

ASX Announcement (ASX: LTR)

10th November 2020

Company Presentation – November 2020

Liontown Resources (ASX:LTR) is pleased to advise that Managing Director David Richards will present to the following conferences this week:

Resources Rising Stars Conference on Tuesday 10th November 2020

Noosa Mining & Exploration Conference on Thursday 12th November 2020

A copy of the presentation is attached.

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Important Information



CAUTIONARY STATEMENT

¹The production targets and forecast financial information referred to in the PFS & DSS are based on Proven Ore Reserves (19.7%), Probable Ore Reserves (69.8%) and Inferred Mineral Resources (10.5%). The Inferred material included in the inventory is 8.28Mt @ 1.36% Li2O & 120 ppm Ta2O5. The Inferred material has been scheduled such that less than 1Mt is mined in the first ten years, with 6.44Mt at the end of the underground mine life and 0.84Mt after year 25 for the open pit.

The Inferred material does not have a material effect on the technical and economic viability of the project.

There is a low level of geological confidence associated with inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of indicated Mineral Resources or that the production target itself will be realised.

FORWARD LOOKING STATEMENTS

This Presentation contains forward-looking statements which are identified by words such as 'may', 'could', 'believes', 'estimates', 'targets', 'expects', or 'intends' and other similar words that involve risks and uncertainties. These statements are based on an assessment of present economic and operating conditions, and on a number of assumptions regarding future events and actions that, as at the date of this Presentation, are considered reasonable. Such forward-looking statements are not a guarantee of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company, the Directors and the management. The Directors cannot and do not give any assurance that the results, performance or achievements expressed or implied by the forward-looking statements contained in this Presentation will actually occur and investors are cautioned not to place undue reliance on these forward-looking statements. The Directors have no intention to update or revise forward-looking statements, or to publish prospective financial information in the future, regardless of whether new information, future events or any other factors affect the information contained in this Presentation, except where required by law or the ASX listing rules.

DISCLAIMER

Whilst care has been exercised in preparing and presenting this presentation, to the maximum extent permitted by law, Liontown Resources Limited and its representatives:

- Make no representation, warranty or undertaking, express or implied, as to the adequacy, accuracy, completeness or reasonableness of this Presentation;
- Accept no responsibility or liability as to the adequacy, accuracy, completeness or reasonableness of this Presentation; and
- Accept no responsibility for any errors or omissions from this Presentation.

COMPETENT PERSON STATEMENT

The Information in this Presentation that relates to Ore Reserves, Production Target and Pre-Feasibility Study (PFS) for the Kathleen Valley Project is extracted from the ASX announcement "Updated Kathleen Valley Pre-Feasibility Study delivers substantial increase in NPV to AS1.1 billion and mine life to ~40 years" released on 9th October 2020 which is available on www.ltresources.com.au

The Information in this Presentation that relates to Mineral Resources for the Kathleen Valley Project is extracted from the ASX announcement "Kathleen Valley confirmed as a world-class lithium deposit as Mineral Resource increases to 156Mt @ 1.4% Li2O" released on the 11th May 2020 which is available on www.ltresources.com.au.

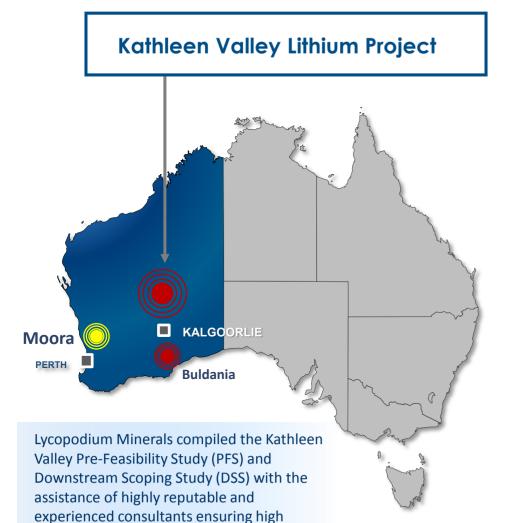
The information in this Presentation that relates to the Downstream Scoping Study (DSS) is extracted from the ASX announcement "Downstream Scoping Study: Kathleen Valley Lithium-Tantalum Project" released on 22 October 2020 which is available on www.ltresources.com.au

The information in this Presentation that relates to Exploration Results for the Moora Project is extracted from the ASX announcements "Initial phase of exploration completed at 100%-owned Moora Nickel Project, located north-east of Perth in Western Australia", "Strong gold, PGE, nickel and copper anomalism returned from initial fieldwork completed at 100%-owned Moora Project, WA", "Further outstanding gold, PGE and nickel results from 100%-owned Moora Project, WA" and "Large, strong EM conductors identified at the Moora Project, WA" released on 16th April 2020, 13th May 2020, 13th July 2020 and 24th September 2020 which are available on www.ltresources.com.au

The Information in this Presentation that relates to Mineral Resources for the Buldania Project is extracted from the ASX announcement "Liontown announces maiden Mineral Resource Estimate for its 100%-owned Buldania Lithium Project, WA" released on the 8th November 2019 which is 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 or production targets or forecast financial information derived from a production target (as applicable) 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.

Project Overview



standard studies



Kathleen Valley (Lithium-Tantalum)

(Gold-PGE-Nickel-



• World-class scale and economics

156Mt @ 1.4% Li₂O and 130ppm Ta₂O₅

• ~40 year mine life

• High grade

Multiple upside opportunities

• DFS due Q4 2021

• Emerging mineral province

Unexplored

Strong early results

Drilling Q4 2020/Q1 2021

Buldania (Lithium)

Moora

Copper)



