



**AusTinMining**

**Cash Flow + Growth + Upside**

**Sydney & Melbourne Tin Seminars - November 2017**



# Important Information

## Forward Looking Statement

This presentation may contain certain statements and projections provided by or on behalf of Aus Tin Mining Limited (Aus Tin Mining) with respect to the anticipated future undertakings. These forward-looking statements reflect various assumptions by or on behalf of Aus Tin Mining. Accordingly, these statements are subject to significant business, economic and competitive uncertainties and contingencies associated with exploration and/or mining which may be beyond the control of Aus Tin Mining which could cause actual results or trends to differ materially, including but not limited to price fluctuations, exploration results, reserve and resource estimation, environmental risks, physical risks, legislative and regulatory changes, political risks, project delay or advancement, ability to meet funding requirements, factors relating to property title, native title and aboriginal heritage issues, dependence on key personnel, share price volatility, approvals and cost estimates. Accordingly, there can be no assurance that such statements and projections will be realised. Aus Tin Mining makes no representations as to the accuracy or completeness of any such statement of projections or that any forecasts will be achieved.

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## Material Assumptions

The material assumptions which support the Taronga Ore Reserves Estimate, Production Targets and the forecast financial information derived from the Production Targets are disclosed in the body of the ASX announcements referred to in this Presentation, with the exception of commercially sensitive information.

## Competent Persons Statement

The information in this presentation that relates to Exploration Targets and Exploration Results is based on information compiled by Mr Nicholas Mather B.Sc (Hons) Geol., who is a Member of The Australian Institute of Mining and Metallurgy. Mr Mather is employed by Samuel Capital Pty Ltd, which provides certain consultancy services including the provision of Mr Mather as a Director of Aus Tin Mining. Mr Mather has more than five years experience which is relevant to the style of mineralisation and type of deposit being reported and to the activity, which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves' (the JORC Code). This public report is issued with the prior written consent of the Competent Person(s) as to the form and context in which it appears.

The information in this Announcement that relates to Mineral Resources is based on information extracted from the report entitled "Maiden JORC Resource Estimated for the Taronga Tin Project" created on 26<sup>th</sup> August 2013 and is available to view on [www.austinmining.com.au](http://www.austinmining.com.au). Aus Tin Mining confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

In the information in this Announcement that relates to Ore Reserves is based on information extracted from the report entitled "Pre-Feasibility Advances the Taronga Tin Project" created on 7<sup>th</sup> April 2014 and is available to view on [www.austinmining.com.au](http://www.austinmining.com.au). Aus Tin Mining confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

# Aus Tin Mining (ANW) aiming to become a major Australian tin producer

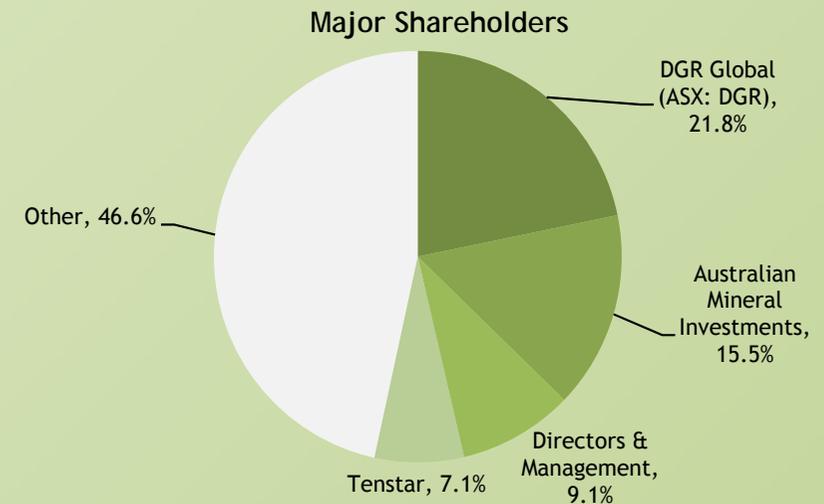
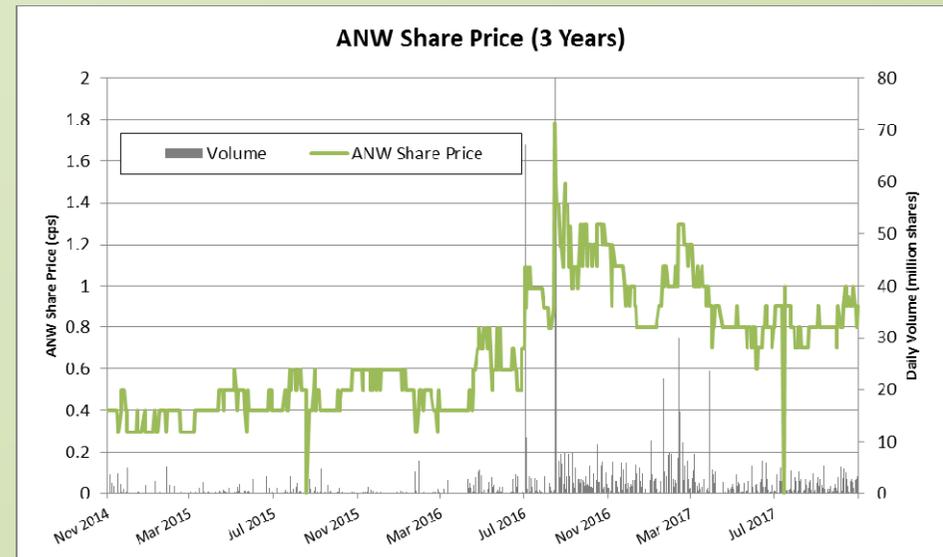
- ✓ Executing a strategy to deliver tin production before expected rise in tin prices
  - Tin is yet to attract the attention of other industrial metals critical to energy revolution
  - Pipeline of projects from operating (Granville), development (Taronga) and exploration (Torrington)
  - Limited direct investment options into tin producing companies could provide leverage to rising sentiment
- ✓ Also undertaking exploration for cobalt & lithium:
  - High cobalt grade Mt Cobalt
  - Lithium targets at Torrington
- ✓ Experienced Board & Management collectively holding 9 percent of issued shares
- ✓ Active program of work for 2018

