



ASX Code: TRT

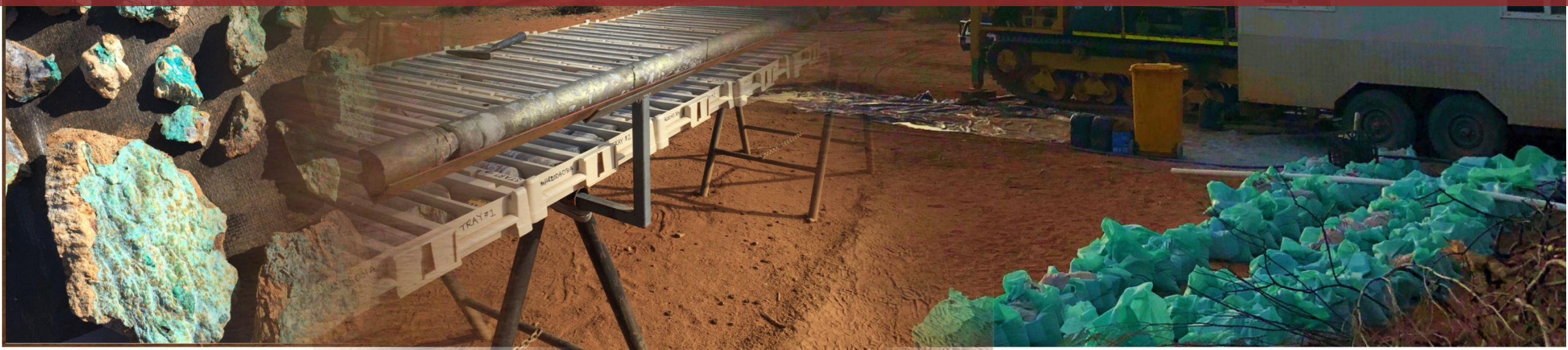


**TODD RIVER
RESOURCES**

2019 – Expanding Exploration at Mt Hardy

Will Dix, Managing Director

April 2019



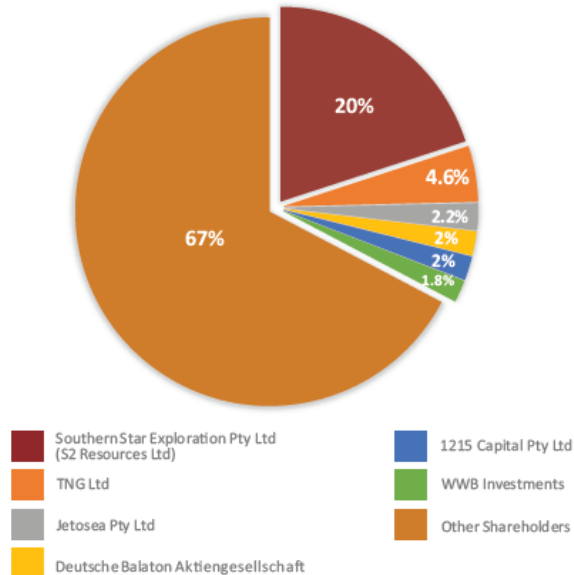
Todd River Resources: Corporate Overview



Key Corporate and Financial Data

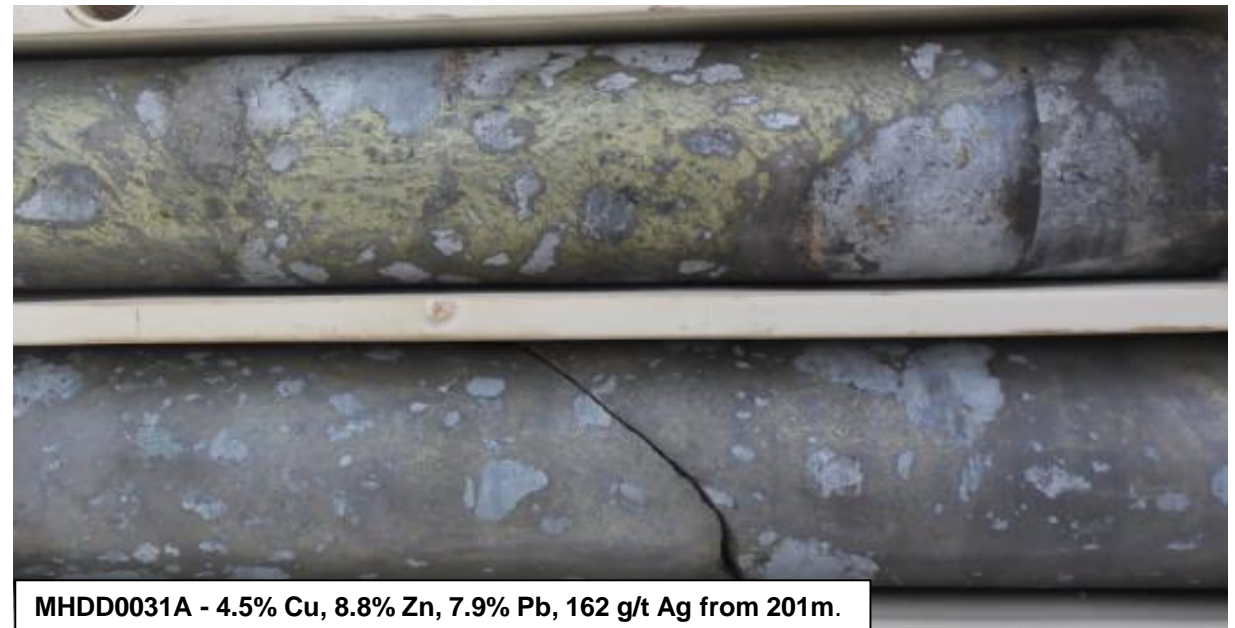
ASX code:	TRT
Shares on issue ¹ :	151.5M
Market Capitalisation (at 7.9c):	\$12M
Unlisted Options (various pricings):	24.5M
Listed Options (\$0.25 March 2020):	31.4M
Cash (December 2018):	\$4.7M

Major and Significant Shareholders



Board of Directors

Edward Fry	Non-Executive Chairman
Will Dix	Managing Director
Mark Bennett	Non-executive Director
Stuart Crow	Non-executive Director



Our Projects - Focus on Mt Hardy Cu-Zn Project



Mount Hardy (100% TRT): Copper-Zinc Discovery

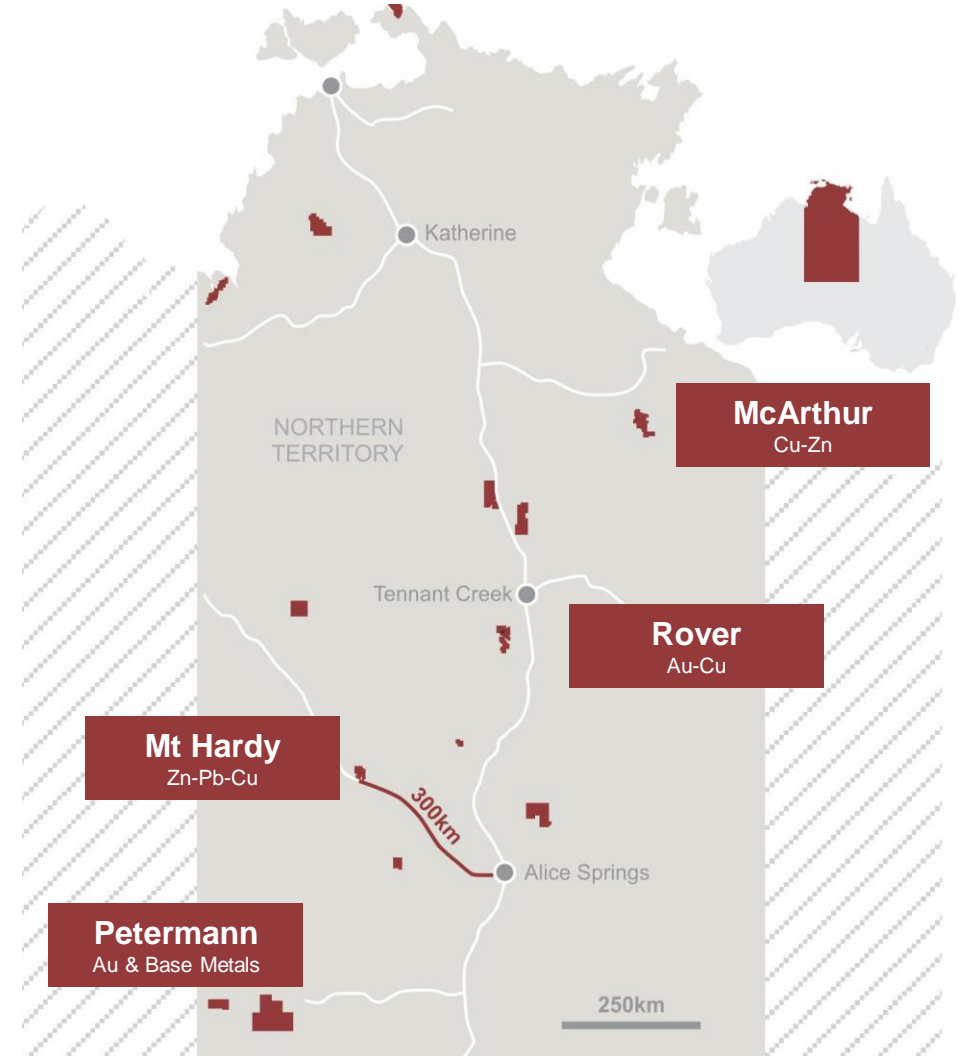
- Hendrix base metal Discovery- DRILLING RECOMMENCED
- Extensional Geophysics – RECOMMENCED
- Structural geological modelling – APRIL/MAY
- Regional drilling – MAY/JUNE

Rover (100% TRT): Gold-Copper

- Drill priority (top 3) “mag high” Au-Cu targets – COMMENCE APRIL
- Permits in place and rig scheduled to commence this month

Petermann Range (100% TRT): Gold-Copper

- Preparing for commencement of regional exploration
- Working through Mineral Exploration Agreement



Mount Hardy Copper-Zinc Project – The Path to Discovery



2012 – TNG Ltd purchased ELs from Walla Mines Ltd

- Immediately completed a 900line/Km HELITEM survey **identified 23 airborne EM targets**
- 7 RC holes drilled to test 4 targets (Mt Hardy, EM1 (Hendrix), EM2, and EM4) confirmed mineralisation ~100-200m deep

