#### **TRUNDLE PARK PROSPECT:** EVOLVING GEOLOGICAL INSIGHTS THROUGH DEEPER DRILLING

# **KINCORA** COPPER

Paul Cromie: Exploration Manager Discoveries in the Tasmanides: Mines & Wines Conference, Orange, NSW 13<sup>th</sup> May 2022

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#### Kincora Copper - paper for Discoveries in the Tasmanides

#### Topic - TRUNDLE PARK COPPER-GOLD PROSPECT: EVOLVING GEOLOGICAL INSIGHTS THROUGH DEEPER EXPLORATION DRILLING

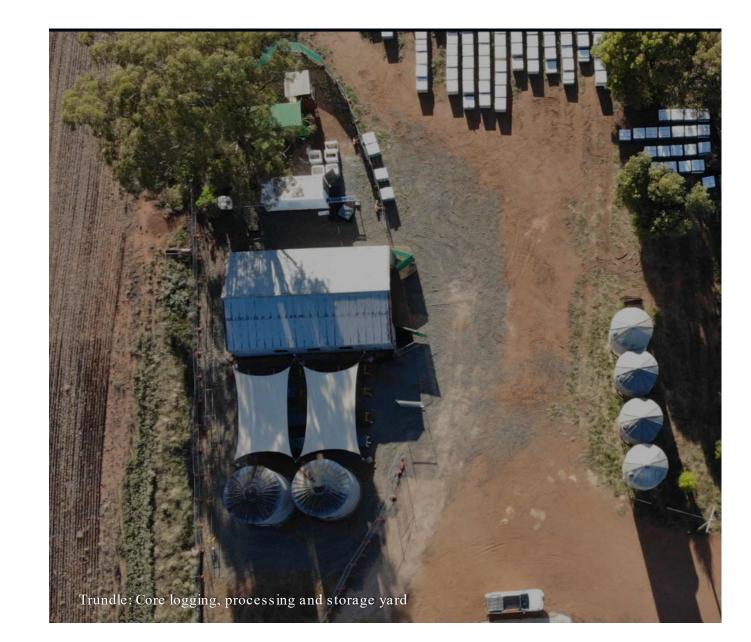
Authors – Dr. Paul Cromie (presenter), Sam Spring, John Holliday, Peter Leaman, Batbayar (Baggy) Enkhbold, Ben Jones, Jim Finlay, Molor Erdenebat, Tsolmon Amgaa & Jeff Vassallo Available at - https://kincoracopper.com/wp-content/uploads/2022/04/20220422 Kincora-Copper Trundle-Park-paper MW AIG-Bulletin.pdf

#### **Presentation outline**

- District setting and targeting models
- Trundle Project:
  - Geology
  - Exploration Background
- Trundle Park Prospect:
  - Geological insights
  - Observations & learnings

#### Acknowledgements:

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- Kincora team members



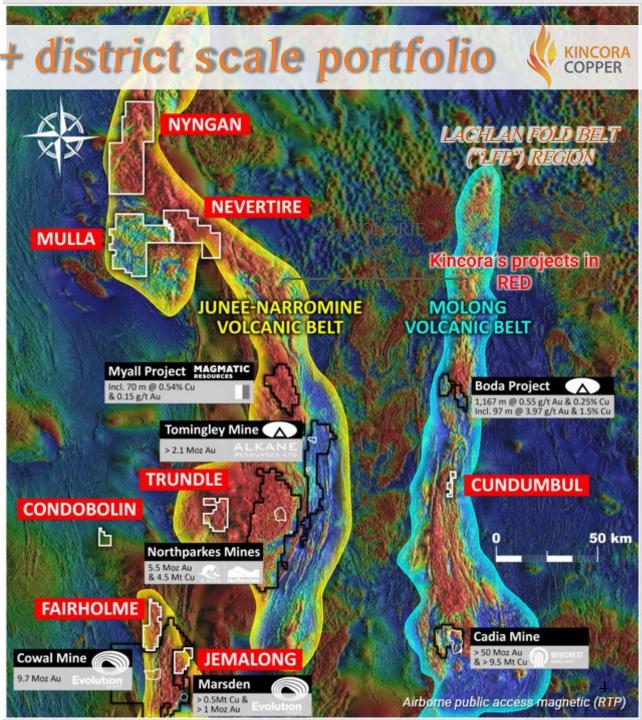
#### Targets: Kincora's strategic + district scale portfolio

Favorable locations in key Macquarie Arc volcanic belts

Advanced exploration stage &/or host large footprints

New discovery at Southern Extension Zone (Trundle project)

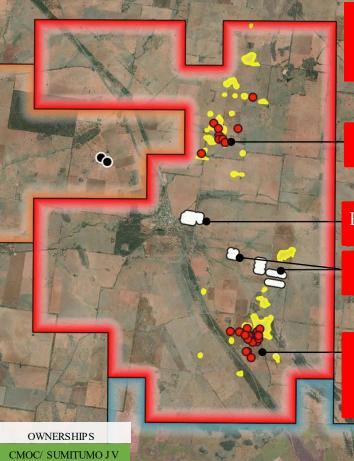
Project	Macquari e Arc	Proximity to world-class mine	Near term drilling	Level of prior drilling	Evidence of Cu & Au	Last partner / owner
Trundle *	$\sqrt{\sqrt{\sqrt{1}}}$	Same system as Northparkes	√on-going + adj license	$\sqrt{\sqrt{\sqrt{1}}}$	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	High Powered Exploration
Fairholme *	$\sqrt{\sqrt{\sqrt{1}}}$	<15km to Cowal	√ on-going + Co-op funding	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	$\sqrt{}$	Kaizen Discovery
Nyngan	$\checkmark$		√ first hole + Co-op funding	$\checkmark$	$\checkmark$	Newcrest
Nevertire	$\checkmark$		Co-op funding		$\checkmark$	St Barbara
Mulla	$\checkmark$				$\checkmark$	Burdekin
Cundumbul*	$\sqrt{}$		√ adjacent license	$\checkmark$	$\checkmark$	Mitsubishi Materials
Condobolin *				$\sqrt{}$	$\sqrt{}$	Ramelius Resources
Jemalong *	$\sqrt{\sqrt{\sqrt{1}}}$	<10km to Cowal &Marsden	Co-op funding	$\sqrt{}$	$\checkmark$	



\* Joint Venture with RareXLimited

#### **Trundle: Brownfield setting to Northparkes**

Western side of the Northparkes Igneous Complex Previously 2208 holes for 61,146m, only 11 >250m depth