Aus Tin Mining's Production, Development & Exploration Projects



# Corporate Overview

Our Vision	To become a major Australian tin producer & become the tin stock of choice on the ASX
ASX Ticker	ANW
Market Capitalisation	\$15.3M (0.9cps closing price 3 November 2017)
12 Month Range	0.6 cps - 1.5cps
Capital Structure	1,697M shares and 62M options (2cps )
Cash	\$0.49M (2 November 2017)
Board	Brian Moller (Chairman) - also DGR Global, Sol Gold PLC, Platina Resources Nick Mather (Exec) - also DGR Global, Sol Gold PLC, (ex Orbis Gold; Bow Energy) John Bovard, (Non-Exec) - also Sol Gold; (ex Orbis Gold) Richard Willson (Non-Exec)
Management	Peter Williams (CEO) Karl Schlobohm (Co Sec)

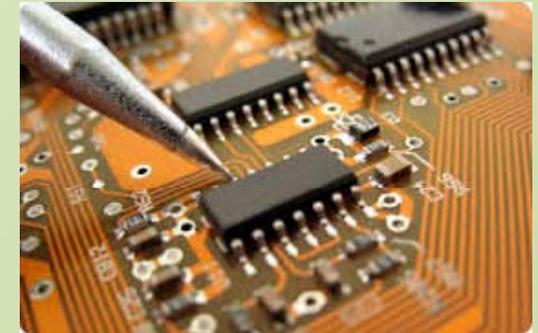


# Why we think tin is a good commodity to be invested in

- No longer a “tin can” story - it’s electronics (48%) and energy storage for hybrid cars (8%)

## Tin certainly part of the energy revolution

- Concerns over future supply
  - Last two years global supply in deficit driving LME stockpiles to historic lows
  - Global mine production in decline (down 11% from 2014)
  - Limited new projects in pipeline
- Limited investment options into tin producing companies
  - Aus Tin Mining one of seven tin focussed producers listed globally



Semi-conductor growth over 18% - driven by the booming memory device market<sup>1</sup>



Lead-Acid battery market forecast to grow 7.7%pa to 2020<sup>2</sup>

<sup>1</sup> Source EPS News, 15<sup>th</sup> December 2017

<sup>2</sup> Source ITRI, May 2017

# Granville Tin (TAS) - Providing cash flow & building development expertise

High Grade  
Brown Field

- High grade skarn up to 4.18%Sn<sup>1</sup>
- Existing plant & open cut
- Life of Mine (LOM) off-take with Traxys Europe

Level 1  
(De-risk)

- Production of saleable concentrate
- Re-treating low/medium-grade stockpiles
- Develop technical capabilities
- Pilot logistics & sales
- Level 2 permits obtained

Level 2  
(cash flow)

- Effective from ground disturbing activities (Level 1 concludes)
- Mining high-grade ore
- Increase production rate (40ktpa)
- Targeting 550tpa contained tin
- Estimated margin A\$10,000/t

Extend Life of Mine  
(exploration / acquisition / tolling)



Shipment Number 1 sold to Traxys Europe

<sup>1</sup> Refer ASX Announcement dated 7<sup>th</sup> December 2015

# Taronga Tin (NSW) - Provides scale and significant upside

Globally Significant  
(57,000 tonnes  
contained tin)<sup>1</sup>

- Open pit and low strip ratio
- Simple metallurgy
- Region has strong mining heritage
- Resource open at depth

Stage 1 Project  
(De-risk)

- Trial mine & pilot processing plant
- Production of saleable concentrate
- Forecast Revenue > CAPEX/OPEX
- Enable optimisation of funding model for Full Scale

Full Scale  
(BIG cash flow)

- PFS completed (2014)<sup>2</sup> with estimated revenues of A\$700M
- Potential to increased LOM revenues above A\$1,000M<sup>3</sup>
  - Realising probable range of true grades<sup>2</sup>
  - Recovery of by-product credits

Extend Life of Mine  
(exploration)

