

August 2019

# Significant Growth Potential at Mt Hardy

Will Dix, Managing Director, August 2019.



**TODD RIVER  
RESOURCES**

## Disclaimer and Competent Person's Statement

### Disclaimer

- This presentation has been prepared by Todd River Resources Ltd. This document contains background information about Todd River Resources Ltd current at the date of this presentation. The presentation is in summary form and does not purport to be all inclusive or complete. Recipients should conduct their own investigations and perform their own analysis in order to satisfy themselves as to the accuracy and completeness of the information, statements and opinions contained in this presentation.
- This presentation is for information purposes only. Neither this presentation nor the information contained in it constitutes an offer, invitation, solicitation or recommendation in relation to the purchase or sale of Todd River Resources Ltd shares in any jurisdiction. This presentation may not be distributed in any jurisdiction except in accordance with the legal requirements applicable in such jurisdiction. Recipients should inform themselves of the restrictions that apply in their own jurisdiction. A failure to do so may result in a violation of securities laws in such jurisdiction.
- This presentation does not constitute investment advice and has been prepared without taking into account the recipient's investment objectives, financial circumstances or particular needs and the opinions and recommendations in this presentation are not intended to represent recommendations of particular investments to particular persons. Recipients should seek professional advice when deciding if an investment is appropriate. All securities transactions involve risks, which include (among others) the risk of adverse or unanticipated market, financial or political developments. To the fullest extent permitted by law, Todd River Resources Ltd, its officers, employees, agents and advisers do not make any representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of any information, statements, opinions, estimates, forecasts or other representations contained in this presentation. No responsibility for any errors or omissions from this presentation arising out of negligence or otherwise is accepted. This presentation may include forward looking statements. Forward looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Todd River Resources Ltd. Actual values, results or events may be materially different to those expressed or implied in this presentation.

### Competent Person's Statement

- The information in this announcement that relates to exploration results is extracted from ASX Announcements titled:
  - "Geophysics points to additional mineralisation at Mt Hardy" lodged on 3 September 2018
  - "EM1 Mineralisation Further Extended at Mt Hardy" lodged on 29 November 2018
  - "Excellent Results from Metallurgical Testwork at Mt Hardy" lodged on 27 February 2019
  - "Diamond Drilling Update – Mt Hardy Project, NT" Lodged on 9 April 2019
  - "Sampling Identifies 7 Areas of Mineralisation at Mt Hardy" Lodged on 29 July 2019

which are available to view at [www.trrltd.com.au](http://www.trrltd.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 original market announcements. 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 announcement.

- The information in this announcement that relates to the estimation and reporting of the Hendrix Resource is extracted from the ASX announcement titled "Maiden Mineral Resource Estimate at Mt Hardy" lodged on 10 July 2019 which is available to view at [www.trrltd.com.au](http://www.trrltd.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 this presentation. 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.



# Significant Growth Potential

## At Mt Hardy

The exploration program commencing in August underpinned by the Hendrix resource will focus on a number of priority targets:

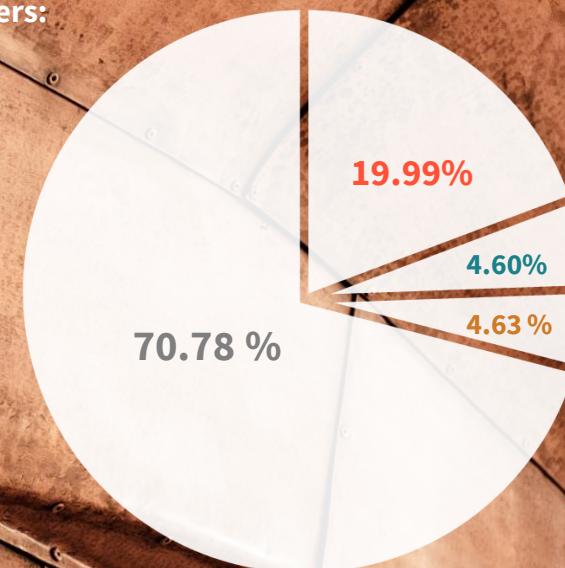
- Adding to the mineral inventory around Hendrix by shallow drill testing the next extensional targets to the south and the north west
- Testing new electromagnetic conductors north and south of the main Hendrix mineralisation
- Following up the high priority new targets with:
  - Further mapping to determine the extent of the targets
  - Focused geophysics to better define drill targets
  - Drilling to test the depth extent and continuity of the mineralisation observed at surface

