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STAVELY MINERALS

ASX Code: SVY

Finding the energy metals the world needs for a low-carbon future

High-Impact Exploration in Emerging Copper and Nickel Provinces

IMARC 1 November 2023

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A Modern Australian Energy Metals Growth Company

What does Stavely Minerals offer that is different?

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BIG targets

BIG Targets

Hawkstone Magmatic Ni-Cu-Co Project[1]

- Adjacent to IGO / Buxton Merlin / Double Magic discovery – ave. 8% Ni tenor, new Dogleg discovery – emerging magmatic nickel province
  - *Eg. Nova & Bollinger, Voisey's Bay*

Stavely Project - Thursday's Gossan Prospect

- High-Grade Cayley Lode Cu-Au-Ag discovery
  - ***9.3Mt at 1.23% Cu, 0.23g/t Au and 7.1g/t Ag[2]***
- Belief there is a large porphyry at depth eg.:
  - *Far Southeast, Resolution*

Stavely Project - S41 Au-Ag Prospect

- Recent discovery of ~2km long x 750m wide hydrothermal breccia
- Carbonate – base metal – gold system eg.:
  - *Kidston, Mt Leyshon, Kelian*

[1] see ASX announcement 23 May 2023
[2] See ASX announcement 14 June 2022, Appendix 1

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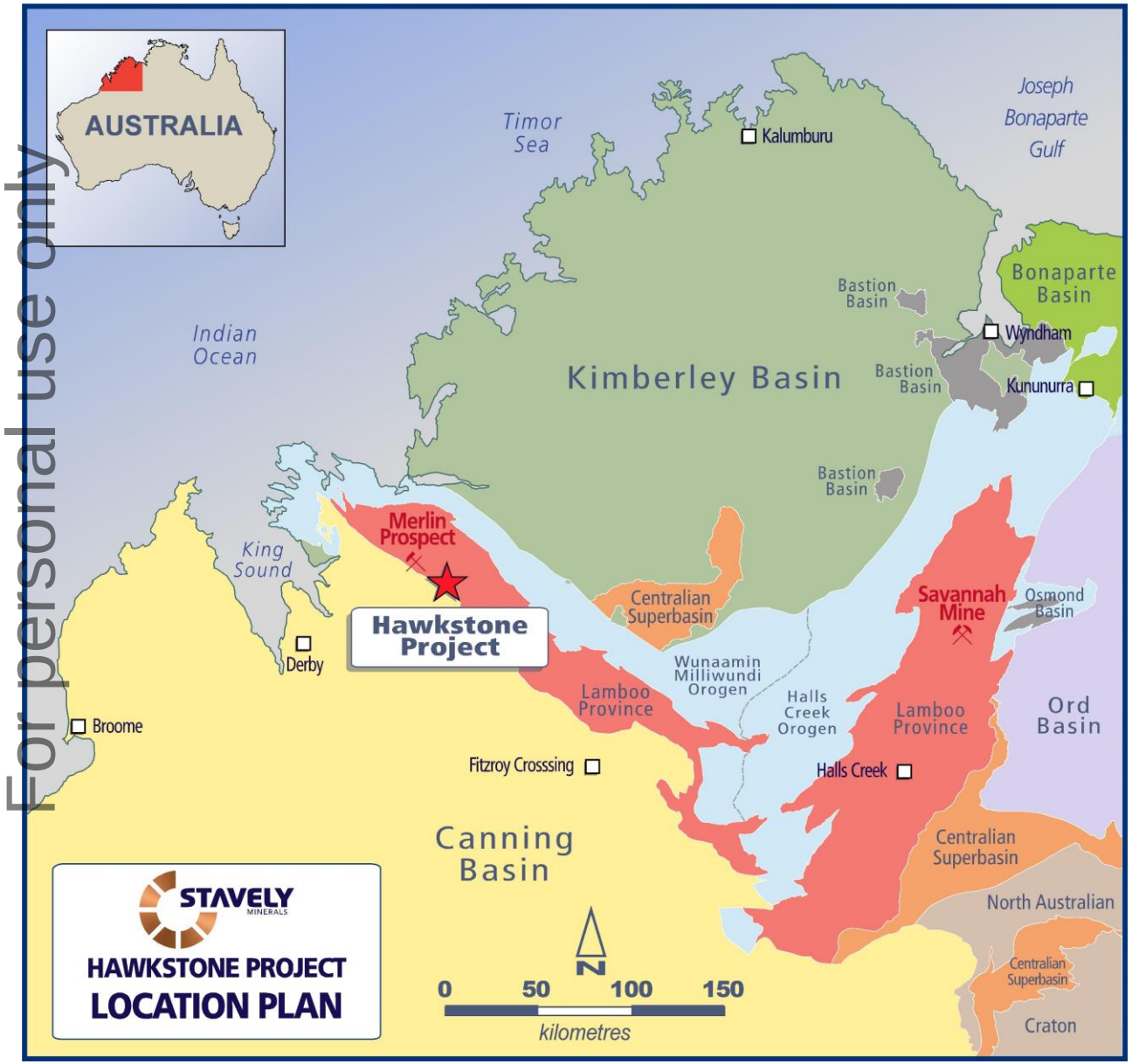
Hawkstone Ni-Cu-Co Project – An Emerging Nickel-Copper-Cobalt Province

Hawkstone Ni-Cu-Co Project



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Hawkstone Ni-Cu-Co Project

- ~850km2
- ~30km of the prospective Ruins Dolerite
- Buxton / IGO JV discovery 1km from tenement boundary
  - High tenor ave. 8%Ni (=~24g/t Au[1])
- Complimentary field season (winter) to the Stavely Project (summer)
- Potential for Li pegmatites as there are historic Sn-W-Ta mines

[1] AuEq = nickel grade (%) x ((AUD nickel price/ 0.000453592) / 100) / (AUD gold price / 31.10347)

See ASX announcement 23/05/2023 and available from www.stavely.com.au

Hawkstone Ni-Cu-Co Project

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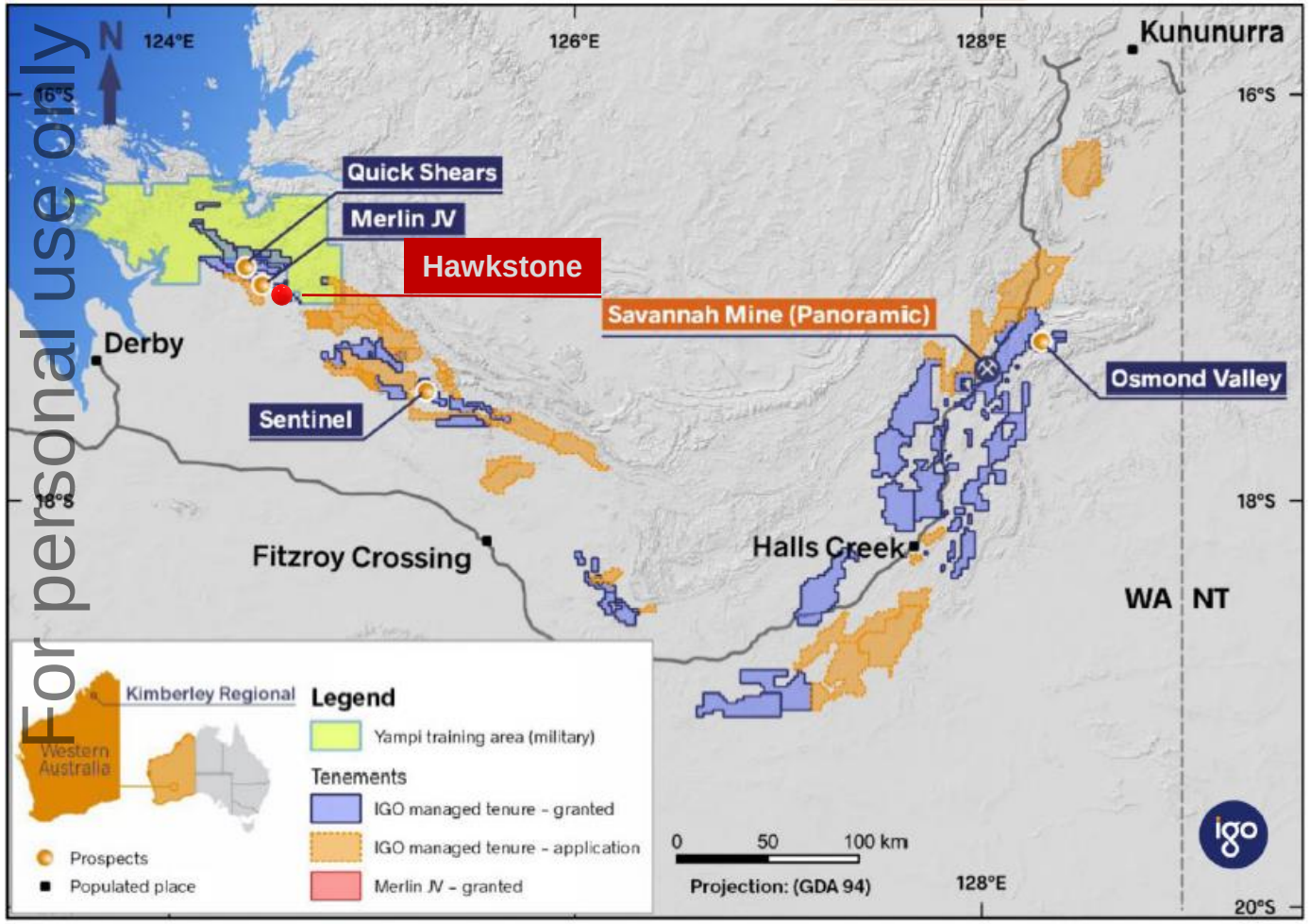

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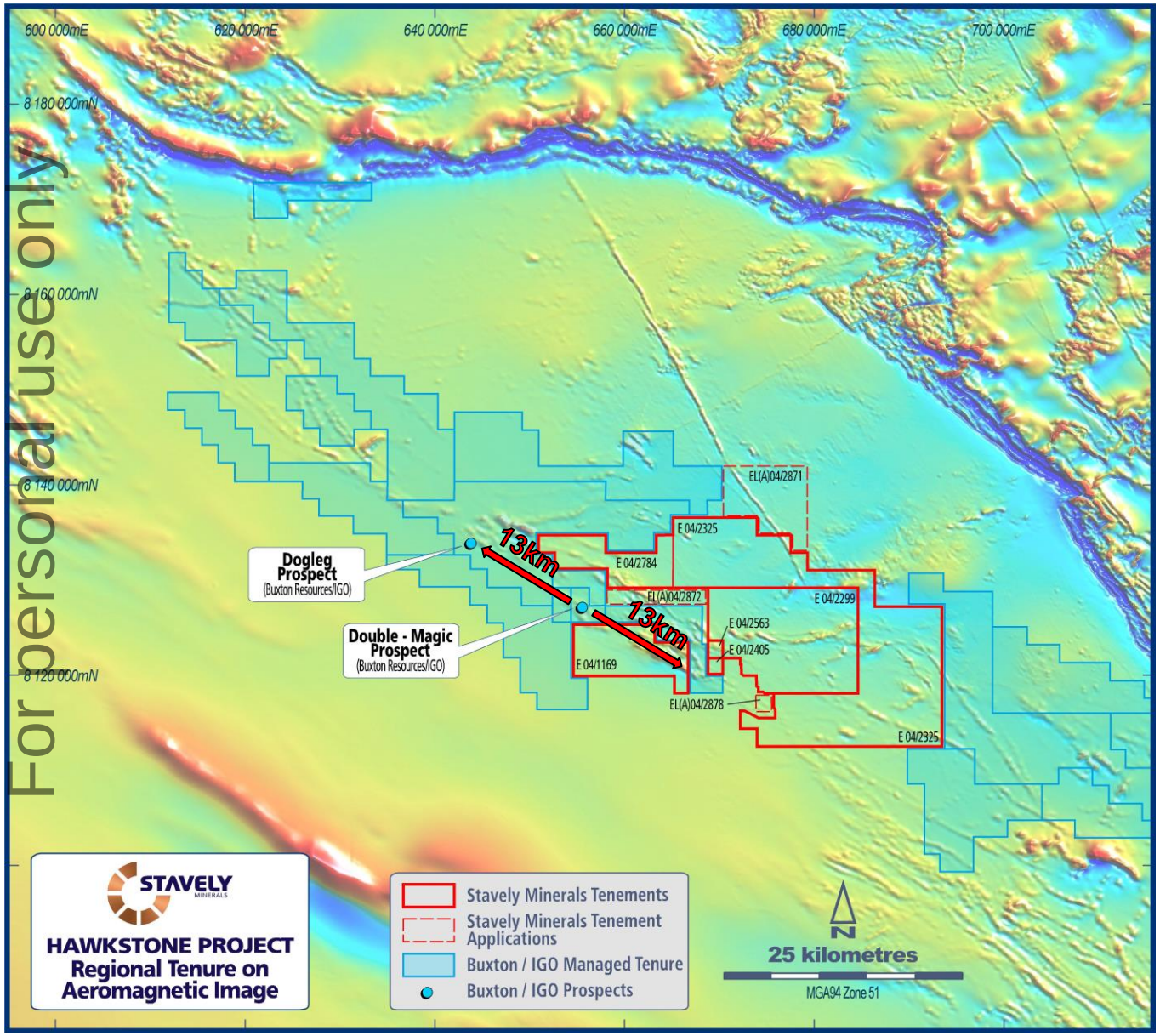
- **NEW** Dogleg nickel discovery (Quick Shears) 13km NW of Merlin / Double Magic[1]:

