



**TG METALS**

**LAKE JOHNSTON PROJECT  
BURMEISTER HIGH GRADE LITHIUM DEPOSIT**

**LITHIUM | NICKEL | GOLD**

**R I U S Y D N E Y R E S O U R C E S R O U N D U P**

**M A Y 2 0 2 4**

**ASX: TG6 | [tgmets.com.au](http://tgmets.com.au)**

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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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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 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. Our audience is cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof, and we do 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.

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.

# Corporate Overview

## CAPITAL STRUCTURE

Current shares on issue	71.1M
Cash (as at 31 March 2024)	\$9.1M
Market Cap (at \$0.25/share)	\$17.8M
Unlisted Options*	16.53M
Performance Rights**	5.1M
Enterprise Value	\$8.7M

^Including 17m shares escrowed

\* 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	53%
Directors & Management	5.40%

## DIRECTORS & MANAGEMENT

**Mr Richard Bevan** - Non Executive Chairman

**Mr Brett Smith** - Non Executive Director

**Ms Gloria Zhang** - Non Executive Director

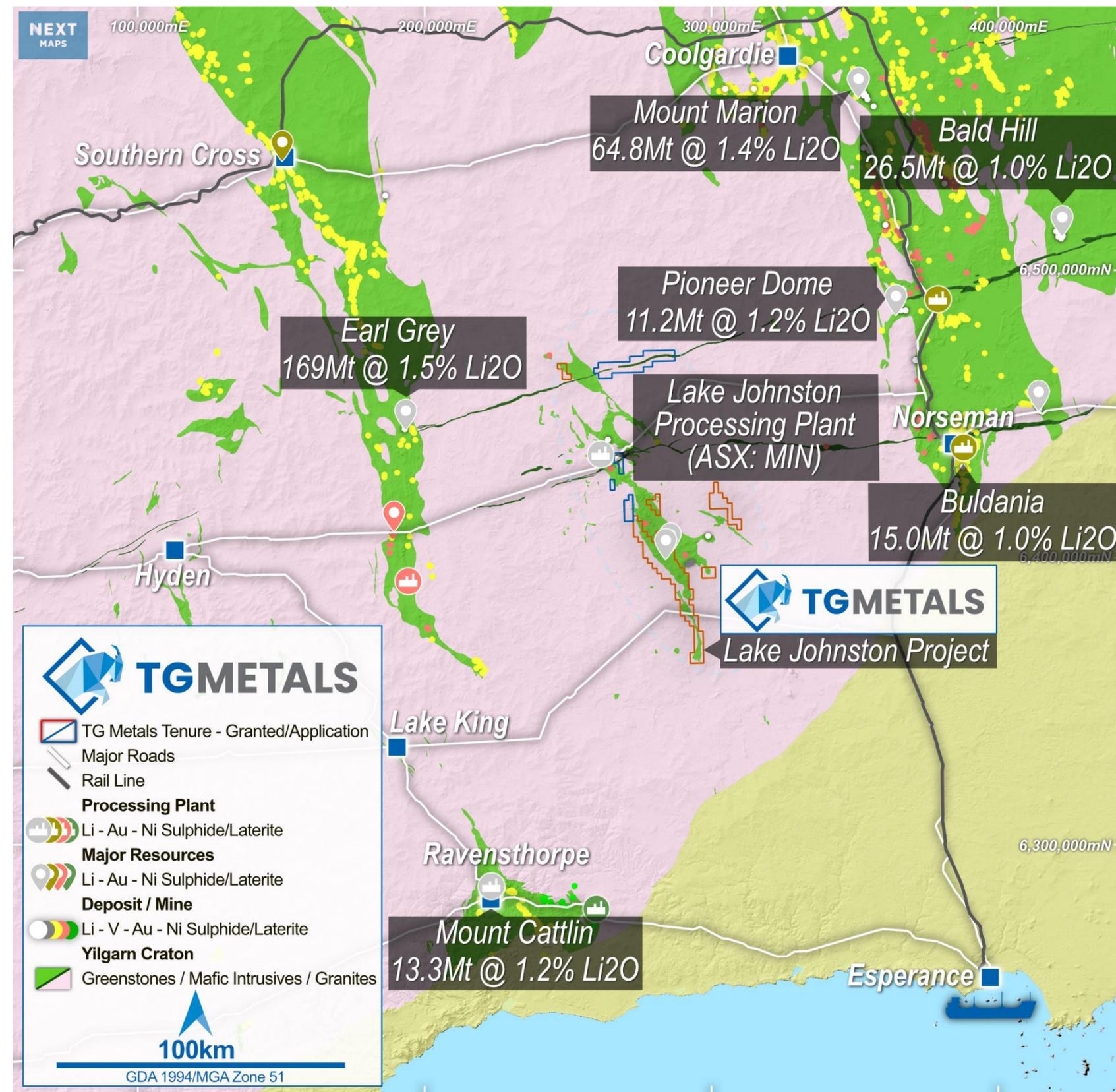
**Mr David Selfe** - Chief Executive Officer

