



# TODD RIVER RESOURCES

ASX Code: TRT



## Company Presentation

Unlocking the value of a commanding base metals portfolio in the Northern Territory

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## COMPETENT PERSON'S STATEMENTS

- The information in this announcement that relates to Exploration Results, subsequent to the Prospectus (slide 23 only) is based on, and fairly represents, information and supporting documentation compiled by Exploration Manager Mr Kim Grey B.Sc. and M. Econ. Geol. Mr Grey is a member of the Australian Institute of Geoscientists, and an employee of Todd River Resources Limited. Mr Grey has sufficient experience relevant to the style of mineralisation and type of deposit under consideration 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, Mineral Resources and Ore Reserves'. Mr Grey consents to the inclusion in the report of the matters based on his information in the form and context in which it appear.
- The information in this announcement that relates to all other Exploration Results is extracted from the Prospectus lodged on 31 January 2017, which is available to view at [www.trtld.com.au](http://www.trtld.com.au) and [www.asx.com.au](http://www.asx.com.au). The Company confirms that it is not aware of any new information or data (except as outlined on slide 23) that materially affects the information included in the Prospectus. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the Prospectus.
- The information in this announcement that relates to the estimation and reporting of the Sandy Creek Mineral Resource is extracted from the Independent Geologists Report included in the Prospectus lodged on 31 January 2017 and the Supplementary Prospectus lodged on 10 February 2017 which are available to view at [www.trtld.com.au](http://www.trtld.com.au) and [www.asx.com.au](http://www.asx.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the Independent Geologists Report included in the Prospectus and Supplementary Prospectus and that all material assumptions and technical parameters underpinning the Mineral Resource estimate in the Independent Geologists Report included in the Prospectus and Supplementary Prospectus 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 Independent Geologists Report included in the Prospectus and Supplementary Prospectus.





***Unlocking the value of a commanding base metals portfolio***





- Strategic objective to become a leading Australian zinc and copper explorer and developer
- Former subsidiary of ASX-listed TNG Ltd (ASX: TNG)
- Largest base metal exploration portfolio in the Northern Territory
- Extensive zinc-lead inventory with development potential at Manbarrum Zinc Project\*
- Emerging copper-zinc prospects at Mt Hardy and McArthur River\*
- Possible IOCG at Stokes Yard\*
- Exceptionally well positioned to capitalise on looming zinc supply deficit – one of the few pure ASX-listed zinc-focused explorers



\* Full details (including those required under the 2012 JORC Code) are contained in the prospectus lodged with ASIC on 31 January 2017 and the supplementary prospectus lodged with ASIC on 10 February 2017 (together, the Prospectus)

# Corporate Overview



## Board of Directors

### Edward Fry – Non-Executive Chairman

Mr Fry has extensive experience within the Australian resource sector and is a specialist in Indigenous and Native Title issues. He is also Chairman of the IBA and ILC

### Paul Burton – Technical Director, Non-Executive

Highly experienced Exploration Geologist/Geochemist with over 25 years' experience in Exploration and Mining, Managing Director of TNG

### Stuart Crow – Non-Executive Director

Over 28 years' experience in all aspects of corporate finance, stockbroking and investor relations in Australia and international markets

### Rex Turkington – Non-Executive Director

Corporate advisor and economist who has worked extensively in financial services in Australia, specialising in the exploration and mining sectors

## Key Corporate and Financial Data

ASX code:	TRT
Market capitalisation (at 15c):	\$12M
Shares on issue:	84M
Cash (at 15 April 2017):	\$6M

## Major Shareholders

TNG	8%
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***A valuable portfolio of projects***



# The Northern Territory



- One of the most prospective geological regions in Australia
- Home to one of the largest zinc mines in the world
- Base metal exploration has declined since Global Financial Crisis – a huge opportunity for new explorers
- Backed by a supportive Government for resource development
- North Australian Infrastructure Fund
- US\$20B INPEX-operated Ichthys LNG Project developing massive state-of-the-art onshore processing facilities near Darwin



# Project Portfolio\*



## Soldiers Creek

- Prospective for lithium, tin and tantalum, as well as other pegmatite-hosted and greissen related elements and minerals

## Manbarrum

- MVT Zn-Pb-Ag
- +22Mt of JORC estimated resources\*
- Near-term development opportunity

## Goddards

- Copper Prospect

## Walabanba

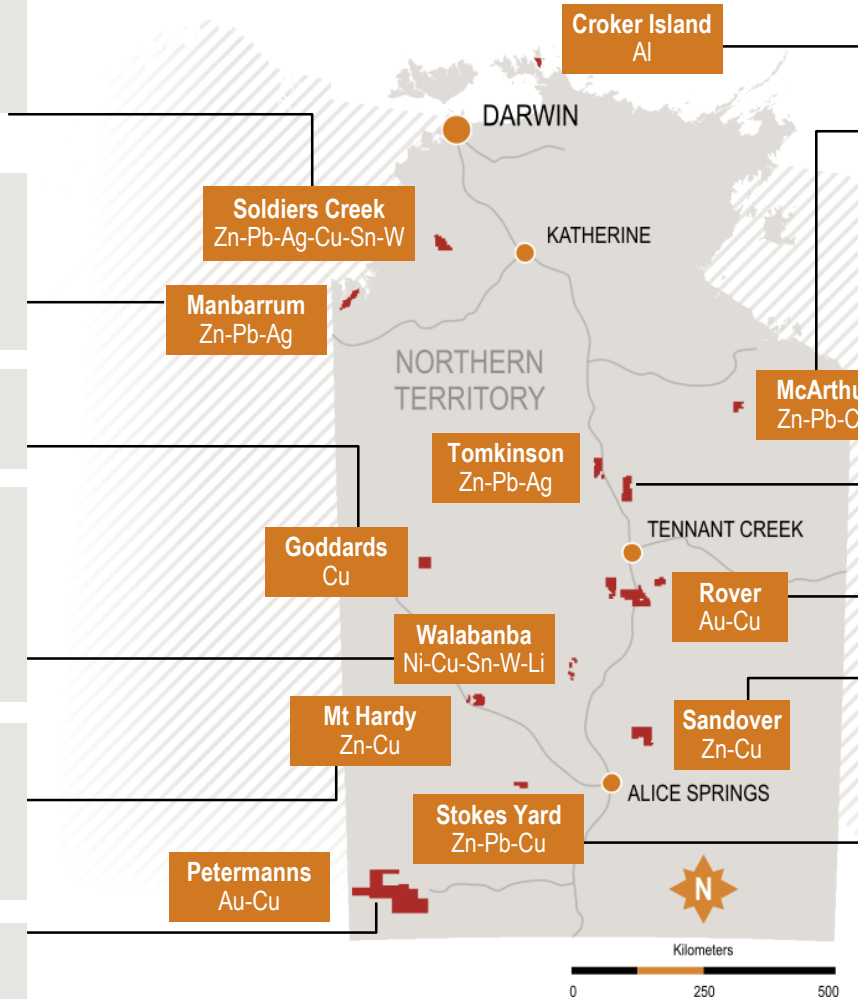
- Four drill-ready base metal targets outlined by HELITEM and ground EM surveys
- Anningie pegmatite Li-Sn-W
- Anningie Tin field

## Mt Hardy

- 17 EM targets, 7 drilled
- Significant thick intersections of Copper and Zinc
- Drill ready targets

## Petermanns

- Prospective for gold, uranium, copper, nickel and base metals



## Croker Island – Awaiting grant

- Prospective for bauxite and diamonds

## McArthur

- 2.5km Zinc-Lead-Copper surface anomalous zone
- 48% copper
- Drill ready targets

## Tomkinson

- Newly recognised province prospective for SEDEX-style base metals (Zn-Pb-Cu-Ag) similar to McArthur river

## Rover

- Tennant Creek style high grade Au-Cu targets
- Prospective for gold, copper, bismuth and base metals

## Sandover

- Located in highly-prospective Irindina Province
- Prospective for base metals, gold, rare earth and uranium

## Stokes Yard

- Historical sampling results of up to 27.5% Zn, 7.5% Cu, 12.2% Pb and 130ppm Ag
- Near recent greenfields discovery at Bumblebee (ABM Resources/ Independence Group)