  23WKDD003 - 14.7m of mineralization, incl.
  - 6.57m of massive sulphide

  23WKDD004 – 2.85m of semi-massive sulphide
- Emerging Ni-sulphide province
- **IGO is a major holder – regional play**

[1]See ASX:BUX announcement 04/10/2023 and 19/10/2023

Hawkstone Ni-Cu-Co Project



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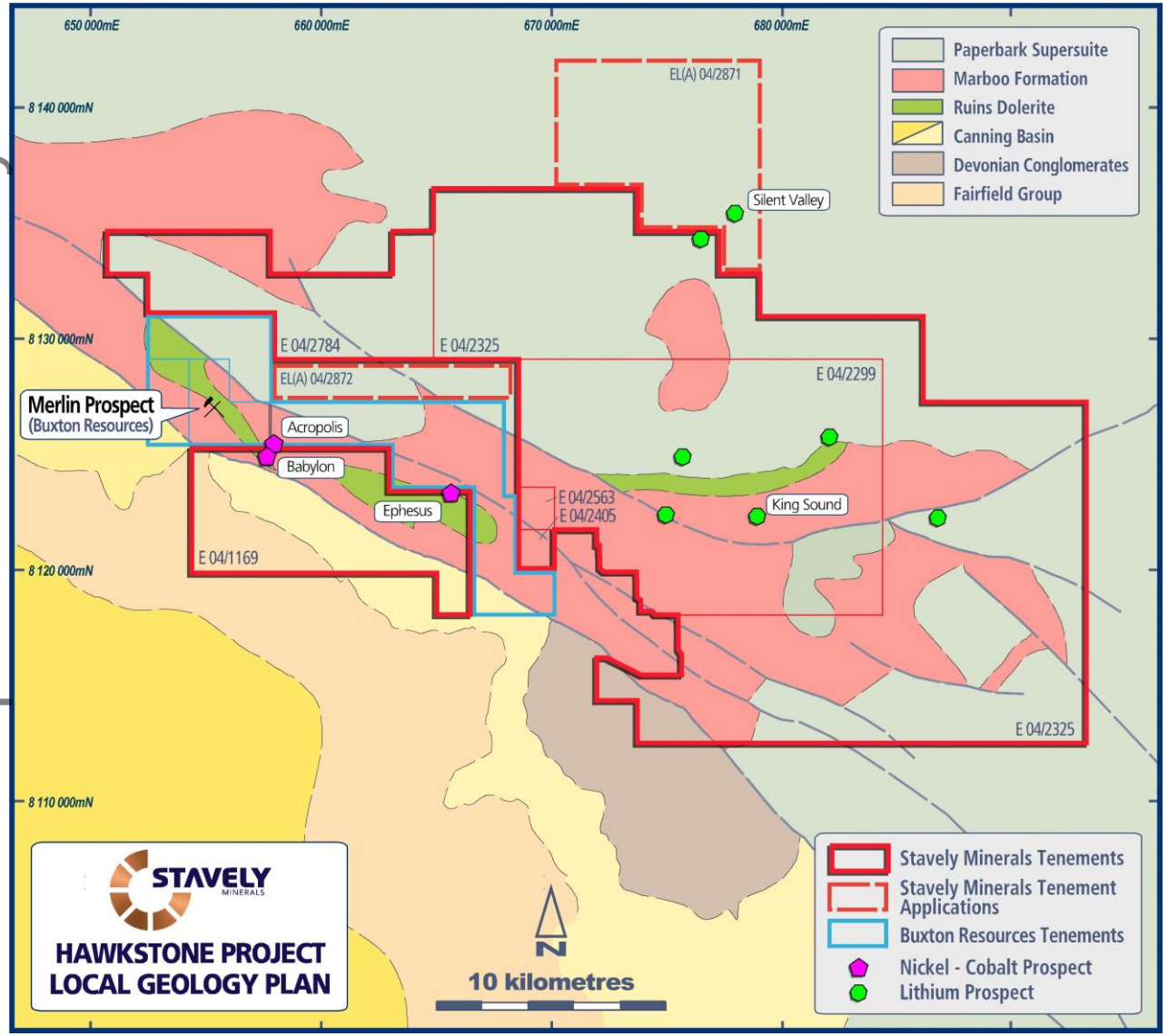

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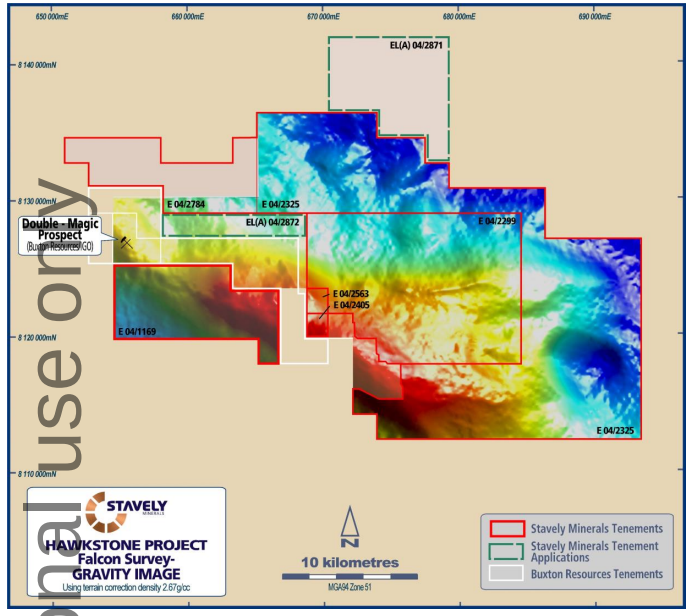
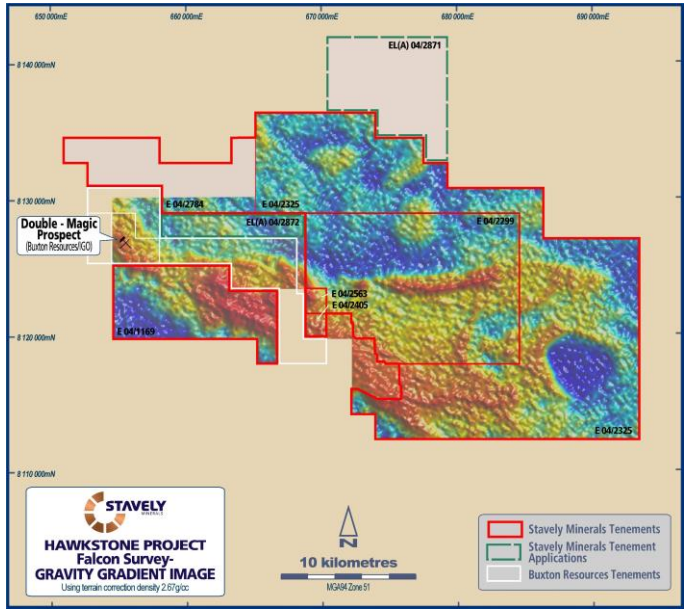
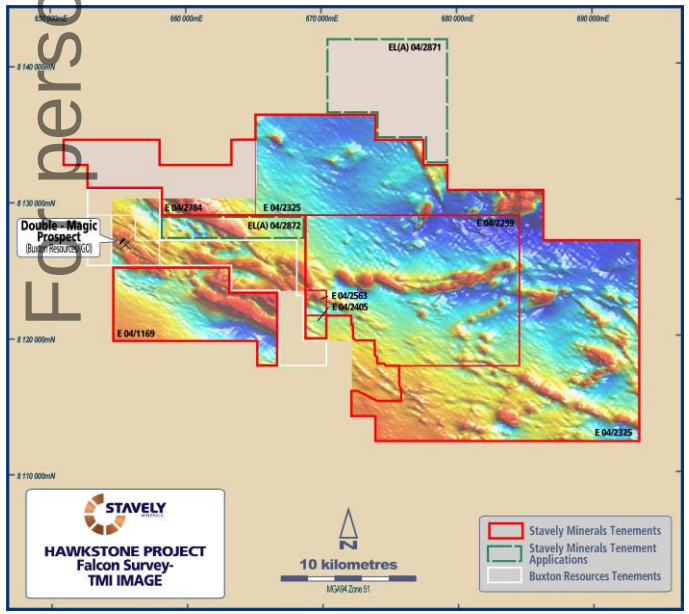
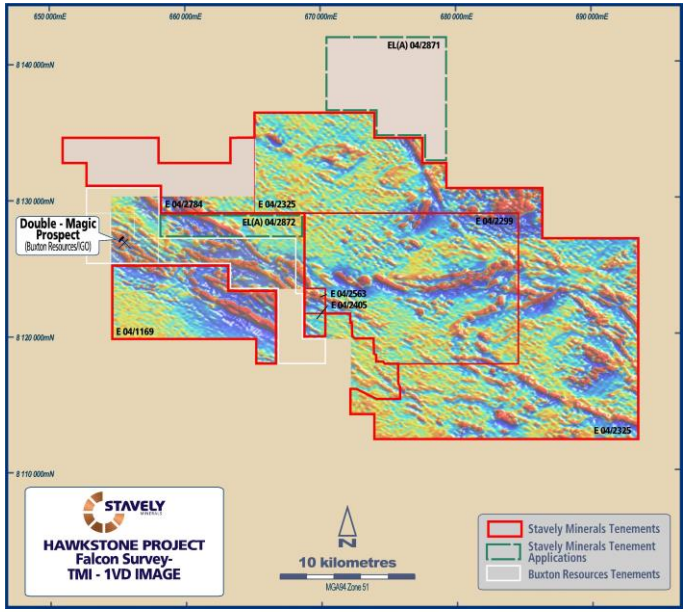
Hawkstone Ni-Cu-Co Project









Hawkstone Ni-Cu-Co Project

- ~850km2
- ~30km of the prospective Ruins Dolerite
- Recently acquired Falcon Gravity Gradiometer / magnetic survey
- Setting up for exploration success
- Buxton / IGO JV Merlin / Double Magic discovery 1km from tenement boundary
  - High tenor ave. 8%Ni