2013 – Completed IP & Gravity surveys, defined **17 priority targets**

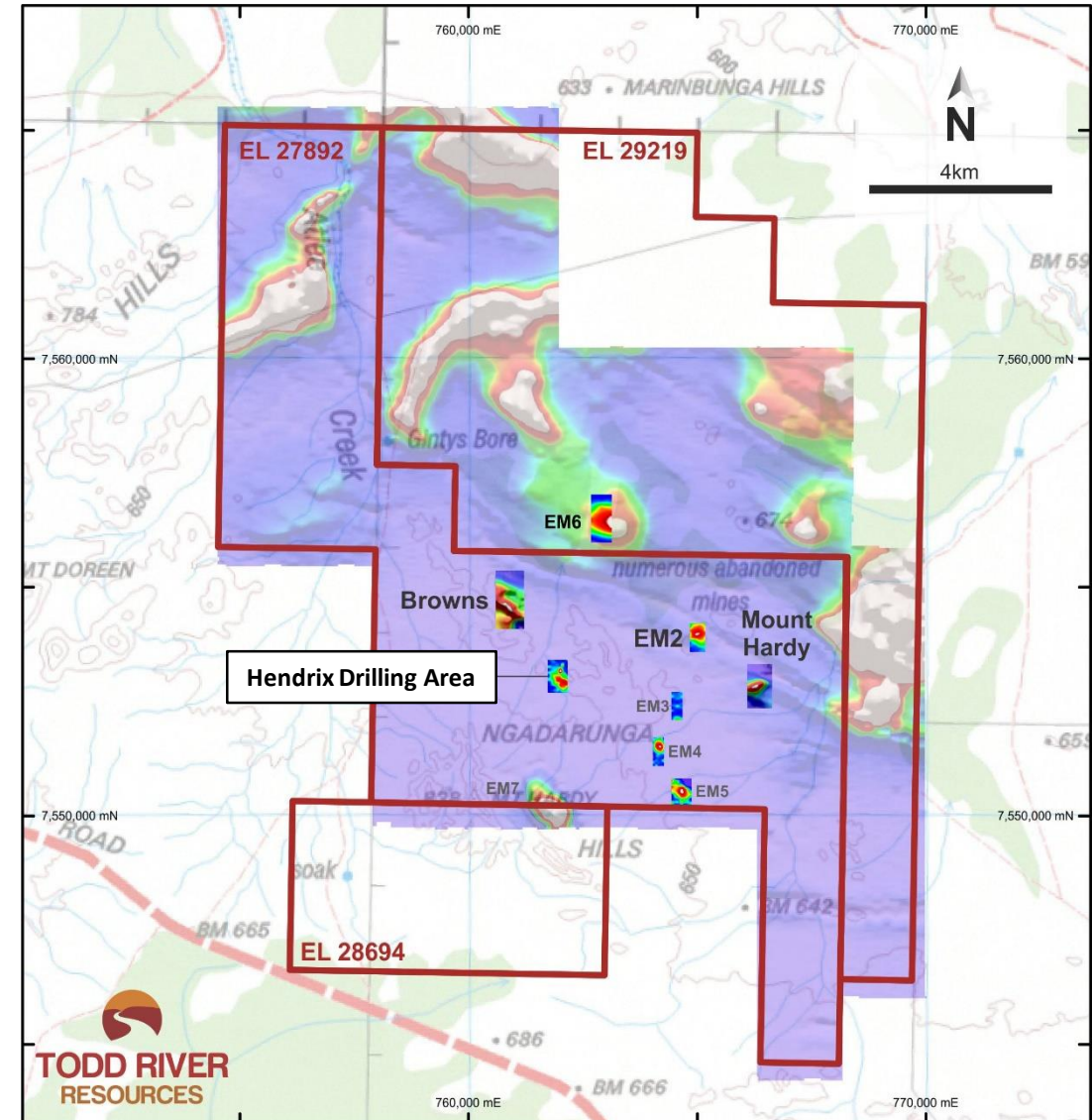
- 15 DD holes drilled and minor mineralisation intersected at Browns, Mt Hardy and **Hendrix** (hole MHDD0010, **21m at 6.8% combined BM**)

2017 – Mt Hardy transferred from TNG to TRT in spin-out

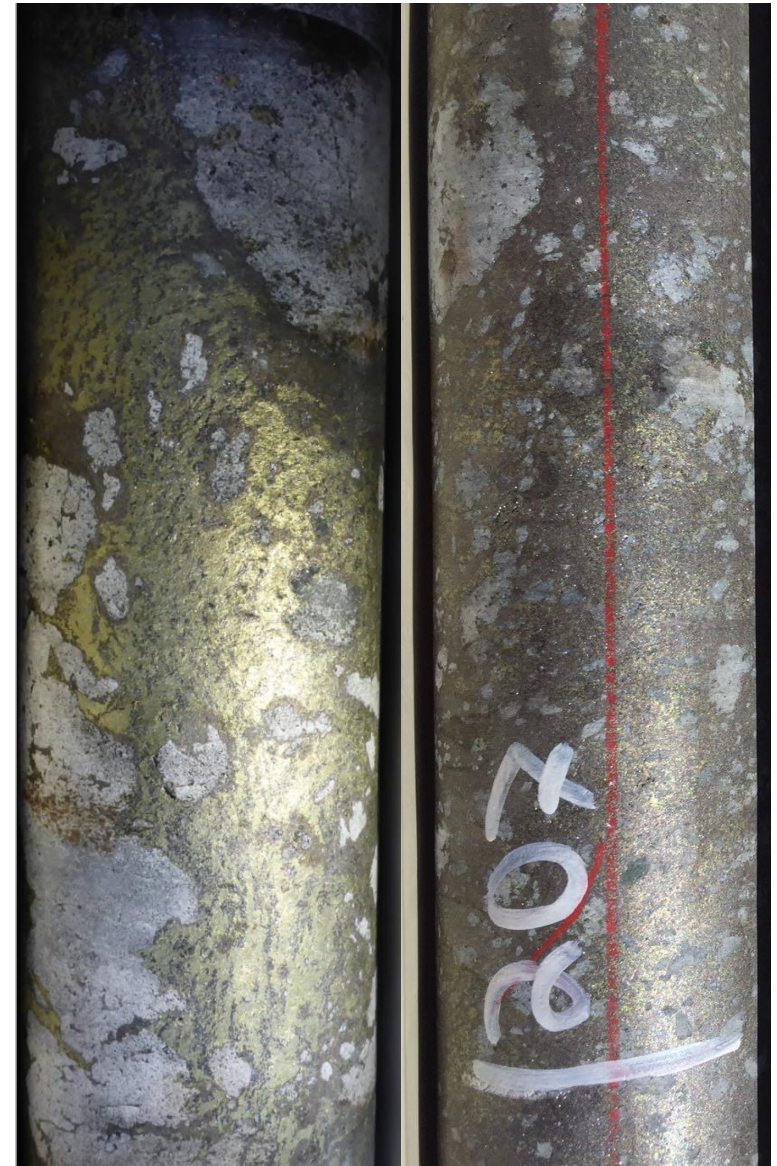
- 14 DD holes drilled targeting surface and DHEM conductors
- **further DHEM identified** new target plates at **Hendrix** & EM2

2018 - Drilling planned to test downhole EM conductor in MHDD0010 which intersected **21m @ 4.4% Zn**

- **First Hole at Hendrix - MHDD0031A intersected:**
- **25.15m @ 2.4% Cu, 4% Zn, 3.1% Pb from 184m**
Incl: 9.15m @ 4.5% Cu, 8.8% Zn, 7.6% Pb and 162g/t Ag