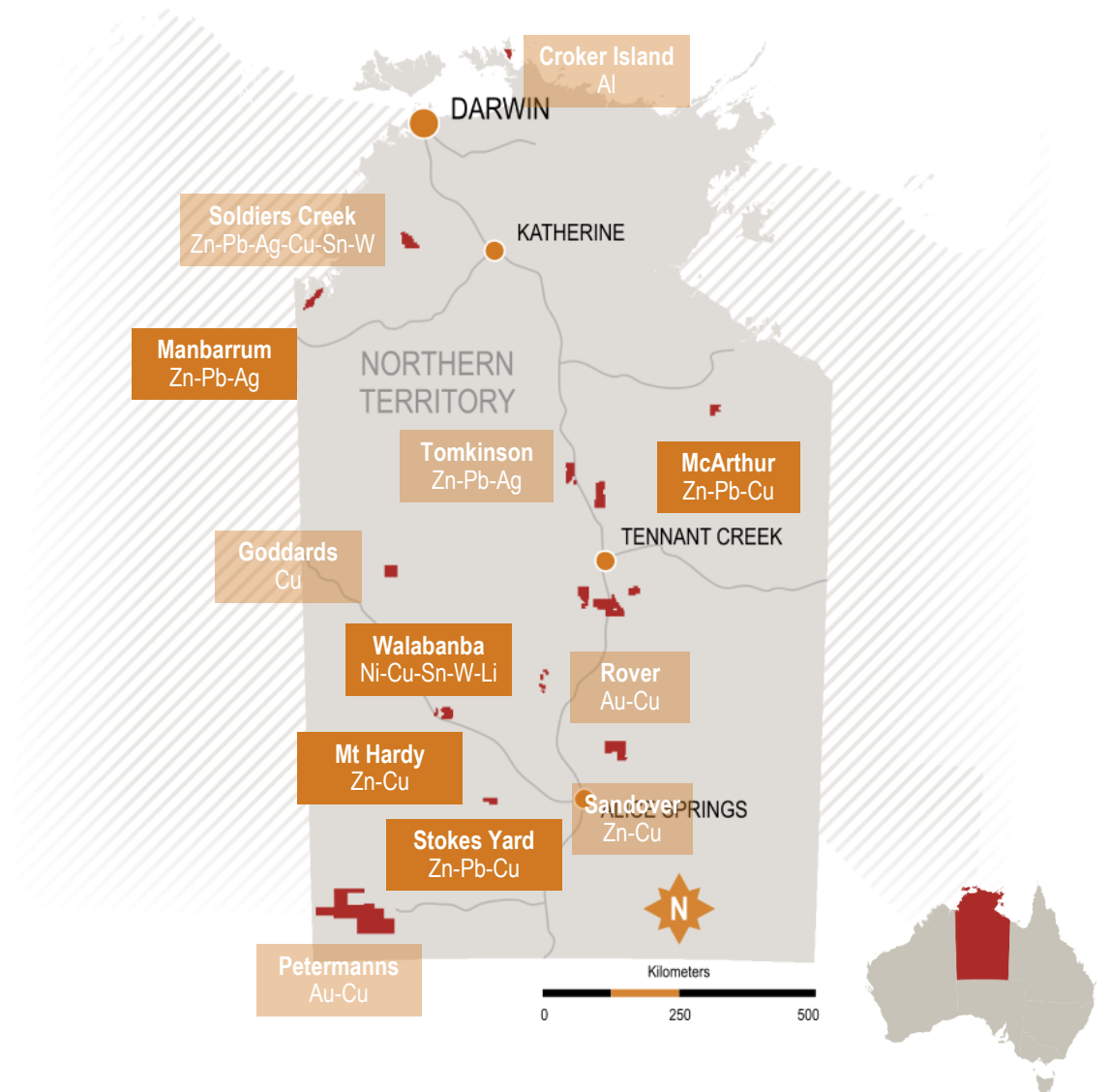
\* Indicated 5.1Mt @ 1.94% Zn, 0.82% Pb and 5.82g/t Ag and inferred 17.4Mt @ 1.77% Zn, 0.33% Pb and 4.19g/t Ag. Full details (including those required under the 2012 JORC Code) are contained in the Prospectus



# Key Projects



- **Manbarrum:** Zinc-Lead-Silver  
*+22Mt of JORC estimated combined zinc-lead-silver mineralization\**
- **Mount Hardy:** Zinc-Copper  
*Thick zones of high-grade copper and zinc mineralisation intersected in multiple EM and IP targets*
- **McArthur River:** Lead-Zinc-Silver  
*25km zinc-lead-silver-copper anomalous zone, with surface grades of up to 48% copper\*\**
- **Walabanba:**  
*Contains historic Anningie tin field; plus walk up EM bulls eye targets highly prospective for “DeGrussa” style copper*
- **Stokes Yard:**  
*Contains historic workings; grades up to 26% Zn, 35.8% Pb, 7.5% Cu, and 130g/t Ag\*\**



\*Indicated 5.1Mt @ 1.94% Zn, 0.82% Pb and 5.82g/t Ag and inferred 17.4Mt @ 1.77% Zn, 0.33% Pb and 4.19g/t Ag. Full details (including those required under the 2012 JORC Code) are contained in the Prospectus

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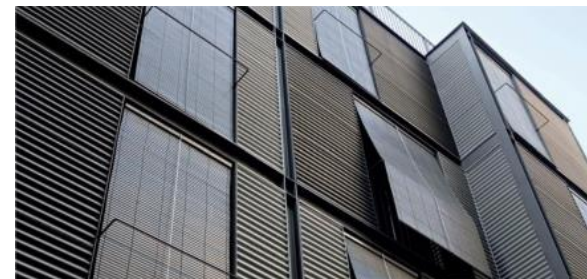
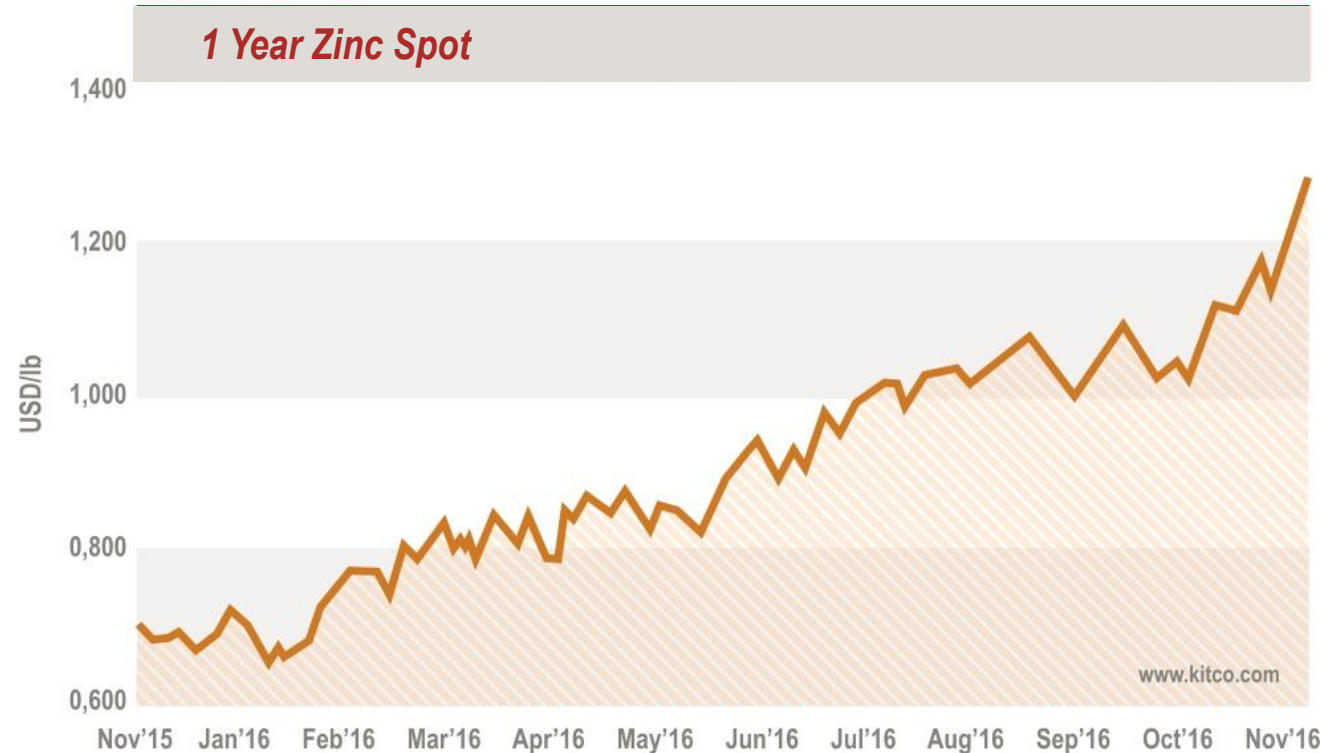
## ***Why Zinc and Copper focus?***



