

Superior  
Resources  
Limited

# Annual General Meeting 2015

27 November 2015





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The information in this presentation that relates to exploration results in respect of the Greenvale, Riesling and NW Qld lead/zinc projects is based on information compiled by Mr Ken Harvey, a director and shareholder of the Company, who is a Member of the Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. Mr Harvey has sufficient experience which is 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. Information relating to mineral resources are based on information compiled by Mr Ken Harvey as a Competent Person under the 2004 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Harvey consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.



- ASX listed junior explorer
- First-Tier calibre exploration projects
- Potential early cash flow from Tick Hill Gold Project
- Material exposure to:
  - Zinc – Copper – Gold
    - NW Qld projects – Zinc/Lead – Copper
    - Riesling – Zinc/Lead/Copper
    - Tick Hill Gold Project – Gold
    - Greenvale Copper – Copper
- 5 “company-making” projects

# Corporate Summary

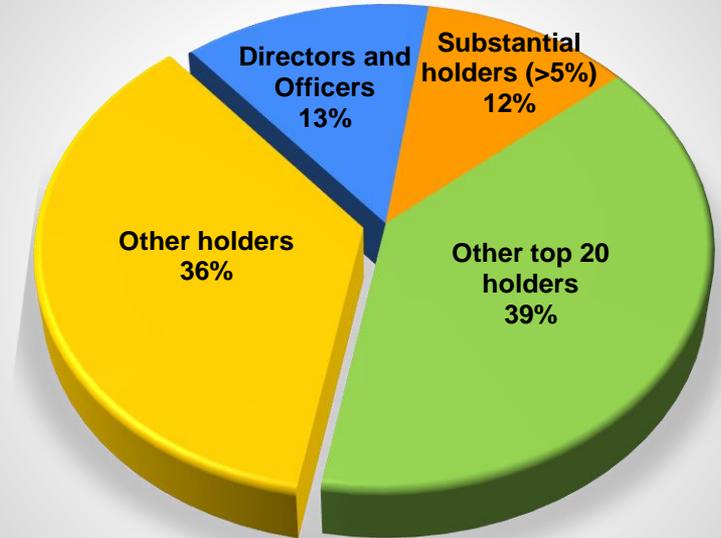


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**ASX CODE: SPQ**

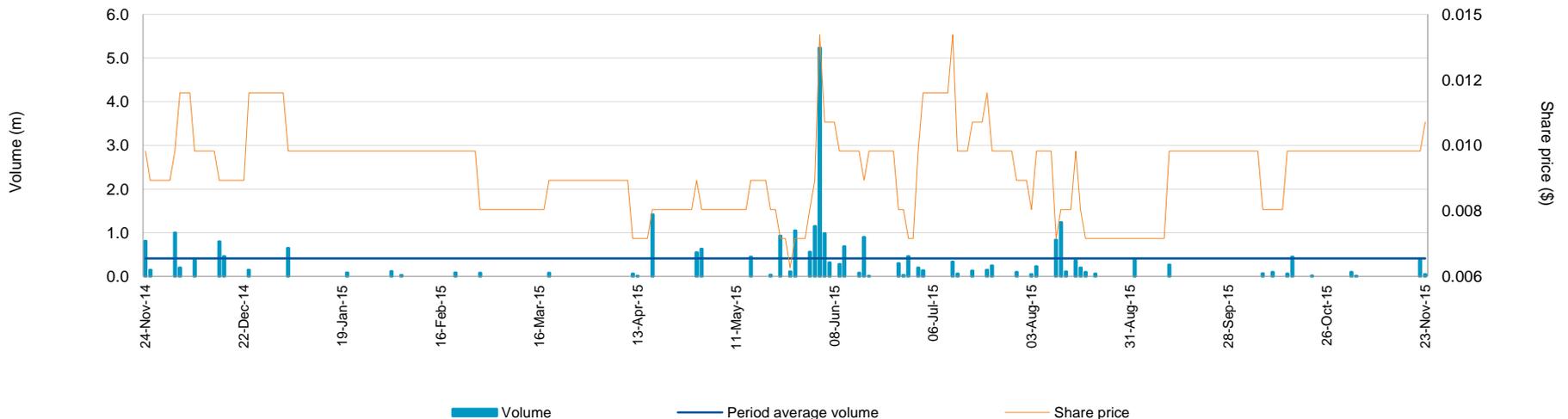
<b>Ordinary shares</b>	<b>239 million</b>
<b>Options (listed/unlisted)</b>	<b>Nil</b>
<b>Market cap.</b>	<b>\$2.6 million</b>
<b>Cash and listed assets</b>	<b>A\$165,000</b>
<b>7,000,000 DYL Shares</b>	<b>A\$70,000</b>
<b>Debt</b>	<b>Nil</b>
<b>Shareholders</b>	<b>499</b>

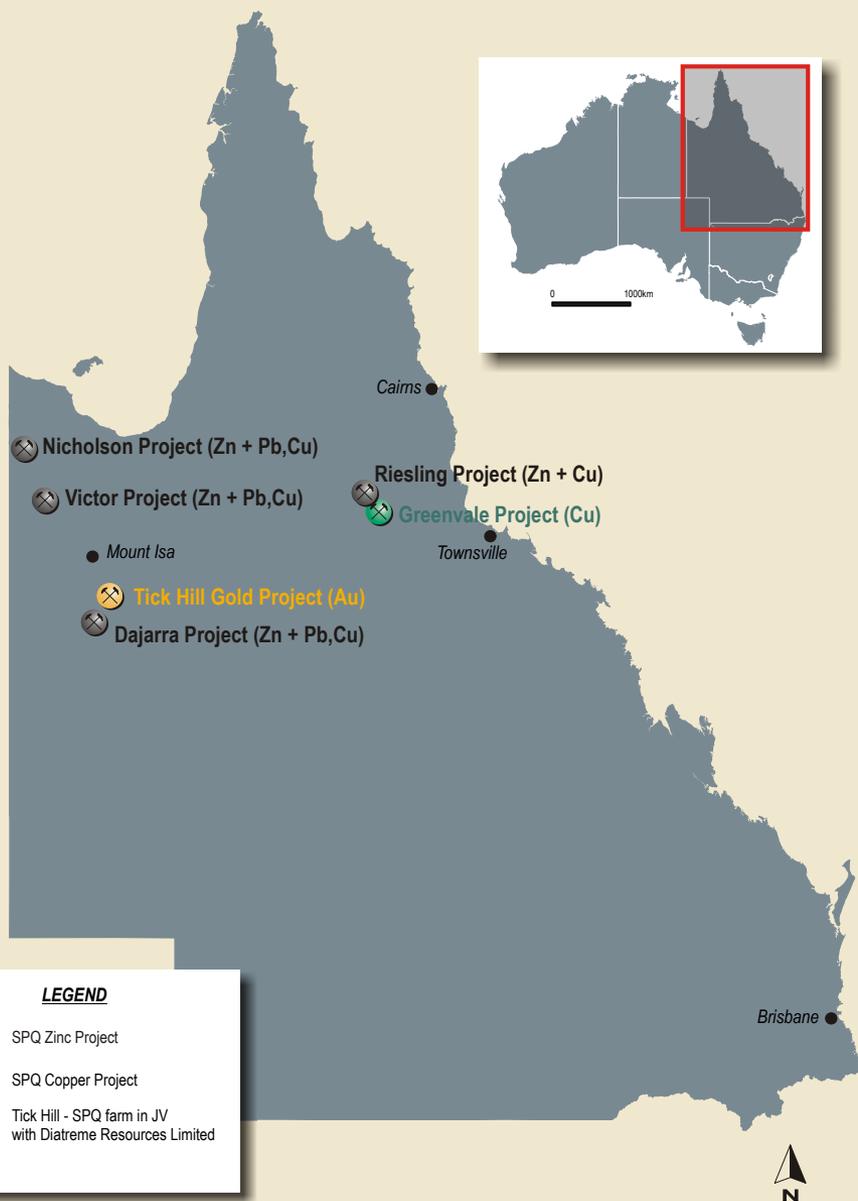
## Share Structure



Total top 20 holders: 64.00%

Price and volume





## ❖ Gold

- Tick Hill Gold Project
- Tick Hill Tailings Project

## ❖ Zinc-Lead-Copper

- Victor Project (Mount Isa Style)
- Nicholson Project (Mount Isa Style)
- Riesling Project (Broken Hill Style)
- Dajarra Project (Mount Isa Style)

## ❖ Copper

- Greenvale Project (VMS and Porphyry Copper)



- **Carlos Fernicola – Chairman**
  - Over 30 years in accounting, taxation audit financial services industry, Chartered Company Secretary
- **Peter Hwang – Managing Director**
  - 17 years in resources and corporate law, 6 years in mineral exploration
- **Ken Harvey – Non-executive Director**
  - 42 years in base metals mineral exploration, project evaluation, resource estimation and exploration management

## Tick Hill Gold Project

- Facilitated completion of project sale agreement
- Completed regulatory compliance for test work programs
- Completed initial drill testing of Tick Hill Tailings
- Near completion of metallurgical testing of tailings

## NW Qld Projects (Lead-Zinc-copper-silver)

- Secured Farm-in and JV with Teck Australia on Nicholson Project.
- Expanded tenement area of Victor Creek Lead-Zinc-copper project
- Database remodelling – increased potential for Mount Isa type Lead-Zinc (copper-silver) mineralisation
- Delineation of several high priority Lead-Zinc targets





## Riesling (Zinc-Lead-Copper)

- Intensely high order zinc-lead-copper soil anomaly
- Drilling to commence next week

## Greenvale (Copper)

- Drill-ready potential large porphyry targets:
  - **Cockie Creek prospect:** previously reported JORC inferred resource of 13Mt @ 0.42% copper
  - **One Mile prospect:** porphyry copper potential
  - **Wyandotte prospect:** shallow high grade supergene and deeper porphyry potential (historical work: 5.8m @ 7.8% Cu and 13.4m @ 3.6% Cu)
  - **Halls Reward Copper Mine:** shallow high grade supergene and deeper porphyry potential (historical production: 12,800 tonnes of ore at a grade of 17% copper, 5g/t gold and 23g/t silver)
  - **Bottletree prospect:** porphyry copper potential
- Developing potential for a multi-deposit central plant production operation



