

*and Queensland's*

Unlocking Victoria's Copper-Gold  
Potential:  
multiple drill-ready discovery  
opportunities and significant  
Government funding!

**PMIS 2016**

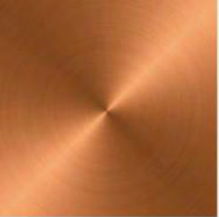
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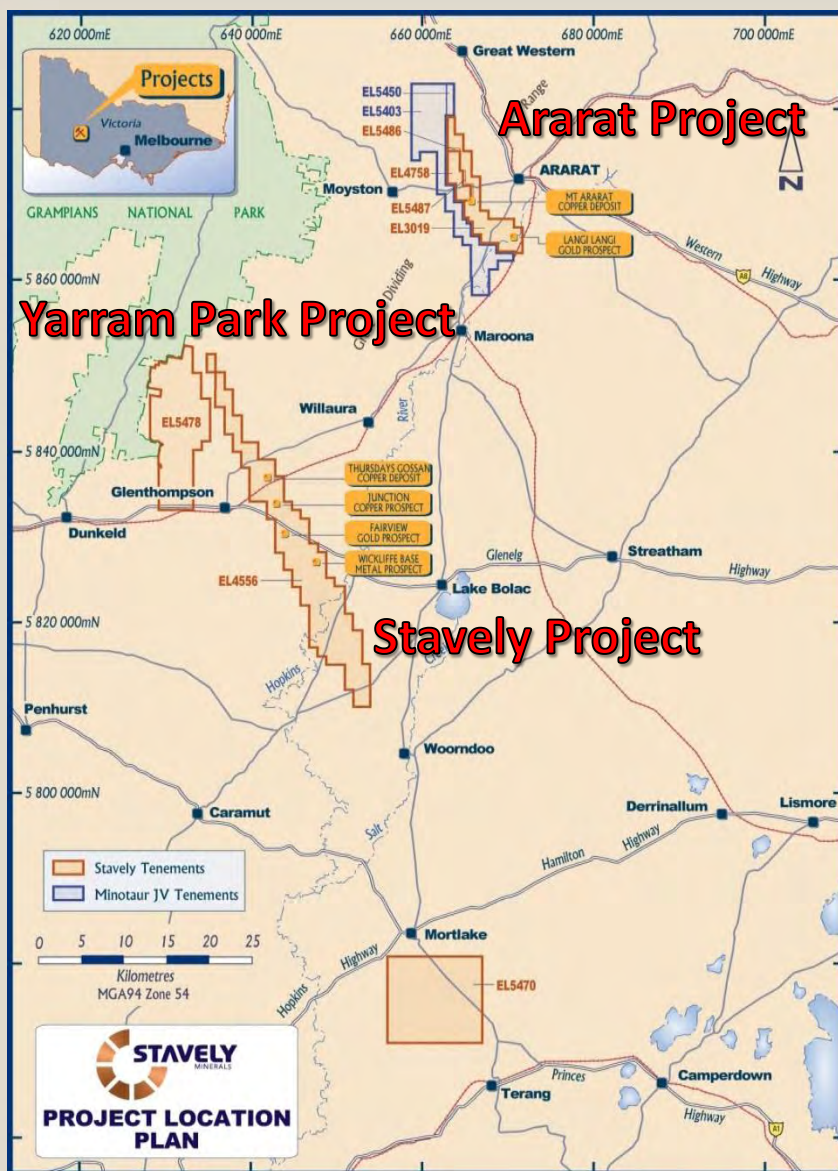
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# PROJECTS

# VICTORIAN PROJECT LOCATIONS



## Victorian Projects

The Ararat Project is prospective for VMS base metals-gold and 'Stawell-style' gold mineralisation.

The Stavely Project is prospective for ancient porphyry copper-gold, VMS base metals-gold and intrusive related gold mineralisation.

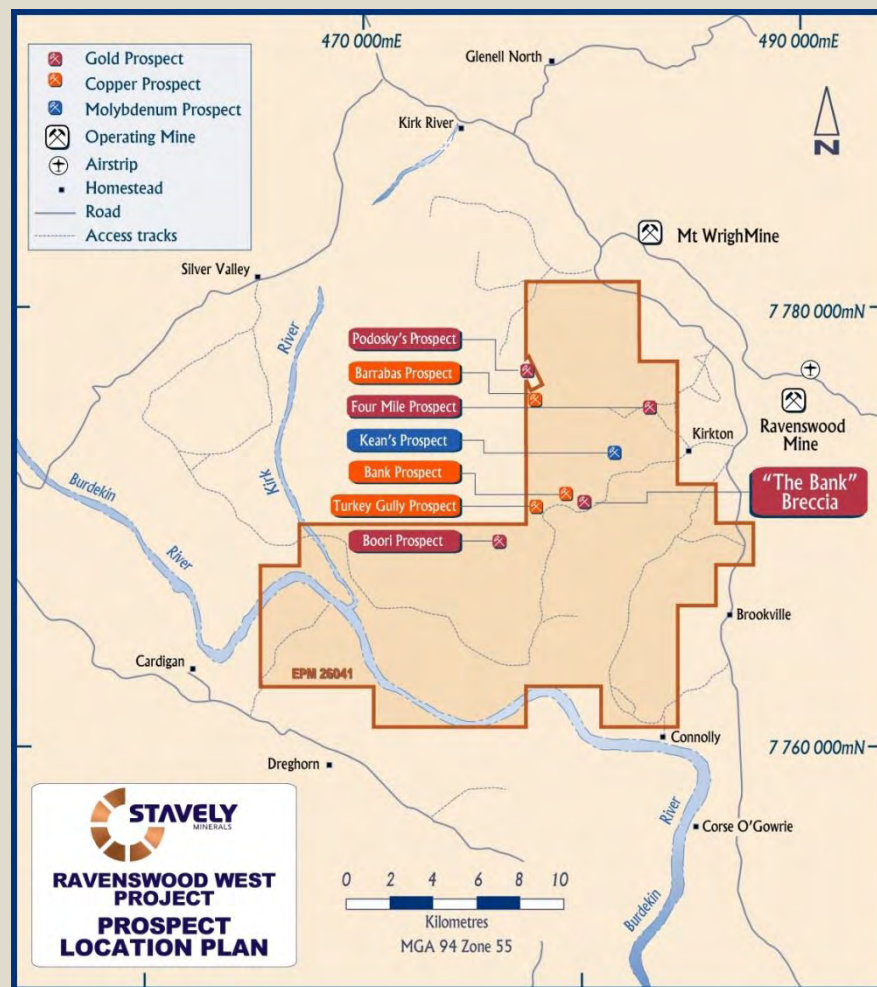
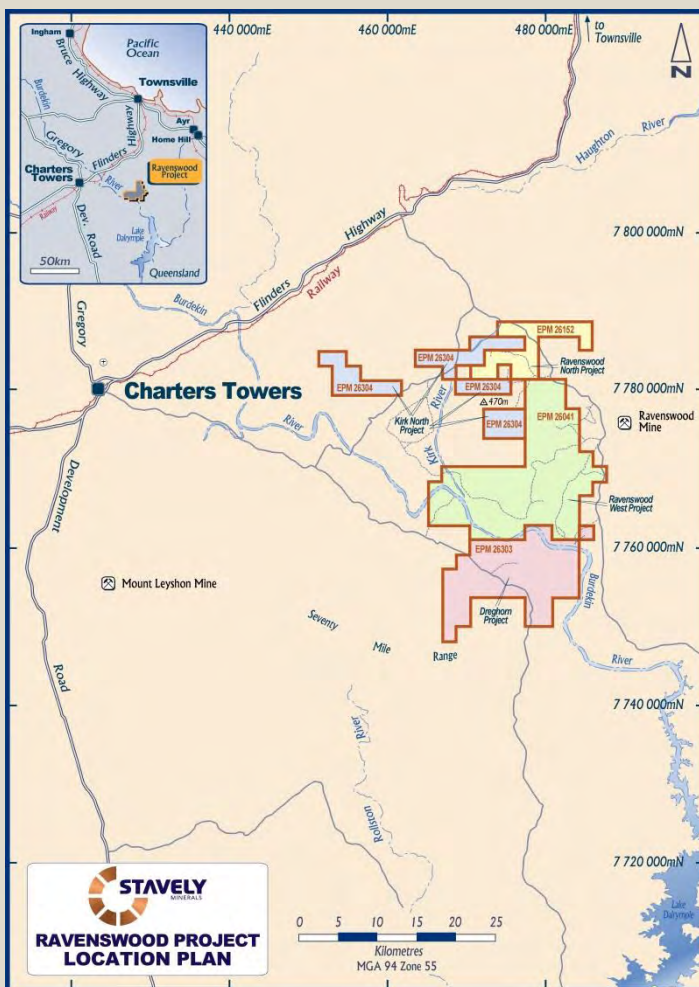
The Yarram Park Project is prospective for ancient porphyry copper-gold and intrusive related gold mineralisation.



# QUEENSLAND PROJECT LOCATION



The Ravenswood Project is prospective for porphyry copper-moly-gold, quartz-sulphide vein-hosted gold and breccia-hosted gold mineralisation.



At the **Ararat Project**, hosted in a Besshi-style VMS:

- Inferred Mineral Resources of 1.3Mt at 2.0% copper, 0.5 g/t gold, 0.4% zinc and 6 g/t silver for 30kt of contained copper

At the **Stavely Project** hosted in a secondary chalcocite-enriched blanket:

- Inferred Mineral Resources of 28Mt at 0.4% copper for 110kt of contained copper

<sup>1</sup> reported in compliance with JORC 2012, see ASX announcement 8 September 2015 and available from [www.stavely.com.au](http://www.stavely.com.au)

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# **THURSDAY'S GOSSAN CHALCOCITE 'BLANKET'**



# ARARAT PROJECT



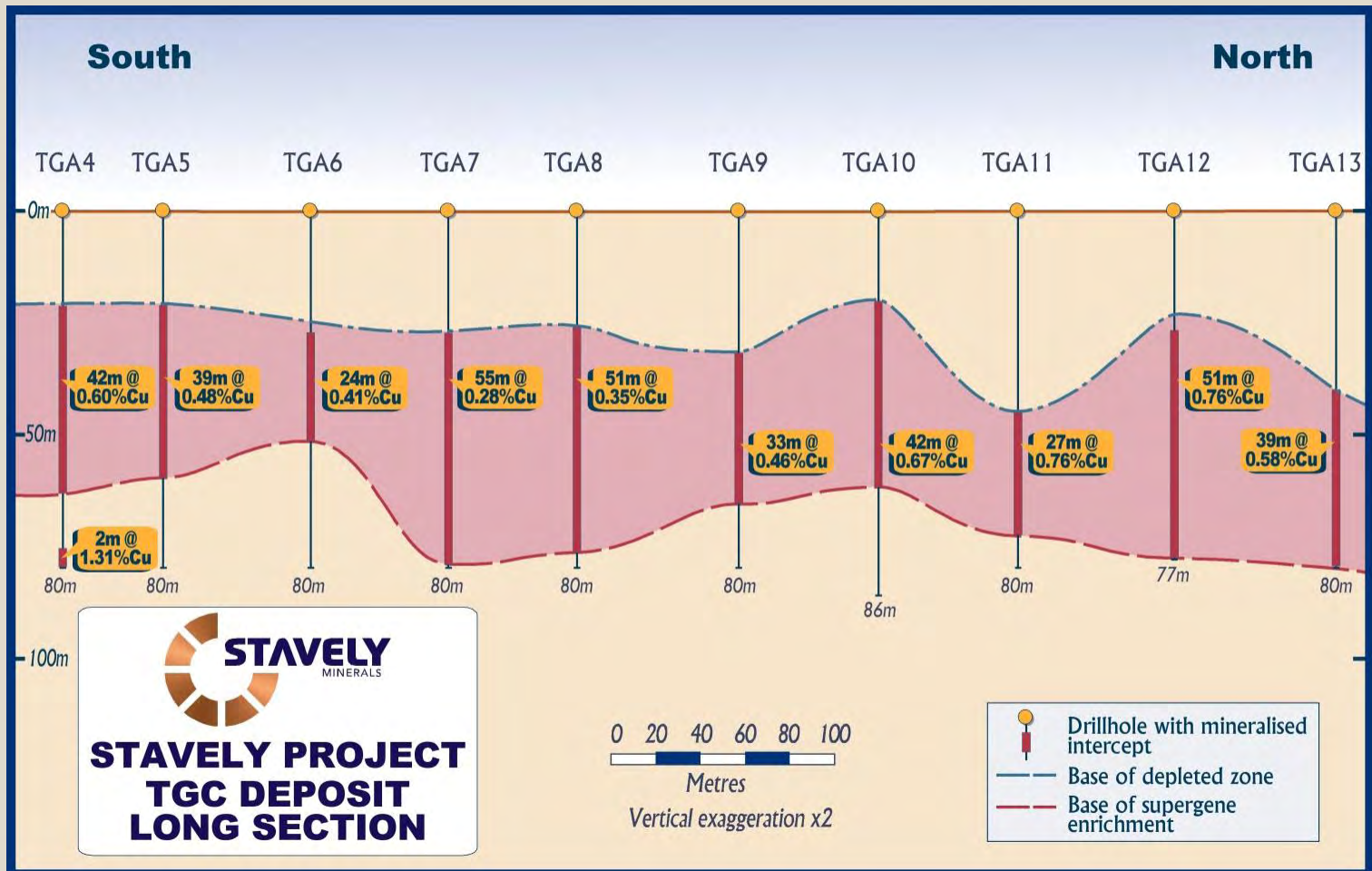
Inferred Mineral Resources of **28Mt** at **0.4% copper** for 110kt of contained copper



# ARARAT PROJECT



Conceptual Study provided sufficiently positive economic outcomes to progress to a Scoping Study<sup>1</sup>



<sup>1</sup> see ASX announcement 19 July 2016 and available from [www.stavely.com.au](http://www.stavely.com.au)