**Ms Nicki Farley** - Company Secretary

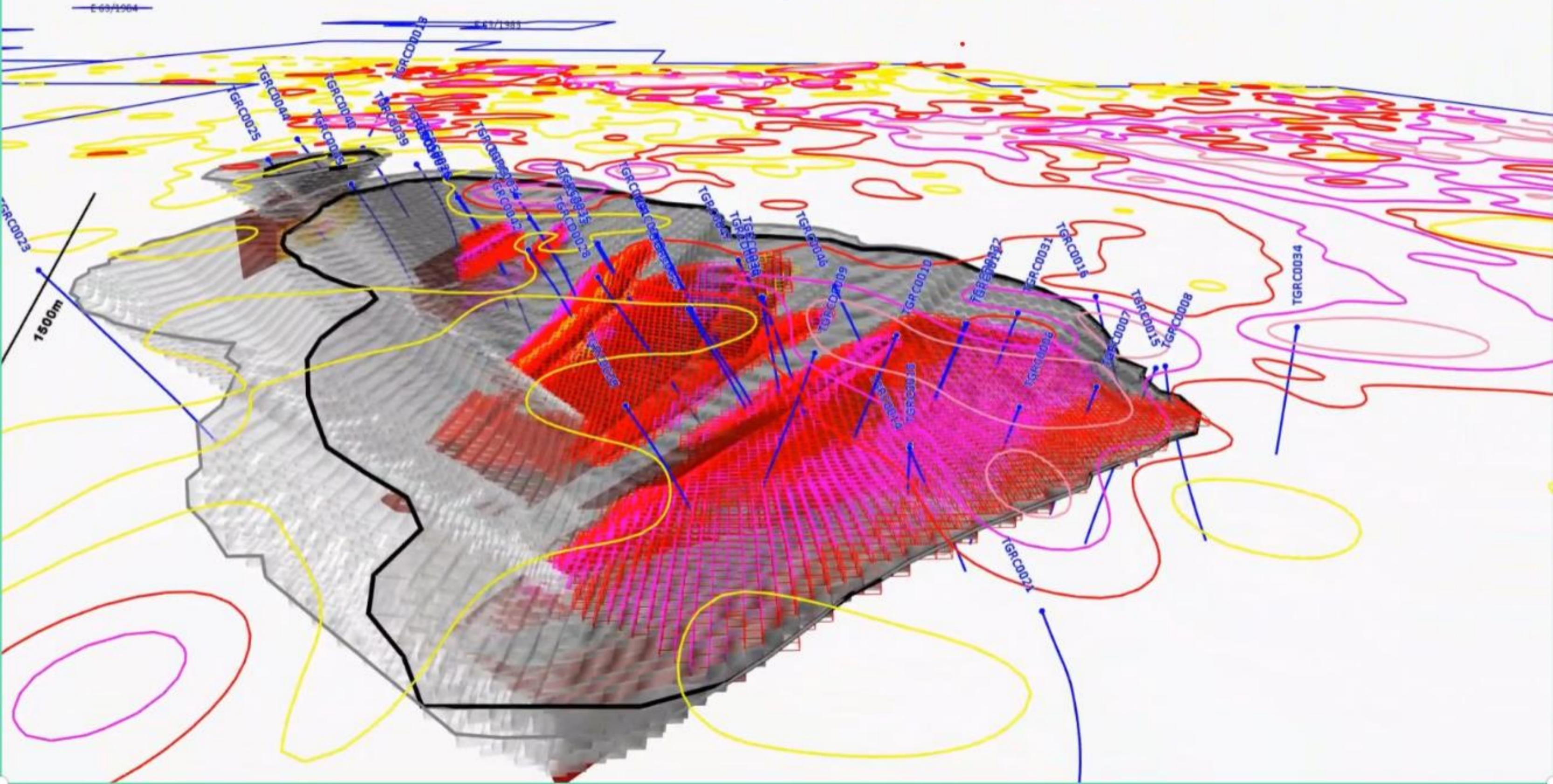
# Lake Johnston Region of Western Australia

