Liontown



A FUTURE AUSTRALIAN LITHIUM PRODUCER

MAY 2019 ASX: LTR

Important Information

Forward Looking Statements

This Presentation may include statements that could be deemed "forward-looking statements". Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those expected in the forward-looking statements or not take place at all.

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Competent Person Statement

The Information in this report that relates to the Scoping Study for the Kathleen Valley Project is extracted from the ASX announcement "Kathleen Valley Scoping Study confirms potential for robust new WA lithium mine development" released on the 29th January 2019 which is available on www.ltresources.com.au.

The Information in this report that relates to Mineral Resources for the Kathleen Valley Project is extracted from the ASX announcement "Maiden 21 million tonne Lithium-Tantalum Mineral Resource sets strong growth foundation for Liontown at Kathleen Valley" released on the 4th September 2018 which is available on www.ltresources.com.au.



The Information in this report that relates to Metallurgy for the Kathleen Valley Project is extracted from the ASX announcement "Highly encouraging results from initial metallurgical test work at the Kathleen Valley Lithium-Tantalum Project, WA" released on the 12th November 2018 which is available on www.ltresources.com.au.

The Information in this report that relates to Exploration Targets is is based on and fairly represents information and supporting documentation prepared by Mr David Richards, who is a Competent Person and a member of the Australasian Institute of Geoscientists (AIG). Mr Richards is a full-time employee of the company. Mr Richards has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activities being undertaken 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 Richards consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The Information in this report that relates to Exploration Results for the Kathleen Valley Project is extracted from the ASX announcements "Latest drilling extends thick, high-grade zone at Kathleen Valley further north as strong assay results continue" and "Spectacular intercept of 90m @ 1.3% Li₂O at Kathleen Valley" released on the 9th May 2019 and 20th May 2019 respectively which are available on www.ltresources.com.au.

The Information in this presentation that relates to the Exploration Results for the Buldania Project is extracted from the ASX announcements entitled "More strong assays confirm significant lithium discovery at Buldania Project in WA", "Liontown confirms second significant lithium discovery in WA with new thick, high-grade hits at Buldania", "Outstanding new drilling results continue to expand lithium mineralisation at Buldania", "Liontown further expands prospective lithium footprint at Buldania in WA's South-Eastern Goldfields", "Latest assays confirm lithium mineralisation over >1.3km strike length at the Buldania Lithium Project in WA" and Liontown expands lithium footprint at Buldania in WA's South-Eastern Goldfields" released on the 26th March 2018, 19th September 2018, 1st November 2018, 13th November 2018, 20th November 2018 and 14th March 2019 respectively which are available on www.ltresources.com.au.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

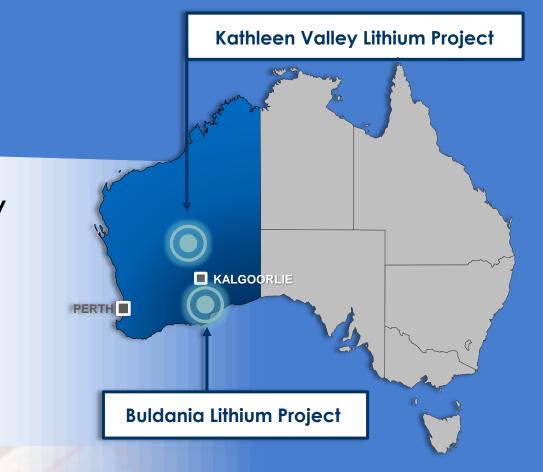
Kathleen Valley Project: Progressing towards a new WA lithium mine

Buldania Project:

Advancing a second lithium discovery to a maiden resource estimate

Located in established, well serviced mining regions and backed by strong state government support for a WA battery metals industry

Projects are either wholly-owned or Liontown has 100% of the relevant mineral rights