# ARARAT PROJECT



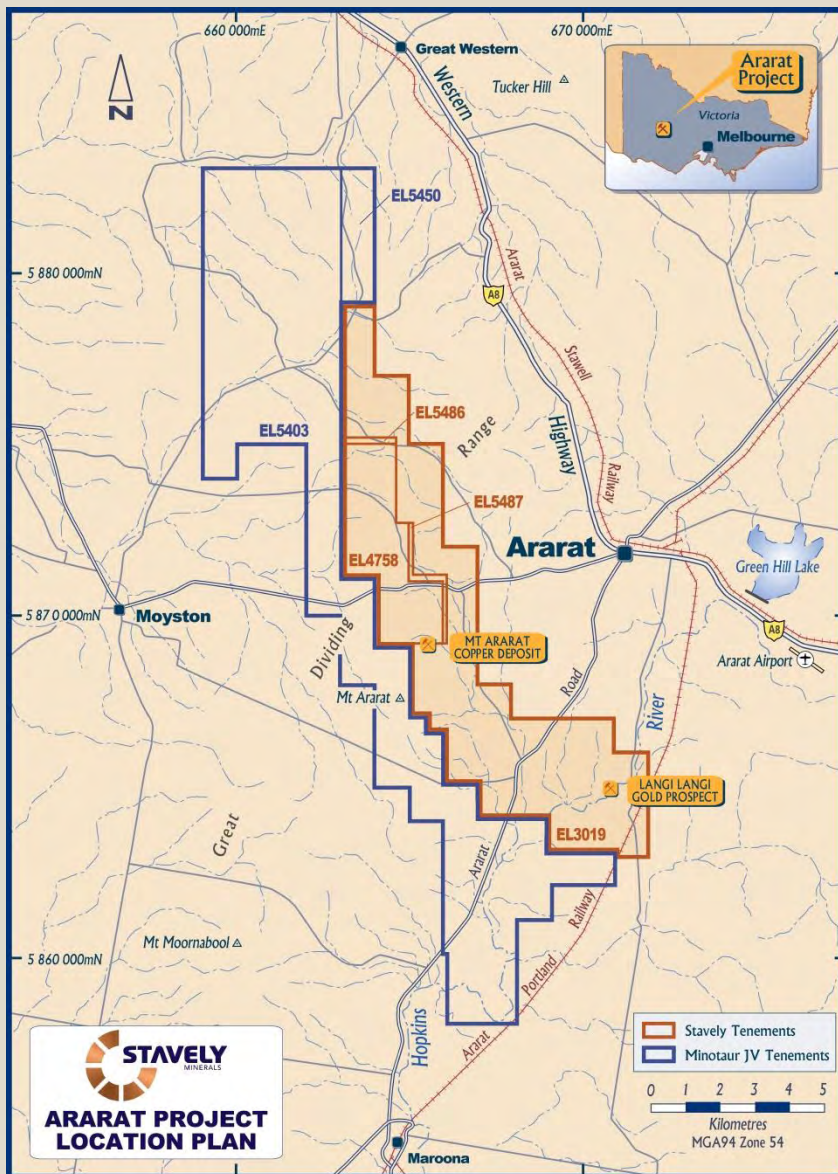
Conceptual Study provided sufficiently positive economic outcomes to progress to a Scoping Study<sup>1</sup>

<sup>1</sup> see ASX announcement 19 July 2016 and available from [www.stavely.com.au](http://www.stavely.com.au)

# ARARAT PROJECT



# ARARAT PROJECT



## The Ararat Project

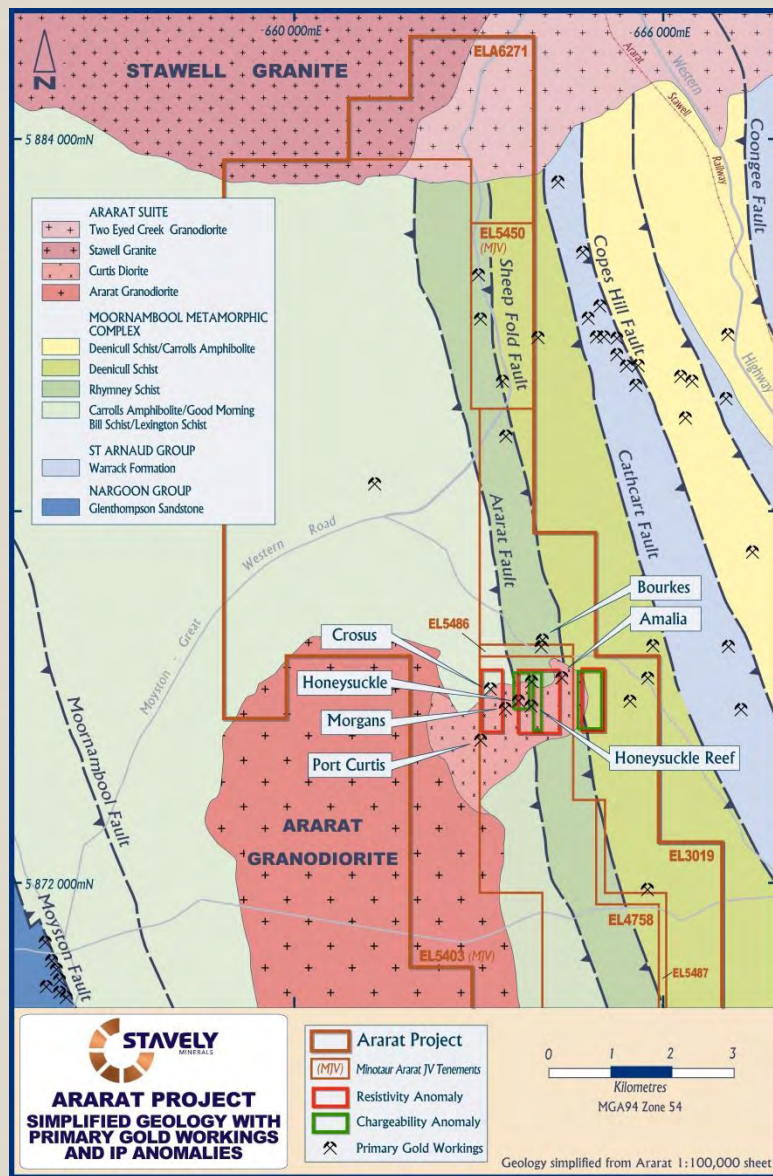
Hosts the:

Mt Ararat Besshi-style  
copper-gold VMS

and 'Stawell-style' gold  
targets



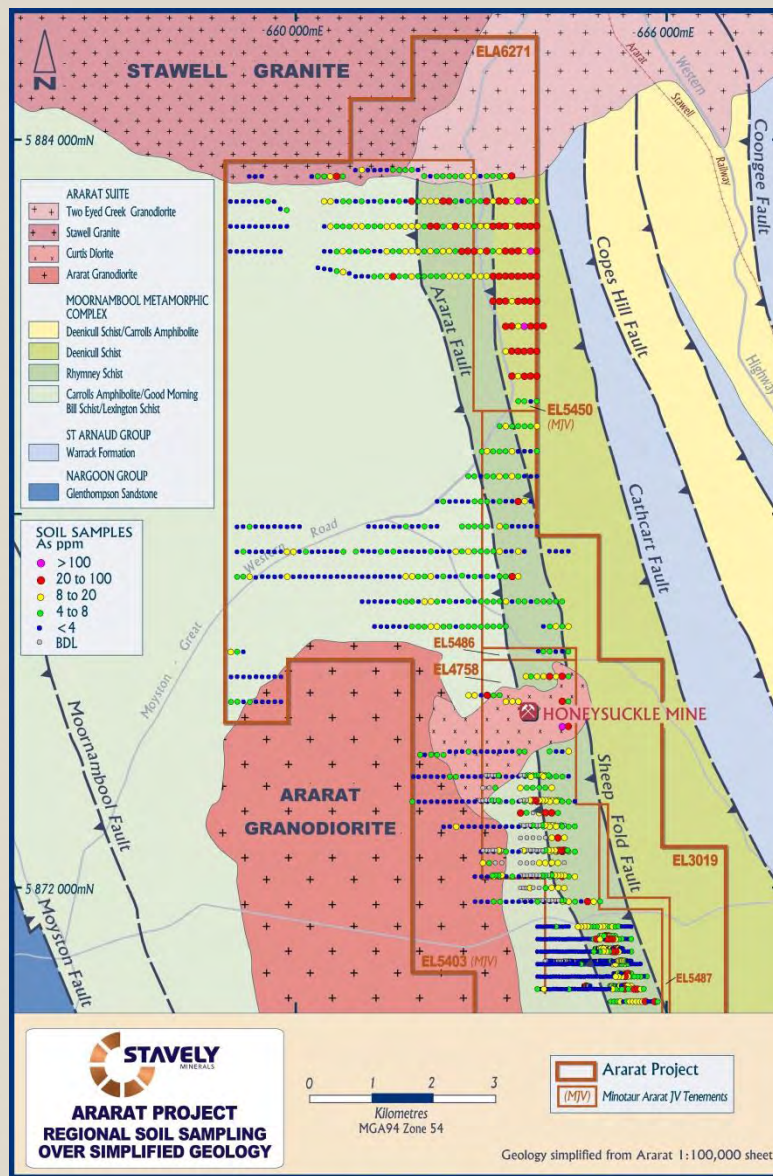
# ARARAT PROJECT



## Port Curtis Goldfield

- ✓ Historic gold mines hosted in late-stage granite
- ✓ Recent IP geophysics has identified a number of chargeability / resistivity anomalies
- ✓ Surface rock chips to 5.33g/t gold

# ARARAT PROJECT



## Stawell Granite South

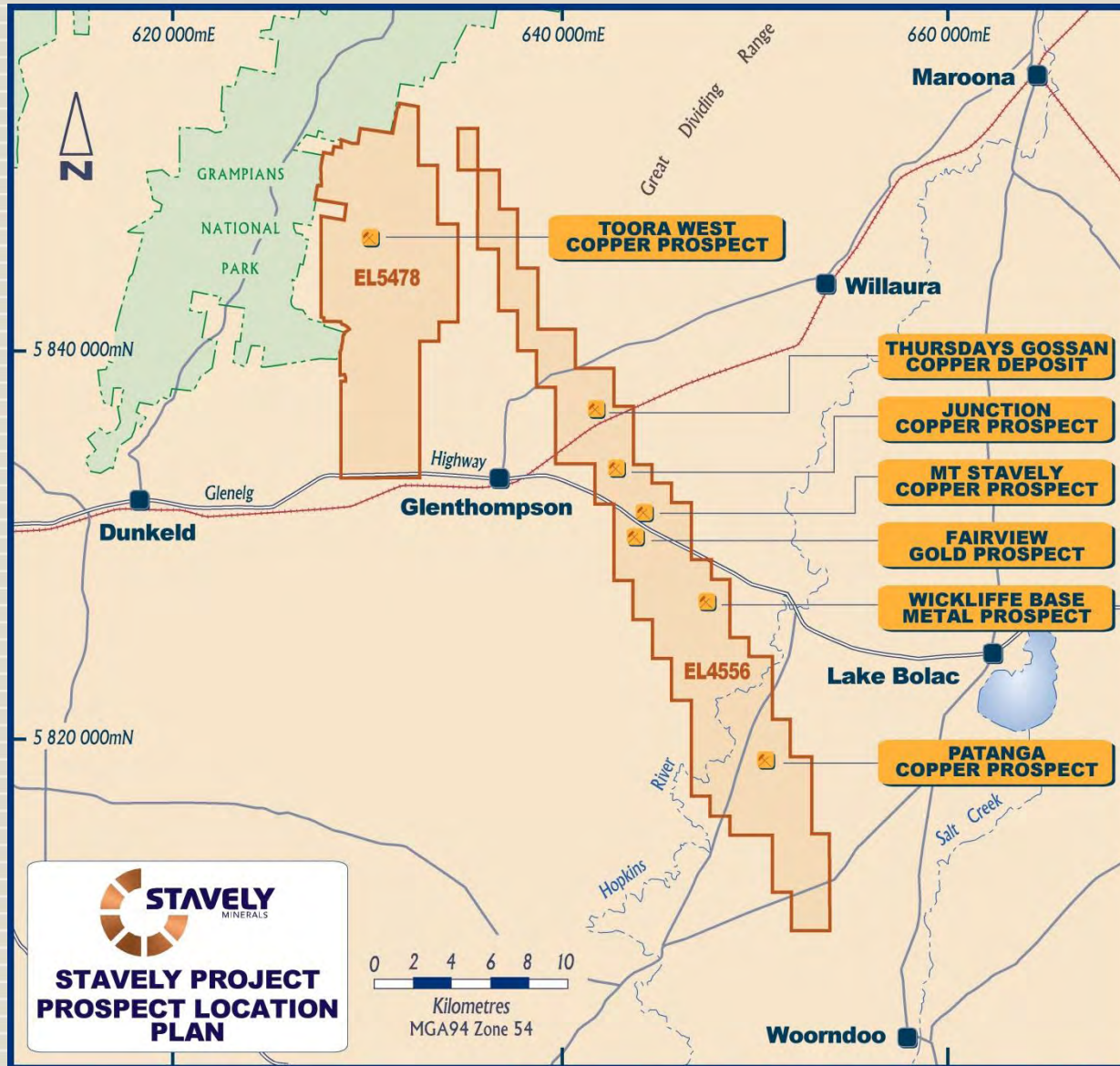
- ✓ Recent soil geochemistry has identified a 2.8km long arsenic anomaly with gold anomalism to 0.24g/t gold
- ✓ Historic gold mines Plantagenet, New Hope and Goldburra Mines.
- ✓ Mirror image of the Stawell Gold Mine on the north side of the Stawell Granite

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# **STAVELY AND YARRAM PARK PROJECTS**



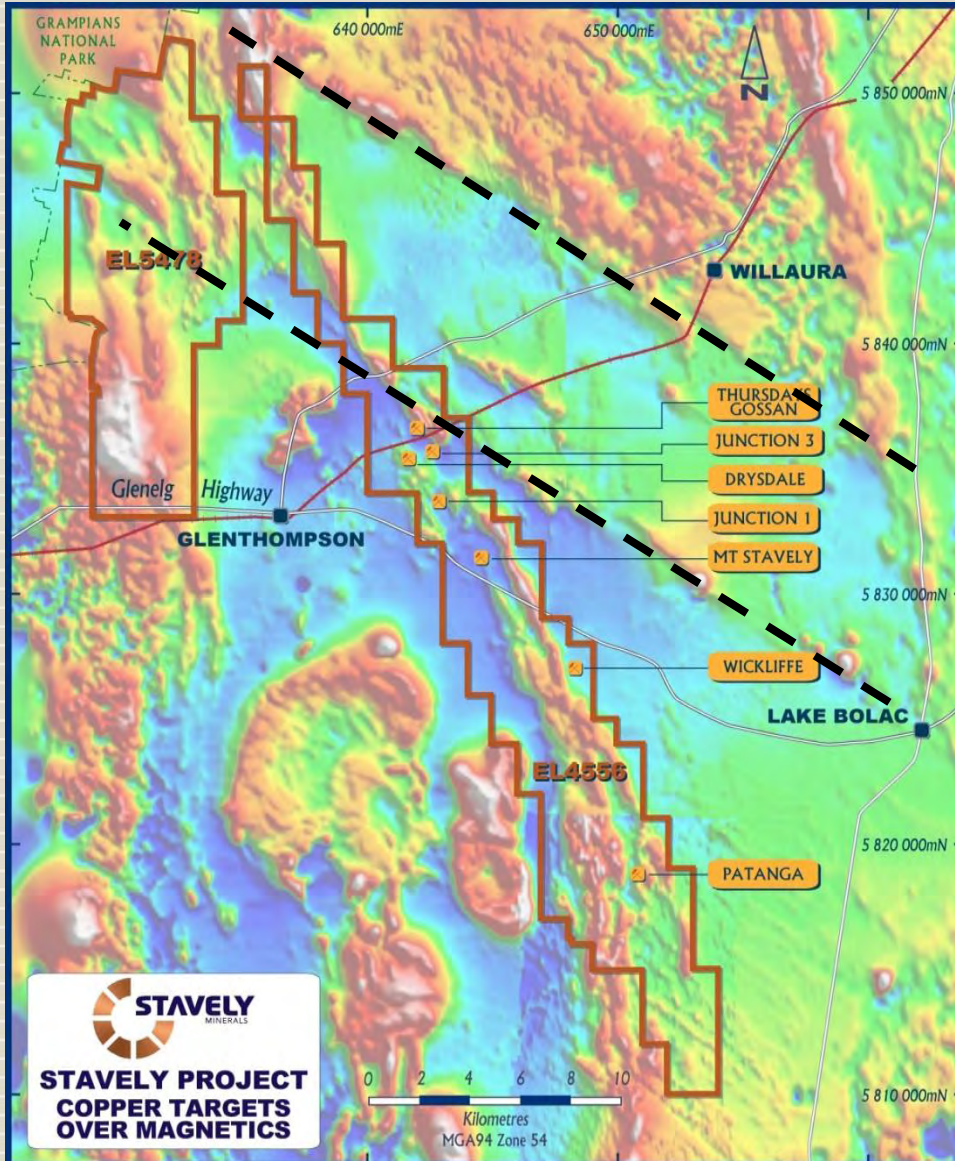
# STAVELY AND YARRAM PARK PROJECTS



- Thursday's Gossan chalcocite enriched blanket – Inferred Mineral Resource of **28Mt at 0.4% copper** containing 110kt copper
- Thursday's Gossan porphyry
- Junction porphyry
- Mount Stavely porphyry
- Fairview Gold prospect
- Wickliffe VMS prospect
- Patanga copper prospect
- Toora West porphyry prospect