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

**Proven lithium endowment**



# Burmeister Lithium Pegmatite Deposit



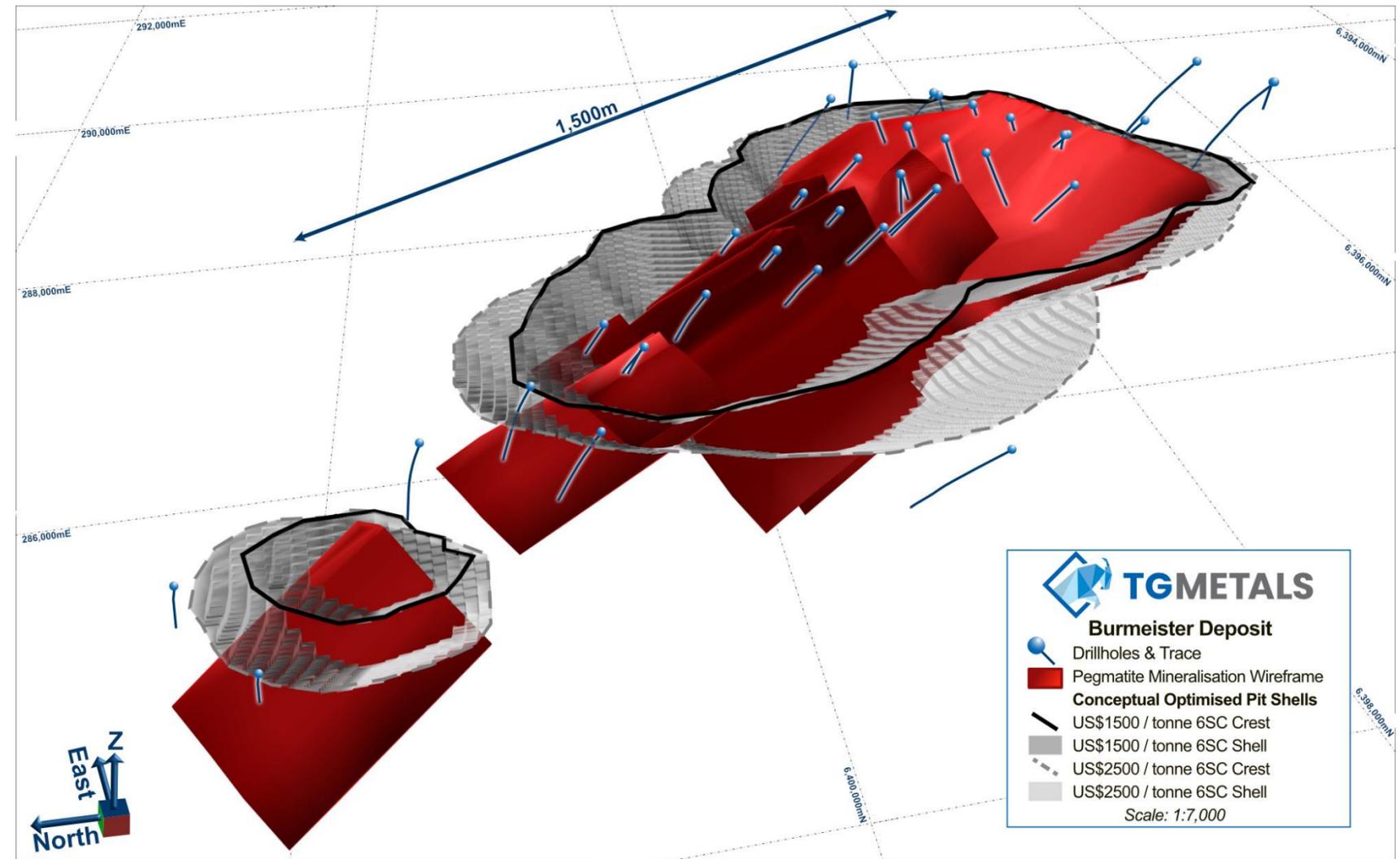
# Burmeister Deposit

- 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

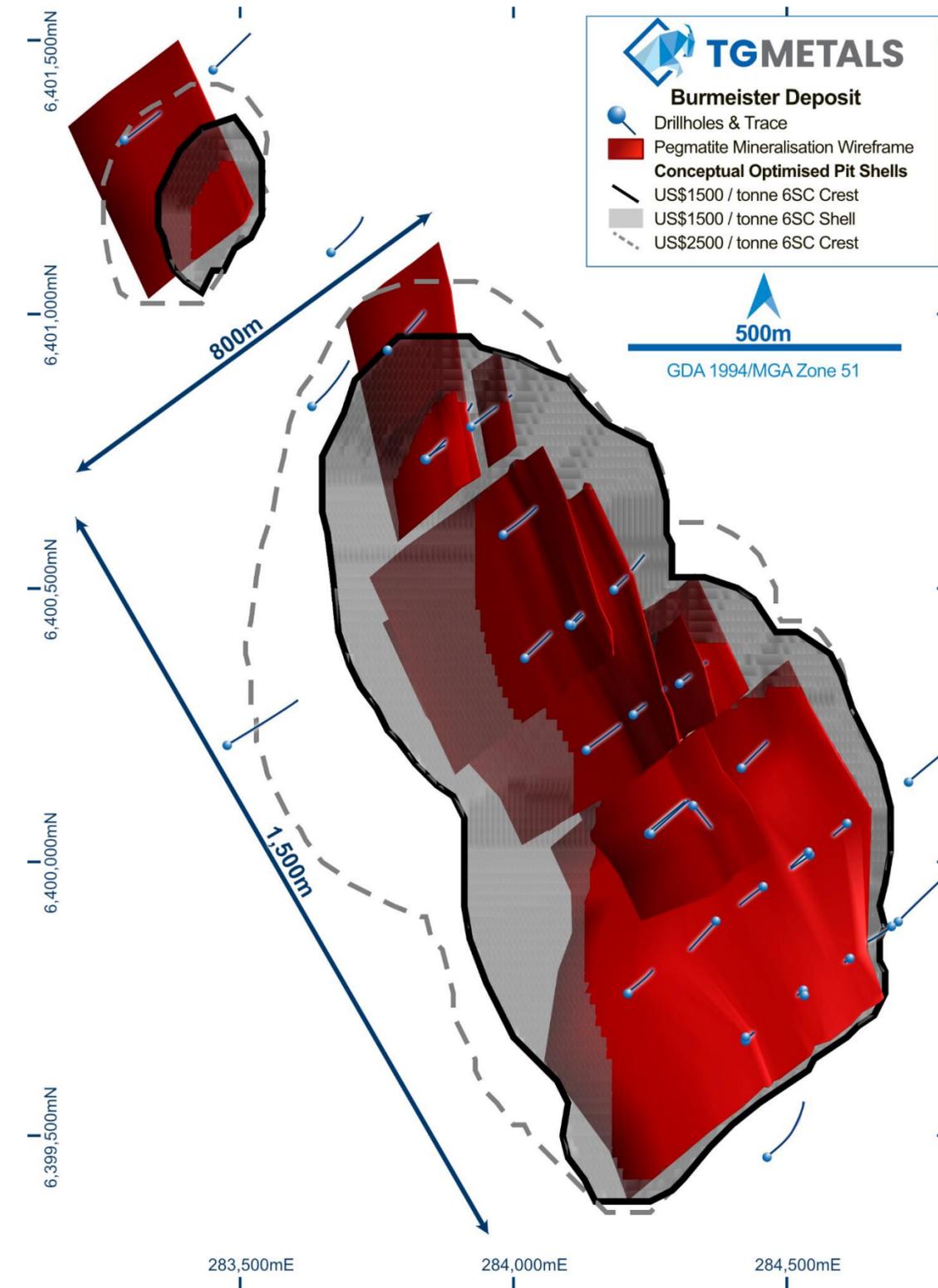


**Burmeister - A significant hard rock lithium deposit**

# Burmeister Deposit

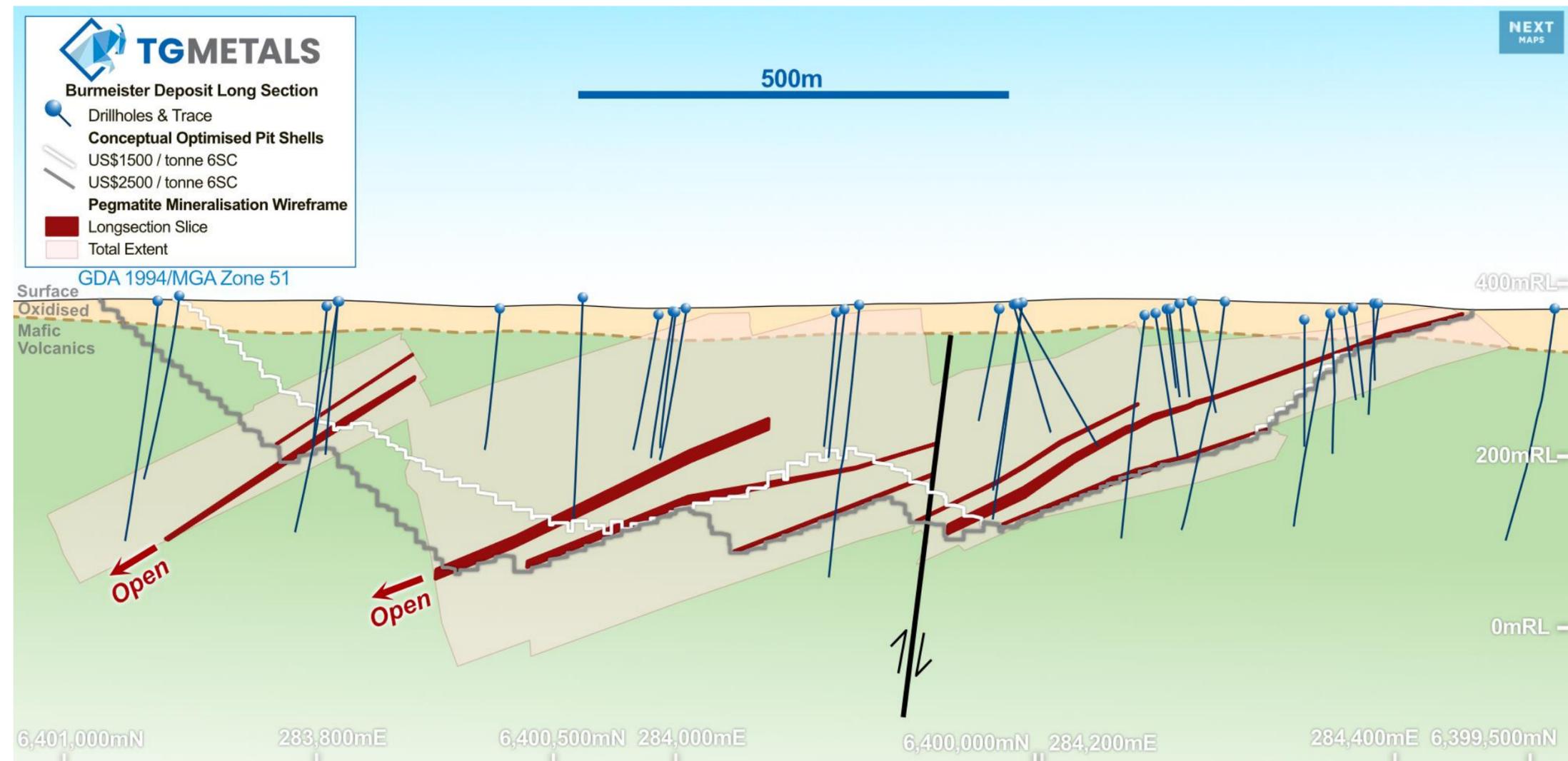
- Potential standalone size and grade
- Ranks high against comparable hard rock lithium projects\*
- Best drill intercepts from recent drilling\*\*:
  - 23.5m @ 1.52% Li<sub>2</sub>O, from 127.4m
  - 20m @ 1.38% Li<sub>2</sub>O, from 120m
  - 20m @ 1.13% Li<sub>2</sub>O, from 129m
  - 10.5m @ 1.60% Li<sub>2</sub>O, from 87.2m
  - 7.6m @ 1.37% Li<sub>2</sub>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

