Liontown

FEBRUARY 2019 ASX: LTR



Developing Two Quality Hard Rock Lithium Deposits in Western Australia

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 extracted from the ASX announcement "Major resource expansion drilling program commences at Kathleen Valley Lithium Project, WA" released on the 29th January 2019 which is 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" and "Latest assays confirm lithium mineralisation over >1.3km strike length at the Buldania Lithium Project in WA" released on the 26th March 2018, 19th September 2018, 1st November 2018, 1st November 2018 and 20th November 2018 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.

Next Generation Lithium Producer

Kathleen Valley Lithium Project Projects strategically located in the lithium-rich Eastern Goldfields region of Western Maiden Mineral Resource: Australia **2**1.2Mt @ 1.4% Li₂O and 170ppm Ta₂O₅ 75% Measured and Indicated Located on granted mining leases Close to established infrastructure **Buldania Lithium Project** Scoping study confirms potential Liontown's second lithium discovery: for a commercially robust mining operation up to 58m @ 1.2% Li₂O in drilling Resource expansion drilling in Mineralisation confirmed over a KALGOORLIE progress aimed at significantly length of >1.3km and remains open extending mine life PERTH Further resource definition drilling to Comprehensive test work commence Q1 2019 ongoing to optimise grade and recoveries Maiden resource estimate Q2/Q3 2019 Feasibility studies scheduled for completion by Q1 2020









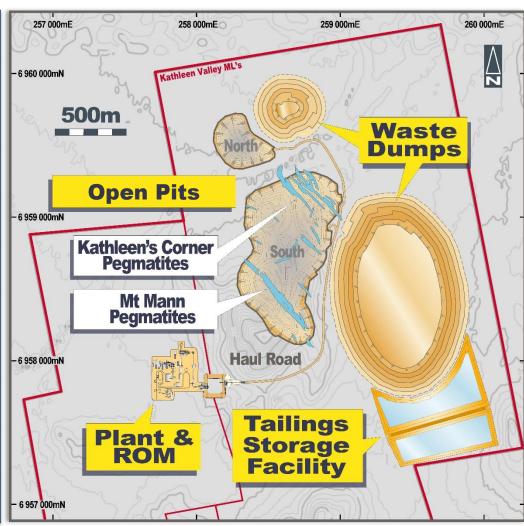




KATHLEEN VALLEY LITHIUM PROJECT

Scoping Study Supports Potential To Develop A Standalone Lithium Mining and Processing Operation

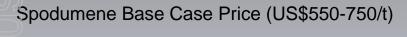
Base Case	2Mtpa (Li & Ta)
NPV _(8%, real, post tax)	A\$421M (Range of A\$316 to A\$526M)
IRR	38%
Payback	<3 years
Mine Life	9 years
Average LOM Opex	~A\$428/t conc. (net of Ta credits)
Annual Production	~360kt concentrate
LOM Spodumene Price	A\$900 (US\$650/t) FOB
Сарех	~A\$232M



Financial Sensitivity – Robust Project



200



Exchange Rate (AUDUSD\$0.80-0.64)

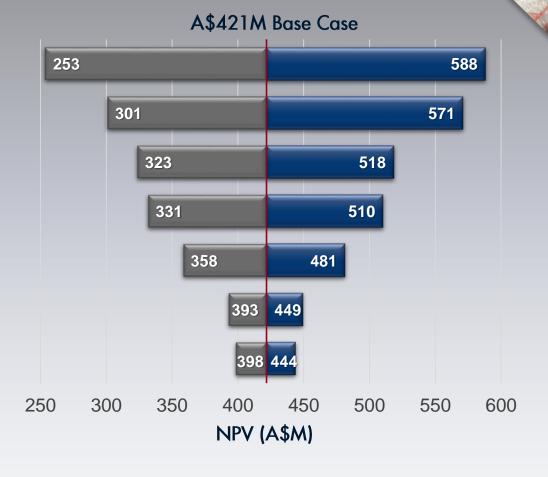
Li Grade Flex (+/-10%)

