **REE** (Rare Earth Elements) exploration at Achilles and Adam Range.



# Investment Summary



## PILBARA GOLD

- Over 10 Million ounces of gold has been discovered in the last 10 years.
- Three Gold Projects in the Pilbara Region Tambourah, Cheela and Nullagine
- Positive results from maiden drilling program completed at Tambourah Gold Project Additional Drilling planned for Q2/3 2023



## CRITICAL MINERALS

- Three Lithium Projects in the Pilbara Region, which hosts two Tier 1 world class lithium mines
- Two exciting Ni PGE Cu Au projects at Julimar North and Achilles in the NE Goldfields
- Exploration Rare Earth Elements (REE) at Achilles and Adam Range

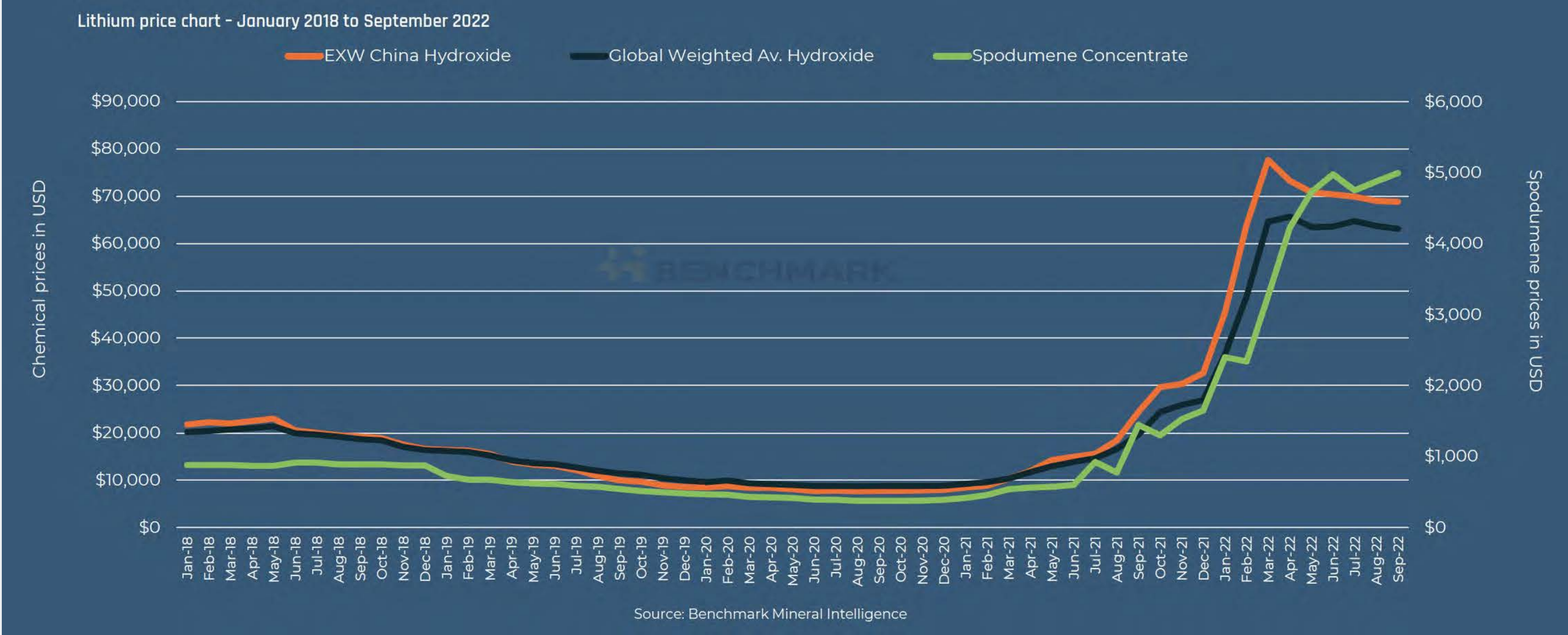


## KEY FUNDAMENTALS

- Experienced Board and management
- Strong business strategy to contribute to a growing demand for renewable energy.
- Developing advanced gold mining projects in Tier 1 mining regions
- High standards for Work Health and Safety, Environmental, Social (Community Relations) and Governance

# “Demand for Lithium is expected to outstrip supply by 2030... 18 more Pilgangoora Mines need to be developed to meet this demand.”

(Pilbara Minerals presentation)



Lithium Price Chart January 2018 - 2022

# Expanding Lithium Exploration

According to Lowy Institute article “The Race To Lithium”<sup>1</sup>

- The increasing reliance on renewable energy and electric vehicles (EVs) could lead to supply chain risks.
- Demand for lithium could exceed supply reserves by 250% in a 2050 net zero emissions future.
- Up to 20 countries have announced phase-out bans on internal combustion engine car sales, leading to a forecasted demand for 300 million EVs by 2030.
- Global lithium reserves of 22 million metric tonnes could be exhausted by EV use alone by 2030.
- Chile has 47% of global lithium reserves, followed by Australia with 17%.
- Exploration for new lithium supplies is underway to meet rising demand.

