



**TG METALS**

# LAKE JOHNSTON PROJECT HIGH GRADE LITHIUM DEPOSIT

LITHIUM | NICKEL | GOLD

R I U G O L D C O A S T R E S O U R C E S S H O W C A S E

J U N E 2 0 2 4

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## **Competent Persons Statement**

Information in this presentation that relates to exploration results, exploration targets, geology, drilling and mineralisation is based on information compiled by Mr David Selfe who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Selfe has sufficient experience that is relevant to the style of mineralization and type of deposit under consideration and to the activities that 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 Selfe has consented to the inclusion in this presentation of matters based on their information in the form and context in which it appears.

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The Company believes that it has a reasonable basis for making the forward-looking Statements in the presentation based on the information contained in this and previous ASX announcements.

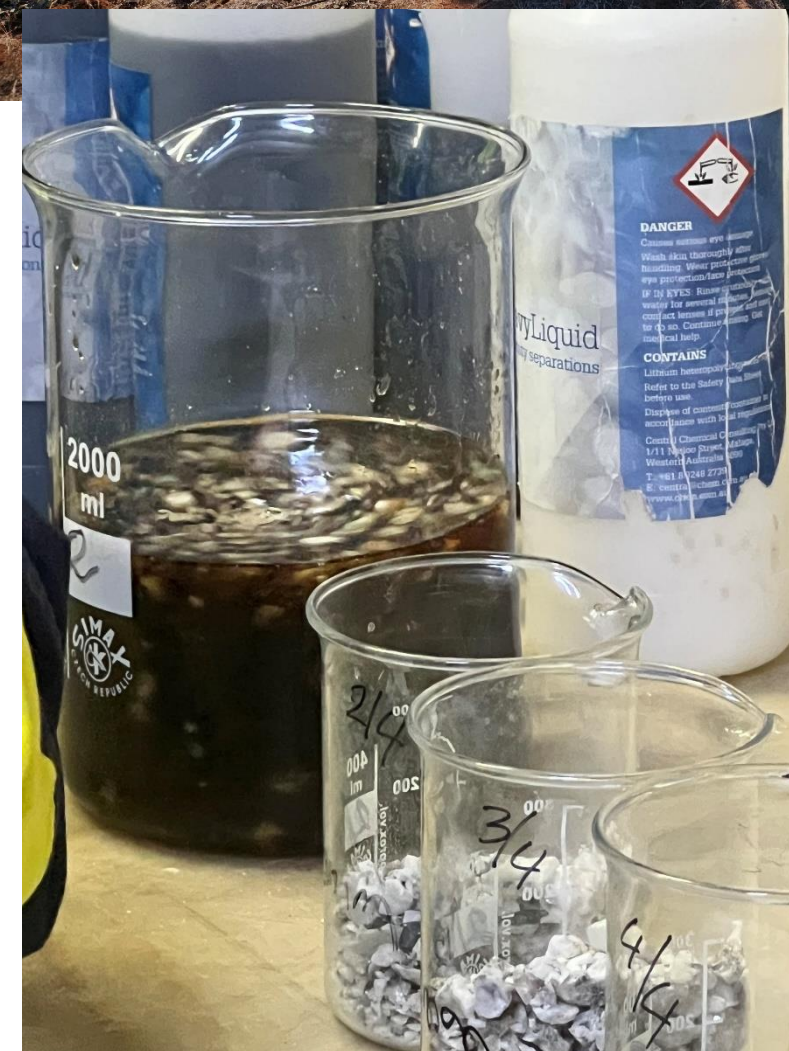
The Company is not aware of any new information or data that materially affects the information included in this ASX release, and the Company confirms that, to the best of its knowledge, all material assumptions and technical parameters underpinning the exploration results in this release continue to apply and have not materially changed.

## **Cautionary Statement – Visual Estimates**

This presentation contains references to visual results and visual estimates of mineralisation. The Company draws attention to uncertainty in reporting visual results. Visual estimates of mineral abundance should never be considered a proxy for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations.

# Lithium Focused Exploration & Development

- Recent discovery - Burmeister Lithium deposit progressing to maiden resource
- Maiden drilling of 5 high priority Li targets at Jaegermeister underway
- Results of new Seismic program expected to show the potential of the pegmatite field
- First metallurgical tests underway, processing methodology and product definition



**MAKING DISCOVERIES**

# Corporate Overview

## CAPITAL STRUCTURE

Current shares on issue	71.1M
Cash (as at 31 March 2024)	\$9.1M
Market Cap (at \$0.21/share)	\$14.2M
Unlisted Options*	16.53M
Performance Rights**	5.1M
Enterprise Value	\$5.1M

\* 7.81m Vendor & Seed options: 3 year expiry, \$0.20 and \$0.25 exercise

\* 3m Director & Management options: 5 year expiry, \$0.30 exercise

\* 3.225m Broker options: 30 June 2024 expiry, \$0.30 exercise & 2.0m Broker options: 9 Feb 2027 expiry, \$1.125 exercise

\* 0.5m Corporate Advisor Options: 31 Oct 2024 expiry, \$0.30 exercise

\*\* Various VWAP based incentive milestones (starting from 20 day VWAP exceeding \$0.40)