Operating Cost Flex (+/-15%)

Li Recoveries (74-84%)

Capital Cost Flex (+/-15%)

Ta Recoveries (40-60%)

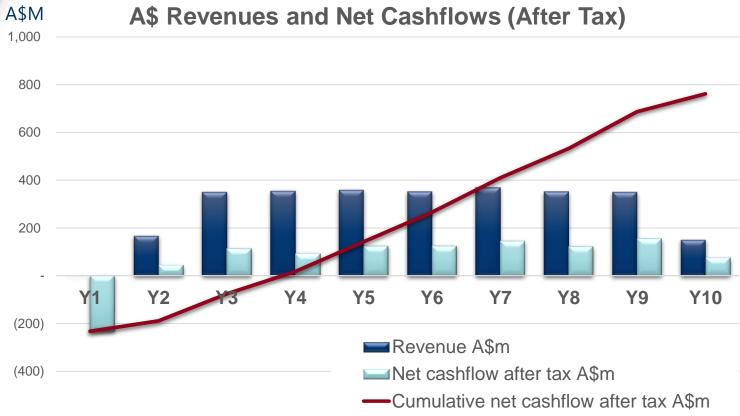




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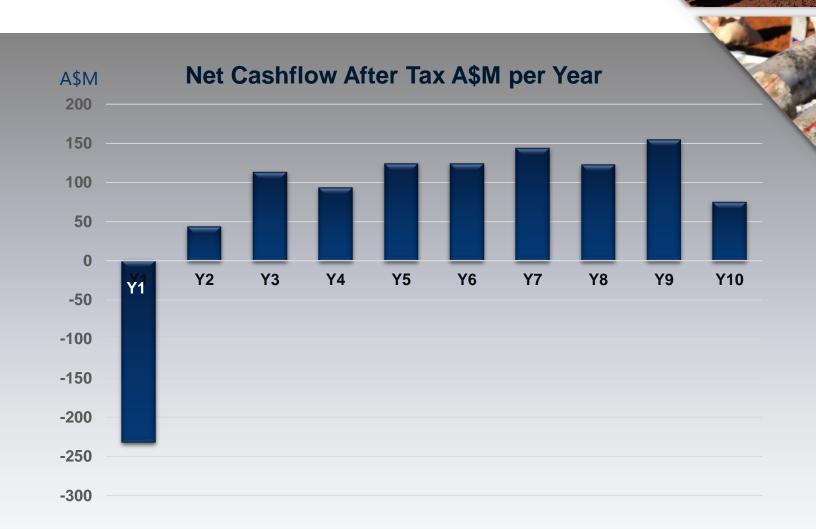
Cash Flow Profile