See ASX announcement 05/10/2023 and available from www.stavely.com.au

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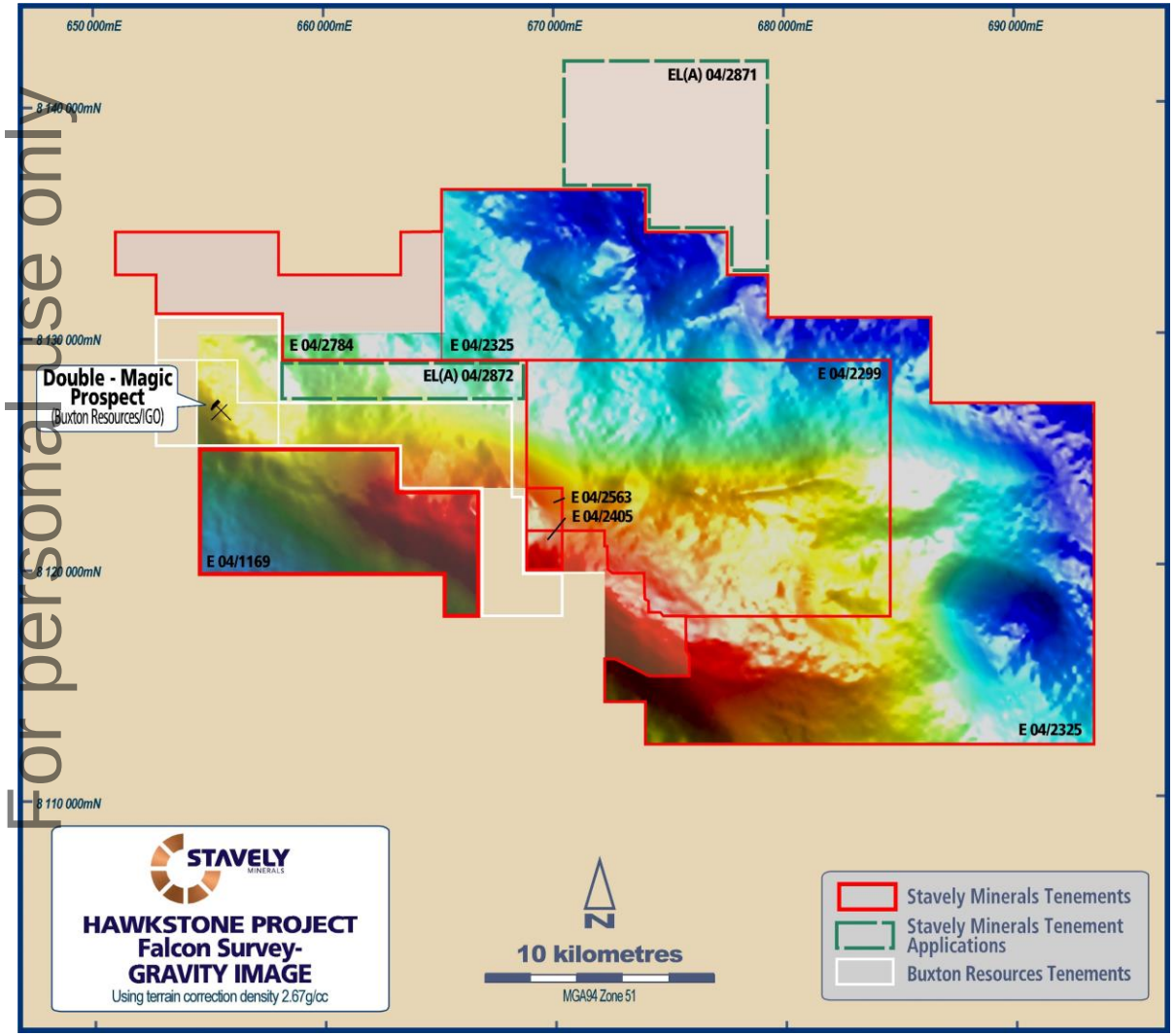
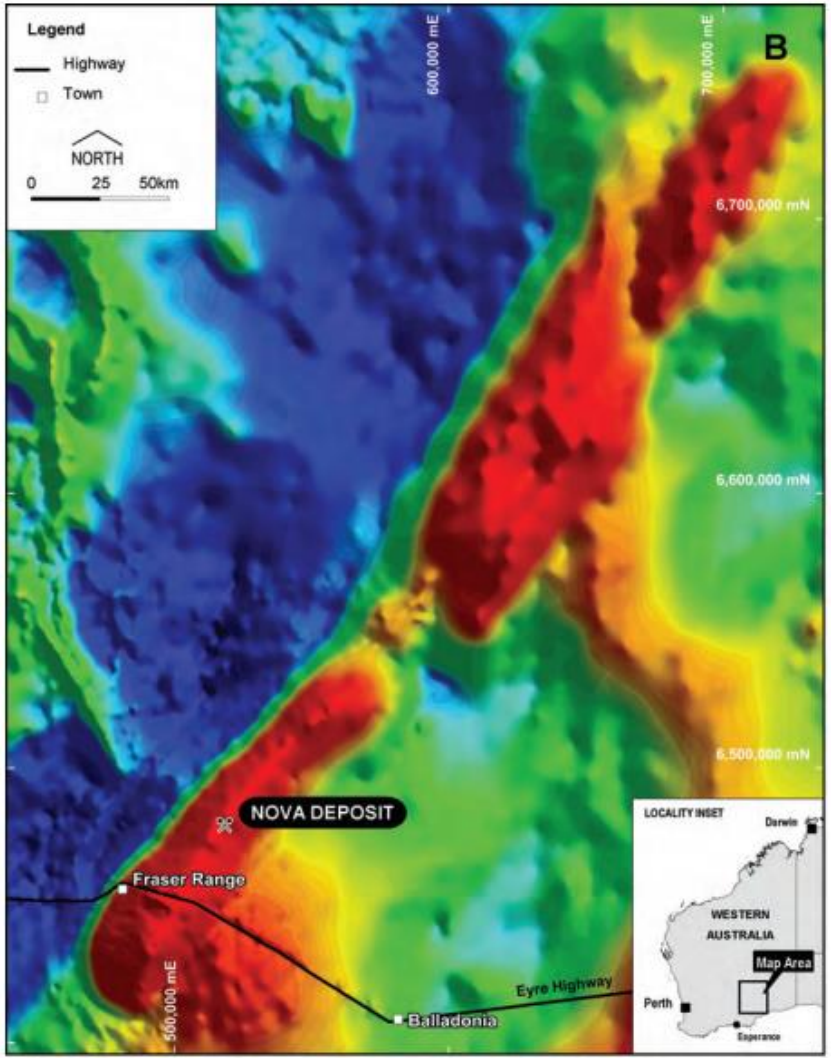
Hawkstone Ni-Cu-Co Project

Hawkstone Gravity



Nova Gravity



Nova discovery intercept:

- 4m at 3.8% Ni and 1.42% Cu[1]

[1]Bennett, M., et. al,., 2014, Motive, Means, and Opportunity: Key Factors in the Discovery of the Nova-Bollinger Magmatic Nickel-Copper Sulfide Deposits in Western Australia, SEG Special Publication 18, pp301-320.

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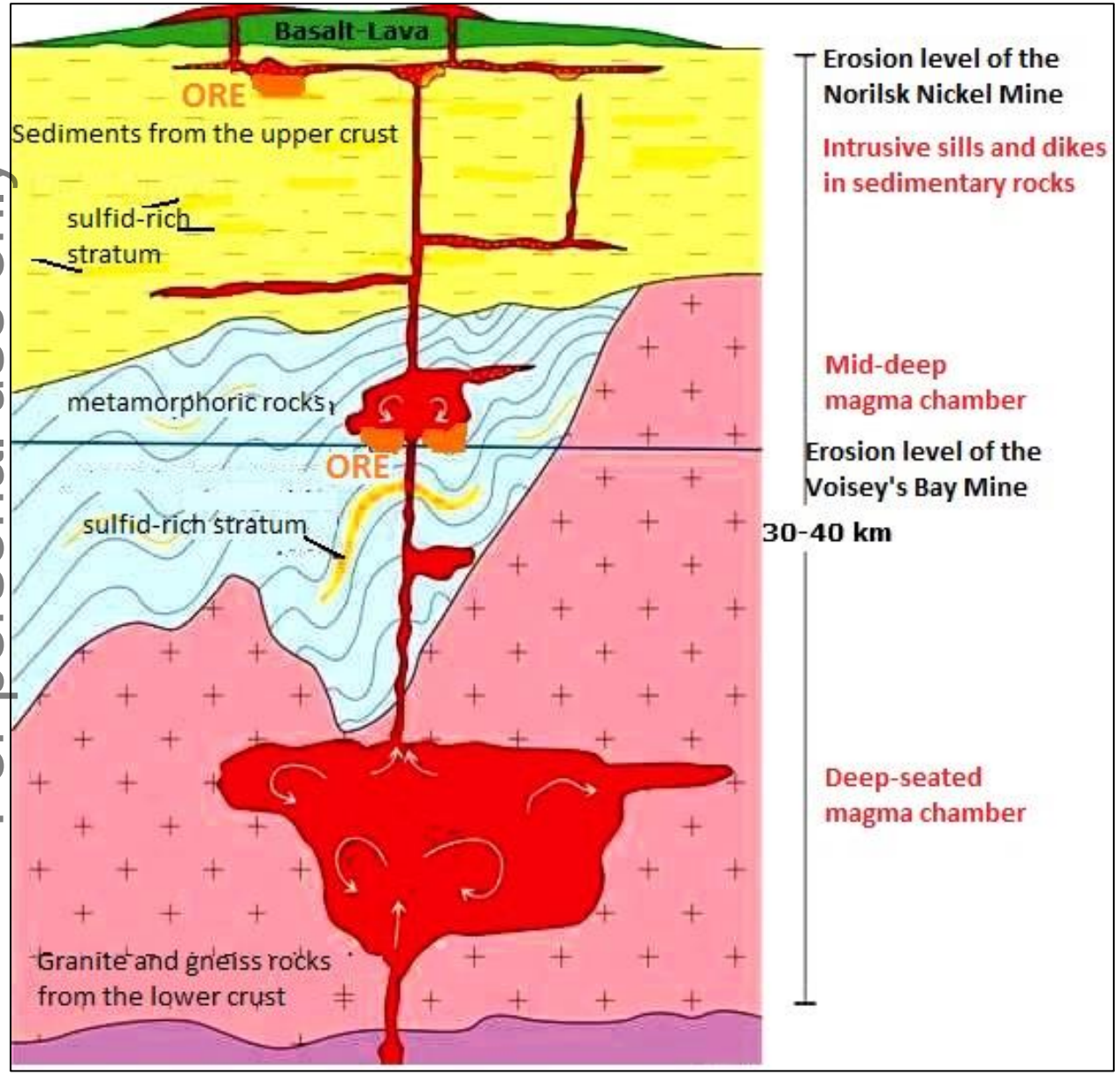
Hawkstone Ni-Cu-Co Project – Voisey's Bay Analogy



Hawkstone Ni-Cu-Co Project

- ~850km2
- ~30km of the prospective Ruins Dolerite
- Buxton / IGO JV Merlin / Double Magic discovery 1km from tenement boundary
  - High tenor ave. 8%Ni
- Magmatic nickel deposits form by ascending magma acquiring sulphur from country rocks and those sulphides sequester Ni, Cu and PGE from melt.
- Sulphides precipitate in low-velocity 'traps'