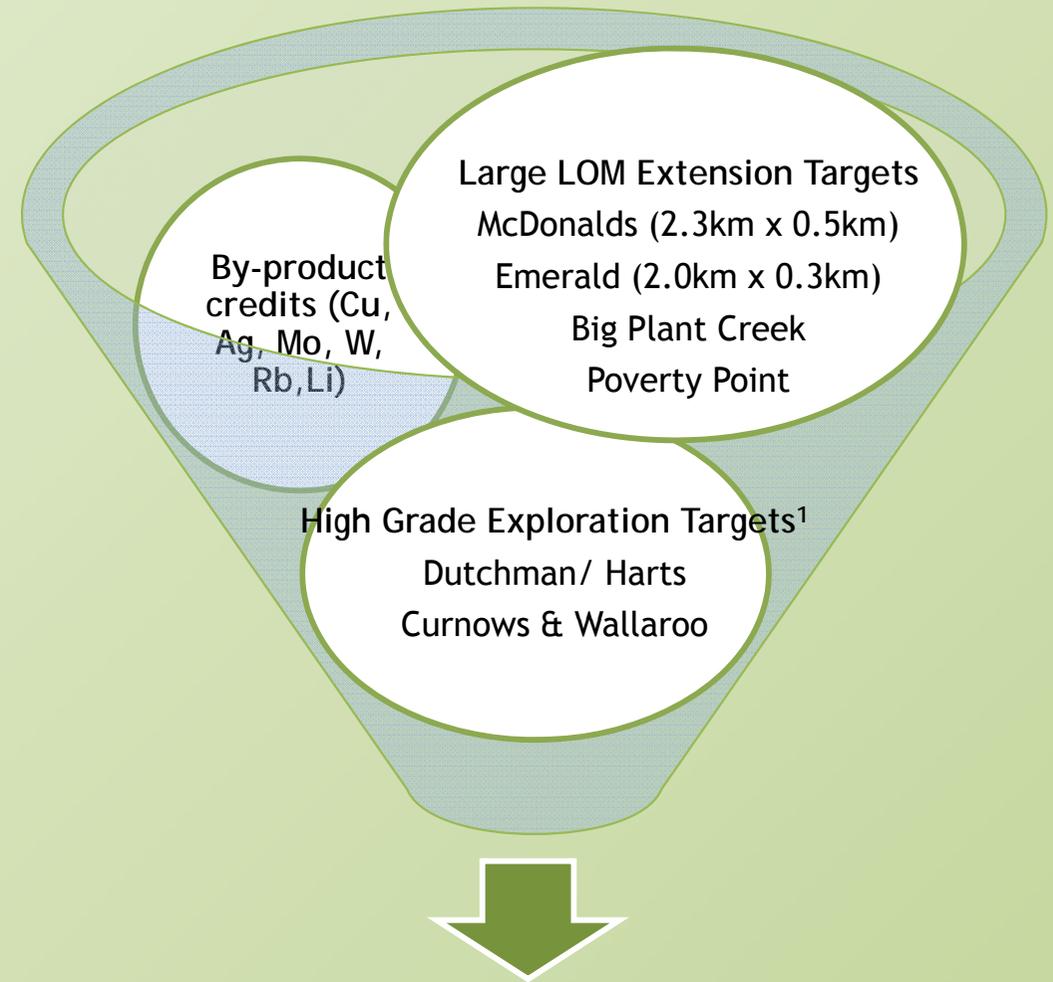
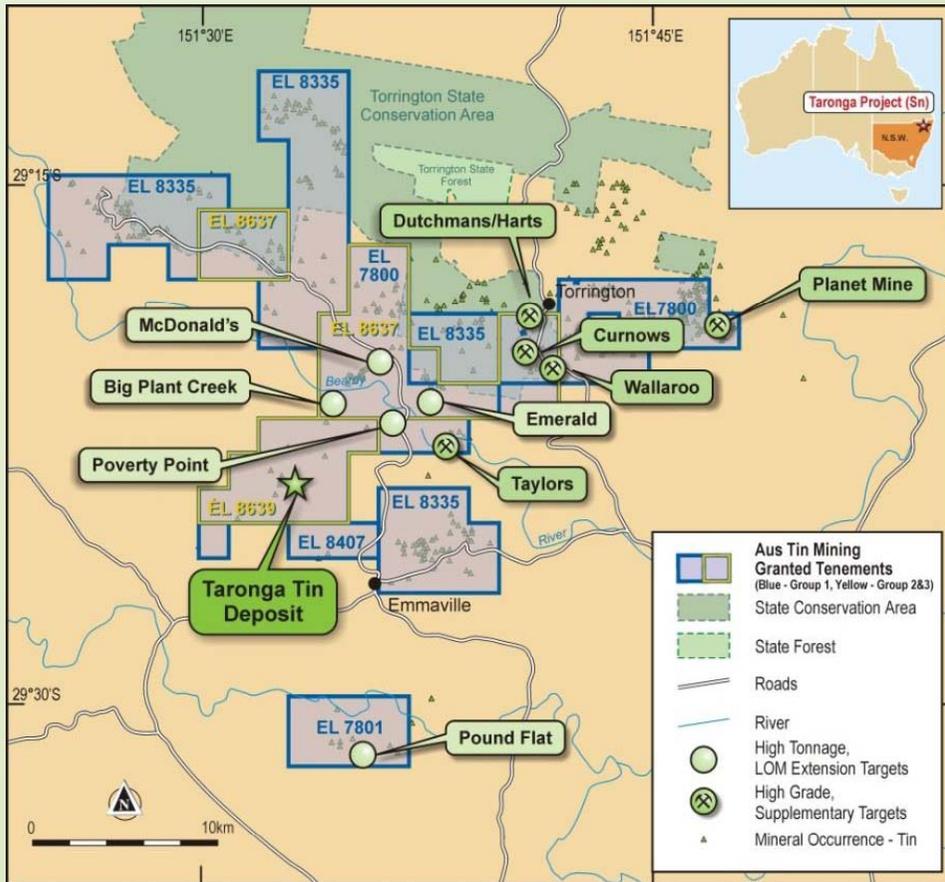


<sup>1</sup> Refer ASX Announcement 26<sup>th</sup> August 2013

<sup>2</sup> Refer ASX Announcement 7<sup>th</sup> April 2014

<sup>3</sup> Refer Appendix - Slide #15

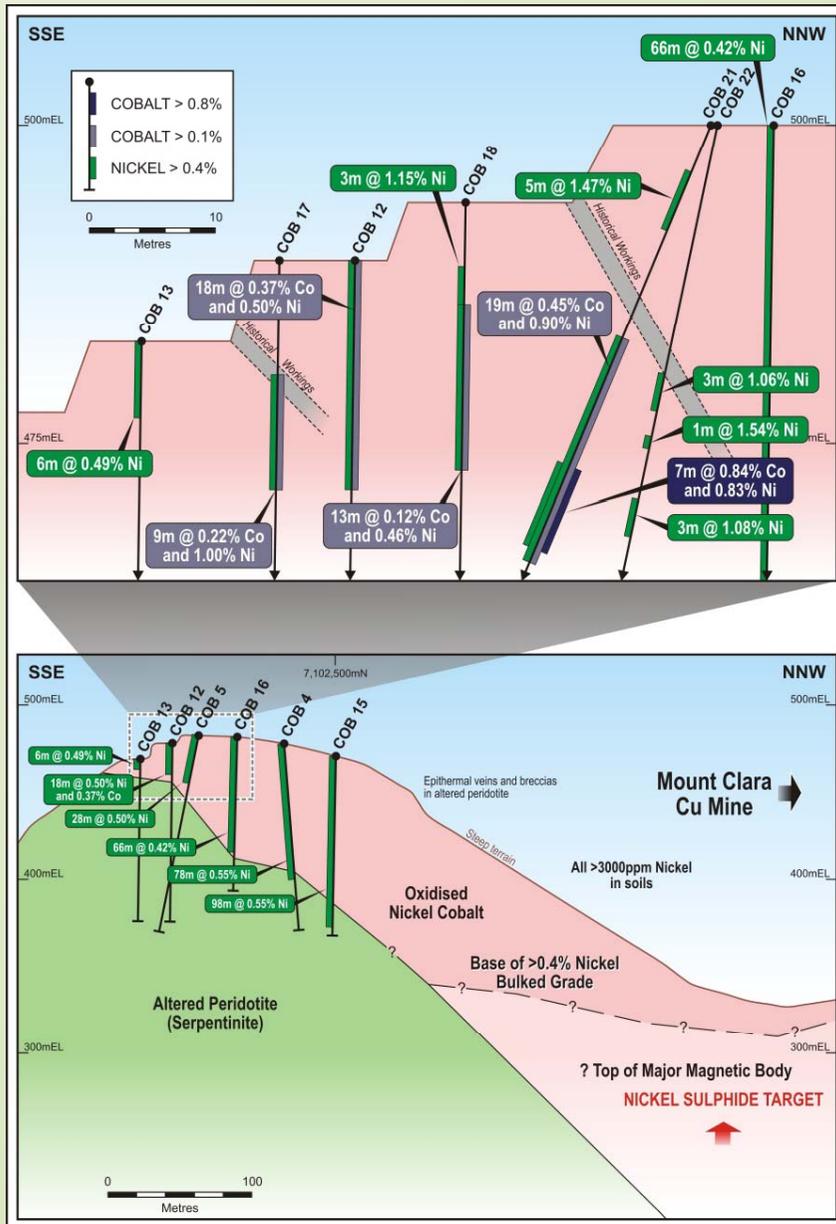
# Centralised Taronga mill could unlock highly prospective Torrington region