## ❖ Objectives:

- **Commodities Focus: Zinc – Gold – Copper**
  - Strong fundamentals
- **Quality project assets:**
  - Substantial exposure to zinc and copper sectors
  - Potential company maker gold target
  - Gold tailings project
- **Develop asset portfolio:**
  - In-ground exploration
  - Drilling of key targets
- **Funding:**
  - Tick Hill gold tailings project
  - Asset level – JVs and Farm-ins
- **Identify new project and corporate opportunities**
  - Advanced stage project acquisition
- **Cash conservation**



## ❖ How will we achieve objectives?

- **Commodities:** Zinc + Copper + Gold
- The “Next Mt Isa”: SPQ holds commanding position to discover another world-class Mt Isa style Lead/Zinc deposit
- **Funding:**
  - Progressing Tick Hill gold tailings project
  - Earn-in and JV with Teck Australia
  - Seeking JVs and Farm-ins
  - R&D tax incentive ADVANCE FINDING from Ausindustry – Tick Hill
- **Develop current assets**
  - Drilling high potential targets – e.g. Riesling
  - Progress Victor Project – NW Qld Zinc
- **Pre-production project acquisition**
  - Discussions with strategic financial backers
- **Salary and overhead reductions**

# Tick Hill Gold Project

**High-Grade Gold  
Potential early cash flow**

## “The” Tick Hill Gold Project



- 110km SE Mount Isa
- Tick Hill Gold Mine produced 500,000 oz gold from 700,000 tonnes of ore at 22.6g/t Au in the early 1990s.
- Three granted mining leases (renewed for 10 years)
- SPQ farming in (\$750k expenditure for 50% equity)
- Current 50:50 JV on Tailings Storage Facility

# Tick Hill Gold Project

Tick Hill Gold Mine (circa 1993) looking easterly





## Development Opportunity

1. Old mine tailings
2. Adjacent alluvial deposits
3. Mine rock dumps
4. Potential residual underground ore
5. 500,000oz exploration target

### Immediate Opportunity:

- Old mine tailings
  - Est. 600,000 to 650,000 tonnes @ 1 g/t
  - Est. 80% recovery
  - Est. \$26 million @ A\$1,466oz

[refer SPQ and Diatreme Resources Limited ASX Releases dated 22 September 2015]

## Exploration Opportunity

- ✓ High grade historic gold production
  - 513,333 ounces of gold at a recovered grade of 22.6 g/t gold
- ✓ At \$1,466/ounce worth **A\$753 million**
- ✓ Granted mining leases with previous mining history
- ✓ Large data set - \$15 million worth of previous exploration to use with modern technology to further define gold mineralisation
- ✓ Cheap entry price
- ✓ Excellent exploration target - the faulted offset of the mined gold shoot
- ✓ Potential for discovery of another 500,000oz ore body



## Tailings Dam Assessment



### Drilling program

- 55 air-core holes
- Total of 398m drilled

### Metallurgical testing

- 373 geochemical samples analysed
- Compositied bulk samples from each TSF paddock
- Cyanide leach testing
- Grind size-by-size analysis

### Process optimisation

## Tailings Dam Assessment

Drill Program	Western Paddock g/t Au	Eastern Paddock g/t Au	Overall – Tailings Dam g/t Au
First Stage Program	0.73	1.42	1.04
Second Stage Program	0.88*	1.43	1.12*
Overall (g/t)	0.81*	1.42	1.08*

- Drilling programs confirm significant gold grades within Tailings Storage Facility
- Metallurgical test work indicates:
  - Significant water-soluble gold content – 11-15%
  - Cyanide leach – 95% - 98% recovery of contained gold (Fine Grind)
  - Simple extraction – no refractory gold



## Tailings Dam Assessment

### Current expenditure

COST ALLOCATION	EXPENDITURE (1 July 2014 to 26 November 2015)
Drilling and Test Work	\$21,618
Regulatory Permitting Fees	\$24,020
Tenement Rent & Rates	\$54,593
<b>TOTAL</b>	<b>\$100,231</b>

### Next steps

- Process optimisation
- Process flowsheet design
- Feasibility/scoping study



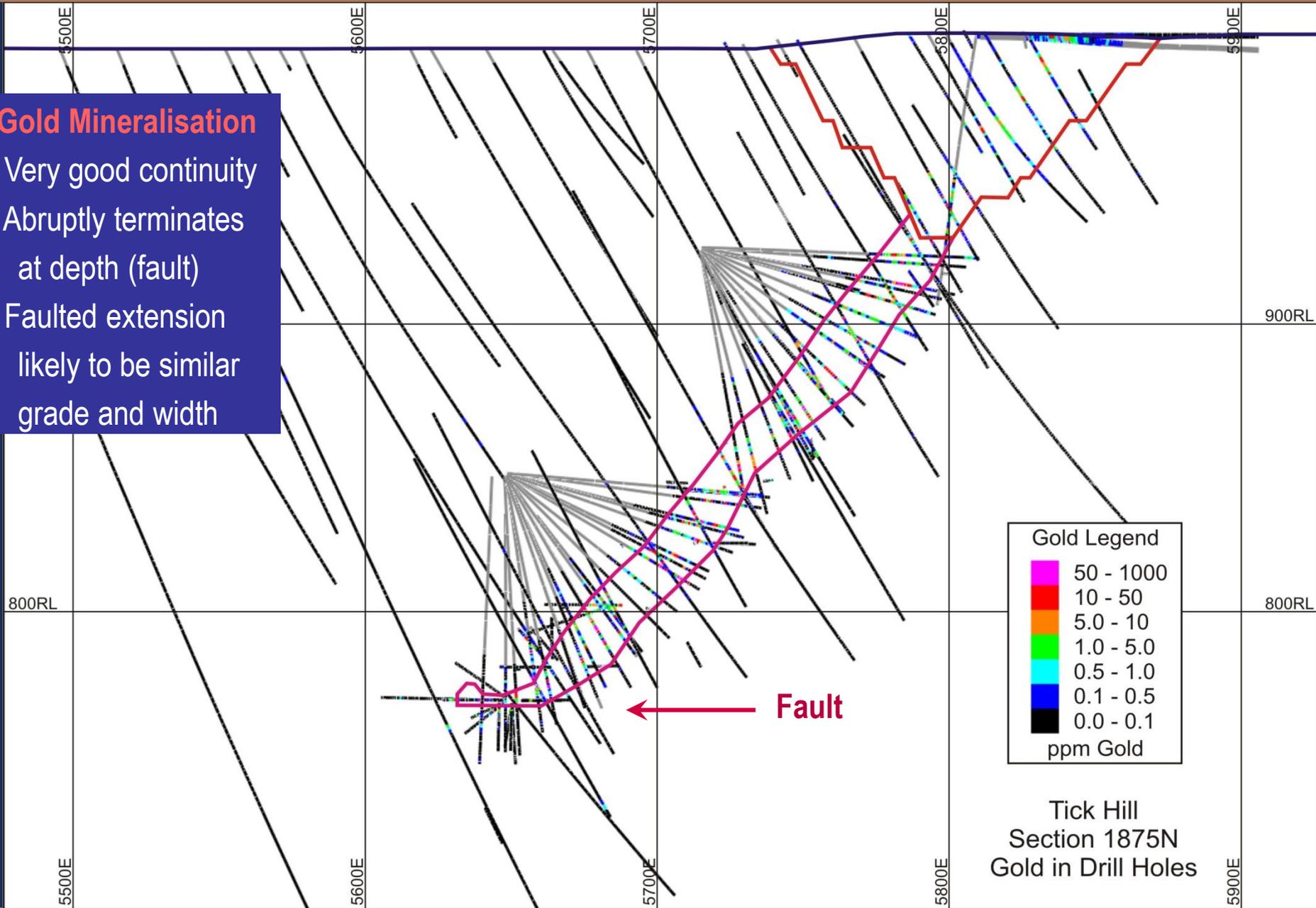
# Tick Hill Gold Project

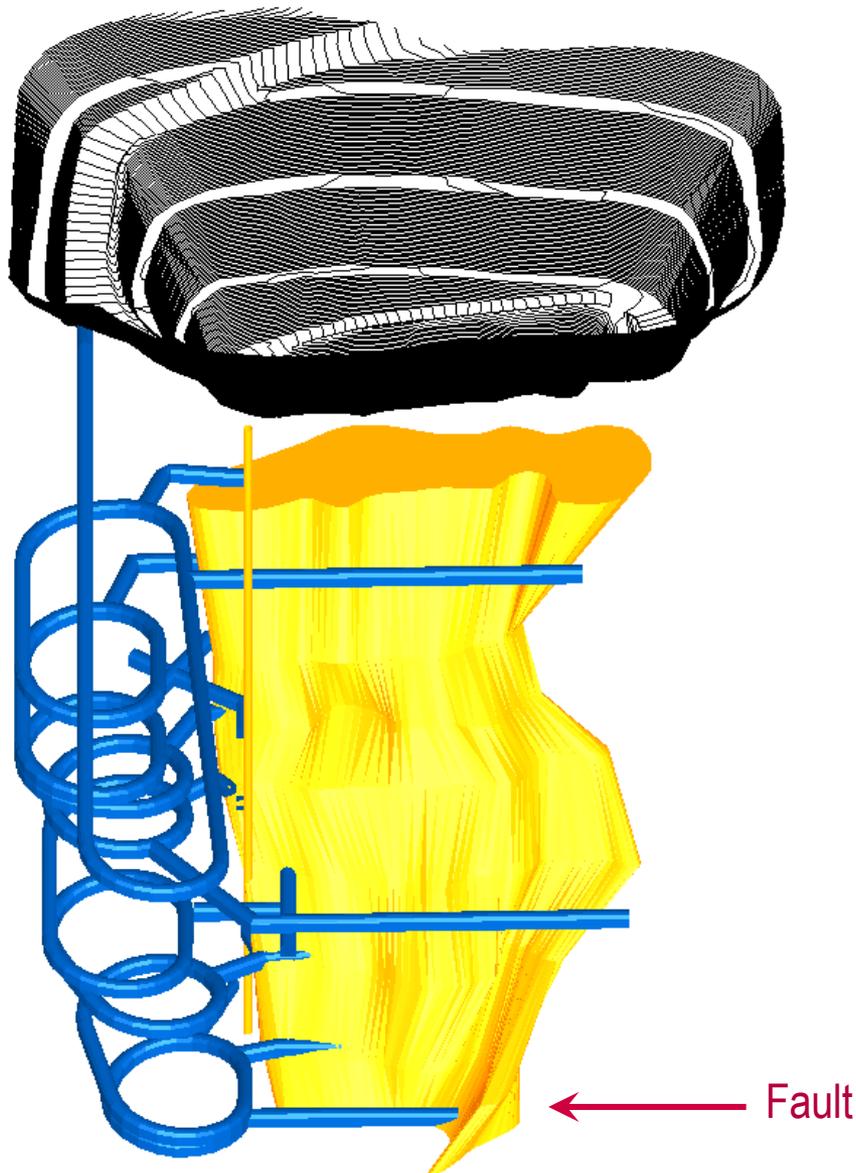


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## Gold Mineralisation

- Very good continuity
- Abruptly terminates at depth (fault)
- Faulted extension likely to be similar grade and width