See ASX announcement 23/05/2023 and available from www.stavely.com.au

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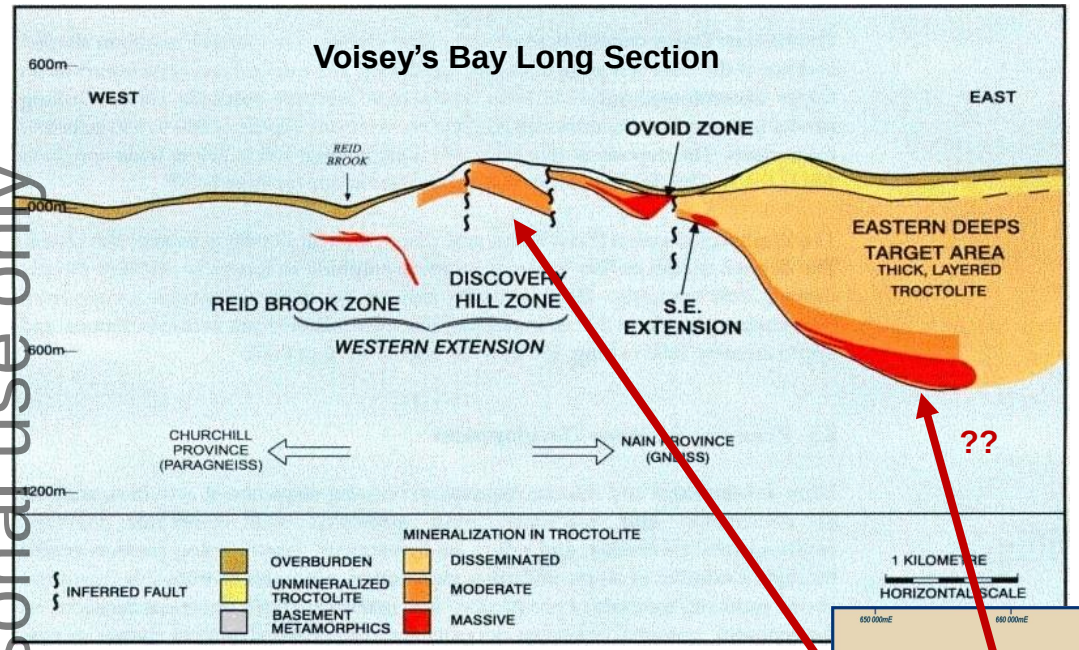
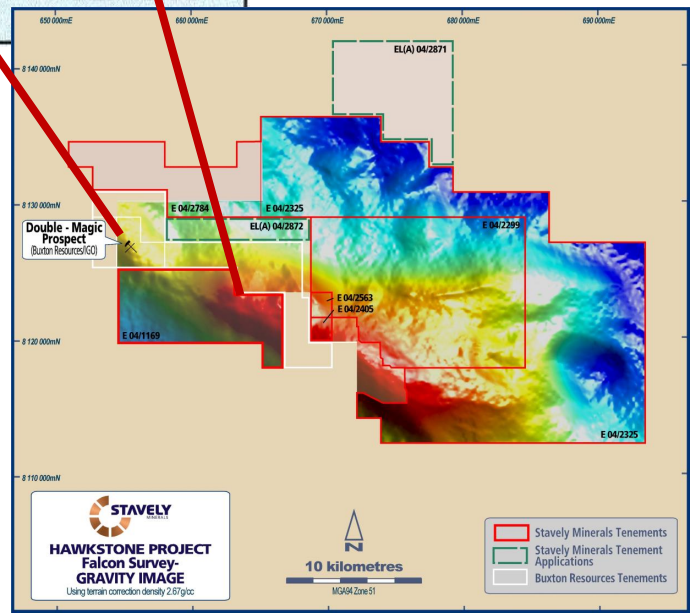
Hawkstone Ni-Cu-Co Project – Voisey's Bay Analogy





Hawkstone Ni-Cu-Co Project

- ~600km2
- ~30km of the prospective Ruins Dolerite
- Buxton / IGO JV Merlin discovery 1km from tenement boundary
  - High tenor ave. 8%Ni
- If the Merlin discovery equates to the Discovery Hill Zone at Voisey's Bay…
- Then does the apparent mafic magma chamber at depth in Hawkstone represent an Eastern Deeps target?

See ASX announcement 5 October 2023 and available from www.stavely.com.au

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Stavely Project

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Stavely Project

- **First-mover position** – largest and most strategic tenement holding in the Stavely Volcanic Belt, western Victoria
- **Discovery**– outstanding shallow high-grade copper-gold-silver discovery (September 2019), the Cayley Lode
- **Cayley Lode MRE[1] – 9.3Mt at 1.23% Cu, 0.23g/t Au and 7.1g/t Ag**
- **Total Resources – 28.3Mt at 0.75% Cu, 0.11g/t Au and 3.5g/t Ag**
- **Containing – 210,000t Cu, 100,000oz Au, 3.2Moz Ag and 2.4kt Zn**
- **New style of mineralisation** – Magma/Butte copper lode-style system, never before seen in Australia
- **Multiple regional discovery opportunities** – recently discovered S41 breccia-hosted Au-Ag system, Junction 1 prospect, Toora Road, S2 and S3 porphyry targets[2]

[1] reported in compliance with the JORC Code 2012, see ASX announcement 14 June 2022, see Appendix 1 for classifications

[2] see ASX announcement 3 October 2023

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Cayley Lode Mineral Resource Estimate

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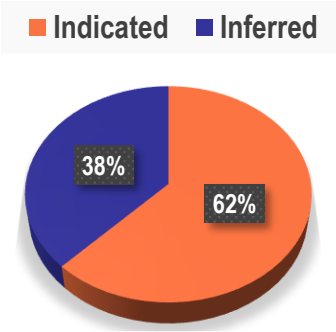
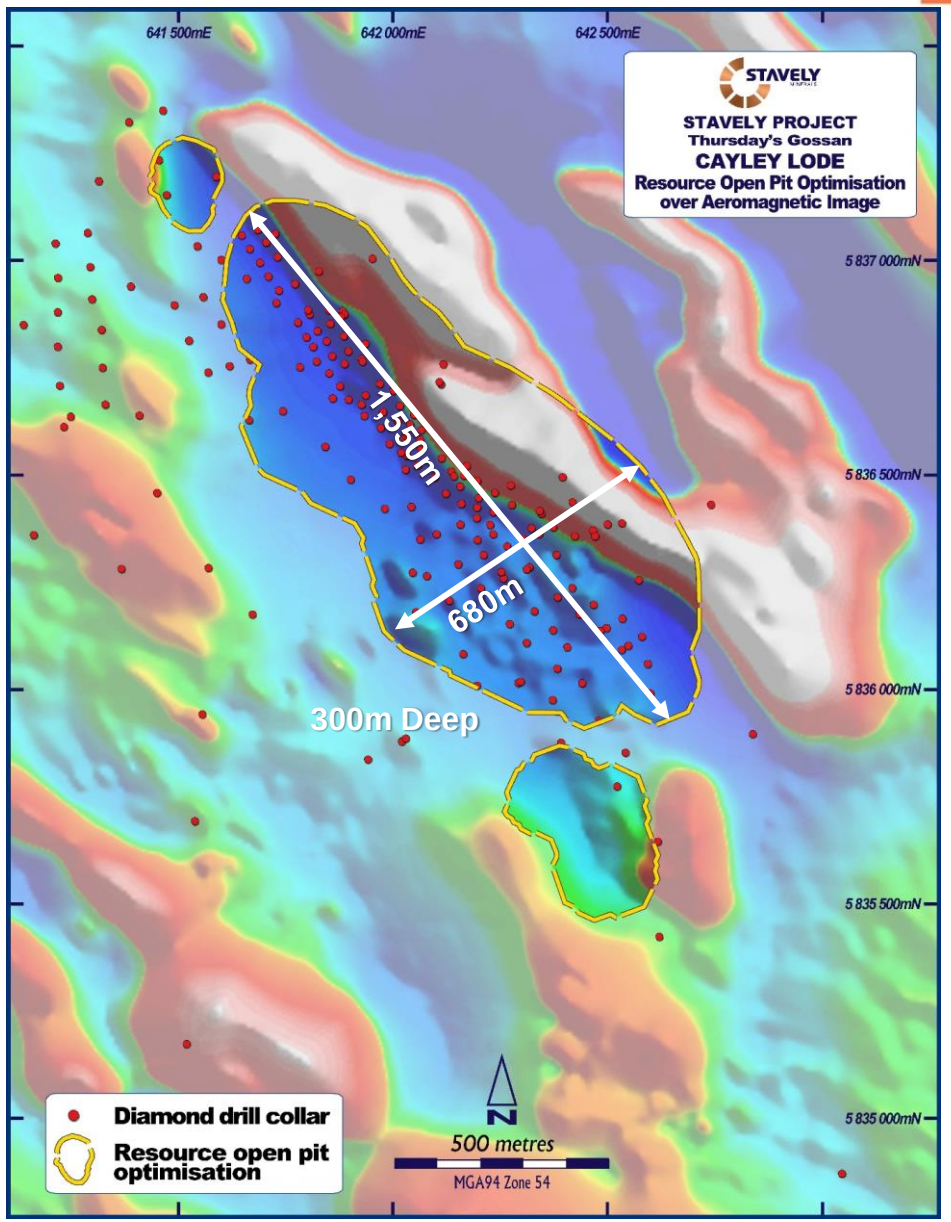
- Magma / Butte copper lode-style system – outstanding exploration target never before seen in Australia
- **9.3Mt at 1.23% Cu, 0.23g/t Au and 7.1g/t Ag[1]**



- Open Pit Mineral Resources within open pit shell optimised at US$6/lb
  - *1,550m long, 680m wide and 300m deep*
- Mineralisation remains open down-plunge and down-dip



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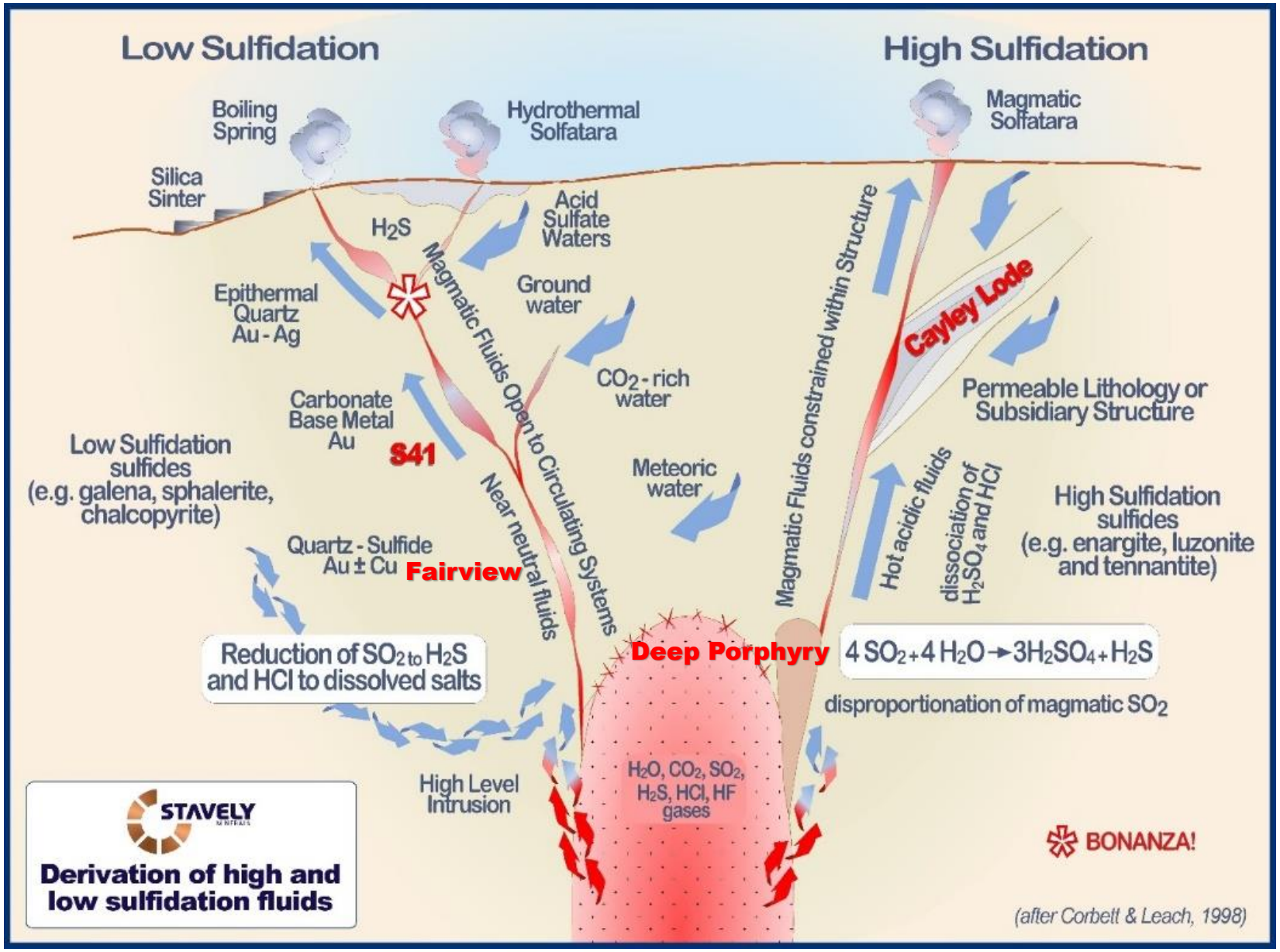
Stavely Regional Exploration