<3 Year Payback Period</p>

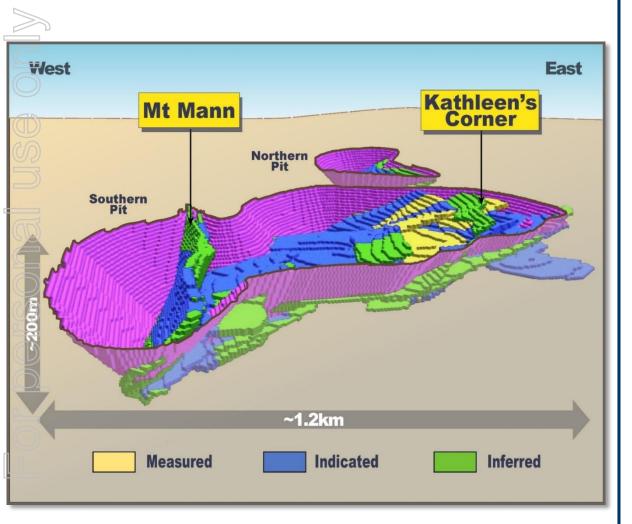


Cash Flow Per Year





Resources and Mining





Global resource 21.2Mt @ 1.4% Li₂O and 170ppm Ta₂O₅



75% Measured and Indicated



Scoping study Production Target of 15.7Mt @ 1.26% Li₂O and 154ppm Ta₂O₅



Open pits largely constrained by limit of data



Conventional open pit mining and processing



Favourable location close to established infrastructure



Access to world-class expertise and work force

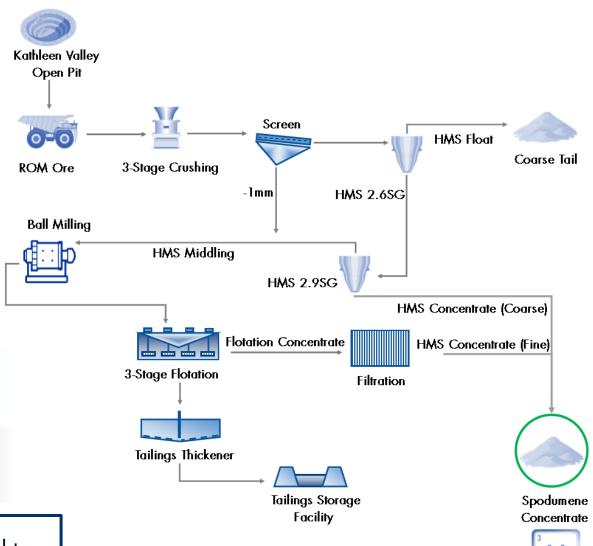
Metallurgy And Flowsheet – Preliminary Test Work Confirms a Saleable Li₂O Concentrate Can Be Produced

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 Ta_2O_5 conc.

Preliminary results unoptimised and very encouraging

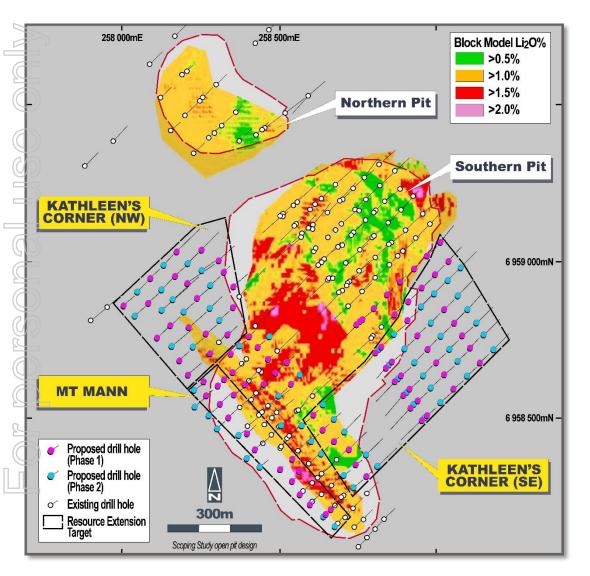
Additional test work in progress on a further 4 tonnes of sample