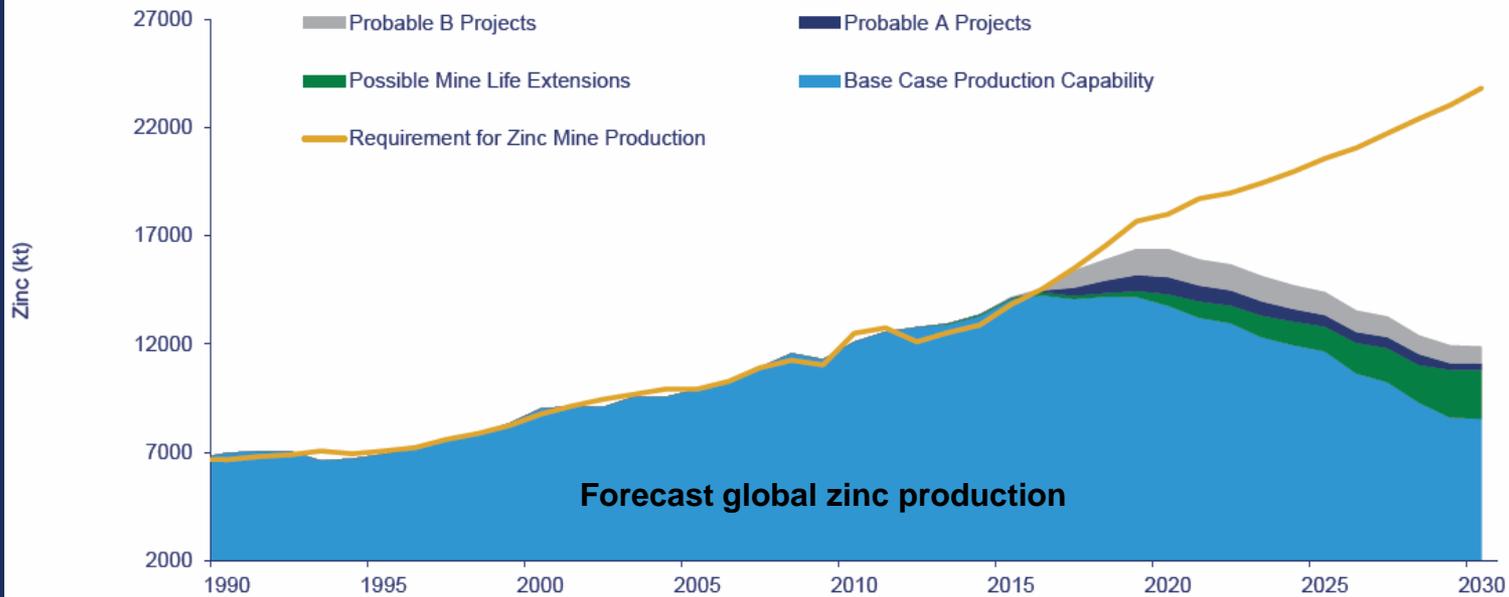
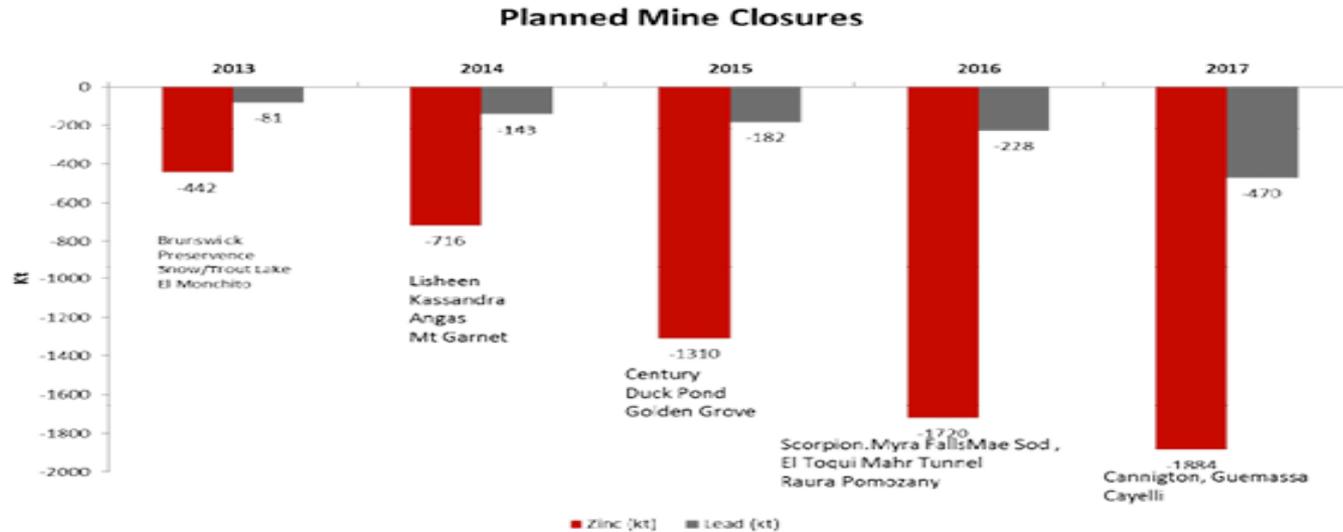
## Pit and Underground View

- 3D View looking grid east - down at  $-40^\circ$
- Open pit (70m deep)
- Decline from pit ramp
- Underground stope
- Lode shows a fault truncation on southern end at depth
- Lode curved along fault to west
- Other targets include:
  - other subsurface targets
  - mine rock dumps
  - alluvials / elluvials