<sup>1</sup> Refer ASX Announcement dated 2<sup>nd</sup> September 2017

<sup>2</sup> Refer ASX Announcement dated 26<sup>th</sup> August 2013

# Mt Cobalt (QLD) is a high cobalt grade target and could be the “X-Factor”



Review of historical records includes<sup>1</sup>:

- Historic reports record Smith Mine mining a high grade cobalt lode 7m wide, 25m depth at 7.5%Co, 2.5%Ni, 18%Mn

Recent exploration includes:

- Overall exploration target 800m targeting north-south shear
- Rock chip samples assaying up to 1.66%Co<sup>1</sup>
- Nine hole Reverse Circulation (RC) drill program completed confirming down-dip extensions to historic workings and cross-shears, result including 7m @ 0.84%Co & 0.83%Ni from 29m<sup>2</sup>

<sup>1</sup> Refer ASX Announcement dated 5<sup>th</sup> July 2016;

<sup>2</sup> Refer ASX Announcement dated 23<sup>rd</sup> November 2016

# Targeting to becoming a major Australian tin producer

ACTUAL

2014

- PFS for Taronga; Exploration Target for Torrington

2015

- Stage 1 Development for Taronga; excellent metallurgical test work results
- Maiden drilling @ McDonalds
- Acquisition of Granville

2016

- Funding & recommissioning at Granville
- High grade cobalt drill results at Mt Cobalt

2017  
YTD

- Development Application submitted for Taronga Stage 1
- Granville Expansion (Level 2) approved and first sales

TARGETING

2017  
Nov/Dec

- Seeking approval for Taronga Stage 1 subject to Glen Inness Severn Council
- Planning commencement of Granville Level 2 capital works subject to weather
- Targeting drill program near historic high grade mine subject to weather

2018

- Planning capital works / operations for Taronga Stage 1 subject to approval
- Aiming to commence Level 2 operations at Granville
- Exploration at Granville, Torrington, Mt Cobalt

2019

- Decision for Taronga Full Scale subject to outcomes of Stage 1
- Continuation of Level 2 operations at Granville
- Targeting exploration at Granville, Torrington, Mt Cobalt

# Five reasons to invest in Aus Tin Mining (ASX:ANW)

1. Tin a key metal for the energy revolution
2. Delivering on a production focussed strategy at Granville & Taronga with Granville cash flow funding development and exploration
3. Exciting exploration potential for tin, silver, copper, tungsten & molybdenum at Taronga & Torrington and cobalt & nickel at Mt Cobalt
4. Limited investment options, Aus Tin Mining one of seven producers listed globally
5. Active calendar for next 12 months, including:
  - Approvals and development at Taronga
  - Expansion at Granville with increased sales
  - Active exploration program including Torrington tin and lithium targets and Mt Cobalt

For more details:

Contact: Peter Williams, Chief Executive Officer at +61 7 3303 0611 or [info@austinmining.com.au](mailto:info@austinmining.com.au)

Visit: [www.austinmining.com.au](http://www.austinmining.com.au)

# Supporting Slides

# Major tenement holder in one of Australia's premier tin fields

## History of Emmaville Field

- Mining first commenced in 1870s
- 88,000 tonnes of contained tin reported to have been produced from the Emmaville / Torrington field

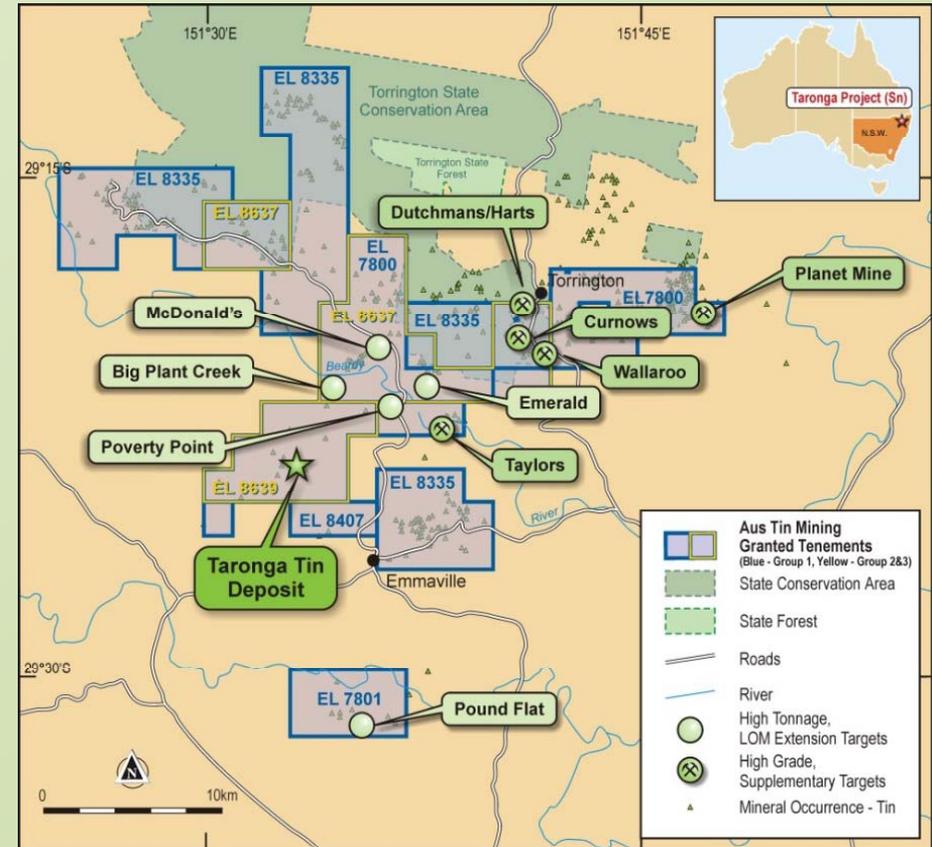
## Highly prospective exploration tenement package