## SHAREHOLDER COMPOSITION

Top 50 Shareholders	55.43%
Directors & Management	5.40%

## DIRECTORS & MANAGEMENT

**Mr Richard Bevan** - Non Executive Chairman

**Mr Brett Smith** - Non Executive Director

**Ms Gloria Zhang** - Non Executive Director

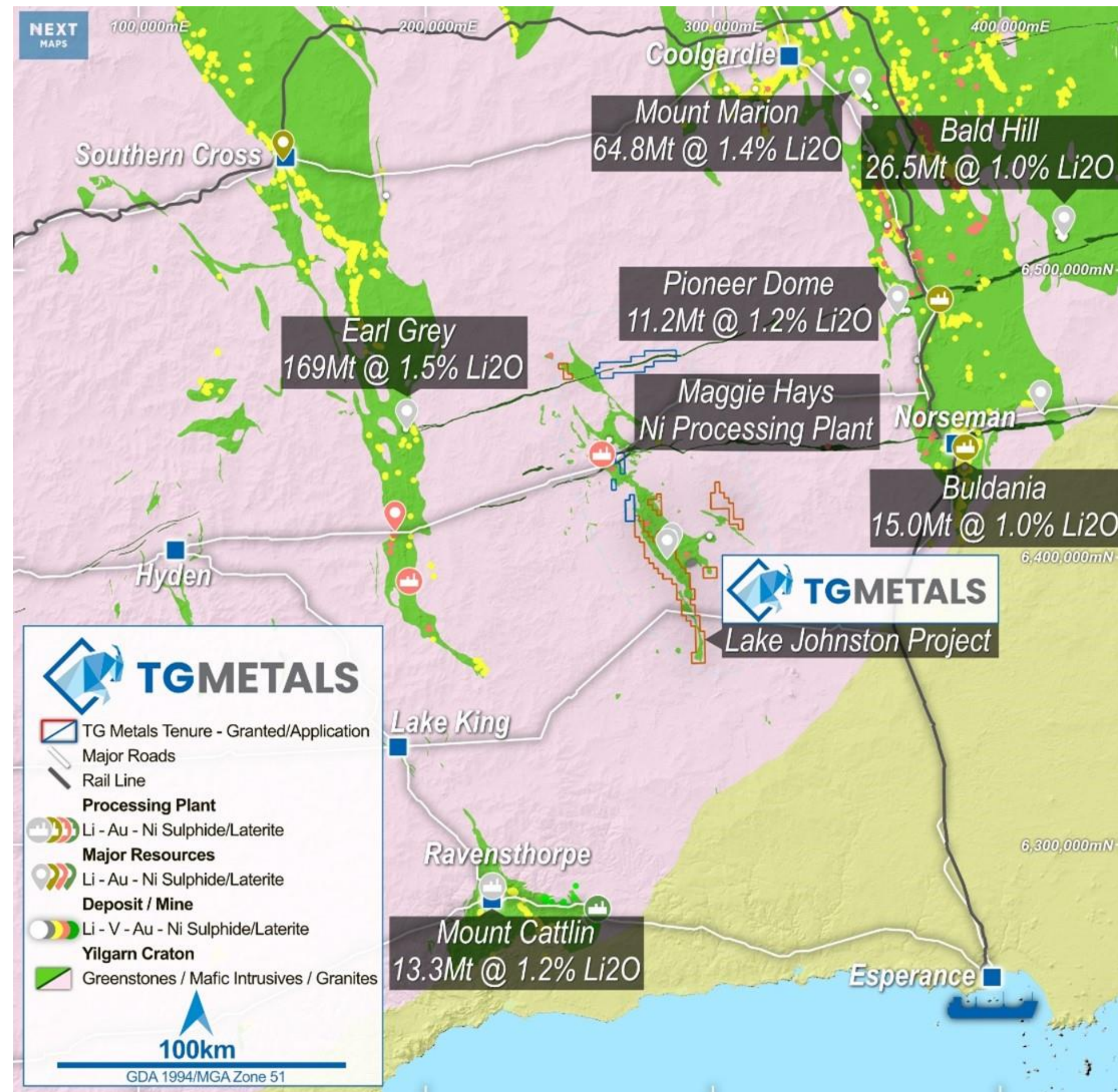
**Mr David Selfe** - Chief Executive Officer

**Ms Nicki Farley** - Company Secretary

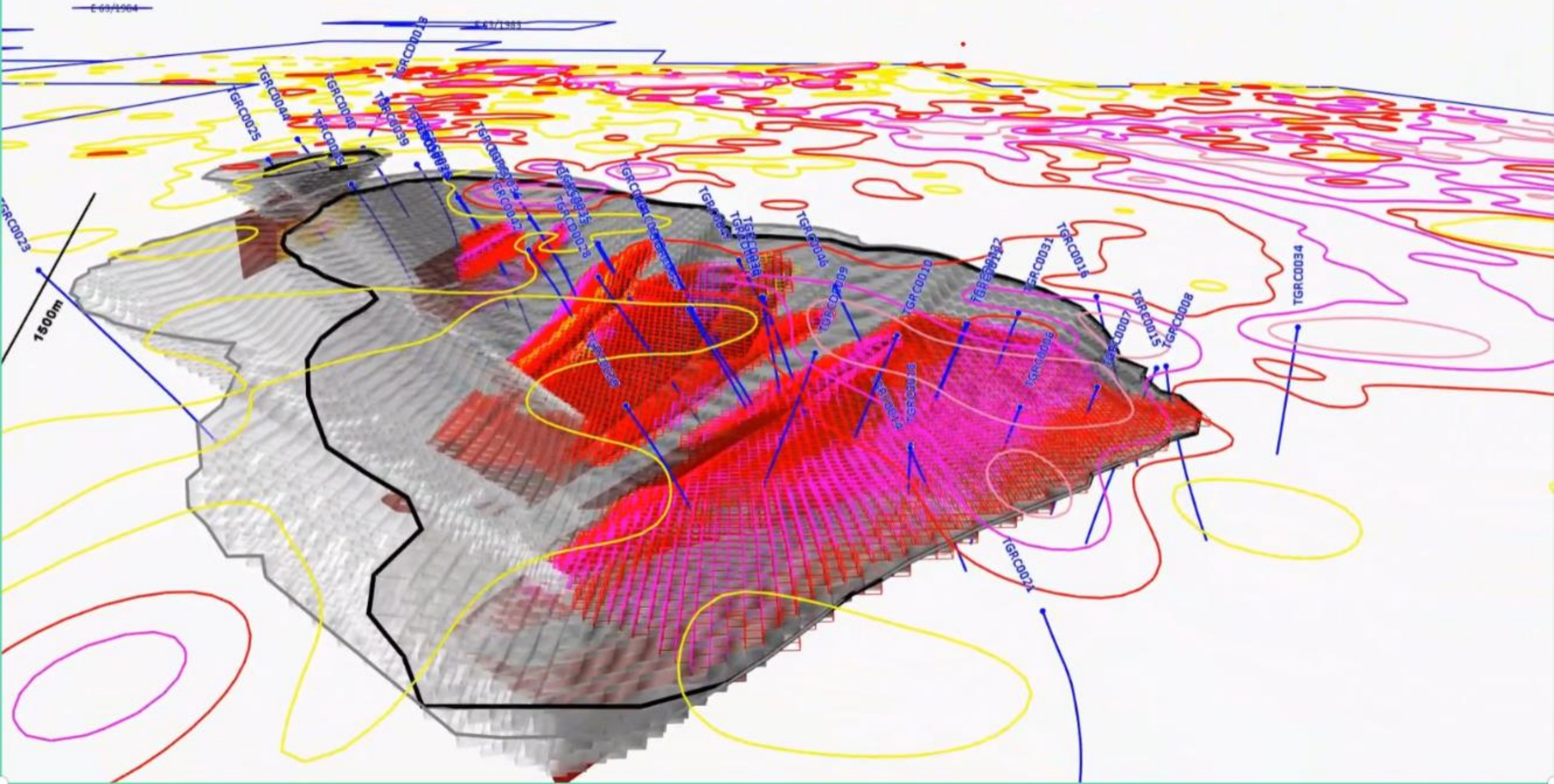
# Lake Johnston Region of Western Australia