# Northwest Queensland

Lead – Zinc – Copper Projects

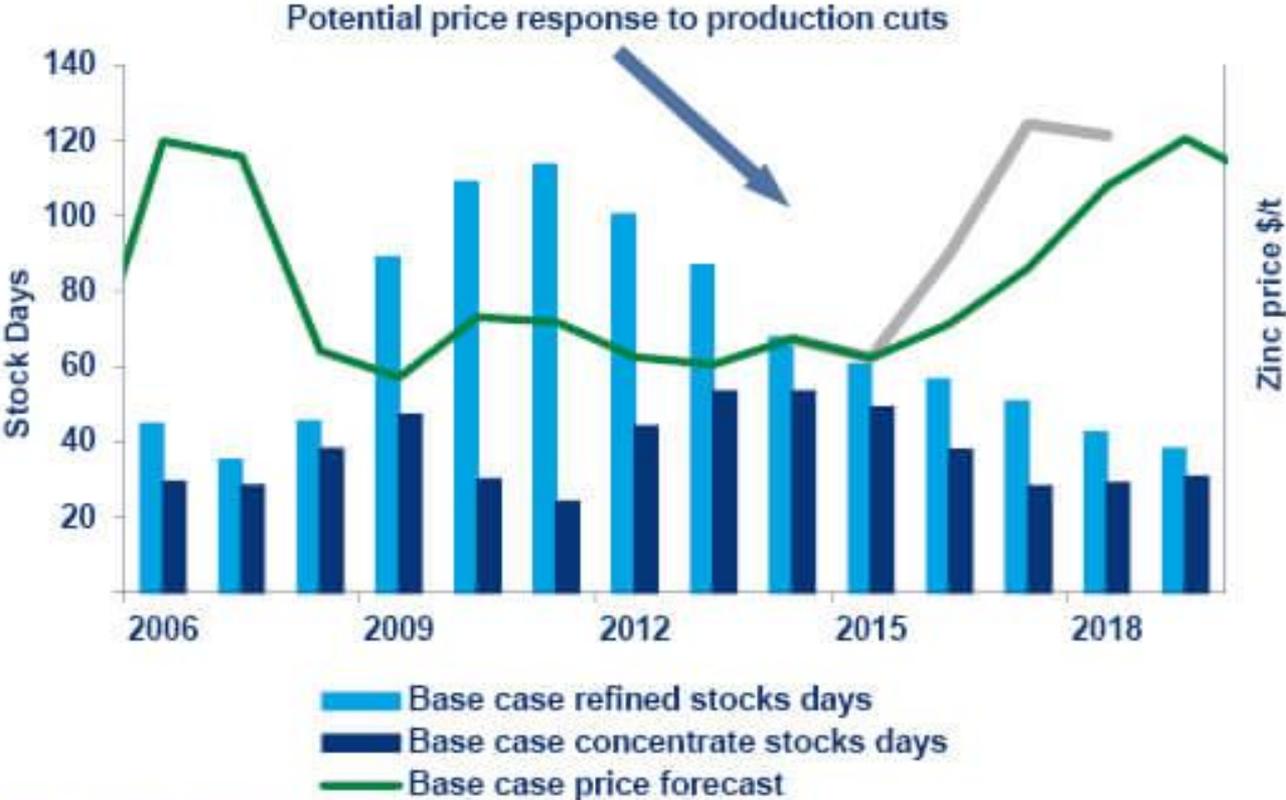
# Zinc trends



Source : Vendetta Mining

Source : Wood Mackenzie

## Cuts to start the zinc price rally early

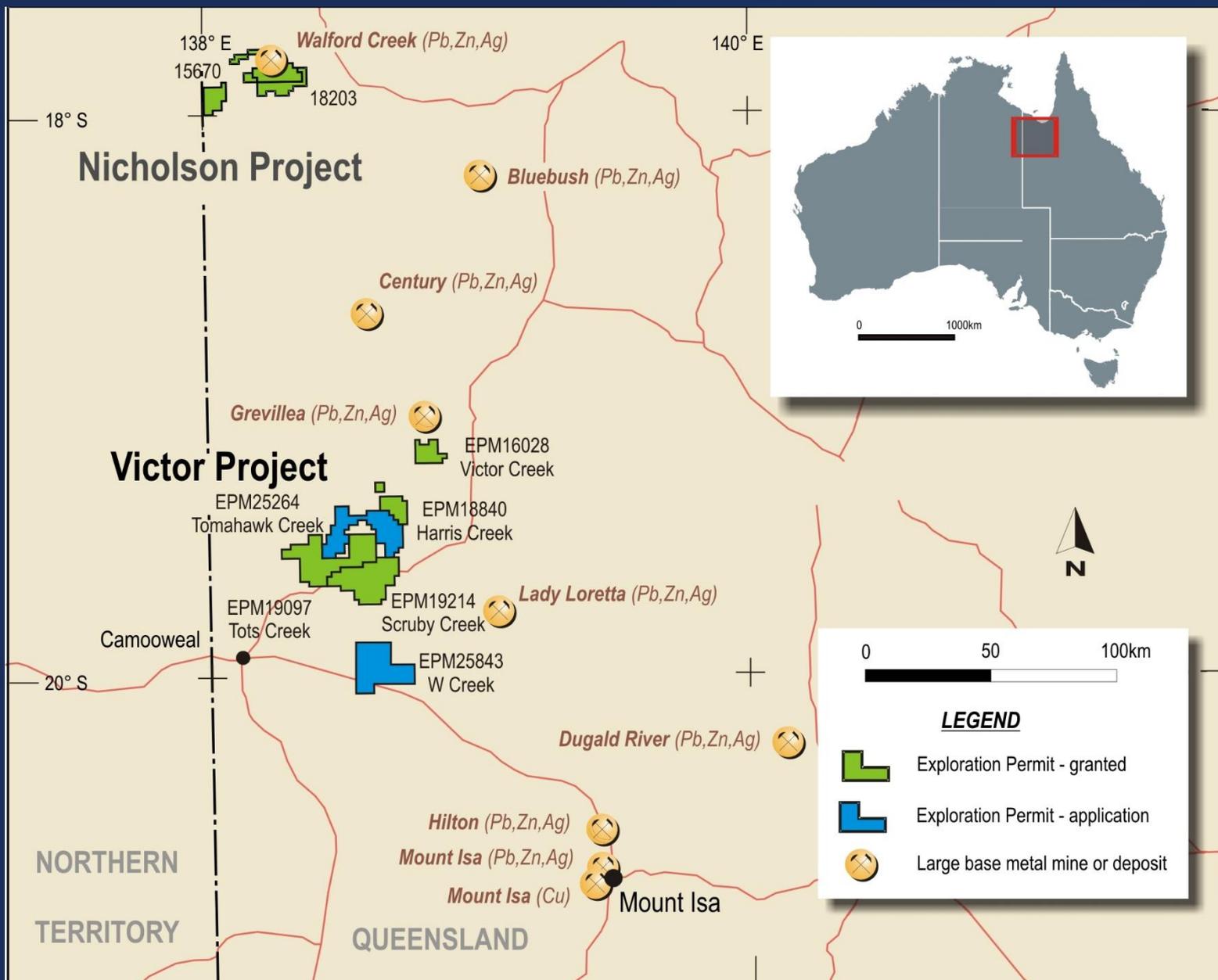


Source: Wood Mackenzie

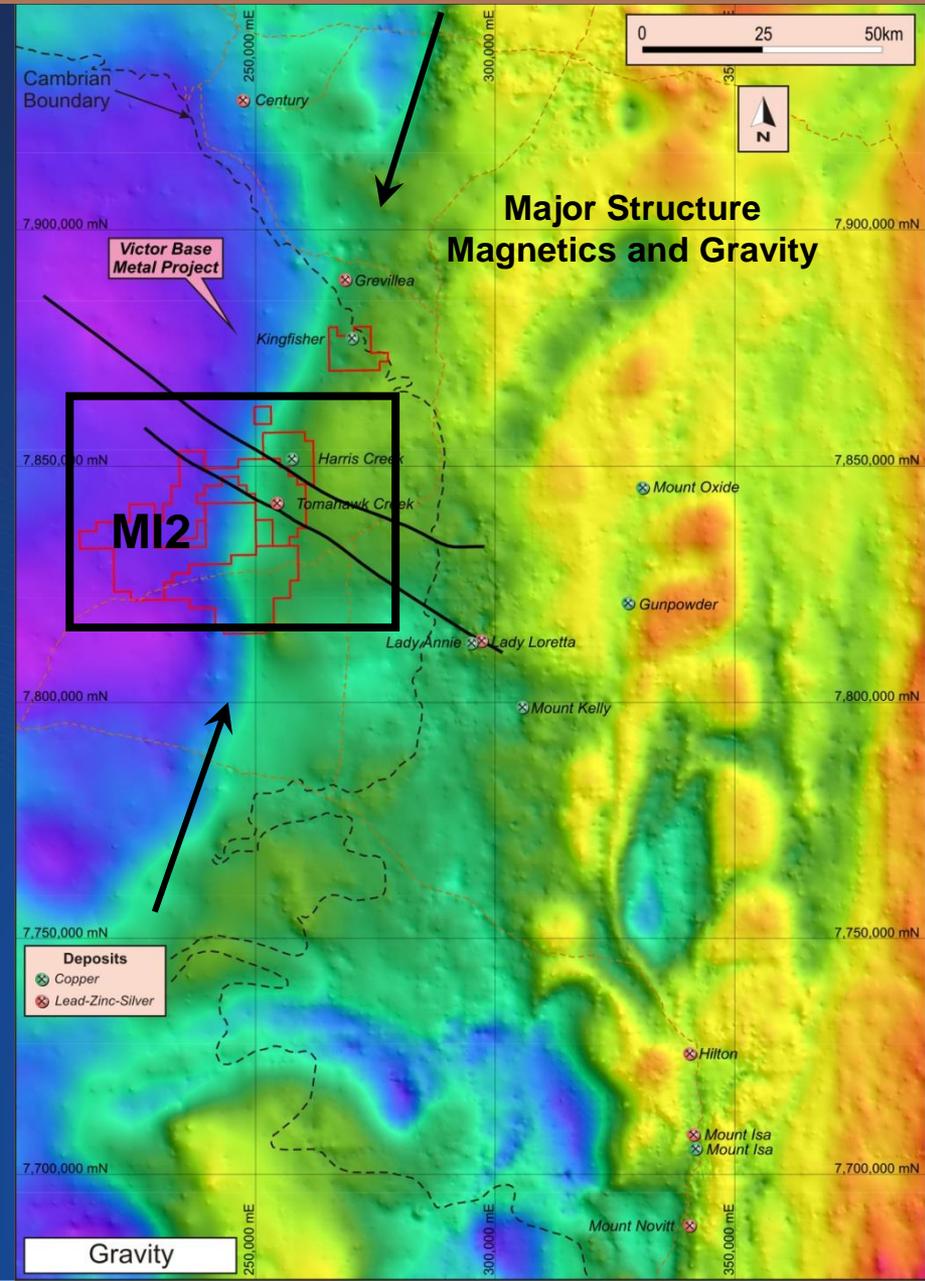
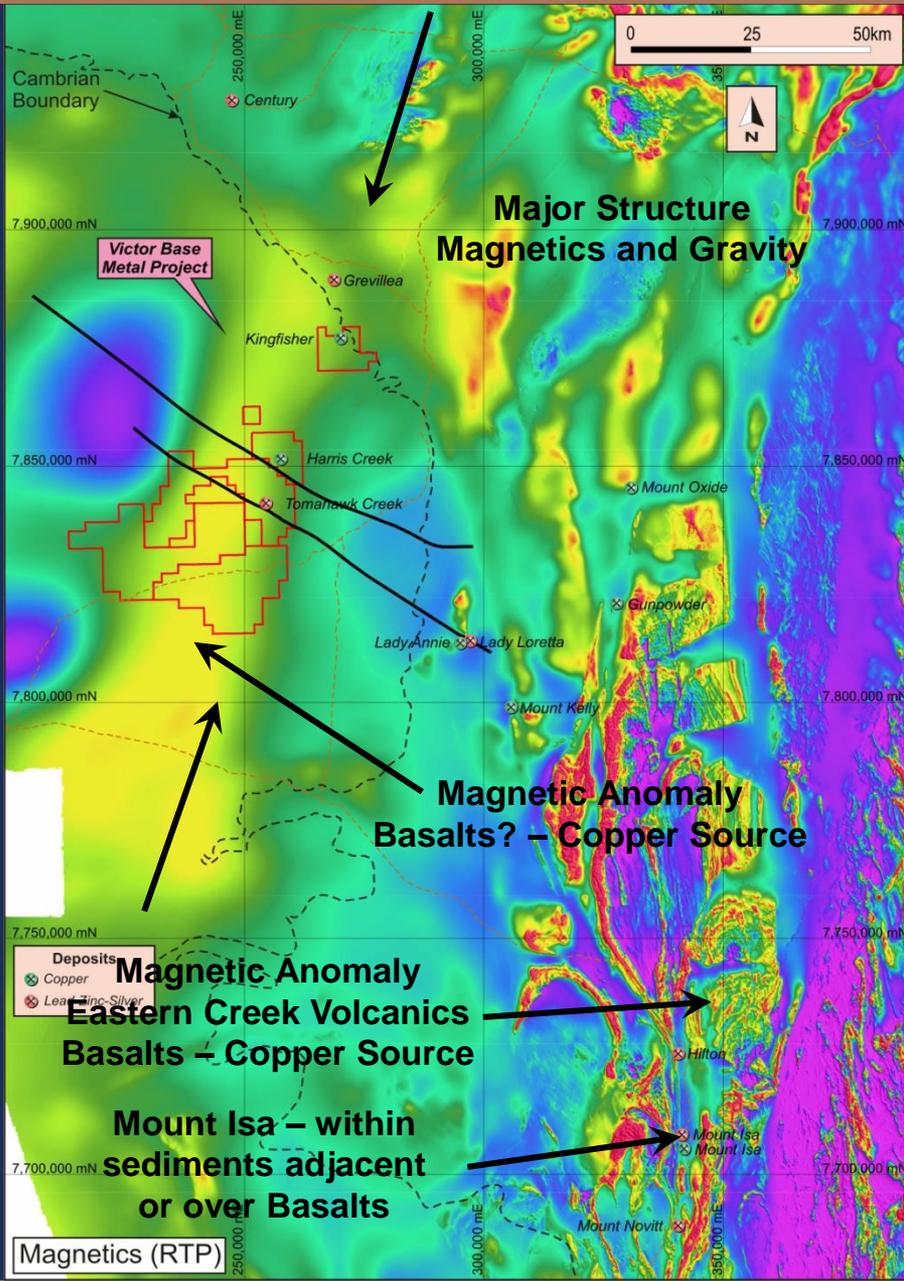
# NW Qld – Base Metal Prospects