Regional Exploration – Massive Opportunity for Discovery

- Full range of discovery opportunities associated with the ancient Stavely Volcanic Arc

5-7km



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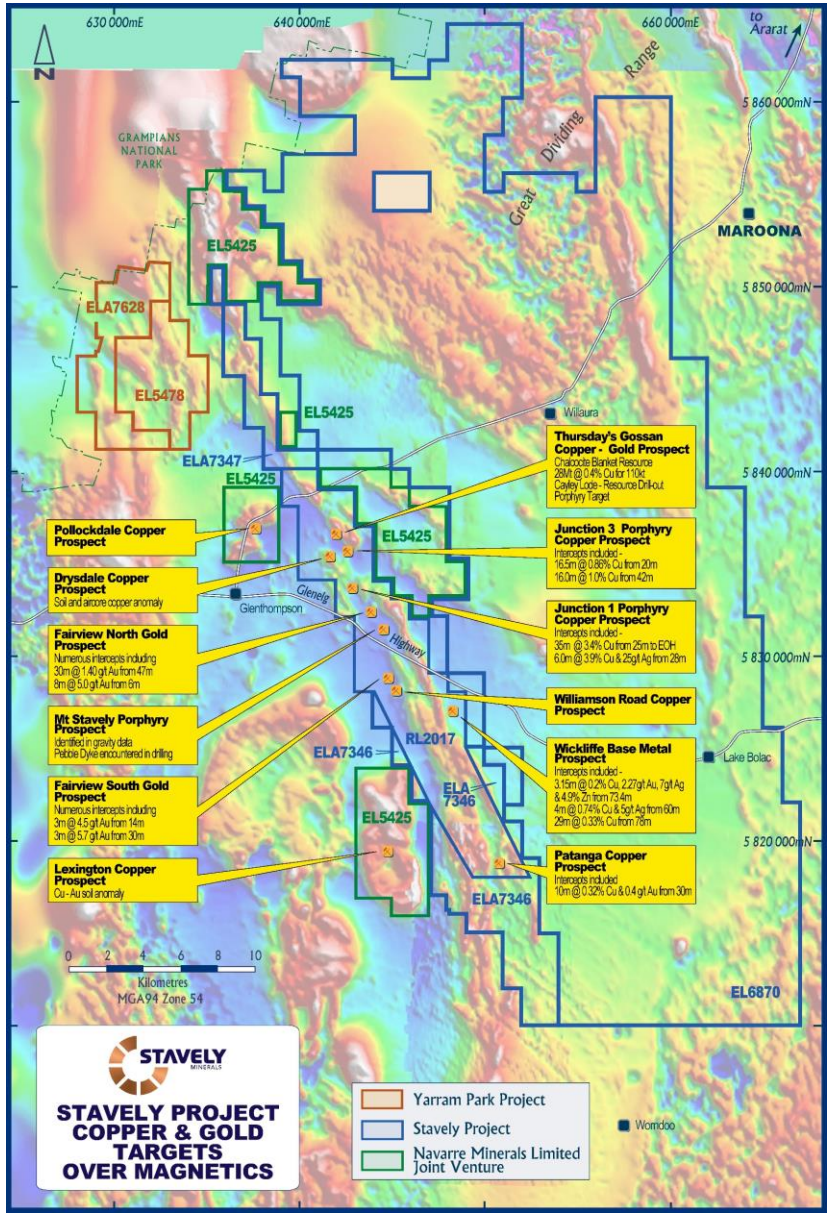
Regional Exploration – Massive Opportunity for Discovery

- Despite previous exploration by industry 'top dogs' Newcrest, Rio Tinto, CRA Exploration and North Limited, Stavely Minerals has a 'first mover' advantage
- +1,000km^2 of tenure covering ~115km of porphyry-prospective volcanic arc segments
- Known prospects occur largely within a ~20km window of sub-crop – this is what the majors focused on
- The other ~95km strike of prospective arc rocks are covered by younger cover or younger basalt – this is Stavely's first mover advantage



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Ground Gravity – Thursday's Gossan Alteration / Gravity Low

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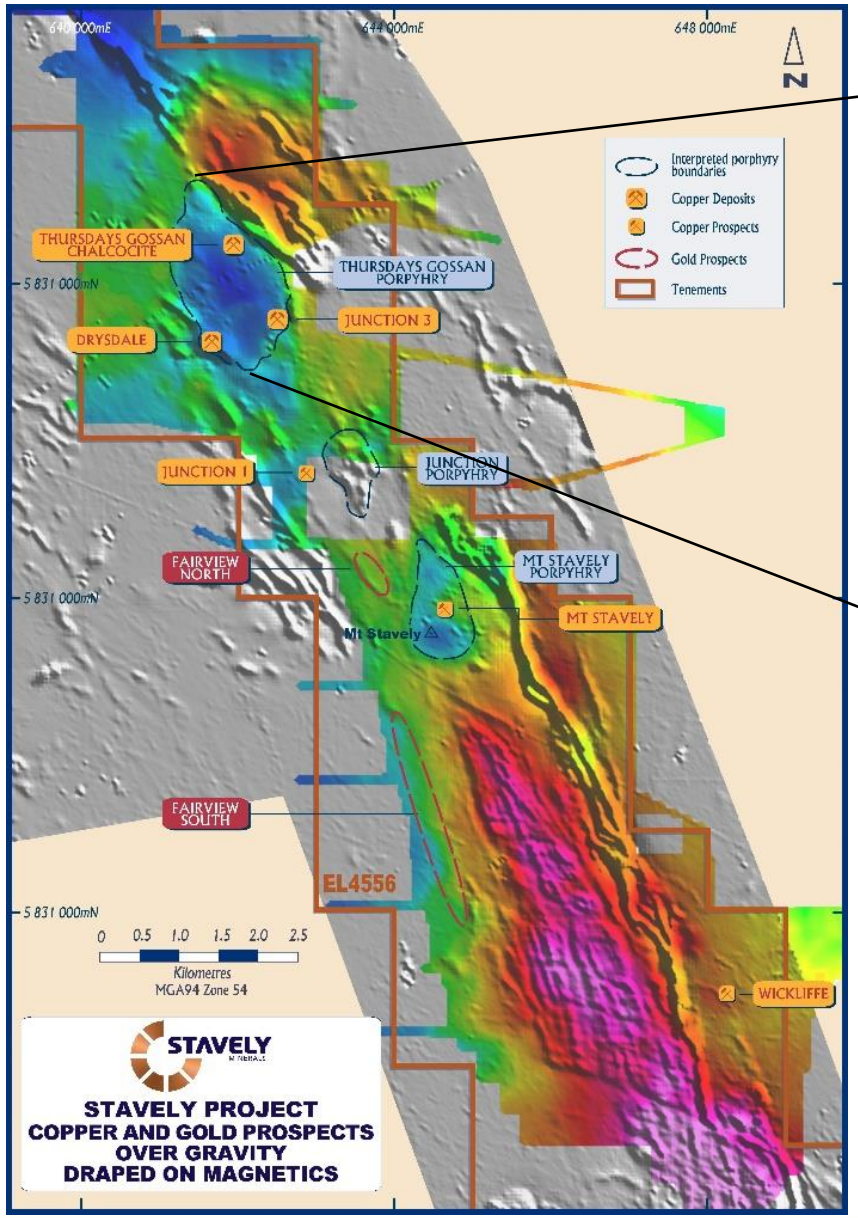