- 4 operating lithium mines
- Close to Esperance Port
- TG Metals has the dominant land holding over Lake Johnston greenstone belt
- TG Metals Burmeister lithium deposit is largest in the belt, comparable to regional deposits

**Proven lithium endowment**



# Burmeister Lithium Pegmatite Deposit



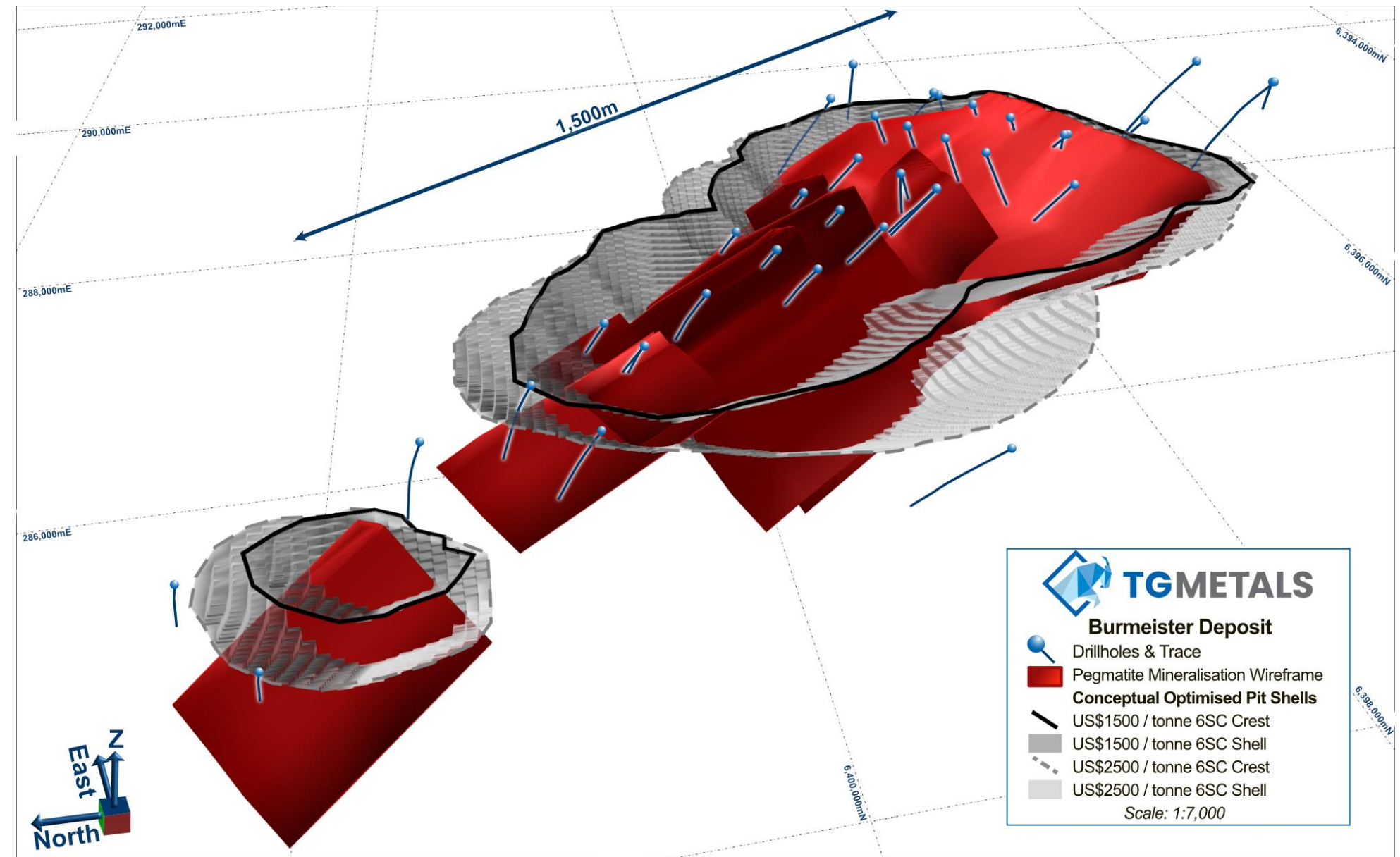
# Burmeister Deposit

- Stacked pegmatite system
- Main deposit 1,500m in strike
- Exploration Target Statement\*

Tonnes Range Low	Tonnes Range High	Li <sub>2</sub> O Range Low (%)	Li <sub>2</sub> O Range High (%)
15.6 million	20.1 million	0.97	1.19