## Key Corporate and Financial Data

# Todd River Resources: Corporate Overview

ASX code:	TRT
Shares on issue:	151.5M
Market Capitalisation (at 4.0c):	\$6.0M
Unlisted Options (various pricings):	24.5M
Listed Options (\$0.25 March 2020):	31.4M
Cash (June 2019):	\$1.4M

Major Shareholders:



● Southern Star Exploration ● TNG ● Zero Nominees ● Others

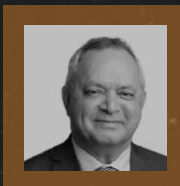
**Maiden JORC Mineral Resource:**  
2.6Mt @ 10.5% ZnEq\* for 175,000 tonnes of zinc, 22,500 tonnes of copper and 40,000 tonnes of lead provides a robust platform for growth.

\*see ASX announcement lodged July 10 2019



# Board of Directors

**Edward Fry**  
Non-executive Chairman



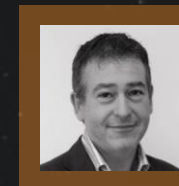
Mr Fry has extensive experience within the Australian resource sector and is a specialist in Indigenous and Native Title issues. Mr Fry is the Chairman of Indigenous Business Australia, Chair of the Indigenous Land Corporation, Chair of the Indigenous Advisory Board at Broadspectrum Australia (since 2010), a Deputy Chair of the Aboriginal Foundation of South Australia Inc (since 2007). During his career he also held senior executive roles with Normandy Mining Ltd.

**Will Dix**  
Managing Director



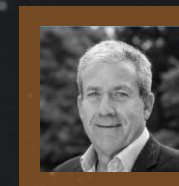
Mr Dix is a geologist with 25 years' experience in base metal, gold and uranium exploration and mining. Earlier in his career, he spent nine years with the highly successful international nickel producer LionOre Mining International in a variety of exploration, mining and management roles.

**Mark Bennett**  
Non-executive Director



Mark is currently the Managing Director of ASX listed S2 Resources. Previously Mark was the managing director and CEO of Sirius from its inception to its merger with Independence Group. Mark is a two times winner of the Association of Mining and Exploration Companies "Prospector Award" for his discoveries which include the Thunderbox Gold Mine, the Waterloo nickel mine and most recently the world class Nova-Bollinger nickel-copper mine.

**Stuart Crow**  
Non-executive Director



Mr Crow has more than 28 years' experience in all aspects of corporate finance, stockbroking and investor relations in Australian and international markets and has owned and operated his own businesses in these areas for the last sixteen years.