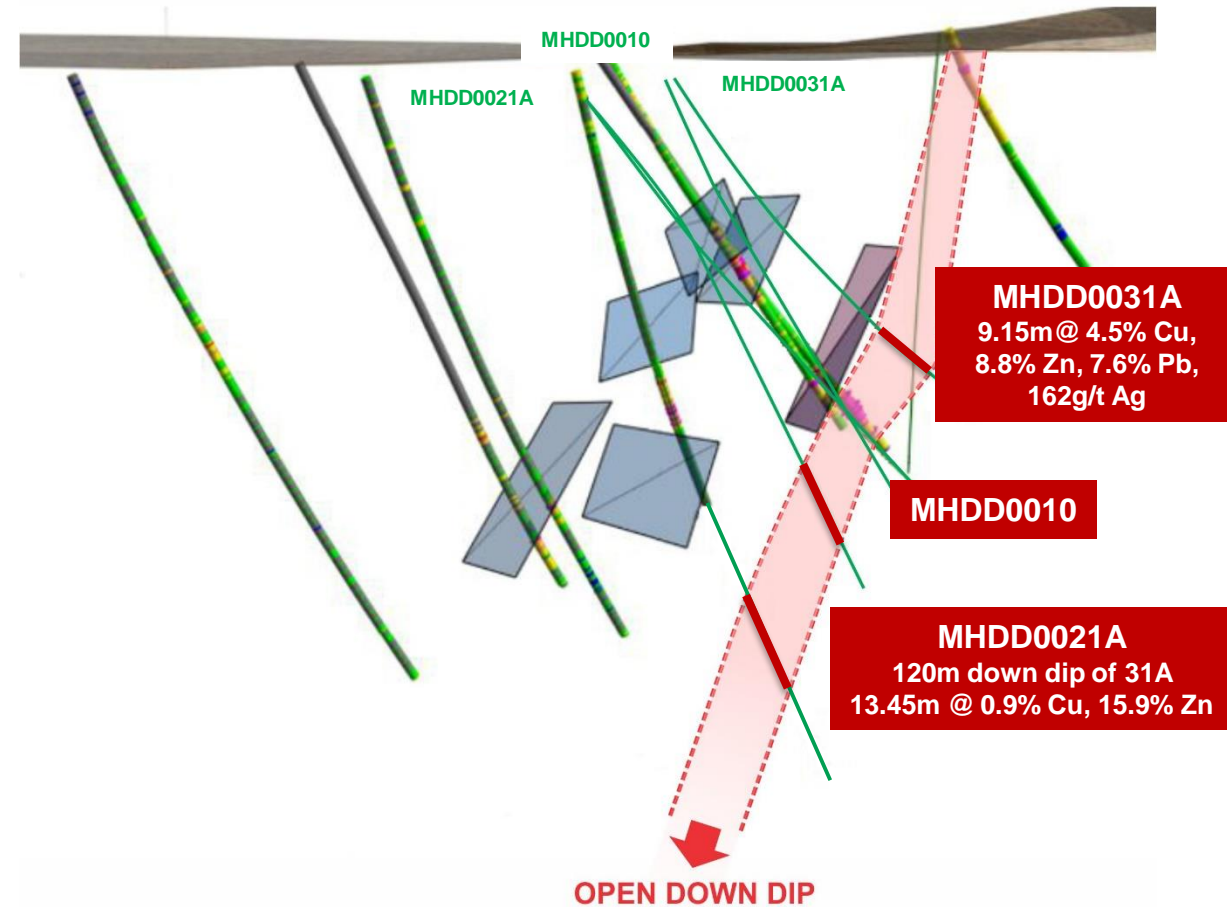
MHDD0031A mineralisation



Mount Hardy Copper-Zinc Discovery



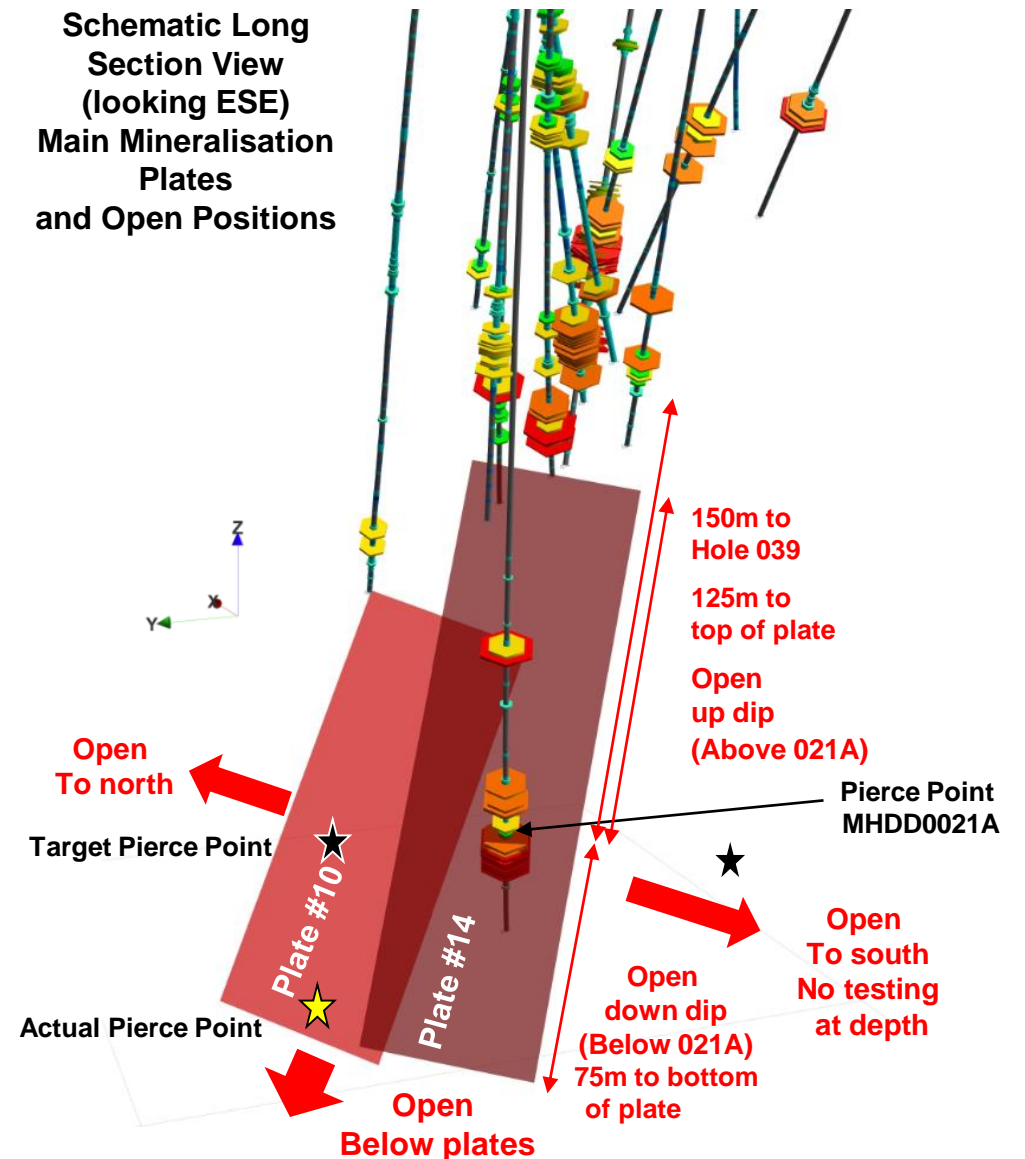
- First hole of 2018 (MHDD0031A) intersected significant base metal mineralisation. Assays returned:
 - 25.15m @ 2.4% Cu, 4% Zn, 3.1% Pb from 184m
Incl: 9.15m @ 4.5% Cu, 8.8% Zn, 7.6% Pb and 162 g/t Ag
- Identified other opportunities within existing drilling
- Extension of MHDD0021 drilled as follow up
- Hole MHDD0021A intersected further significant base metal mineralisation **120m down plunge** from MHDD0031A
 - **13.45m @ 0.9% Cu, 15.9% Zn, 5.75% Pb from 358.55m**
- Down Hole EM used to expand the exploration search window
 - Identified additional target areas



Mount Hardy Copper-Zinc Discovery – Geophysics Interpretation



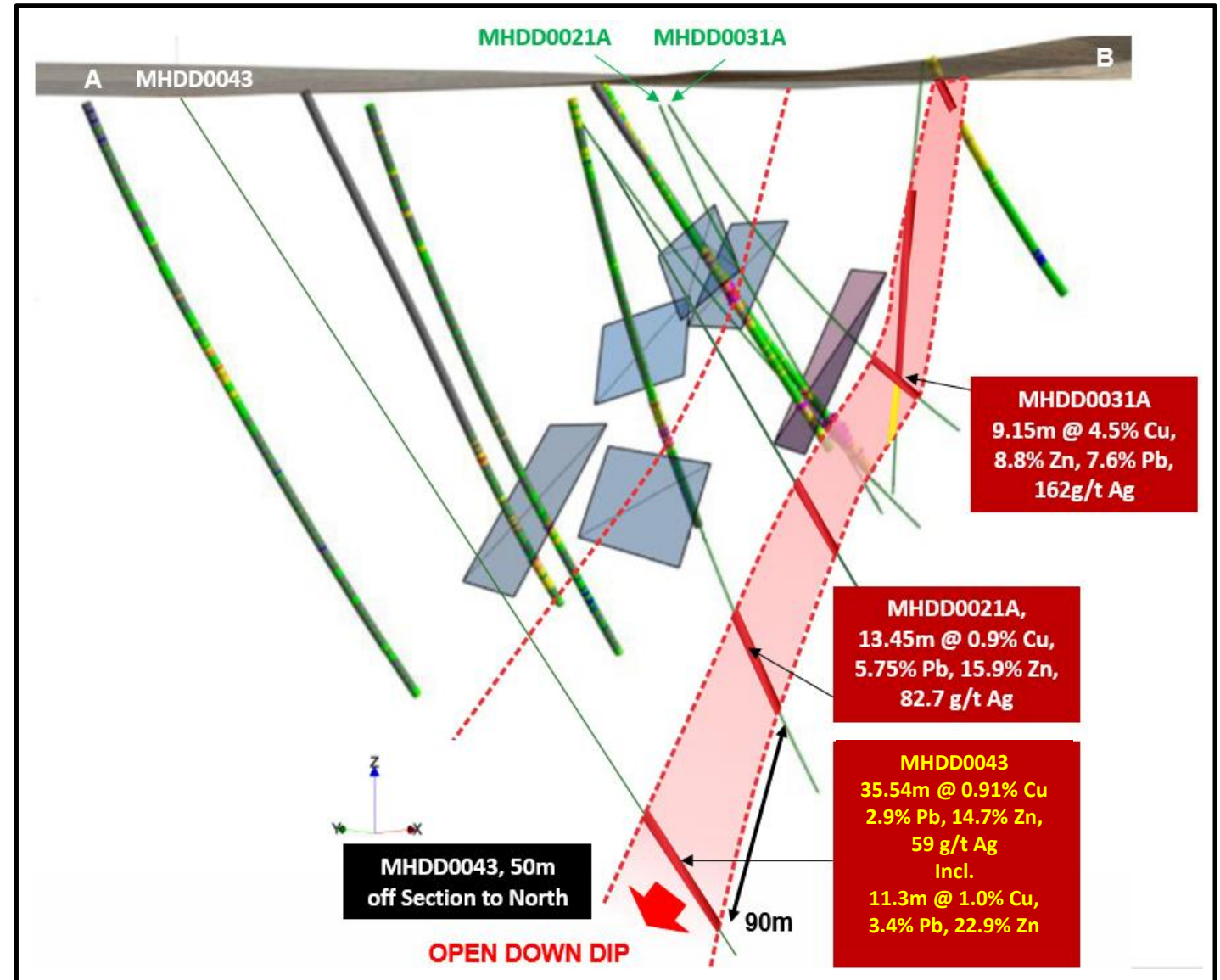
- Downhole EM identified plate extensions suggesting additional massive sulphide mineralisation
- **Main target zones below and to the north**
- 18 plates identified in total
- 5 high priority plates including Plates 10 and 14 at Hendrix
- **Area to the south still untested and OPEN**
- 13 other plates to be reviewed/tested over the next 12 months including targets away from Hendrix
- Stage 1 Detailed Moving Loop EM survey completed late in 2018