At 0.4% Li<sub>2</sub>O cutoff

- Based on modelling of new drilling
- Conceptual pit shells derived from operating mine data and conservative assumptions



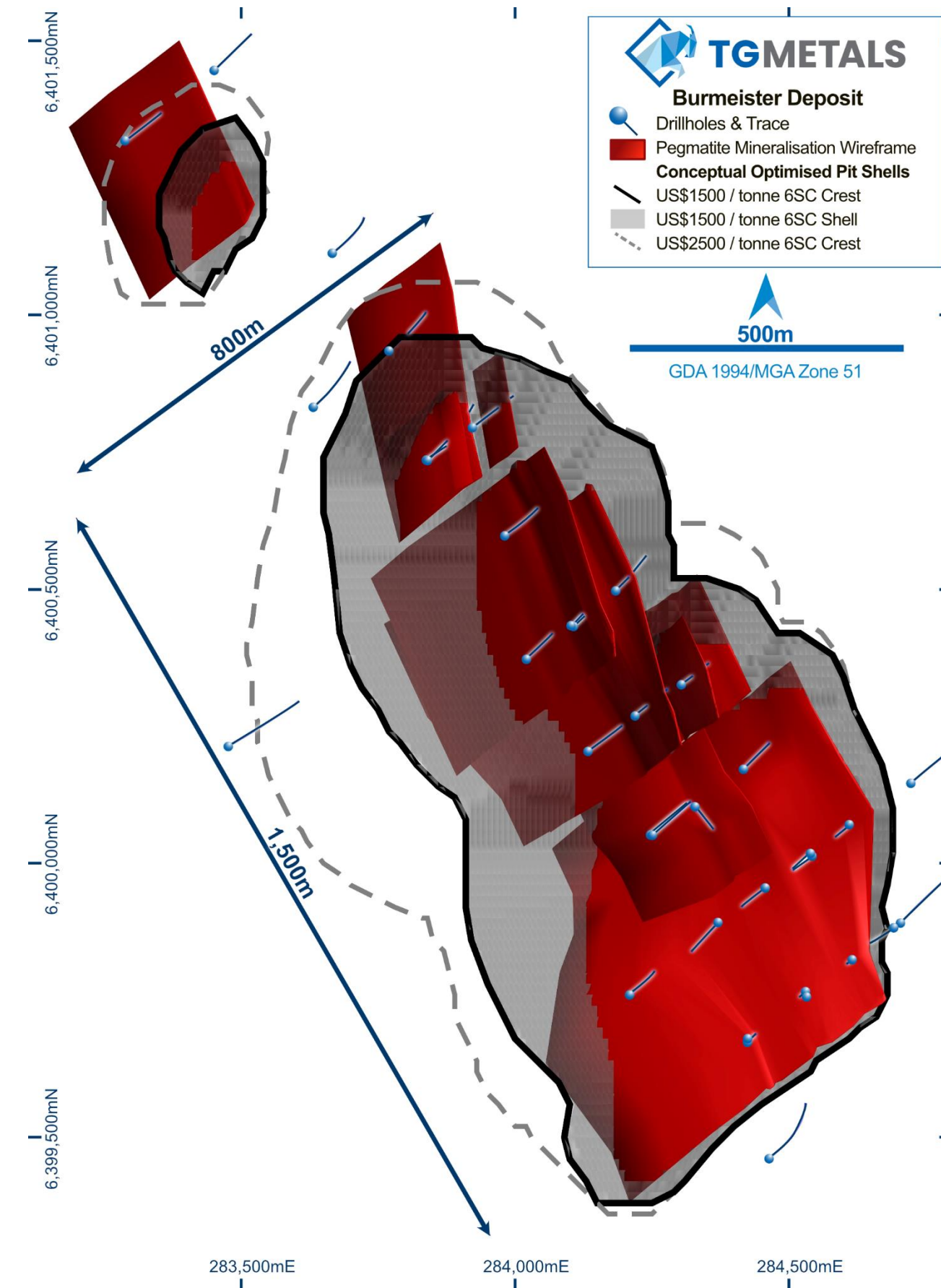
**Burmeister - A significant hard rock lithium deposit**