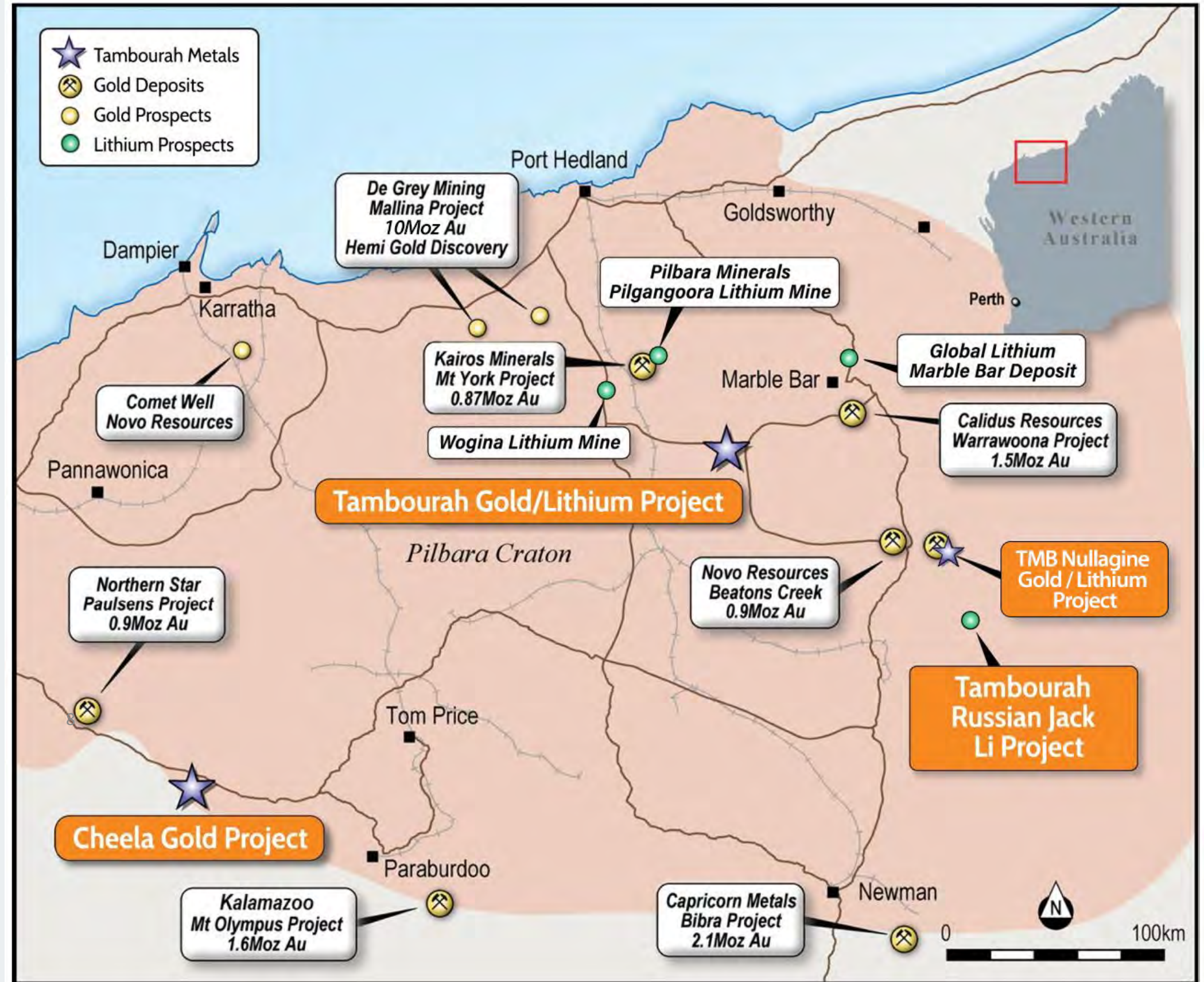


1. [www.lowyinstitute.org/the-interpreter/race-lithium](http://www.lowyinstitute.org/the-interpreter/race-lithium)

# Pilbara Region

## TMB PROJECTS

Russian Jack	Lithium
Nullagine	Gold-Lithium
Tambourah	Gold-Lithium
Cheela	Gold



Tambourah Metals Pilbara Projects – Location Map

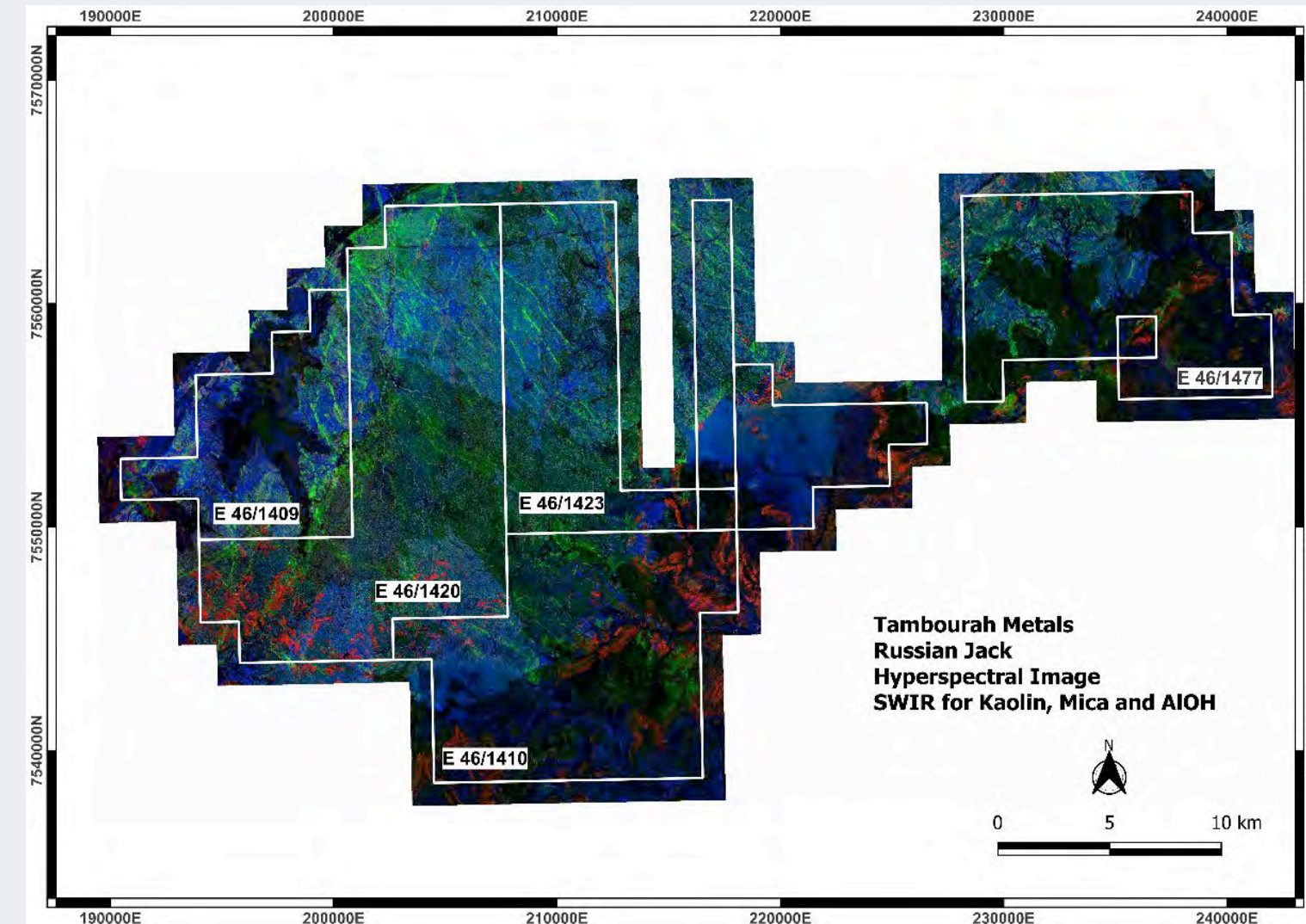


# CSIRO Collaboration at Russian Jack Lithium Project

- TMB has entered a collaboration partnership with Australia's national science agency, CSIRO, under the Kick-Start program.
- The aim is to use machine learning and hyperspectral data to define exploration targets in the Russian Jack Lithium project
- The project covers an area of approximately 320km<sup>2</sup>
- The collaboration will accelerate the identification of early-stage, high-priority lithium-bearing pegmatites in the Russian Jack project<sup>1</sup>
- Machine learning and hyperspectral data have not been applied to L-C-T pegmatite exploration targets in the East Pilbara<sup>2</sup>
- The new machine learning outputs should reduce the search space significantly.