KINCORA/RAREXJ V

FMG

RIMFIRE

#### TRUNDLE

Mordialloc drilling Ravenswood Sth drilling

Dunns drilling

Trundle Park drilling (Southern extension discovery zone) NORTHP ARKES

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E44 deposit (development)

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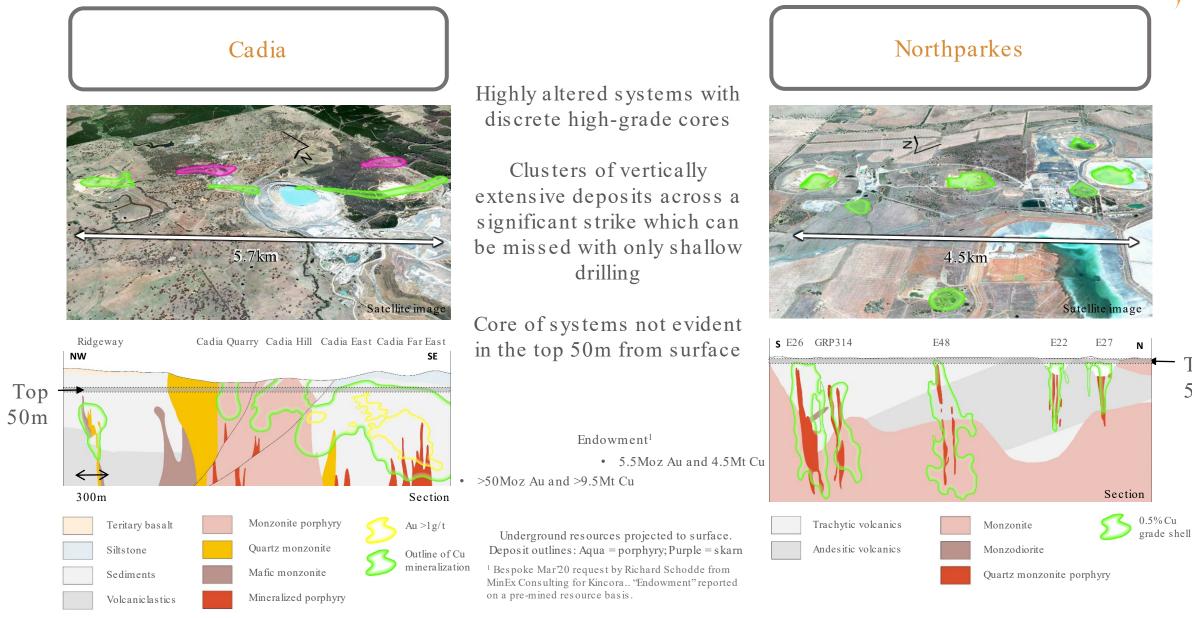
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Northparkes mining complex

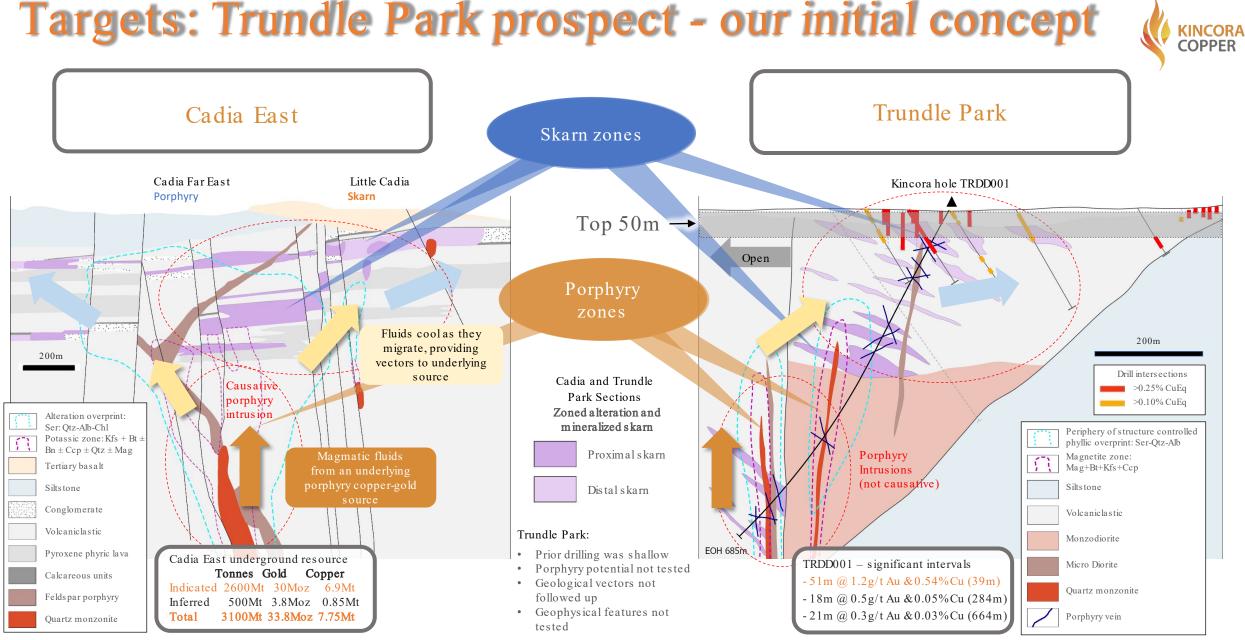
Kincora diamond drill hole
Kincora air-core drill hole (assays pending)
Rim fire diamond drill hole
FMG airborne coverage
>500pm Cu &/or >0.1g/t Au
Northparkes prospects (regional)
Northparkes prospects (mine)
Northparkes deposits project to surface
Northparkes mines project to surface
0
5
10km