KATHLEEN VALLEY LITHIUM PROJECT

Grade, Location, Infrastructure and Growth

MAIDEN RESOURCE
21.2Mt @ 1.4% Li₂O
and 170ppm Ta₂O₅





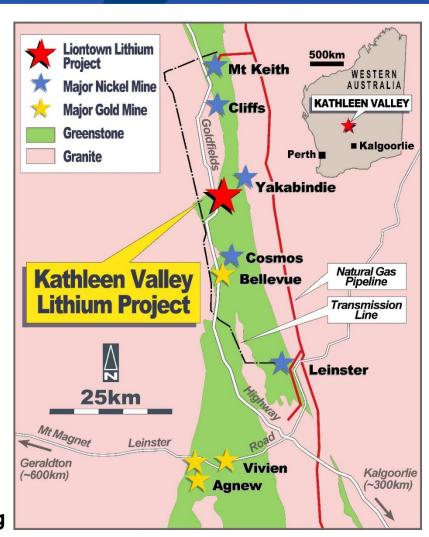
Updated MRE due late June 2019

SCOPING STUDY on maiden MRE confirms potential for commercially robust mine

Conventional open pit mining and processing

Conceptual open pits largely constrained by limit of data

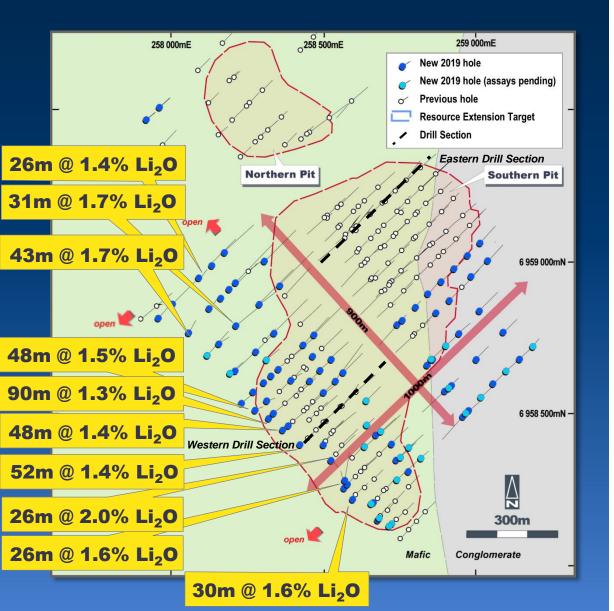
Preliminary test work confirms saleable spodumene (Li₂O) concentrate – feasibility-level test work ongoing



*The potential grade and tonnage of the increased Exploration Target referred to above is conceptual in nature and there has been insufficient exploration to estimate an Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource. See Appendix for full explanation of assumptions used to estimate ranges.