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

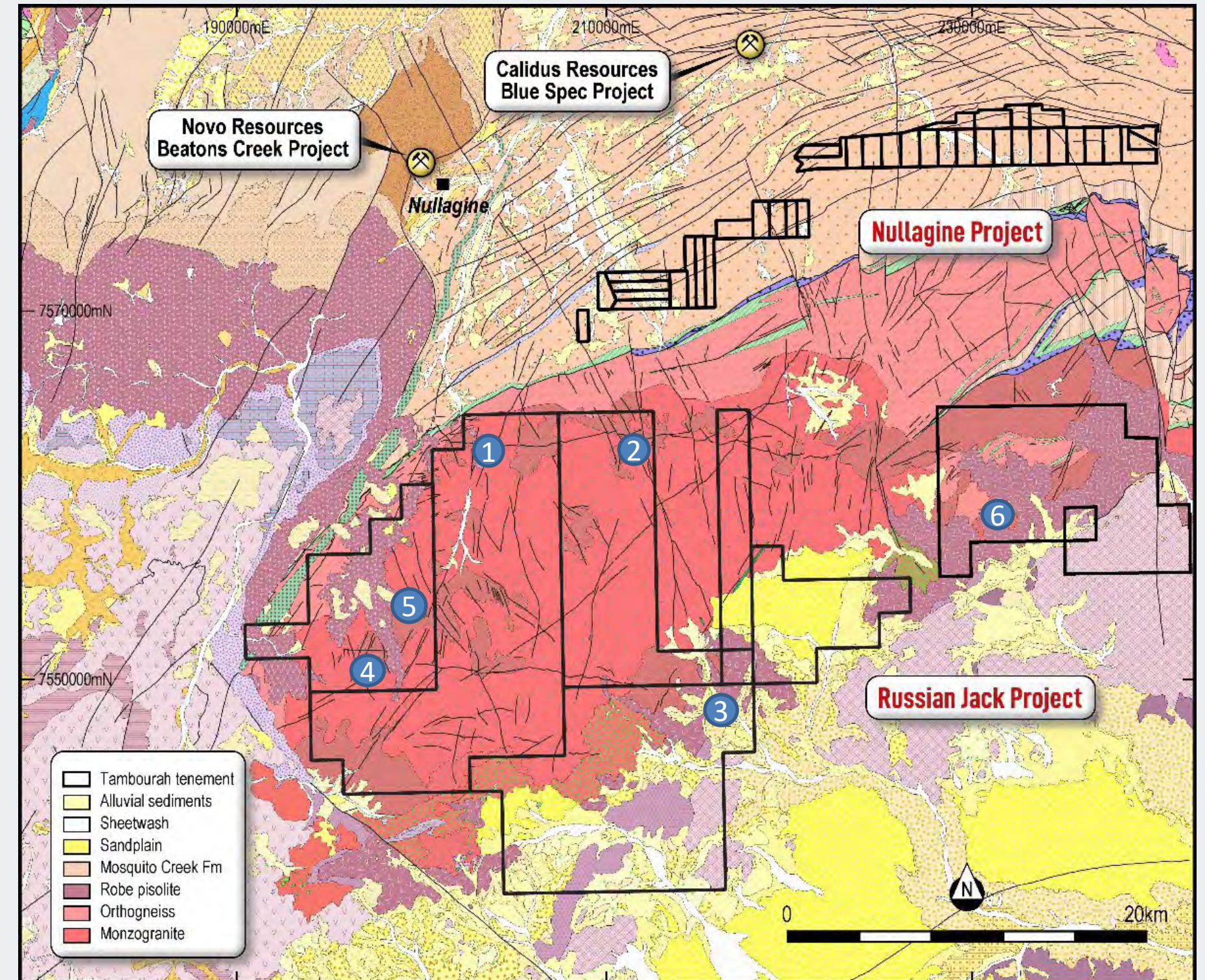
2. Applying supervised machine learning to reduce critical minerals search space in the Pilbara (OD-230619). CSIRO Internal document to TMB.



Russian Jack hyperspectral overview image

# Russian Jack Lithium Exploration

- Tambourah is exploring for lithium in the Split Rocks Granite Supersuite within the Pilbara.
- Wodgina and Pilgangoora are tier 1 lithium mines located within 150kms of the project.
- Pegmatites have been identified in the Nullagine goldfield within the Ta-Sn-Li historic prospects.
- Sampling at Russian Jack has commenced
- 1-6 pegmatite locations will be sampled.
- Heritage surveys are commencing



Nullagine & Russian Jack Tenements and Geology

# Russian Jack Pegmatite Swarms

- Pegmatites of over 500m in length and 8m high have been identified.
- Sampling at the RJ 101 project confirmed multiple pegmatites
- Anomalous assay results for lithium bearing pegmatites in the northern portion of E 46 / 1420 (RJ 101 project)

Sample ID	Easting	Northing	Li	Rb
RJRK001	202338	7564268	455	1930
RJRK002	202346	7564245	571	1390
RJRK003	202417	7564199	169	1570
RJRK004	202421	7564173	1420	1840
RJRK005	202446	7564114	244	618
RJRK006	202254	7564417	123	656
RJRK007	202373	7564431	49.6	452

Table 1: Russian Jack Rock Chip Sample Results



Pegmatites at Russian Jack Project

# Tambourah Lithium Exploration

- Tambourah geologists are continuing sampling and mapping trips
- New pegmatites identified with several of these pegmatites over 50 m in length.
- The samples are located close to the granite-greenstone contact that is becoming a significant pegmatite exploration target.
- The sample locations are shown in figure 2.
- Work at EL 45/5497 will also continue in Q2 2023.
- To the south pegmatites have been identified during helicopter based reconnaissance and work is continuing in 2023.