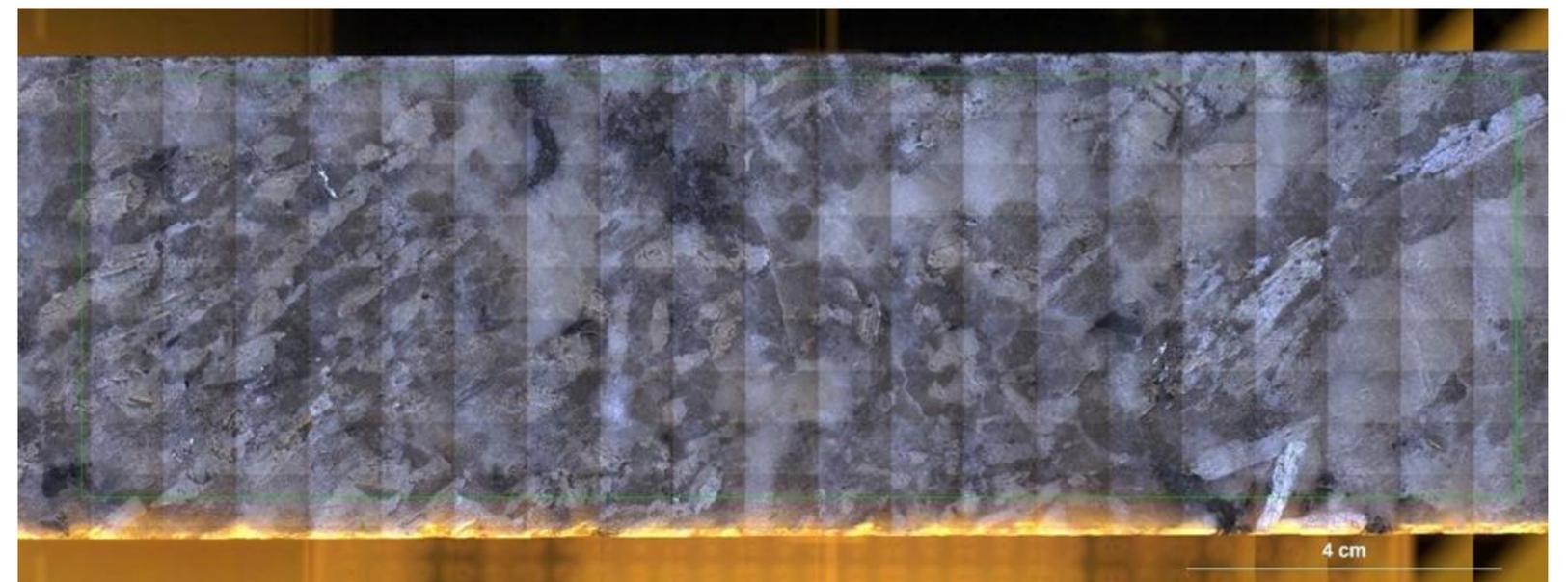
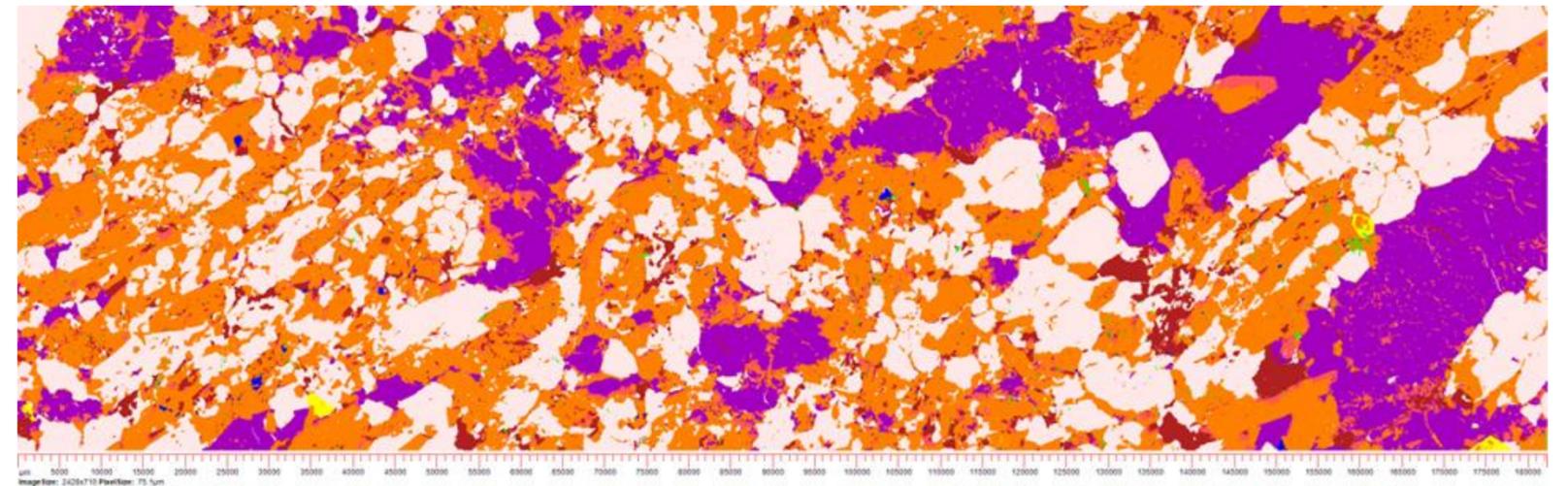


Open down dip, up dip and along strike

# 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
- 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	Brown	Tapiolite	<0.01	Olive Green
Columbite	0.27	Green	Zn-Phase	<0.01	Cyan