## Big systems but need to drill to their discrete cores





Top 50m



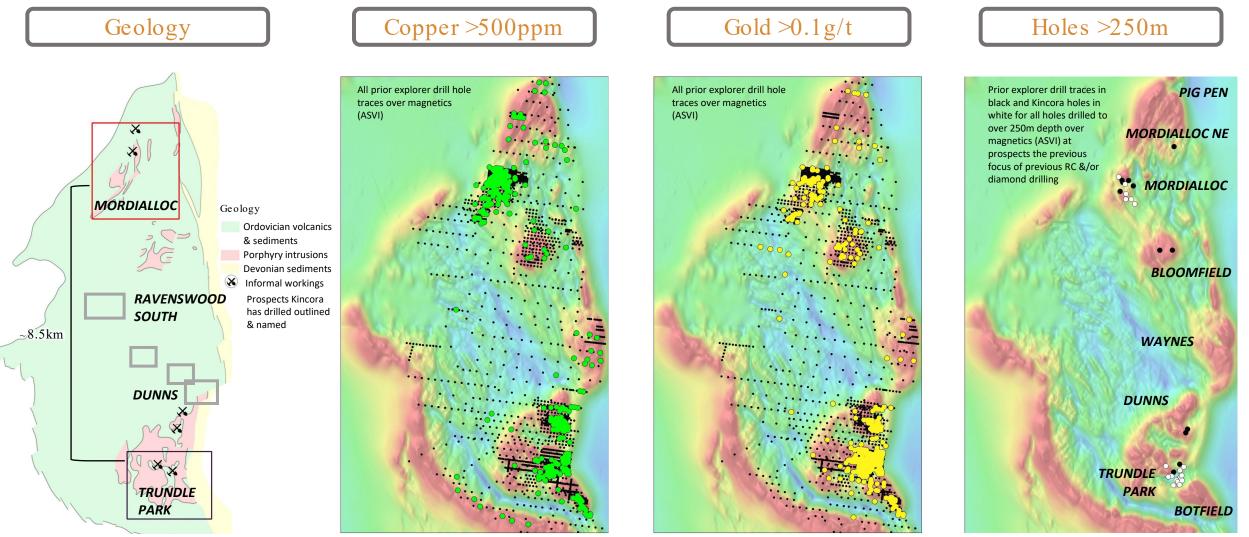
Skarn alteration and mineralization at Big and Little Cadia helped focus exploration at Cadia toward the largest porphyry system in Australia

### Trundle: Geology, Exploration & Discovery!



### Trundle: Prior shallow drilling defined a big footprint

Lack of deeper drilling that would have intersected the core of a Northparkes or Cadia system



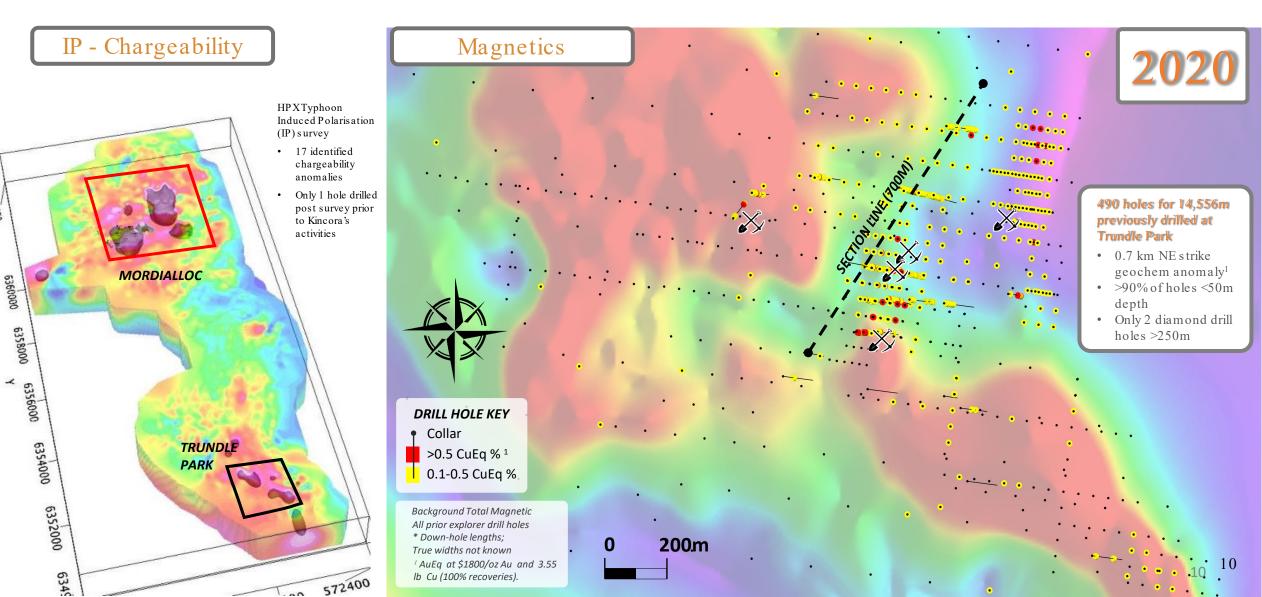
### Trundle Park: Shallow drilling defined 700m strike

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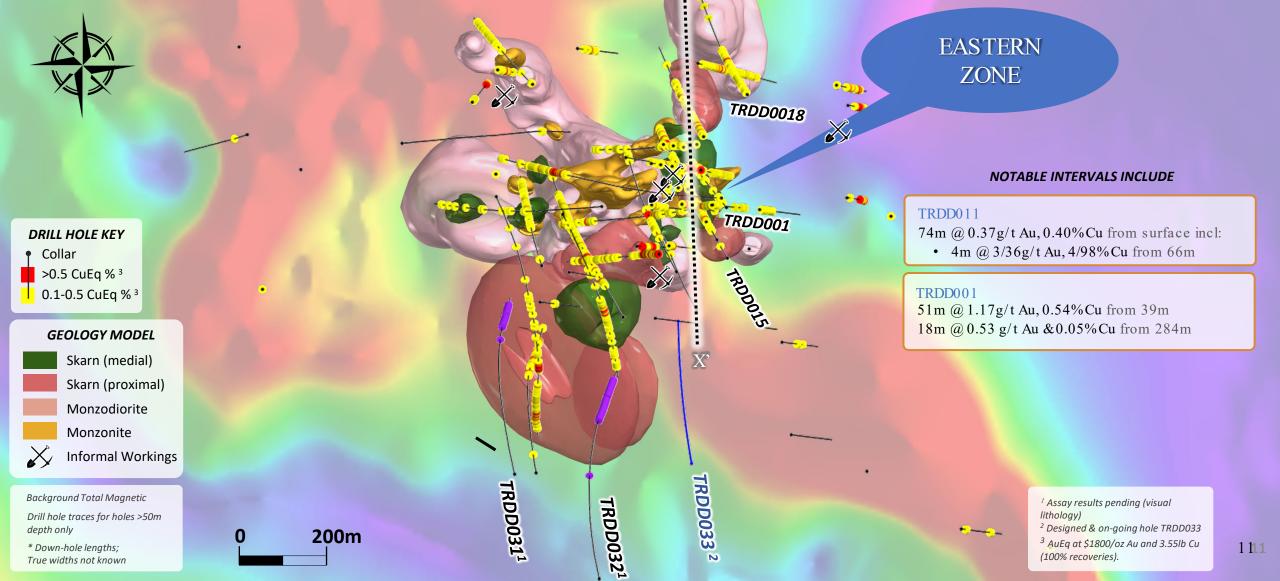
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Large magnetic complexes were previously untested, IP, geological and geochemical vectors remained open for followed up