# STAVELY AND YARRAM PARK PROJECTS

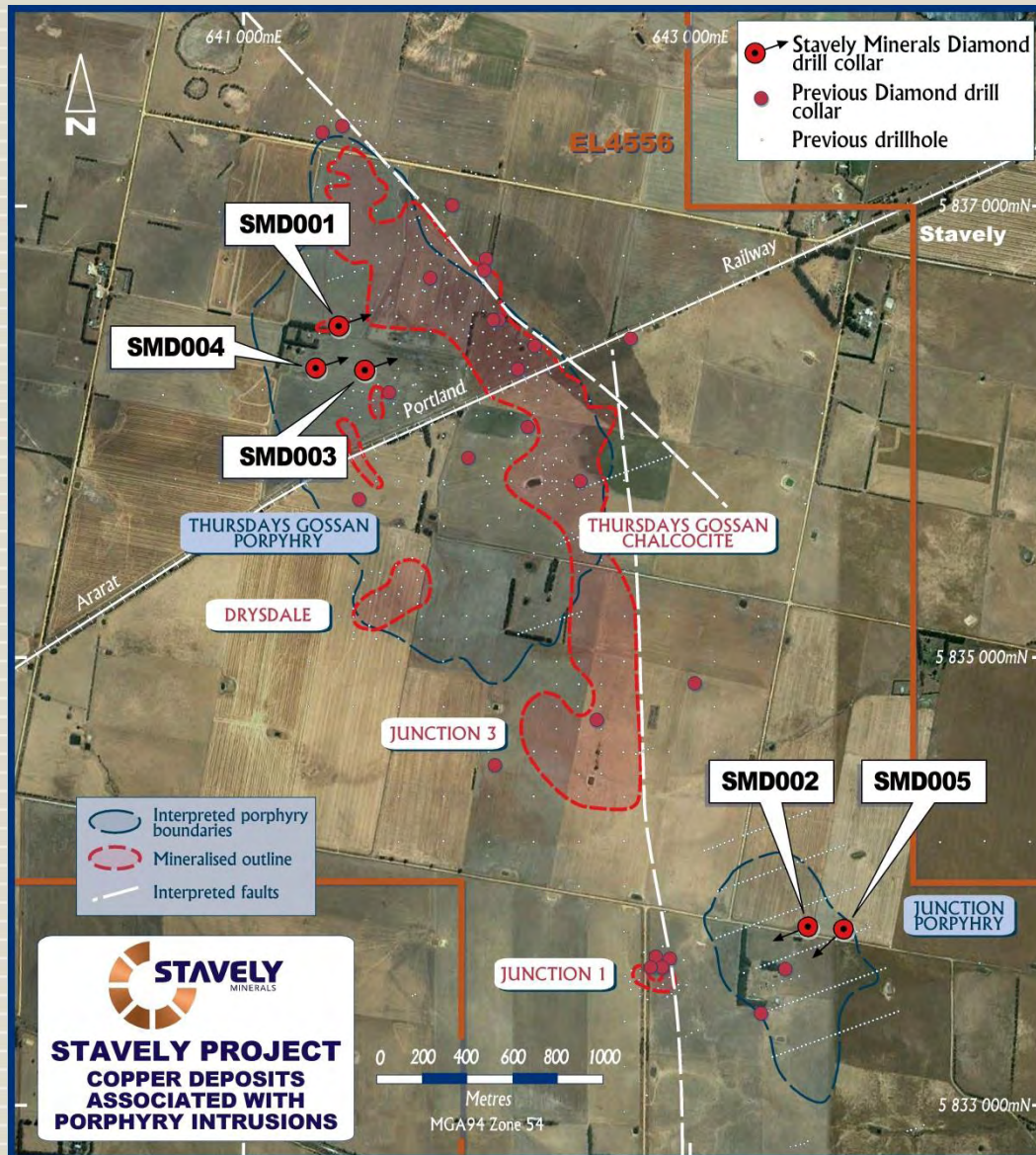


## Stavely Volcanic Arc

Similar structural setting to Cadia Valley

- ~N-S trending volcanic belt
- Major NW trending structures

# STAVELY PROJECT



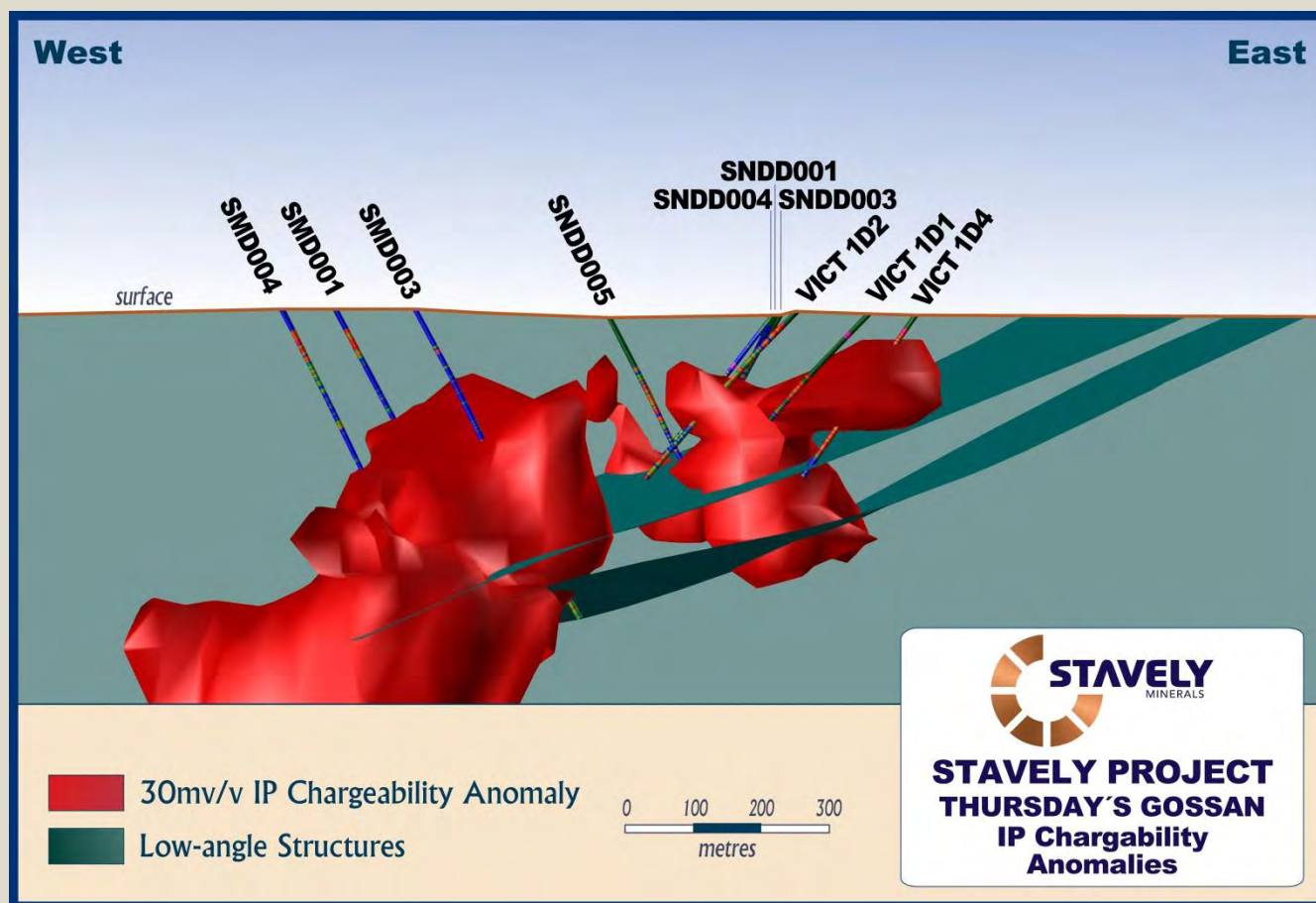
## Thursday's Gossan Porphyry

Stavely Minerals drilled 3 deep diamond drill holes (between 532m to 640m deep) into an induced polarisation (IP) chargeability anomaly



## Thursday's Gossan Porphyry

Drilling intercepted well-developed phyllic alteration (sericite-pyrite) which corresponded well with the IP chargeability anomaly

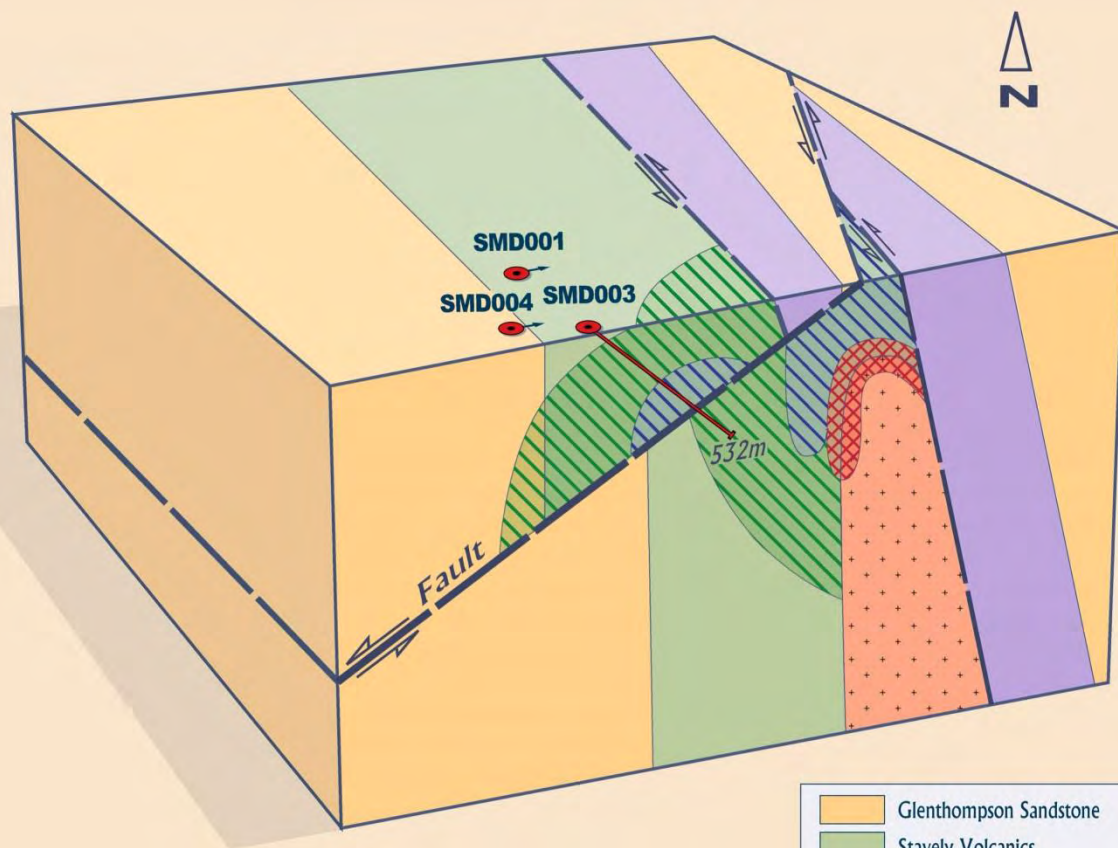


# STAVELY PROJECT



## Thursday's Gossan Porphyry

The three deep diamond drill holes identified a low-angle structural offset to the porphyry system