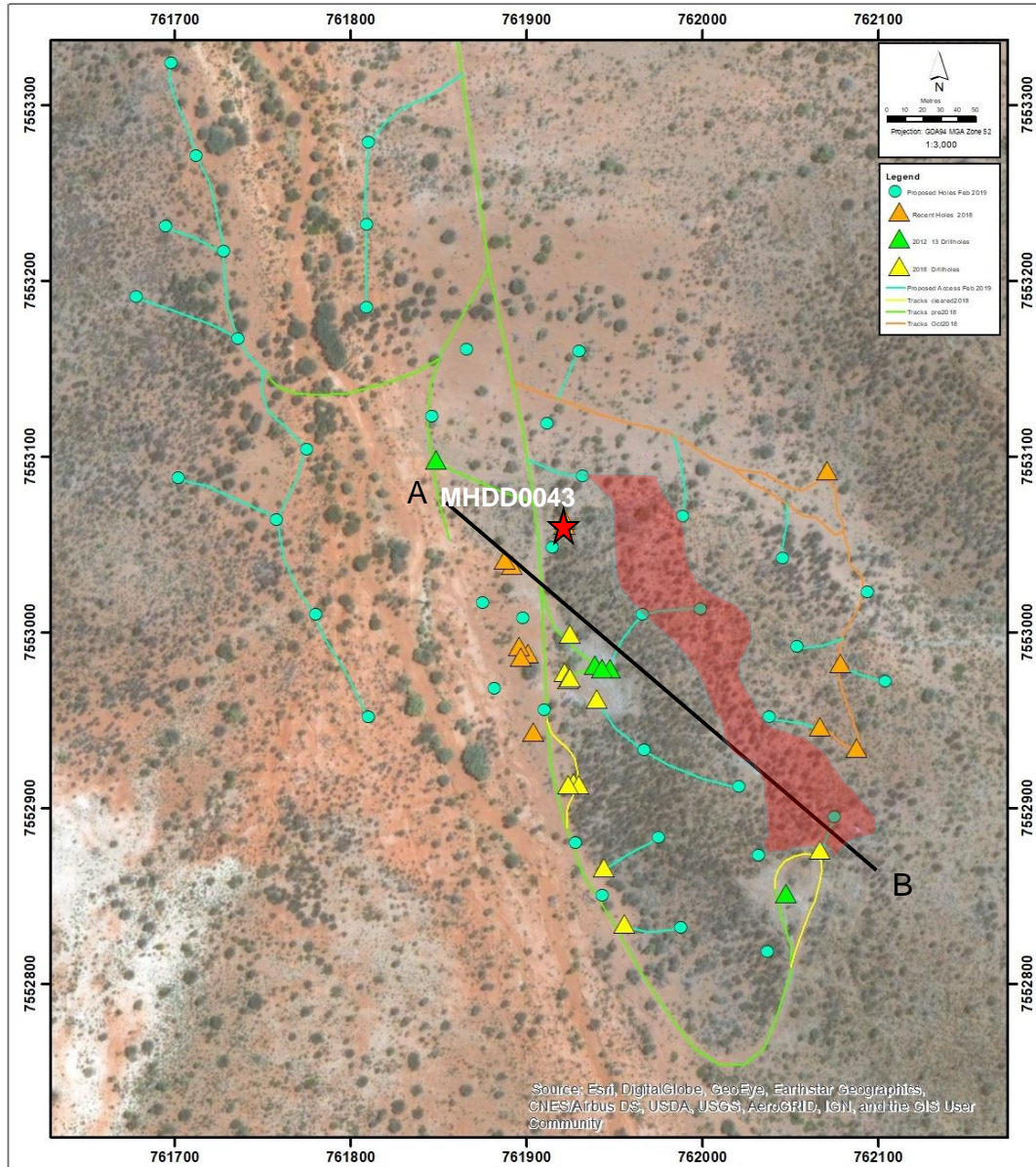
Mount Hardy Copper-Zinc Discovery – Phase 2 Immediate Success



- Stage 2 drilling (up and down dip and along strike)
Completed mid-December 2018
- Hole **MHDD0043** deeper and NORTH - significant base metal mineralisation **90m down dip and 50m north** of MHDD0021A:
 - **35.54m @ 0.91% Cu, 2.9% Pb, 14.7% Zn incl:**
 - **11.3m @ 1.0% Cu, 3.4% Pb, 22.9% Zn**
- **MHDD0042** deep and SOUTH of MHDD0043:
 - **24.54m @ 0.68% Cu, 0.29% Pb and 4.86% Zn**
- Geophysics suggests the thicker more continuous zone of mineralization is 80m north

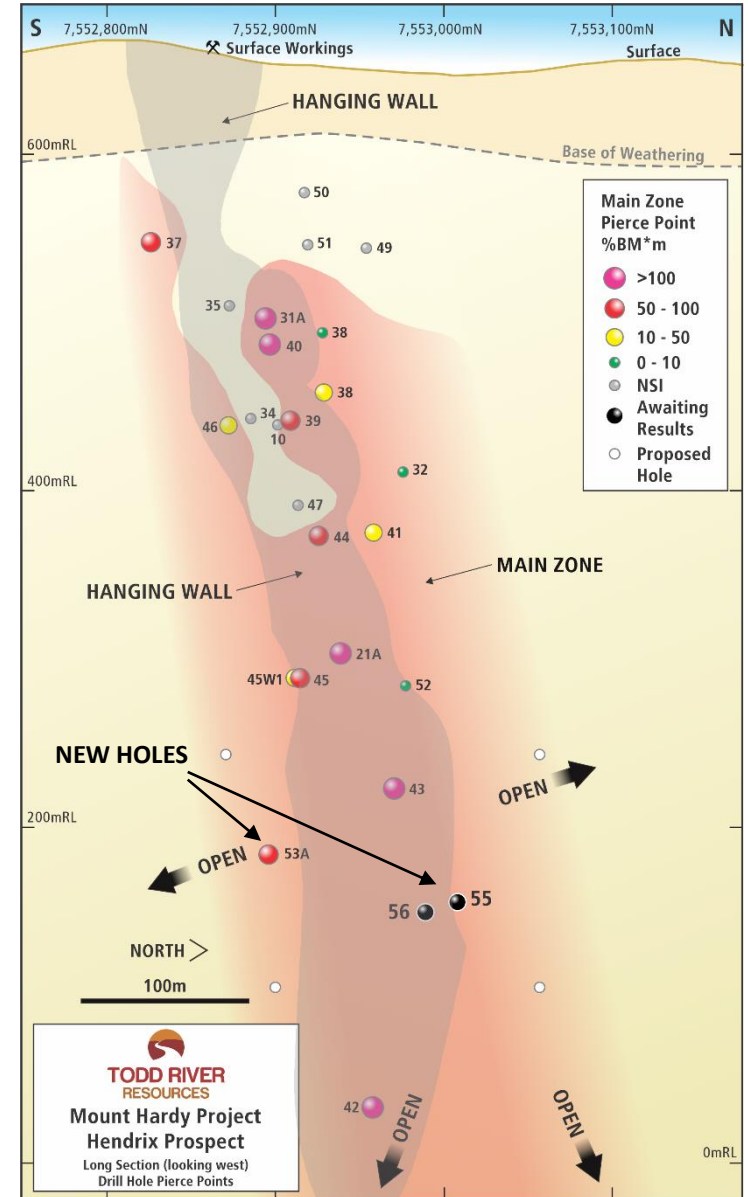


Mount Hardy Copper-Zinc Discovery – Plan and Long Projection



Collar location plan with X-section line showing completed and planned 2019 holes and approximate projection of the main mineralisation.

Long Projection looking ENE showing combined base metals and planned 2019 phase 1 pierce points.



Mount Hardy Copper-Zinc Project – First Pass Metallurgy



Metallurgical Sighter Program – designed to determine 3 things:

- Does the sulphide float?
- Can the metals be separated into individual concentrates?
- Are there obvious deleterious elements we need to worry about?

Outcomes:

- **3 separate high quality Concentrates Produced - Copper, lead and Zinc**
- Recoveries exceeding 85% with improvement expected through optimisation of the flowsheet
- **Zinc concentrate values indicate a premium product with low impurities**
- 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



Copper Concentrate



Lead Concentrate

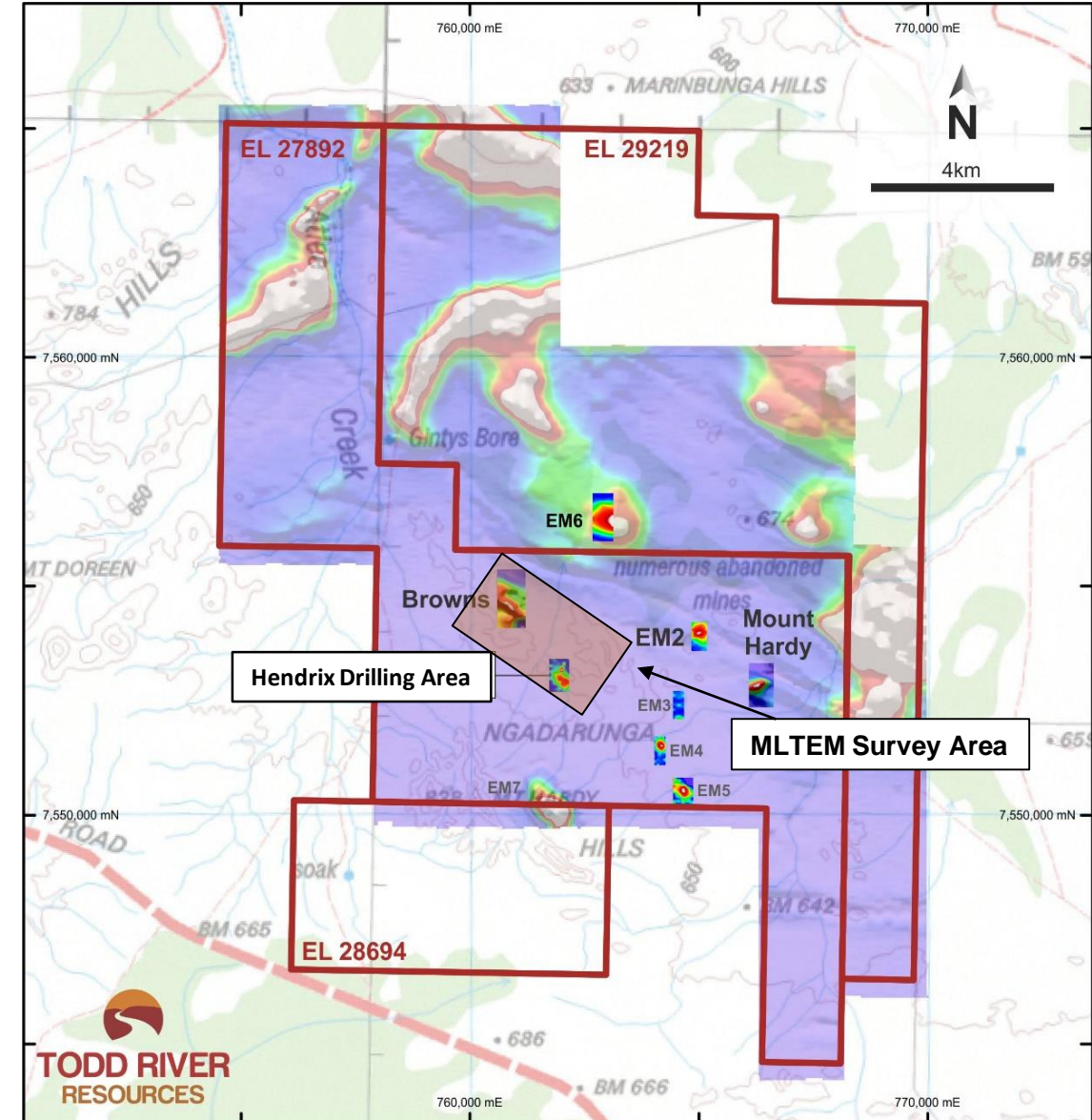
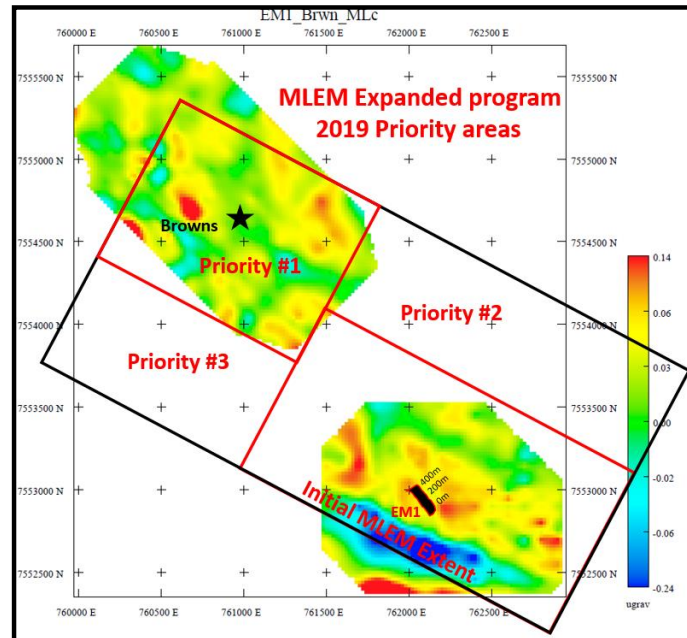