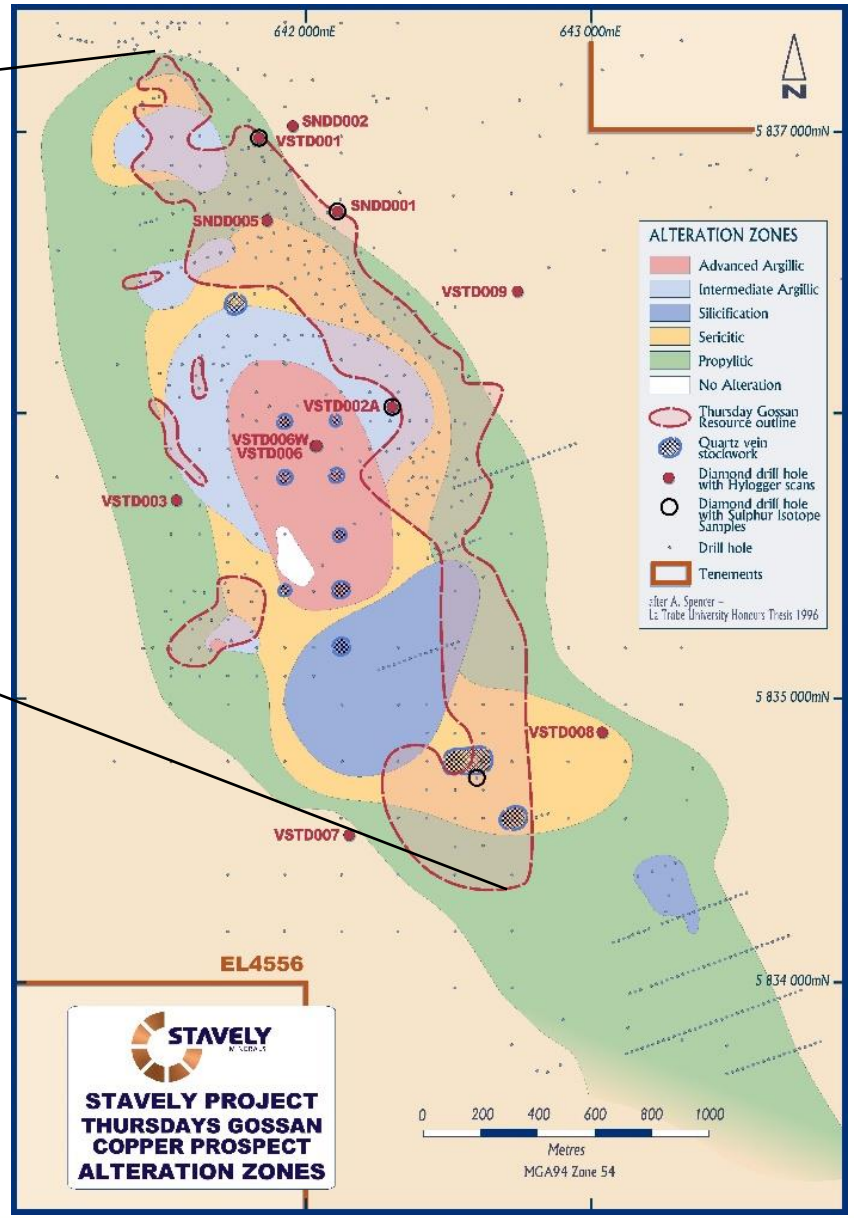

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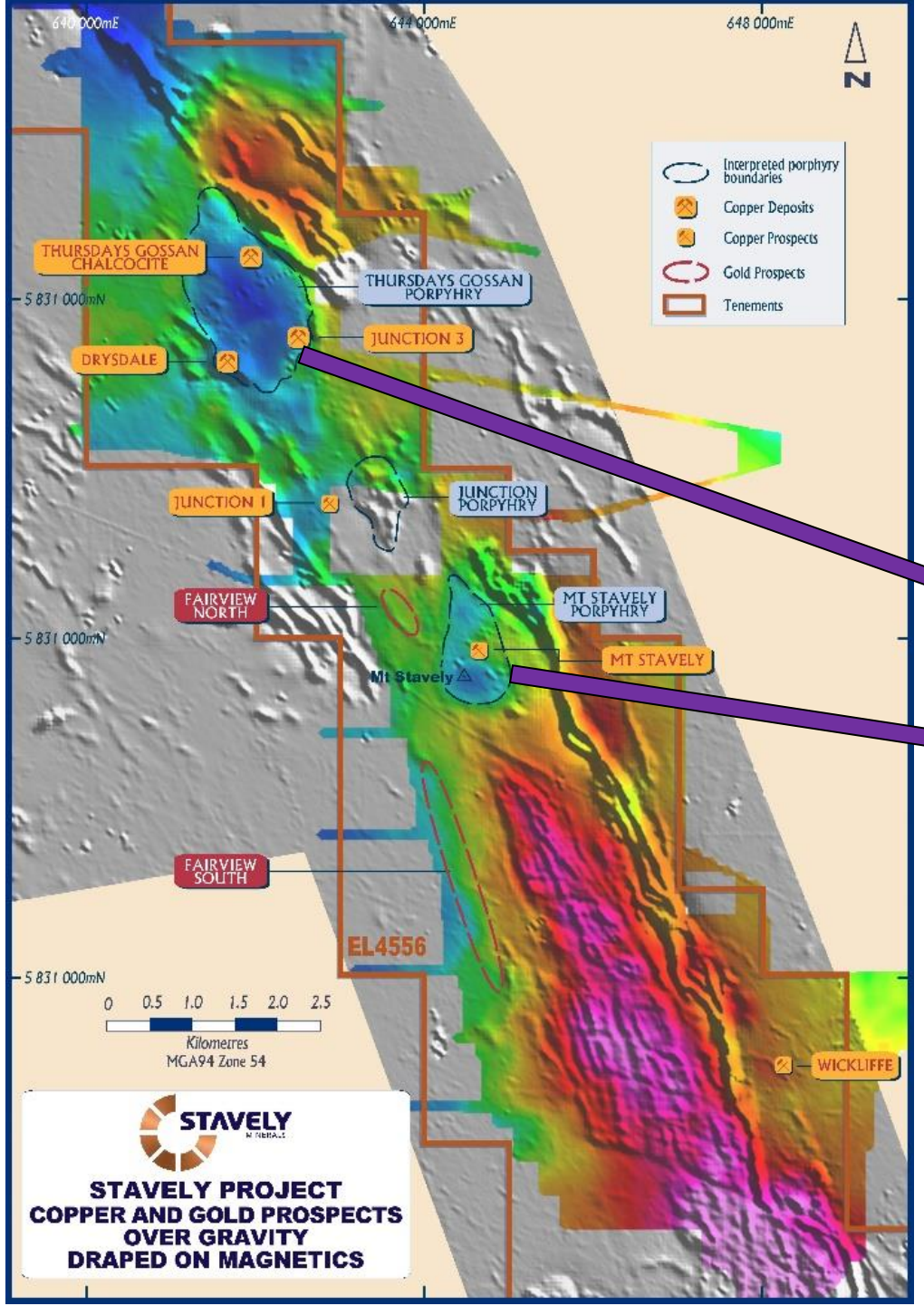

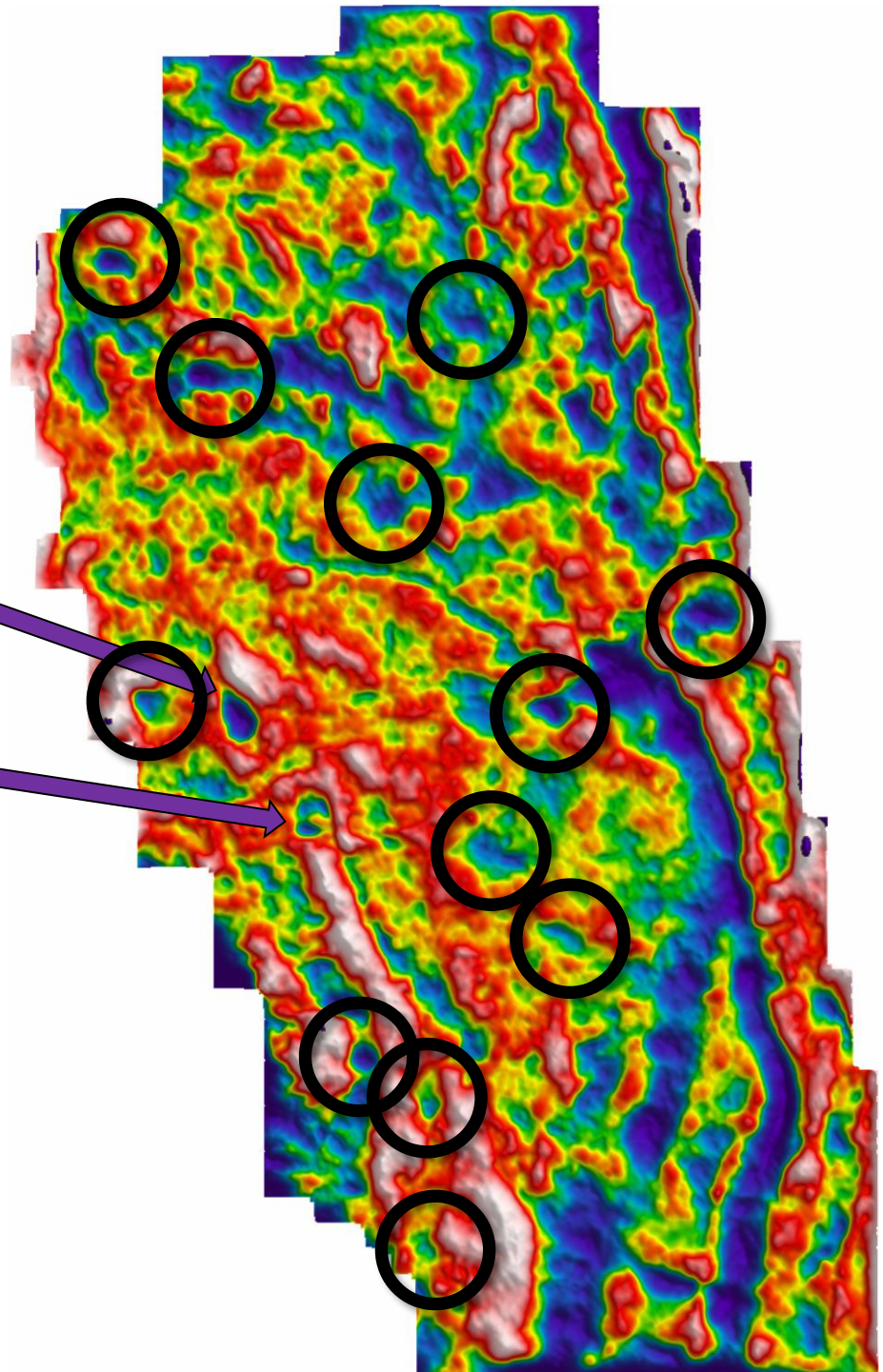

Falcon™ gravity gradiometer image

Regional Exploration – Massive Opportunity for Discovery

- The team has identified 19 regional targets and have active aircore and soil auger programmes
- All of the regional targets are under younger (~10Ma) basalt cover or tertiary transported cover
- Already made a 'blind' porphyry discovery under 30m of transported cover at Toora West
- Targeting method works – proprietary Falcon© gravity gradiometer data opens new exploration 'search space'
- New emerging discovery at the S41 prospect

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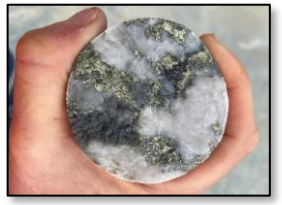
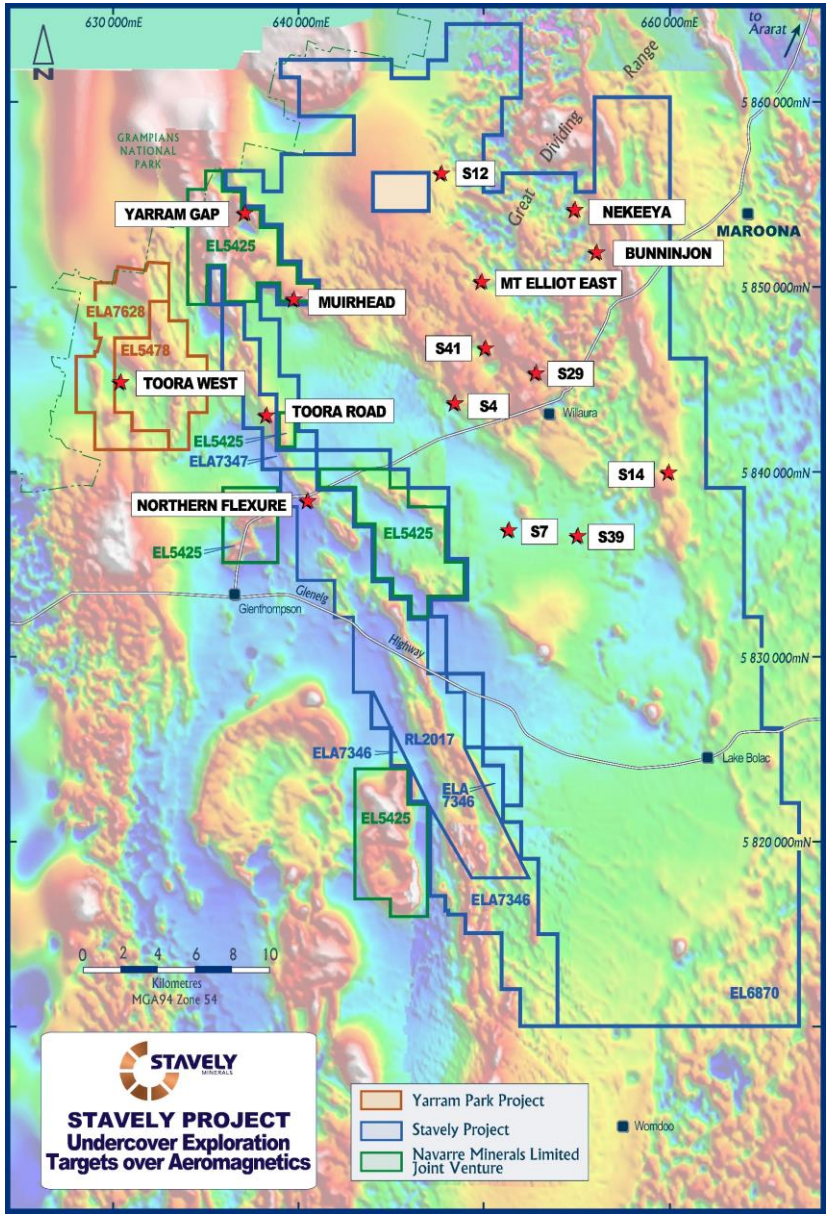