Resource Expansion Drilling

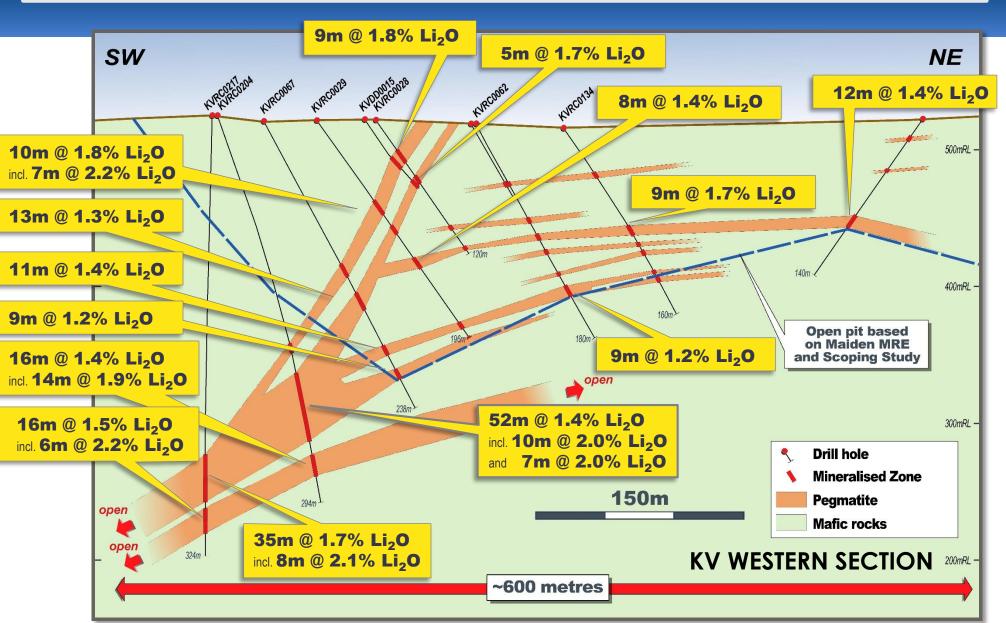
Unlocking Further Value



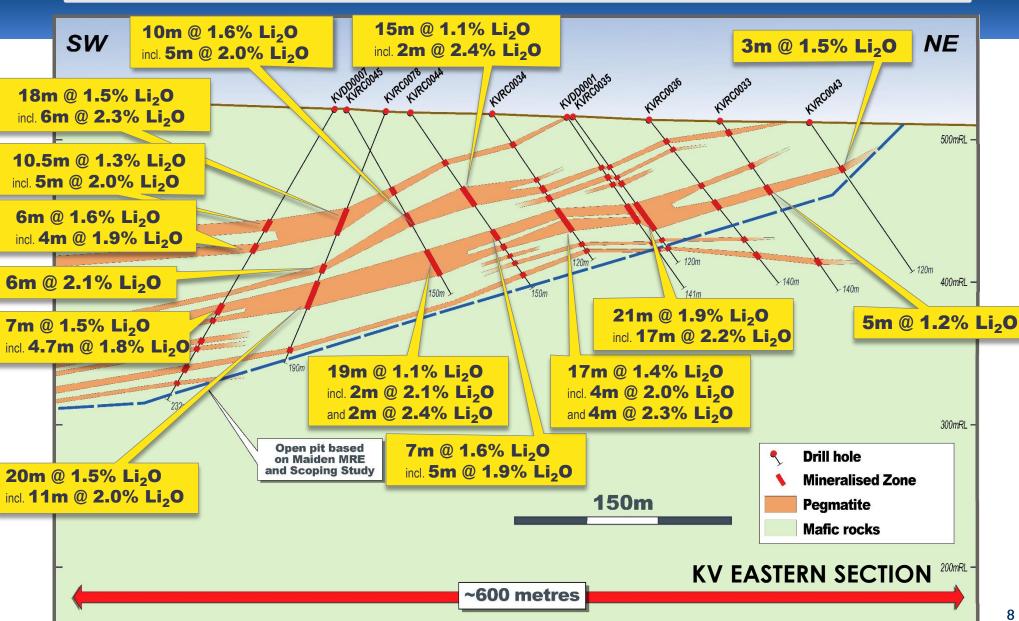
RESOURCE GROWTH

- ~23,000m RC drill program due for completion late-May 2019
- Thick (>45m), high grade, "feeder" zone discovered by latest drilling. New intersections include:
 - ✓ 90m @ 1.3% Li₂O from 209m inc.
 8m @ 2.0% Li₂O from 211m
 6m @ 2.2% Li₂O from 254m
 11m @ 1.9% Li₂O from 279m
 - ✓ 52m @ 1.4% Li₂O from 198m inc.
 10m @ 2.0% Li₂O from 202m
 - ✓ 48m @ 1.5% Li₂O from 277m inc.
 22m @ 2.1% Li₂O from 289m
 - ✓ 43m @ 1.7% Li₂O from 240m inc.
 10m @ 2.0% Li₂O from 263m
- Mineralisation extended for >300m along strike and >150m down dip of conceptual open pit indicated by Scoping Study.

Latest drilling extends mineralisation down dip and along strike

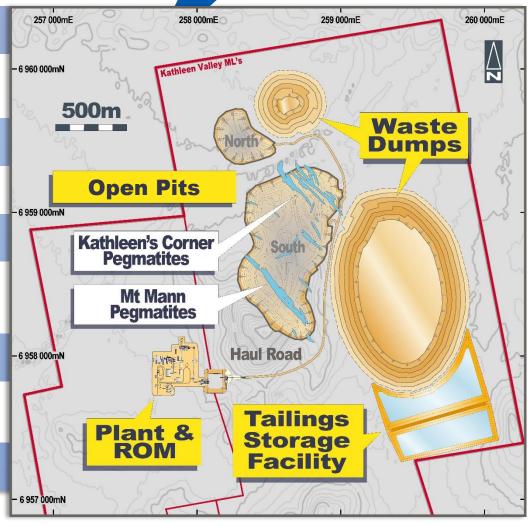


Building on previous results included in 2018 MRE



Scoping Study on maiden MRE supports potential to develop a standalone Lithium Mining and Processing Operation

BASE CASE	2Mtpa (Li & Ta)
NPV _(8%, real, post tax)	A\$421M (Range of A\$316 to A\$526M)
IRR	38%
PAYBACK	<3 years
MINE LIFE	9 years
AVERAGE LOM APEX	~A\$428/t conc. (net of Ta credits)
ANNUAL PRODUCTION	~360kt concentrate
LOM SPODUMENE PRICE	A\$900 (US\$650/t) FOB
CAPEX	~A\$232M