Zinc Concentrate

Mount Hardy Copper-Zinc Project – Regional Exploration



- Drill test conductors north of Hendrix highlighted in review of geophysics (possibly equivalent to HW position)
- MLTEM survey to continue and cover Browns as a first priority
- Regional mapping between EM5 and Browns to constrain MLTEM
- Follow up drilling at Browns (13m @ 1.17% Cu & 1.9% Zn drilled in 2013)
- Review of Mt Hardy – EM6 trend (Mt Hardy - 1m @ 9.44g/t Au) – no follow up





Diamond Drilling Recommenced 3rd March

- Initial 5,000m RC and Diamond program to focus on strike extensions and infill of 2018 drilling
- New Contractor DDH1 expected to improve efficiencies and effectiveness
- Expected timeline of 3 months to complete program with extensions should the results be in line with internal expectations
- DHTM as required

MLTEM program Recommenced this month

- Initially to focus on Browns and areas between Browns and Hendrix
- Combine with structural geology to produce working 3D model to aid vectoring
- Drill test conductors north of Hendrix highlighted in on-going analysis of geophysics

Many additional targets to pursue including a number of targets away from Hendrix



Rover: Gold-Copper

- Drill priority (top 3) “mag high” Au-Cu targets – time line set due to collaborative funding constraints – will commence in April

Petermann Range: Gold & Base Metals

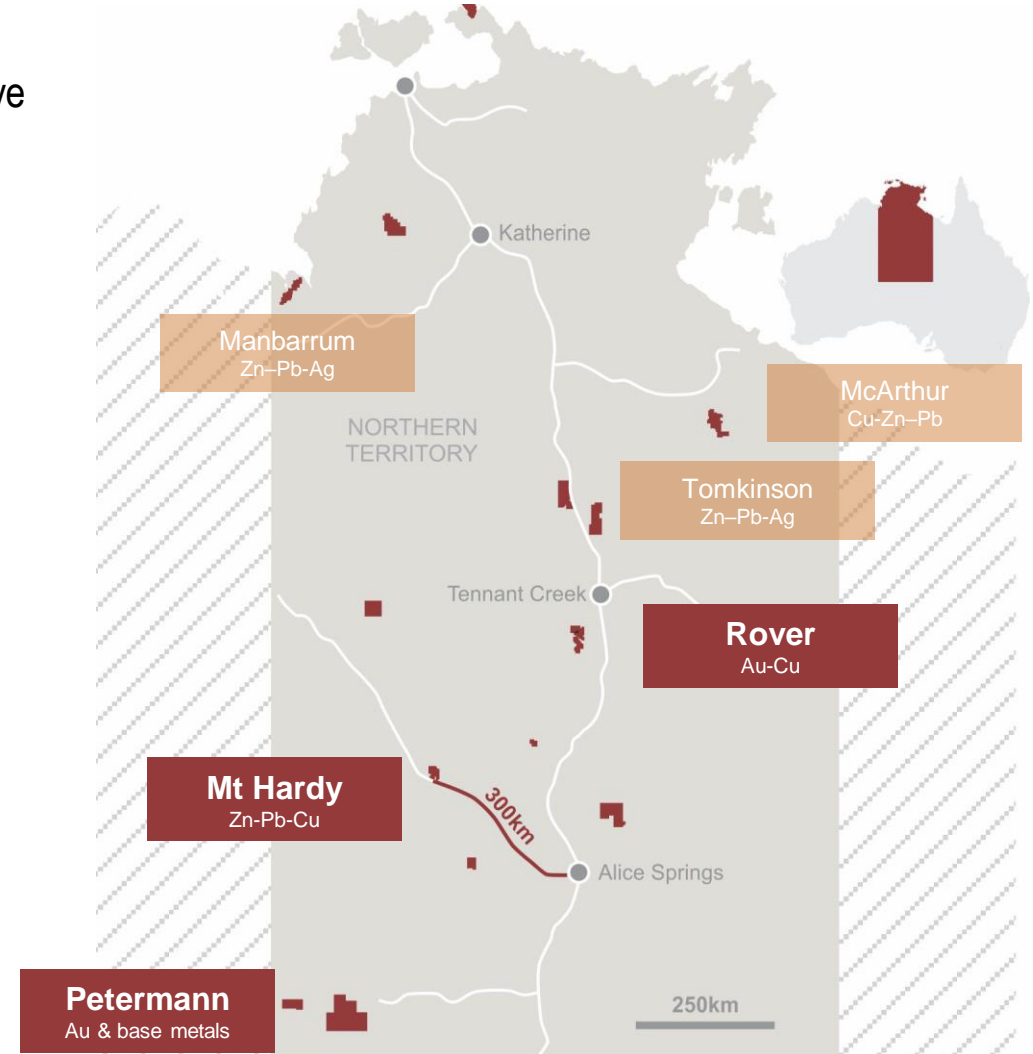
- Exploration Agreement currently being negotiated with the objective to be commencing on-ground exploration during Q3 2019
- Desk top work already commenced

McArthur River: Copper-Lead-Zinc

- No on-ground work planned for 2019
- CSIRO collaboration and Adelaide University Honours Projects to review geophysics and refine stratigraphy

Manburrum Project

- Considering a number of strategies to move the project forward



Summary – 2019 The Plan



- New Board and technical management - **NEW APPROACH**
- **BASE METAL DISCOVERY AT MT HARDY** – Expansion along strike and infill from deep holes
- **5,000m already planned and expected to expand**
- MLTEM surveying to continue at Mt Hardy to cover high priority areas
- Drilling new targets away from Hendrix - June Quarter
- Drilling planned at Rover –April 2019 (collaborative Funding)
- Petermanns Range Project moving to grant.
- Well Funded with solid capital structure and very supportive new cornerstone investor - **HIGHLY LEVERAGED TO SUCCESS**



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COMPETENT PERSON'S STATEMENTS

- This information in this announcement that relates to exploration results is extracted from ASX Announcements titled:

“Prospective Rover Copper Gold Tenements Secured” lodged on 2 August 2017

“Assay Results Confirm High Grade Discovery at Mount Hardy” lodged on 20 June 2018

“High Grade Assays Confirm Base Metal Discovery at Mt Hardy” lodged on 2 August 2018,

“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

“Todd River Gears Up For Major Exploration Push At Mt Hardy” lodged on 21 January 2019

“Excellent Results from Metallurgical Testwork at Mt Hardy” lodged on 27 February 2019 and

“Diamond Drilling Update – Mt Hardy Project, NT” Lodged on 9 April 2019

which are available to view at www.trrltd.com.au and 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 announcement. 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.

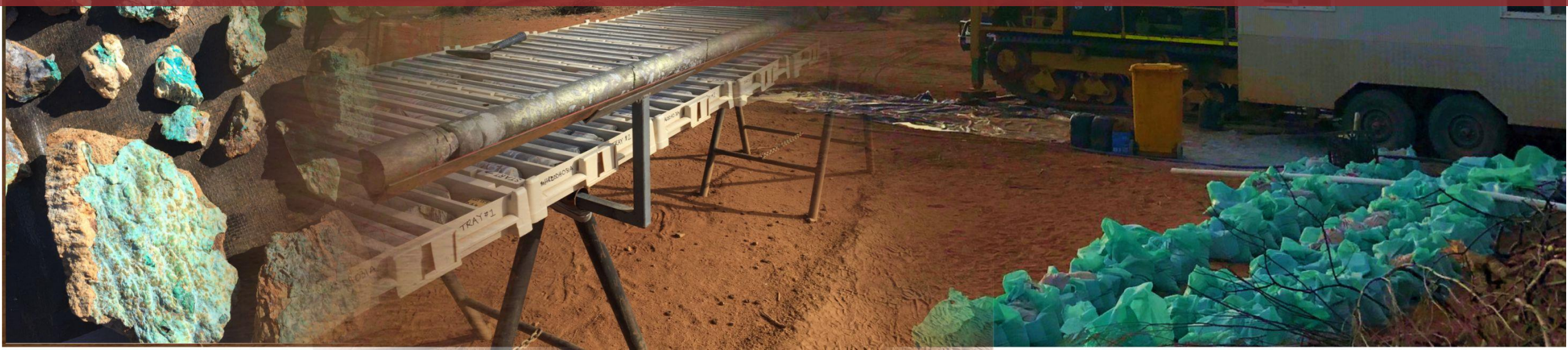
- The information in this announcement that relates to the estimation and reporting of the Sandy Creek Mineral Resource is extracted from the Independent Geologists Report included in the Prospectus lodged on 31 January 2017 and the Supplementary Prospectus lodged on 10 February 2017 which are available to view at www.trrltd.com.au and 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.