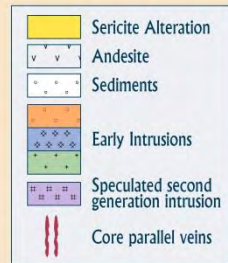


**Thursday's Gossan  
Prospect 3D Model**

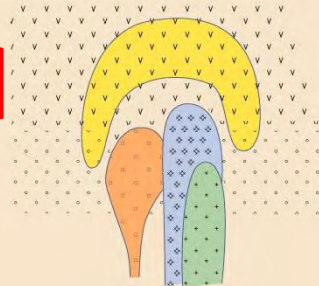
not to scale



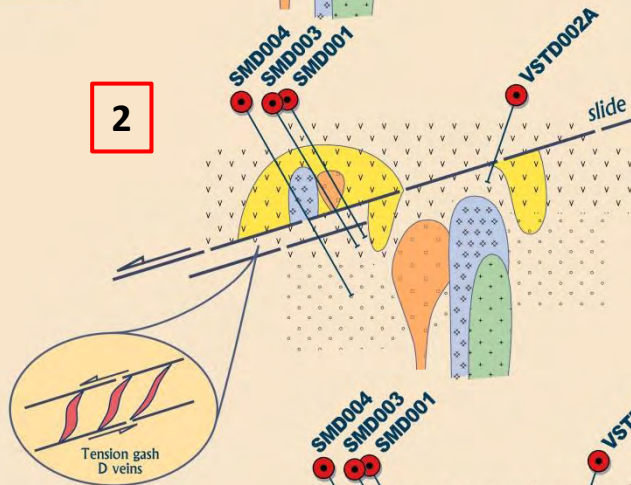




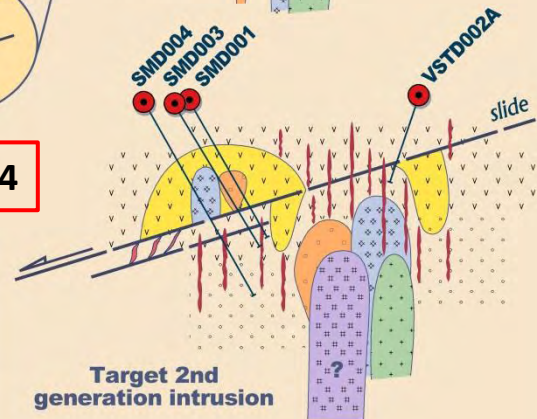
1



2



3 & 4



**Conceptual model for  
unroofing of the  
Thursday's Gossan  
Prospect**

not to scale

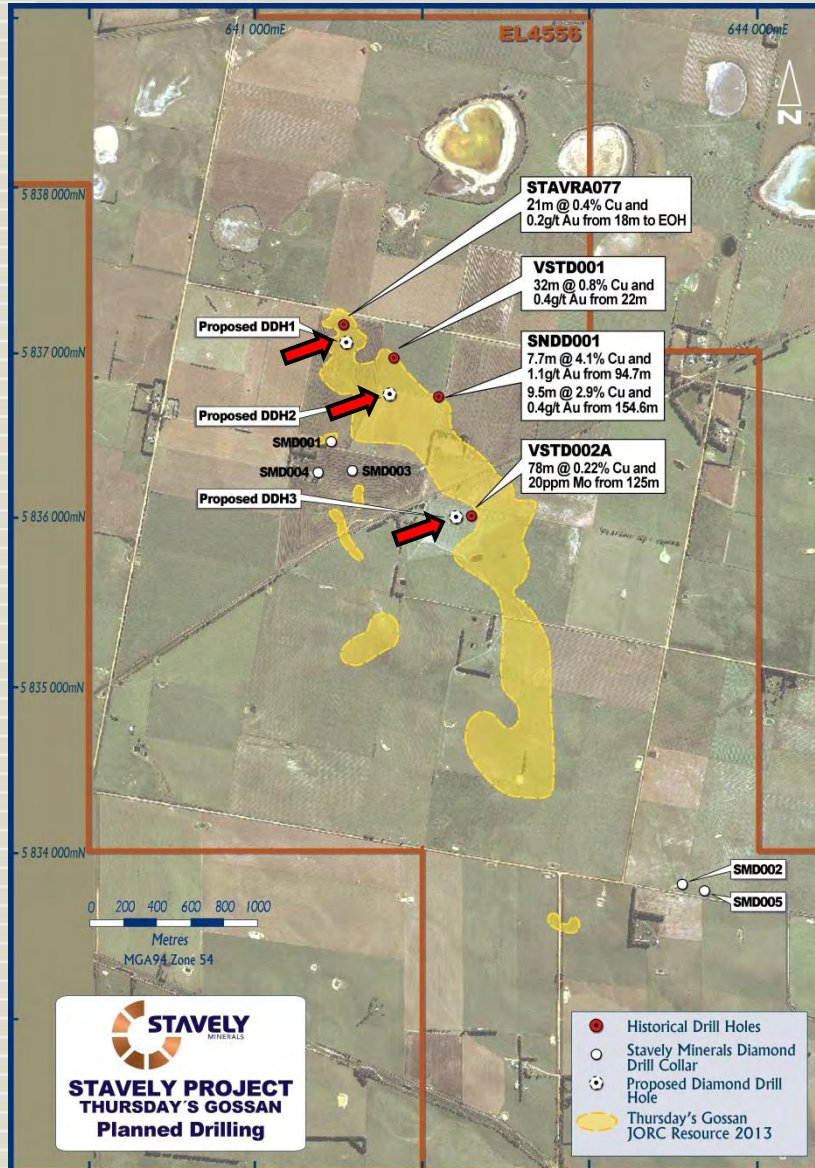
(after Corbett, 2014)

## Thursday's Gossan Porphyry

Interpreted evolution of the porphyry system:

1. Emplacement of early porphyry phases and incipient copper mineralisation
2. Low angle structural unroofing
3. Resurgent second-phase intrusion
4. High-grade copper-gold mineralisation

# STAVELY PROJECT



## Thursday's Gossan Porphyry

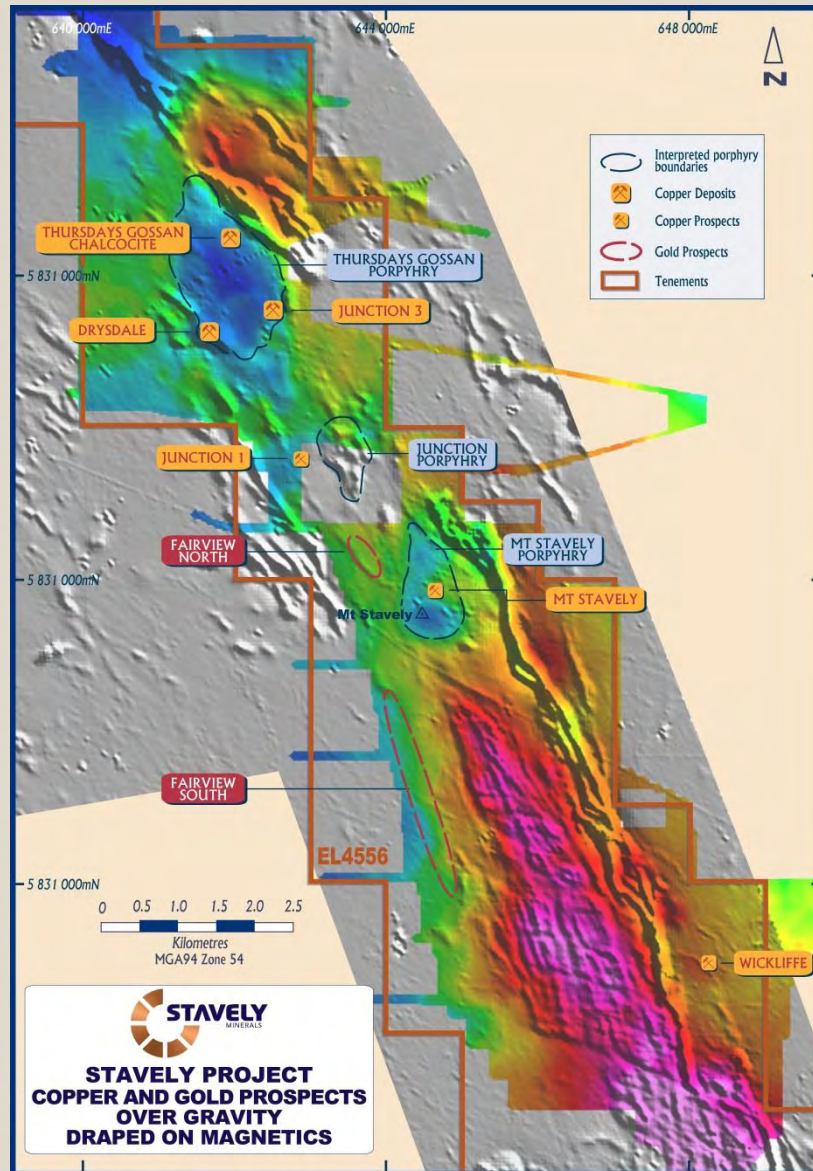
- ✓ Recently announced Victorian Government co-funding
  - 2 lines x IP geophysics
  - 3 x diamond drill holes
- ✓ 2 x drill holes targeting beneath the structure best gold-copper intercepts:
  - 21m at 0.4% copper and 0.2g/t gold
  - 32m at 0.8% copper and 0.4g/t gold
  - 7.7m at 4.1% copper and 1.1g/t gold
  - 9.5m at 2.9% copper and 0.4g/t gold
- ✓ 3<sup>rd</sup> drill hole targeting strong copper-moly anomaly

A decorative vertical bar runs down the left side of the slide. It is divided into two sections: the top section is a solid orange color, and the bottom section is a light beige color with thin, horizontal white lines.

# **MOUNT STAVELY AND FAIRVIEW**



# STAVELY PROJECT



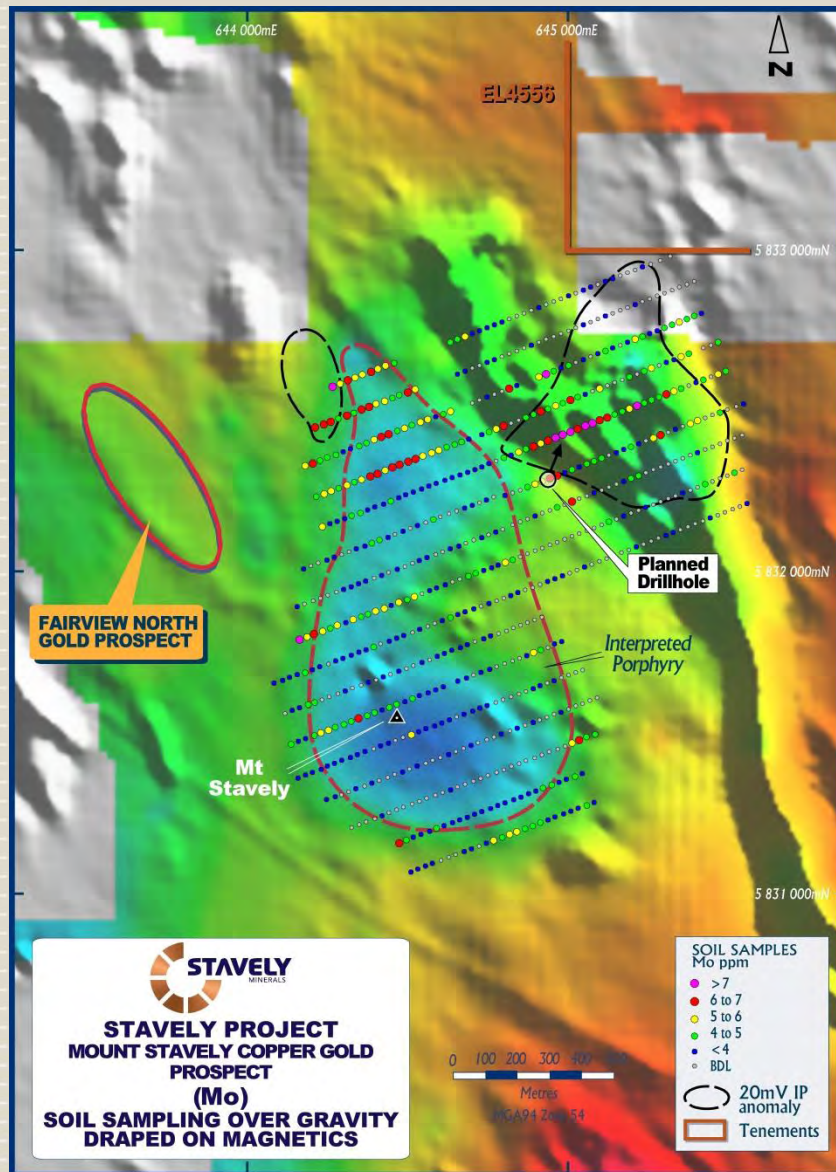
## Mount Stavely Porphyry and Fairview Gold

- ✓ Interpreted buried porphyry reflected in pronounced gravity low
- ✓ 5km of peripheral mesothermal to epithermal gold associated with quartz-sulphide veins (adularia noted)



# STAVELY PROJECT

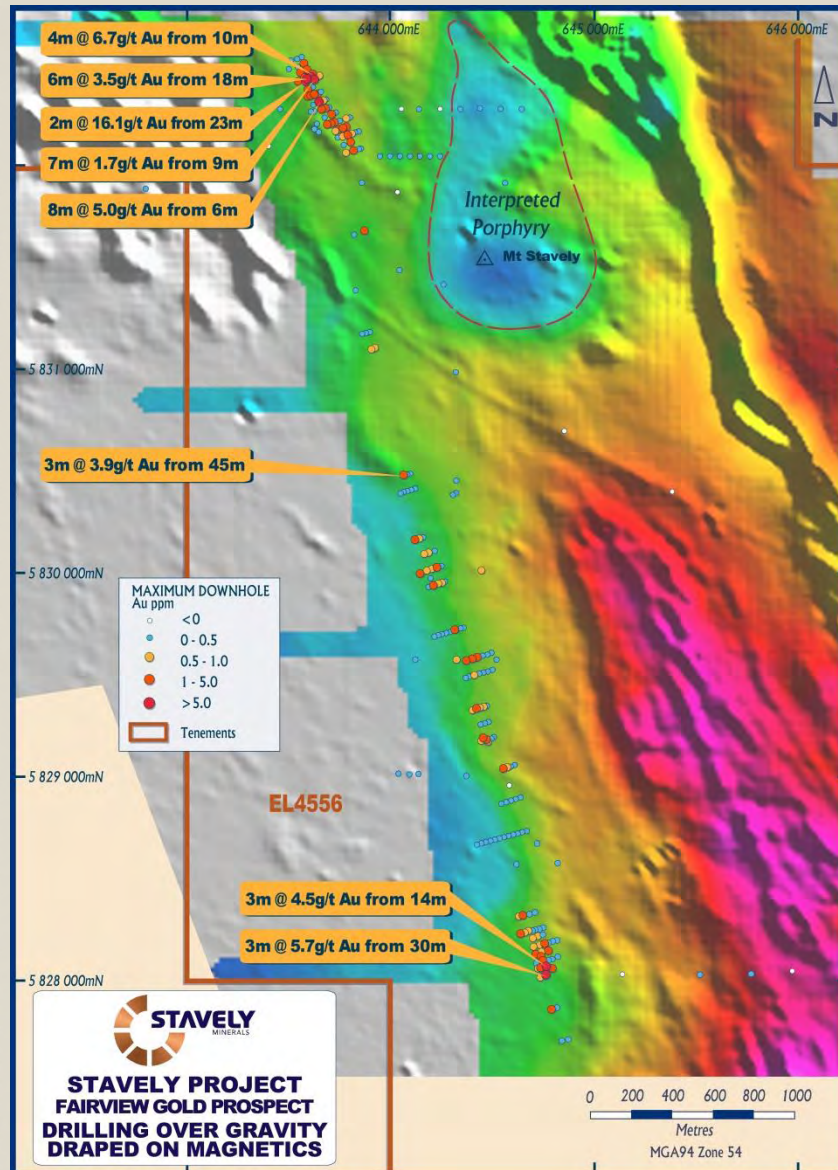
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MINERALS