# Zinc – An Outstanding Market Outlook



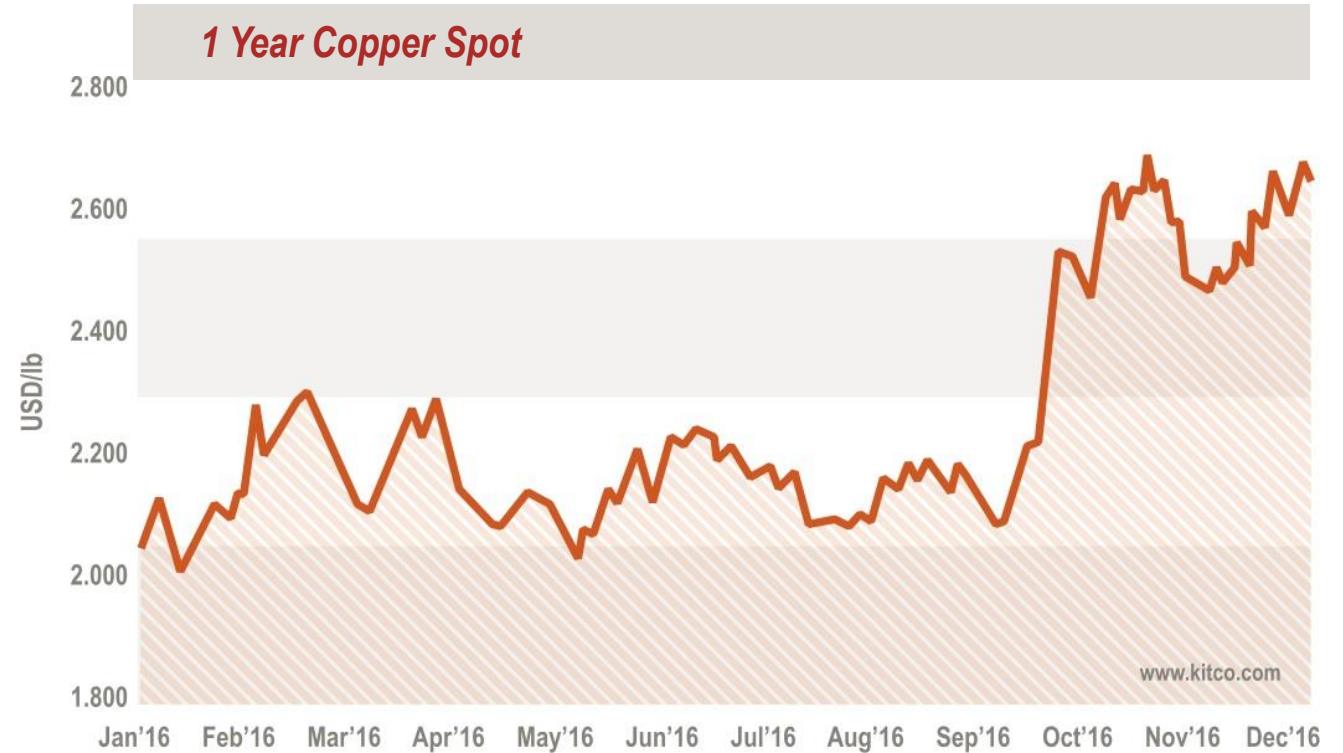
- Zinc moving into a period of supply deficit as several major mines cease production
- Low commodity prices have led to a drought in exploration expenditure – very few new projects coming on stream
- The best performing commodity of 2016
- Major infrastructure announcements from Chinese and US governments signal increase in demand over the next decade



# Copper – An Outstanding Market Outlook



- Further urbanisation and industrialisation in emerging markets including China and India, expected to continue to increase copper usage intensity
- 25% price increase in 2016, combined with strong US\$ have significantly improved the economics of copper exploration projects in Australia







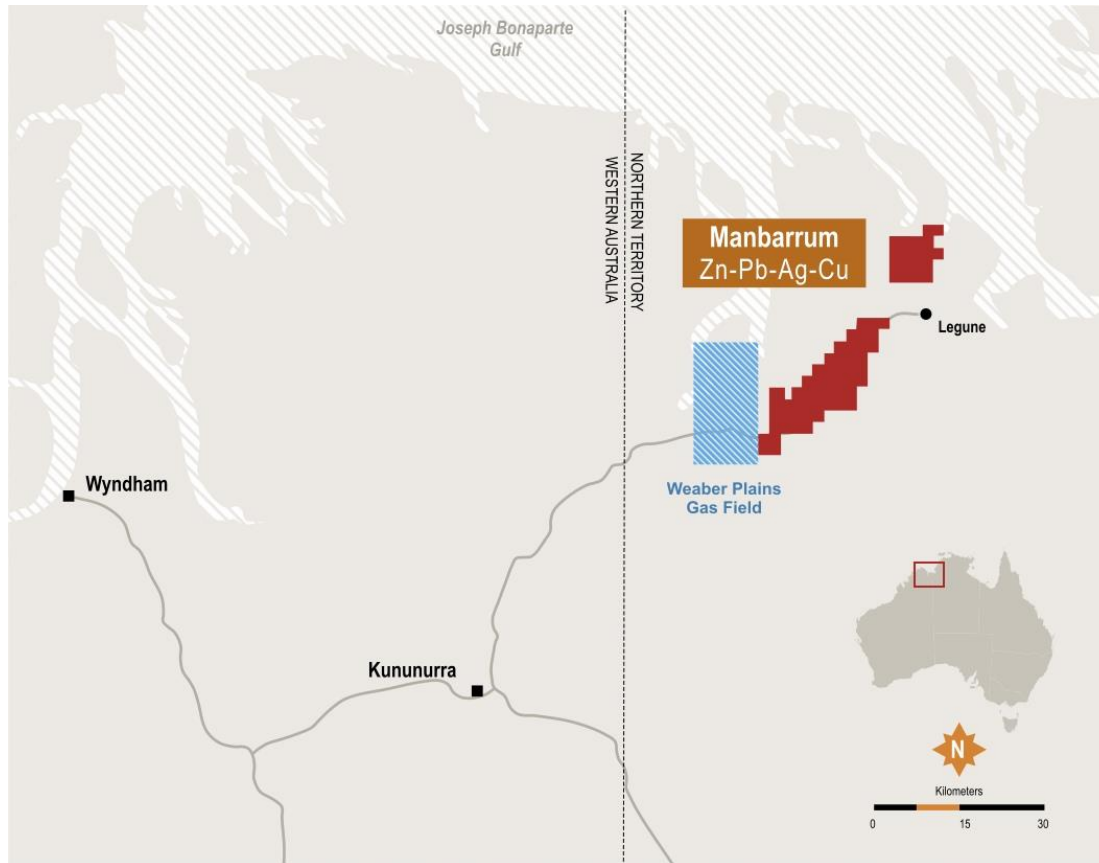
## ***Manbarrum Zinc Project***



# Manbarrum Project: Location and Infrastructure



- Excellent existing infrastructure
- Bitumen road to border
- Kununurra – 80km by road
- Wyndham Port – 150km by road