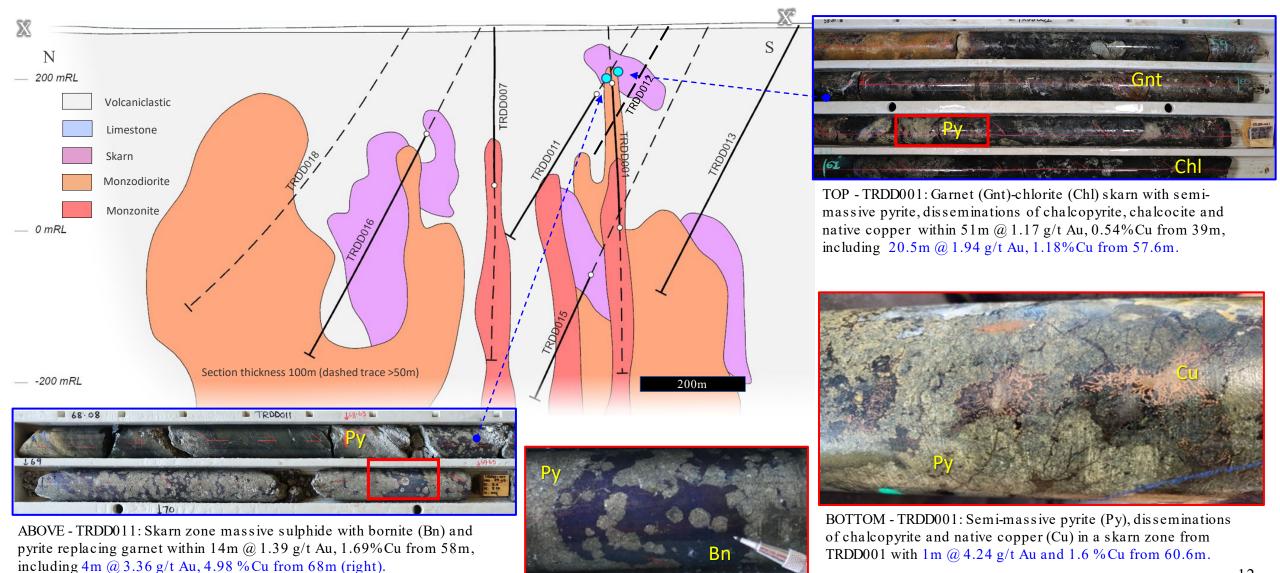
#### Trundle Park: Geological insights through deeper drilling



#### **Trundle Park: Eastern Zone**



Kincora TRDD001: near surface skarn zones in volcaniclastic rocks, then into monzodiorite + monzonite intrusions

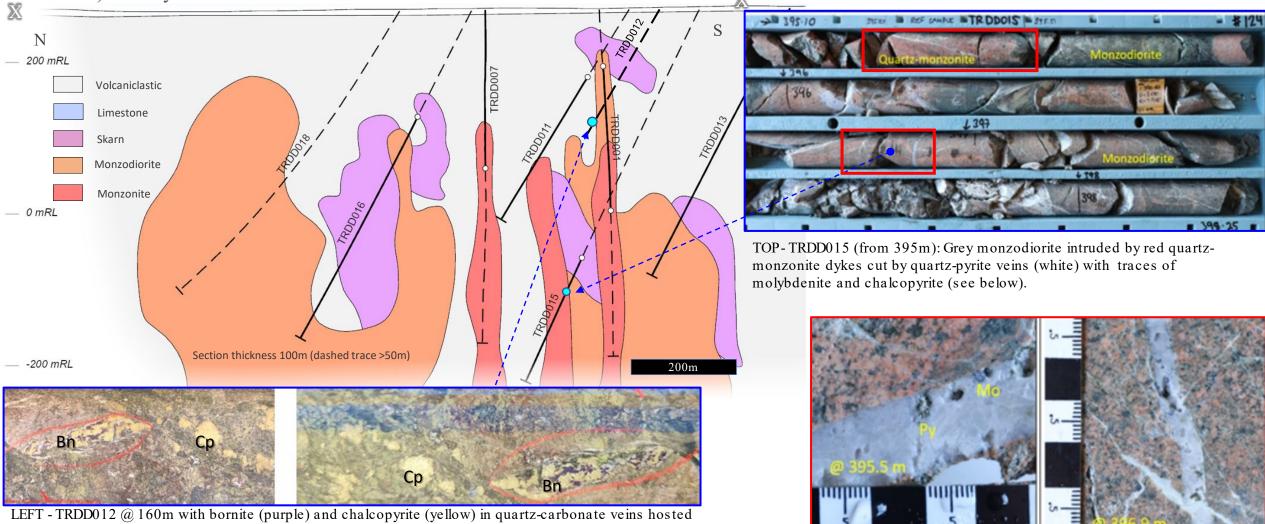


- photos of selected intervals are not representative of the mineralization hosted on the whole property. Refer to Kincora's website for further details on reported holes and technical information / disclaimers