# Burmeister Deposit

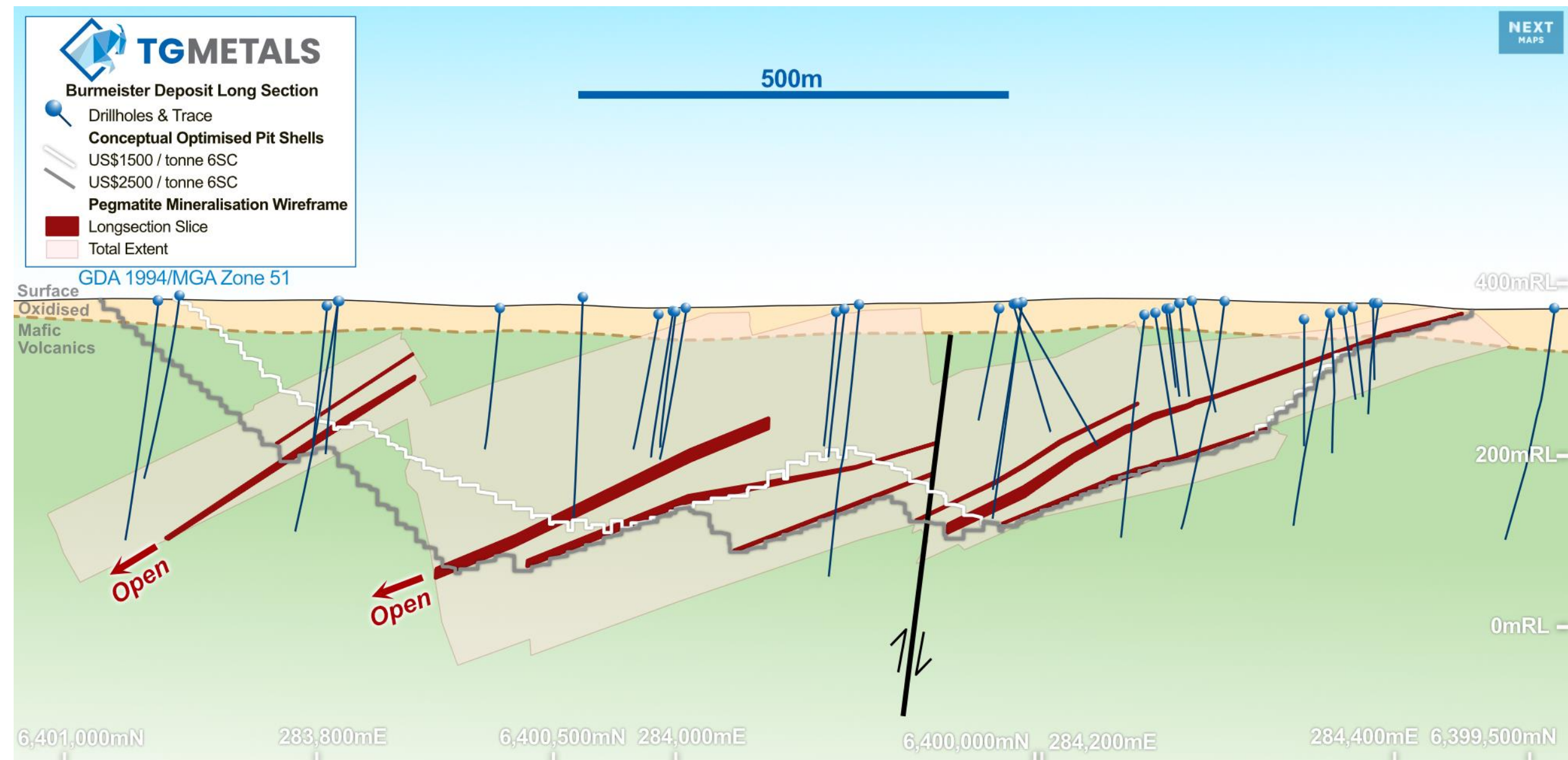
- Potential standalone size and grade
- Untested upside within and proximal to conceptual pit shells to be defined by Seismic survey results
- Best drill intercepts from recent drilling\*:
  - 23.5m @ 1.52%  $\text{Li}_2\text{O}$ , from 127.4m
  - 20m @ 1.38%  $\text{Li}_2\text{O}$ , from 120m
  - 20m @ 1.13%  $\text{Li}_2\text{O}$ , from 129m
  - 10.5m @ 1.60%  $\text{Li}_2\text{O}$ , from 87.2m