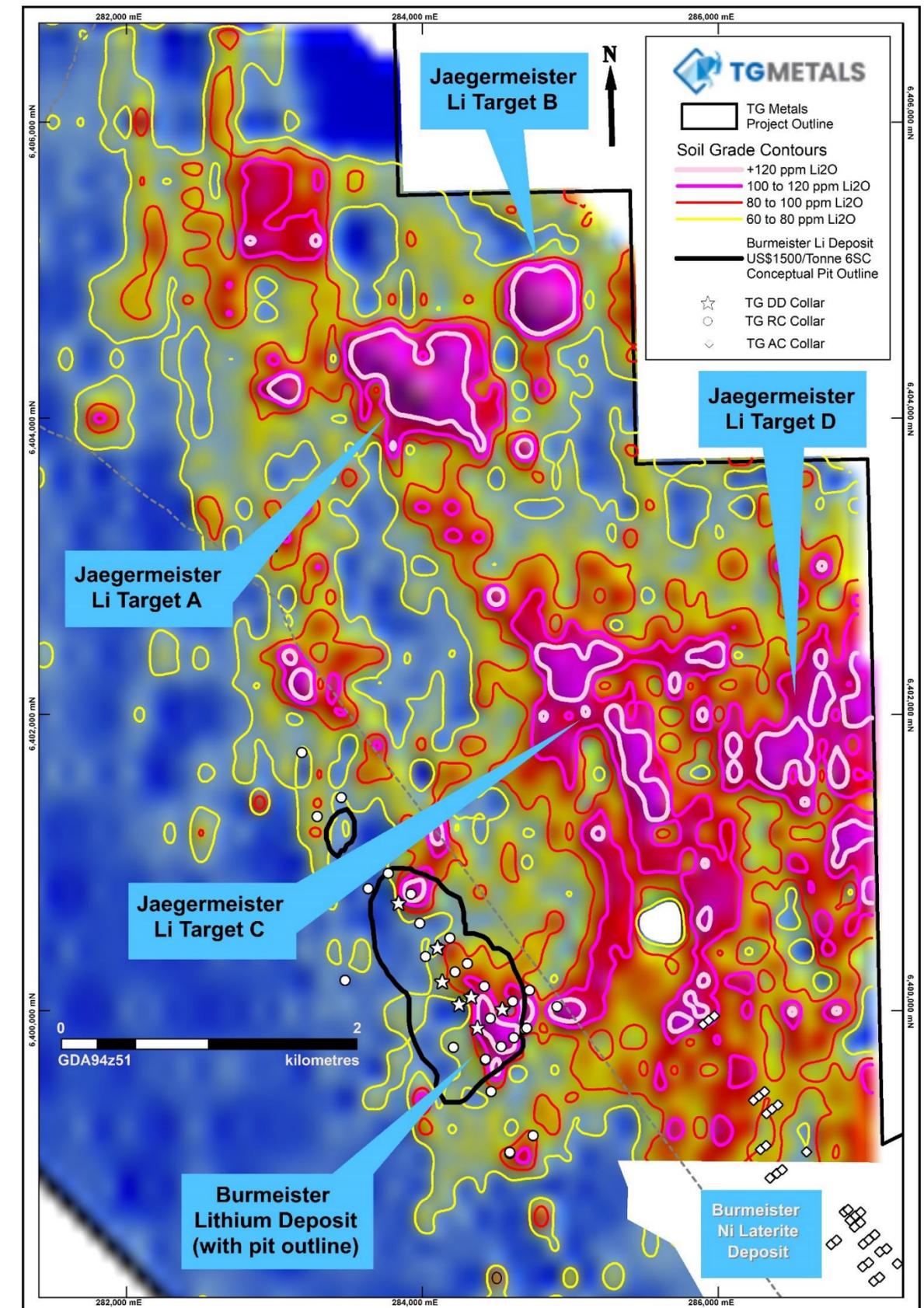


**Simple Mineralogy = Simple Metallurgy**

# Jaegermeister Prospect

- Burmeister the first of several high tenor lithium soil anomalies to be drilled
- Jaegermeister has four high priority drill targets
- All four targets are larger than Burmeister
- Drilling POW approvals pending - Aboriginal Heritage surveys completed
- Seismic field work completed - data processing underway
- Targets A and B first priority