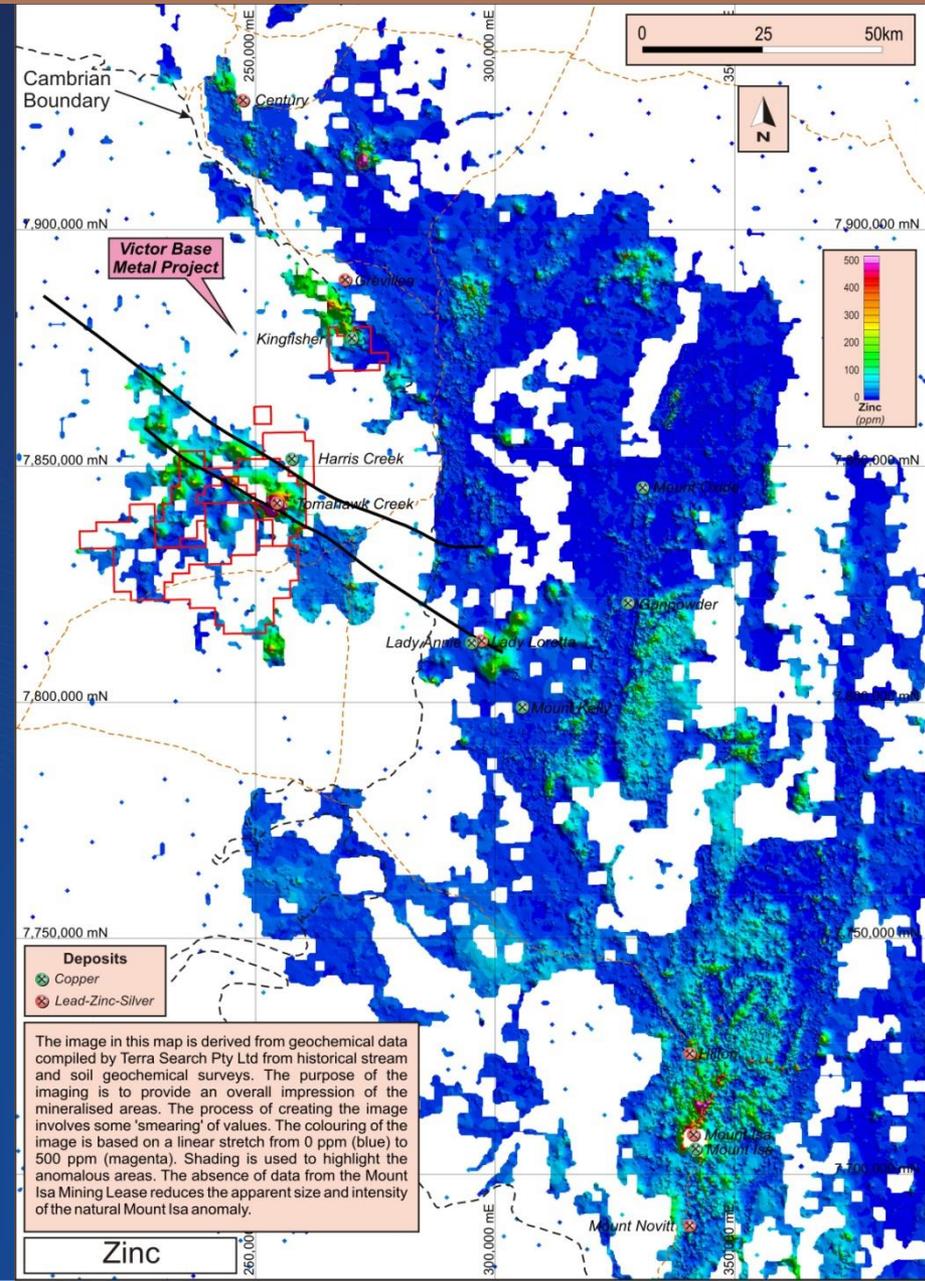
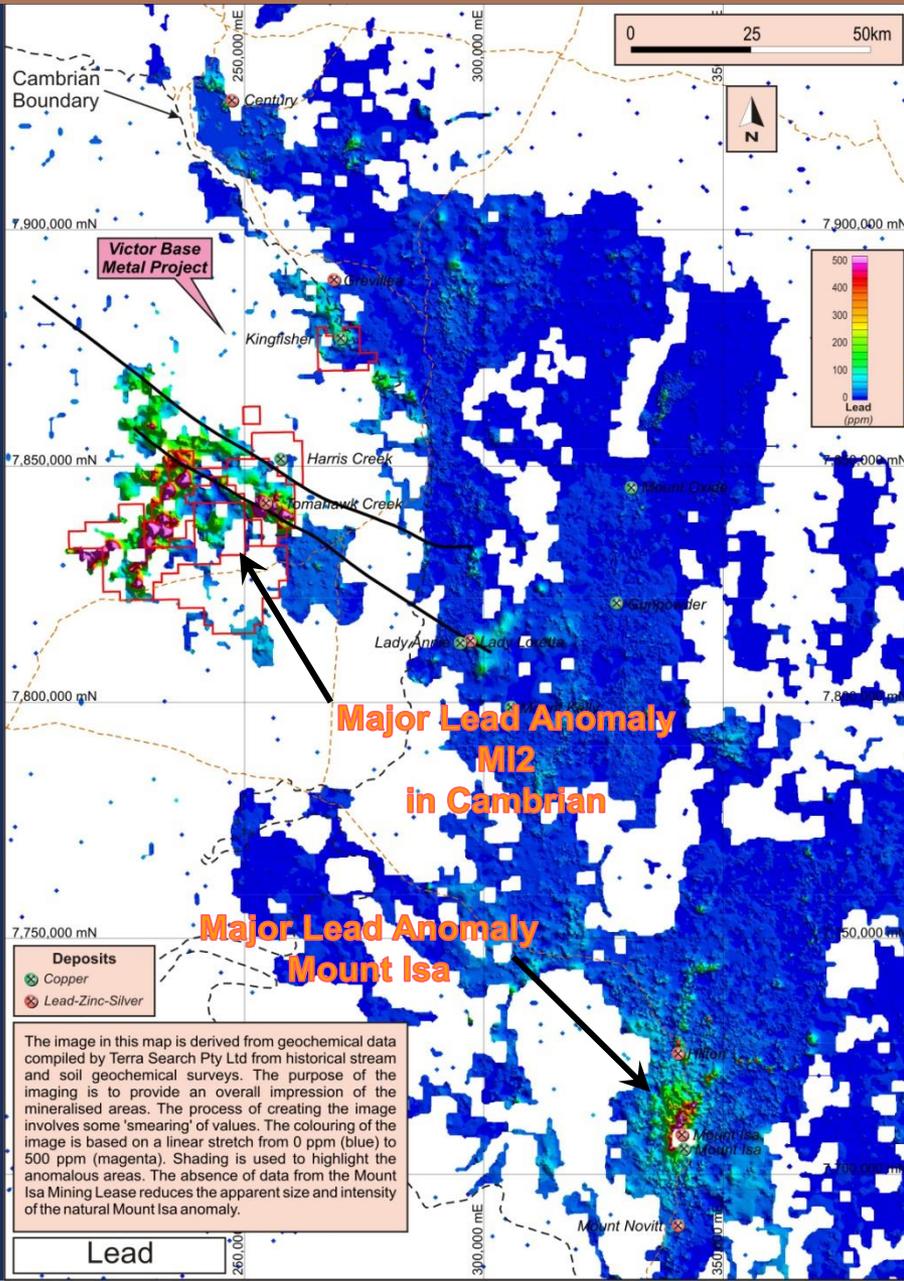
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# Mount Isa to Century - Mag (RTP) and Gravity