Figure 1:Tambourah Pegmatites 725916mE/7588001mN

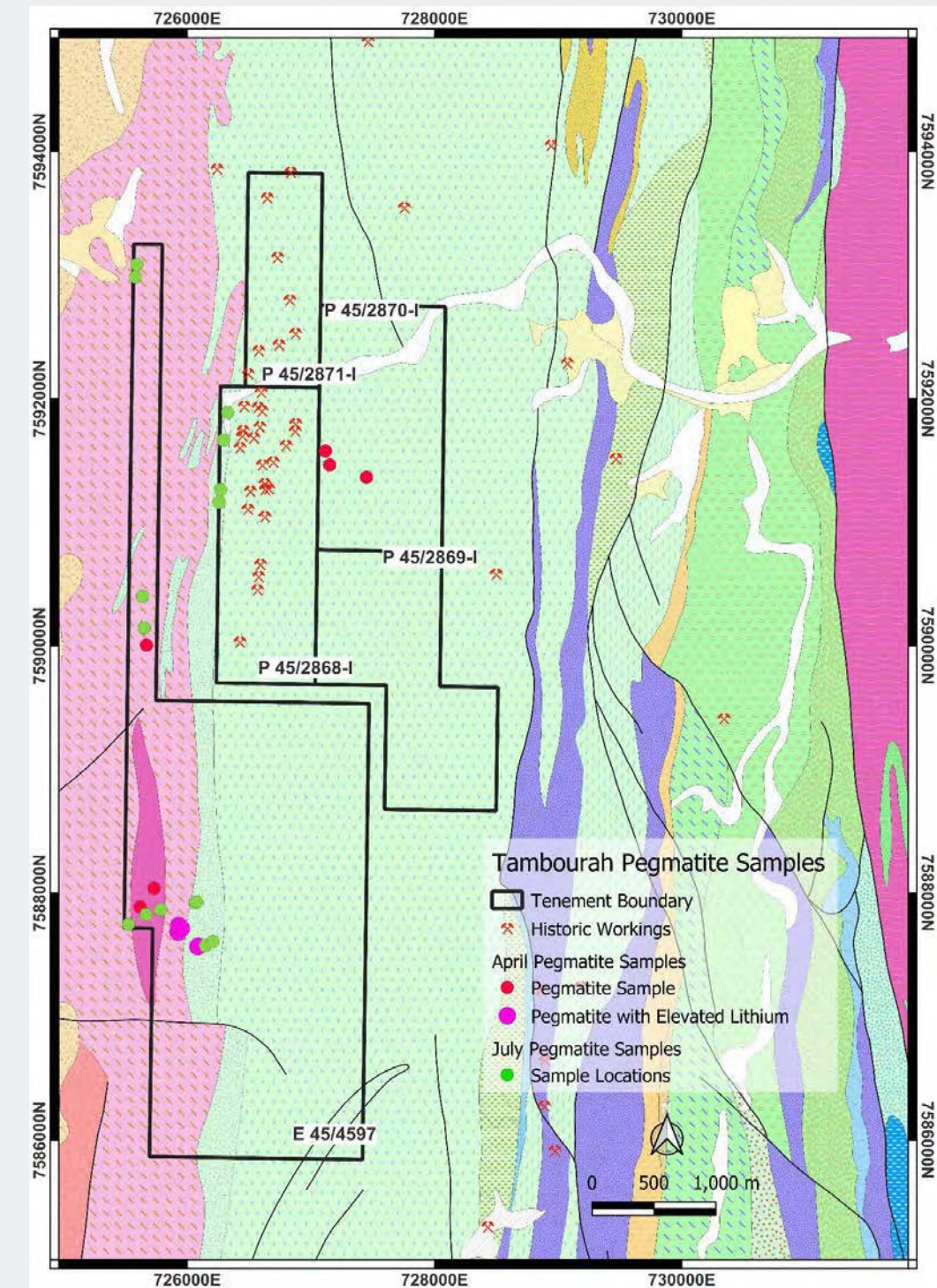
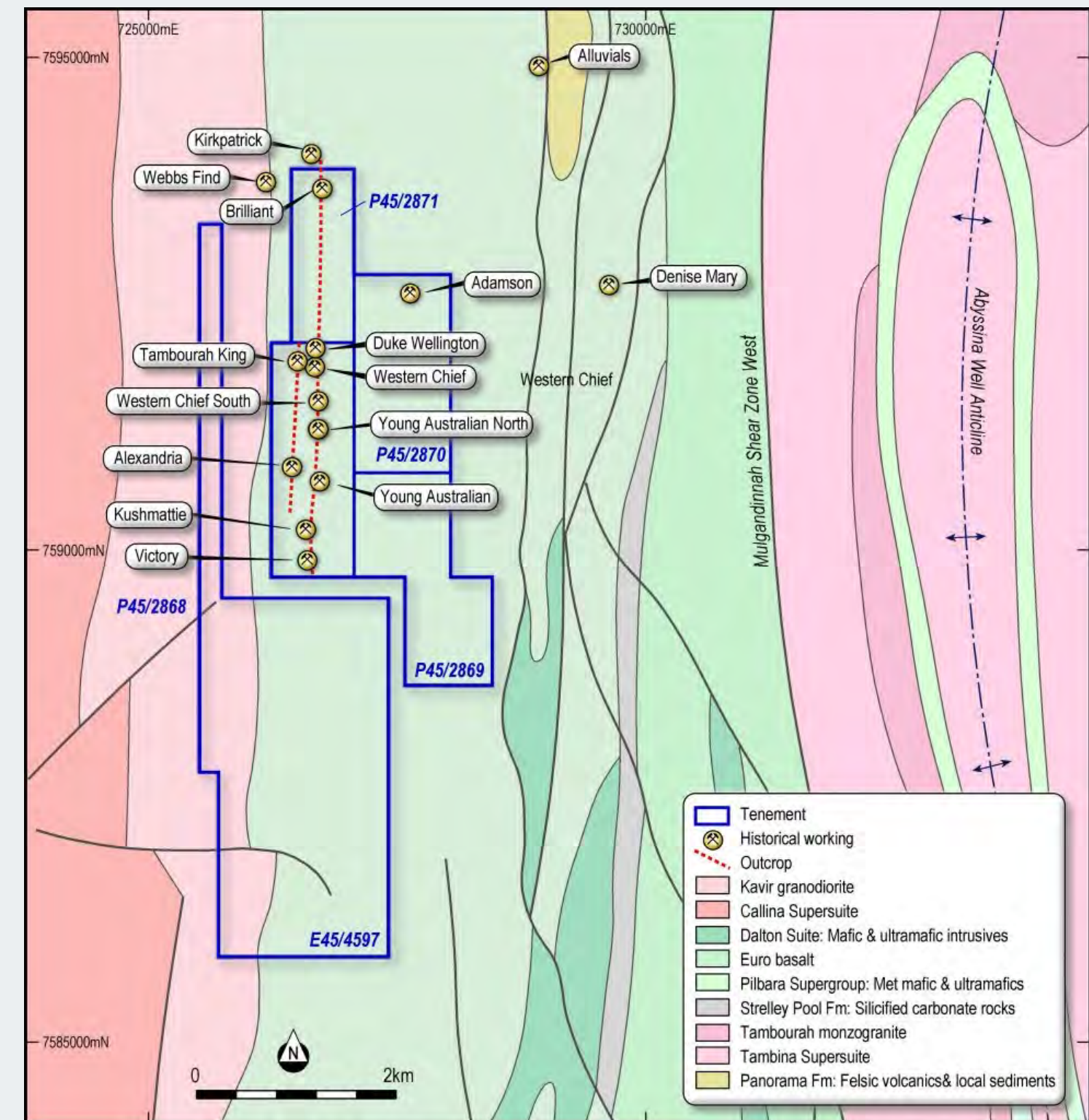


Figure 2:Tambourah Pegmatite Locations

# Gold Exploration at Tambourah

- Gold was discovered in the 1890s and high-grade gold (1 ounce per tonne) in quartz veins was mined from the surface by prospectors.
- Tambourah Metals has now consolidated the historic goldfield. The company has 4km of strike including the numerous historic gold mines.
- The Goldfield has had limited exploration in the last 50 years.
- First drill results at Federal included in 2022 incl: 1m@5.31g/t Au (TBRC015)
- High Grade Gold Intercepts from the 2022 RC drilling at Tambourah incl:
  - 22m @1.38g/t Au; incl. 3m@7.78g/t Au; and 2m@6.57g/t Au (TBRC002)
  - 2m@3.77g/t Au (TBRC003)
  - 2m@1.63g/t Au; and 6m@ 1.03g/t Au (TBRC018)
- Reprocessing the magnetic and radiometric data has identified new targets
- Field work included sampling of lithium bearing pegmatites
- Planned drilling at:
  - Tambourah King , Western Chief , Western Chief South, Federal, Kushmattie



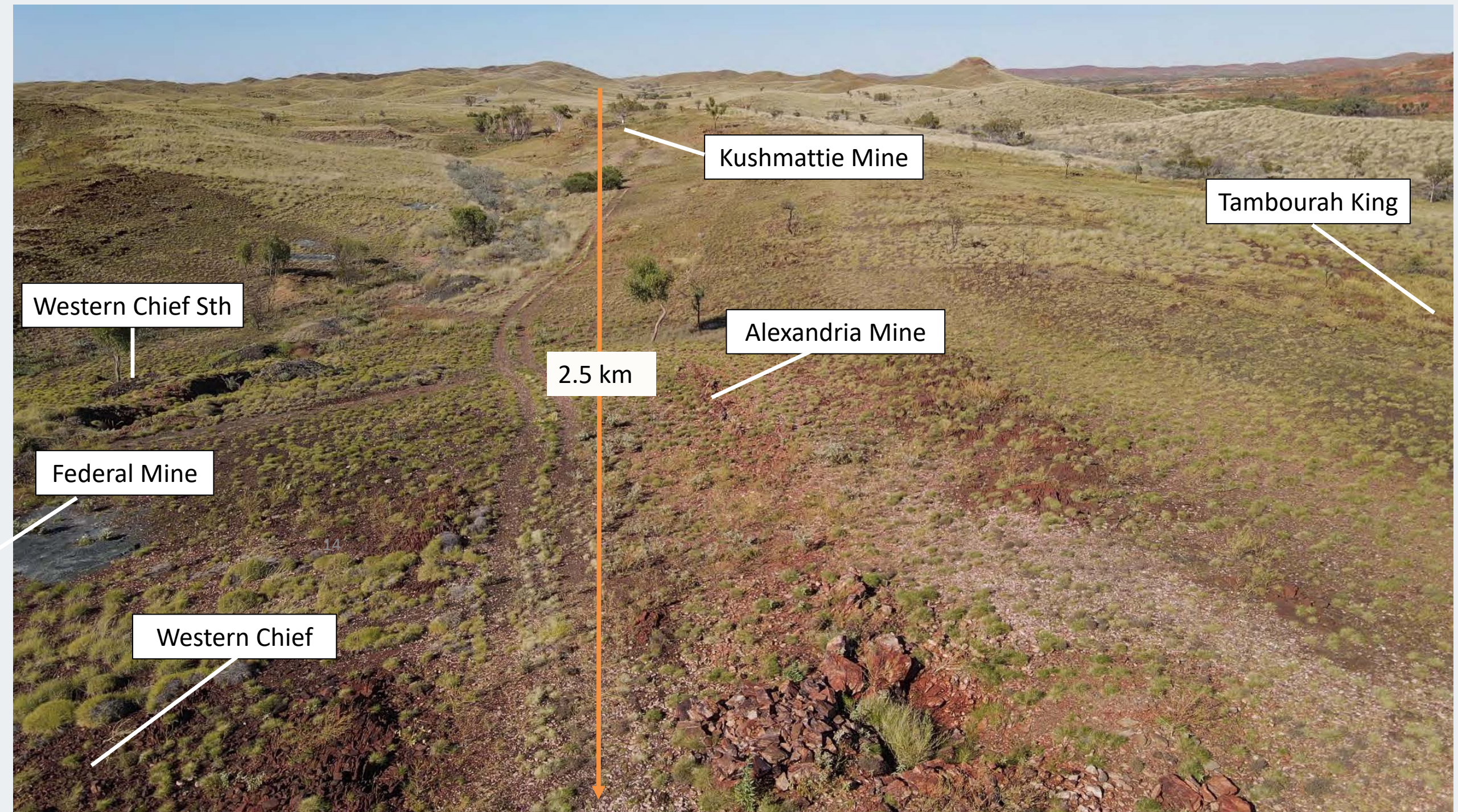
Tambourah Historic Goldfields Location Map

