



ASX Release: 29 July 2016

Quarterly Activities Report - Period Ended 30 June 2016

Aus Tin Mining Ltd
("the Company")

ASX CODE: ANW

At Time of Publication

Shares on Issue
1,439 million

Unlisted Options
314 million (@ \$0.02)

Market Capitalisation
\$14M (at \$0.01)

DIRECTORS

Brian Moller (Chairman)
Nick Mather
John Bovard
Richard Willson

CHIEF EXECUTIVE OFFICER

Peter Williams

COMPANY SECRETARY

Karl Schlobohm

CONTACT DETAILS

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HIGHLIGHTS

- **Commissioning commenced at Granville Tin Project**
- **Lithium minerals identified at Taronga & Torrington Tin Projects**
- **High grade cobalt results and new target south of Mt Cobalt**

REVIEW OF ACTIVITIES

Granville Tin Project

During the quarter the Company commenced re-commissioning sections of the Granville Processing Plant as part of the resumption of Level 1 operations. A quantity of tin concentrate assaying 55%Sn has been produced with samples dispatched to Traxys for smelter verification.

During the quarter, the Company also submitted the draft Development Proposal and Environmental Management Plan (DPEMP) for the proposed Level 2 operation (Granville Expansion) to EPA Tasmania for review.

Taronga / Torrington Tin Project

During the quarter the Company undertook a program of work that identified lithium mineralisation at Torrington north-east of Taronga, including previously reported zinnwaldite (lithium mica) at several locations occurring at the contact with the Mole Granite. Separately a pegmatite target has been generated within the Southern Zone of the Taronga Tin Deposit based on the pervasive occurrence of beryl.

The Company also reported elevated rubidium levels for the Taronga Tin Deposit.

Mt Cobalt

Subsequent to the end of the quarter the Company announced a new high grade cobalt target centred on historic workings south of Mt Cobalt that are reported to have had a lode grade of 7.5%Co, 2.5%Ni. Rock chip samples collected by the Company assayed up to 1.66%Co.

Corporate

During the quarter the Company secured sufficient working capital to fund the resumption of Level 1 operations at Granville. It is anticipated Granville Tin Project will generate a positive cashflow during the September quarter.

JUNE QUARTER 2016 ACTIVITIES

Granville Tin Project (Tasmania)

The Company has commenced re-commissioning sections of the Granville Processing Plant, most recently completing the commissioning of the dressing circuit comprising magnetic separators, sizing screens, flotation cells and dressing table. A quantity of tailings material grading between 0.8%Sn and 3.3%Sn has been recovered from the existing tailings storage facility and stockpiled ready for processing. A quantity of tin concentrate assaying 55%Sn has been produced by the Company with samples dispatched to Traxys for smelter verification.



Figures 1A & 1B – Commissioning the magnetic separator and sizing screen & flotation cells



Figures 1C & 1D – Commissioning the dressing table and final 55%Sn concentrate (dried)



Figures 1E – Final tin concentrate and filling concentrate bag #1

Whilst gold had not previously been identified at the Granville Tin Project, both the tin concentrate and sulphide concentrates contained significant levels of gold (48g/t and 132g/t respectively)¹. Free, visible gold was noted in the tin concentrate and may be recoverable to a separate concentrate. Further work will be undertaken to ascertain the source and extent of the gold in the ore and its recoverability.

¹ Assay results from Granville pilot plant trial, May 2016.

The Company is also seeking to expand the scale of the Granville Tin Project to a Level 2 operation and resume mining at the open pit (collectively the **Granville Expansion**). During the quarter Company submitted the draft Development Proposal and Environmental Management Plan (DPEMP) for the Granville Expansion to EPA Tasmania for review, prior to the public exhibition period.

Taronga Tin Project (NSW)

During the quarter, the Company announced that it had at least three locations where historic mining activities coincide with the reported presence of the lithium bearing mica mineral, zinnwaldite. Zinnwaldite is reported as having been identified at three historic mines (McCowans Mica Lode, Goggitts Shaft and Heffernans Mine – refer **Figure 2A**). Zinnwaldite is a lithium silicate mineral in the mica group and occurs in greisens, pegmatites and quartz veins, and is commonly associated with topaz, cassiterite (tin mineral), wolframite (tungsten mineral) and beryl, all of which are known in the Taronga area and to the north in the Torrington area.