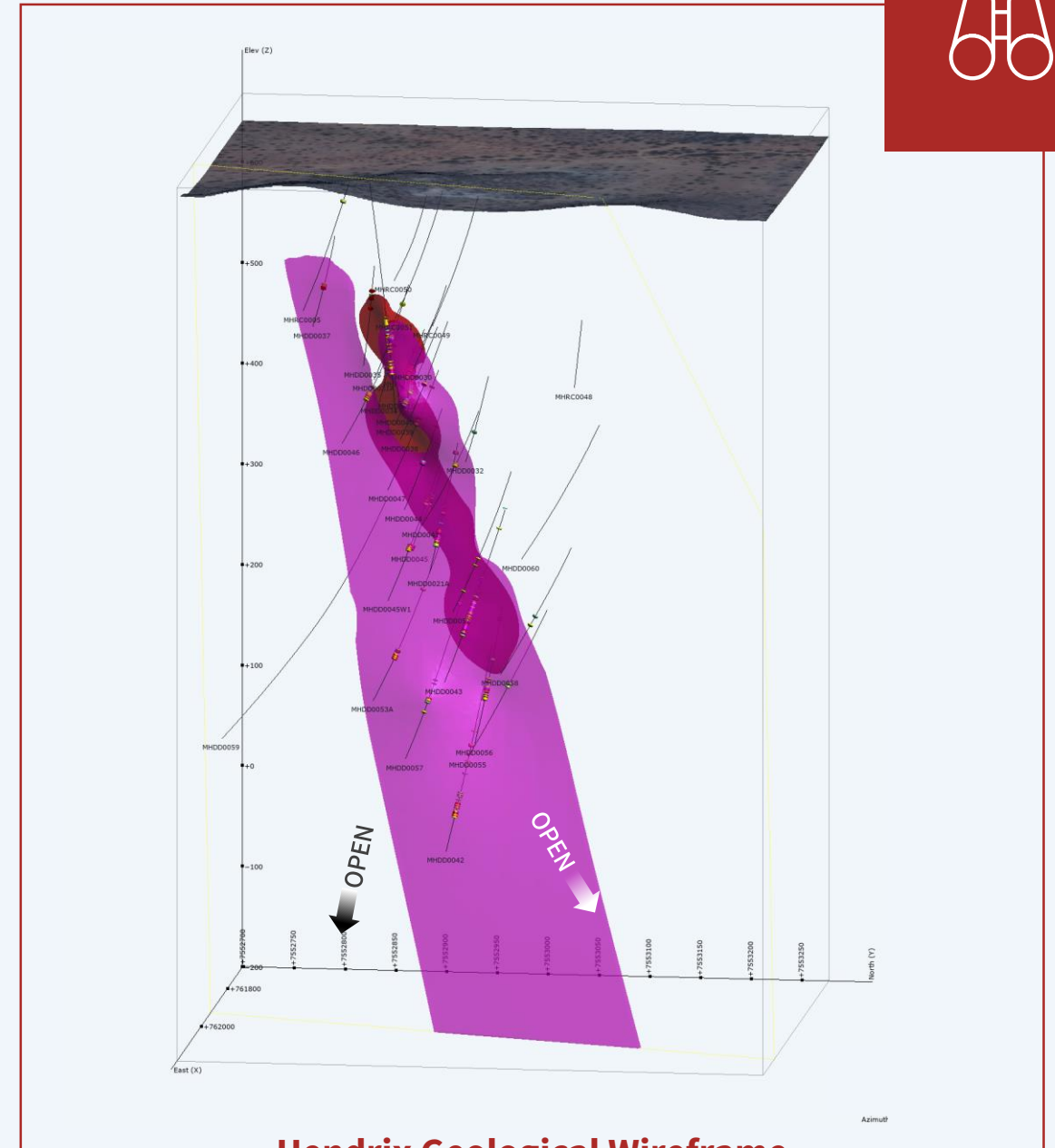


## Hendrix Mineral Resource

# Significant Growth Potential at Hendrix

- Mineral Resource estimate at Hendrix **2.6Mt @ 10.5% Zn Equivalent\***
- Mineral Resource contains approximately **175,000** tonnes of zinc, **22,500** tonnes of copper and **40,000** tonnes of lead
- Solid foundation for growth of inventory at Hendrix, which is open at depth and to the south, and at nearby targets
- Significant exploration potential remains at Hendrix and across the Mt Hardy Project
- New phase of drilling set to commence in August/September

\*See ASX Announcement lodged 10 July 2019



**Hendrix Geological Wireframe**



# Mt Hardy

## Seven New Areas of Mineralisation

### Surface Sampling Identifies Mineralisation

Surface sampling has identified seven new areas of base metal surface mineralisation within the Mt Hardy copper-zinc project

### Extensive Strike Extent

Mineralised outcrops up to 250m long and numerous historic workings

### Up to 41.4% Combined BM

Assays for first batch of samples from four of these areas have returned grades of up to 41.4% combined base metals\*

\*Cu+Pb+Zn

### Follow-up Exploration August 2019

All seven areas will be followed up in a detailed exploration program of geophysics and drilling starting in August 2019