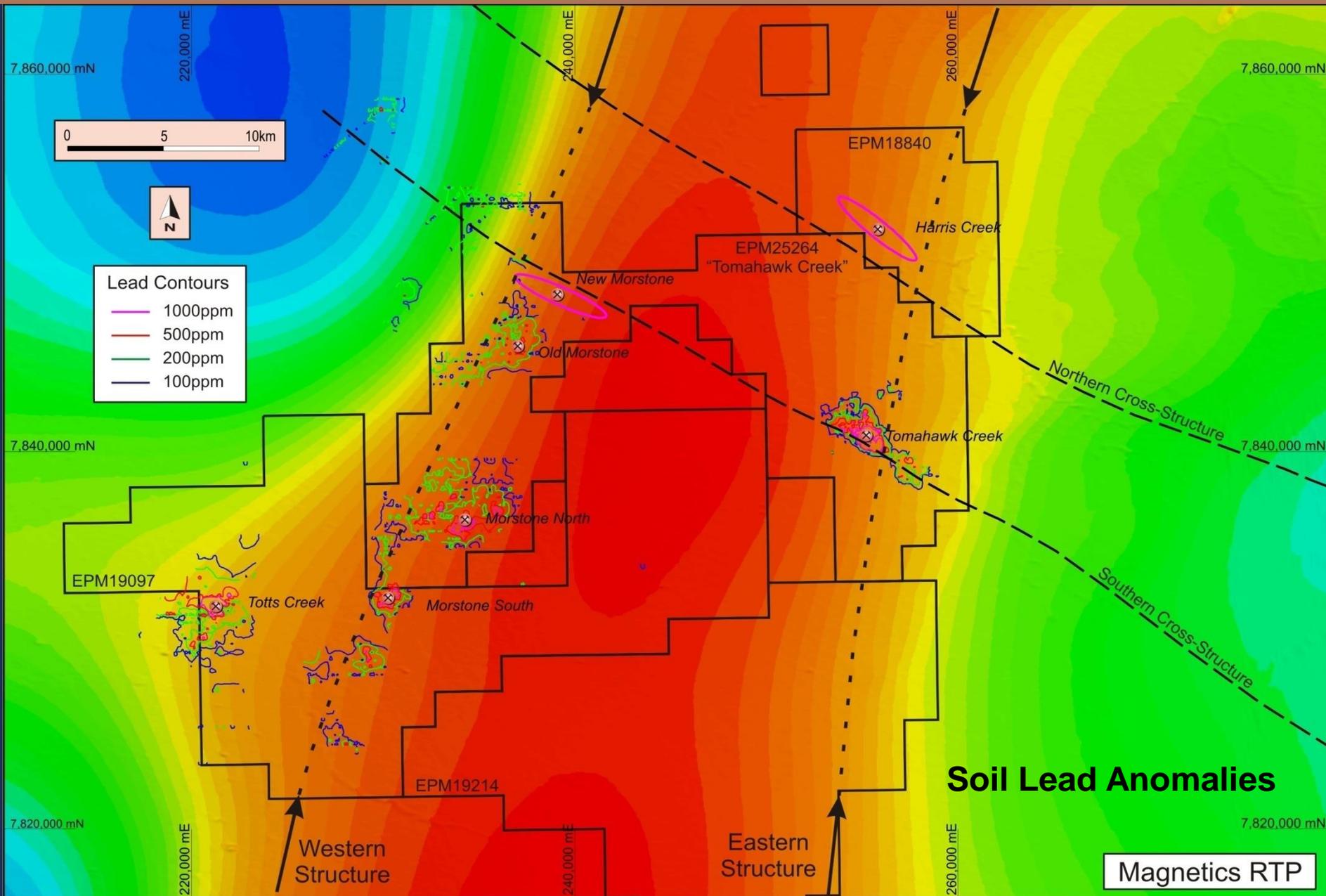
# Mount Isa to Century - Lead and Zinc



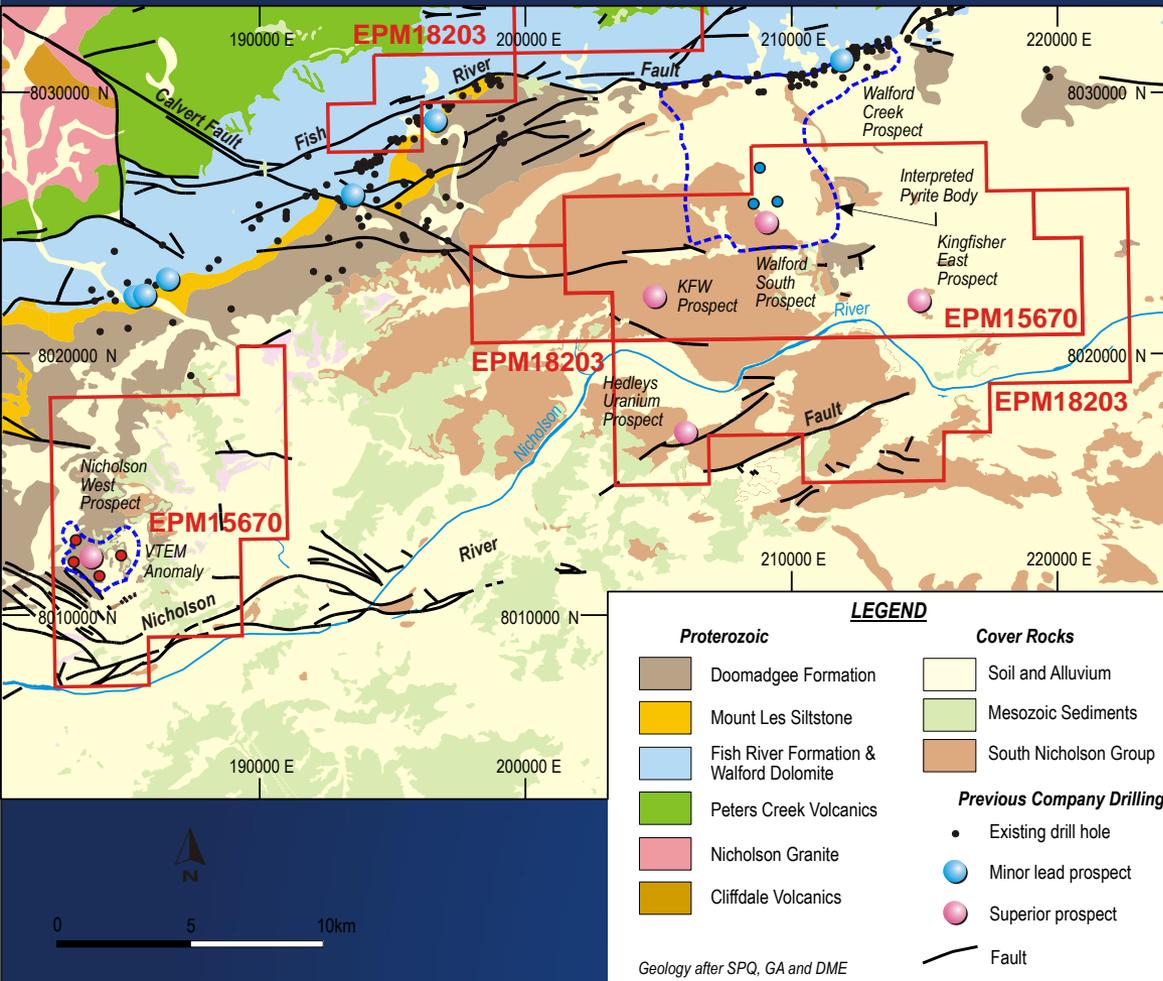
# Tomahawk Creek Mag (RTP)



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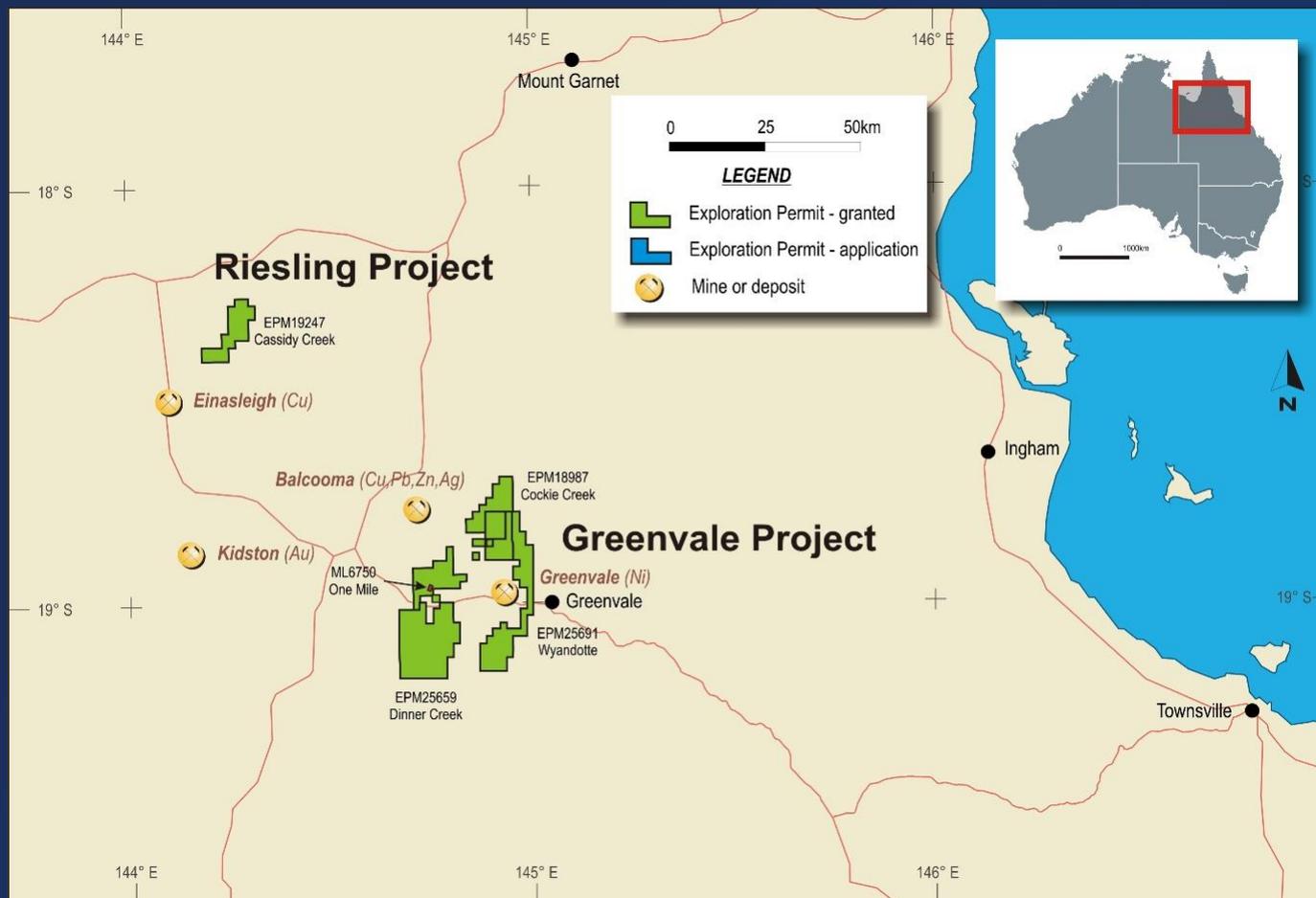