### **Trundle Park: Eastern Zone**



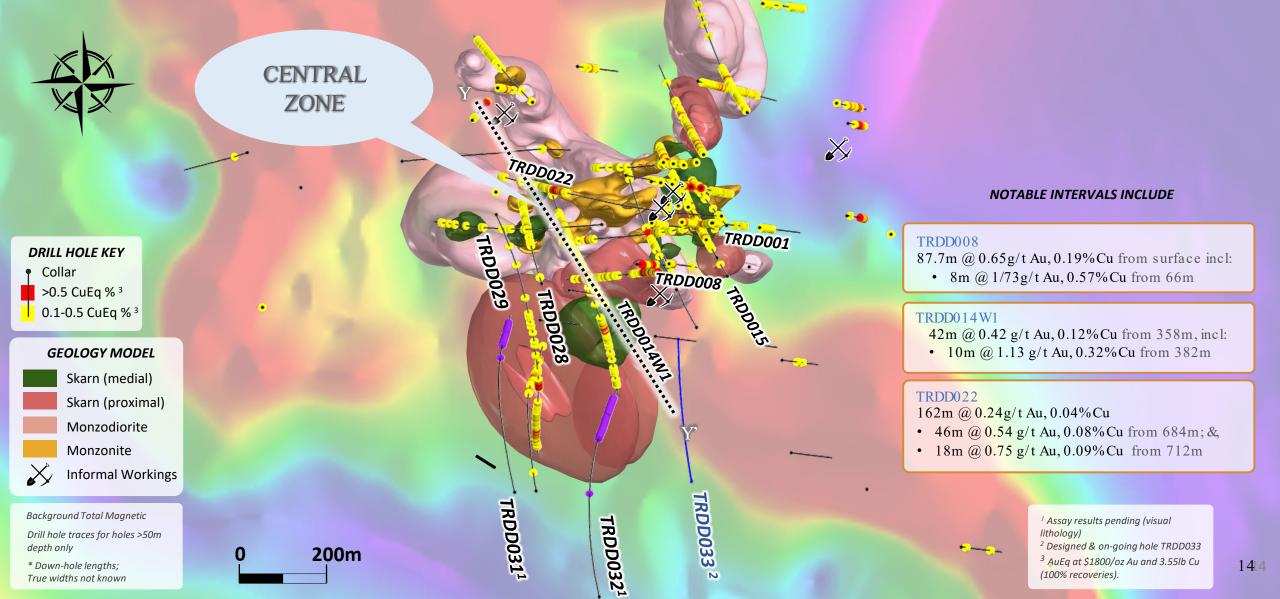
TRDD008-016: Multiple skarn zones in volcaniclastic rocks, with quartz-pyrite veins (+/- molybdenite, chalcopyrite, bornite) mainly in monzonite intrusions



by volcaniclastics. Right - TRDD012 @ 196.2m with bornite-chalcopyrite (yellow) in quartz-carbonate veins hoste volcaniclastics. Right - TRDD012 @ 196.2m with bornite-chalcopyrite-pyrite-quartz-carbonate in veinlets within 2m @ 0.87% Cu from 195m.

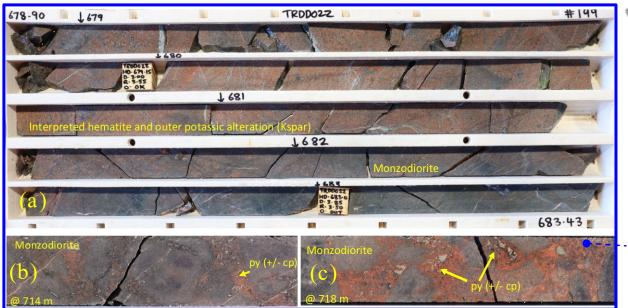
BOTTOM - TRDD015 @ 395.5 and 396.9m.

### Trundle Park: Geological insights through deeper drilling



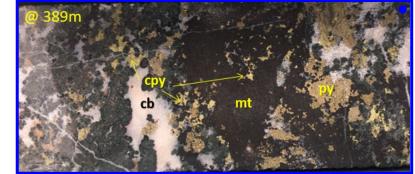
### **Trundle Park: Central Zone**

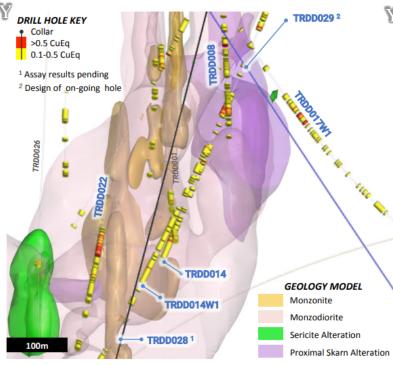
TRDD014W1 & TRDD022 intersected skarn development from surface to depth + broad intervals of gold associated with hematite-kfeldspar-pyrite altered zones in monzodiorite

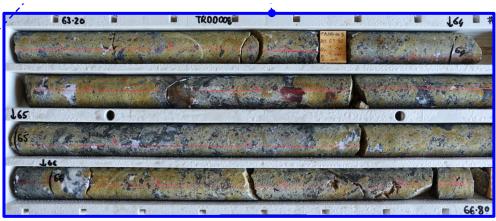


ABOVE- TRDD022 from the zone with 162m @ 0.25 g/t Au, 0.04% Cu from 670m, incl. 18m @ 0.75 g/t Au, 0.09% Cu from 712m: (a) Monzodiorite (light-grey) with strongly developed red alteration (hematite) along with magnetite veinlets (black) and quartz veins (white), from 679m. (b&c) Brecciated monzodiorite (light-grey) with pervasive Kfeldspar (red). Pyrite with chalcopyrite as matrix fill or along veins, from 714m (left) & 718m (right).

LEFT - TRDD014W1: Early garnet-magnetite skarn overprinted by retrograde skarn with carbonatequartz-hematite-pyritechalcopyrite, in volcaniclastic sandstone Interval: 10m @ 1.13 g/t Au, 0.32%Cu from 388m









#### SIGNIFICANT INTERVALS

- 162m @ 0.25 g/t Au, 0.04% Cu from 670m incl: • 46m @ 0.54 g/t Au, 0.08% Cu from 684m; &,
- 18m @ 0.75 g/t Au, 0.09% Cu from 712m

#### TRDD014W1

42m @ 0.42 g/t Au, 0.12% Cu from 358m, incl: • 10m @ 1.13 g/t Au, 0.32% Cu from 382m

48m @ 0.19 g/t Au, 0.03% Cu from 458m 122m @ 0.16g/t Au, 0.03% Cu from 596m 10m @ 0.21g/t Au, 0.06% Cu from 750m 16m @ 0.11g/t Au, 0.07% Cu from 860m

#### TRDD014

44m @ 0.20g/t Au, 0.14% Cu from 358m incl:
7m @ 0.64g/t Au, 0.53% Cu from 385m

19m @ 0.43g/t Au, 0.21% Cu from 388m incl: • 4m @ 0.94g/t Au, 0.57% Cu from 394m

22m @ 0.23g/t Au, 0.07% Cu from 482m incl:
1.3m @ 2.34g/t Au, 0.54% Cu from 486m

65.5m @ 0.25g/t Au, 0.04% Cu from 600m incl: • 10m @ 0.73g/t Au, 0.1% Cu from 626m

#### TRDD008

87.7m @ 0.65g/t Au, 0.19% Cu from surface incl: 8m @ 1.63g/t Au, 0.57% Cu from 66m 28m @ 0.33g/t Au, 0.15% Cu from 379m

> RIGHT - TRDD008: Garnet (green) & magnetite skarn overprinted by retrograde skarn with carbonate-quartzhematite-pyritechalcopyrite. Interval from 66m with 8m @ 1.63 g/t Au, 0.57%Cu 15