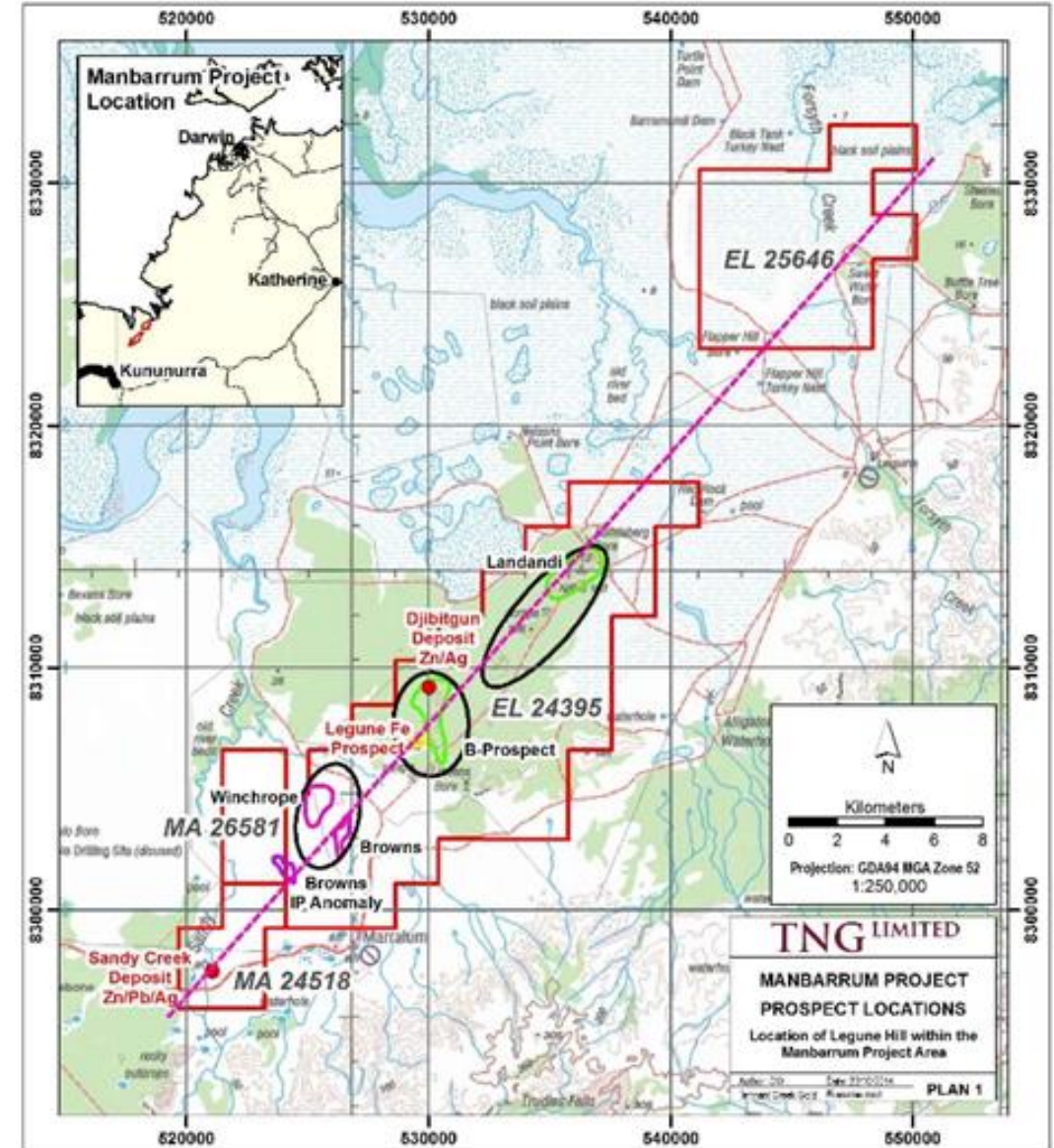




# Manbarrum: Extensive Historical Exploration Work Completed



- RC and Diamond Drilling: +37,000 metres
- Geophysical programmes: IP and Gravity
- Resource and Scoping Study work
- Metallurgical Testwork
- Environmental base-line work

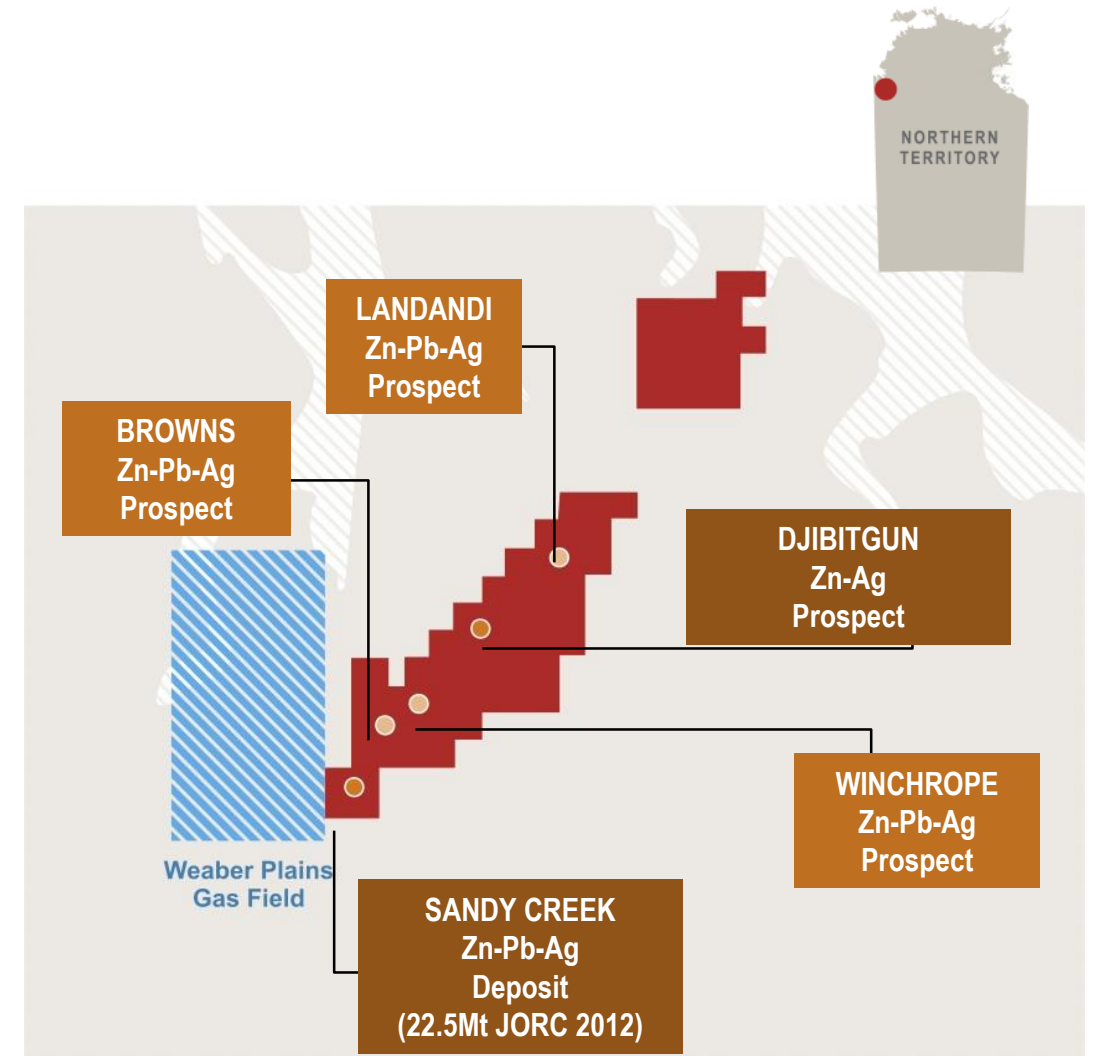


# Manbarrum: Advanced Near-Development Project\*



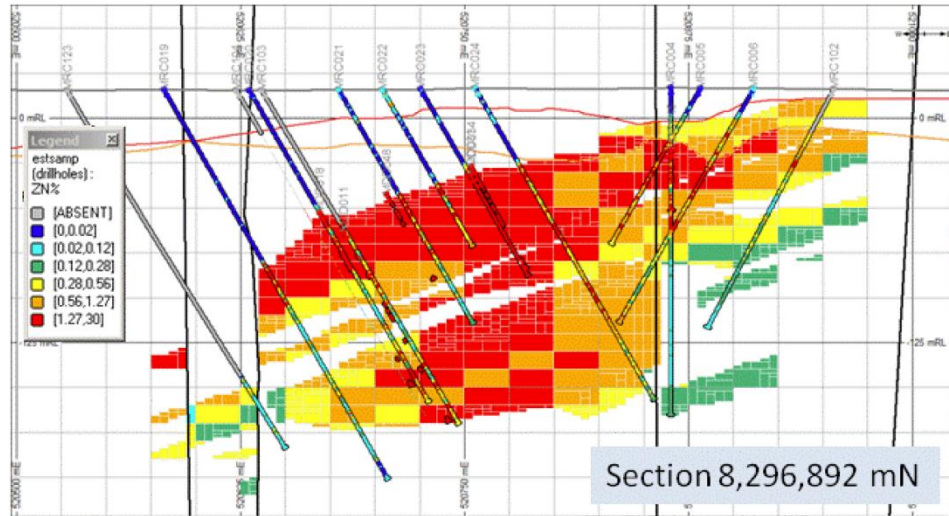
## Snapshot

- Existing resource at Sandy Creek:
  - JORC 2012 Indicated and Inferred:  
22.5Mt @ 1.81% Zn, 0.44% Pb and 4.56g/t Ag
- Djibitgun prospect:
  - Historical drilling undertaken
  - Rock chip results up to 72.8g/t silver and several above 10g/t silver
- Browns prospect:
  - Large IP target
  - Similar style mineralisation to Sandy Creek
- Four untested geophysical targets
- Metallurgical and scoping studies to commence immediately on Sandy Creek