- Approximately 350km<sup>2</sup> package owned 100%
- Circa 300 tin prospects and historic mines identified within Company's exploration licences
- Prospective for tin, copper, silver, tungsten, molybdenum, lithium and rubidium
- Previous exploration undertaken by leading resources companies, including BHP, Newmont, MIM, North Broken Hill

## Conceptual model based on a centralised plant at Taronga treating ore from

- Taronga - Probable Ore Reserves<sup>1</sup> supporting a 9 Year Life of Mine
- High grade supplementary feed (eg Dutchman/Harts)
- Life of Mine extension targets (eg McDonalds)

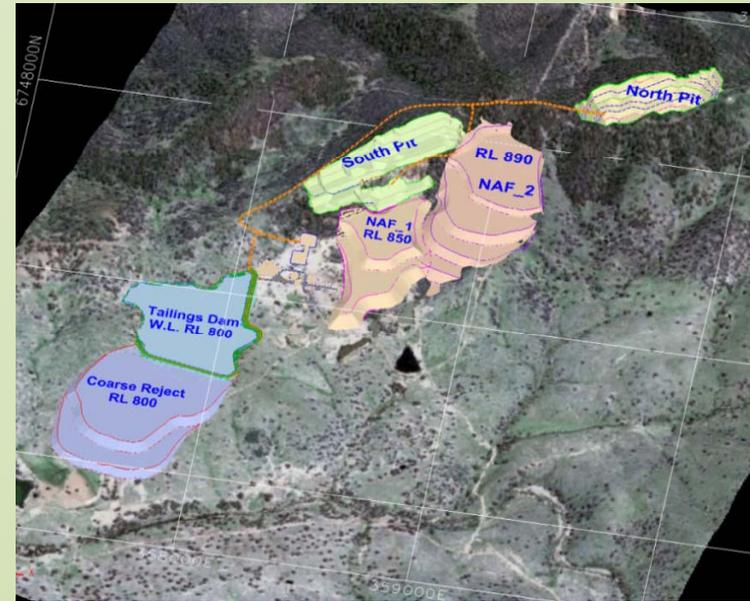
<sup>1</sup>Refer ASX announcement dated 7<sup>th</sup> April 2014



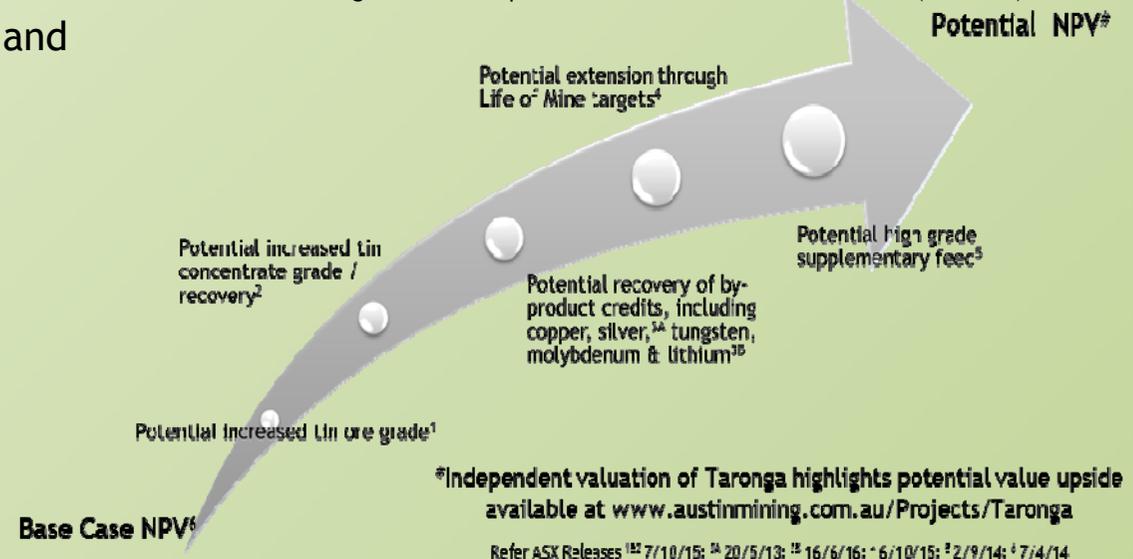
# Taronga provides the springboard towards major production

Taronga Tin Project owned 100% by ANW

- Extensive exploration history, including BHP and Newmont
- Large Mineral Resource of 57,200t contained tin plus 26kt contained copper and 4.4Moz contained silver . Resource open at depth, with historic results including 1m @ 2.6%Sn from 169m and 2m @ 1.0%Sn from 351m<sup>1</sup>
- 2014 Pre-Feasibility Study<sup>2</sup> reported at time of release:
  - Probable Ore Reserves<sup>3</sup> supporting a 9 Year Life of Mine producing 2,800tpa tin in concentrate<sup>2</sup>
  - Technical risk is low with open cut mining and simple metallurgy
  - showed a positive NPV
- Upside identified during PFS, notably
  - Potential increased tin ore grade
  - Potential increased tin recovery
  - Potential recovery of by-product credits