### Trundle Park: Geological insights through deeper drilling

TRDD033

N

R

**SOUTHERN** 

EXTENSION

ZONE

200m

)D029

TRDD0311

TRDD030

TRDD0321

TRDD028









Background Total Magnetic

Drill hole traces for holes >50m depth only

\* Down-hole lengths; True widths not known

#### NOTABLE INTERVALS INCLUDE

#### TRDDO29

 $\mathcal{X}$ 

UPPPER SKARN: 36m @ 0.68g/t Au, 0.29%Cu MIDDLE SKARN: 139m @ 0.17 g/t Au, 0.12%Cu 34m @ 0.38g/t Au, 0.30% Cu incl. LOWER SKARN: 13m @ 0.13 g/t Au, 0.07%Cu 8m @ 0.11 g/t Au, 0.01%Cu LOWER SKARN: 196m @ 0.26 g/t Au, 0.14%Cu

#### TRDDO30

**UPPPER SKARN:** 18m @ 0.15g/t Au, 0.06%Cu MIDDLE SKARN: 124m @ 0.17 g/t Au, 0.15%Cu incl. 29m @ 0.53g/t Au, 0.22%Cu LOWER SKARN: 22m @ 0.51 g/t Au, 0.09%Cu 164m @ 0.21 g/t Au, 0.14%Cu

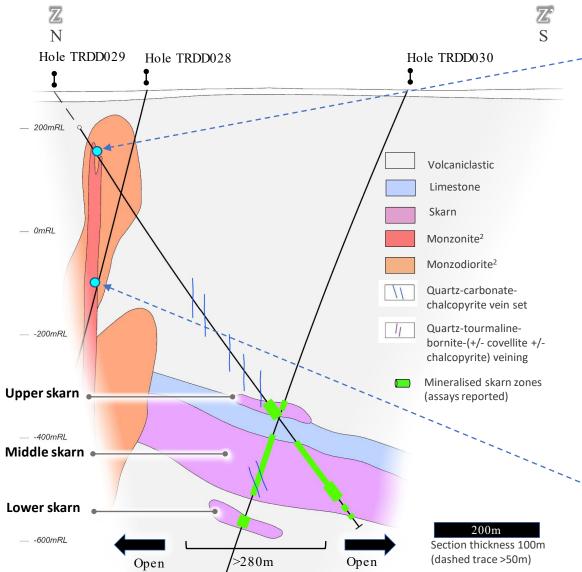
> <sup>1</sup> Assay results pending (visual lithology) <sup>2</sup> Designed & on-going hole TRDD033 <sup>3</sup> AuEq at \$1800/oz Au and 3.55lb Cu (100% recoveries).

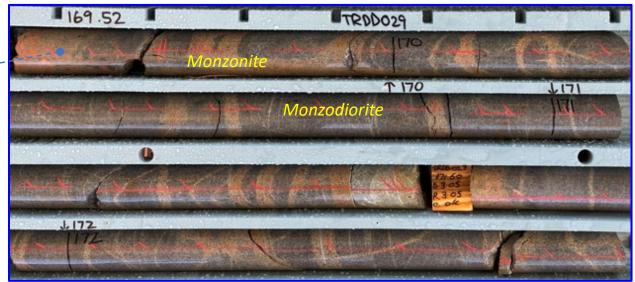
16.6



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Monzonite intruding monzodiorite (vein dykes near surface and varying to broader intrusions with depth)



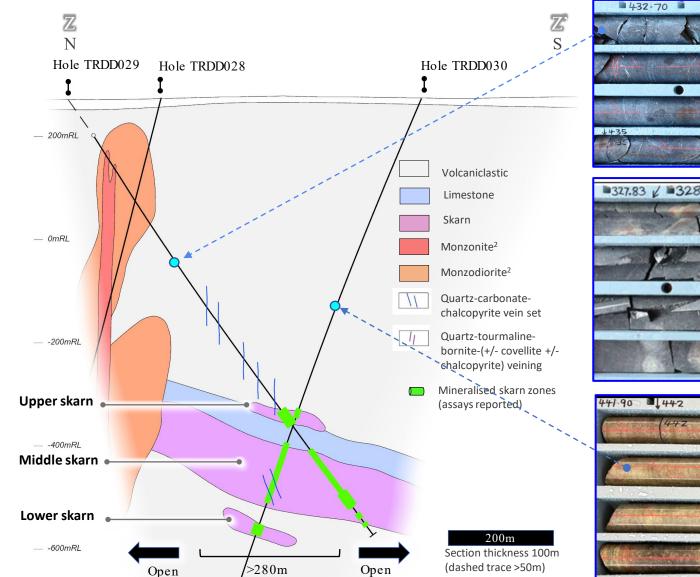


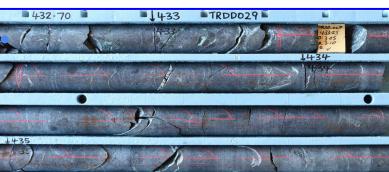
ABOVE: Monzodiorite (grey) cut by monzonite vein-dykes (orange-red): TRDD029 at 169m



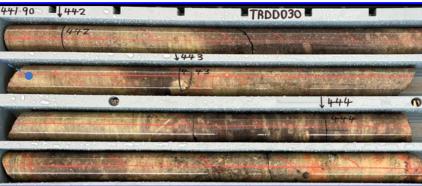
- photos of selected intervals are not representative of the mineralization hosted on the whole property. Refer to Kincora's website for further details on reported holes and technical information / disclaimers

Overlying volcaniclastic rocks with alteration increasing towards mineralised zones





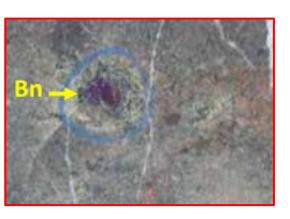






TOP: Volcaniclastic sandstone (grey) with silty bands and pebbles, TRDD029 @ 432m