# Gold Mines at Tambourah

- Drilling at Tambourah at selected historic gold mines.
- Significant drill results at TMB King<sup>1</sup>.
- 2.5km strike length from Kushmattie to Western Chief.

Follow up work will include:

- Mining lease applications.
- Commence IP survey to identify extensions of disseminated sulfide, which hosts the gold mineralisation.
- Heritage Clearance & Drilling.
- IP survey and a second round of RC drilling will follow up the RC drill results.



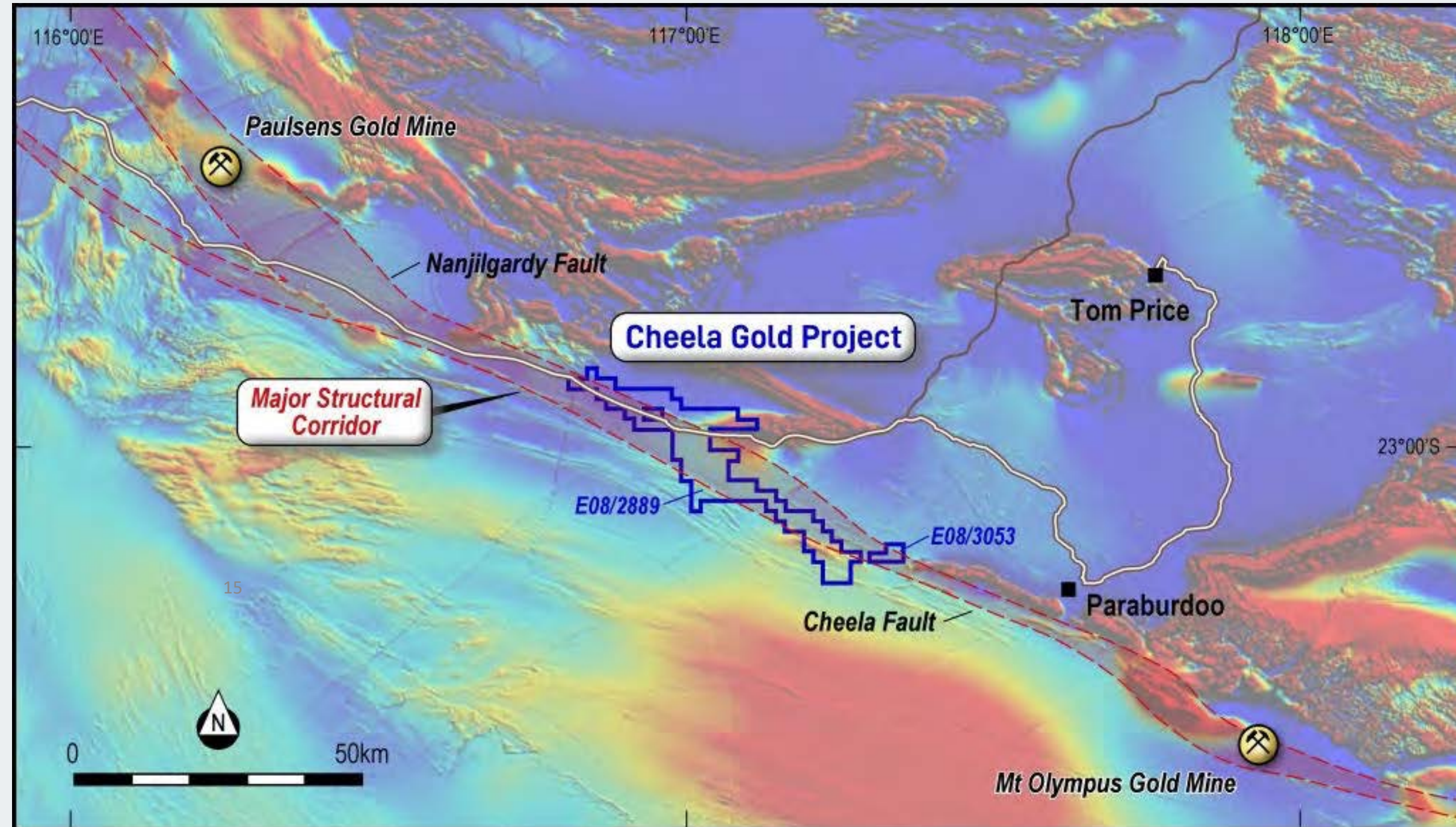
1. Tambourah Metals (TMB) ASX announcement 14th June 2022

Tambourah Historic Goldfields Location Photo

# Cheela Gold Project

Located on the Nanjilgardy Fault, hosting over 3.5 million oz of gold in 3 Gold Mines

- Tambourah Cheela project has over 70km of strike along the fault with gold results
- Paulsens Gold Mine – 900,000 oz
- Plans to reopen the mine in 23/24
- Mt Olympus Gold Mine – 1.6 million oz
- Capricorn Metals<sup>1</sup>, Karlawinda Gold Mine – 2.1 million oz is located at the southern end of the Nanjilgardy Fault.