High priority placed on getting metallurgy right



Next Steps – Unlocking Further Value





Resource Growth

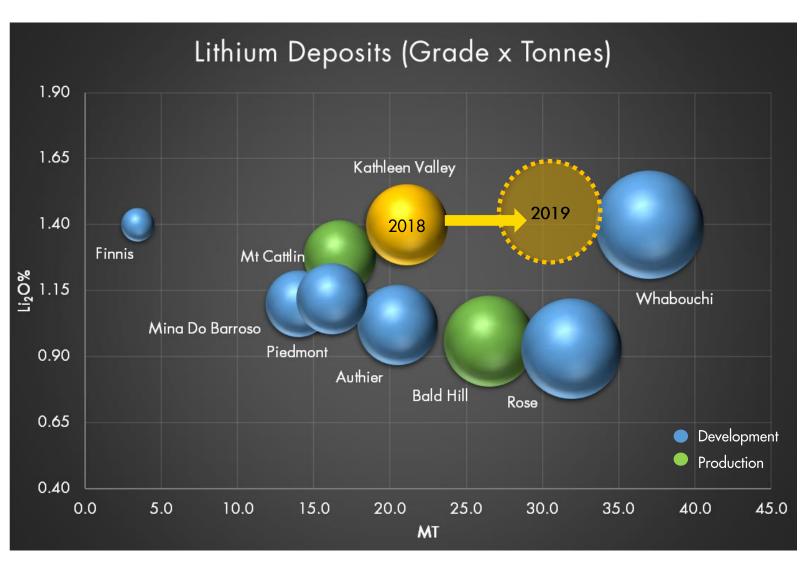
- ~16,000m RC drilling program in progress
- Testing immediate extensions of block model
- Targeting additional 8.5 16Mt @ 1.2 1.5% Li₂O*
- Potential to significantly increase mine life



Metallurgy

- Optimise unit processes to produce 6% Li₂O concentrate
- Confirm tantalum recovery
- Provide samples for potential offtake partners

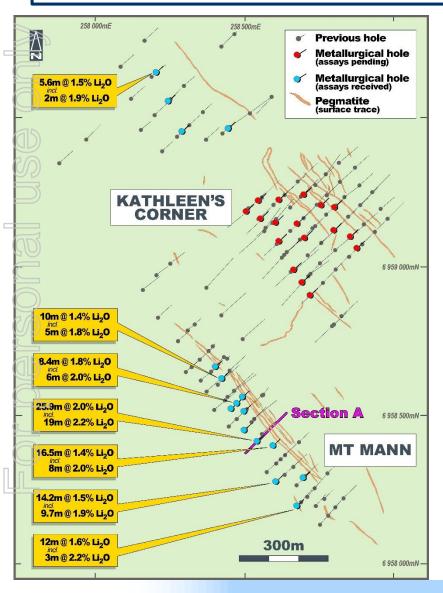
High Grade Compared With Most Peers - Plus Potential to Grow

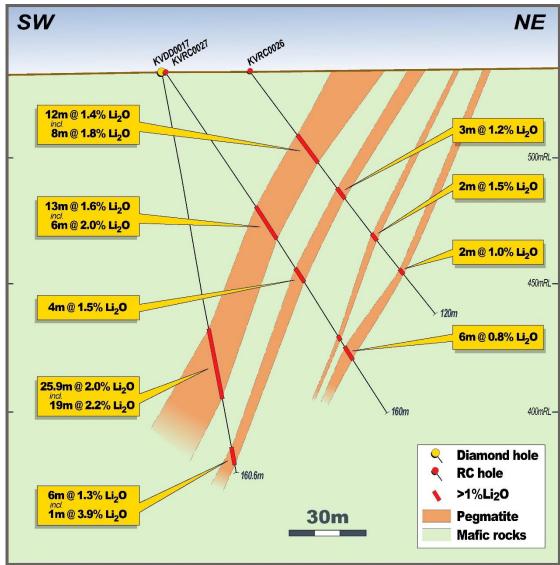


^{*} Resources as at 24 January 2019 (Sourced from company websites)