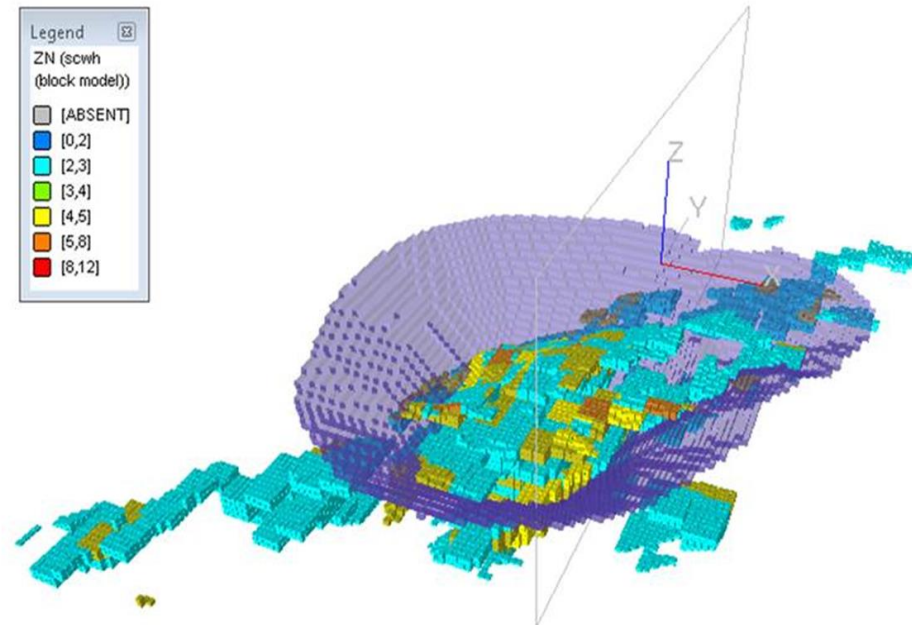
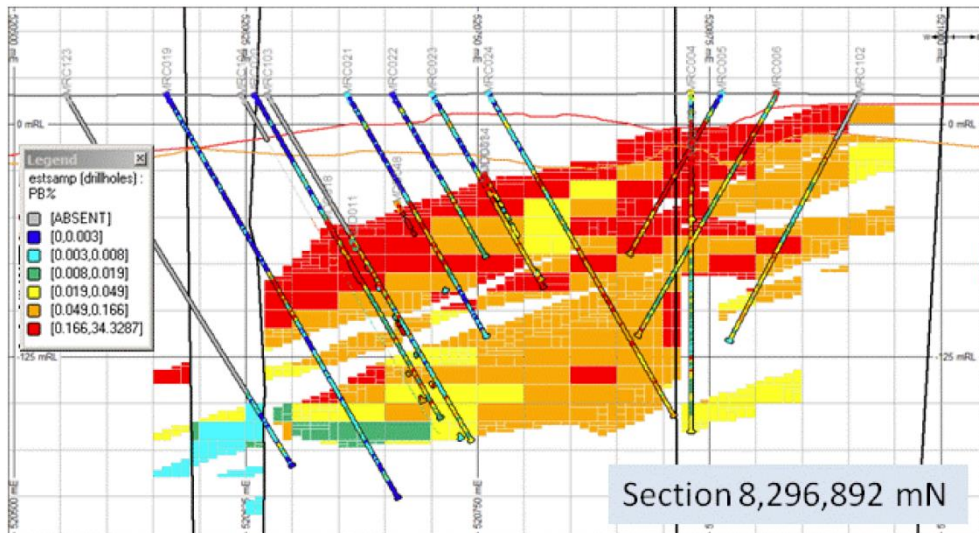
# Manbarrum: Sandy Creek Mineral Resource



- Inferred and Indicated (JORC 2012)\*  
**22.5 Mt @ 1.81% Zn, 0.44% Pb and 4.56g/t Ag**

- Section through the resource showing zinc (Zn%, top left), lead (Pb%, bottom left),

- Pit optimisation shell (below)



\*Full details (including those required under the 2012 JORC Code) are contained in the Prospectus





## ***Mount Hardy Copper Project***



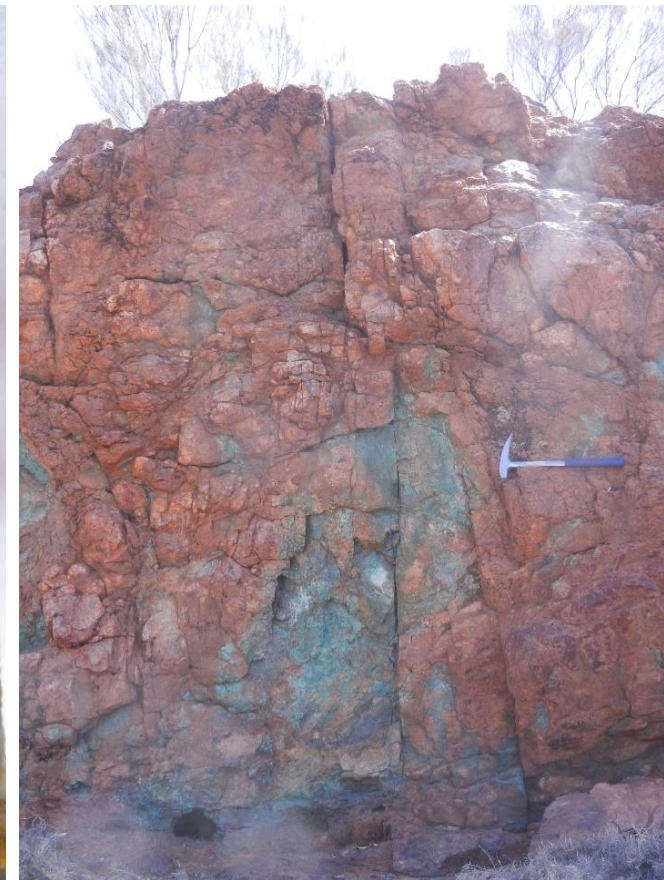
# Mount Hardy Project: Highly Mineralised Area\*



**Mount Hardy Project**  
EM Target #1  
Rock Sample @ 762020mE 7552925mN  
Weathered ferruginous quartz vein with hematite gossan and oxide/carbonate Cu-Zn-Pb. Malachite, cupriferos hematite and limonite

All Analyses are XRF Niton XLt values  
Scale: Hand lens width 14mm

Sample ID	Cu (%)	Zn (%)	Pb (%)
#315	22.3%	5.8%	14.7%
#311	26.4%	16.5%	8.6%
#310	15.0%	8.2%	11.4%
#309	21.3%	19.8%	3.2%
#312	7.6%	14.6%	4.1%
#308	5.1%	36.5%	0.6%



# Mount Hardy: Advanced Exploration Asset\*



- Copper-rich polymetallic district with small-scale historical mining
- High-grade structurally-controlled precious and base metal targets
- Extensive areas of surface copper with anomalous zinc, gold, silver and lead
- Rock chip grades of up to 35% Cu, 18% Pb, 10% Zn, 7g/t Au and 400g/t Ag
- 900 line kilometre HELITEM survey completed by TNG, as well as IP and gravity surveys
- 17 priority EM targets identified; DHEM completed
- Drill-ready targets for testing in early 2017