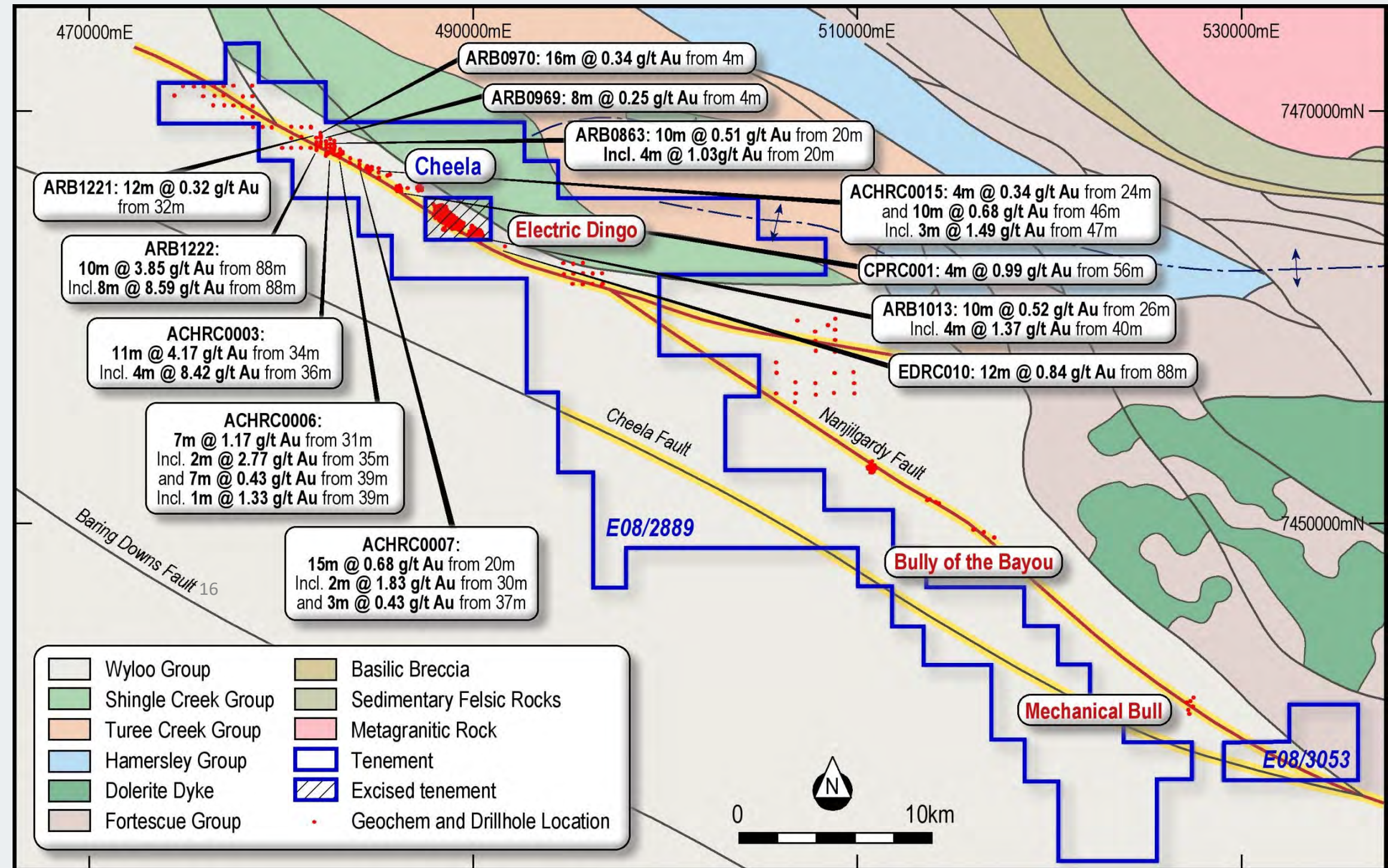
Cheela Gold Project Location

1. Capricorn Metals (CMM) ASX announcement 17th April 2020

# Cheela Gold Project

Historic grades of gold identified from drilling over the last 25 years include:

- 8m @ 8.59g/t Au from 88m
- 11m @ 4.17g/t Au from 36m
- TMB has approved drill programs to explore at Cheela once heritage clearances are completed.
- Cheela South has extensive historical soil sampling and several gold prospects