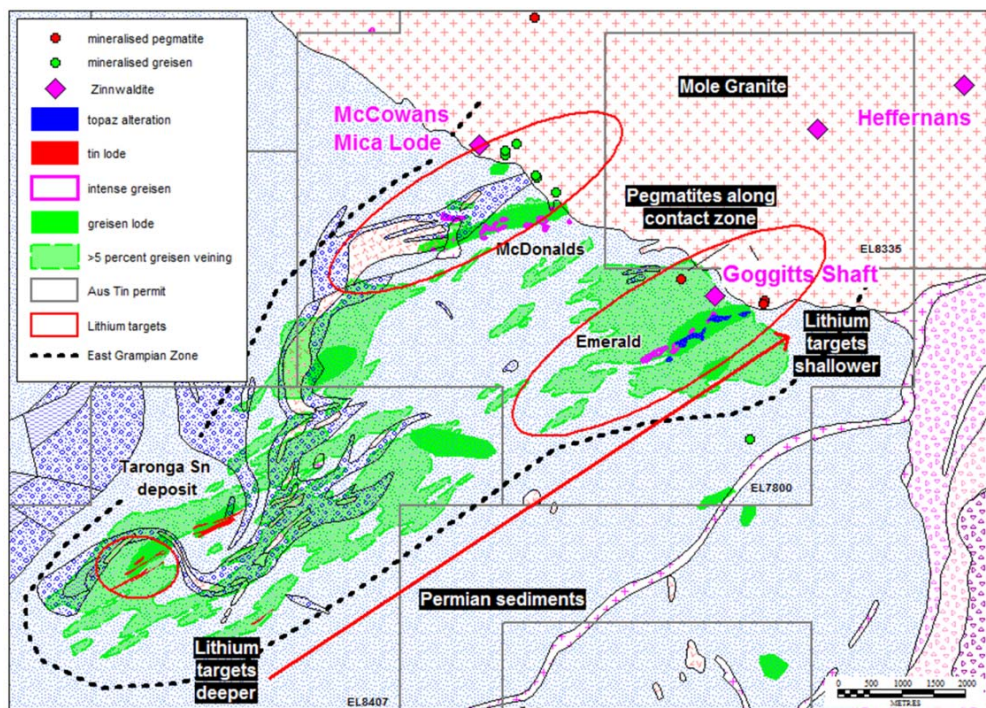


Figure 2A – Location of historic Zinnwaldite occurrences along strike from Taronga Tin Project.

The Company also announced that it considers Taronga prospective for lithium based on a significant level of muscovite in the deposit, the presence of beryl and anomalous lithium results of up to 540ppm, coupled with the presence of zinnwaldite at McCowans Mica Lode and Goggitts (Taronga, McCowans and Goggitts are all located within the East Grampians Structural Corridor). It is thought at Taronga that zinnwaldite and possibly lepidolite may be associated with the muscovite that forms within the mica selvage beside quartz veins containing cassiterite (tin mineral). Of particular interest is a section of the Southern Zone (**Figures 2B & 2C**) where significant levels of beryl logged by a previous operator² may be an indication of pegmatite, and will be a focus for future exploration.

² Newmont Holdings Pty Ltd on behalf of the Newmont Joint Venture, 1977 - 1984

Beryl and lithium pegmatites are well documented at a number of mining locations around the world, including both Wodgina and Greenbushes in Western Australia.

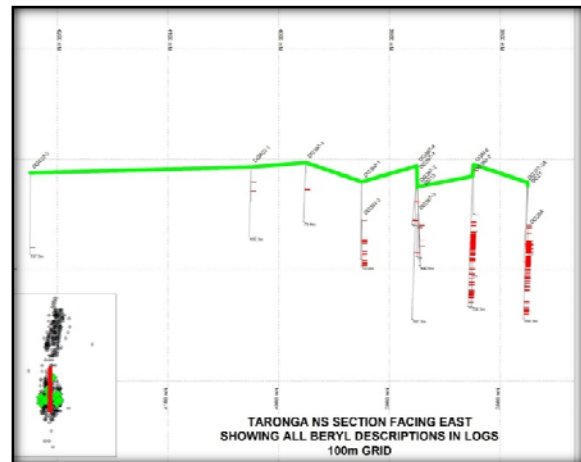
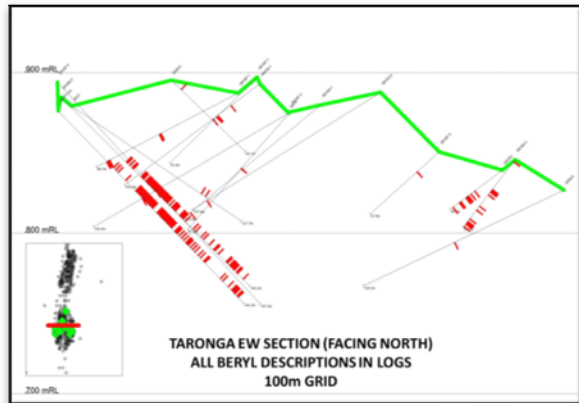