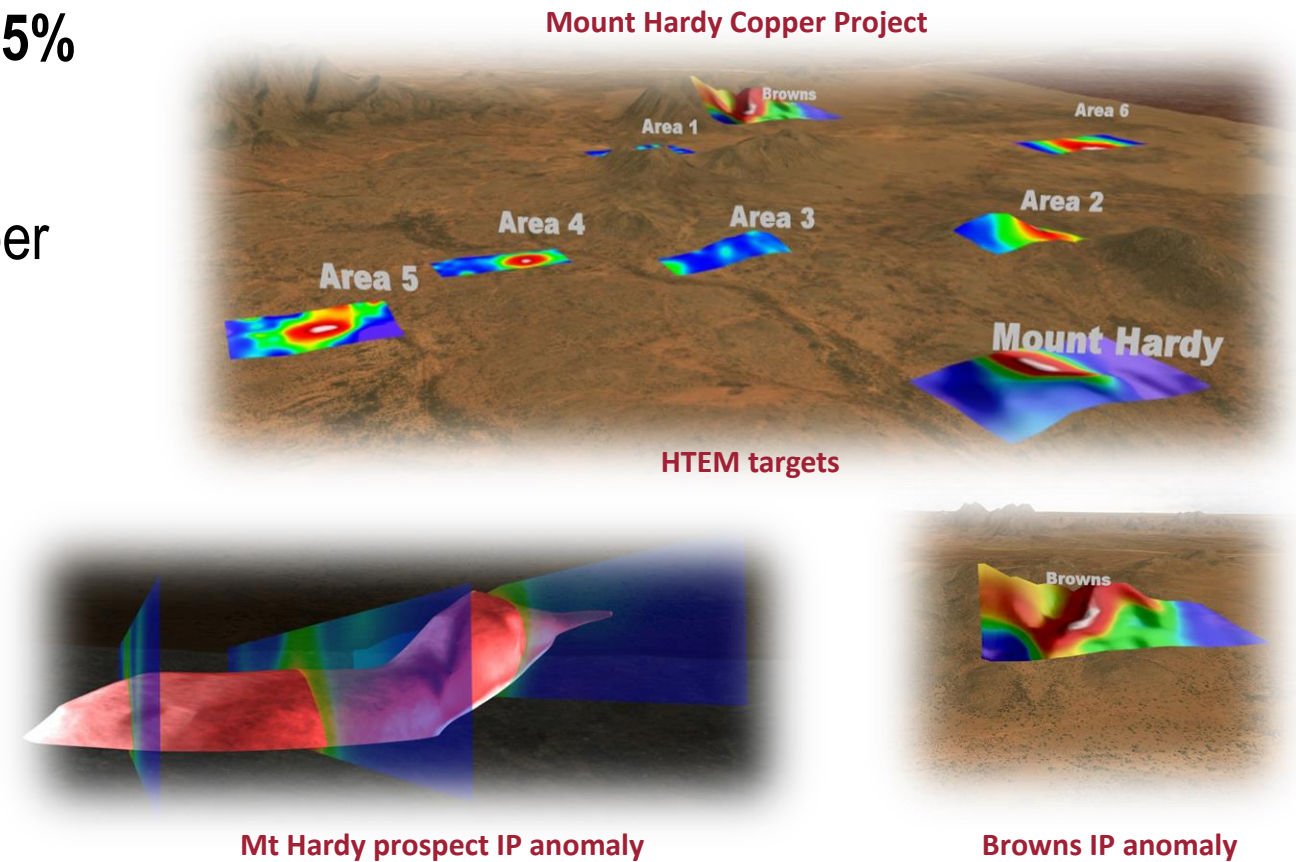


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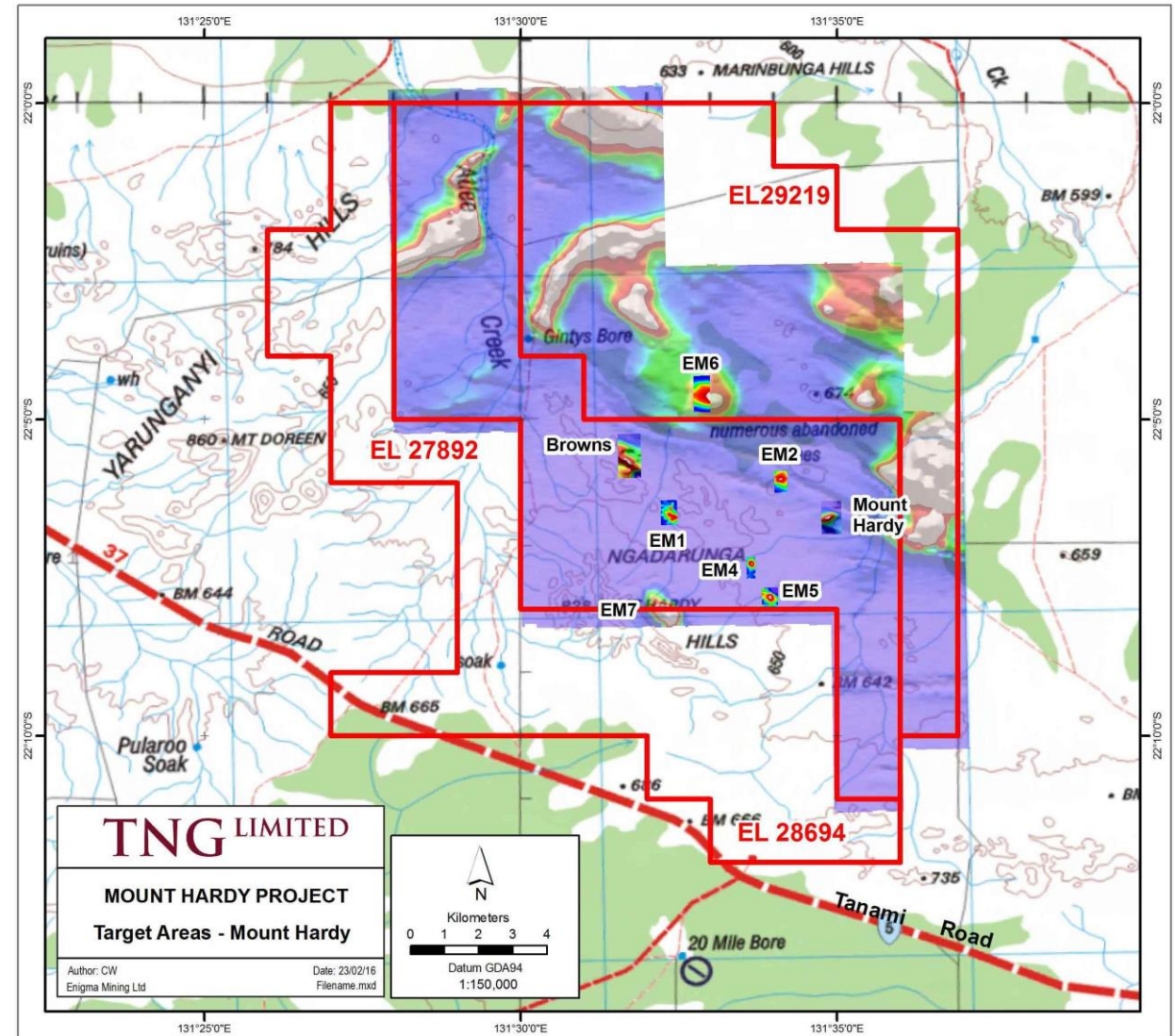
- HTEM identified 17 EM targets (8 tested to date)
- Extensive surface rock chip grades up to **35% Cu, 18% Pb, 10% Zn, 7g/t Au, 400g/t Ag**
- Drilling confirmed significant sulphide copper grades below oxide
- Range of good intersections:
  - 10.3m @ 1.35%Cu
  - 5m @ 2.5% Cu, 1% Pb, 4% Zn
  - 21m @ 0.5% Cu, 2% Pb, 4.35% Zn
- DHEM refined more targets



# Mount Hardy: Early Drilling Results Highly Encouraging\*



- RC and diamond drilling programs completed over last four years
- Results include\*:
  - 21m @ 4.35% Zn at EM Target 1
  - 13.0m @ 1.82% Zn and 1.17% Cu from 74m down-hole, including 1.0m @ 3.86% Cu, 11.75% Zn, 2.09% Pb at Browns Prospect
  - 1.0m @ 9.44g/t Au from 112m down-hole at Mount Hardy Prospect
- Broad zones of poly-metallic mineralisation indicate potential for a large poly-metallic system at depth



\*Full details (including those required under the 2012 JORC Code) are contained in the Prospectus



# Mount Hardy: Current Drilling Confirms Base Metal Mineralisation\*



- RC and diamond drilling programs currently underway at four priority targets – Browns, Mt Hardy, EM Target 1 and EM Target 2
- Visual copper sulphides intersected in all of the first four initial holes at Browns Prospect
- Shallow, south-dipping zone of mineralisation defined at Browns prospect
- Best results include\*:
  - **17MHRC017** - 11m @ 1.19% Cu, 0.30% Zn, 0.12% Pb and 13.1g/t Ag from 63m-downhole, including 7.0m @ 1.77% Cu and 0.43% Zn, 17.7g/t Ag from 67-74m
  - **17MHRC016** - 2.0m @ 1.67% Zn, 0.28% Cu, 0.18% Pb from 88-90m down-hole.







***Walabanba Project – Base metal and lithium opportunity***



# Walabanba Project – Base metal and Lithium opportunity



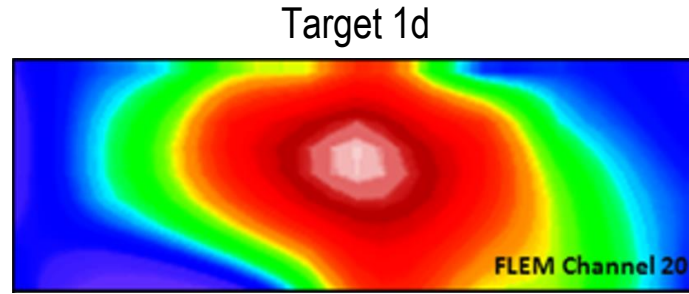
- Four drill ready geophysical base metal targets
- Anningie tin field – lithium (Sn, W) target
  - *Large outcropping pegmatites with historic Sn/W production*
  - *Mapping, sampling and drill testing required*
  - *AAPA Clearance received for exploration across Clark and Bismark prospects*