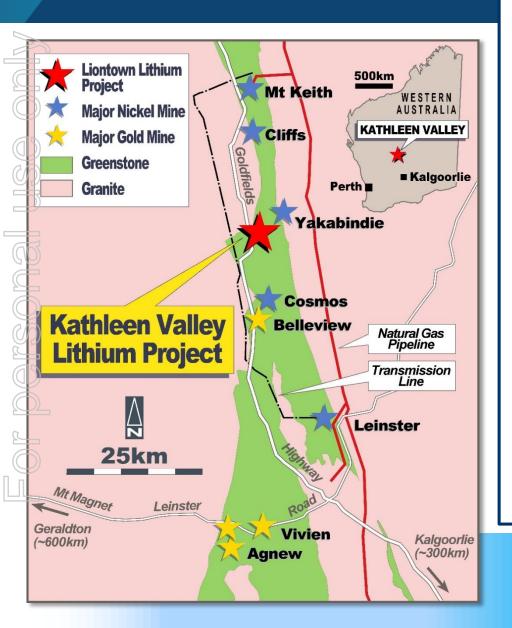
or personal

Recent Metallurgical Drilling Confirms Continuity of Geological Model





Investment Case





Robust, high grade resource



First world location and expertise



Active, well serviced mining region



Conventional mining and processing



Resource upside – 16,000m RC drilling program in progress



Strong focus on optimising recoveries – further test work in progress



Very experienced, well-credentialed management team



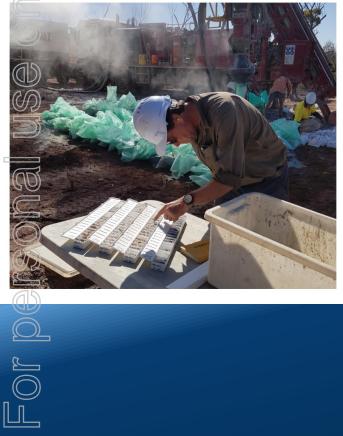
Further feasibility studies ongoing



Highly positive financial outcomes from Scoping Study









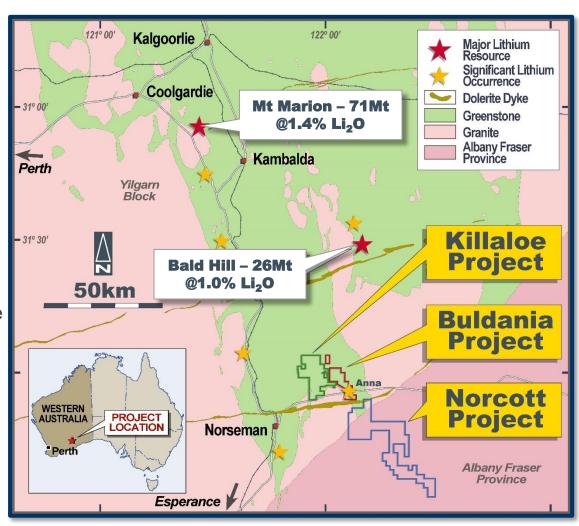


BULDANIA LITHIUM PROJECT

WESTERN AUSTRALIA

Buldania Is Strategically Located in a Lithium-rich Mineral Province

- Outcropping, fresh, spodumene-related 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, 650km² strategic land holding