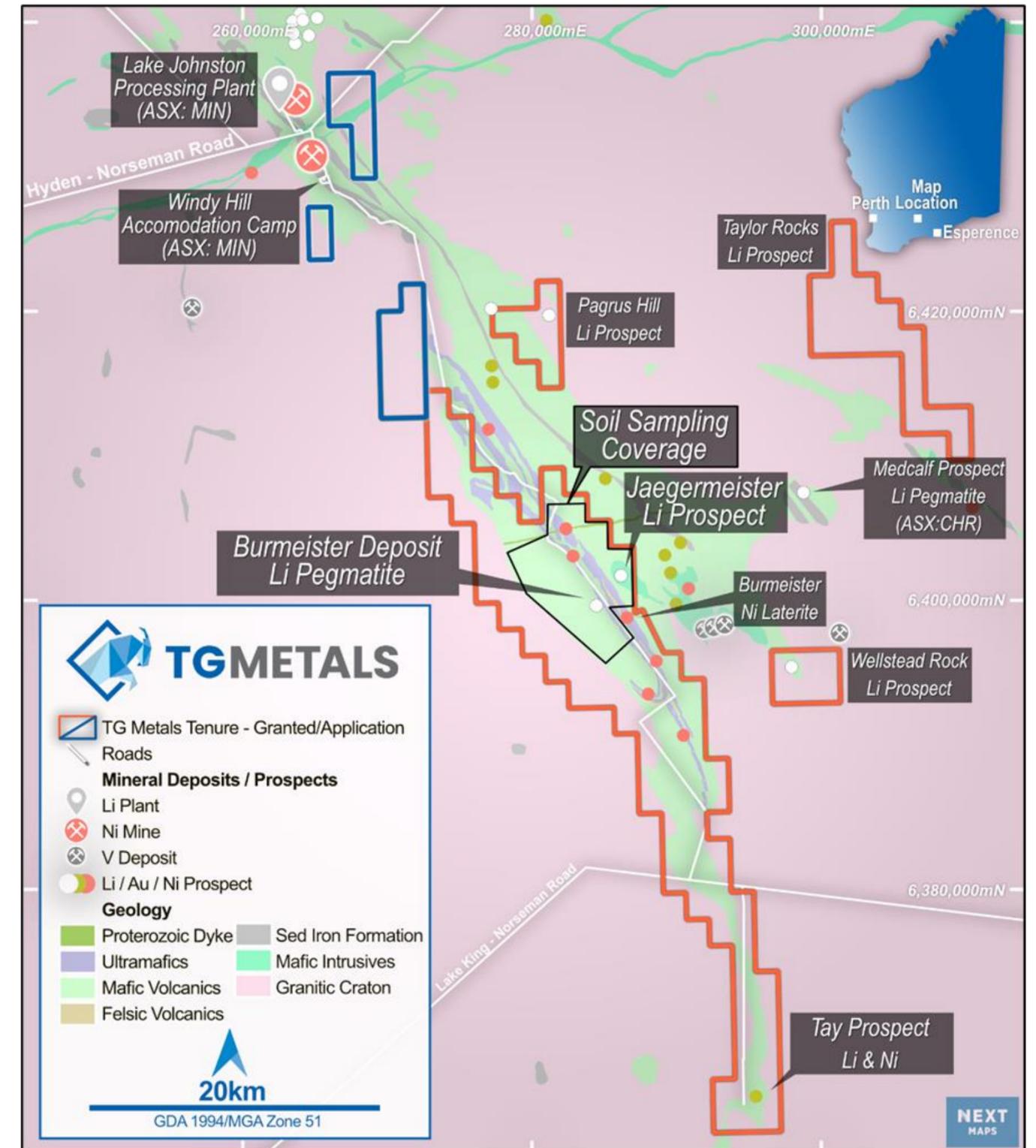
**Learnings from Burmeister guides the drilling at Jaegermeister**