• 15Mt @ 1.0% Li₂O

• Resource upside

Low Risk Assets



• 100% Ownership

Established infrastructure

Investor-friendly jurisdiction

• Highly credentialled management

Well funded (~\$17M cash)*

*Refer Slide 22

Kathleen Valley Lithium - Tantalum Project

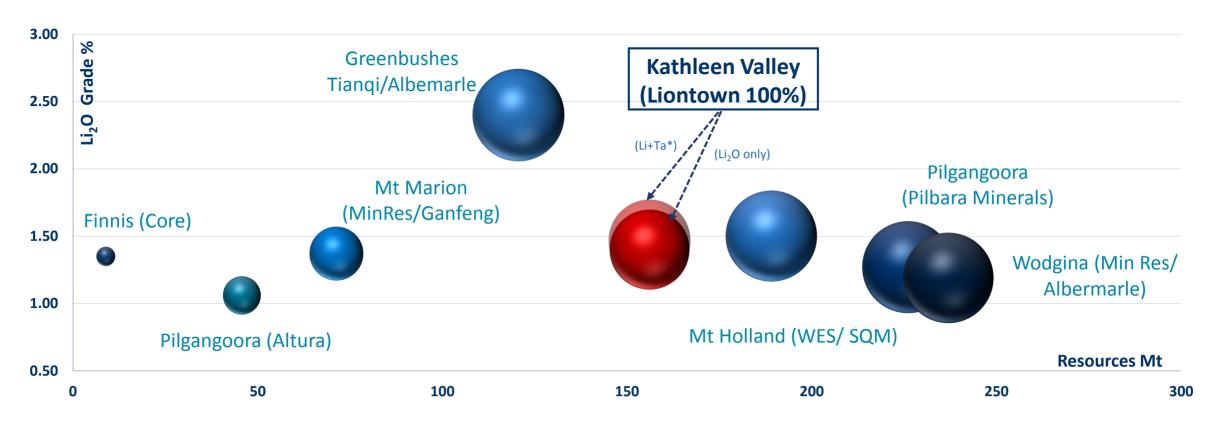
WESTERN AUSTRALIA 100%



A Tier 1 Lithium Resource



Australian Hard Rock Lithium Operations and Advanced Projects



Tonnes x Grade | Li₂O Only

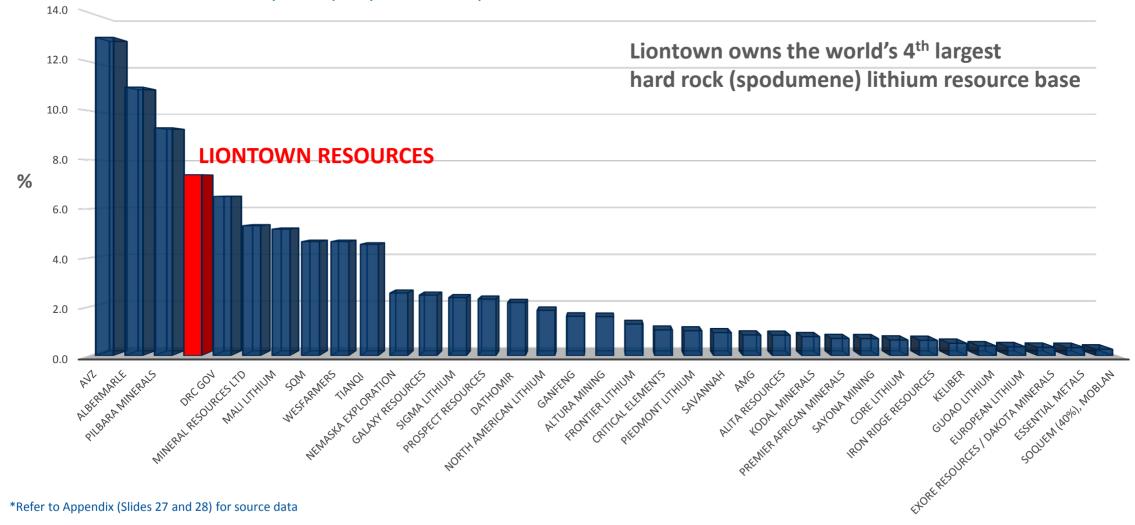
^{*}Refer to Appendix (Slide 25) for Peer Comparison information including Resource Classifications

^{*}Refer to Appendix (Slide 26) for lithium equivalents parameters and calculations

A Globally Significant Deposit



World Hard Rock Lithium (Spodumene-dominant) Operations and Advanced Projects % Attributable Resources by Company Ownership



October 2020 PFS Key Metrics¹



Based on May 2020 MRE – 156Mt @ 1.4% Li₂O and 130ppm Ta₂O₅

NPV ² (Post Tax)	A\$1.12B
IRR	37%
Payback	3 Years
Opex ³ Years 1 - 10	US\$345/dmt (SC6)
Opex ³ Years LOM	US\$377/dmt (SC6)
Ave. SC6 Price (2025-2040) ⁴	US\$739/dmt
Capex	A\$325M (includes \$67M Open Pit Mine Pre-production)



SC6: 350Ktpa

Ta₂O₅ (30%):

430tpa

A\$

Total Free Cash Flow +\$4.8B



Mining:

2Mtpa

Life of Mine

~40 years



Reserve:

71Mt @ 1.40% Li₂O 130ppm Ta₂O₅

Total production inventory¹ is 79Mt@ 1.4% Li₂O & 130 ppm Ta₂O₅

¹ Refer Cautionary Statement on Slide 2

² 8% (real)

³ Operating costs include all mining, processing, transport, state and private royalties, freight to port, port costs and site administration and overhead costs. Excludes sustaining capital. Royalties total US\$62/dmt Years 1- 10 and US\$67/dmt LOM.

⁴ Source: Roskill 2020 report. Refer to Appendix on Slide 29 for full assumptions.

Resources & Reserves

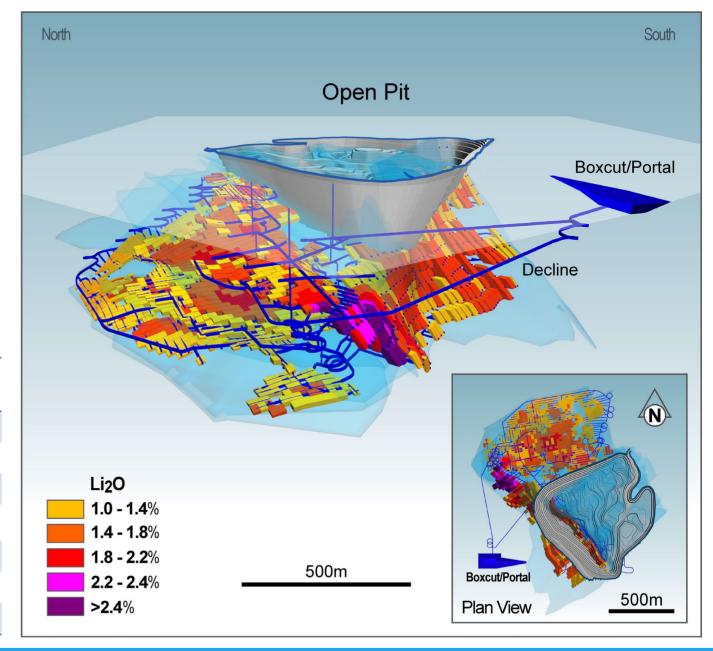
Mineral Resource Estimate¹ – May 2020

Cut-off Li₂O%	Resource Category	Million Tonnes	Li ₂ O%	Ta ₂ O ₅ (ppm)
	Measured	20	1.3	140
0.55	Indicated	105	1.4	130
	Inferred	32	1.3	110
тот	AL	156	1.4	130

¹ Inclusive of Ore Reserve

Ore Reserve – October 2020

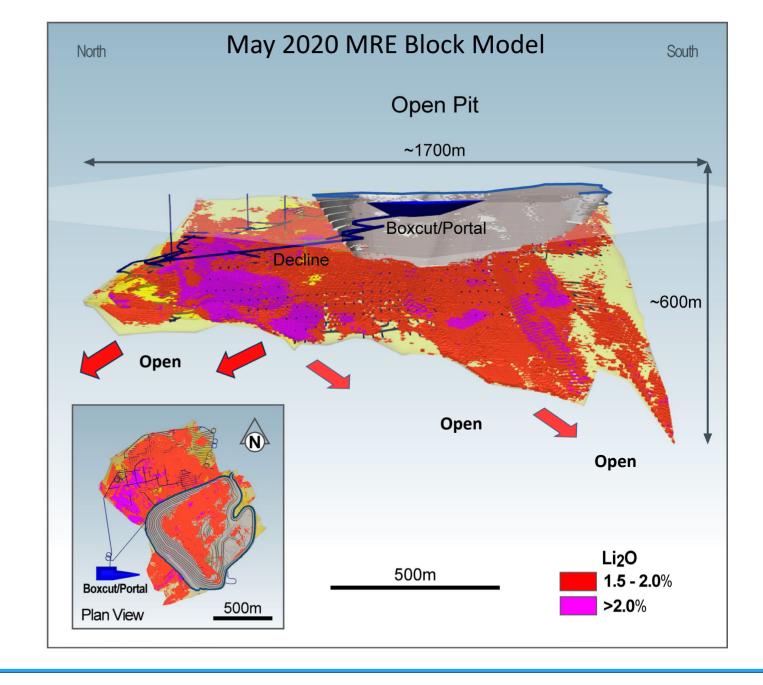
Cate	Million Tonnes	Li ₂ O%	Ta ₂ O ₅ (ppm)	
	Proven	3.9	1.4	130
Underground	Probable	37.6	1.5	120
	Sub Total	41.5	1.5	120
	Proven	11.7	1.2	140
Open Pit	Probable	17.6	1.2	130
	Sub Total	29.3	1.2	130
тот	TAL .	70.8	1.4	130