Schematic of Taronga life of mine pit shells and associated infrastructure (PSF 2014)



<sup>1</sup> Refer ASX announcement dated 26<sup>th</sup> November 2012

<sup>2</sup> Refer ASX announcement dated 7<sup>th</sup> April 2014

<sup>3</sup> Ore Reserves, production and cost data have not been updated since the PFS

<sup>#</sup>Independent valuation of Taronga highlights potential value upside available at [www.austinmining.com.au/Projects/Taronga](http://www.austinmining.com.au/Projects/Taronga)

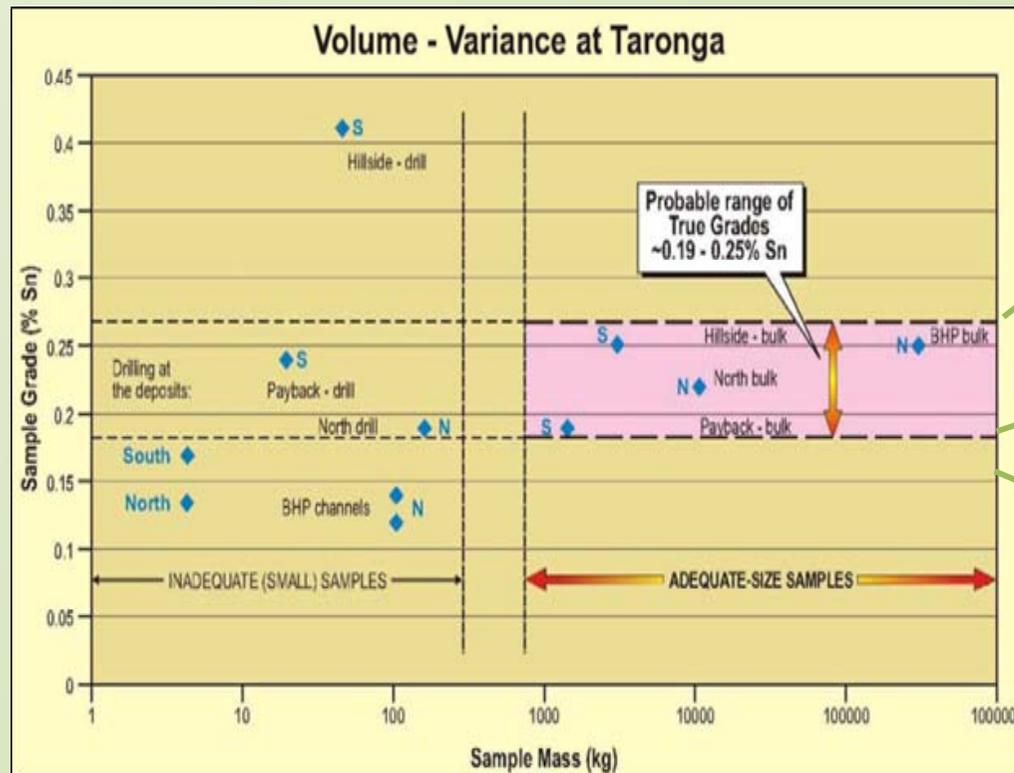
Refer ASX Releases <sup>1A</sup> 7/10/15; <sup>2A</sup> 20/5/13; <sup>3B</sup> 16/6/16; <sup>4</sup> 6/10/15; <sup>5</sup> 2/9/14; <sup>6</sup> 7/4/14

# Demonstrating an increased grade at Taronga would be a game changer

Evidence to suggest the grade could be higher includes

- BHP & Newmont assessed bulk samples (true range 0.19%Sn to 0.25%Sn)
- Positive reconciliation from 2015 drilling (average 0.26%Sn for composite metallurgical sample)
- MiningOne indicate “probable range of true grades ~0.19%Sn to 0.25%Sn”

An increased grade could improve economics dramatically and change funding for larger scale development and hence the importance of the trial mine / Stage 1 Development



At 0.25%Sn payable tin could be 39,800 t generating revenue circa A\$1,072M<sup>1</sup>

At 0.19%Sn payable tin could be 31,000 t generating revenue circa A\$817M<sup>1</sup>

0.16%Sn adopted for 2014 PFS estimated payable tin is 25,400 t generating revenue circa A\$697M<sup>1</sup>

<sup>1</sup> Revenues calculated using tin price US\$21,000/t; AUD:USD 0.78

Source: Taronga Tin Deposit, Mineral Resource Report; MiningOne Pty Ltd; August 2013

# Targeting Taronga Stage 1 Development to be ANW's second tin operation

Taronga Stage 1 Development to test Taronga upside on large scale\*

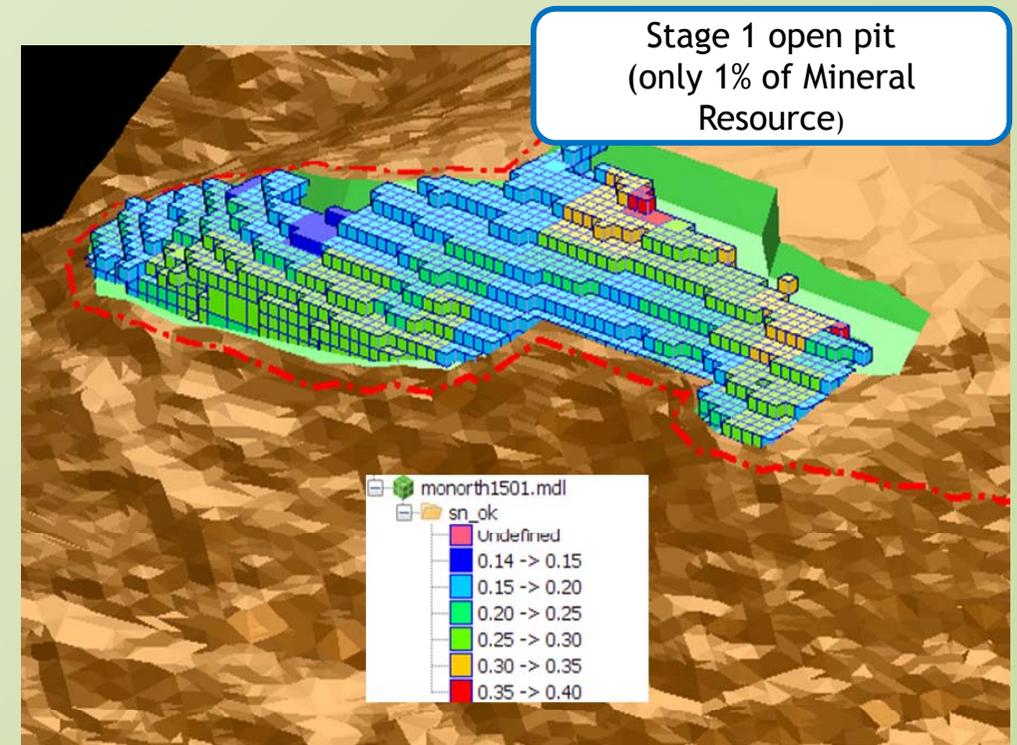
- Proposed trial mine (340kt @ 0.23%Sn)
- On-site processing to produce premium grade concentrate
- Targeting low CAPEX (circa \$2.5M) with opportunity for reduction through surplus Granville equipment