# Nicholson Project (NW Qld)



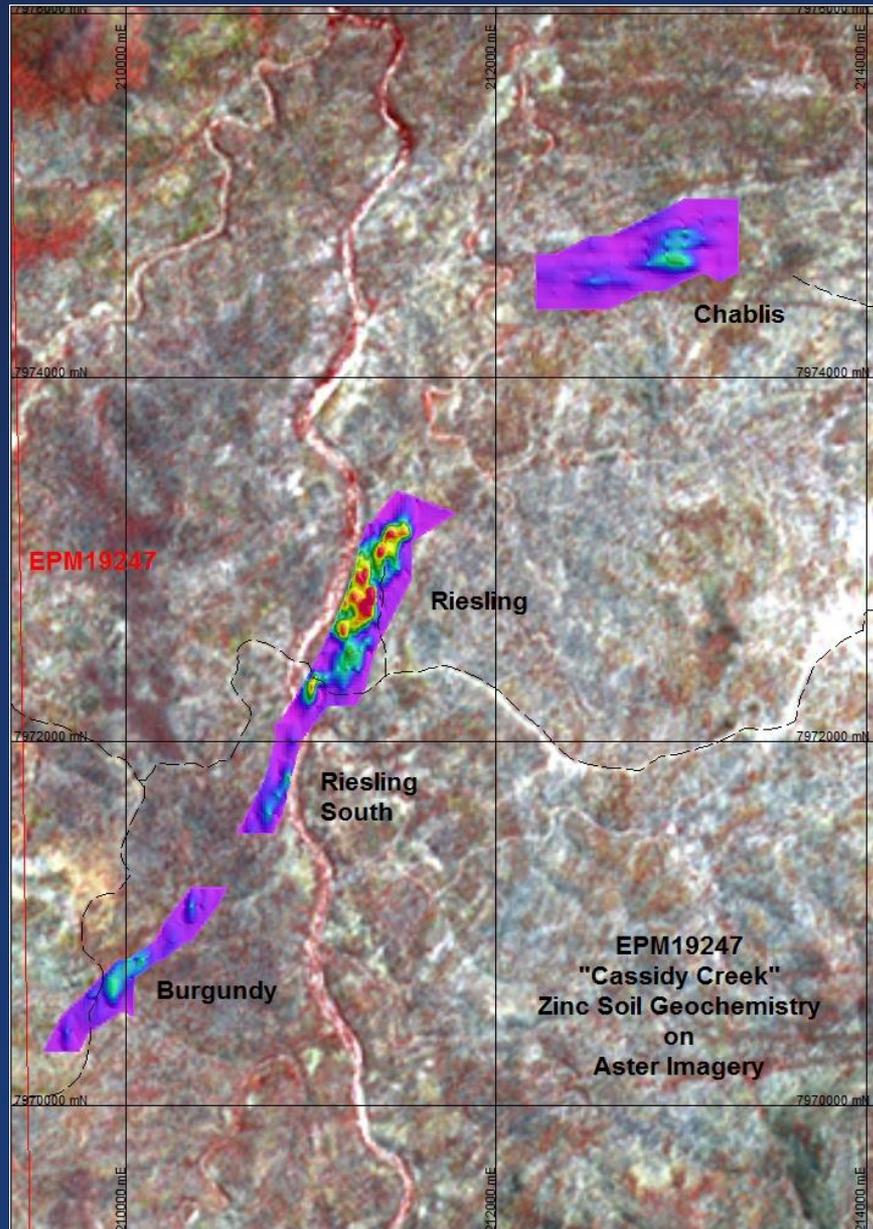
- Mt Isa Style zinc-lead-copper
- Earn-in and JVA – Teck Australia
- Teck can earn 70% by:
  - minimum expenditure of \$250,000 by 30 September 2016 (or paid in cash); and
  - \$2,250,000 expenditure by 31 December 2018.

# Riesling Zinc Project



- Six km zone of quartz gahnite lodes and surface samples to 24% Pb  
Potential for Broken Hill type (BHT) or VMS mineralisation

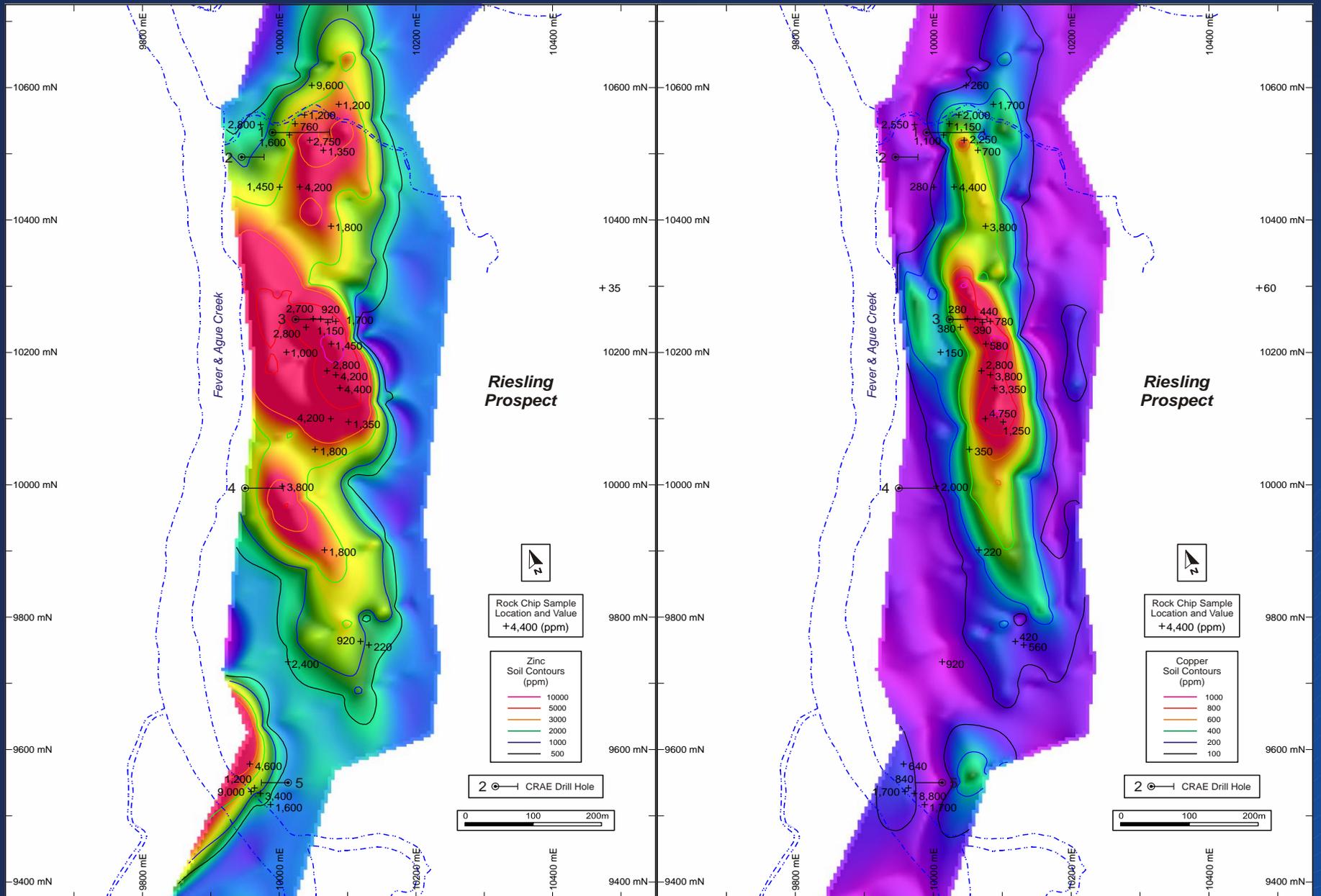
# Riesling Zinc Project



# Riesling Zinc Project



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- Superior's zinc projects – very significant potential for Mount Isa style deposit
- Five advanced prospects with potential for large Mount Isa style copper and lead-zinc-silver deposits.
- Four high priority drill targets defined.
- Historically not explored.
- Farm-in and JV with Teck Australia – Nicholson Project
- Superior holds most of the prospective ground as Exploration Permits or Applications.
- Superior holds a commanding position in zinc.