Upside

PFS is a critical step towards the DFS and maximising future opportunities

- Resource conversion/expansion
- Throughput increase
- Potential to produce a premium concentrate (>6.5% Li₂O)
- Downstream processing



¹Refer to Appendix (Slide 35) for process flow sheet

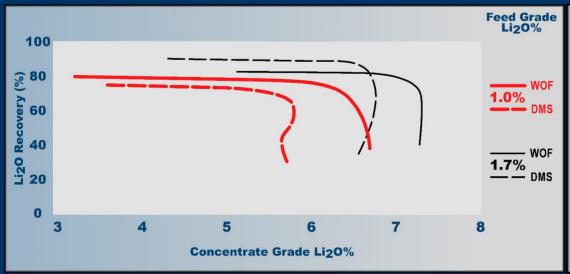
Whole of Ore Float Sheet De-Risks Project Execution

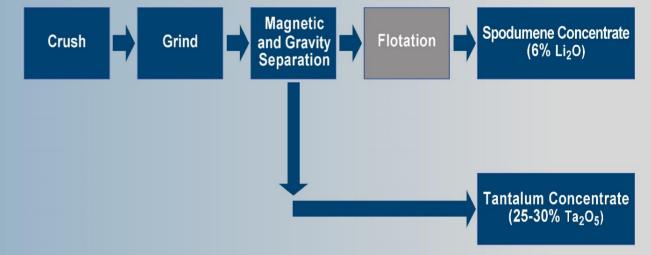


2020 Test Work Outcomes

- WOF produces higher grade concentrate compared with conventional DMS/Flotation processing
- Ta₂O₅ recovery of 56% at a grade of 15% achieved

- Tantalum mineralogy suitable for upgrade to 30%
 Ta₂O₅ concentrate offsite
- Magnetic separation reduces iron by up to 55% in flotation feed





WOF v DMS – Grade and Recovery Relationships

Proposed Whole Ore Flotation (WOF) Flowsheet

Downstream Scoping Study Key Metrics¹

Based on October 2020 PFS

METRIC	LHM	LSM
NPV (Post Tax/8% real)	A\$4.8B	A\$3.2B
IRR	41%	35%
LOM Free Cash Flow	A\$19.5B	A\$13.7B
Payback	3 Years	3 Years
LoM Opex (2, 6)	US\$4,744/t	US\$2,649/t
Price (2025 – 2040) ⁸	US\$14,079/t	US\$6,991/t
Design Production	58ktpa	88ktpa
Capex ^(3, 4, 5, 7)	A\$1.1B	A\$0.9B





Reserve:

71Mt @ 1.40% Li₂O 130ppm Ta₂O₅

Total production inventory¹ is 79Mt@ 1.4% Li₂O & 130 ppm Ta₂O₅

¹Refer Cautionary Statement on Slide 2

² Cash operating costs include all mining, processing, downstream refining, transport, state & private royalties, freight to port, port costs and site administration and overhead costs. Excludes sustaining capital.

³ Integrated Capex for LHM production includes \$325M for the mine/ SC6.0 processing plant (PFS) and \$785M for the downstream refinery

⁴ Integrated Capex for LSM production includes \$325M for the mine/ SC6.0 processing plant (PFS) and \$625M for the downstream refinery

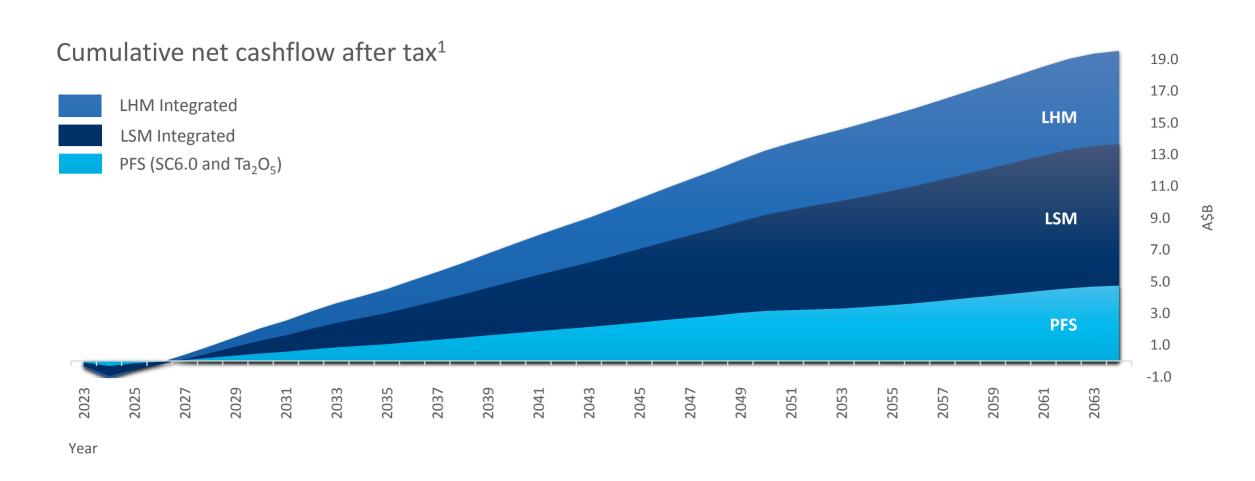
⁵SC6.0 plant capital to PFS level +/-25% accuracy, DSS to +/-30% accuracy

⁶ PFS included no contingency on SC6.0 operating costs, DSS included no contingency on operating costs

⁷ PFS included 15% (\$27M) capital contingency, DSS included 20% (\$135M LHM & \$109M LSM) contingency on capital costs | 8LHM Pricing per Roskill price estimates, LSM pricing scaled based on Roskill LHM price estimate (Sept. 2020). Refer to Slide 29 for full assumptions.