## Mount Stavely Porphyry

- ✓ Inferred buried porphyry reflected in pronounced gravity low
- ✓ IP chargeability anomaly on NE margin
- ✓ Coincident molybdenum soil geochemistry anomaly (should indicate the centre of porphyry-style mineralisation)
- ✓ Also highest gold result at 49ppb
- ✓ **Victorian Government co-funding for one diamond drill hole to test, previously undrilled**

# STAVELY PROJECT



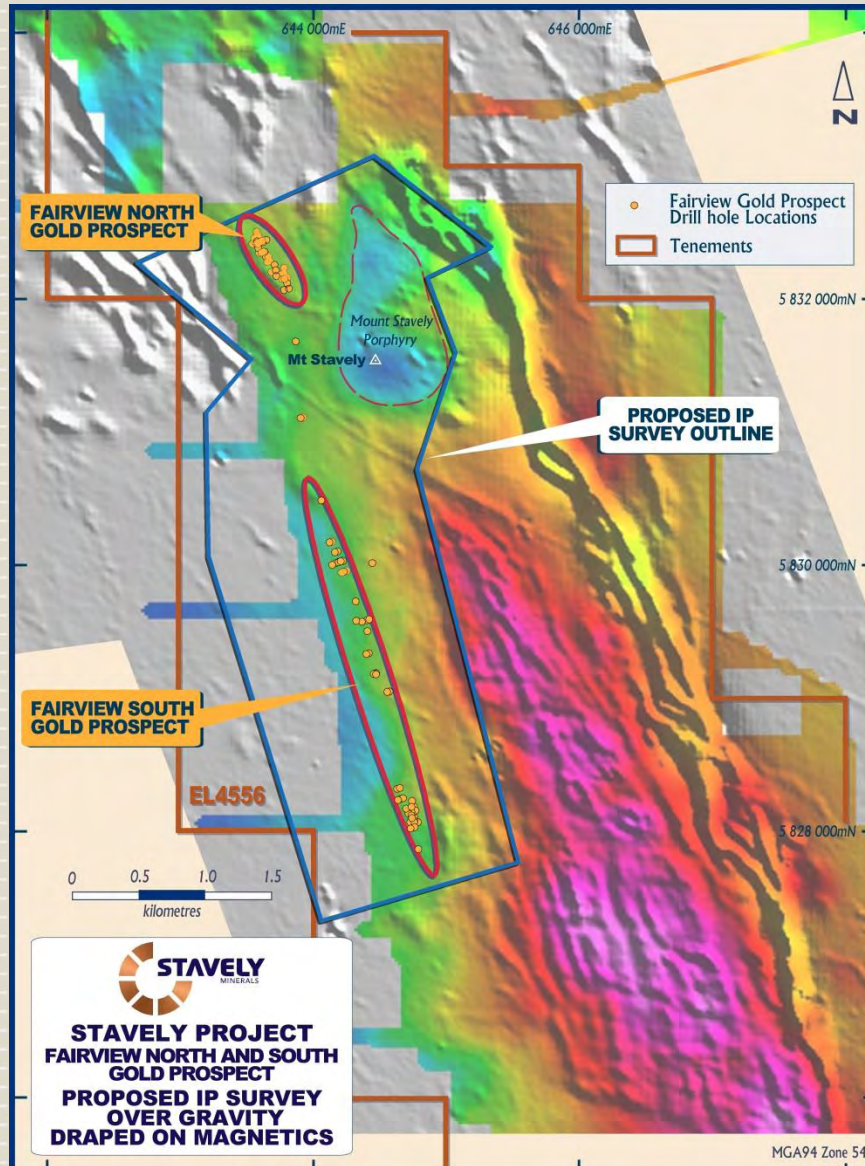
## Fairview Gold Prospect

- ✓ 5km strike of mesothermal to epithermal quartz-sulphide vein related gold mineralisation
- ✓ Previous drilling intercepts including:
  - **2.5m at 17.4 g/t gold** from 28m drill depth
  - **2m at 16.1 g/t gold** from 23m drill depth
  - **4m at 6.7 g/t gold** from 10m drill depth
  - **8m at 5.0 g/t gold** from 6m drill depth



# STAVELY PROJECT

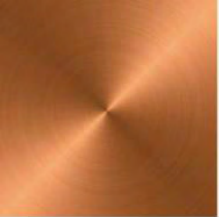
**STAVELY**  
MINERALS



## Fairview Gold Prospect

- ✓ Interpreted that the Fairview gold mineralisation is related to buried porphyry at Mount Stavelly
- ✓ Similar setting to Lake Cowal
- ✓ **Victorian Government co-funding for 17 x 2km IP geophysical lines**

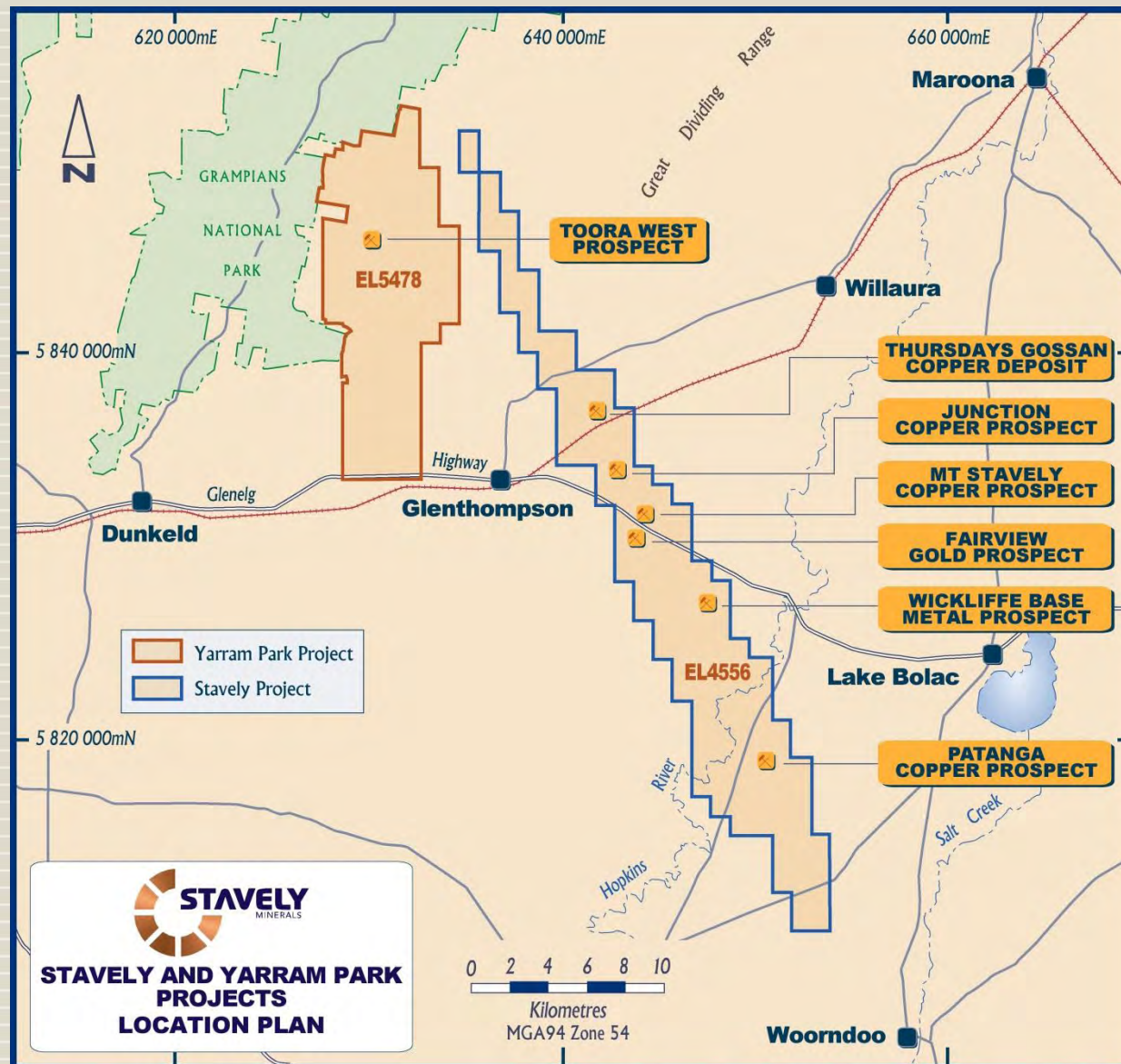




# YARRAM PARK

# YARRAM PARK PROJECT

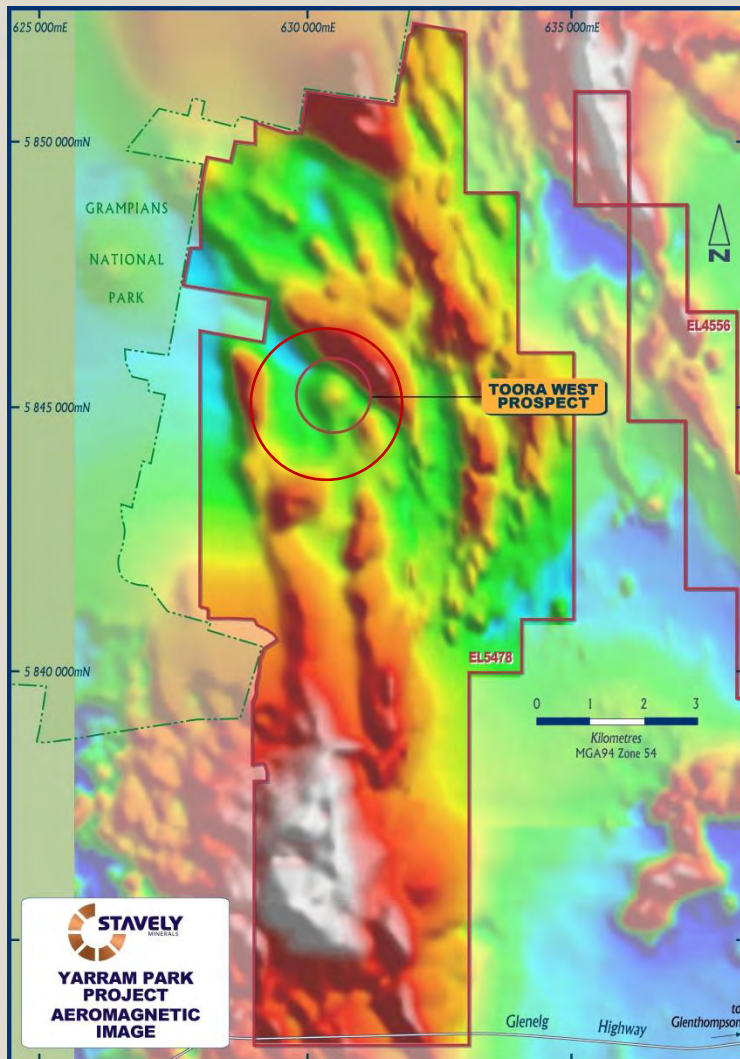
**STAVELY**  
MINERALS



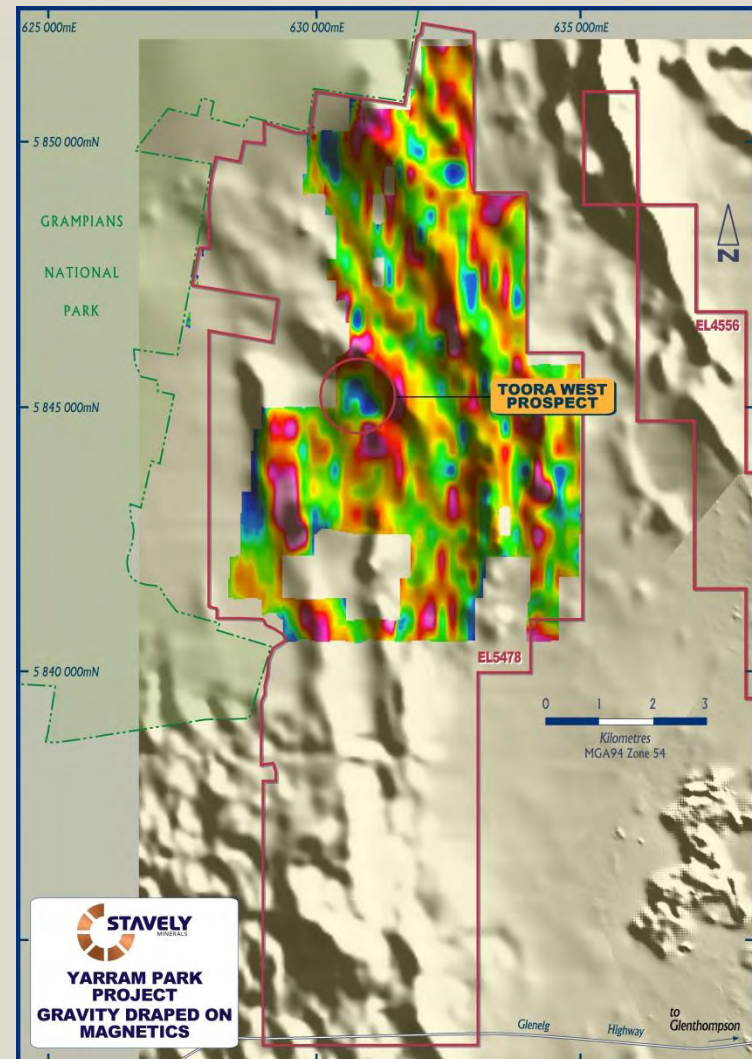
## Yarram Park Project

- ✓ Located on a structurally offset segment of the Stavelly Volcanic Arc
- ✓ Hosts the Toora West prospect