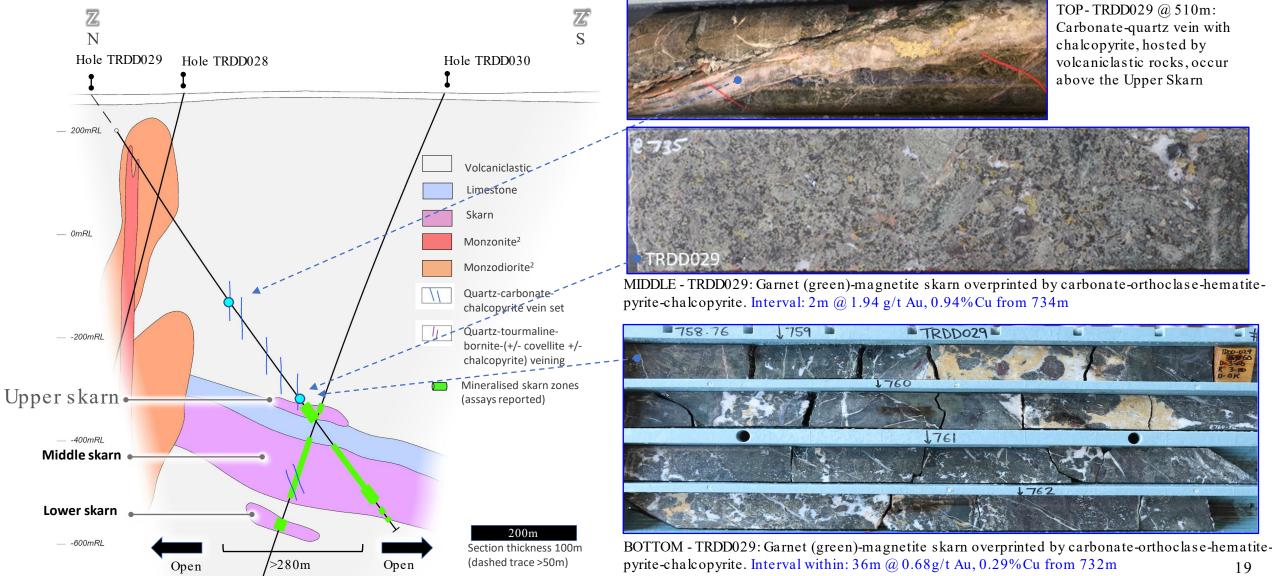
MIDDLE: Volcaniclastic sandstone with pebbles, cut by epidote-quartz-hematite in veins with traces of bornite: TRDD031 @ 330.6m



BOTTOM: Volcaniclastic sandstone with pebbles, overprinted by epidote (lime green) and hematite (orangered) and patchy magnetite (black): TRDD030 @ 442m

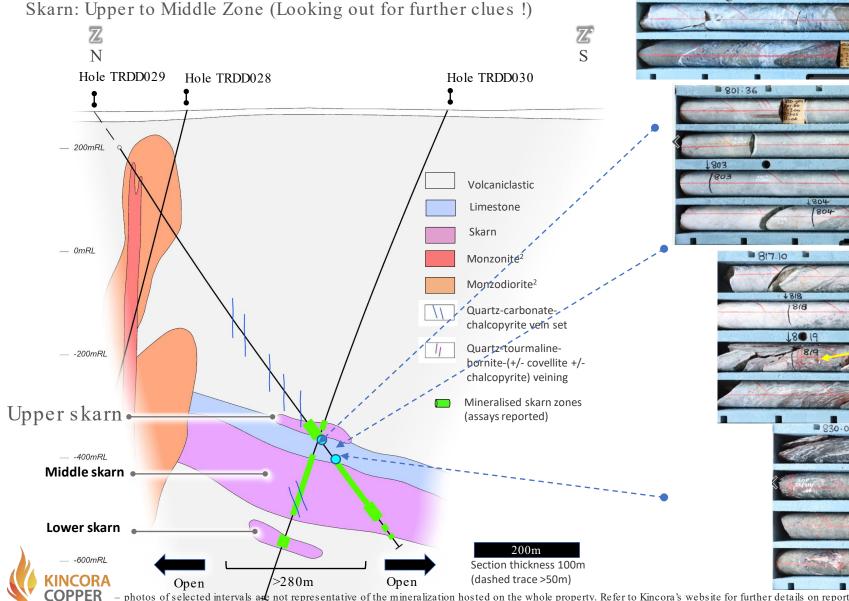
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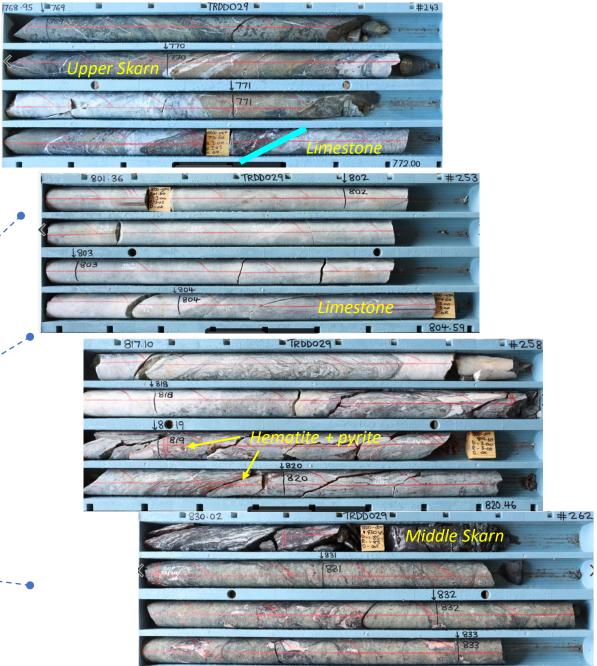
Skarn: Upper Zone (vein and disseminated type mineralisation)



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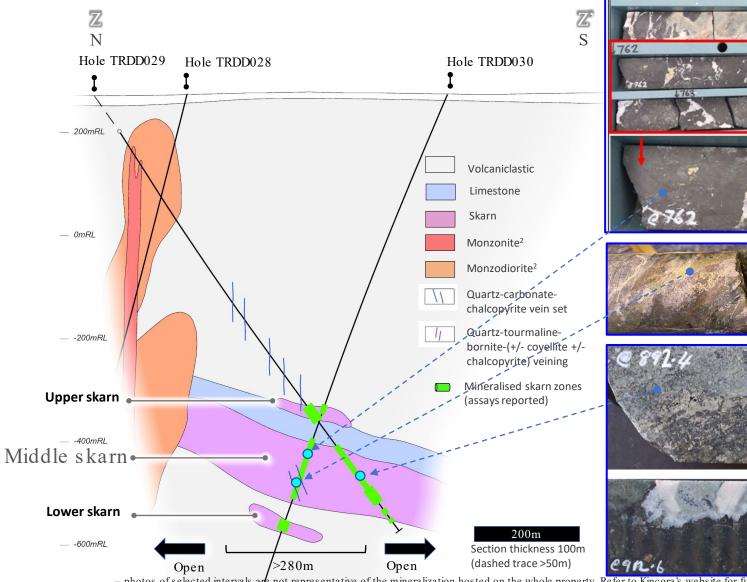