Integrated Project – Cash Flow and Payback





¹ Refer Cautionary Statement on Slide 2

Location and Infrastructure

Well serviced and highly active mining region



Major Ni & Au Mines





Goldfields Highway



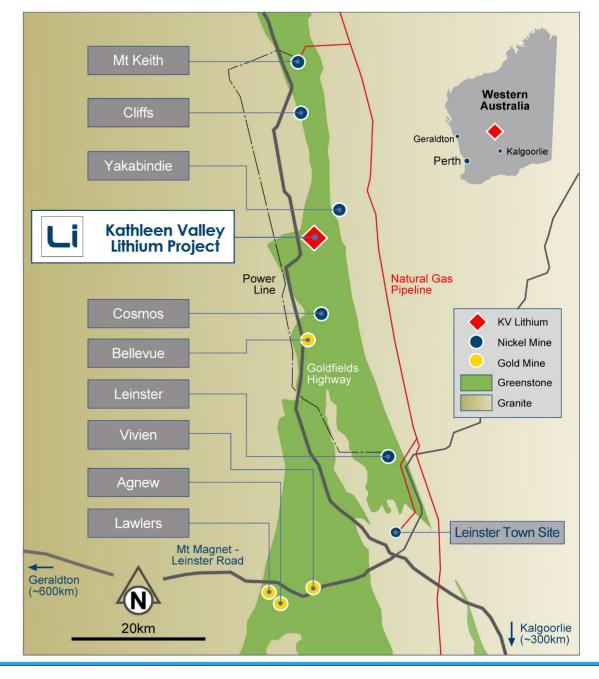
Town of Leinster



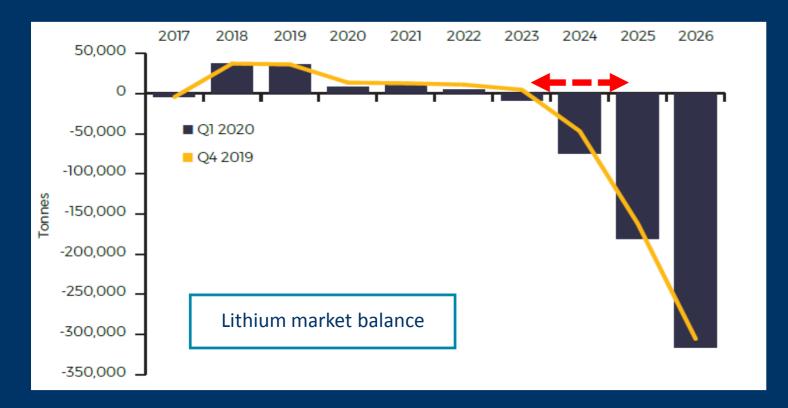
Sealed Airstrips



Natural Gas Pipeline



The longer-term fundamentals remain strong



Kathleen Valley production is on track to align with the forecast rise in lithium demand

Source: Benchmark Minerals, Intelligence Special Report, April 2020

Lithium – "The irreplaceable element in the electric era"

JANUARY 2020

 EU rules begin – heavily penalising carmakers on CO₂ emissions

MAY 2020

 France to provide €12,000 subsidies to switch out to EVs – aims to be #1 EV manufacturer in Europe

JUNE 2020

• Germany to mandate EV chargers at all fuel/gas stations on top of €6,000 subsidies to buy EVs

JULY 2020

- S&P Global Platts predicts global passenger EV sales forecast to reach 6.2 million units by 2024
- Deloitte forecasts EVs to make up a third of new cars sold globally by 2030

SEPTEMBER 2020

- California moves to ban sale of all ICE vehicles by 2035
- India plans \$4.6 billion in incentives for battery makers in EV push

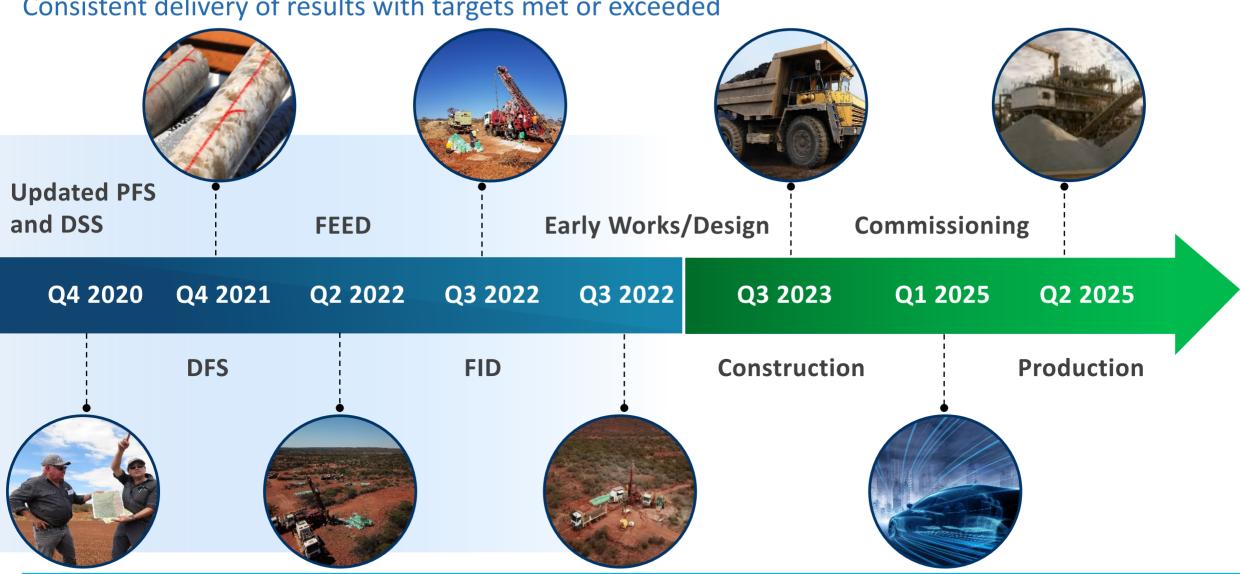
OCTOBER 2020

UBS predicts total price parity with ICEs by 2024

Timeline



Consistent delivery of results with targets met or exceeded





Project Overview



Moora is located in an emerging precious and base metal mineral province



Same geological terrain as the Julimar Ni-PGE-Au discovery by Chalice Gold Mines (ASX:CHN)¹



Tenements acquired in 2018 and 2019 as part of generative exploration strategy for battery metals



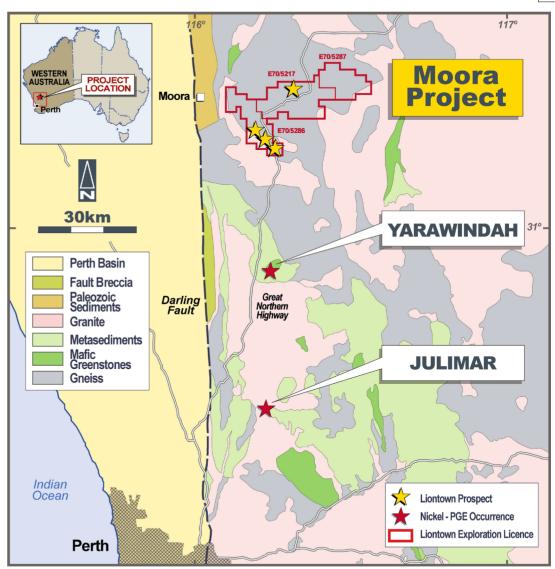
Limited historical surface geochemistry and shallow drilling has recorded strongly anomalous nickel, copper, PGEs & gold



Largely unexplored



100%-owned, granted tenure covering 467km² – only 150km from Perth



¹ ASX:CHN releases dated 23/03/20, 15/04/20, 11/05/20, 15/06/20 and 22/09/20.

Mt Yule - Felton Au - PGE Corridor





15km long, 2.5km wide zone with multiple, coincident Au-PGE and magnetic anomalies



Individual auger assays up to:

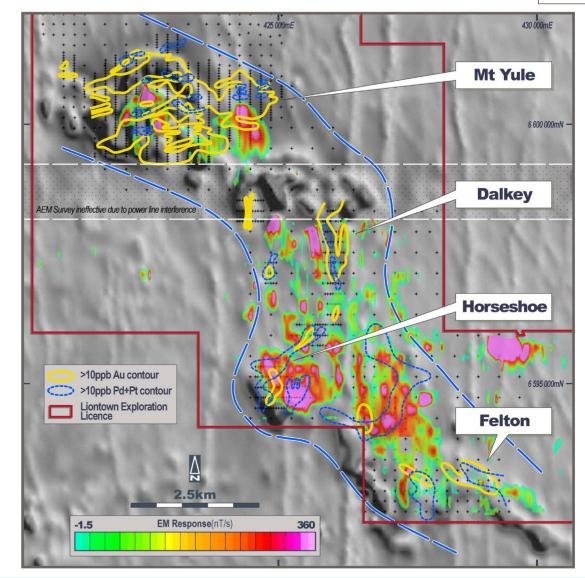
- 925ppb (0.92g/t) Au
- 75ppb Pd+Pt
- 492ppm Ni
- 884ppm Cu