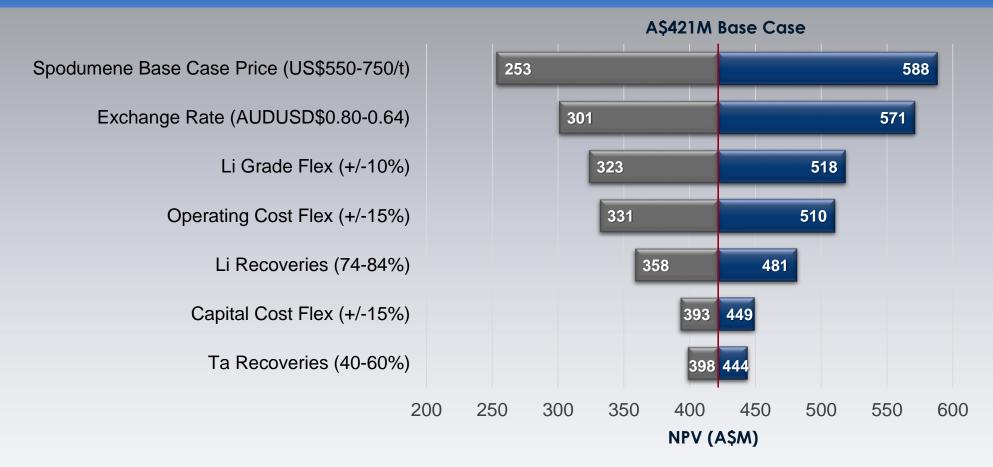


Financial Sensitivity



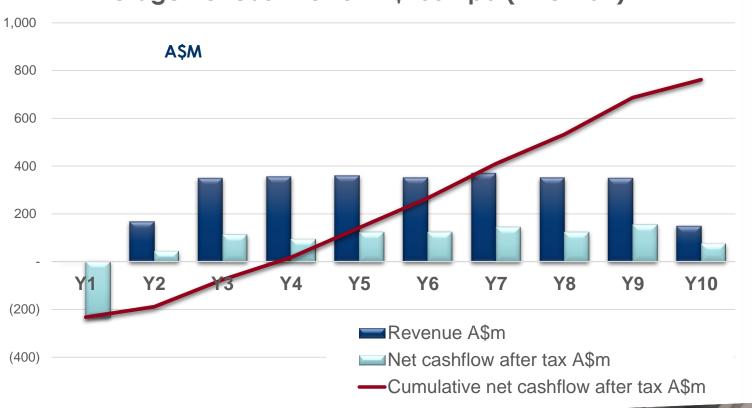
Robust Project

Kathleen Valley Project - NPV Sensitivity Analysis (A\$M)



Cash Flow Profile = <3 Year Payback Period





Scoping study suggests Life of Mine free cash flow of ~A\$762M

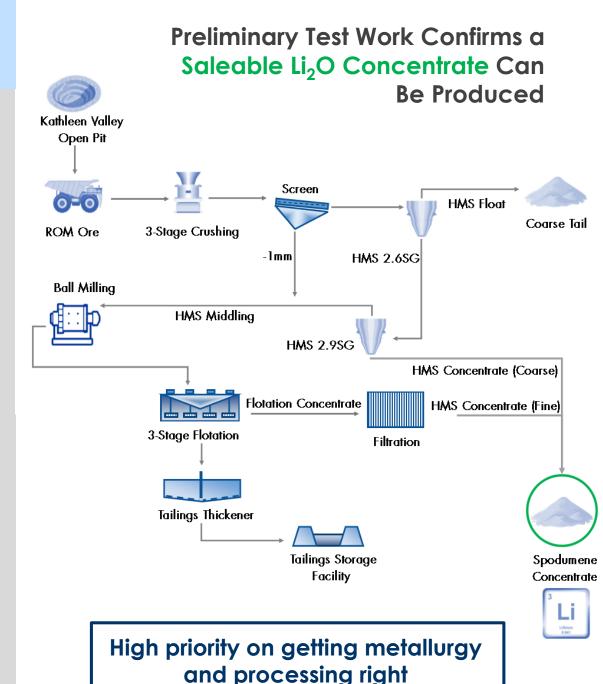
METALLURGY AND FLOWSHEET

KEY OUTCOMES

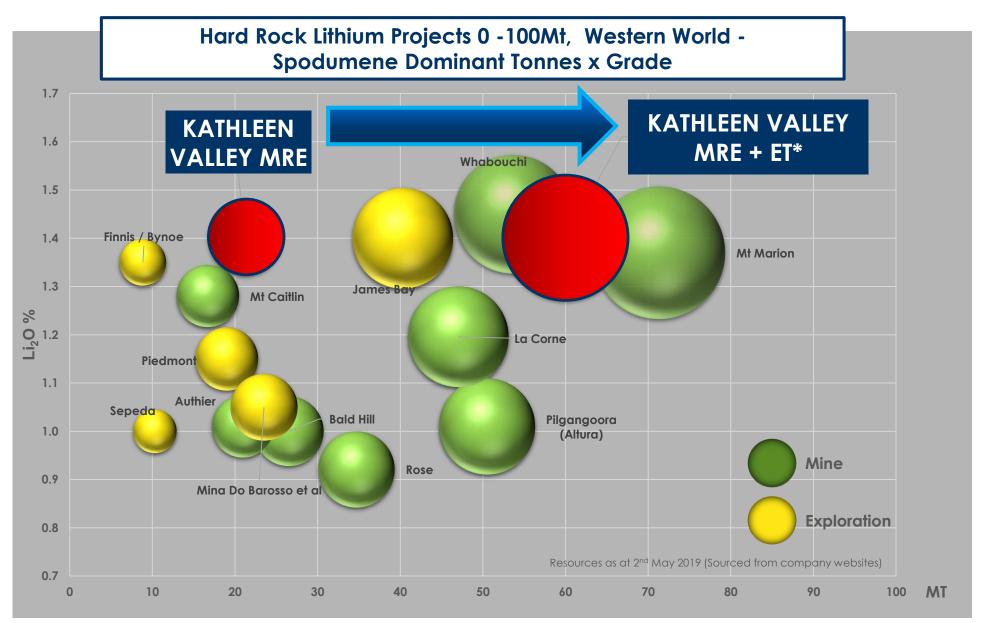
- 5.9% Li₂O from DMS conc.
- 36% mass rejection from 2-stage DMS
- 5.5% Li₂O from flotation
- Low iron (<0.5% Fe₂O₃)
- Predicted 79% Li₂O recovery
- Preliminary Ta₂O₅ conc.