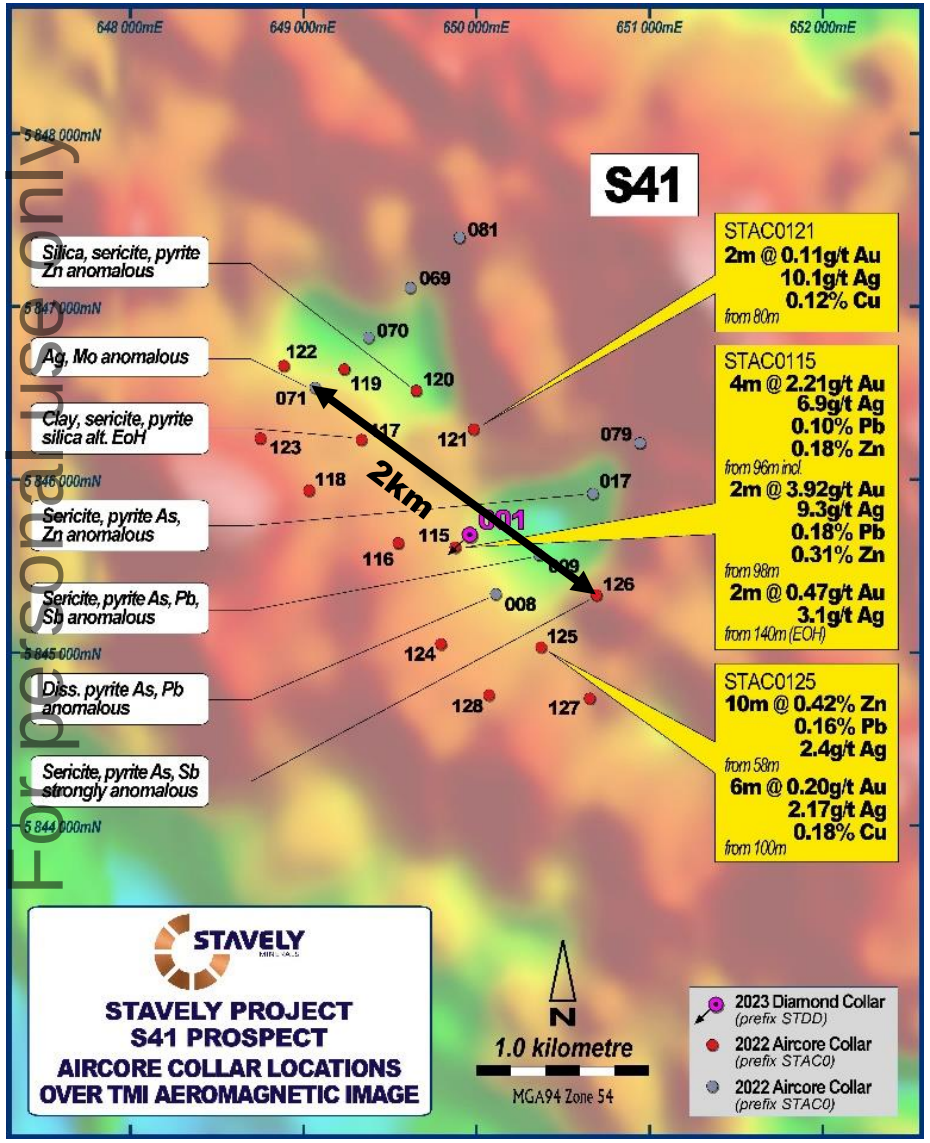
Massive quartz vein with chalcopyrite and molybdenite at Toora West prospect - STWD005 at 287m – **0.6m @ 8.72g/t Au, 1.85% Cu, 5.2g/t Ag & 151ppm Mo**



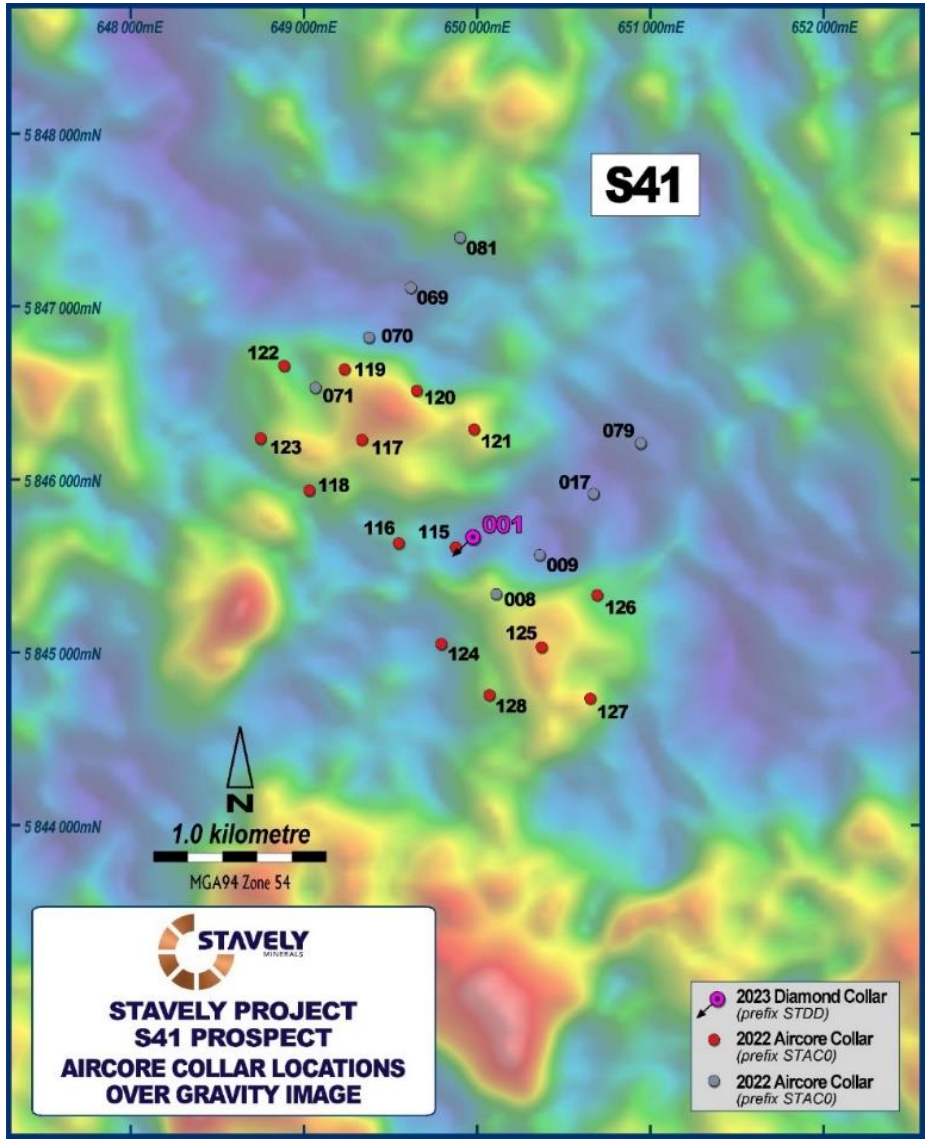
See ASX announcement 14/10/2021 and available from www.stavely.com.au

Emerging Discovery? – The S41 Breccia Prospect

Magnetics



Gravity



S41 Prospect Aircore

- **4m at 2.21g/t Au** from 96m drill depth, including:
  - ***2m at 3.92g/t Au*** *from 98m in aircore drilling*
- Large 2km alteration zone
- Strongly anomalous base metals and pathfinder geochemistry

See ASX announcement 19/04/2023 and available from www.stavely.com.au

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Emerging Discovery? – The S41 Breccia Prospect

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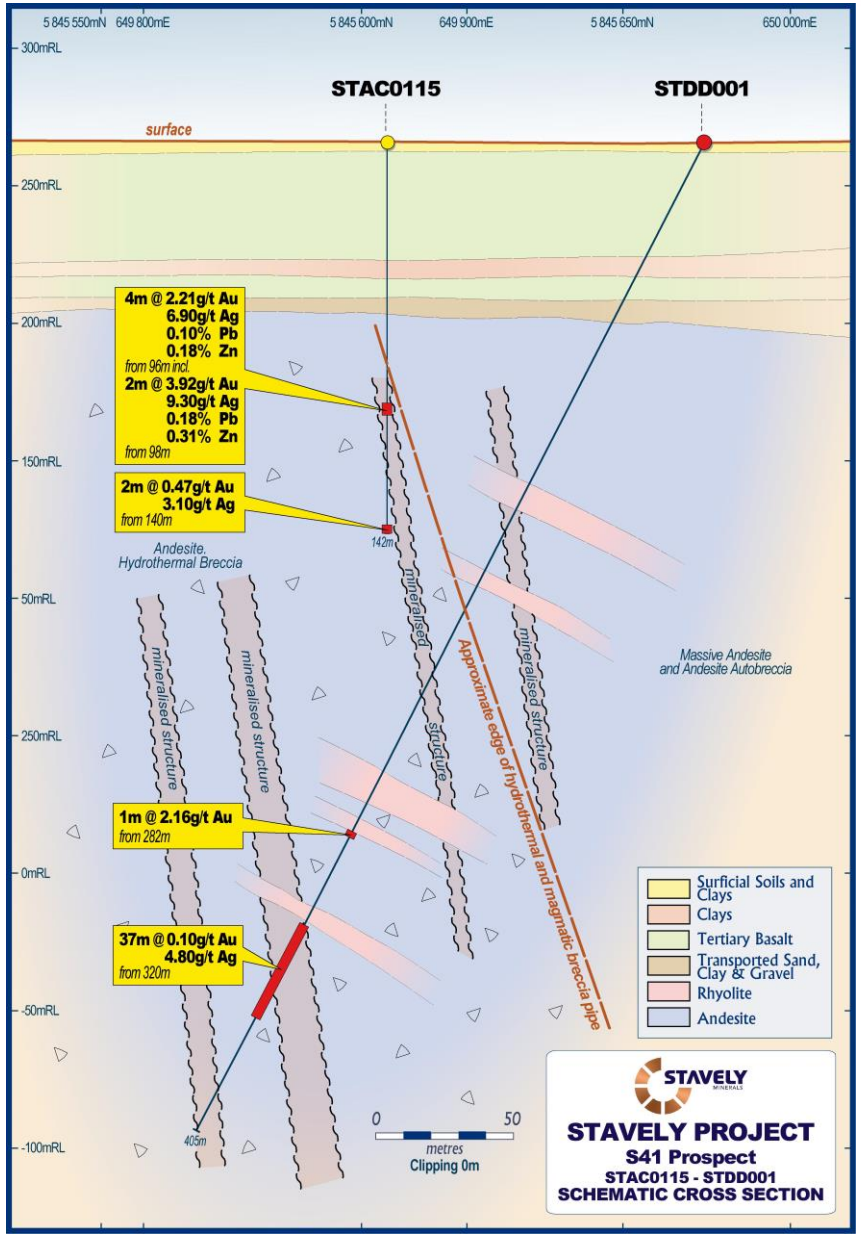