Multiple plus 100ppb (0.1g/t) Au zones

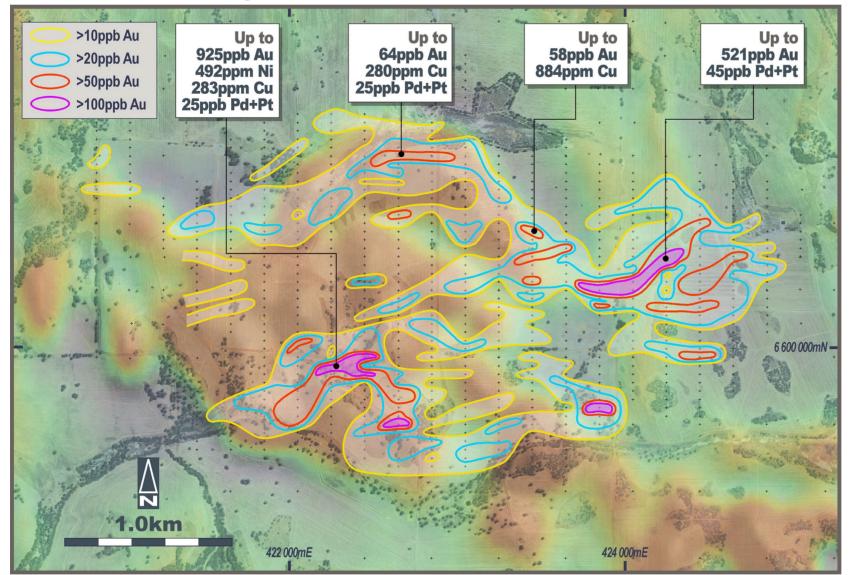


Airborne EM survey defines multiple late-time responses indicating possible sulphide-related mineralisation



Mt Yule Prospect





3.6 x 2.2km, multi-element anomaly



Results Continue to Validate Exploration Concept



Phase 1 (Q2/Q3 2020)

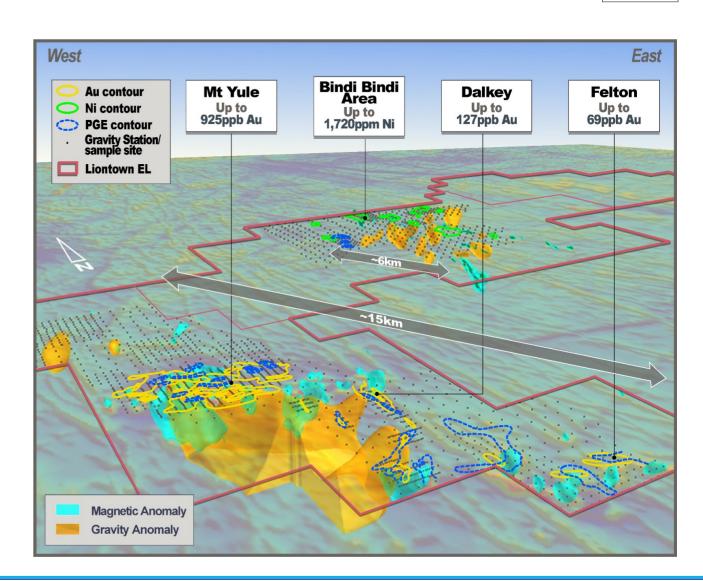
COMPLETE



- Auger sampling phase 1
- Extend first pass auger sampling to adjacent areas
- Airborne EM
- Total budget ~ \$500,000

Phase 2 (Q4 2020/Q1 2021)

- Ground EM (MLEM) Mount Yule-Felton Corridor (MYFC) and Bindi Bindi Area
- Aircore drilling
- RC/Diamond drilling
- Complete gravity/auger coverage
- Total budget ~ \$2,000,000



Investment Case



The only independent "Tier 1" lithium resource in Australia, strengthened by exciting new exploration targets

Kathleen Valley





156Mt resource/ 40 Year mine life



High grade/Low cost



Safe jurisdiction with good infrastructure



Multiple opportunities to improve economics

Moora





Au-PGE-Ni-Cu Project in an emerging mineral province



Exceptional early results with follow up ongoing

Projects are 100% owned and in a stable, established, investor friendly jurisdiction

Leadership and Key Financials





Managing Director

- +35 years
- Discovered multimillion ounce Vera Nancy Gold Deposits



Tim Goyder
Chairman

- +40 years
- Chairman Chalice
 Gold Mines



Craig Williams

Non-Executive Director

- +40 years
- Founder and CEO of Equinox Minerals



Anthony Cipriano
Non-Executive Director

- +30 years
- Former
 Senior Partner
 at Deloitte



Steven Chadwick
Non-Executive Director

- +40 years
- Director of Lycopodium Limited

Corporate Snapshot

ASX CODE: LTR

Shares on Issue	~1,737M (4 Nov 2020)
Market Capitalisation	~\$400M (at 23cps)
Major Shareholder	Tim Goyder ~18%
Top 20 Shareholders	~43% (4 Nov 2020)
Cash*	~\$17M (30 Nov 2020 estimate)
Research Coverage	Bell Potter/Bridge Street Capital

^{*} Estimated cash balance which includes anticipated \$2.2M Tranche 2 Director placement proceeds announced 29 Oct 2020 (subject to shareholder approval at Company AGM on 25 November 2020).



Chief Operating Officer

- +20 years
- Former COO
 Nzuri Copper
- Mechanical Engineer



Craig Hasson
CFO & Co. Secretary

- +15 years
- Former Ernst & Young
- Commercial & Financial experience



Jamie Day
Exploration Manager

- +20 years
- Former Senior
 Geologist for
 Independence Group

Thank You

For more information visit www.ltresources.com.au









APPENDIX 1



Kathleen Valley Project Additional Information



Peer Comparison Information – Mineral Resource Estimates



Company	Project	Stage	Measured Mt	Indicated Mt	Inferred Mt	Global MRE Mt	MRE Grade	Information Source
Liontown Resources	Kathleen Valley	Development	20	105	32	156	1.35	ASX Announcement, 11 May 2020: https://www.ltresources.com.au
Liontown Resources	Buldania	Scoping	0	9.1	5.9	15	0.97	ASX Announcement, 11 August 2019: https://www.ltresources.com.au
Pilbara Minerals	Pilgangoora	Operating	22.8	112.8	90.4	226	1.27	ASX Announcement, 17 Sept 2018: http://www.pilbaraminerals.com.au/site/PDF/2235 0/PilgangooraReserveandResourceUpgrad e
Wesfarmers / SQM	Mt Holland	Development	66	106	17	189	1.50	ASX Announcement, 19 March 2018: https://wcsecure.weblink.com.au/pdf/KDR/01963105.pdf
Tianqi / Albermarle	Greenbushes	Operating	0.6	117.9	2.1	120.6	2.40	Talison Lithium 1st Quarter FY 2013 Results: https://www.sedar.com/CheckCode.do
Piedmont Lithium	Piedmont	Development	0	13.9	14	27.9	1.11	ASX Announcement, 25 June 2019: https://d1io3yog0oux5.cloudfront.net/ aee37ed4f1b7c04614dea0a7b549e5c2/piedmontlithiu m/db/336/2543/pdf/190625+-+Resource+Update_Final.pdf
Sigma Lithium	Grota de Cirilo	Development	26.3	19.4	6.6	52.4	1.43	Investor Presentation, January 2020: http://www.sigmalithiumresources.com/wp-content/uploads/2020.01.14-Sigma-Marketing-Presentation.pdf
Mineral Resources / Jiangxi Ganfeng	Mt Marion	Operating	0	22.7	48.7	71.3	1.37	ASX Announcement, 28th October: https://www.neometals.com.au/reports/2018-10-31-1697-MINMtMario.pdf
Altura Mining	Pilgangoora	Operating	7.4	34.2	4.1	45.7	1.06	ASX Announcement, 9 October 2019: https://alturamining.com/wp- content/uploads/2019/10/1982592.pdf
Core Lithium	Finnis	Development	1.1	1.9	5.9	8.9	1.35	Investor Presentation, November 2019 – https://wcsecure.weblink.com.au/pdf/CXO/02178950.pdf
Mineral Resources / Albermarle	Wodgina	Care & Maintenance	0	177	59.9	236.9	1.19	ASX Announcement, 23 October 2018 (only pegmatite resource used) - http://clients3.weblink.com.au/pdf/MIN/02037855.pdf