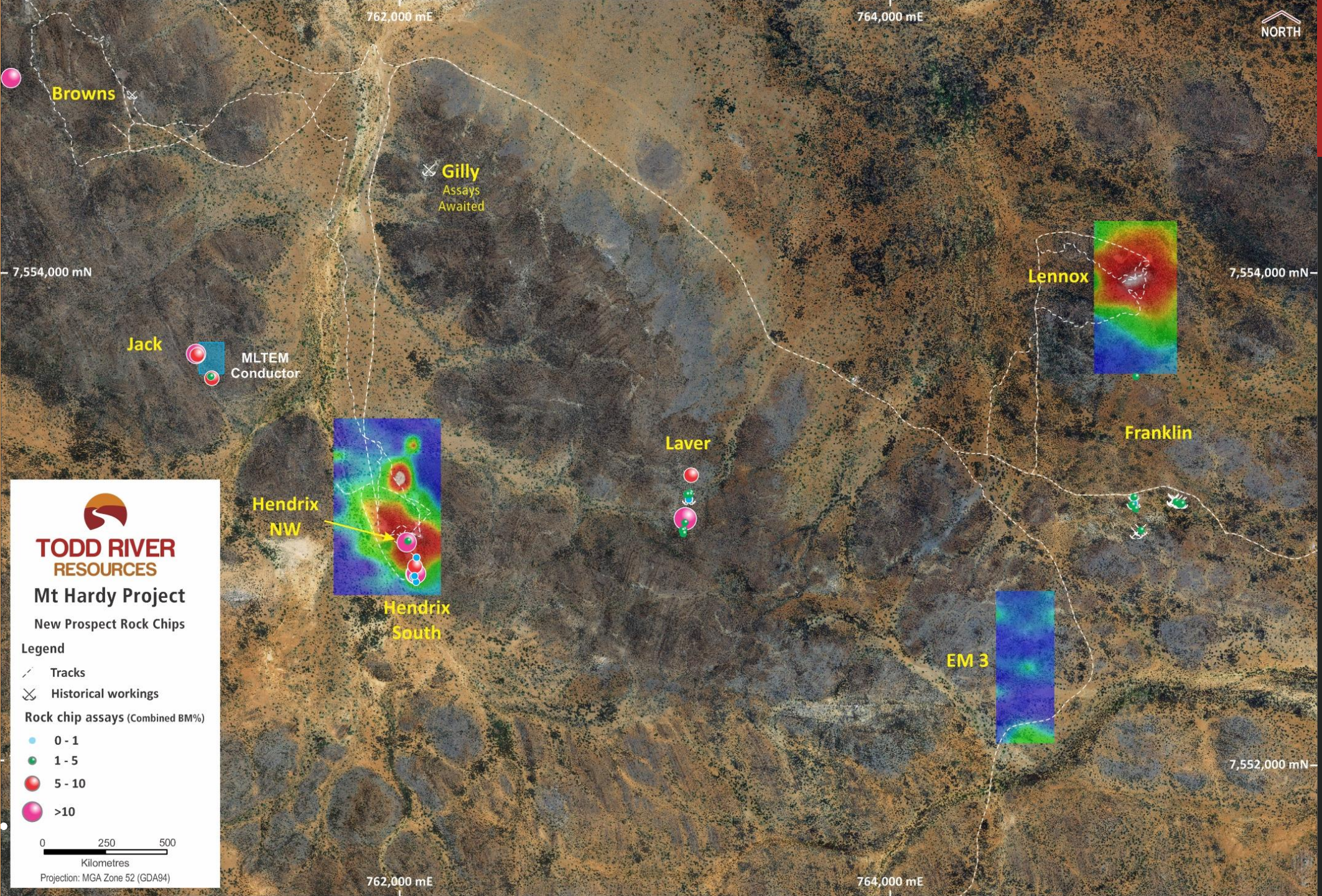
# Upcoming Exploration at Mt Hardy

## 7 New Prospects Identified

Prospect:	Priority:	Next Phase:	Comment:
Hendrix South	1	Shallow Drilling	New area of outcrop with base metal mineralisation adjacent to Hendrix - Immediate drill target
Hendrix NW	1	Shallow Drilling	High grade assays adjacent to Hendrix – Immediate drill target
Laver	2	Mapping/Geophysics	Significant strike of gossanous material over 250m. Detailed mapping and geophysics required
Jack	2	Drilling	Subtle EM conductor associated with surface mineralisation – Immediate drill target
Franklin	3	Mapping/Geophysics	High grade copper in breccia zones - Detailed mapping required to determine extent
Linda-Jane	2	Mapping/Geophysics	Detailed mapping to determine strike extent and targeted geophysics as first pass
Gilly	3	Mapping/Geophysics	Further mapping and sampling to determine extent



# New Areas of Mineralisation



  
**TODD RIVER RESOURCES**  
**Mt Hardy Project**  
New Prospect Rock Chips

**Legend**

- Tracks
- Historical workings

**Rock chip assays (Combined BM%)**

- 0 - 1
- 1 - 5
- 5 - 10
- >10

0 250 500  
Kilometres  
Projection: MGA Zone 52 (GDA94)