  - 7.6m @ 1.37%  $\text{Li}_2\text{O}$ , from 119.4m

**High grades and consistent mineralisation**



# Burmeister Pegmatites

- Shallow weathering profile
- Stacked pegmatites with shallow dips
- Optimised pit shells take in majority of modelled mineralisation – **open at depth**
- Spodumene occurs throughout the pegmatites
- 100m x 100m infill to get inferred resource

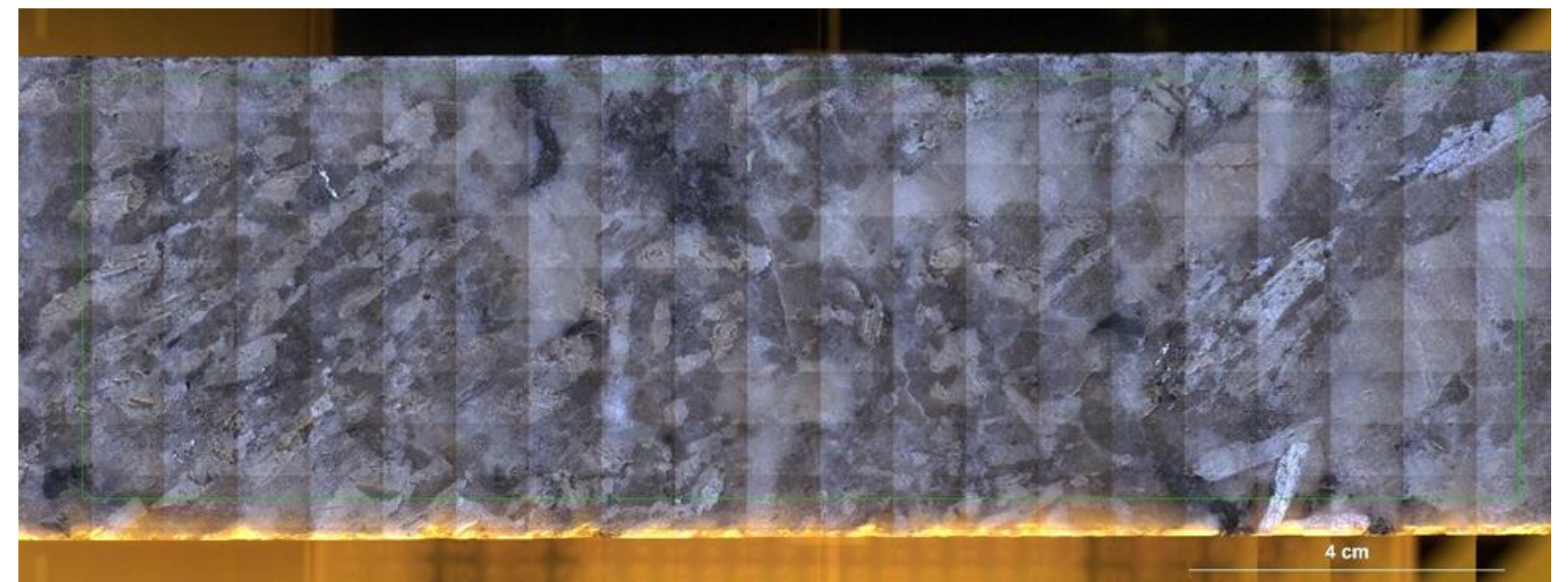
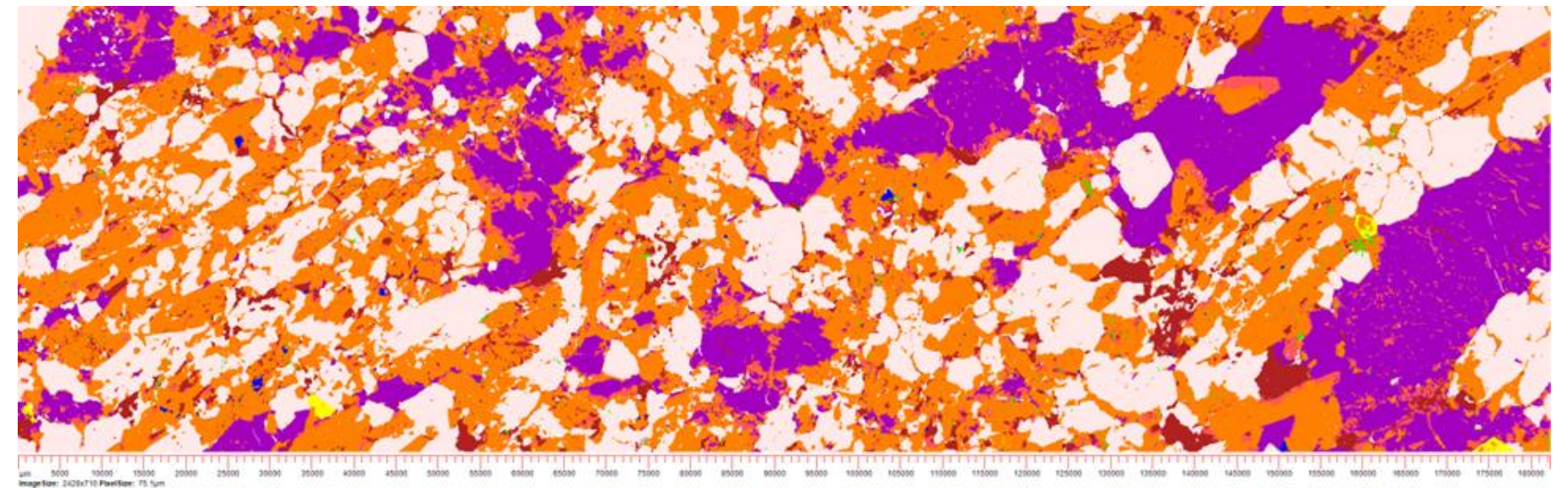