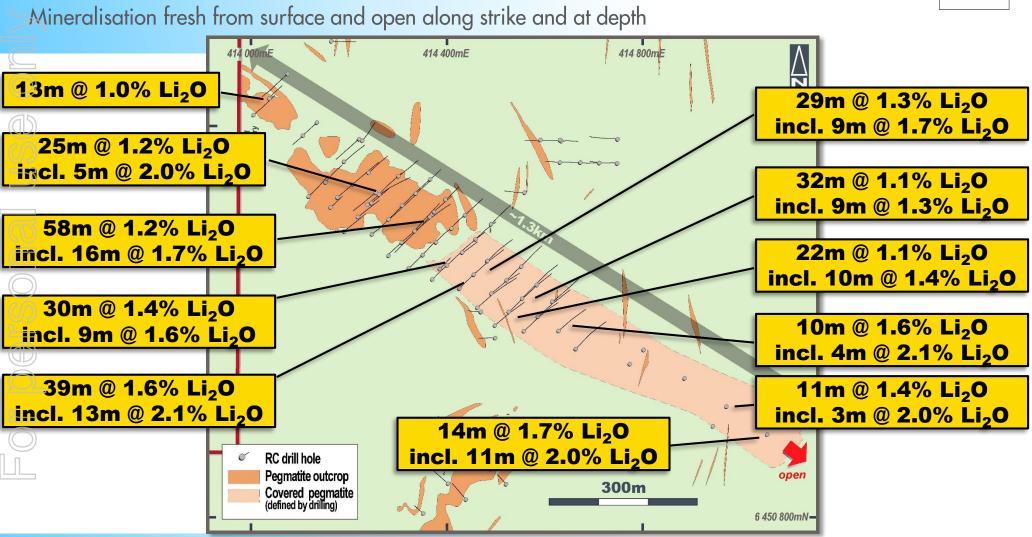


Significant lithium discovery

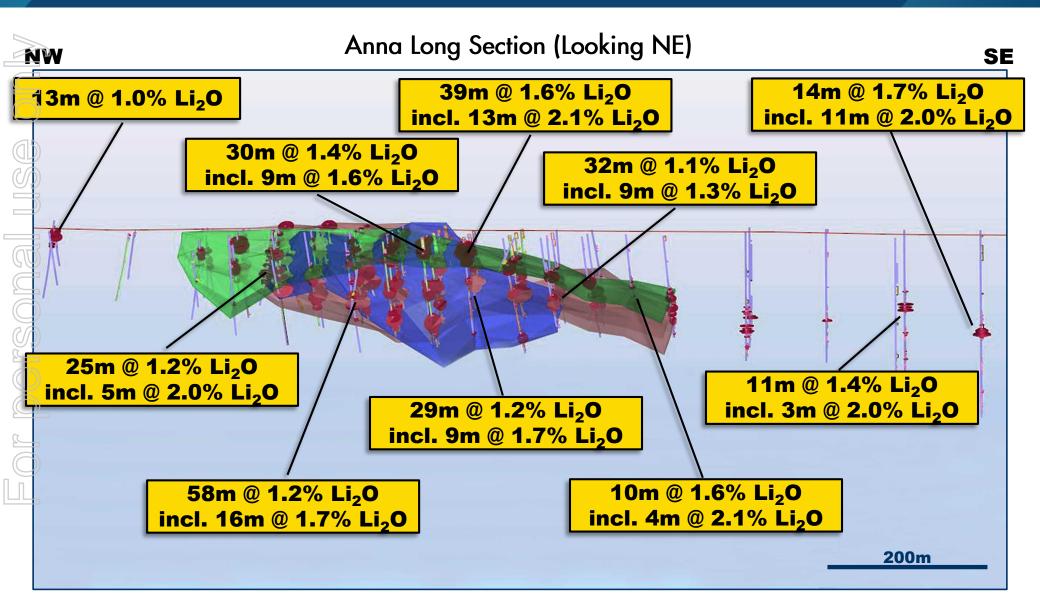
Total land position ~650km²

Large Lithium (Spodumene) Mineralised Pegmatite Defined at the Anna Prospect





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



Buldania is Part of a Large (~650km²) Land Position Highly Prospective For Lithium