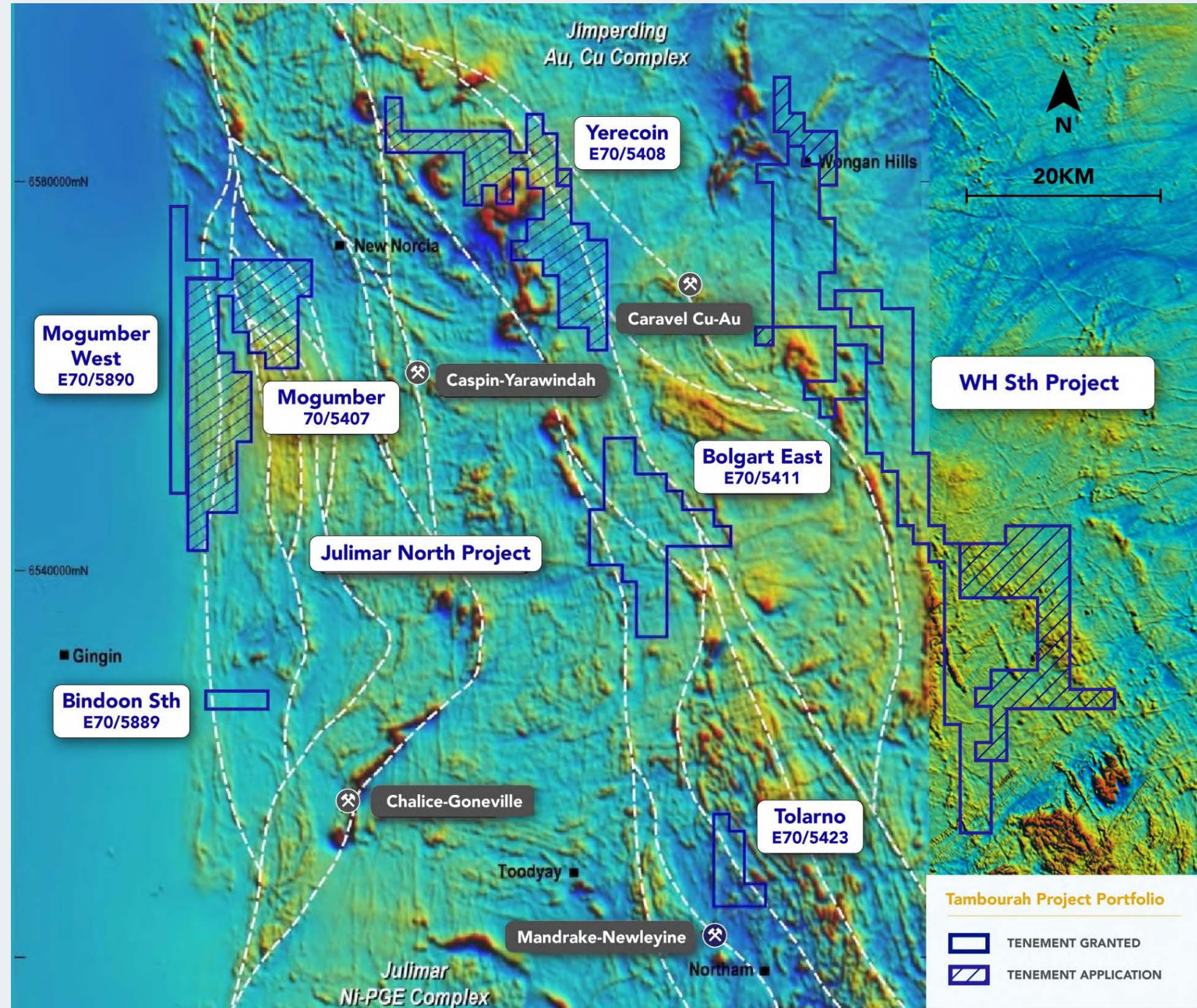


Cheela Historic Drilling Results



# Julimar North Ni/PGE/Cu

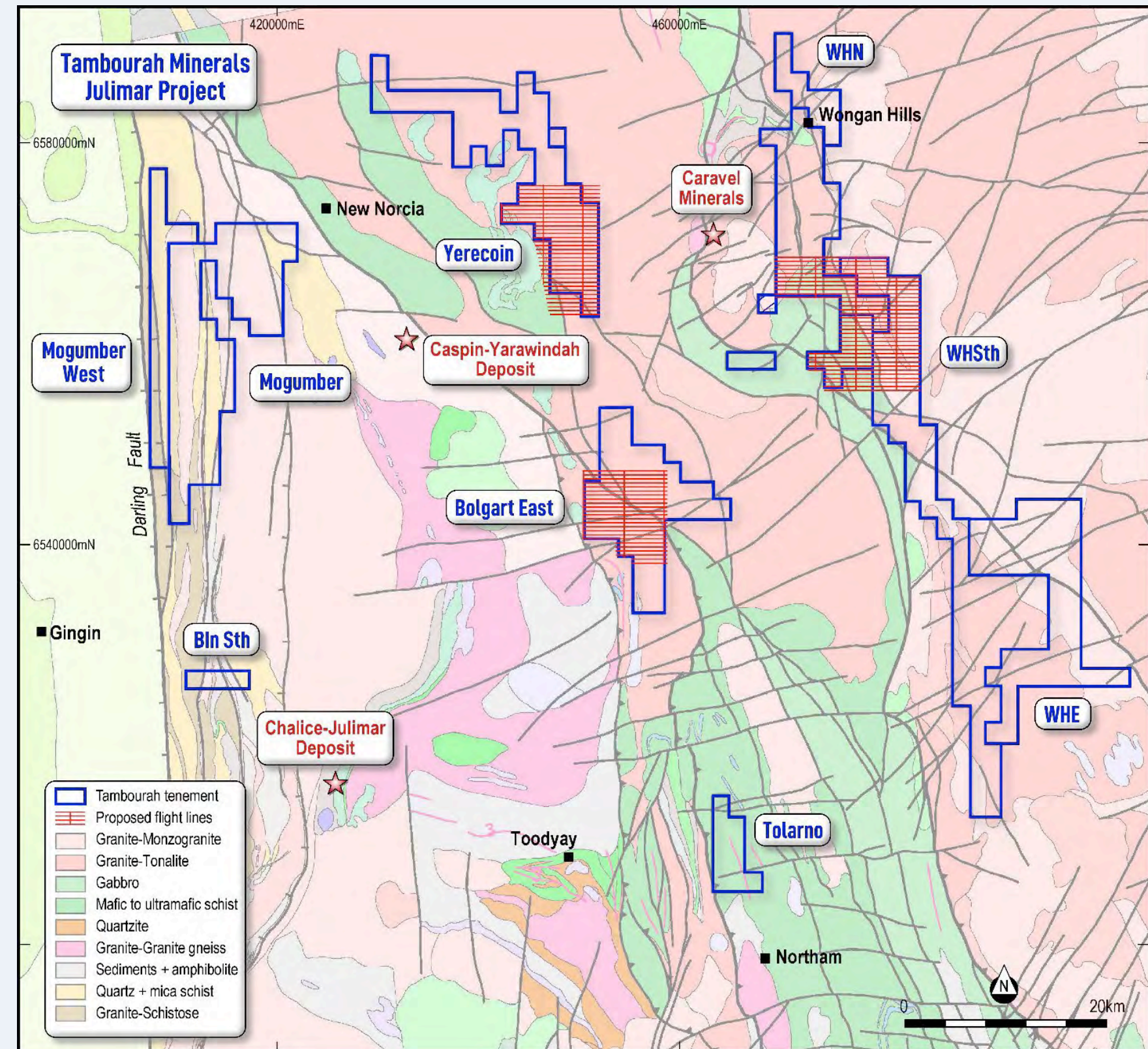
- Tambourah Metals has the largest exploration portfolio in the Julimar Region after Chalice Mining
- Chalice Mining is developing its Gonneville Ni-Cu-PGE resource at Julimar
- 2 Tier 1 mines are within a 50 km radius
- Caravel Resources is developing a Cu/Mo/Au mine West of Wongan Hills. A 25-year mine life is planned
- Tambourah has announced the results of the MMT survey and soil sampling results included copper anomalies.



Julimar North Project Locations Map

# MMT Survey at Julimar North

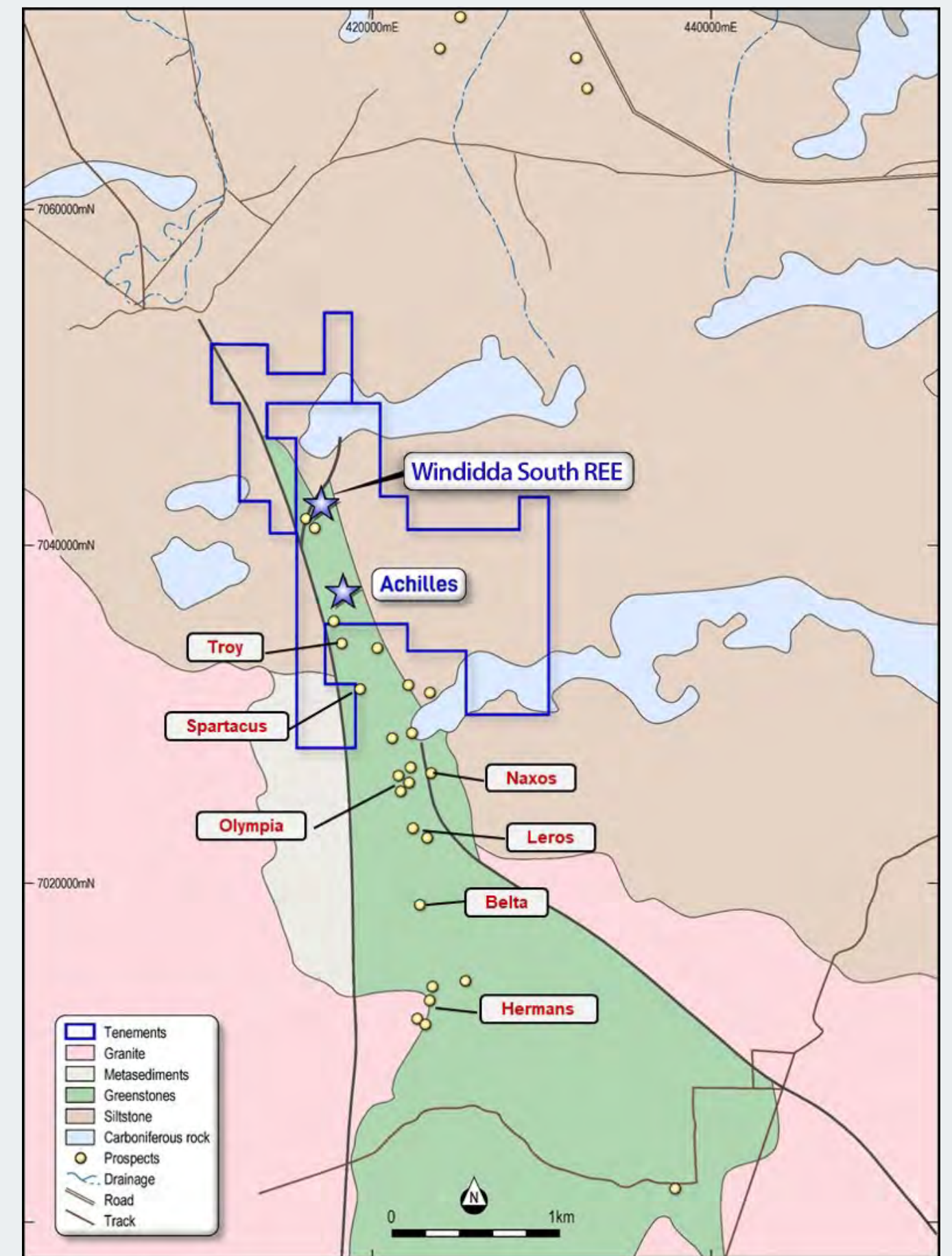
- The Bolgart East tenure is prospective for hosting Gonneville style Ni-Cu-PGE mineralisation within ultramafic rocks.
- The significance of these rocks with respect to the MMT conductors and the regional structures will be further investigated.
- Yerecoin, like Bolgart East, is prospective for hosting Gonneville styles of mineralisation in ultramafic rocks. Gabbros have been identified in scattered subcrop at Yerecoin.
- At WH Sth significant copper in soils will be the focus of the planned exploration in Q2/3.
- The WH Sth targets are located within a 5 km radius of the Caravel Resources Cu-Mo Au project in an area that hosts multiple magnetic anomalies.