FEASIBILITY-LEVEL TEST WORK IN PROGRESS ON A FURTHER 4 TONNES OF SAMPLE TO:

- Refine process parameters to produce a 6% Li₂O concentrate at optimal recovery
- Provide samples for potential strategic partners
- Confirm tantalum recovery

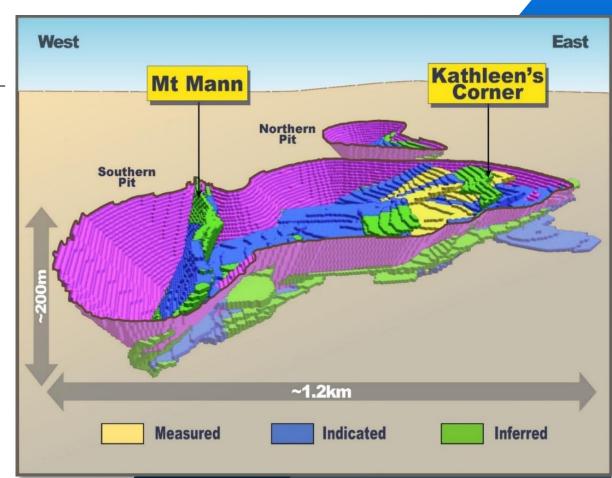


High Grade Compared With Most Peers - Plus Potential to Grow



KATHLEEN VALLEY INVESTMENT CASE

- Updated MRE due June 2019
- Strong focus on optimising recoveries further test work in progress
- Robust, high grade maiden resource
- Further feasibility studies ongoing
- First world location and expertise
- Active, well serviced mining region
- Conventional mining and processing



Experienced, well-credentialed management team

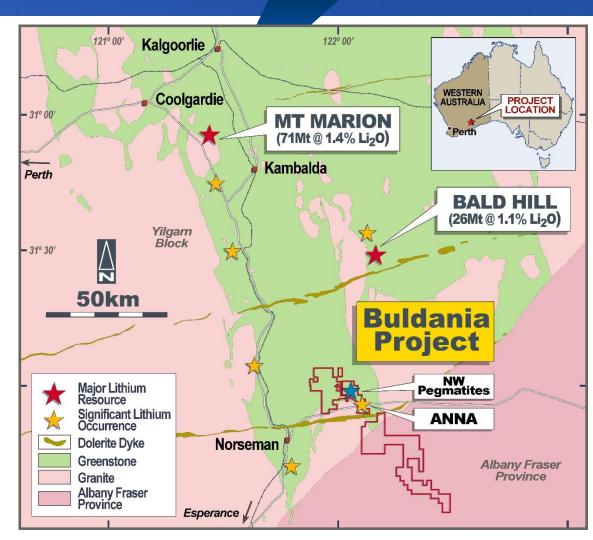
The only non-committed spodumene resource in Australia



BULDANIA LITHIUM PROJECT

Buldania is Located in a Lithium-Rich Mineral Province

- Outcropping, fresh, spodumenerelated mineralisation
- Mineralisation at Anna extended to the SE under shallow cover – strike length >1.3km and open
- Similar geology to the Mt Marion and Bald Hill lithium deposits (71Mt and 26Mt respectively)
- Good infrastructure located on Eyre Highway ~30km east of Kalgoorlie-Esperance railway
- Liontown has 100% of the lithium and related metal rights*
- Part of larger, 600km² strategic land holding