Opportunity to test areas of upside identified during PFS, notably

- Potential increased tin ore grade
- Potential increased tin recovery
- Potential recovery of by-product credits

Progressing the Development Application and may be considered by local council before end of 2017

Subject to approvals, targeting commencement in 2018



Block model showing grade and conceptual pit design at Taronga Tin Project

\* Refer ASX announcement dated 15<sup>th</sup> April 2015

# Significant potential to expand tin inventory with exploration success

## Life of Mine extension targets - eg McDonalds

- Sheeted vein system similar to Taronga but expected to have higher grades as closer to granite
- Geochemistry / gravity / IP works generated a target 2,300m x 500m
- 2015 maiden drilling program confirmed high grade mineralisation up to 5m @ 0.58%Sn from 12m<sup>1</sup>

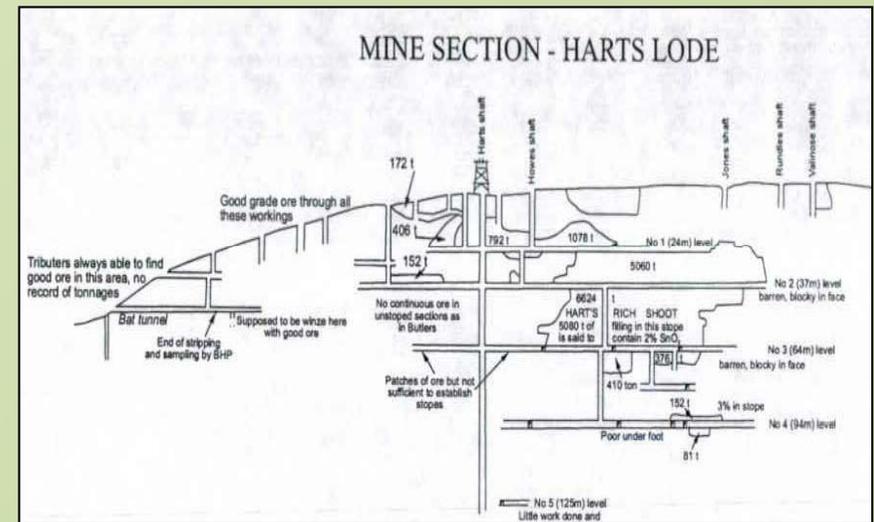
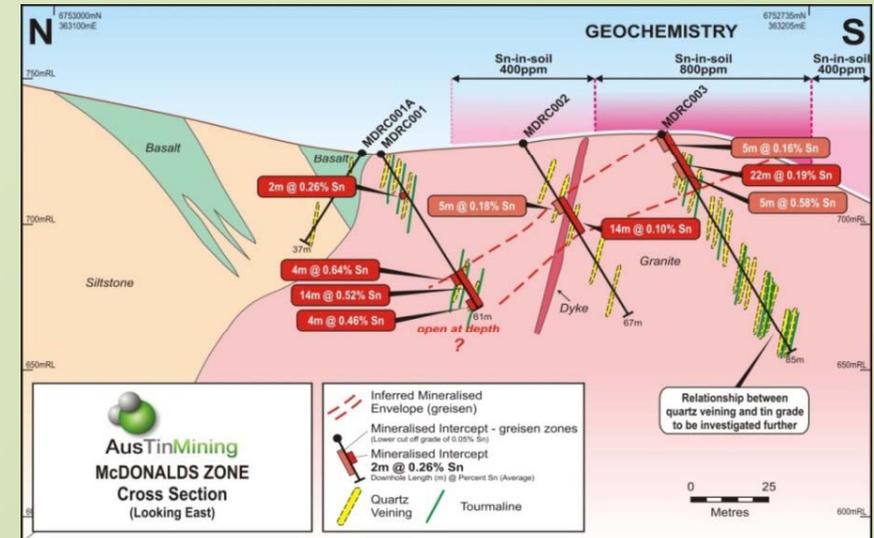
## High grade supplementary feed targets - eg Dutchman/Harts<sup>2</sup>

- Historic underground mine with reported production of grade of 3.5%Sn
- North Broken Hill Pty Ltd completed a feasibility study (1967) concluding operations would be feasible
- 2010 drilling confirmed high grade mineralisation with highest reported results 0.8m @ 3.6%Sn
- Six key high grade targets including historic Dutchman & Harts<sup>2</sup> provide the basis of an Exploration Target of approximately 150kt to 265k at approximately 2.3% to 2.5%Sn<sup>1,3</sup>

<sup>1</sup> Refer ASX announcement dated 6<sup>th</sup> October 2015

<sup>2</sup> Refer ASX announcement 2<sup>nd</sup> September 2014

<sup>3</sup> Exploration Target is conceptual in nature, noting there has been insufficient exploration to estimate a Mineral Resource and that it is uncertain if further exploration will result in the estimation of a Mineral Resource. The Company is planning an exploration program to test the targets over the next 12 months