# YARRAM PARK PROJECT



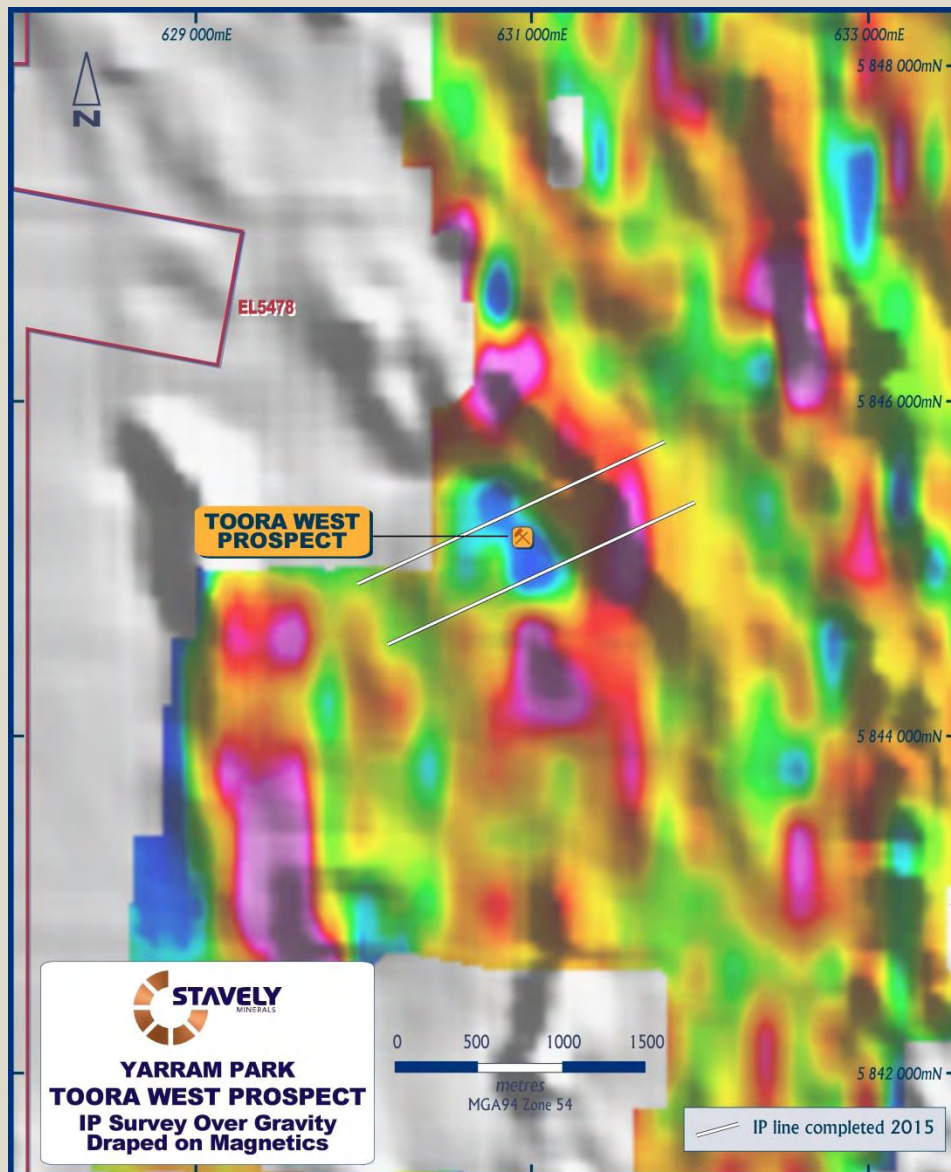
Mag high annulus and central high



Gravity low



# YARRAM PARK PROJECT



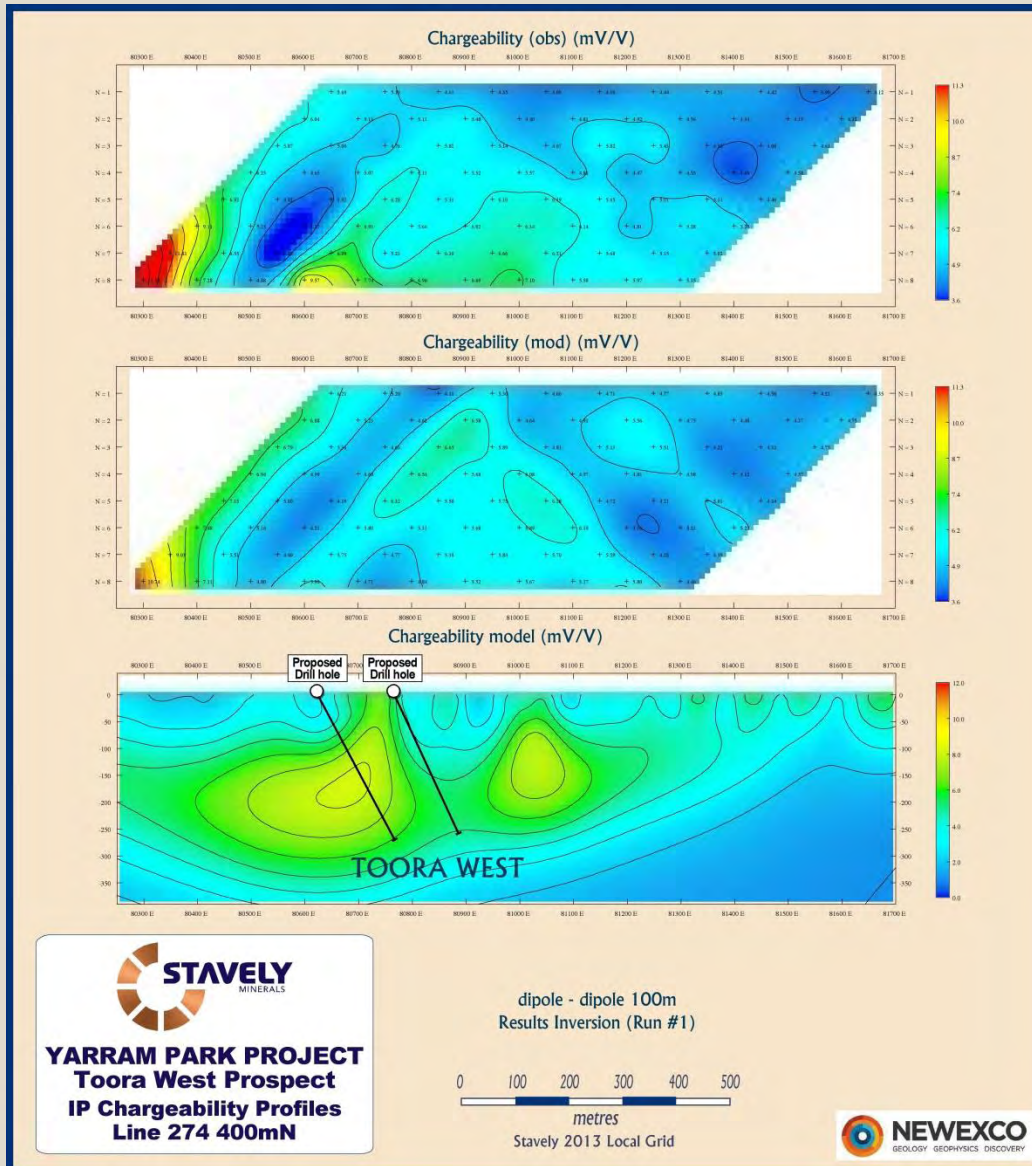
## Toora West prospect

- ✓ Mag high annulus and central high
- ✓ Gravity low

Two lines of IP completed

# YARRAM PARK PROJECT

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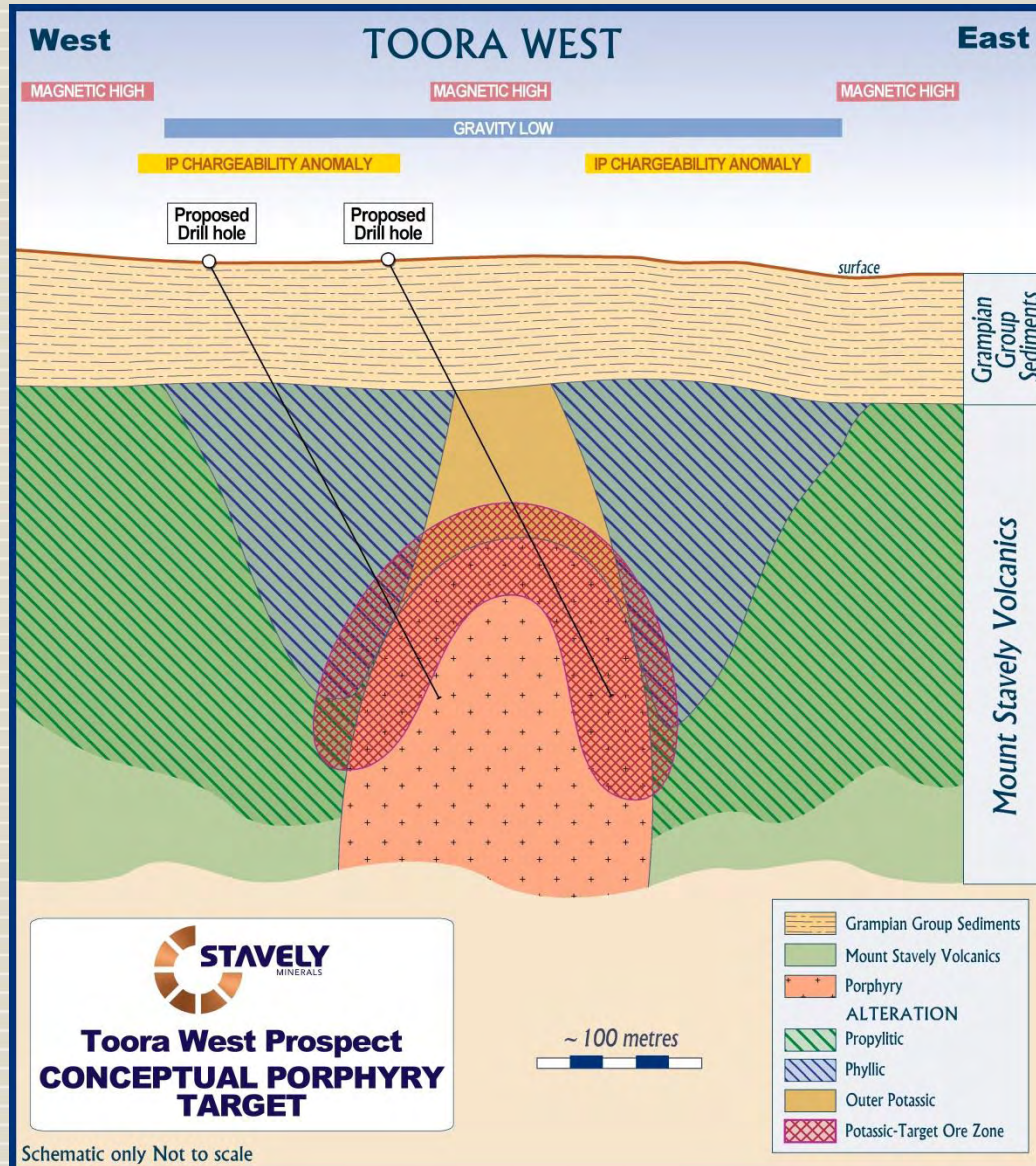


## Toora West prospect

- ✓ Mag high annulus and central high
- ✓ Gravity low
- ✓ Both IP lines have chargeability anomalies either side of the central magnetic high



# YARRAM PARK PROJECT



## Toora West prospect

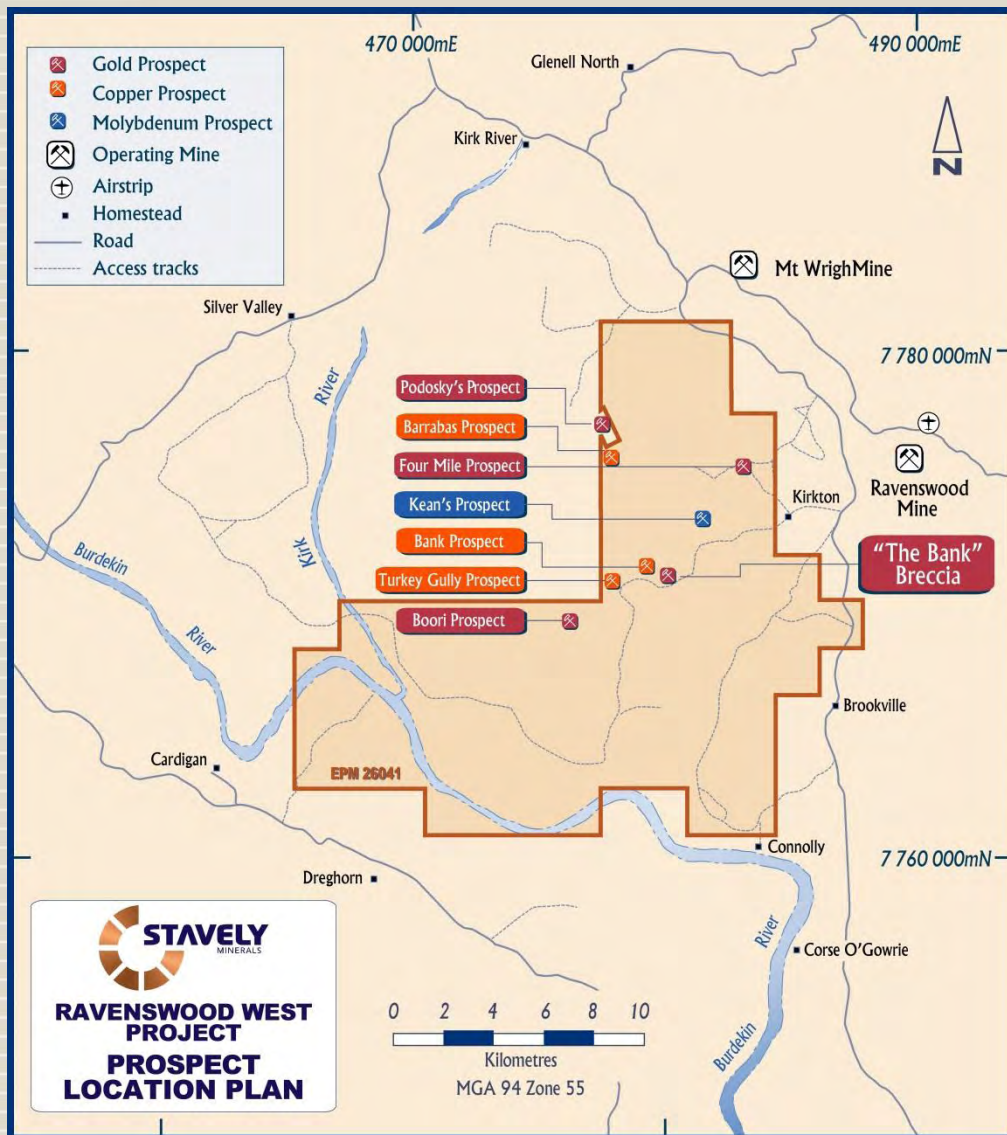
- ✓ Mag high annulus and central high
- ✓ Gravity low
- ✓ Both IP lines have chargeability anomalies either side of the central magnetic high
- ✓ **Victorian Government co-funding for an additional 3 lines of IP and 2 x diamond drill holes**
- ✓ **No previous drilling**



A decorative vertical bar runs down the left side of the slide. It is divided into two sections: the top section is a solid orange color, and the bottom section is a light beige color with thin, horizontal white lines.