# Greenvale Project

**Copper**

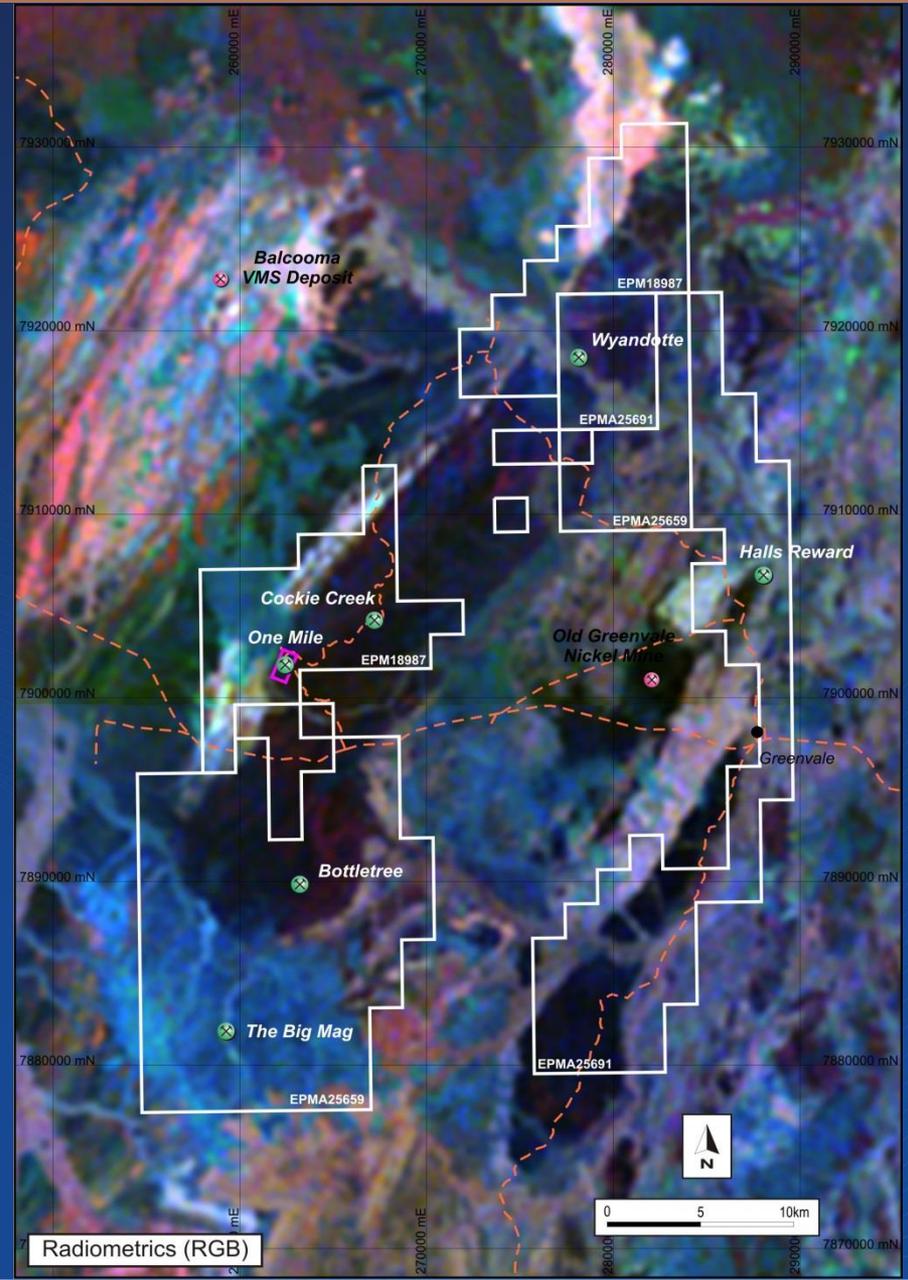
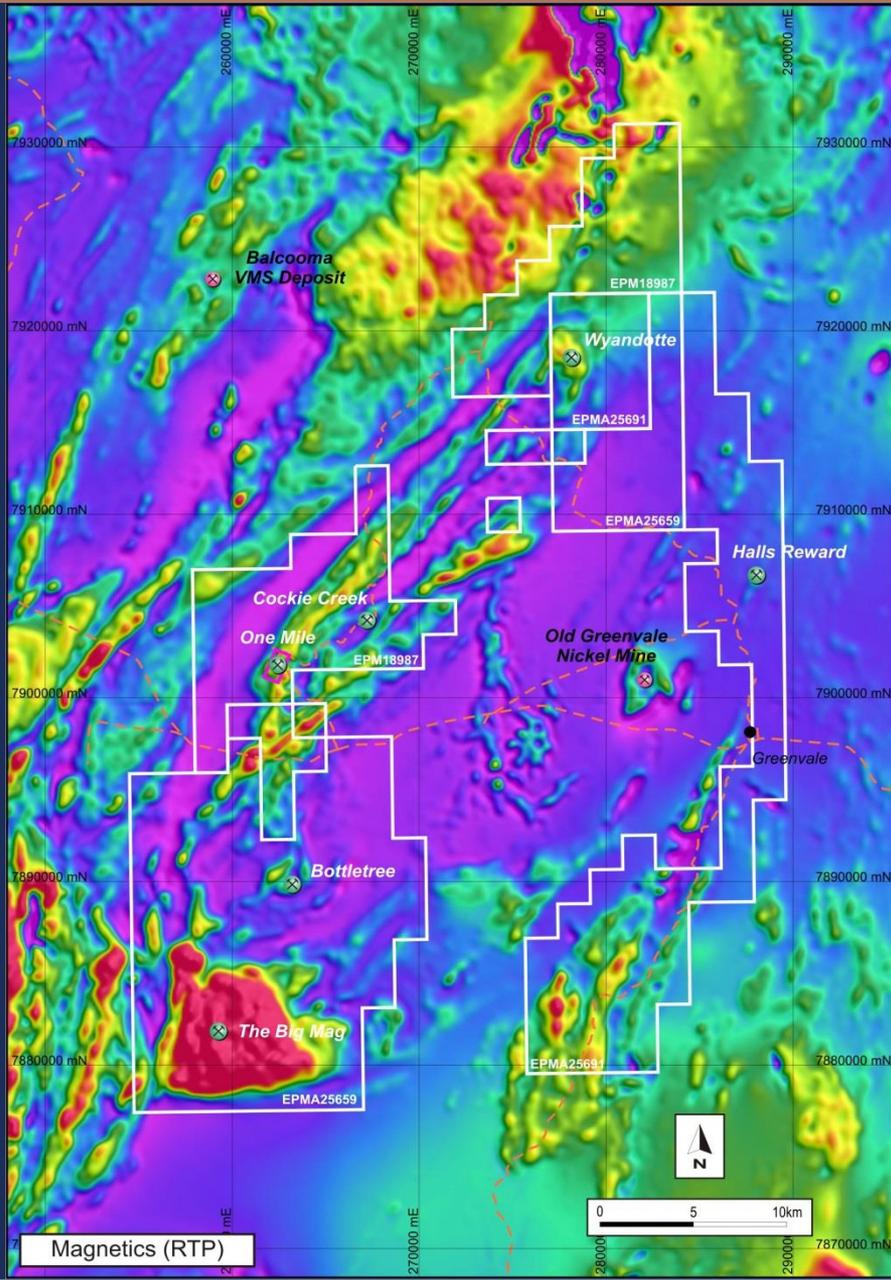
# Greenvale Project



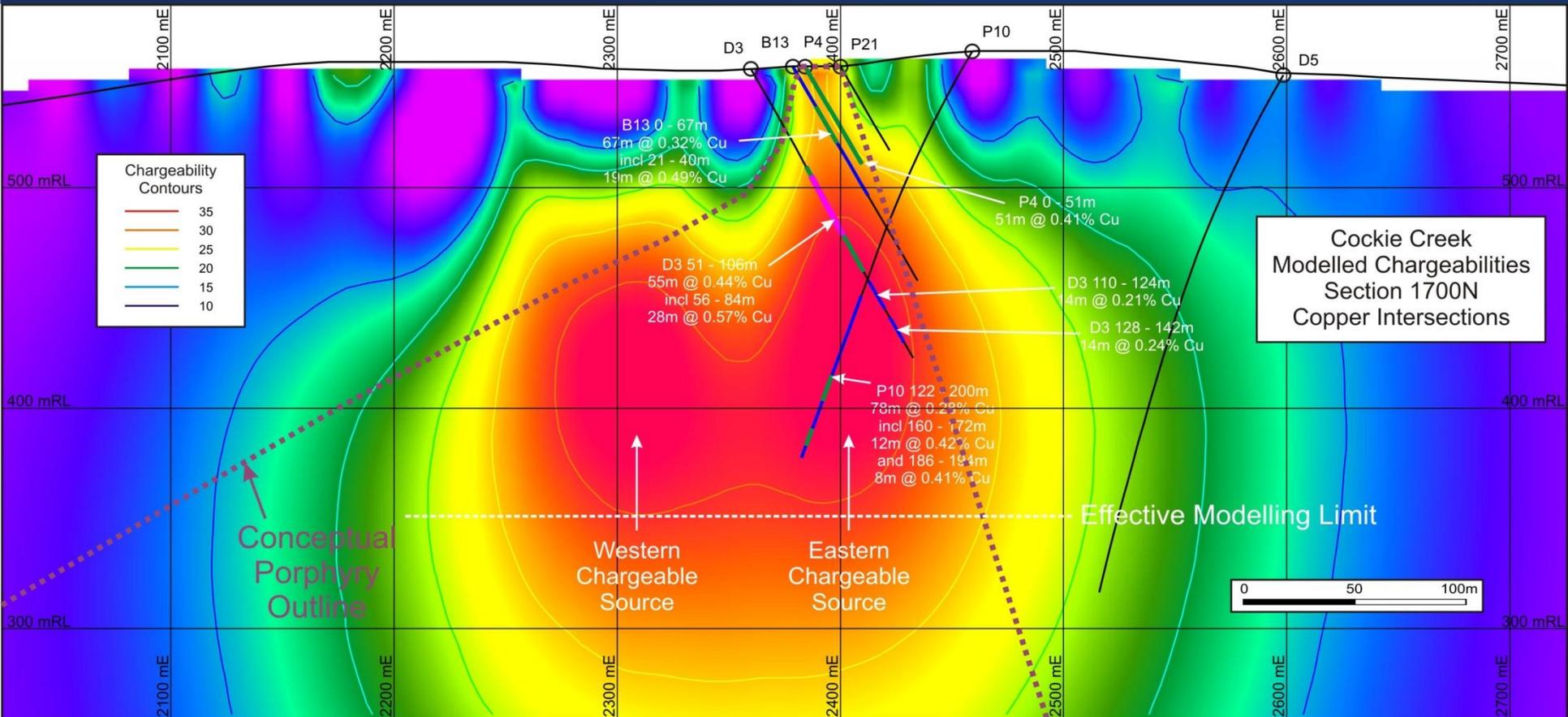


Targets	Porphyry copper, volcanogenic massive sulphide (VMS) deposits, disseminated copper deposits and Broken Hill type deposits
One Mile	Large massive and semi-massive sulphide body – sub-economic Five surrounding quality geophysical and other targets to be drilled
Cockie Creek	Inferred JORC resource 13Mt @ 0.42% Cu Potential porphyry copper deposit below resource Potential further copper mineralisation in area
Wyandotte	Last explored in 1975 Significant results: 5.8m @ 7.8% Cu and 13.4m @ 3.6% Cu
Hall's Reward Copper Mine	Historic mining: 12,800 tonnes @ 17% Cu, 5g/t Au and 23g/t Ag 1995 exploration (CRAE): discovered previously unknown additional mineralised lode of lower grade. Insufficiently explored.
Bottletree	Historic drilling: 50m @ 0.3% Cu

# Greenvale Project



# Greenvale Project – Cockie Creek





## Superior – Well positioned for growth

- Material exposure to Zinc – Gold – Copper
  - Zinc – a key commodity with potential for sustained future growth
  - First mover advantage in a highly prospective Lead/Zinc region
  - Commodities: Zinc – Gold – Copper
- Funding opportunities
  - Tick Hill early cash flow opportunities
  - Quality first-tier JV partners
- Growth
  - @ \$0.01 – Trading at shell value
  - Potential to add significant value