Kathleen Valley



Lithium Equivalency ($Li_2O + Ta_2O_5$) Parameters

Inputs				Outputs	LI20%
Tantalite (Ta2O5) \$/lb	69.9	(B2)	US\$ (Roskill 2025 – 2040 average price adjusted to FOB)		
Spodumene \$/tonne	739	(B3)	US\$ (Roskill 2025 – 2040 average price, adjusted to FOB)		
Tantalite recovery	50%	(B4)	Per LTR testwork inc off site losses ie 90% of 56%	Ta2O5 =	0.107 (F4)
Spodumene Recovery	76%	(B5)	Per LTR testwork		
				Equiv Li2O	
Ta2O5 Grade	30%	(B6)		grade =	1.5%
				(Li2O%	
Li2O Grade	6%	(B7)		+Ta2O5)	
Grade Ta2O5 in resource	130	(B9)	ppm (per resource)		
Grade Li2O in resource	1.35%	(B10)	(per resource)		
F4=B9*((B2)/(B3/B7))*(B4					
Equiv Li2O grade (Li2O% +	Ta2O5%) = F4/(:	100+B10)		

Peer Comparison Information

Global Attributable
Hard Rock
(Spodumene)
Resources

Company	Project (Ownership%) Status		Source	Global MRE (Mt)	Li20%	%Global Resources	
AVZ	Manono (60%)	DFS	May 2019 Resource Update, sourced from 21/4/2020 ASX release	240.0	1.7	13.0	
	Kings Mountain (100%)	Operating (C & M)	https://en.wikipedia.org/wiki/Kings_Mountain_Mine, https://www.albemarle.com/businesses/lithium/resource srecycling/lithium-resources	45.6	0.7		
Albemarle	Greenbushes (49%)	Operating	Sedar, Talison Dec 2012 NI43-101 for Greenbushes	59.1	2.3	11.0	
	Wodgina (60%)	Operating (C & M)	ASX Release 23/10/2018 (Mineral Resources)	142.2	1.2		
Pilbara Minerals	Pilgangoora (100%)	Operating	2019 Ann Rep	223.2	1.3	9.3	
Liontown	Kathleen Valley (100%)	PFS	ASX Release 11/5/2020	156.0	1.4	7.4	
Liontown	Buldania (100%)	Exploration	ASX Release 8/11/2019	14.9	1.0	7.4	
DRC Government	Manono (30%)	DFS	May 2019 Resource Update, sourced from 21/4/2020 ASX release	120.0	1.7	6.5	
Min Res Ltd	Mt Marion (50%)	Operating	ASX Release 31/10/2018 (Mineral Resources)	35.7	1.4	5.3	
IVIIII NES LIU	Wodgina (40%)	Operating (C & M)	ASX Release 23/10/2018 (Mineral Resources)	94.8	1.2		
Mali Lithium	Goulamina (100%)	Exploration	ASX Release 8/7/2020	108.5	1.5	5.2	
SQM	Mt Holland (50%)	Pre-Development	ASX Release 19/3/2018 (Kidman Resources)	94.5	1.5	4.7	
Wesfarmers	Mt Holland (50%)	Pre-Development	ASX Release 19/3/2018 (Kidman Resources)	94.5	1.5	4.7	
Tianqi	Greenbushes (51%)	Operating	Sedar, Talison Dec 2012 NI43-101 for Greenbushes	61.5	2.3	4.5	
Nemaska Exploration	n Whabouchi (100%)	Development	Nemaska May 31 2019 NI43-101	55.7	1.4	2.6	
Galaxy	James Bay (100%)	Exploration	ASX Release 11/3/2020	40.3	1.4	2.5	
Resources	Mt Cattlin (100%)	Operating	ASX Release 11/3/2020	14.6	1.3	2.5	
Sigma Lithium	Grota de Cirilo (100%)	Development	SEDAR Announcement Jan 10th 2019	52.4	1.4	2.4	
Prospect Resources	Arcadia (87%)	Exploration	ASX Release 20/11/2019, DFS Nov 2019, Presentation Feb 2020	63.2	1.1	2.3	
Dathomir	Manono (10%)	DFS	May 2019 Resource Update, sourced from 21/4/2020 ASX release	40.0	1.7	2.2	

Peer Comparison Information

Global Attributable
Hard Rock
(Spodumene)
Resources (continued)

Company	Project (Ownership%)	Status	Source	Global MRE (Mt)	Li20%	%Global Resources
North American Lithiur (CATL)	m La Corne (100%)	Development	NAL website - http://na-lithium.com/projects/, from Oct 12 2012 report	47.0	1.2	1.8
Ganfeng	Mt Marion (50%)	Operating	ASX Release 31/10/2018 (Mineral Resources)	35.7	1.4	1.6
Altura Mining	Pilgangoora (100%)	Operating	2019 Ann Rep, 9/10/2019 ASX release	45.7	1.1	1.6
Frontier Lithium	PAK & SPARK (100%)	Exploration	NI43-101 March 19 2020 (Frontier Lithium)	25.8	1.5	1.3
Critical Elements	Rose (100%)	DFS	Critical Elements Nov 29, 2017 NI43-101, 2019 Ann Rep	34.7	0.9	1.0
Piedmont Lithium	Core & Central (100%)	Exploration	ASX Release 25/6/2019	27.9	1.1	1.0
Savannah	Mina Do Barosso et al (100%)	Exploration	May 2019 Resource Announcement	27.0	1.1	0.9
AMG	Mibra (100%)	Operating	3rd April 2017 AMG release	24.5	1.1	0.8
Alita Resources	Bald Hill (100%)	Operating (C & M)	ASX Release 6/6/2018 (Alliance Minerals Assets)	26.5	1.0	0.8
Kodal Minerals	Bougouni (100%)	Exploration	August 27 2020 Corp Presentation	21.3	1.1	0.8
Premier African Minerals	Zulu (100%)	Exploration	13/11/2017 Scoping Study by Bara Resources	20.1	1.1	0.7
Sayona	Authier (100%)	DFS	ASX Release 24 /9/2018	20.9	1.0	0.7
Core Lithium	Bynoe (100%)	Exploration	2019 Ann Rep, 23/6/2020 Presentation	14.7	1.3	0.6
Iron Ridge Resources	Ewoyaa-Abonko- Kaampakrom (100%)	Exploration	AIM Release 28/1/2020	14.5	1.3	0.6
Keliber	Ostrobothnia (100%)	DFS	Company releases 30/9/2019 and 5/12/2019	14.2	1.1	0.5
GuoAo Lithium	Moblan (60%)	Exploration	ASX Release 31/5/2011 (Perilya)	8.6	1.4	0.4
European Lithium	Wolfsberg (100%)	Exploration	ASX Release 3/7/2017	11.0	1.0	0.4
Exore Resources / Dakota Minerals	Sepeda (100%)	Exploration	Dakota Minerals ASX Release 20/2/2017	10.3	1.0	0.3
Essential Metals	Cade (100%)	Exploration	ASX Release 25/11/2019	8.2	1.2	0.3
SOQUEM	Moblan (40%)	Exploration	ASX Release 31/5/2011 (Perilya)	5.7	1.4	0.3