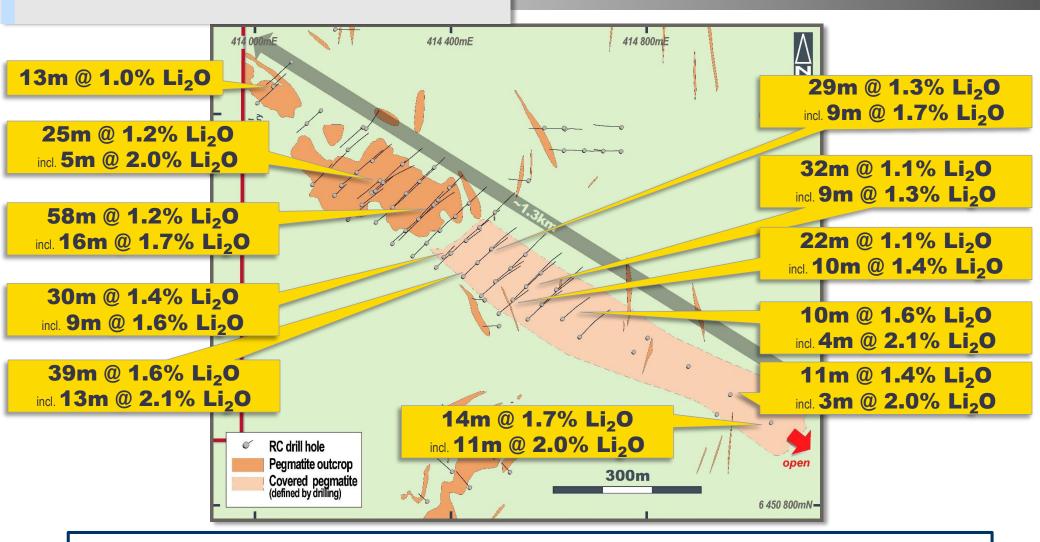


Total land position ~600km²

Significant lithium discovery

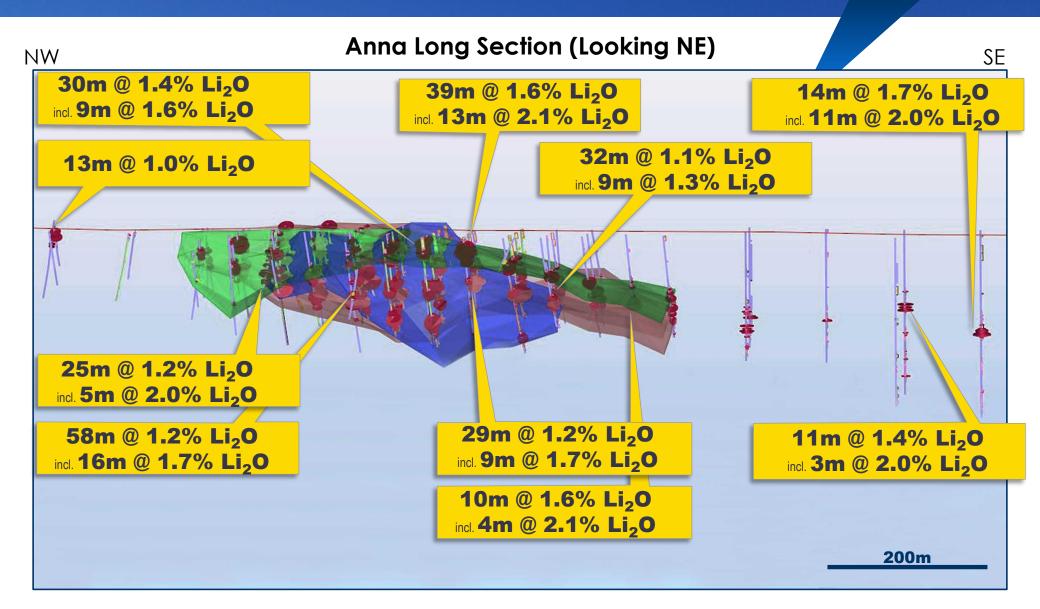
*Secured via an agreement with Westgold Resources which holds royalty rights Large Lithium (Spodumene)
Mineralised Pegmatite
Defined at the Anna Prospect

Mineralisation fresh from surface and open along strike and at depth



Further definition drilling planned as precursor to maiden Mineral Resource estimate