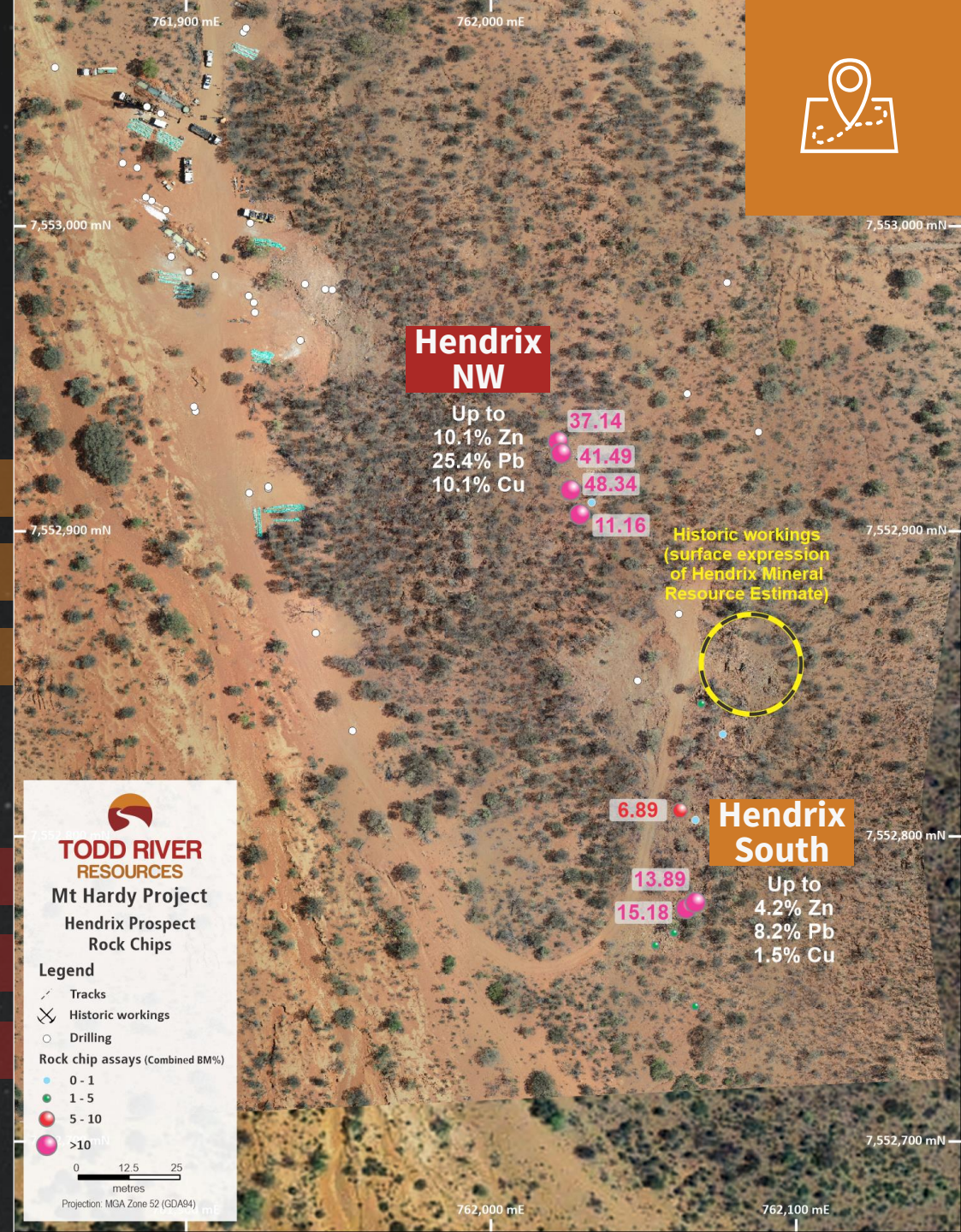
# New Targets at Hendrix

## Hendrix South

- Main brecciated quartz-rich unit over a strike of more than 100m
- Rock chip sample assay results up to 4.2% Zn, 8.17% Pb, 2.59% Cu, 89 g/t Ag
- No drill testing of this zone – high priority target for drilling

## Hendrix North West

- Similar breccia-style mineralisation observed at surface
- Assay results up to 10.1% Zn, 25.4% Pb, 10.1% Cu, 858 g/t
- No drill testing – high priority target to be tested with shallow RC holes





## New Target Areas

# Laver Prospect

- **Cu-Pb** occurrence 1.1km to the east-northeast of the Hendrix deposit
- Breccia extends over 250m in strike
- Rock chip sampling assay results of up to **12.7% Zn, 7.9 Pb, 3.1 Cu, 154 g/t Ag**
- Several anomalous **Au** results to a peak of **0.35 g/t Au**
- Mapping will determine the exact extent of the breccia
- No previous detailed geophysics or drilling has been completed
- Geophysics planned for August/September

# Jack Prospect

- Located **1.2 km** to the northwest of the Hendrix deposit
- Rock chip assay results up to **1.5% Zn, 1.8% Pb, 14.6% Cu, 149 g/t Ag**
- Highly anomalous Au results of up to **0.91 g/t Au**
- Subtle EM conductor associated with the mineralisation
- Immediate drill target