**Open down dip, up dip and along strike**

# Burmeister Mineralogy

- Spodumene identified as the dominant mineral @ 35.9%
- Simple mineralogy suggests simple, low-cost metallurgy for concentrate production
- Sighter metallurgy tests underway on composite core samples
- Ore sorting, HLS underway, flotation to follow
- First stage in selecting a preferred flowsheet

Mineral	Area%	Colour	Mineral	Area%	Colour
Spodumene	35.90	Orange	Pollucite	0.16	Yellow
Quartz	34.24	Light Pink	Apatite	0.14	Blue
Microcline (Rb-Bearing)	19.23	Purple	Zircon	0.02	Light Yellow
Albite	5.17	Red	Spessartine	0.02	Light Blue
Zinnwaldite	4.83	Dark Red	Tapiolite	<0.01	Olive Green
Columbite	0.27	Bright Green	Zn-Phase	<0.01	Cyan

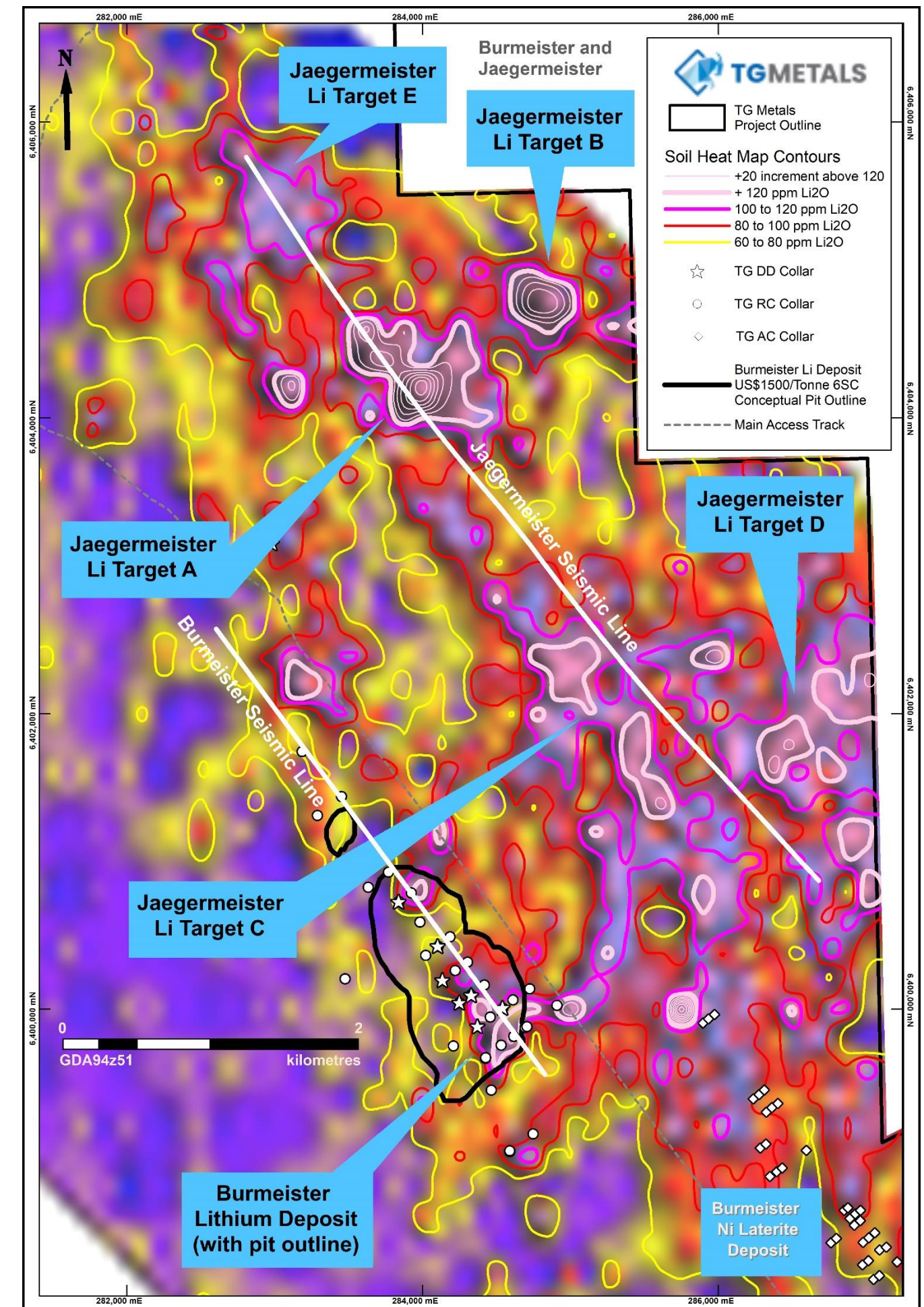


**Simple Mineralogy = Simple Metallurgy**

# Jaegermeister Prospect

- Burmeister the first of several high tenor lithium soil anomalies to be drilled
- Drilling POW's approved. Drilling commenced with 2 RC rigs
- Jaegermeister has five (5) high priority drill targets
- All five targets are larger than Burmeister
- Seismic field work completed – processing ongoing, results to refine the drilling program
- Targets A and B first drill priority

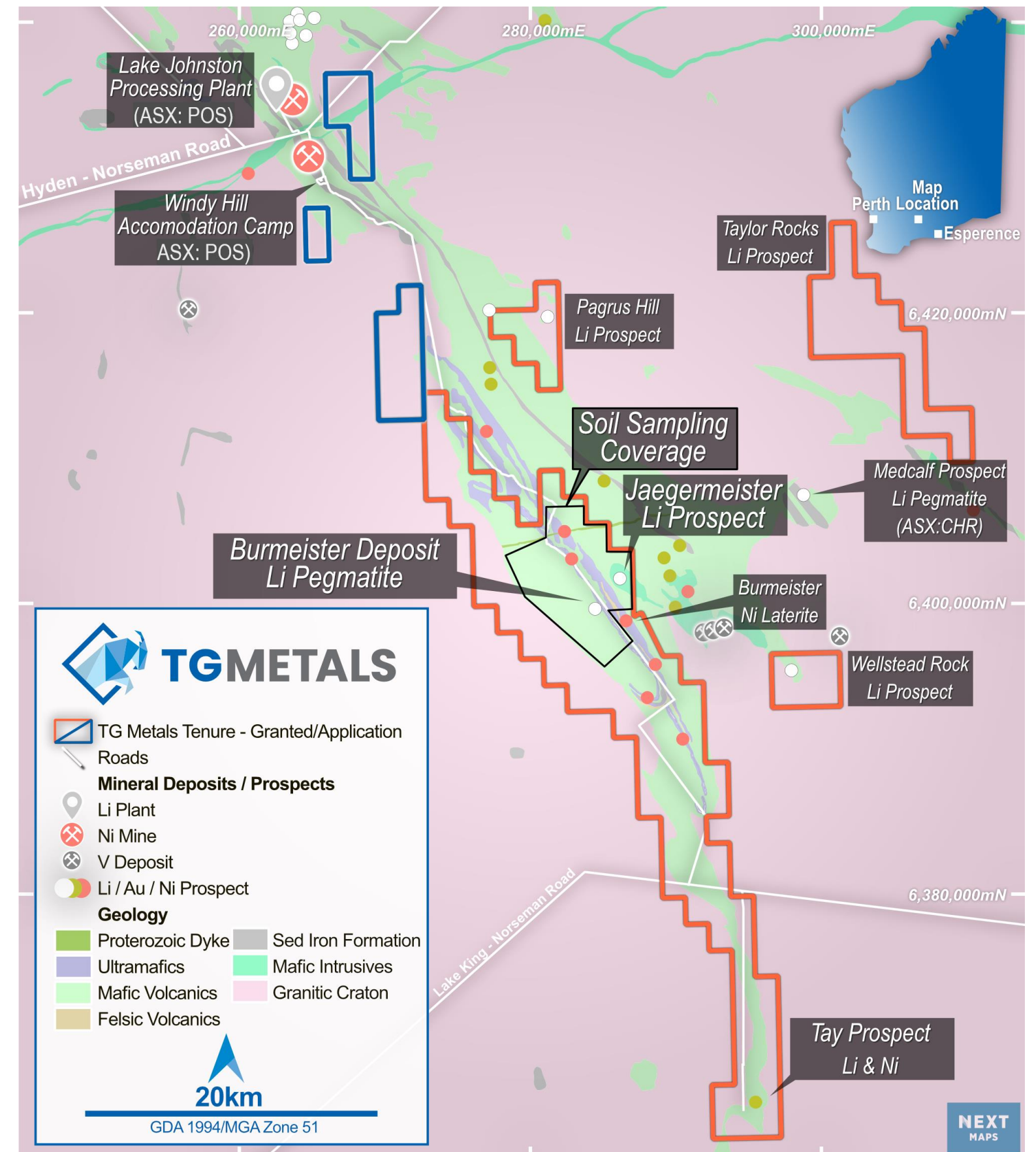
**Learnings from Burmeister guides the drilling at Jaegermeister**