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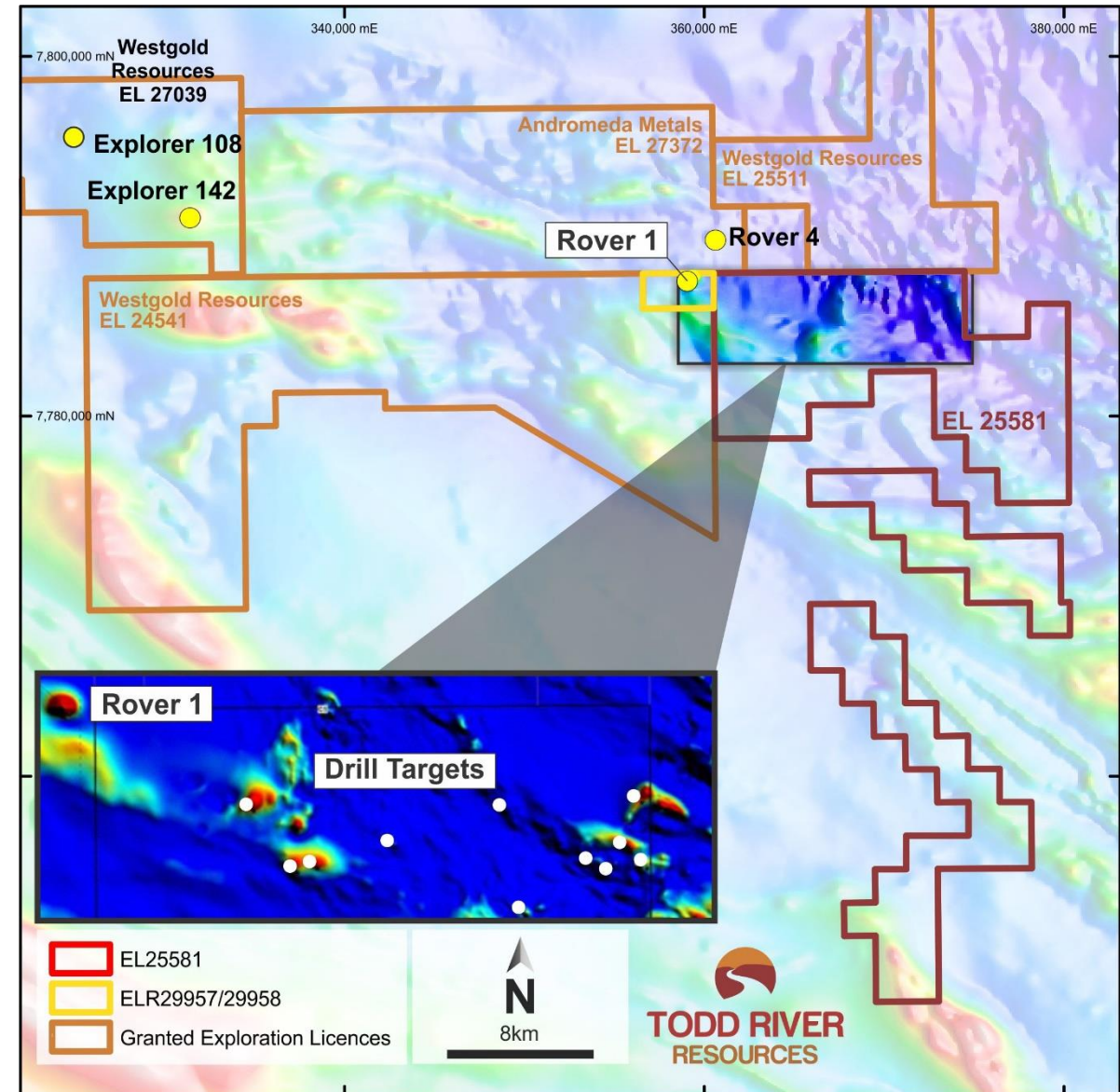
Appendix – Pipeline Projects



Rover Gold-Copper Project



- Prospective for high grade Tennant Creek style Au-Cu-Bi mineralisation
- Westgold's 1.2M Au Equivalent Ounce Rover 1 deposit is a classic example
- Simple exploration model – magnetite+gold so focus on mag highs
- TRR has at least 4 walk-up drill targets – drilling timing constrained by collaborative funding – needs to be completed by April/May 2019



Rover Gold-Copper Project – drill targeting



Drill target modelling. Planned drill hole traces into modelled wireframe magnetics/gravity highs.