# Linda-Jane & Gilly Prospects

- Two recently sampled areas where gossanous material has been identified:
- At **Linda-Jane**, several small prospecting pits containing oxide copper and other base metal gossans
- The **Gilly** Prospect is a recently identified series of outcropping brecciated gossans
- Results from this sampling pending





# Next Steps

## At Mt Hardy

The August and September exploration program will focus on a number of priority targets:

- Drill testing the new targets immediately south and northwest of Hendrix
- Drill testing new EM conductors adjacent to the main Hendrix mineralisation
- Drilling of the EM conductor associated with surface mineralisation at the Jack Prospect
- Focused geophysics to better define drill targets at Laver, Linda-Jane and Franklin
- Further mapping and sampling at Gilly and other areas of interest

# Focus on Base Metals and Gold

## Petermann Range: Gold & Base Metals

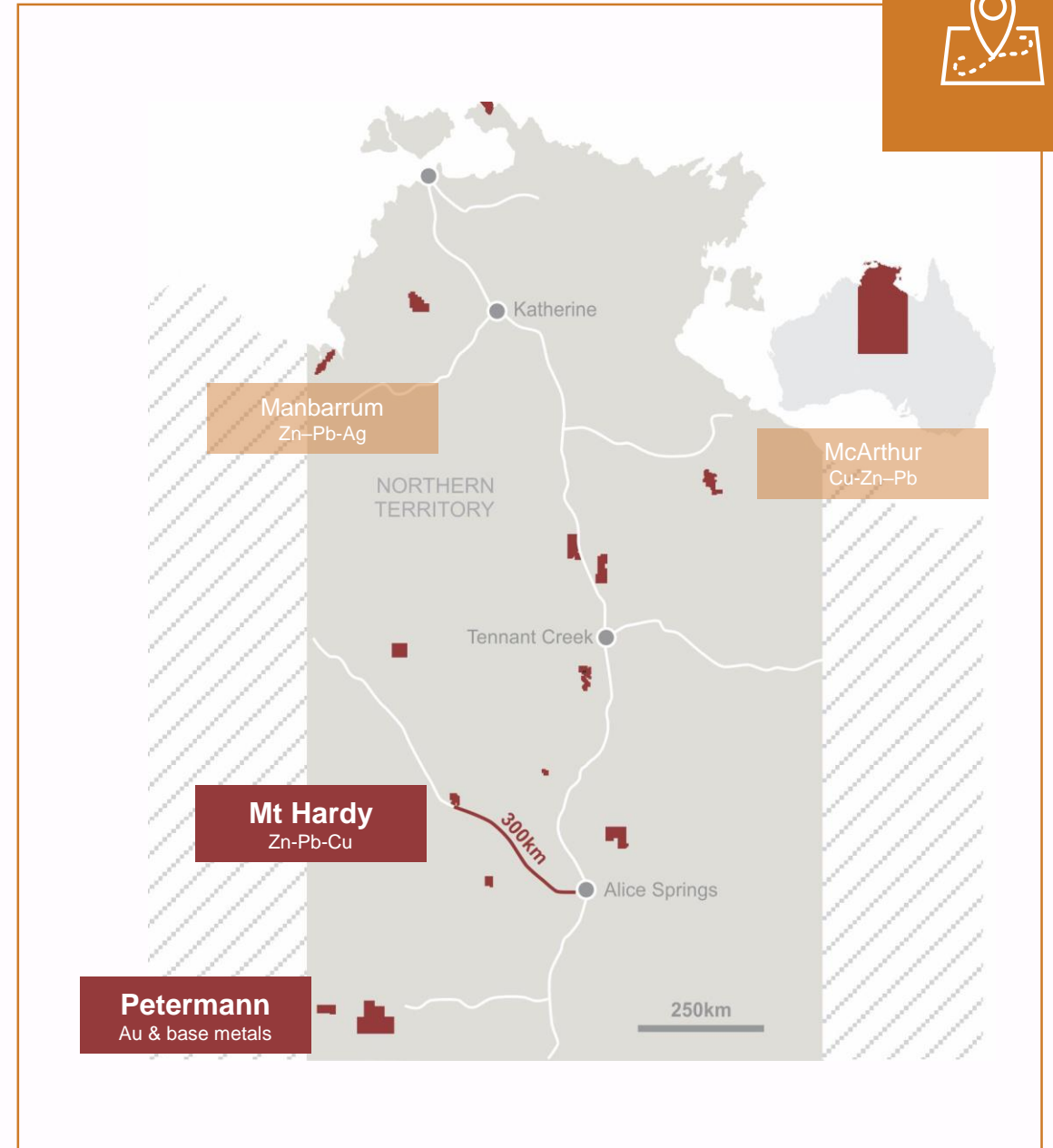
- Exploration Agreement currently being negotiated with the objective to be commencing on-ground exploration during Q3 2019 –  
**Desk Top Work already Commenced**