Drilling Extends Mineralisation At Anna To South East – System Remains Open



Large (~600km²) Land Position Highly Prospective For Lithium

No lithium exploration prior to Liontown

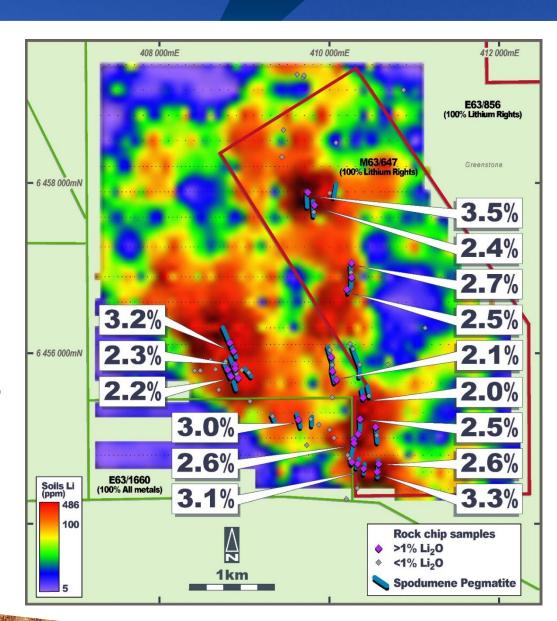
~20km strike length of prospective stratigraphy

Multiple spodumene-bearing pegmatites up to 800m long and 20m wide mapped

Rock chip assay values up to 3.5% Li₂O

Initial drill testing scheduled for Q2 2019

Multiple undrilled spodumene pegmatites



Catalysts for Continued Re-Rating

Kathleen Valley Project

- Continuing drill results
- Resource Upgrade: Q2 2019
- Metallurgical studies focused on optimising grade and recoveries
- PFS due for completion Q4 2019



Buldania Project

- Maiden Mineral Resource: Q3 2019
- Regional exploration and discovery drilling
- Preliminary metallurgical test work ongoing
- Progressing towards Scoping Study

...the quality of the exploration results from LTR's dual drilling programs at its Kathleen Valley and Buldania lithium projects in Western Australia, cannot be questioned. LTR's management approach has typically been lowkey, preferring substance over hype, which adds further credibility to its exploration successes and resource growth." Mine Life Bulletin, Gavin Wendt

A Proven, Experienced Board



+35 years

experience

 Discovered multimillion ounce Vera Nancy Gold Deposits



+40 years

experience

Chairman

 Executive Chairman Chalice Gold Mines



Non-Executive Director

- +40 years experience
- Founder and CEO of Equinox Minerals



Non-Executive Director



 Former Senior Partner at Deloittes



Non-Executive Director

- +40 years experience
- Director of Lycopodium Minerals

Corporate Snapshot

ASX CODE	LTR
SHARES ON ISSUE	~1,528M
MARKET CAPITALISATION	\$122M (AT ~8.0CPS)
MAJOR SHAREHOLDER	TIM GOYDER ~18%
TOP 20 SHAREHOLDERS	~46%
CASH	~A\$5M





APPENDIX

Kathleen Valley Project Additional Information



Scoping Study – Key Parameters And Assumptions



Parameter		
General and Economic		
Discount rate (real, post tax)	8%	
Spodumene concentrate price	US\$650 per tonne FOB	
Tantalum concentrate price (contained Ta ₂ O ₅)	US\$71 per pound FOB	
Exchange rate – AUD/USD	0.72	
Mining and Production		
Average Life-of-Mine strip ratio	8.24:1	
Processing rate	2Mtpa	
Life-of-Mine Production Target	15.7Mt ore	
Average Li ₂ O grade (diluted)	1.26%	
Average Ta_2O_5 grade (diluted)	154ppm	
Li ₂ O recoveries	79%	
Ta ₂ O ₅ recoveries	50%	
Spodumene concentrate grade	5.6%	
Tantalite concentrate grade	30%	
Moisture content of concentrate	13%	

Parameter			
Cost Assumptions			
LOM average open pit mining costs (\$/t ore mined)	A\$37.72		
LOM average processing cost (\$/t ore milled)	A\$19.32		
Logistics and transport (\$/t concentrate)	A\$75.65		
General and admin (\$/t ore milled)	A\$6.01		
Western Australia State royalty	5%		
Other royalties	3% gross sales and \$0.5/t ore mined		
Corporate tax rate 30%			
Estimated opening tax losses available	A\$25M		