# RAVENSWOOD PROJECT

# RAVENSWOOD PROJECT

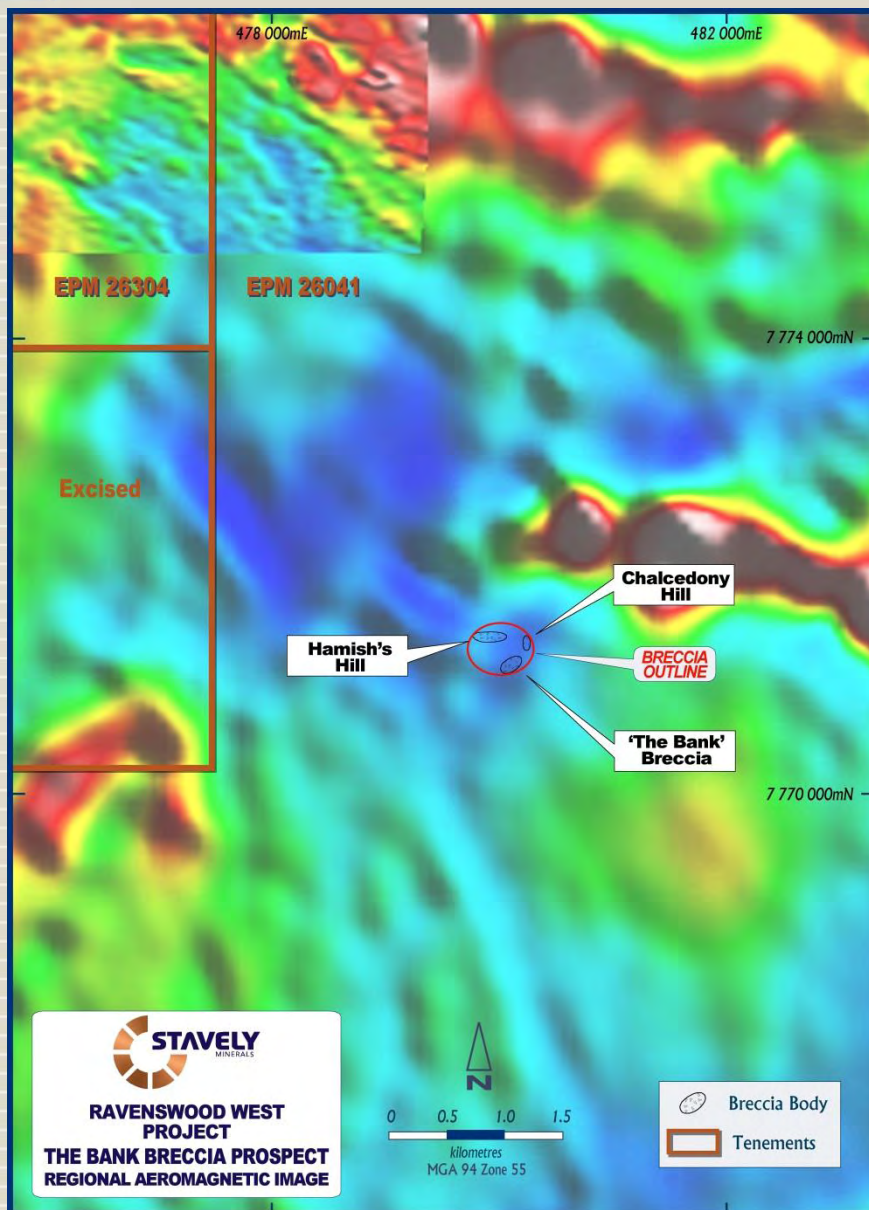


## Ravenswood Project

- ✓ Adjacent to the Ravenswood mining centre - ~4Moz produced
- ✓ 4 x porphyry copper / moly prospects
- ✓ 3 x mesothermal vein hosted gold prospects
- ✓ **'The Bank' breccia pipe**
  - Similar geochemistry to Mt Wright (1Moz) and Welcome (210koz) breccia pipes
  - **undrilled**

# RAVENSWOOD PROJECT

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## Ravenswood Project

Other notable IRGS gold deposits in north east Queensland include:

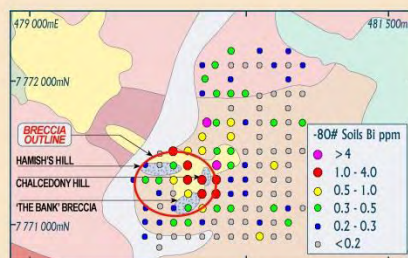
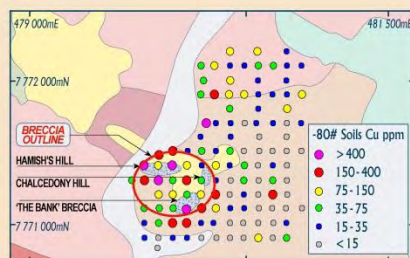
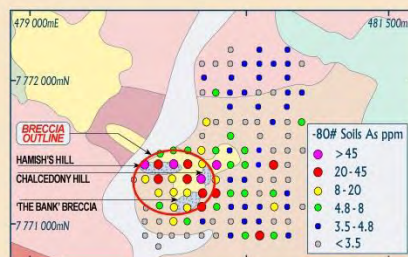
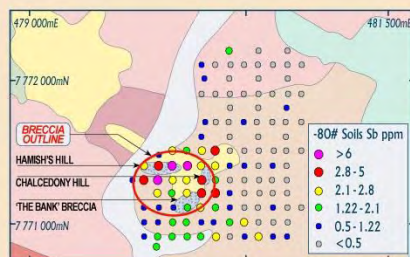
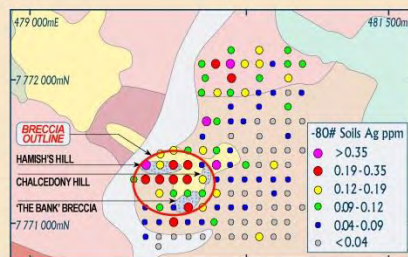
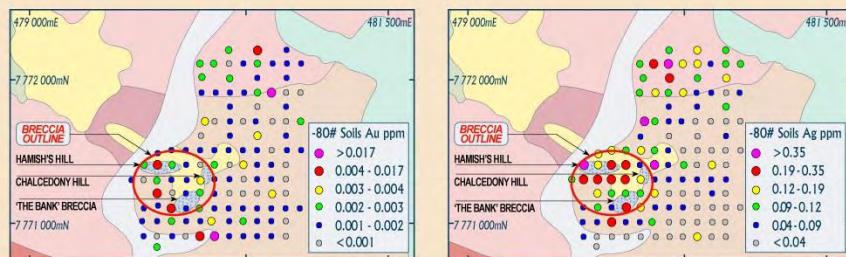
<u>Deposit</u>	<u>Contained oz</u>
Kidston*	5.0 million
Ravenswood	4.8 million
Mount Leyshon*	3.5 million
Red Dome	2.1 million
Mungana	1.1 million
Mount Wright*	1.0 million
Welcome*	0.21 million

\*=breccia hosted



# RAVENSWOOD PROJECT

**STAVELY**  
MINERALS

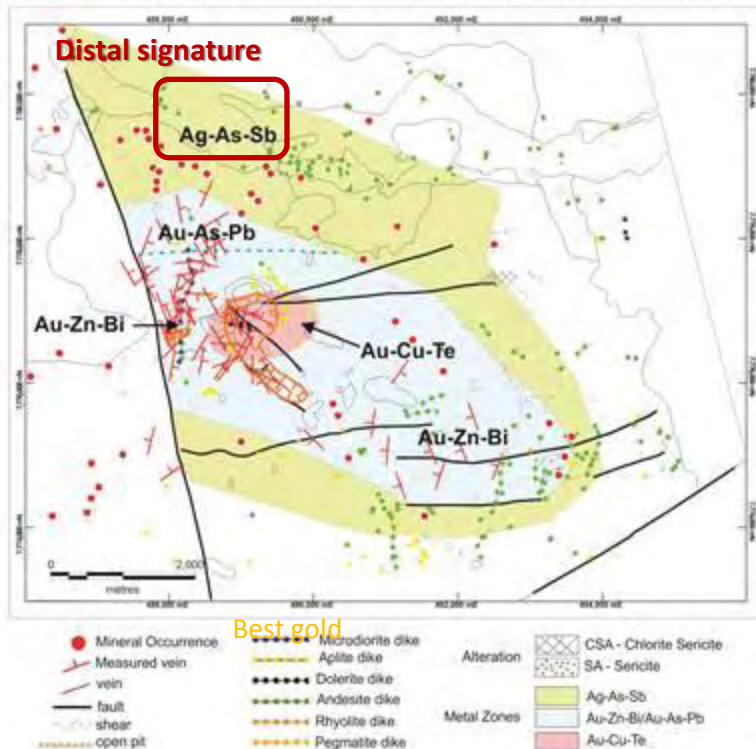


## The Bank breccia soil geochemistry

- ✓ Classic high-level geochemical zonation
- ✓ Proximal silver, arsenic, antimony, bismuth and copper with spotty gold
- ✓ Peripheral Pb, Zn and Thallium
- ✓ Likely the best developed gold mineralisation is at depth

# Ravenswood District: *Ravenswood Town metal zoning*

## Ravenswood Interpreted Metal Zoning



Best gold

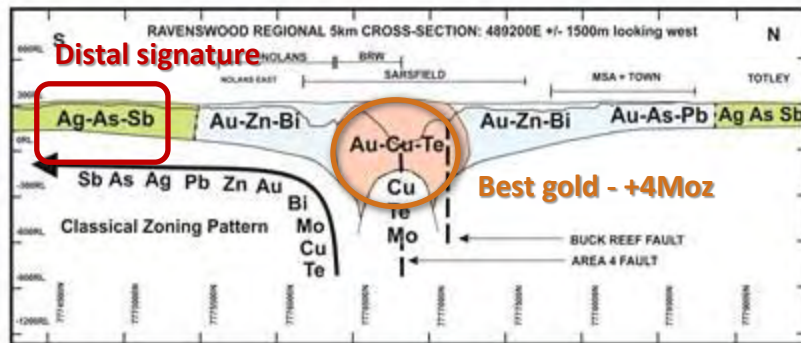
Centred on Area 4 Fault in Sarsfield pit  
With the deepest mineralisation

Zoning of key metals up & out  
Mushroom shape from to central feeder  
and dispersion in re-activated structures

Zoning reflects declining temperature  
Consistent with alteration zones

best ore shallow central

Ore by fluid decompression  
At structure intersection



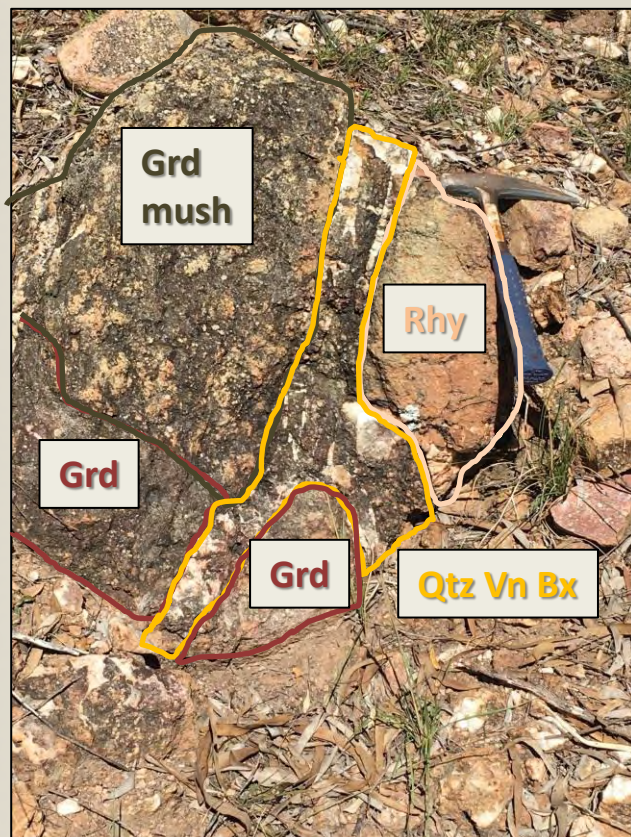


# RAVENSWOOD PROJECT



## Ravenswood Project – ‘The Bank’ breccia

Brecciated rhyolite, granodiorite, vein fragments in a quartz matrix with boxworks after sulphides