2020 PFS v 2019 PFS



Key Parameters And Assumptions

tey rarameters / tria / tosampt		
General and Economic	2020 PFS ¹	2019 PFS
Discount rate (real, post-tax)	8%	8%
SC6.0 (US\$ per tonne FOB Geraldton)	US\$739/t ⁴	US\$690/dmt FOB SC6.0
Tantalum 30% conc. (US\$ per lb FOB Fremantle)	US\$69.9/lb ⁵	n/a
Exchange rate – AUD/USD	0.72	0.72
Mining and Production		
Average LOM strip ratio (Open Pit)	8.4:1	7.7:1
Processing rate	2Mtpa	2 Mtpa
Life-of-Mine Production Target (49Mt UG & 30Mt OP)	79 Mt ore	50.4 Mt ore
Li ₂ O & Ta ₂ O ₅ grades (diluted) years 1-10	1.5%/120 ppm	1.10%/NA
LOM average Li ₂ O & Ta ₂ O ₅ grades (diluted)	1.4%/130ppm	1.18%/NA
LOM average Li ₂ O recovery ²	76%	76%
Overall Ta ₂ O ₅ recovery (% including offsite upgrade losses of ~6%)	50%	0%
SC6.0 grade	6%	6.1%
Ta ₂ O ₅ Concentrate final grade	30%	NA
Moisture content of SC6.0	9%	9%
Avg annual Tonnes of SC6.0	350ktpa	NA
Avg annual Tonnes of 30% Ta ₂ O ₅ concentrate	430tpa	NA

Cost Assumptions	2020 PFS ¹	2019 PFS
LOM avg open pit mining costs ³ (\$/dmt ore processed)	A\$43	A\$35.12
LOM avg U/G mining costs (\$/dmt ore processed)	A\$55	NA
LOM average processing cost (\$/dmt ore processed)	A\$20	A\$18.20
Logistics and transport (\$/ wmt conc. inc Port Charges)	A\$65/wmt	A\$77.26
General and admin (\$/dmt ore processed inc. mining)	A\$6.0	A\$4.71
Western Australia State royalty	5%	5%
Private royalties (does not apply to MLA M36/696)	3% gross sales & A\$0.5/t ore mined	3% gross sales & A\$0.5/t ore mined
Corporate tax rate	30%	30%
Estimated opening tax losses	A\$35M	\$30m

¹ Refer Cautionary Statement on Slide 2

² Based on testwork derived grade recovery relationship for PFS mine plan grades of Li₂O (inclusive Ta₂O₅ extraction Li₂O losses)

³ Includes ROM rehandle

⁴ Per Roskill September 2020 Report for avg arms length prices (2025-2040), adjusted to FOB. \$US795/t FOB for 2041-2064.

⁵ Per Roskill September 2020 Report for avg arms length prices (2025-2040), adjusted to FOB. \$US65/lb FOB for 2041-2064.

PFS – Operating & Capital Summary¹



Life of Mine Financials

	(A\$B)
Revenues (lithium)	14.7
Operating costs ²	5.9
Capital expenditure - pre-production - sustaining	0.3 0.4
Royalties	1.3
Corporate tax	2.0
Life of Mine Free Cash flow	4.8

¹ Refer Cautionary Statement on Slide 2

Capital Costs Summary

Main Area	Capital (A\$M)
Treatment Plant	84.8
Reagents & Plant Services	16.0
Infrastructure – general	53.3
Mining Infrastructure	2.0
Construction Indirects	23.8
Subtotal	179.9
Management Costs	23.0
Owners Project Costs	19.8
Mining Pre-production (U/G & open pit)	67.1
Owners Pre-production	8.5
Subtotal	298.3
Contingency	26.8
Project Total	325.1

² Net of tantalum credits

2020 Downstream Scoping Study (DSS)



Key Parameters And Assumptions¹

General and Economic	LHM	LSM
Discount rate (real, post-tax)	8%	8%
Ave. Price (US\$/t FOB Fremantle 2025-2040)	US\$14,079/t ⁵	US\$6,991/t ⁶
Tantalum 30% conc. (US\$/lb FOB Fremantle)	US\$69.9/lb ⁷	US\$69.9/lb ⁷
Exchange rate – AUD/USD	0.72	0.72
Downstream Integrated Refinery		
Number of processing trains	2	2
Recovery Li (%)	90	90
Calcination temperature (°C)	1,100	1,100
Sulphuric Acid Addition (mol/mol)	1.25 (H ₂ SO ₄ :Li ₂ O)	1.25 (H ₂ SO ₄ :Li ₂ O)
Acid Roast Temperature (°C)	250	250
Acid Leaching Residence Time (minutes)	120	120
Lithium Sulphate Crystalliser Stages (per train)	2	2
Design Production	58ktpa	88ktpa

Cost Assumptions	LHM	LSM
LOM avg operating cost (US\$/dmt SC6) ²	US\$310	US\$310
LOM avg operating costs inc. SC6 costs ³	US\$4,744	US\$2,649
LOM average processing upgrade cost LSM to LHM	NA	US\$1,509/t LHM
Transport costs (A\$/t to Fremantle)	A\$86	A\$86
Western Australia State royalty ⁴	5%	5%
Private royalties 4 (does not apply to MLA M36/696)	3% gross sales &	3% gross sales &
	A\$0.5/t ore mined	A\$0.5/t ore mined
Corporate tax rate	30%	30%
Estimated opening tax losses	A\$35M	\$30m

¹ Refer Cautionary Statement on Slide 2

² Excludes royalties

³ Includes royalties

⁴ Based on spodumene feedstock market value for gross sales

⁵ Per Roskill September 2020 Report for avg China Spot Prices (2025-2040), adjusted to FOB. \$US15,512/t FOB for 2041-2064.

⁶ LTR assumed prices based on 50% factored Roskill LHM prices (2025-2040), adjusted to FOB. \$US7,707/t FOB for 2041-2064.

⁷ Per Roskill September 2020 Report for avg arms length prices (2025-2040), adjusted to FOB. \$US65/lb FOB for 2041-2064.

DSS – Cash Flows

Integrated Life of Mine Financials¹

	LHM (A\$B)	LSM (A\$B)
Revenues (lithium)	43.2	32.6
Operating costs ^{2, 4}	(12.5)	(10.4)
Capital expenditurepre-productionsustaining	(1.1) (0.4)	(0.9) (0.4)
Royalties (All)	(1.3)	(1.3)
Corporate tax	(8.4)	(5.9)
Life of Mine Free Cash flow	19.5	13.7



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Main Area	LHM (A\$M)	LSM (A\$M)
WOF Plant & Mine Dev.	298	298
DSS Refinery and Infrastructure		
Plant site/Earthworks	7.1	7.1
Treatment Plant	377.2	292.3
Reagents/Plant Services	37.2	30.5
Plant Buildings	6.5	6.5
Camp Expansion	12.6	11.8
Distributable	69.6	55.1
Preproduction Costs and Spares	39.8	32.5
Mobile Equipment	5.0	5.0
Subtotal	853.0	738.8
EPCM Management Costs (DSS) Owners Costs (DSS)	76.5 19.1	60.5 15.1
Subtotal	948.6	814.4
Contingency (DSS+PFS) ⁵	161.5	135.6
Project Total	1,110.1	950.0