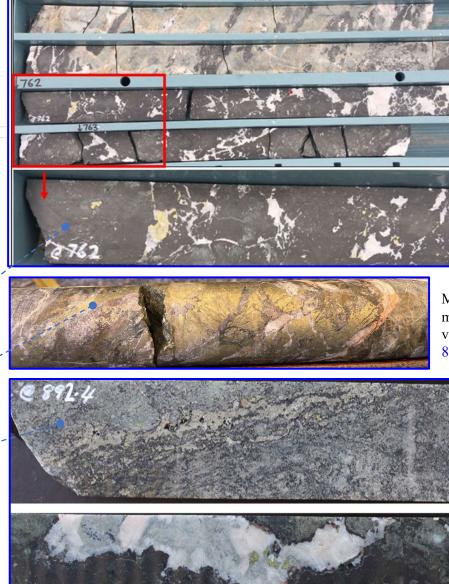


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833-10

Skarn: Middle Zone (banded & massive textures)





TRDD030

760.96



TOP - TRDD030: Banded garnet-pyroxene-magnetite skarn (upper) then into massive magnetite skarn with disseminated pyrite & chalcopyrite, overprinted by retrograde skarn with carbonate-quartzchalcopyrite as matrix fill and in veins (lower). Interval within: 29m @ 0.53 g/t Au, 0.22%Cu from 740m

1761

MIDDLE - TRDD030: semimassive chalcopyrite-carbonate vein within the Middle Skarn at 821m (3.6% copper)

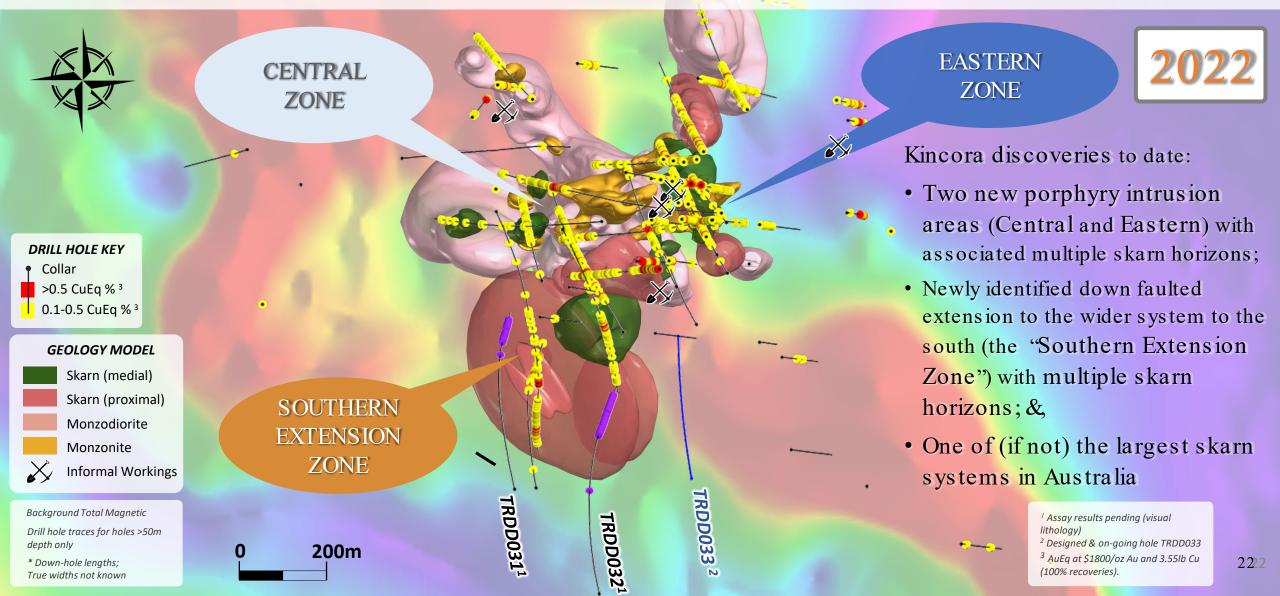
> BOTTOM - TRDD030 @ 892.4m: Banded garnetpyroxene-magnetite skarn with disseminated pyrite & chalcopyrite. Interval within 22m @ 0.51 g/t Au, 0.1% Cu from 886m

TRDD030 @ 912m: Massive magnetite skarn with disseminated pyrite & chalcopyrite, cut by later carbonate-quartzchalcopyrite in veins . 21

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## Trundle Park: Deeper drilling >1300m strike (open)

Prior drilling averaged <30m depth, Kincora has expanded mineralised footprint to approximately 800m depth (and open)



## **Observations & learnings: Trundle Park prospect**



Significantly improved geological understanding has both guided and justified deeper drilling, resulting in the <u>discovery of</u>:

- Two new porphyry intrusion Zones (Central and Eastern) and the Southern Extension Zone (in the last quarter)
- Mineralisation footprint expanded from 700m to >1300m in strike length (open) and from <30m to >800m depth (open)
- Copper-gold mineralisation and alteration hosted by volcaniclastic and limestone units and also intrusions along low magnetic response zones, trending from SW to NE within an interpreted structural zone, comprising:
  - Overlying volcaniclastic rocks adjacent to skarns with +/- Kfeldspar, hematite, epidote, quartz, pyrite and traces of chalcopyrite and bornite along veinlets or as blebs.
  - Prograde skarn replaces volcaniclastic units with banded and massive textured intervals with garnet, clinopyroxene, magnetite and disseminated pyrite and chalcopyrite
  - Retrograde skarn (overprints) with magnetite, hematite, orthoclase, epidote, quartz, carbonate, pyrite and chalcopyrite.
  - Breccia zones along the margins of monzodiorite contain gold with Kfeldspar, hematite, quartz, pyrite with gold
  - Quartz veins with traces of molybdenite and chalcopyrite cut both monzonite and quartz-monzonite porphyry intrusions
- Propylitic alteration (epidote) is widely distributed (not useful as a visual vector towards copper-gold)
- Higher temperature alteration minerals: Kfeldspar and prograde garnet skarn helping to vector towards copper-gold
- Geological review (internal/ external), 3D modelling (structural/ geological architecture) and drilling of Trundle area ongoing
- The skarn mineralisation is significant, BUT our primary target is a high-grade copper-gold porphyry system!



Contact Sam Spring President & CEO

sam.spring@kincoracopper.com Melbourne=+61431 329 345

ASX/TSXV: KCC

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in Kincora Copper Limited

www.kincoracopper.com

THANKS