Julimar North Project Locations Map

# Achilles Ni/PGE/Au/REE

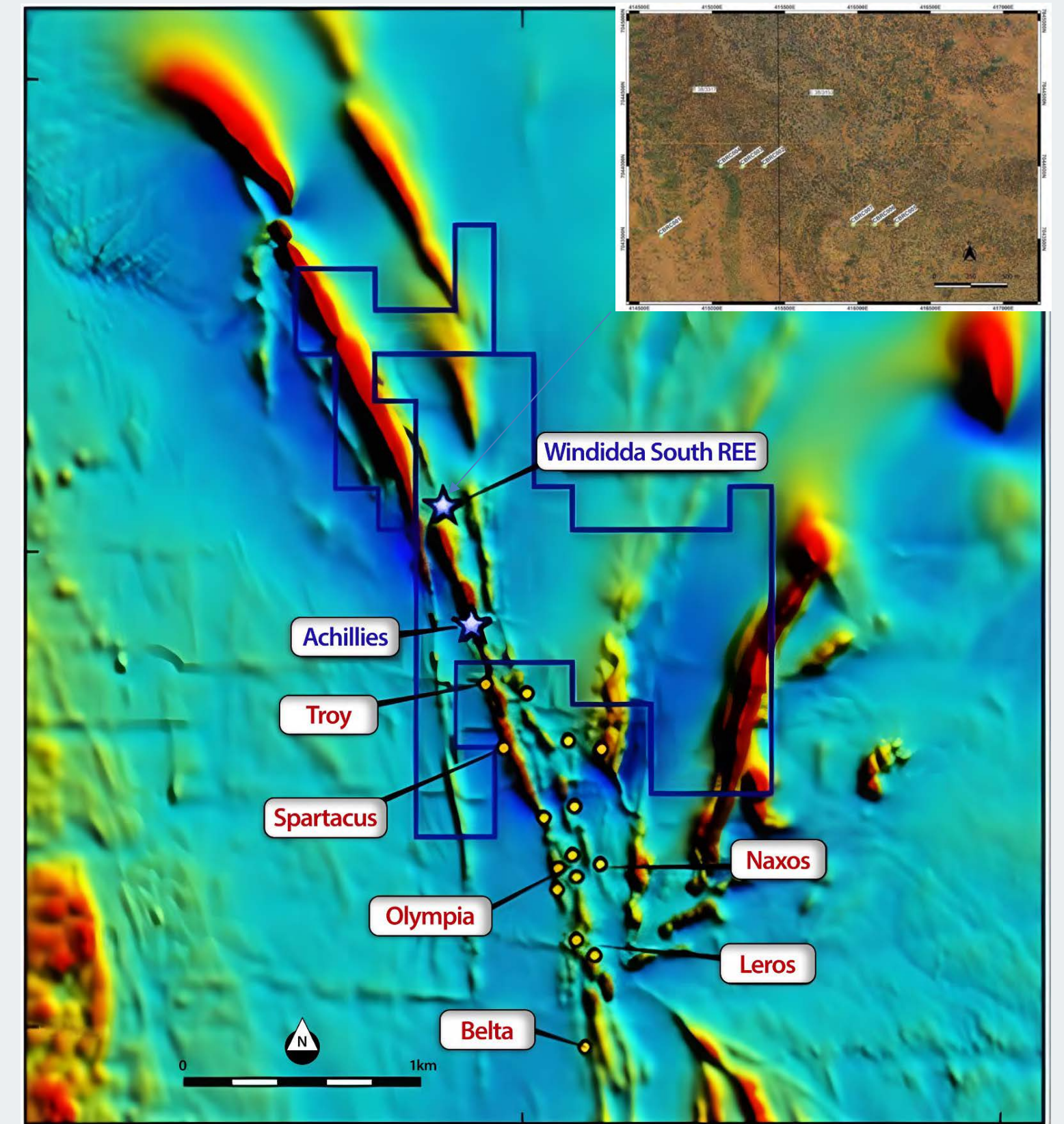
- In 2007 the Creasy group undertook comprehensive assaying of rock chip samples (including the full suite of REEs) from the RC drilling program. At Windidda, holes CBRC001, CBRC006 and CBRC007 reported TREO assay grades from 202ppm – 579ppm in saprolitic clays between 12-36m deep. All samples were 4m composite samples.



Achilles Project Location Map

# Achilles NE Goldfields REE

- Rare Earth Elements (REE) identified in historic drilling at Achilles Project
- In 2007 the Creasy group undertook comprehensive assaying of rock chip samples (including the full suite of REEs) from the RC drilling program. At Windidda, holes CBRC001, CBRC006 and CBRC007 reported TREO assay grades from 202ppm – 579ppm in saprolitic clays between 12-36m deep. All samples were 4m composite samples.
- Located about 1km North of the Olympia Nickel deposit
- Prospective for Ni-PGE-Au-Zn mineralization<sup>1</sup>
- Historic drilling appears to have missed the main AEM anomalies
- Aircore drilling completed at the Windidda REE project



Achilles Location Magnetic

# ESG – Sustainability



## ENVIRONMENT

Commitment to minimise ground disturbance, CO2 emissions & water usage in exploration activities



## SOCIAL

Continued engagement with local suppliers and recognising Traditional Owners and Native Title Agreements



## GOVERNANCE

Integrate best practice environmental and social standards into corporate governance principles

# Corporate Overview

CAPITAL STRUCTURE	
Share Price (16/03/2023)	\$0.097c
Cash (15/03/2023)	\$3.2M
Debt	Nil
Ordinary Shares	40.5M
Escrowed shares (24 Months)	24.5M
Total Shares On Issue	65M
Market Cap	\$6.3M
Share Code (ASX)	TMB

## TMB: SHARE PRICE PERFORMANCE



# Board and Management



Rita Brooks  
**Executive Chairperson**  
BA(Ed)



Peter Batten  
**Non-Executive Director**  
BAppSc(Geol), BappSc,  
MAusIMIM



Chris Ramsay  
**Non-Executive Director**  
MPM, BSc, MAusIMM



Graeme Smith  
**Company Secretary**  
MBA, MComLaw, FCPA, FCG (CS,  
CGP), MAusIMM

# Tambourah

— Metals Ltd —

## DIRECTORS


Ms. Rita Brooks	Executive Chairperson
Mr. Chris Ramsay	Non-Executive Director
Mr. Peter Batten	Non-Executive Director
Mr. Graeme Smith	Company Secretary

## CONTACT US

For more information please contact:  
Rita Brooks | Executive Chairperson  
[rita.brooks@tambourahmetals.com.au](mailto:rita.brooks@tambourahmetals.com.au)  
+61 8 9481 8669  
  
Admin | Head Office  
[admin@tambourahmetals.com.au](mailto:admin@tambourahmetals.com.au)  
+61 8 9481 8669

[Tambourahmetals.com.au](http://Tambourahmetals.com.au)

# ASX:TMB

 [instagram.com/tambourahmetals](https://www.instagram.com/tambourahmetals)

 [twitter.com/TambourahM](https://twitter.com/TambourahM)

 [linkedin.com/company/tambourahmetals](https://www.linkedin.com/company/tambourahmetals)