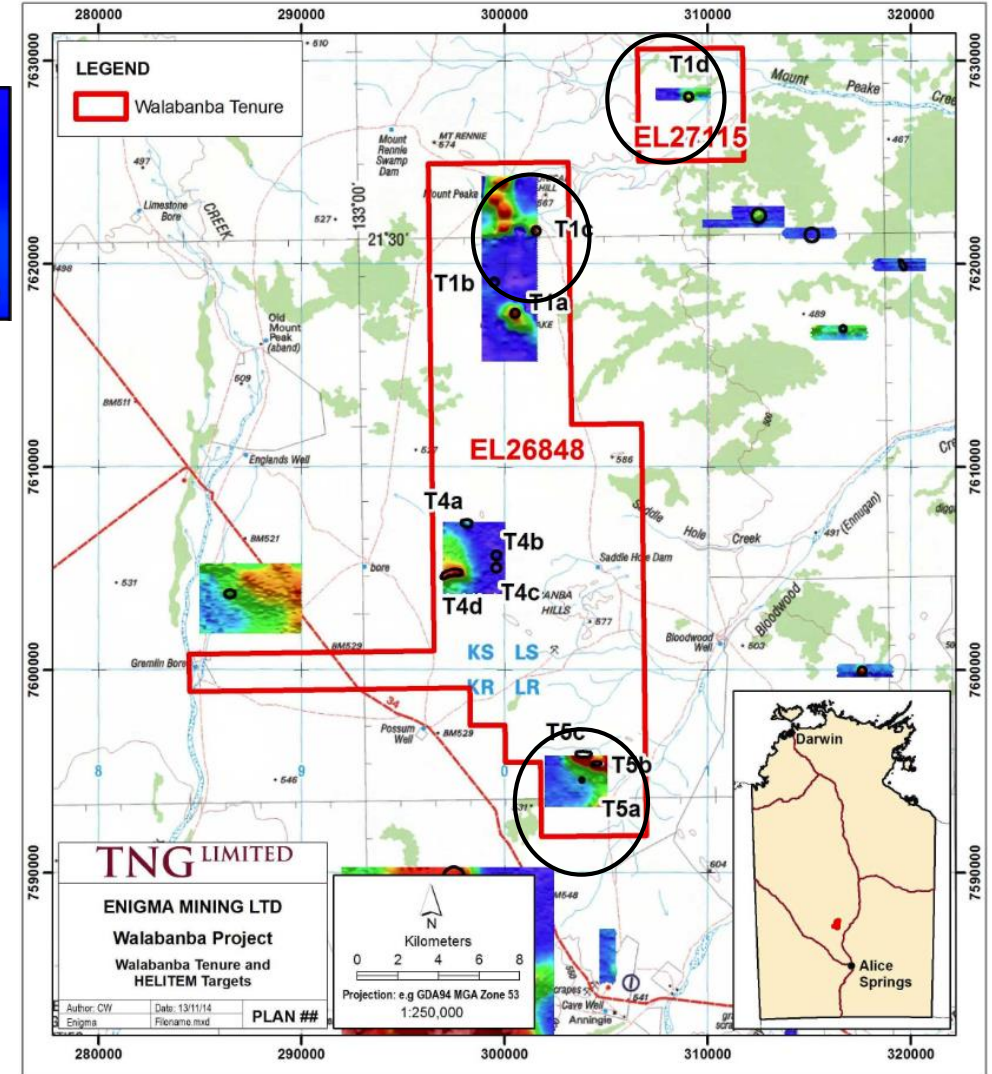
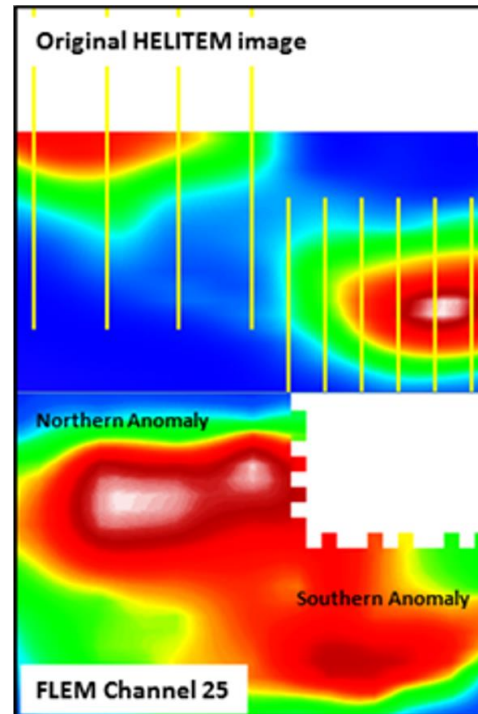
# Walabanba Project – Base Metal Targets



- Four drill-ready base metal targets
  - Identified from HELITEM survey, and confirmed by ground EM survey work
- Drilling targets outlined and approvals in place
- Planned drilling in Q2 2017



Targets 5b (southern) and 5c







## ***McArthur River Zinc-Copper Project***



# McArthur River: Zinc-Copper-Silver\*



- Located within Batten Fault Zone – host to all significant resources within the McArthur Basin including the recent *Teena* discovery
- Similar lithological package to Glencore’s world-class *McArthur River Zinc Mine* (60km north) - prospective for similar Zn-Pb-Cu-Ag deposits
- Prospective ‘Wollogorang Formation’ defined over 25km strike - large multi-element *zinc, copper, silver* anomalous zones identified
- Mapping program completed in 2015:
  - *Stratabound copper mineralisation delineated over a 600 x 400m area with assays up to 47.8% Cu and 25% of all rock samples exceeded 10% Cu*

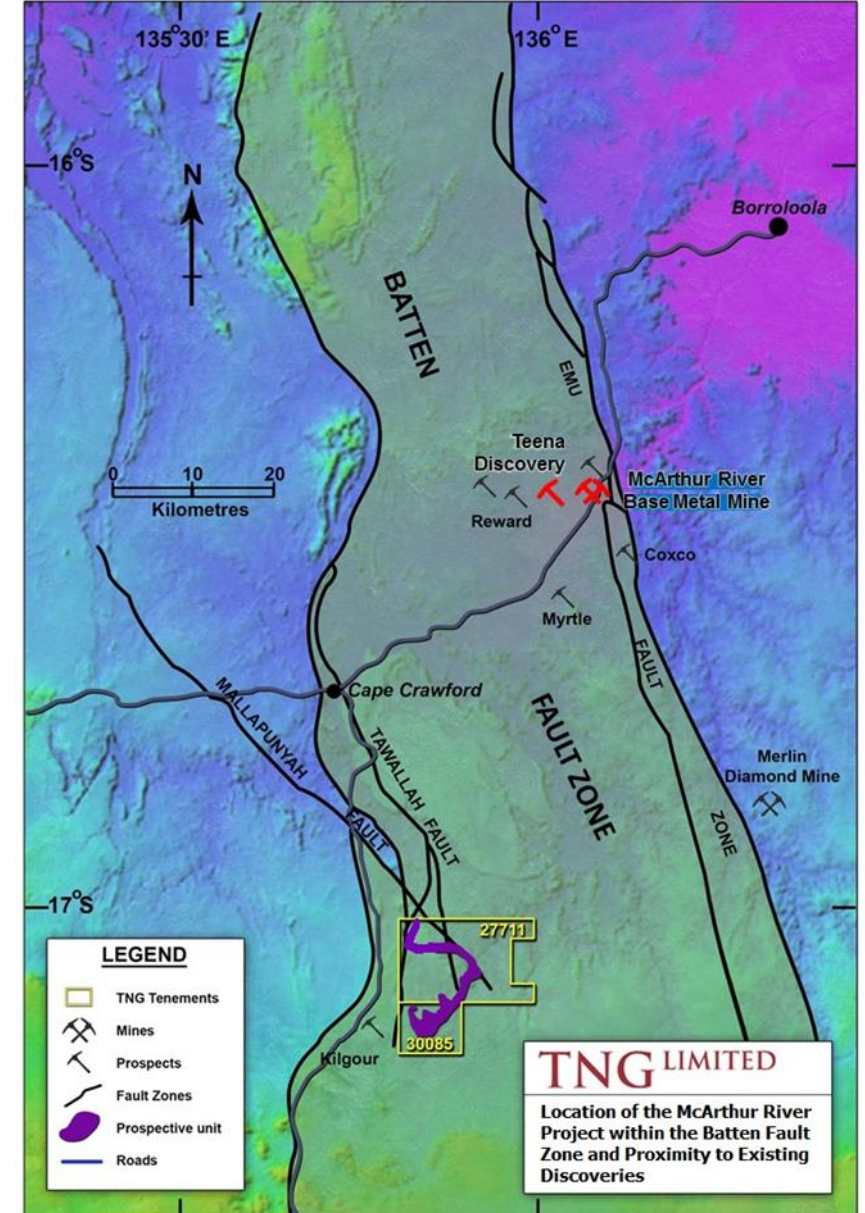
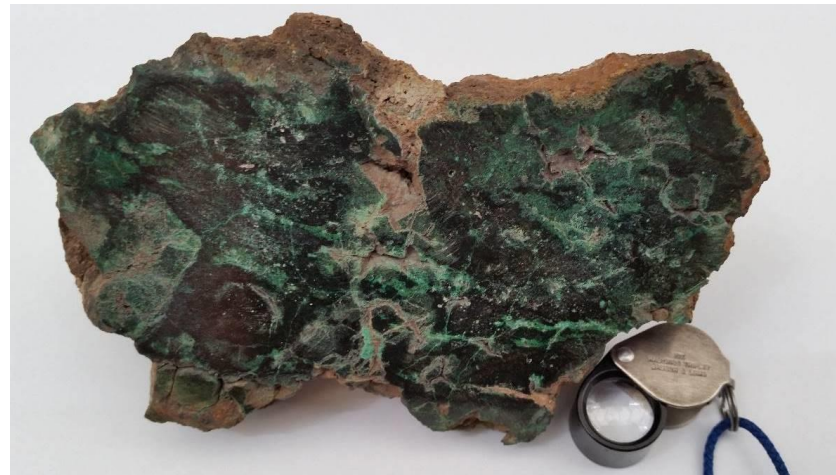




# McArthur River: The Right Geological Address



- Similar structural and stratigraphic domain to other discoveries
- Area is higher interest with extensive high-grade surface Cu with Zn, Pb
- Very low exploration for base metals in this area