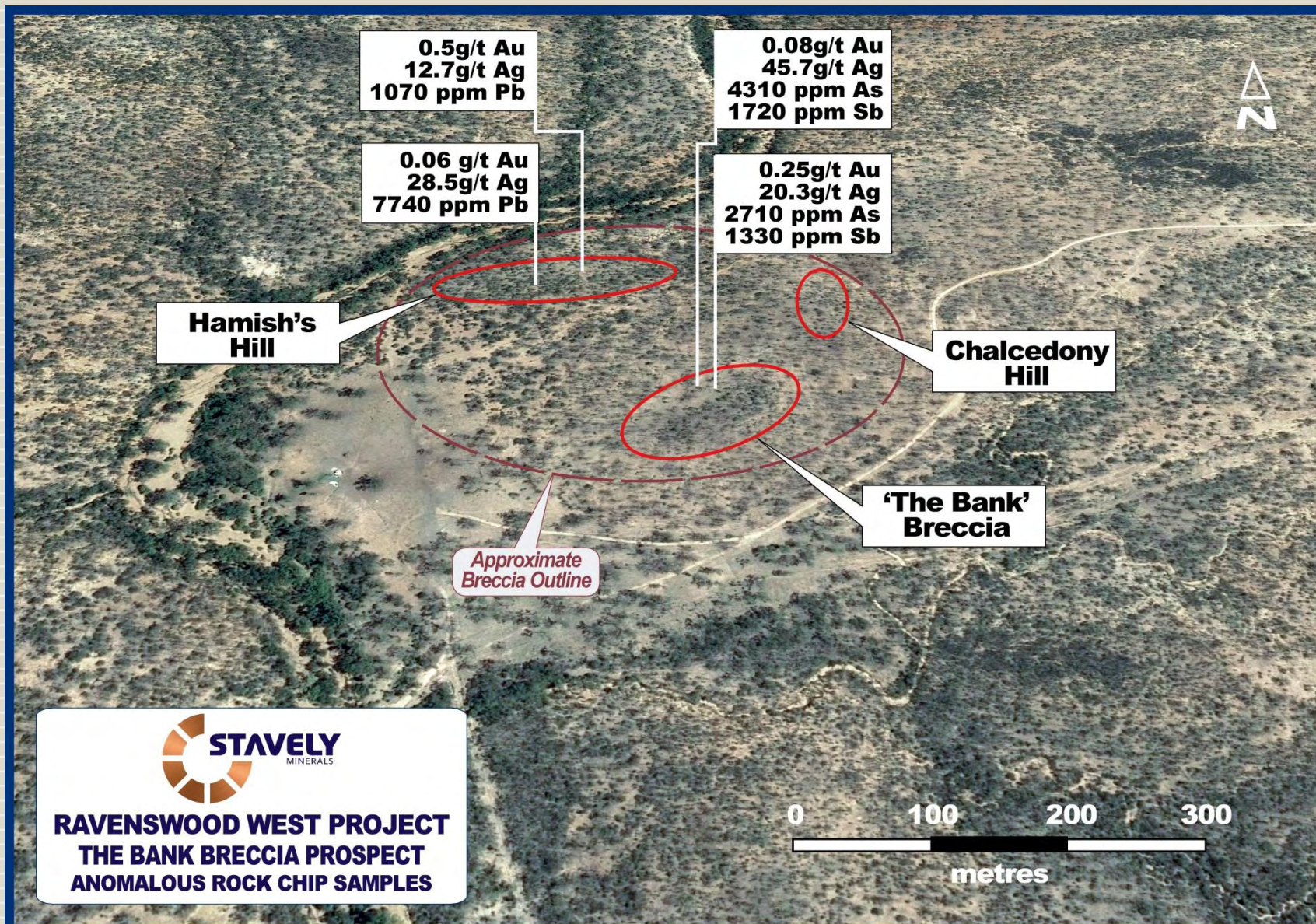


Brecciated chalcedony veins with granodiorite clasts = high level in the system

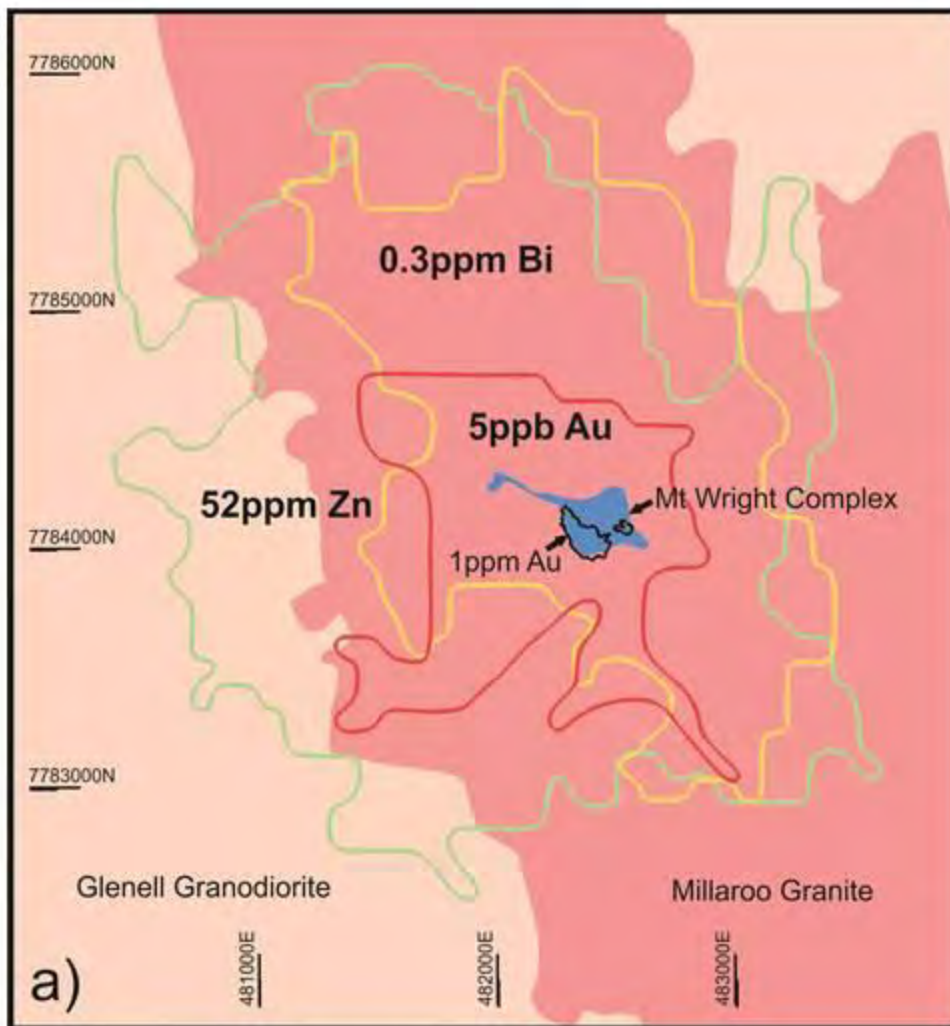




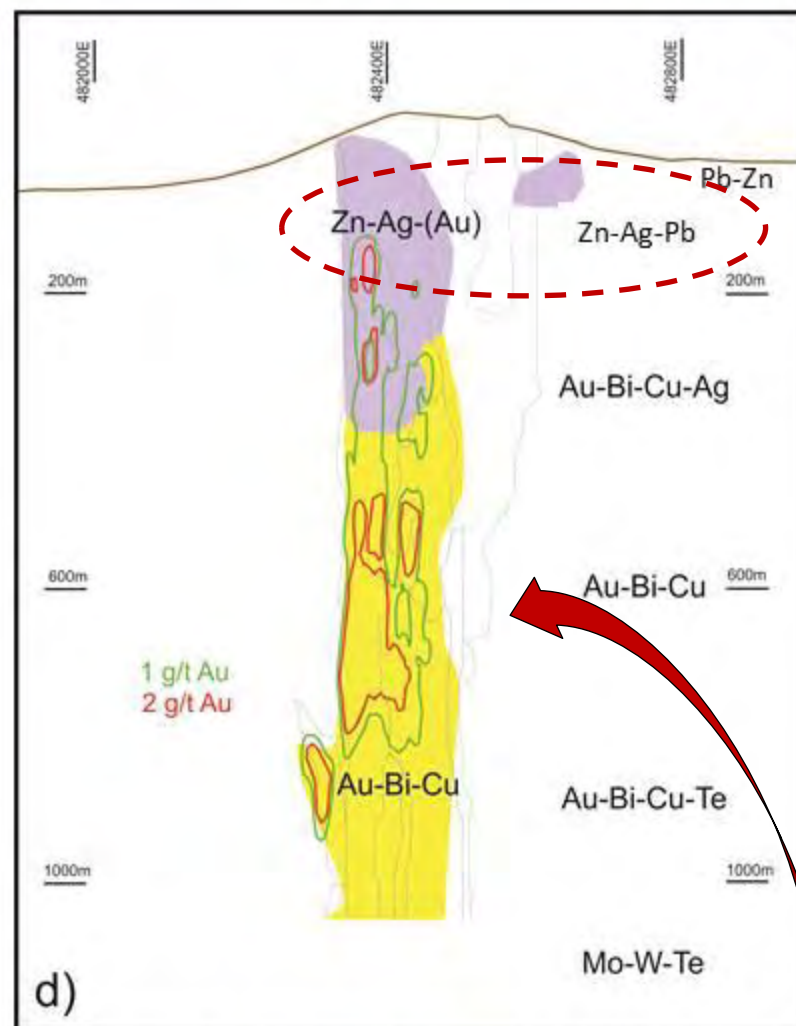
# RAVENSWOOD PROJECT





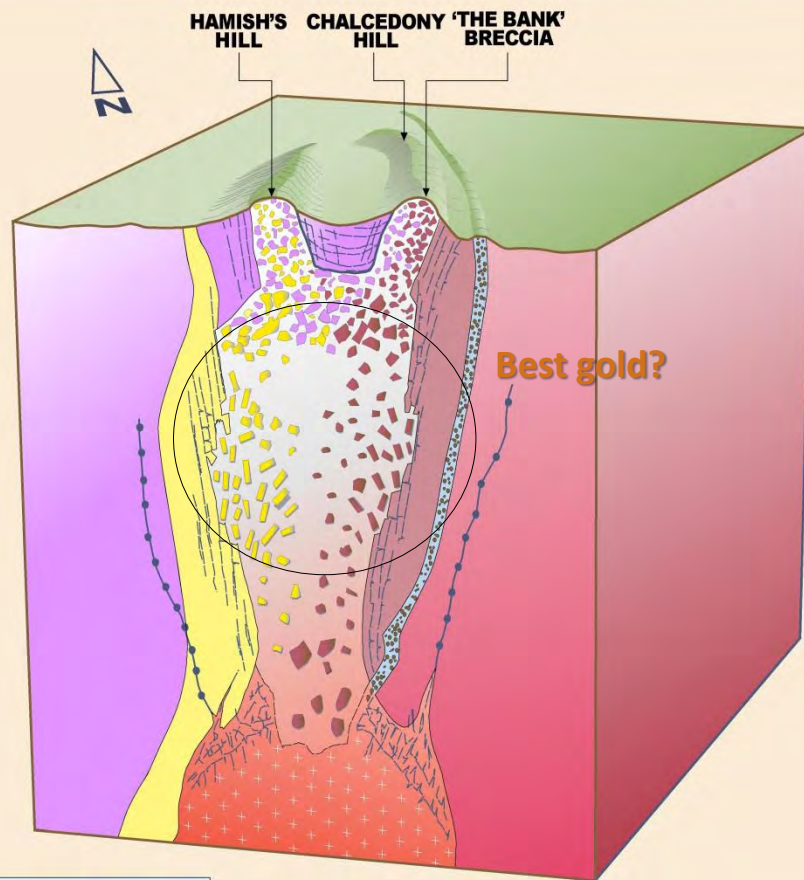


3km diameter soil anomaly Zn, Bi,  
Au only 5ppb on hill



1km tall system, well zoned  
Au 0.1ppm at surface,  
Best Au ore 500-800m below

# RAVENSWOOD PROJECT



scale approximate



## Ravenswood Project – 'The Bank' breccia

High-level of exposure:

- ✓ Strong lead, silver, arsenic, antimony soil and rock-chip geochemistry
- ✓ Spotty gold but consistent with Mt Wright
- ✓ Magnetic low
- ✓ Rhyolite dykes and breccia clasts

Interpretation:

- ✓ **Best developed gold preserved at depth**



A vertical bar on the left side of the slide, transitioning from a solid orange color at the top to a series of thin, horizontal white lines on a dark blue background.

# WORK PROGRAMMES

## **Work programme for the Thursday's Gossan Chacocite 'Blanket'**

- Commence a Scoping Study on low-cost copper production

## **Work programme for the Ararat Project**

- Additional surface geochemistry and IP geophysics to identify additional base metal–gold mineralised horizons in advance of drilling

## **Work programme for the Stavelly Project**

- At Thursday's Gossan - 2 x IP lines and 3 x 300m diamond drill holes
- At Mount Stavelly – 1 x 300m diamond drill hole
- At Fairview Gold – 17 x 2km IP lines

## **Work programme for the Yarram Park Project**

- At Toora West - 3 x IP lines and 2 x 300m diamond drill holes

## **Work programme for the Ravenswood Project**

- Regional soil geochemistry
- At 'The Bank' Breccia – drilling, current plan 4 x 300-400m diamond drill holes

**Scoping Study on copper production and multiple significant discovery opportunities**

# WORK PROGRAMMES

## Work programme for the Thursday's Gossan Chacocite 'Blanket'

- Commence a Scoping Study on low-cost copper production

## Work programme for the Ararat Project

- Additional surface geochemistry and **IP geophysics** to identify additional base metal–gold mineralised horizons in advance of drilling

## Work programme for the Stavely Project

- At Thursday's Gossan - **2 x IP lines** and **3 x 300m diamond drill holes**
- At Mount Stavely – **1 x 300m diamond drill hole**
- At Fairview Gold – **17 x 2km IP lines**

## Work programme for the Yarram Park Project

- At Toora West - **3 x IP lines** and **2 x 300m diamond drill holes**

## Work programme for the Ravenswood Project

- Regional soil geochemistry
- At 'The Bank' Breccia – drilling, current plan **4 x 300-400m diamond drill holes**

**Bold = Victorian Government co-funding on offer**



# STAVELY MINERALS

**STAVELY**  
MINERALS

ASX Code – SVY

Share Price - \$0.21

Cash (30/06/16) - \$1.52M\*

*\*Excludes Titeline Drilling agreement*

Shares on Issue – 95.5M

Market Cap - \$20.05M

Management ~50% equity

## Directors

Bill Plyley

*Non-executive Chairman*

Chris Cairns

*Managing Director*

Jennifer Murphy

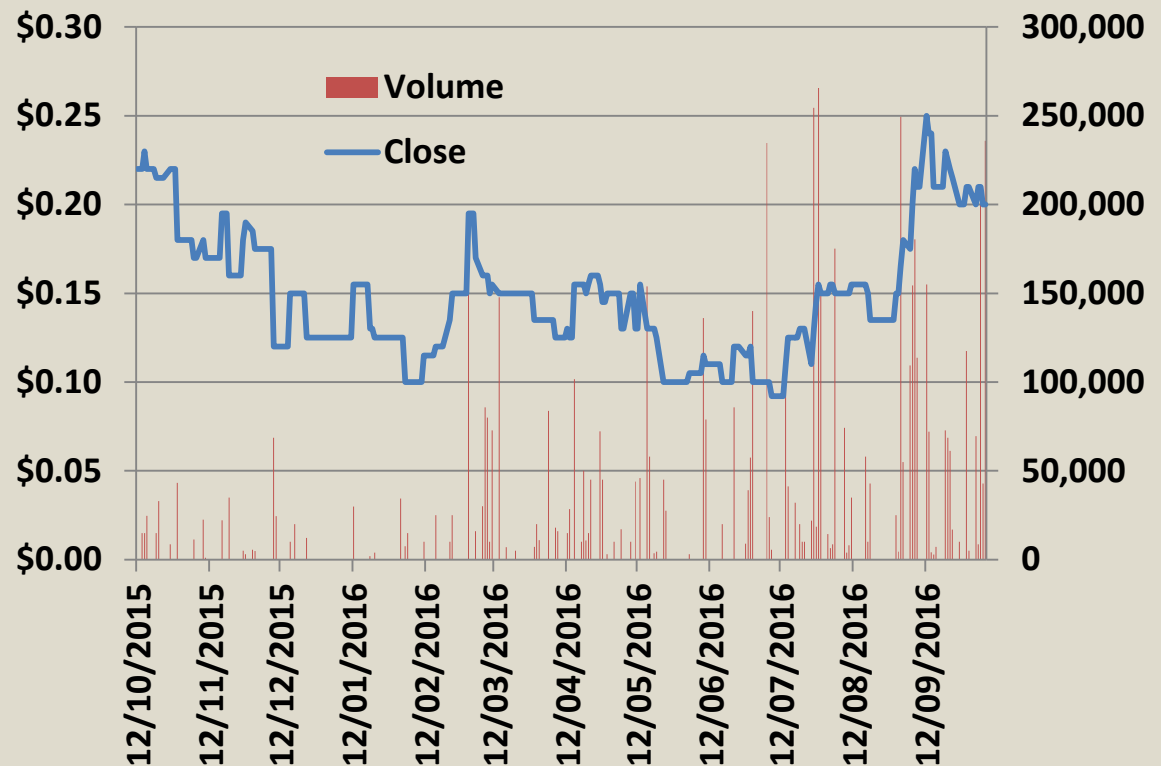
*Technical Director*

Peter Ironside

*Non-executive Director*

Amanda Sparks

*Company Secretary*



*\*\$2m share subscription agreement with Titeline Drilling Pty Ltd announced to the ASX on 7 October 2014*

## Thank You

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