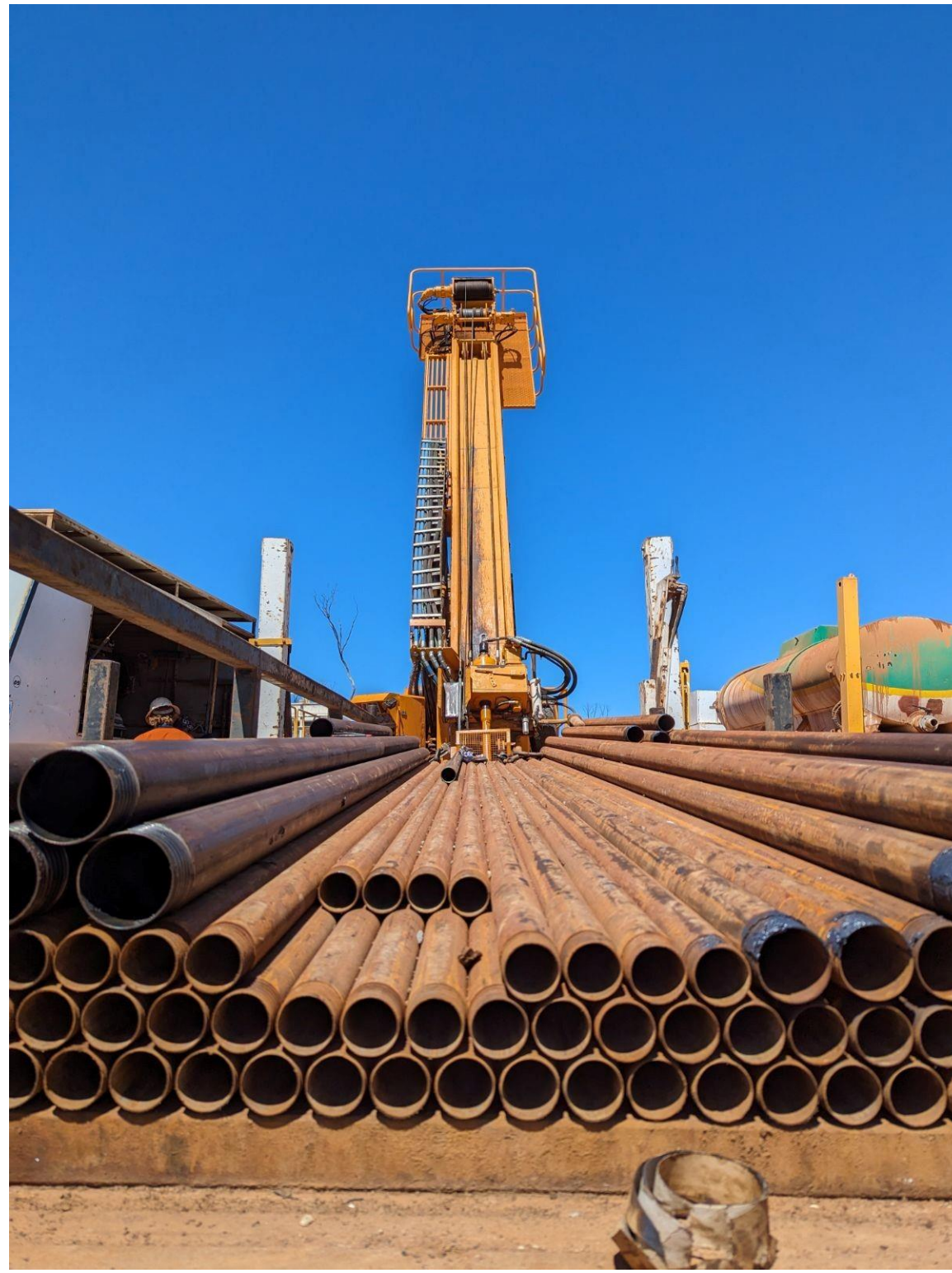
# Emerging Prospects

- **Tay Prospect** – historical drilling interrogated for pegmatite occurrences
  - Underexplored for lithium, historical gold and base metals focus
  - Approvals process underway for drilling
- **Taylor Rocks** – newly granted tenement. Adjacent to RIO tenure. Potential for greenstone rafts in wider granite boundaries
- **Other Strategic Applications** – North of Burmeister in lightly explored greenstone

Opening up 50kms of prospective Greenstone Belt



# Ongoing Exploration Delivering Results



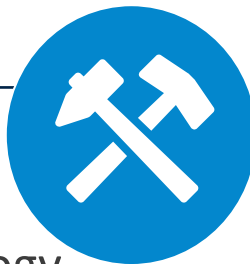
# Key Investment Drivers

## IDENTIFY



- Evaluating lithium mineralisation early
- Construct geology and mineralisation models and Exploration Target
- Conceptual pit shells early on – based on industry operating assumptions
- Start Metallurgical testwork early

## DISCOVER



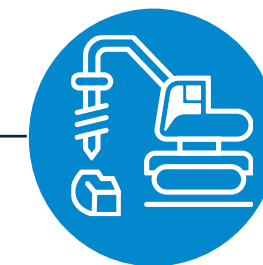
- **Burmeister deposit discovery** proves the exploration methodology
- Potential top 10 Australian stand-alone deposit on first drilling
- Provides the basis for further discoveries in the large Lake Johnston Project area, **well funded to achieve aims**

## EXPLORATION SCIENCE



- Soil sampling an effective tool at Lake Johnston
- Prioritising targets for drilling – a methodical approach that works!!
- Seismic trials over Burmeister and Jaegermeister, interpretation underway to aid with drilling targeting

## DRILLING



- Maiden drilling program at Jaegermeister underway
- Infill drilling on Burmeister deposit – progression to first resource
- Pegmatite consistency allows wide spaced drilling – effective low discovery costs

## GROWTH



- Improve data and knowledge of Burmeister deposit whilst testing further targets for more LCT Pegmatite occurrences.
- **Emerging Lithium Province – Large system developing, we have the best ground**

## EXPERIENCE



TG6 boasts extensive collective experience spanning over 60 years. Comprised of four geologists with diverse yet complementary skill sets, alongside a robust board, they lay the groundwork for discovery.

# Thank you

ASX:TG6 | [tgmetals.com.au](https://www.tgmetals.com.au)

## FOR MORE INFORMATION

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