## McArthur River: Copper-Lead-Zinc

- CSIRO collaboration and Adelaide University Honours Projects to review geophysics and refine stratigraphy –  
**No On Ground Work Planned for 2019**

## Manbarrum Project

- Considering a number of strategies to move the project forward

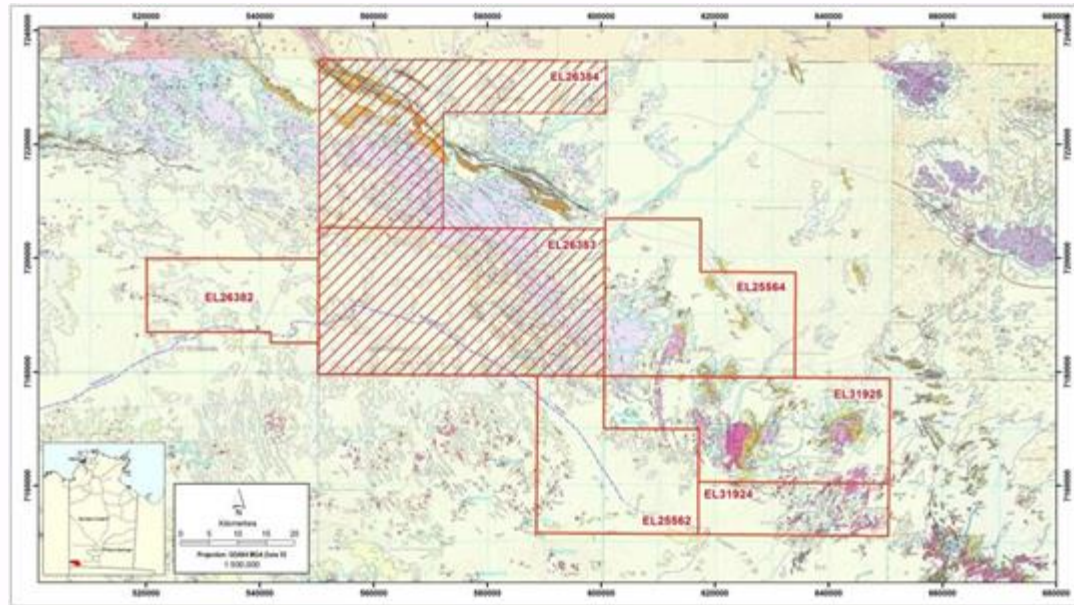
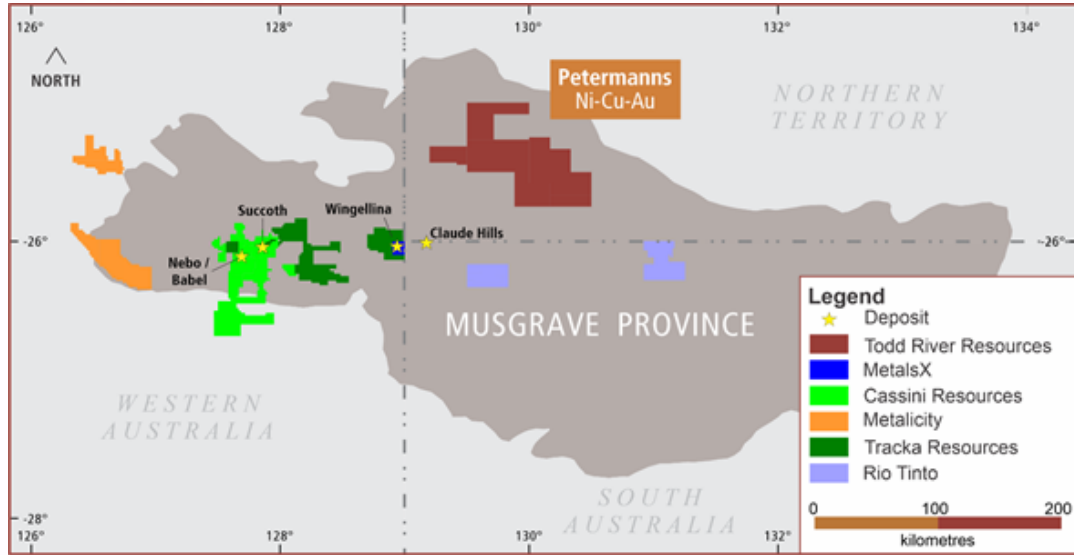