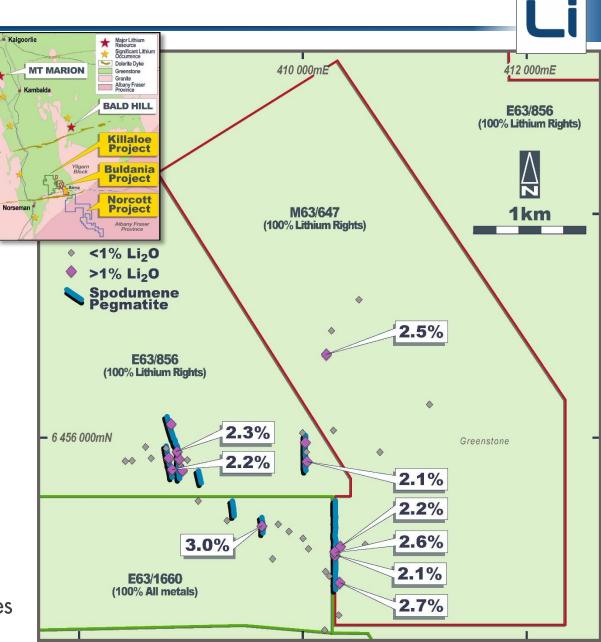
KILLALOE PROJECT

- 163km² area located immediately north west of the Buldania Project covers strike extension of Anna trend
 - ~20km strike length of prospective stratigraphy
 - Multiple spodumene-bearing pegmatites up to 800m long and 20m wide mapped
 - Assay values up to 3.0% Li₂O

NORCOTT PROJECT

- 377km² area located 4km to the south and
 along strike of the Buldania Project
 - Up to 1.8% Li₂O recorded from reconnaissance rock chip sampling

Multiple undrilled spodumene pegmatites



Going Forward

Kathleen Valley Lithium Project

- Resource Expansion (Q1 2019)
- Comprehensive Metallurgy (Q1/Q2 2019)
- Feasibility Studies (Q12019 Q1 2020)
 - Metallurgy
 - √ Hydrology
 - ✓ Optimisation/Engineering Studies
 - Process Plant and Infrastructure
 - Environmental

- (Q2/Q32019)



Projects are either Wholly Owned or Liontown has 100% of the Relevant Mineral Rights

A Proven, Experienced Board



Managing Director

+35 years experience Discovered Vera

Nancy Gold
Deposits



Chairman

- +40 years experience
- Executive Chairman Chalice Gold Mines



Non-Executive Director

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



Non-Executive Director

- +30 years experience
- Former Senior
 Partner at Deloittes



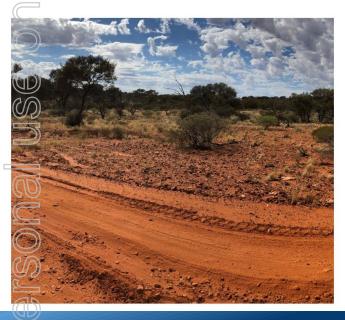
Non-Executive Director

- +40 years experience
- Director of Lycopdium Minerals

Corporate Snapshot

ASX CODE	LTR
SHARES ON ISSUE	~1,134M
MARKET CAPITALISATION	\$28M (AT ~2.5CPS)
MAJOR SHAREHOLDER	TIM GOYDER ~20%
TOP 20 SHAREHOLDERS	50.8%

Liontown





















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	1 <i>5.7M</i> t ore	
Average Li ₂ O grade (diluted)	1.26%	
Average Ta ₂ O 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

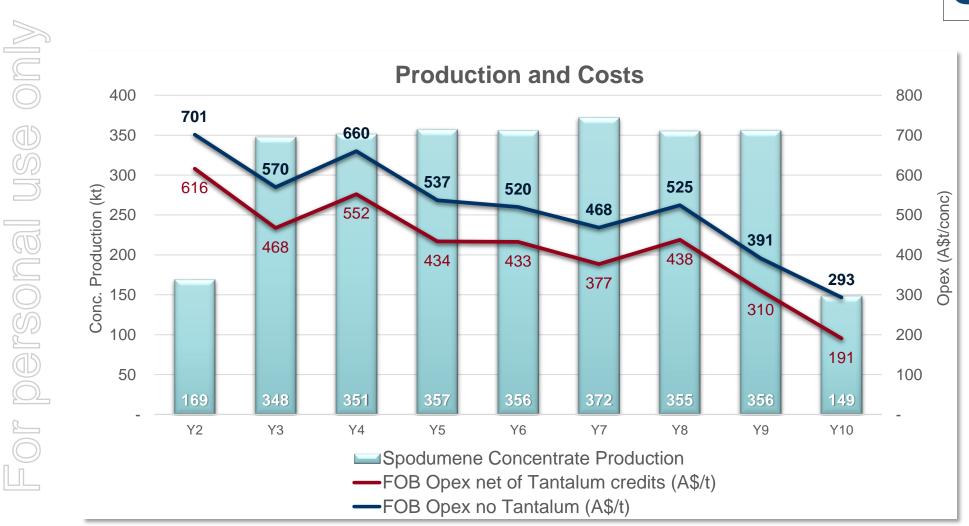
15	A\$M
Revenues	2,802
Operating costs	(1,236)
Capital expenditure	
pre-production	(232)
sustaining	(25)
Royalties	(232)
Corporate tax	(315)
Life of Mine Project Free Cash flow	762