Historical mine plan prepared by North Broken Hill (circa 1969)

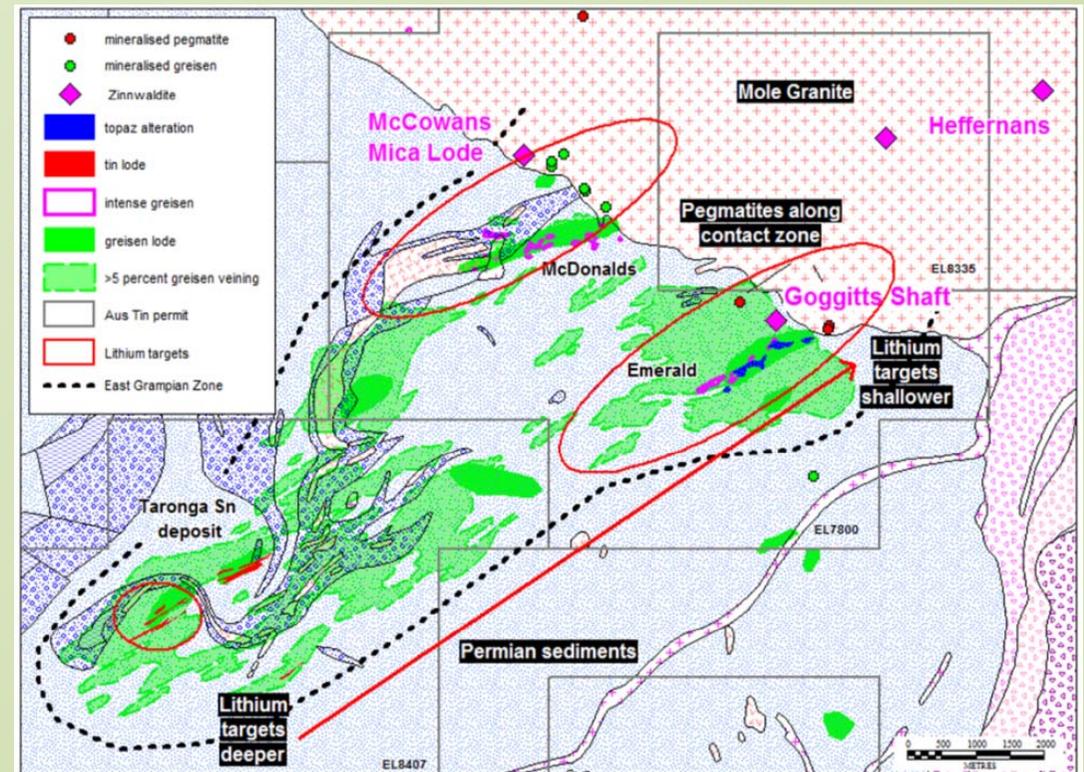
# Upside: Possible lithium production ancillary to proposed tin operations

2016 investigations into lithium potential at Taronga delivered a number of exciting opportunities<sup>1</sup>:

- Lithium mineralisation (zinnwaldite) reported at several locations within Torrington exploration licences (north east of Taronga)
- Pegmatite (lithium) target generated within the Southern Zone of Taronga based on pervasive occurrence of beryl
- Elevated rubidium levels widespread across Taronga
- Group 2 & 3 exploration titles recently granted

Factors to be considered for possible future development

- Mining and bulk of processing costs incurred for recovery of tin, so processing of lithium would only incur incremental costs
- Lithium expected to be associated with mica that can be recovered to a flotation concentrate



Location of historic Zinnwaldite occurrences along strike from Taronga

<sup>1</sup> Refer ASX Announcement dated 16 June 2016

# Transitioning Granville to next stage and beyond

## Granville Expansion

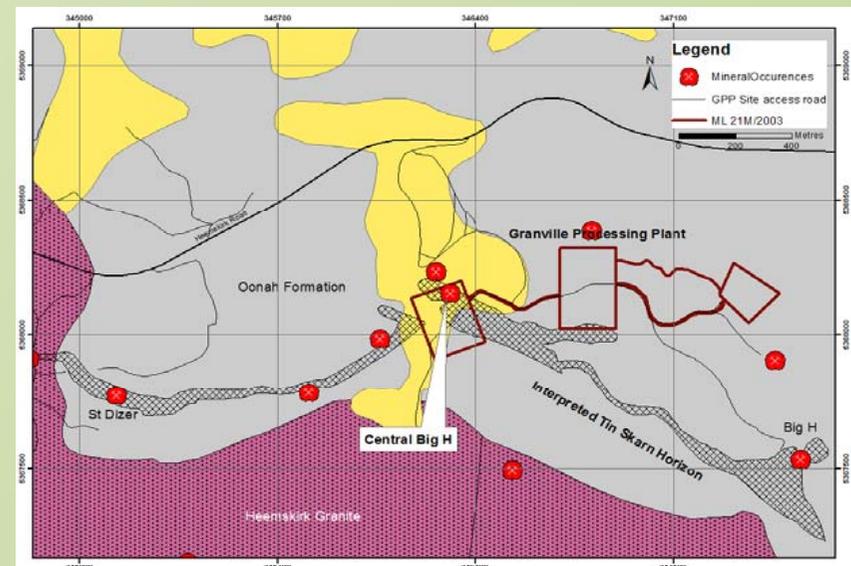
- Approved June 2017 following extensive studies
- Construction of new infrastructure and resumption of mining in high grade open cut expected to commence once ground conditions suitably dry
- Processing rate at existing processing plant to be increased from 2,500tpa to 40,000tpa
- Targeting production of 550tpa tin in concentrate at A\$15,600/t - equates to approx. A\$10,000/t margin at current tin price<sup>1</sup>



Topographical overview of existing Granville East Mine with proposed east wall cutback superimposed

## Granville provide a base to explore and evaluate opportunities in Tasmania

- Closest target is Central Big H (tin skarn) located within existing mining lease and @ 450m from processing plant
- Over 100 tin prospects identified within 25km of processing plant



Central Big H magnetite/tin exploration target

<sup>1</sup> Refer ASX Release Refer ASX Release 29<sup>th</sup> June 2017