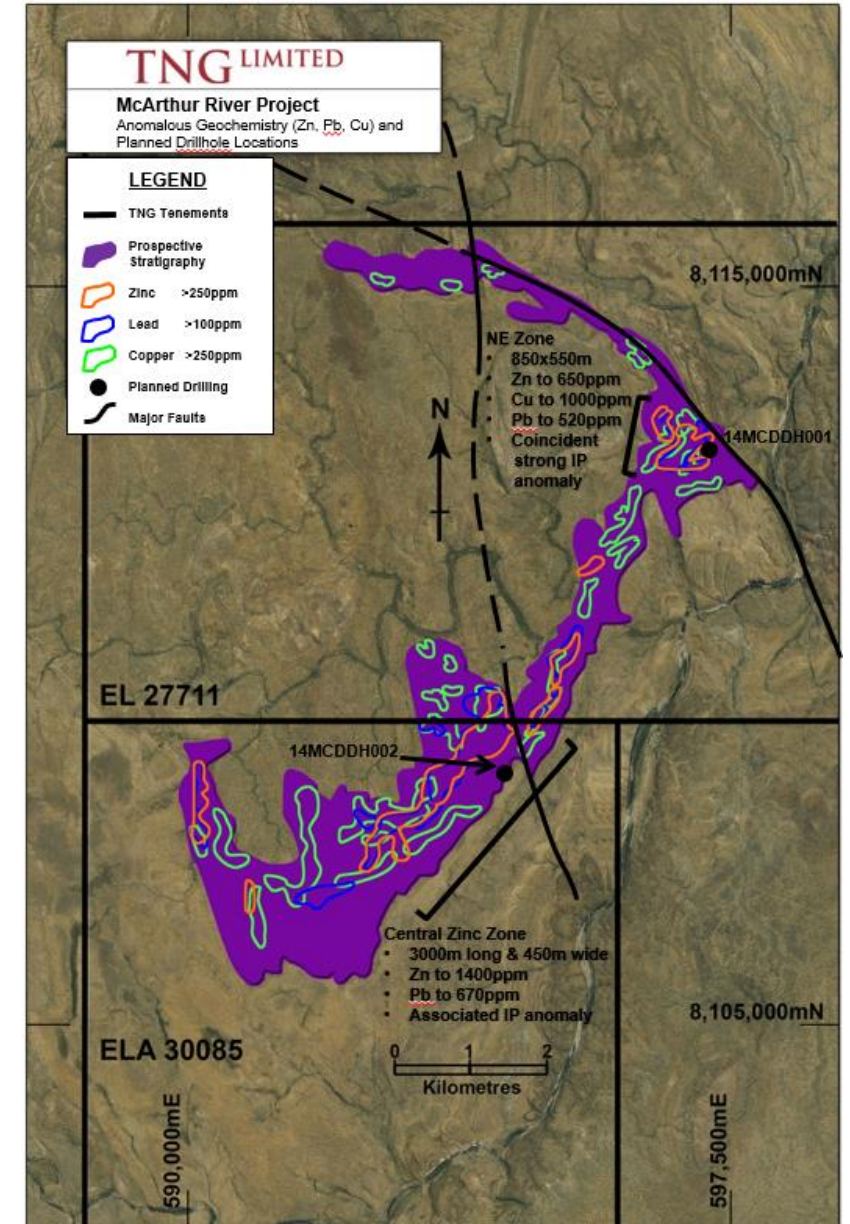
# McArthur River: The Next Steps



- Five key anomalous zones identified
- All results point to the organic-rich shales of the Wollongorang Formation having similar haloes and base metal mineralisation style to the McArthur River mine
- Potential for further targets to be outlined by planned geophysics across the project area
- Initial focus for exploration:

*Geophysical surveys*

*RC and diamond drilling*







## ***Stokes Yard Zinc-Lead-Copper Project***

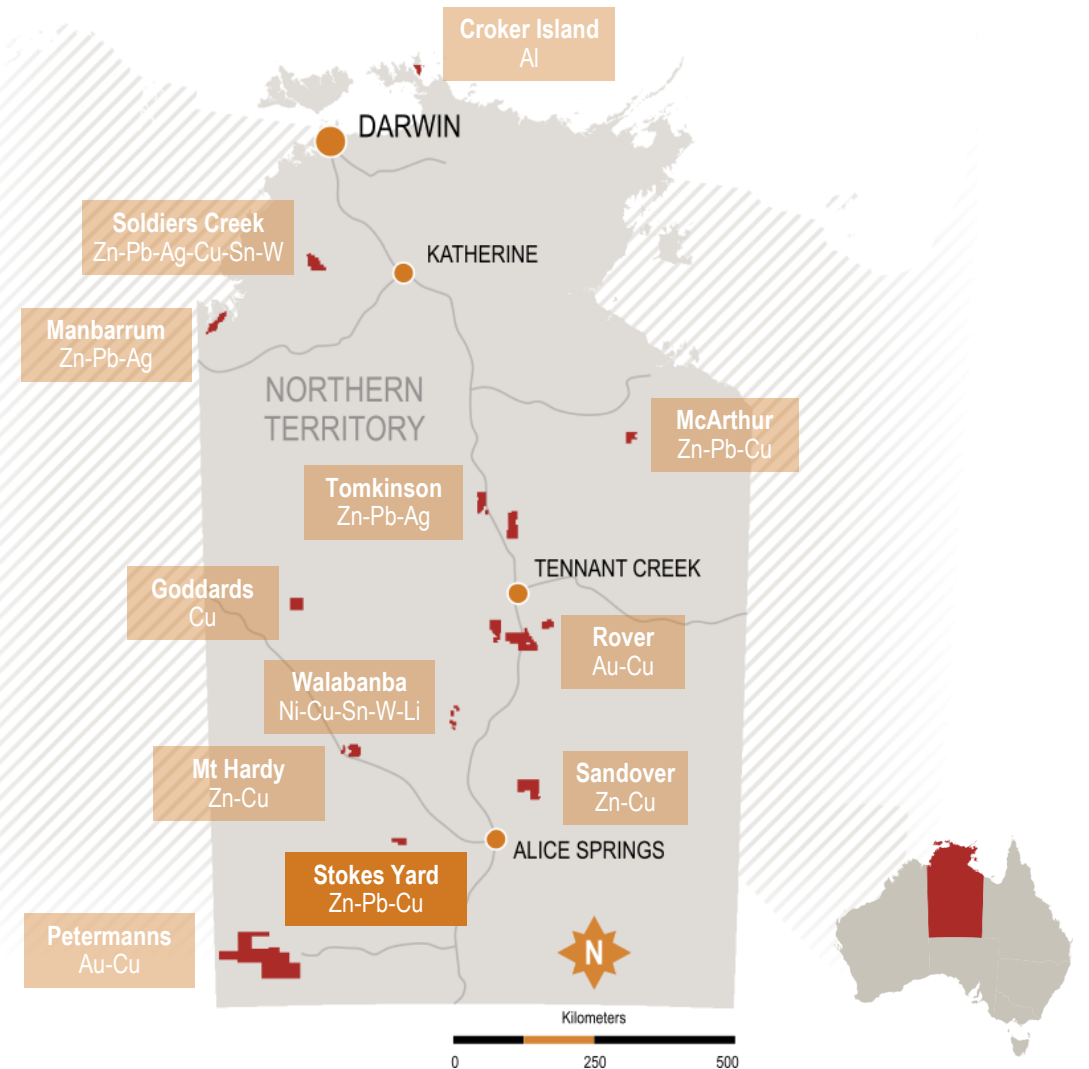


# Stokes Yard: Zinc-Lead-Copper\*



- Located 200km west of Alice Springs in the Warumpi Province
- Historic rock chip sampling from the Stokes Yard Prospect returned up to 26% Zn, 35.8% Pb, 7.5% Cu, and 130 g/t Ag
- No modern drill testing
- Shallow workings developed in mylonite zones within schists and calc-silicates of the Ikuntji Metamorphics
- Recent interest in the Warumpi Province, due to ABM/IGO's discovery of the potentially IOCG-style Bumblebee Prospect near Kintore

7m @ 3.3g/t Au, 3.2% Cu, 1.3%Zn, 37.7g/t Ag\*\*



\*Full details (including those required under the 2012 JORC Code) are contained in the Prospectus

\*\*For full details, refer to TNG Limited ASX Announcement "TNG expands base metal portfolio in NT", dated 30 June 2016





## *The Year Ahead*



## *Summary: Key Investment Points*



- New base metals Company with focus on zinc and copper in the NT
- Strategy to become a leading force in Australian zinc exploration and development
- Large, high-quality asset portfolio in the Northern Territory
- Advanced projects with significant exploration work already completed
- Experienced team with extensive knowledge of the Company's asset base
- CEO search underway
- Company has planned an aggressive exploration campaign across 2017



# TODD RIVER RESOURCES

ASX Code: TRT

*Australia's new zinc and copper opportunity*