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

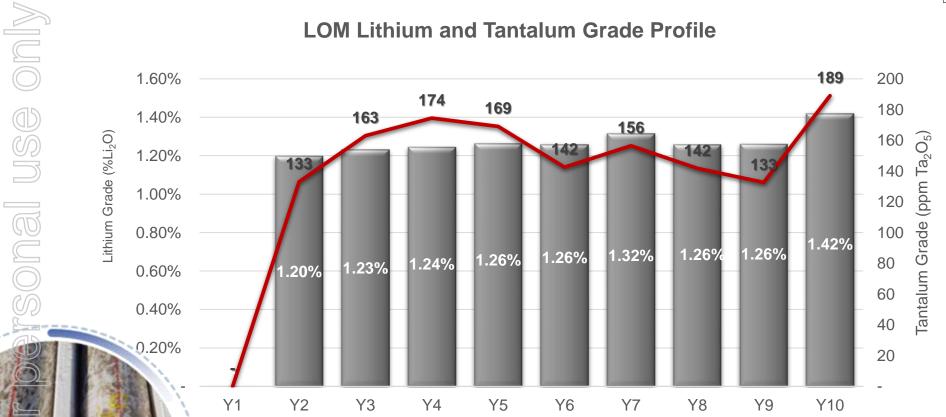
Scoping Study – Production And Costs





Scoping Study – Grade Profiles



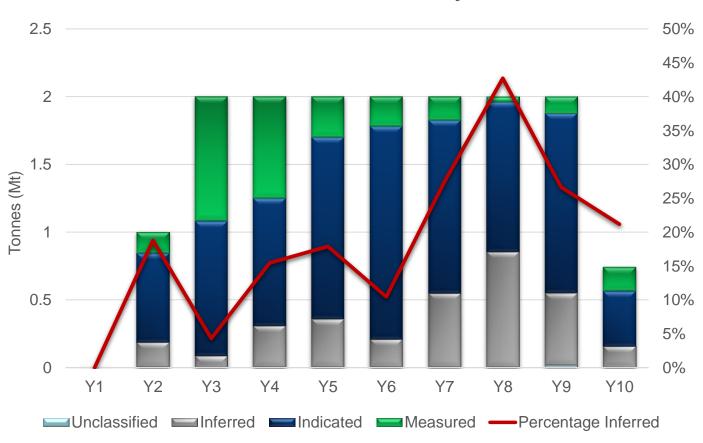


Scoping Study - Production Classification



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Production Classification by Year



Exploration Target Parameters and Assumptions



			Kallanda Carra	Kaldanii Cara	
	Parameter	Mt Mann	Kathleen's Corner (NW)	Kathleen's Corner (SE)	Rationale
	Combined strike length of pegmatites	700 – 800m	300	200	Based on previous drilling and extrapolation of block model used in preparation of maiden Mineral Resource Estimate (released 4 th September 2018)
	Average cumulative true width	12 – 20m	12 -18m	10 - 15m	
or personal	Down Dip extent	100 – 125m	250 – 350m	500 - 600m	
	Specific gravity	2.75	2.75	2.75	Measured from diamond core drilling
	Total tonnage	2.3 - 5.5Mt	2.5 - 5.2Mt	4.1 – 5.0Mt	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



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