Scoping Study – LoM Financials And Capital Expenditure



Life of Mine Financials

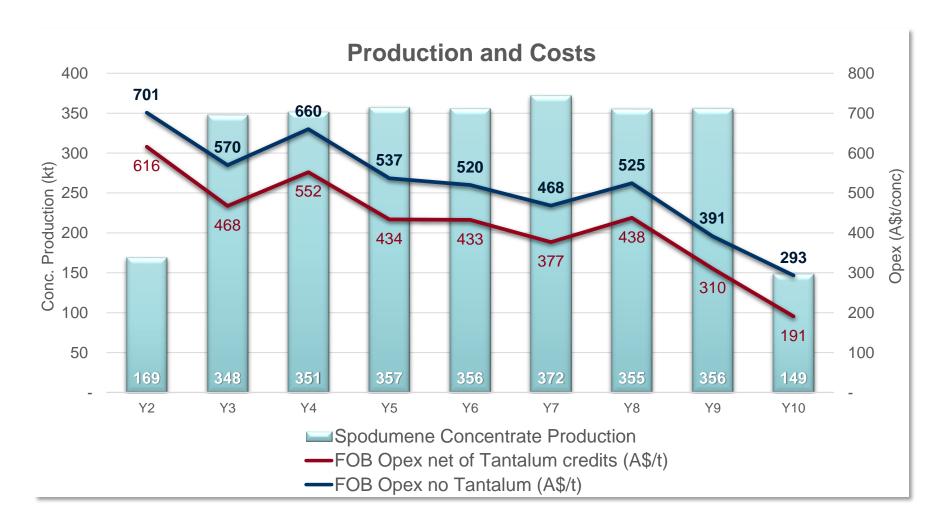
	A\$M
Revenues	2,802
Operating costs	(1,236)
Capital expenditure - pre-production - sustaining	(232) (25)
Royalties	(232)
Corporate tax	(315)
Life of Mine Project Free Cash flow	762

Capital Costs Summary

Main Area	Capital (A\$M)
Treatment Plant	82.8
Reagents & Plant Services	9.5
Infrastructure – general	39.9
Mining	6.1
Contractor and Construction Indirects	18.6
Subtotal	156.9
Management Costs	20.6
Owners Costs	14.4
Subtotal	35.0
Contingency	40.3
Project Total	232.2

Scoping Study – Production And Costs

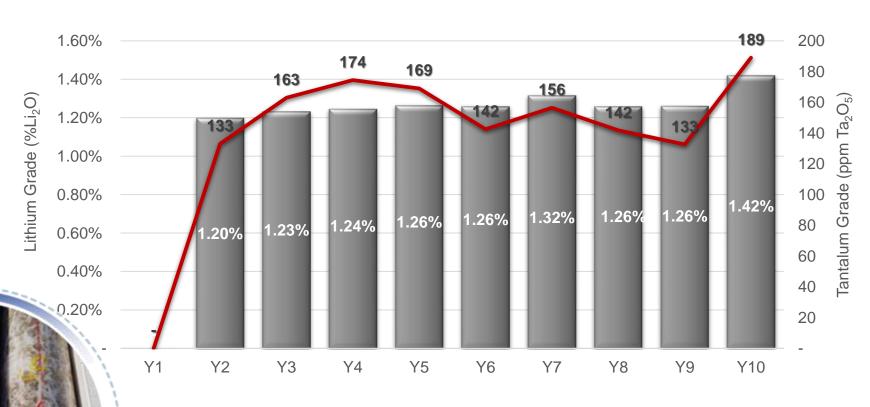




Scoping Study – Grade Profiles



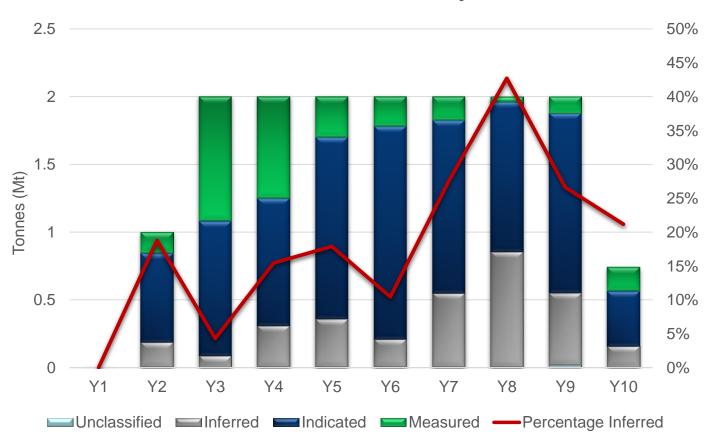
LOM Lithium and Tantalum Grade Profile



Scoping Study – Production Classification



Production Classification by Year



Exploration Target Parameters and Assumptions



Parameter	Mt Mann	Kathleen's Corner (NW)	Kathleen's Corner (SE)	Rationale	
Combined strike length of pegmatites	800m	400	200	Based on recent and	
Average cumulative true width	11 – 15m	35 - 40m	5 - 10m	previous drilling and extrapolation of block model used in preparation of maiden Mineral Resource Estimate (released 4 th September 2018)	
Down Dip extent	250 – 300m	300 – 400m	500 - 600m		
Specific gravity	2.75	2.75	2.75	Measured from diamond core drilling	
Total tonnage	6 – 10Mt	11.6 – 17.6Mt	1.4 – 3.3Mt	Strike x width x dip x S.G	
Average grade	1.2 – 1.5%	1.2 – 1.5%	1.2 – 1.5%	Based on maiden Mineral Resource Estimate	