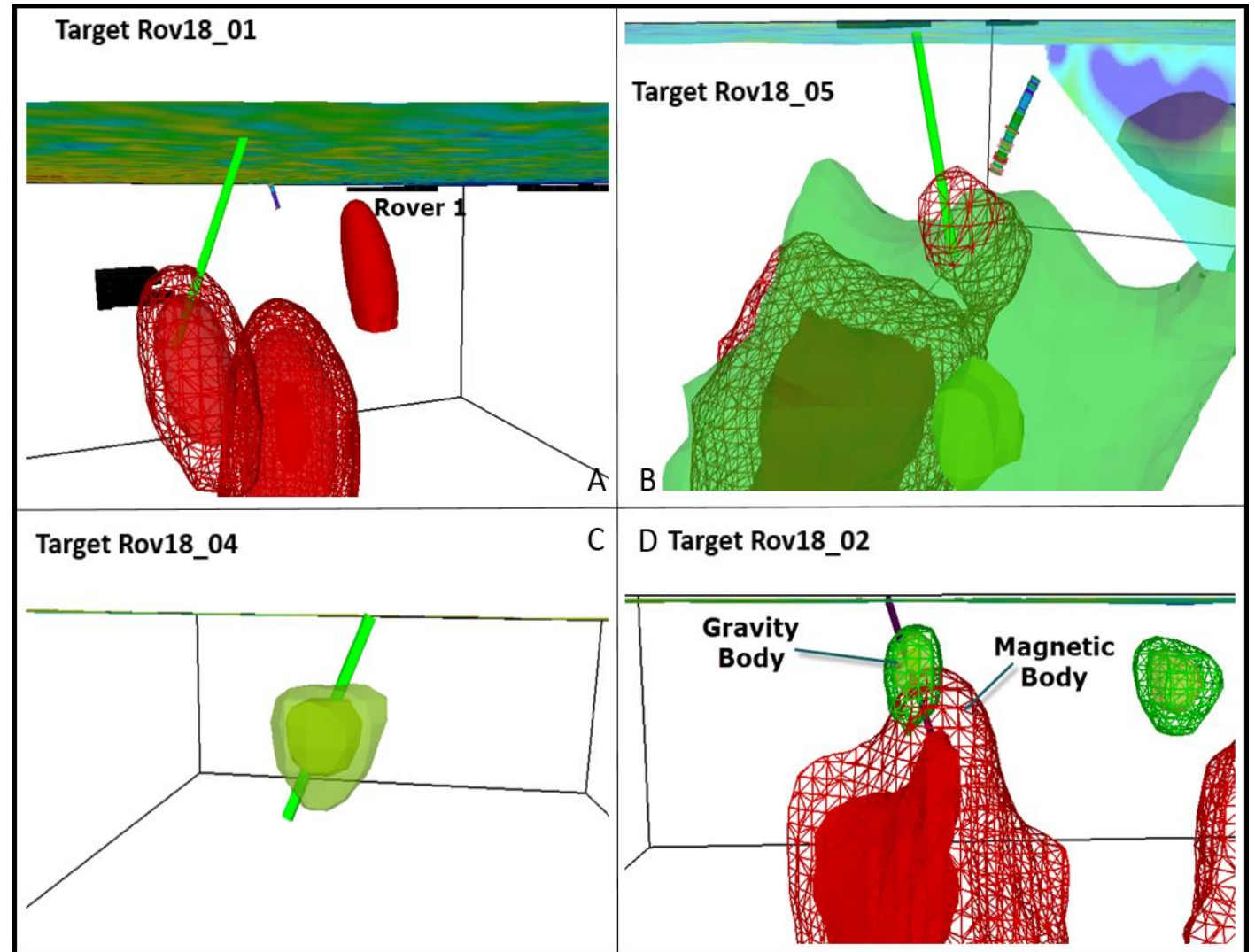
2 Priority Holes

A - Target Rov18_01

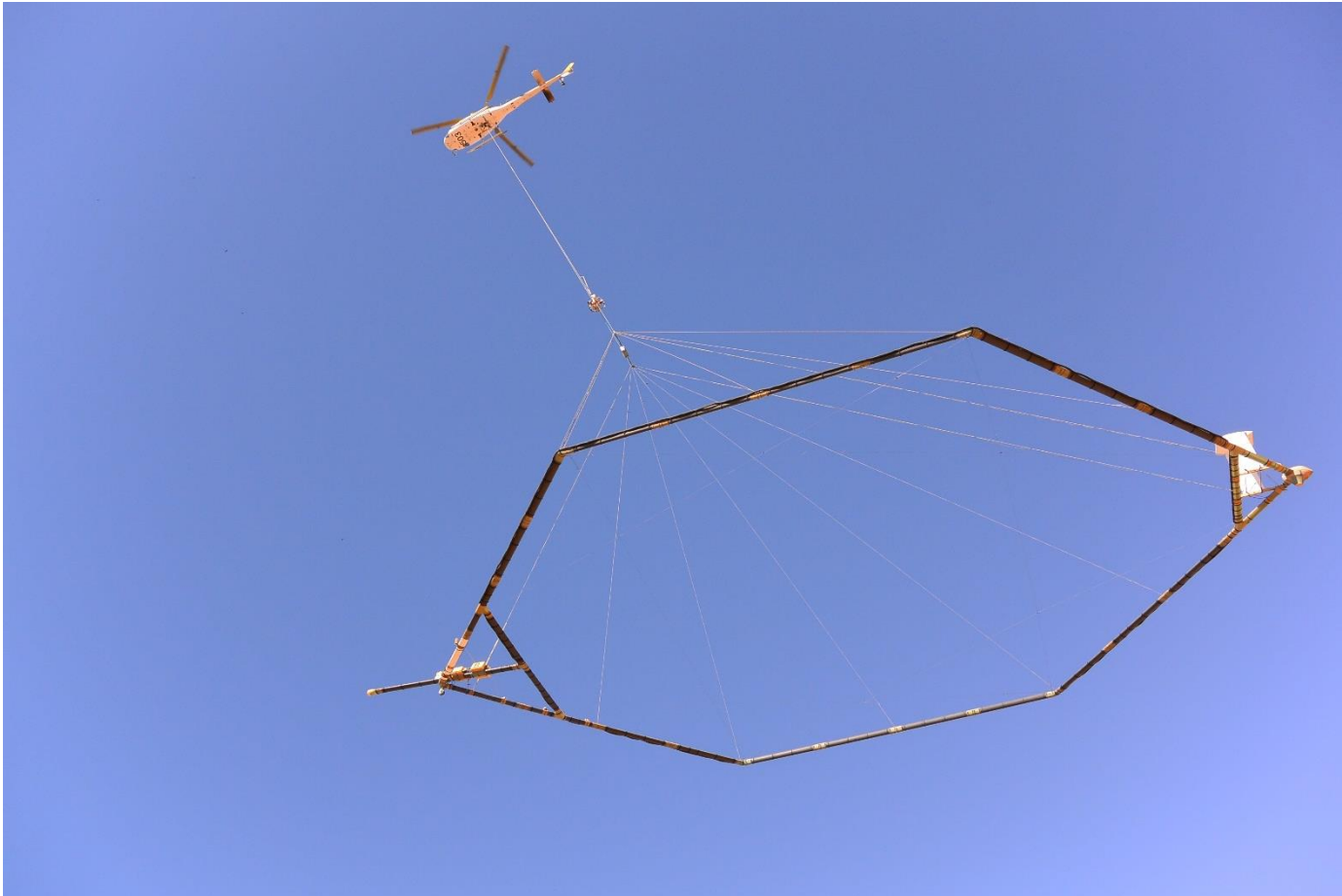
- Steep north dipping magnetic anomaly (red wireframe, 0.0275 TMI).
- Strongest mag. signature in tenement and equivalent depth to Rover 1 (350m).

B - Target Rov18_05

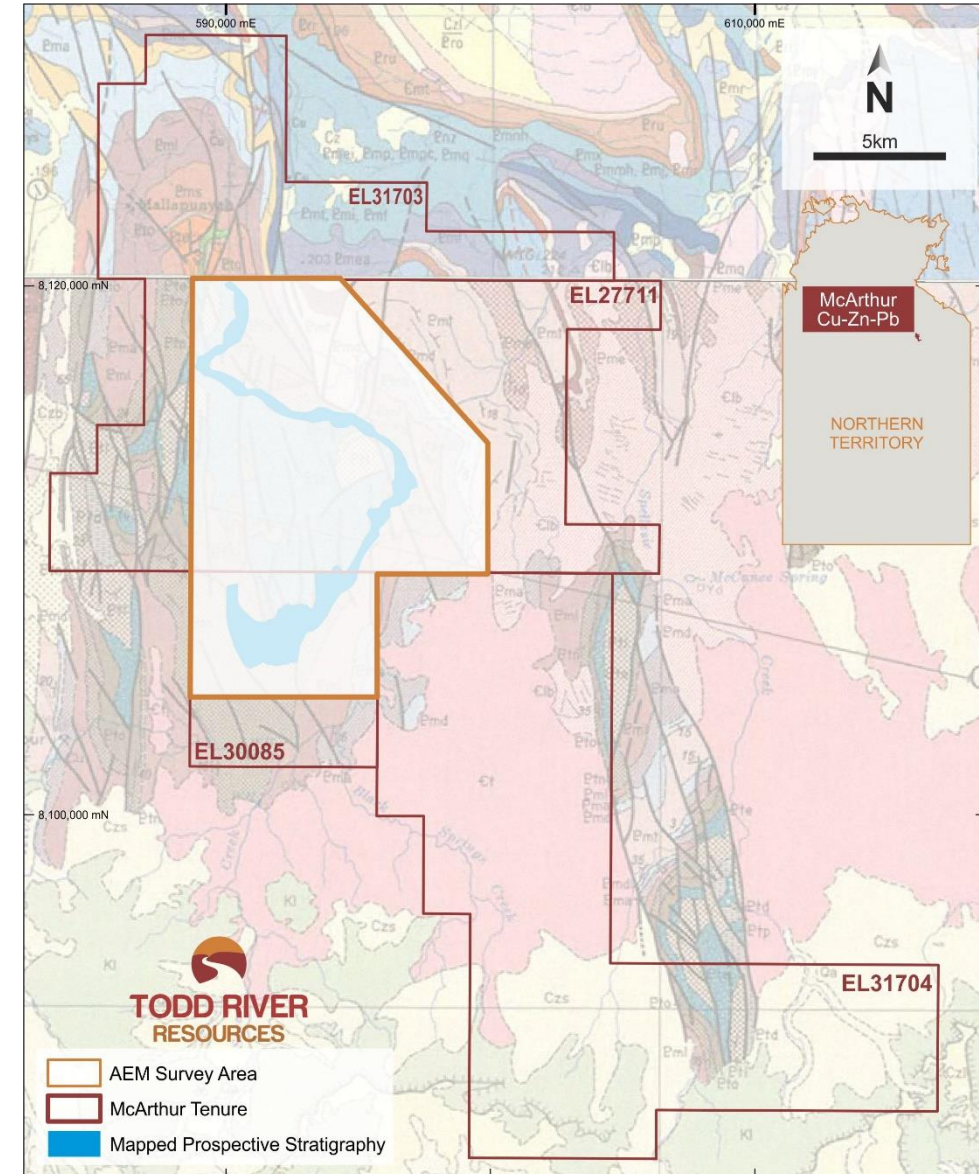
- Magnetic body (red wireframe) target above larger deep magnetic body with associated gravity/density anomaly (green body).
- WDR drilled to within 25m of top of target



McArthur River Copper Project



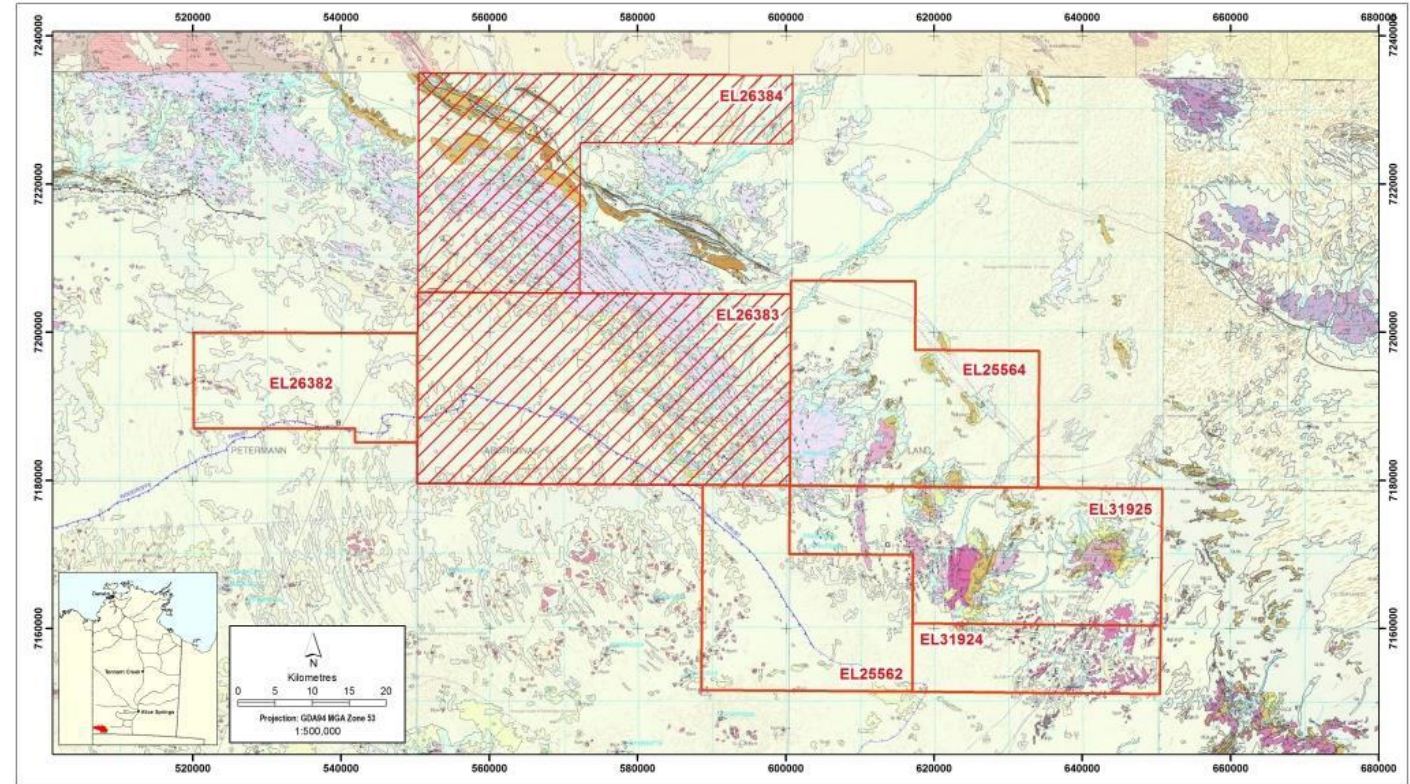
- SkyTEM survey collecting over 600 line Km of data during late 2017 - McArthur River Copper-Zinc Project
- Recently doubled tenure to the north and south