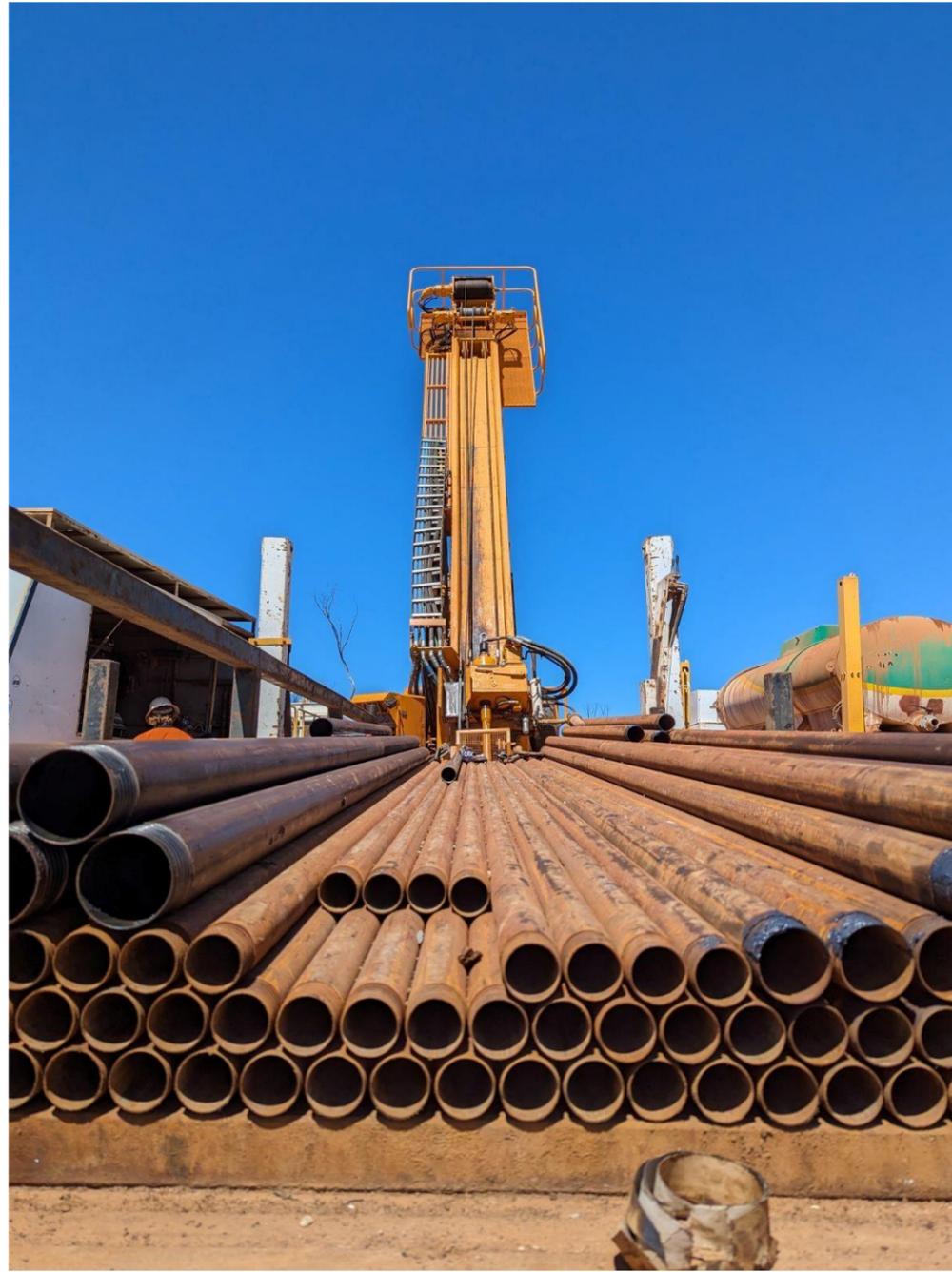
# Emerging Prospects

- **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



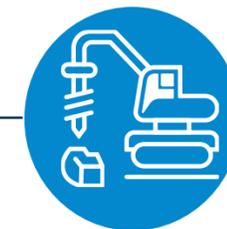
- **Burmeister deposit discovery** proves the exploration methodology
- Potential top 10 Australian stand-alone deposit
- Provides the basis for further potential discoveries in the large Lake Johnston Project area

## EXPLORATION



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

## DRILLING



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

## GROWTH



- Improve data and knowledge of Burmeister deposit whilst testing further targets for more LCT Pegmatite occurrences.
- **Emerging Lithium Province – Potential large system**

## EXPERIENCE



The senior leadership of 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 effective exploration endeavours.

# Appendix – Australian Hard Rock Lithium Deposits

Mine/Deposit	Ownership	Project Status	Resource (Mt)				Grade (%)	LCE (Mt) <sup>1</sup>	Source
			Measured	Indicated	Inferred	Total			
Greenbushes	TLEA <sup>2</sup> (IGO 51%), (Albemarle 49%)	Production	0.7	397	49	446.7	1.50%	16.6	ASX Announcement (IGO): Greenbushes CY23 Resources and Reserves, 19 February 2024
Pilgangoora	Pilbara Minerals	Production	22.1	315.2	76.6	413.8	1.15%	11.8	ASX Announcement (PLS): Substantial Increase in Mineral Resource, 7 August 2023
Mt Holland	Covalent Lithium JV (WES 50%), (SQM 50%)	Production	71	107	8	186	1.53%	7	Technical Report Summary - Mt. Holland Lithium Project, 25 April 2022
Wodgina	Mineral Resources (50%), Albemarle (50%)	Production	-	182.1	35.3	217.4	1.15%	6.2	ASX Announcement (MIN): Mineral Resources and Ore Reserve Update, 22 September 2023
Kathleen Valley	Liontown Resources	Construction	20	109	27	156	1.40%	5.4	ASX Announcement (LTR): Annual Report to shareholders, 29 September 2023
Mt Marion	Mineral Resources (50%), Ganfeng Lithium (50%)	Production	-	54.7	11.4	66.1	1.36%	2.2	ASX Announcement (MIN): Mt Marion Underground Mineral Resource update, 21 February 2024
Manna	Global Lithium	DFS in Progress	-	20.2	15.8	36	1.13%	1	ASX Announcement (GL1): Manna Lithium Project Resource Grows, 26 July 2023
Finniss	Core Lithium	Production <sup>3</sup>	7	14.8	9.2	31	1.33%	1	ASX Announcement (CXO): Site Visit Presentation, 16 November 2023
<b>Burmeister</b>	<b>TG Metals</b>	Exploration	<b>Exploration Target Only</b>			<b>20.1</b>	<b>1.19%</b>	<b>0.6</b>	TG Metals 1 May 2024 Upper Range Exploration Target
Bald Hill	Mineral Resources	Production	-	14.4	12.1	26.5	0.96%	0.6	ASX Announcement (A40): Explanatory Statement and Expert Report, 14 January 2020
Yinnetharra	Delta Lithium	Scoping Study in Progress	-	6.7	19	25.7	1.00%	0.6	ASX Announcement (DLI): RIU Explorers Presentation, 14 February 2024
Marble Bar	Global Lithium	Exploration	-	3.8	14.2	18	1.00%	0.4	ASX Announcement (GL1): Annual Report to shareholders, 29 September 2023
Mt Ida	Delta Lithium	Scoping Study in Progress	-	7.8	6.8	14.6	1.20%	0.4	ASX Announcement (DLI): Mt Ida Lithium Mineral Resource Estimate Update, 3 October 2023
Mt Cattlin	Arcadium Lithium	Production	0.2	10.1	1.8	12.1	1.30%	0.4	ASX Announcement (AKE): Allkem confirms material growth profile underpinned by 40 Mt, 25 September 2023
Buldanina	Liontown Resources	Exploration	-	9.1	5.9	15	1.00%	0.4	ASX Announcement (LTR): Annual Report to shareholders, 29 September 2023
Pioneer Dome	Develop Global	Scoping Study Complete	-	8.5	2.6	11.2	1.16%	0.3	ASX Announcement (ESS): Development Update - Pioneer Dome Lithium Project, 20 October 2023

Modified for Burmeister upper range Exploration Target after Liontown Resources Limited BMO Conference Presentation February 2024

Source: Company filings as at 23 February 2024.

<sup>1</sup>LCE equivalent based on conversion factor of 2.473

<sup>2</sup>Tianqi Lithium Energy Australia (49% IGO / 51% Tianqi Lithium)

<sup>3</sup>Mining operations suspended

# Thank you

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## FOR MORE INFORMATION

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