Figure 2B –Pegmatite (lithium) target at Taronga Deposit based on logged beryl occurrences (cross section).

Figure 2C –Pegmatite (lithium) target at Taronga Deposit based on logged beryl occurrences (long section).

The Company also considers that Taronga may be prospective for the specialty metal rubidium (Rb) based on anomalous rubidium results of up to 920ppm from previous drill hole results. Rubidium is also considered to be associated with the muscovite and is considered to indicate a geochemical environment in which lithium may also concentrate. The global consumption of rubidium is currently very limited but its photo-emissive properties make it ideal for motion sensor devices and photoelectric cells (solar panels). Rubidium is a high value metal with a current reported price³ of US\$1,472/100gm. Rubidium is mostly recovered as a by-product from the extraction of cesium and lithium and global resources are estimated at 80,000 tonnes of which 15 percent is in Canada and 75 percent in Africa.

Neither lithium nor rubidium have yet been identified as potential by-product credits at the Taronga Tin Project, and the Company intends to investigate the presence, grade and recoverability of a lithium/rubidium enriched mica concentrate in conjunction with mining of the tin resource (Indicated Resource of 36.3Mt @ 0.16%Sn, 0.07%Cu, 3.8g/tAg). The Company's investigations will focus on known mica and beryl rich zones in the Taronga deposit and deep greisen and pegmatite zones targeted beneath Taronga. Mineralogical analysis completed by a previous operator¹ estimated the overall deposit to contain 12 percent muscovite, as well as contained topaz, fluorite and tourmaline.

Kildanga Project (Qld)

Subsequent to the end of the quarter, the Company announced that it had identified a new cobalt target south of Mt Cobalt centred on a recently identified historic mine, this new zone extending the overall cobalt target to approximately 800m in length. Rock chip samples taken from within the target area assayed up to 1.66%Co. The Company intends to pursue an exploration program at the target area and assess the feasibility of mining and beneficiation.

Mt Cobalt is situated within EPM 19366 (100% held by Aus Tin Mining) and was historically the centre of mining for high grade, cobalt-manganese rich mineral asbolite (asbolite is also mined in the Democratic Republic of Congo, New Caledonia and Zambia).

³ Source USGS Mineral Commodities Series (2016)

Historical records for the Smith mine (approximately 200m south of Mt Cobalt itself) report mining a lode approximately 7m in true width to a depth of 25m with a grade of 7.5%Co, 2.5% Ni and 18%Mn⁴. For comparison, typical economic grades reported for cobalt deposits range from 0.1 to 0.15 percent⁵.

Previous exploration undertaken at Mt Cobalt (from 2007 to 2010) focussed on the extensive nickel mineralisation (garnieritic-saprolite) beneath the laterite on Mt Cobalt itself. Whilst secondary cobalt mineralisation is associated with garnierite (a nickel oxide which is distributed broadly at grades of approximately 0.5% nickel), little exploration has been undertaken on the primary asbolite cobalt mineralisation. Until recently, no exploration had been undertaken at the historic Smith high grade cobalt mine south of Mt Cobalt.

Field reconnaissance was undertaken in June 2016 proximate to the historic Smith workings and beyond the southern extent of previous drilling / rock chip sampling at Mt Cobalt. Mapping of the north-south trending mineralised shear zone along strike from the historic Smith workings has generated a new overall target of approximately 800m in total length (Figure 3A). Cobalt grades of up to 1.66%Co were obtained from rock chip samples taken within the overall target.