# Petermann Range Project –

## Substantial Musgrave Land Holding

- 5,100km<sup>2</sup> of tenure
- 2,800km<sup>2</sup> proceeding to grant
- Additional 2,300km<sup>2</sup> remaining moratorium
- Significant Land Position in the Central Musgrave Province with no modern Exploration for 40 Years
- Exploration Agreement with the Traditional Owners currently being negotiated. Chairman Eddie Fry Key for a strong Company-TO Relationship
- First Pass – Mapping, Broad Surface Sampling and Airborne Geophysics over Priority Areas. Planned and ready to commence once Land Access approved: Aiming for 2020 Field Session
- Longer Lead Time but Elephant Country





Contact



# TODD RIVER RESOURCES

Will Dix - Managing Director

P - 08 6166 0255 E - [info@trrltd.com.au](mailto:info@trrltd.com.au) W - [www.trrltd.com.au](http://www.trrltd.com.au)



ASX Code: TRT



Cutoff Zn %	Tonnage	Metal Grade					Metal Tonnes			
		ZnEq %	Zn %	Cu %	Pb %	Ag g/t	Zn (t)	Cu (t)	Pb (t)	Ag (oz)
0.5	2,700,000	10.3	6.5	0.9	1.5	34	176,000	23,200	40,000	3,000,000
1.0	2,600,000	10.4	6.6	0.9	1.5	34	175,000	22,700	40,000	2,900,000
<b>1.5</b>	<b>2,600,000</b>	<b>10.5</b>	<b>6.7</b>	<b>0.9</b>	<b>1.5</b>	<b>35</b>	<b>175,000</b>	<b>22,500</b>	<b>40,000</b>	<b>2,900,000</b>
2.0	2,500,000	10.7	6.8	0.9	1.6	35	173,000	22,000	40,000	2,900,000
2.5	2,500,000	10.8	7.0	0.9	1.6	35	172,000	21,500	39,000	2,800,000
3.0	2,400,000	11.0	7.1	0.9	1.6	36	170,000	21,100	38,000	2,800,000
3.5	2,300,000	11.2	7.2	0.9	1.6	36	167,000	20,600	37,000	2,700,000
4.0	2,200,000	11.5	7.5	0.9	1.6	37	162,000	19,900	35,000	2,600,000
4.5	2,000,000	12.0	7.8	1.0	1.7	39	153,000	18,800	34,000	2,400,000
5.0	1,700,000	12.7	8.2	1.0	1.8	41	142,000	17,300	32,000	2,300,000

**\*Note:** Zinc Equivalent (ZnEq%) is based on the following formula:

$$\text{ZnEq \%} = \text{Zn\%} + (\text{Cu\%} \times (5900/2550)) + (\text{Pb\%} \times (1900/2550)) + (\text{Ag ppm} \times ((15/31.103475)/(2550/100)))$$

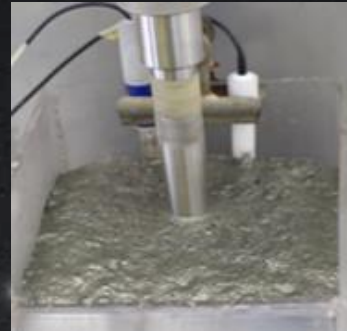
**Where:**  
 Zn = \$2,550 USD/ tonne  
 Cu = \$5,900 USD / tonne  
 Pb = \$1,900 USD / tonne  
 Ag = \$15 USD / ounce

Appropriate rounding has been applied.



# Mount Hardy Copper-Zinc Project – First Pass Metallurgy

- Excellent recoveries achieved
- Metals separated into individual products
- High quality concentrates produced



Copper Concentrate



Lead Concentrate



Zinc Concentrate

## Outcomes:

- 3 separate high quality Concentrates Produced – **Copper, Lead and Zinc**
- Zinc concentrate values (**55%**) indicate a premium product with low impurities
- Recoveries exceeding **85%** with improvement expected through optimisation of the flowsheet
- No sign of significant deleterious elements in any of the 3 concentrates
- Further work at a time to be determined to focus on improving overall grades and recoveries