¹ Refer Cautionary Statement on Slide 2

² Net of tantalum credits

³ SC6.0 plant capital to PFS level +/-25% accuracy, DSS to +/-30% accuracy

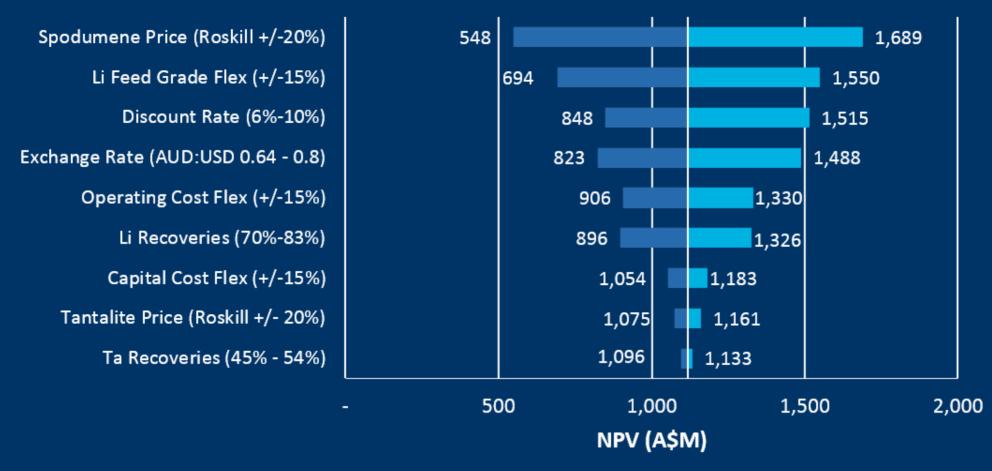
⁴PFS included no contingency on SC6.0 operating costs, DSS included no contingency on operating costs

 $^{^5}$ PFS included 15% (\$27M) capital contingency, DSS included 20% (\$135M LHM & \$109M LSM) contingency on capital costs

NPV Sensitivity Analysis (PFS)¹



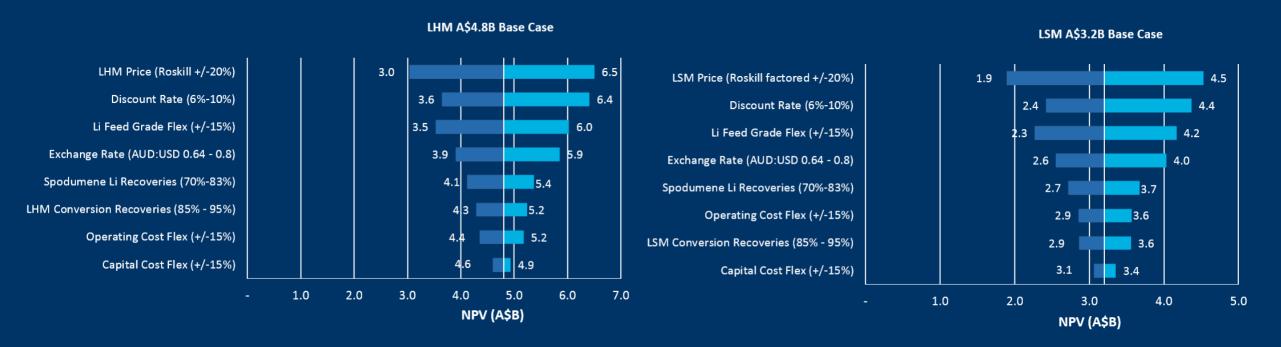
A\$1,120M Base Case



¹ Refer Cautionary Statement on Slide 2

NPV Sensitivity Analysis (DSS)¹

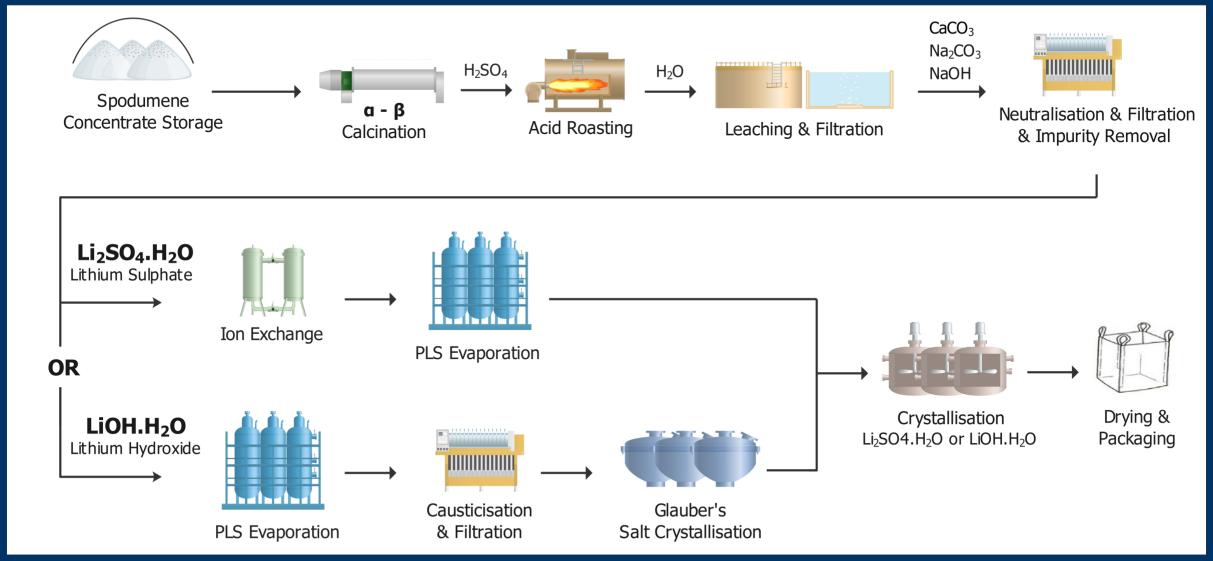




¹ Refer Cautionary Statement on Slide 2

DSS | Refinery Flow Sheet





APPENDIX 2



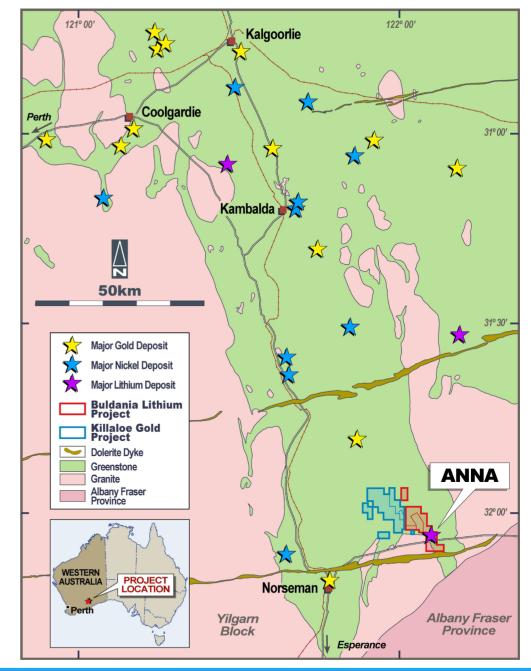
Buldania Lithium Project (Liontown 100%)



Project Overview

Buldania is Located in a Lithium-Rich Mineral Province

- 1 Outcropping, fresh, spodumene-related mineralization
- Mineralisation at Anna extends to the SE under shallow cover strike length >1.4km 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
- 5 Liontown has 100% of the lithium and related metal rights
- 6 Mining Lease Application lodged over Anna deposit





Resource



Maiden Mineral Resource Estimate 14.9Mt @ 1.0% Li₂O

The completion of the MRE complements Liontown's flagship Kathleen Valley Lithium Project