Petermann Range Project



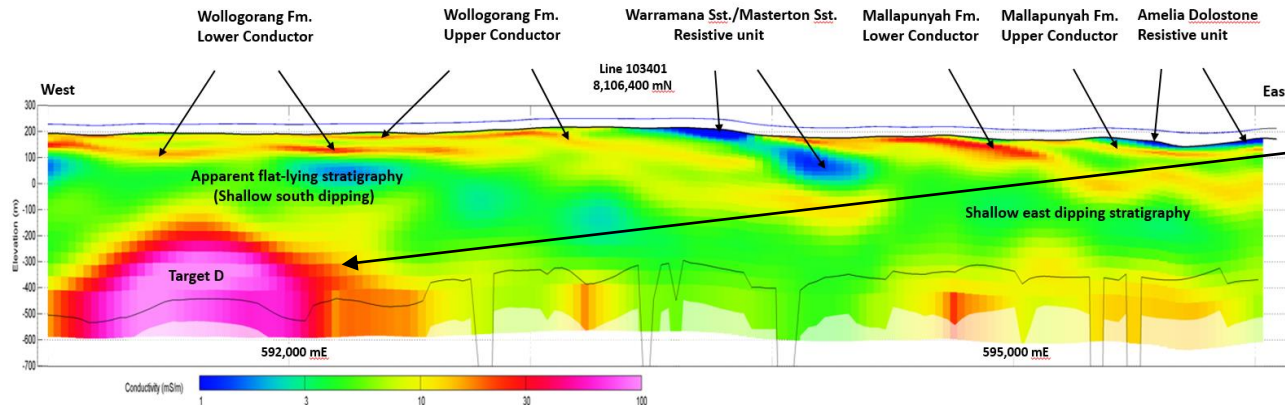
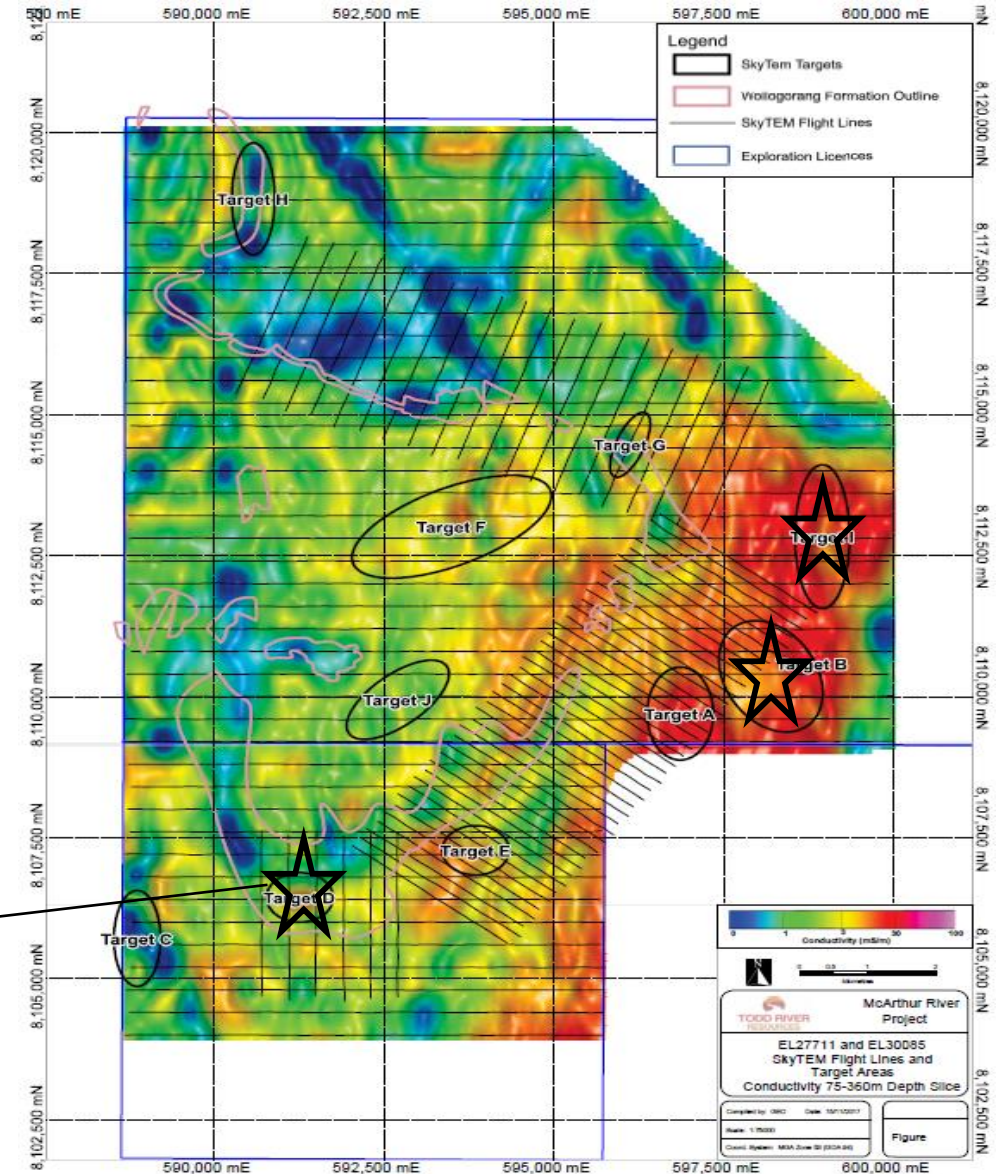
- Land access meetings held April 2018 – 5 tenements proceeding to grant.
- 5,100Km² of tenure (2,800Km² to grant).
- No modern exploration (last 40 yrs).
- Plan to be on the ground 1st half 2019 or late 2018.
- First pass – mapping, broad surface sampling and airborne geophysics over priority areas.
- Longer lead time but elephant country.



McArthur River Copper Project



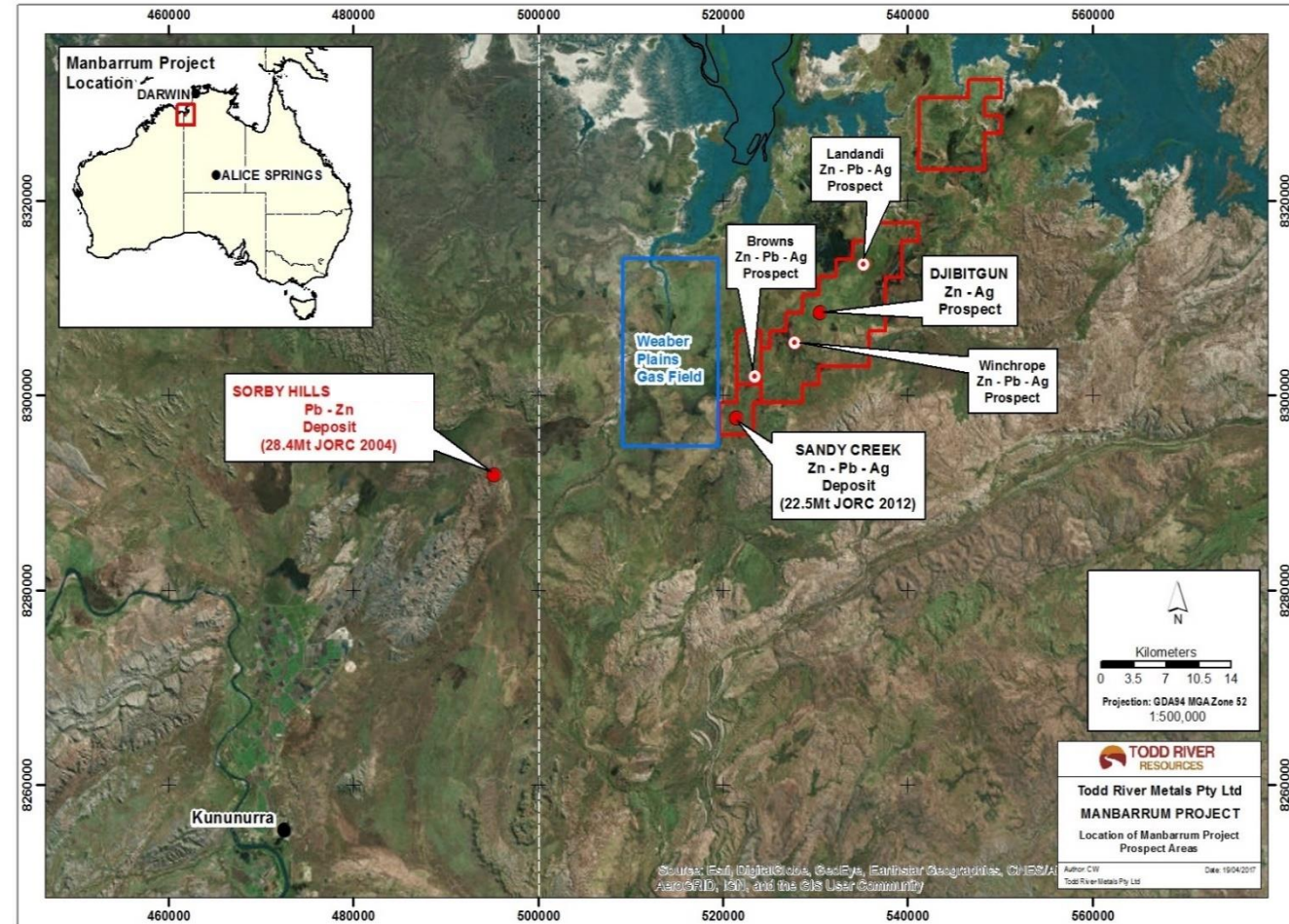
- 600 line km airborne electro-magnetic survey completed in 2017 – targeting Tawallah Group
- Ten strong geophysical anomalies outlined from interpretation of SkyTEM survey
- Mapping and sampling completed in 2017
 - Up to 44.5% Cu in rock chip samples
- Drilling of initial 3 hole program completed in 2018 - minor sulphides in MCDD0004
- Currently a CSIRO collaborative geophysics/basin analysis project underway – TRT cost subsidised by Fed Gov grant and CSIRO
- No field work planned for 2019



Manbarrum Zinc-Lead-Silver Project



- Conceptual mining study completed
- **Positive outcome at base-case**
- Excellent results when optimised
- Further work required on processing and costings
- **22.5Mt @ 2.25% Zn+Pb JORC resource***
- Reviewing regional & corporate opportunities



Manbarrum Project and Prospect locations including the Sorby Hills Project now subject to a Sale and Purchase agreement between Quintana Resources and Pacifico Minerals

* 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



TODD RIVER RESOURCES



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