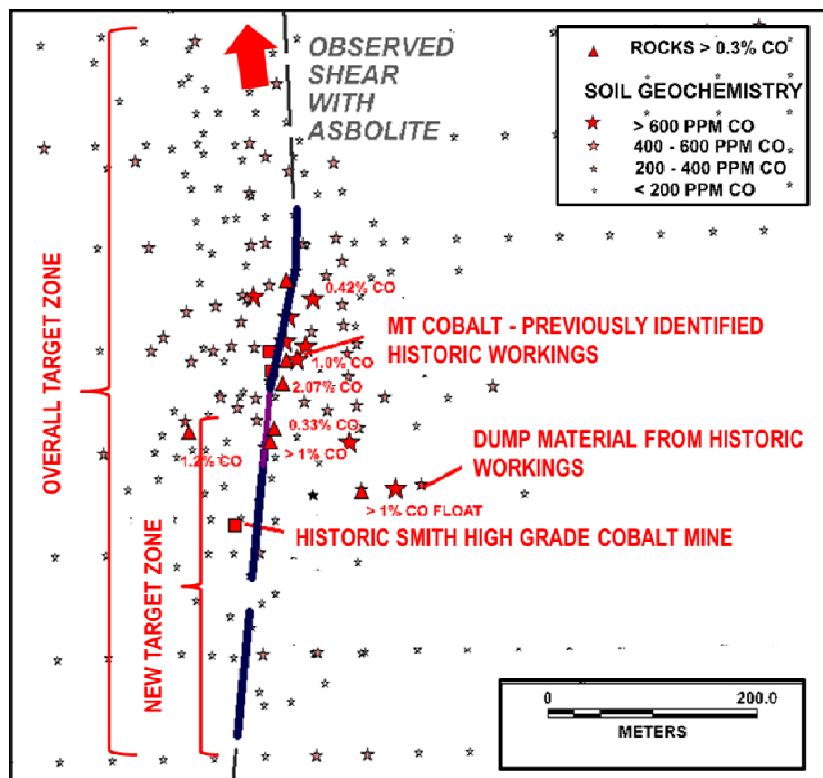


Figure 3A – Target Zone at Mt Cobalt (40km west of Gympie, QLD)

⁴ Source - Report on a Cobalt Lode at the Black Snake near Kilkivan; WH Rands; 1887

⁵ Source – Cobalt; British Geological Society; 2009



Figure 3B Shear zones at Mt Cobalt, with intersection at one site of historic workings

During follow-up field work the Company observed the location of historic workings at the intersection of two shear zones, being the cobalt enriched master-shear, and the nickel rich garnierite shear (Figure 3B). The shears are also observed at various locations where tracks have been established so the Company intend to prepare a number of new tracks within the new target zone from which to undertake mapping.

Corporate

During the quarter the Company secured sufficient working capital to fund the resumption of Level 1 operations at Granville, and has been actively recommissioning the processing plant. Accordingly, it is anticipated Granville Tin Project will generate a positive cashflow during the September quarter.

Tenement Management

The Company's interest in tenements for the quarter is outlined in the attached Appendix 1.



On behalf of the Board
 KM Schlobohm
 Company Secretary



Competent Persons Statement

The information in this presentation that relates to 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 26th August 2013 and is available to view on 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 7th April 2014 and is available to view on 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.

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Electronic copies and more information are available on the Company website: www.austinmining.com.au

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Appendix: 1 Details of Exploration Tenements Held by Aus Tin Mining Limited

Mining Leases /Exploration Licences held at 30 June 2016

Tenement	Location	% Interest	Grant Date	Renewal Submitted	Expiry Date
21M/2003	TAS (Zeehan)	100%			05.03.17
9M/2006	TAS (Zeehan)	100%			05.03.17
EPM 19366	QLD (Kilkivan)	100%	09.08.12		08.08.17
EL 50/2011	TAS (Waratah)	100%	21.05.12		20.05.17
EL 8407	NSW (Emmaville)	100%	29.05.09		04.11.18
EL 7800	NSW (Emmaville)	100%	23.03.11	30.06.15	
EL 7801	NSW (Emmaville)	100%	23.03.11		04.07.18
EL 8335	NSW (Emmaville)	100%	05.01.15		05.01.18

Exploration Licences acquired during the period

Tenement	Location	% Interest	Grant Date	Application Date	Expiry Date
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Exploration Licences surrendered during the period

Tenement	Location	% Interest	Grant Date	Surrender Date	Expiry Date
EPM 17768	QLD (Marlborough)	100%	18.12.13	08.04.16	17.12.16

Exploration Licences Applications submitted during the period

Tenement	Location	% Interest	Grant Date	Application Date	Expiry Date
ELA5503	NSW (Emmaville)	100%		15.06.16	
ELA5504	NSW (Emmaville)	100%		15.06.16	