S41 Diamond Drill Hole

- **1m at 2.16g/t Au** from 282m drill depth
- **37m at 0.10g/t Au**, including:
  - ***2m at 0.56g/t Au*** *from 320m, and*
  - ***5m at 24.3g/t Ag*** *from 353m*
- Gold and silver in the system
- Breccia-hosted systems host notoriously inconsistent gold mineralization eg. Kidston
- Big systems

See ASX announcement 26/04/2023 and available from www.stavely.com.au

Toora Road

Toora Road Prospect

- Same magnetic trend as the Cayley Lode and the Northern Flexure prospect (left image)
- Historic aircore drill intercept (CRA): **15m @ 1.28g/t Au**, 11g/t Ag, 0.26% Cu, 0.94% Pb and 0.10% Zn immediately north of a prominent gravity low (right image)

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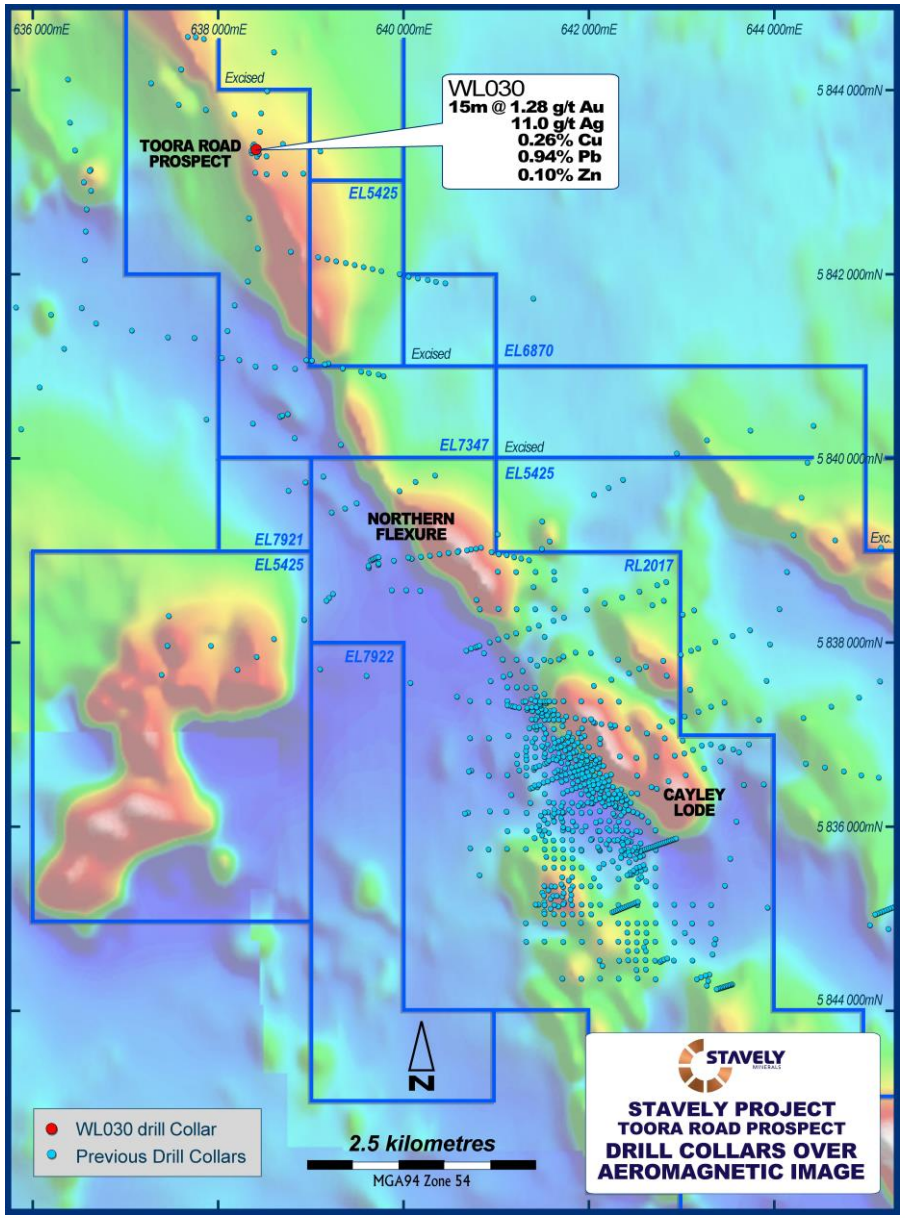

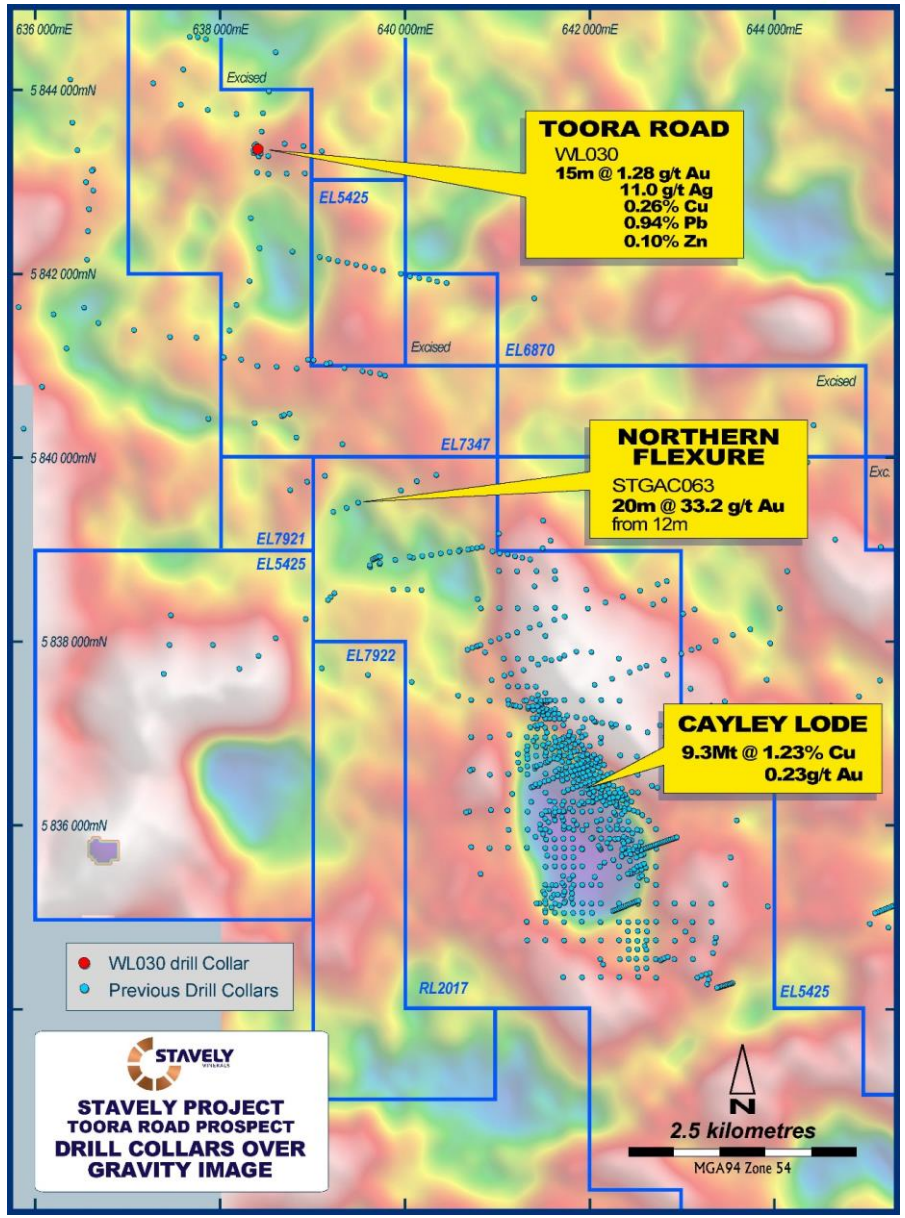

See Stavely Minerals Prospectus and available from www.stavely.com.au

Emerging Discovery? – The S41 Breccia Prospect

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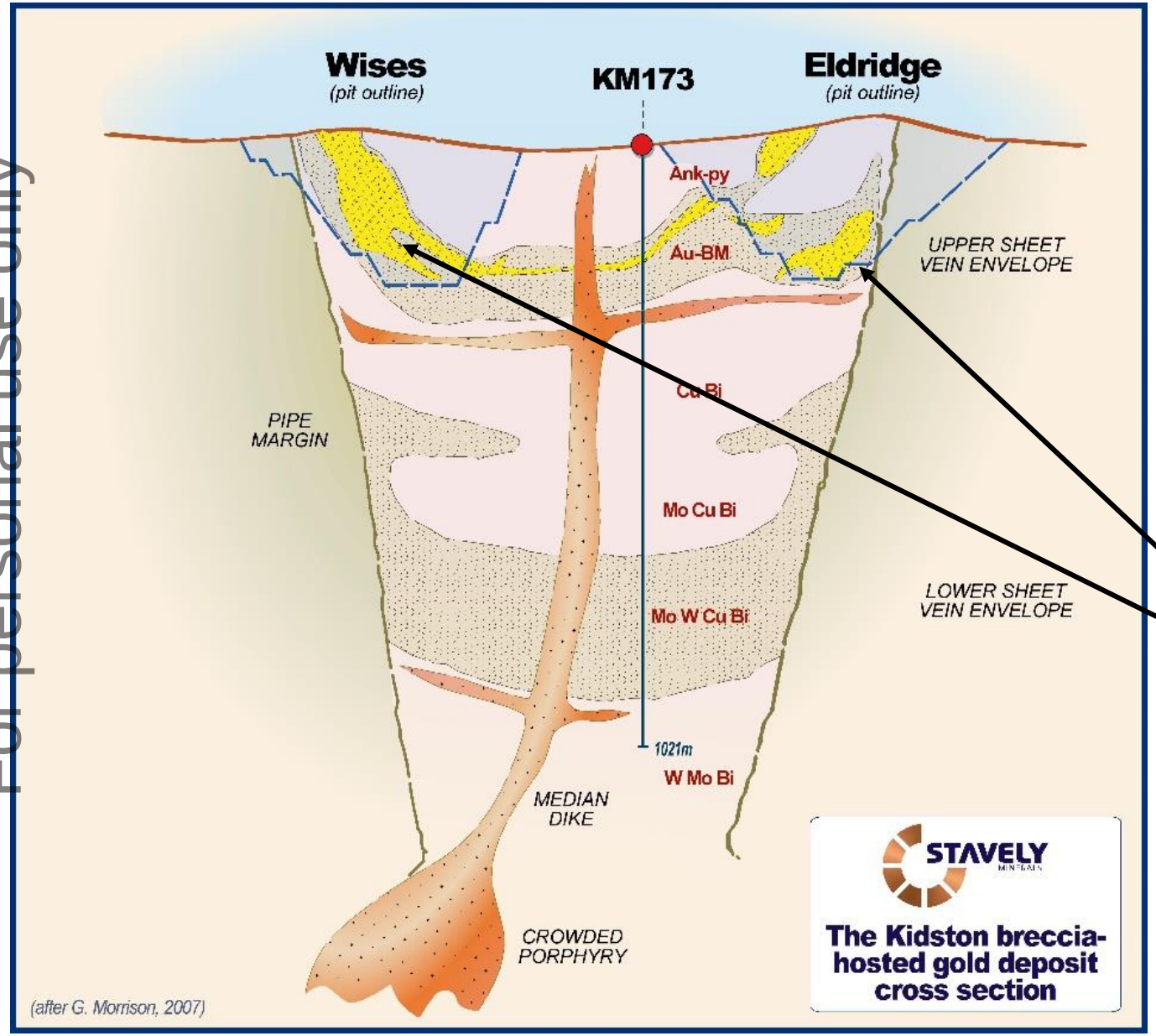

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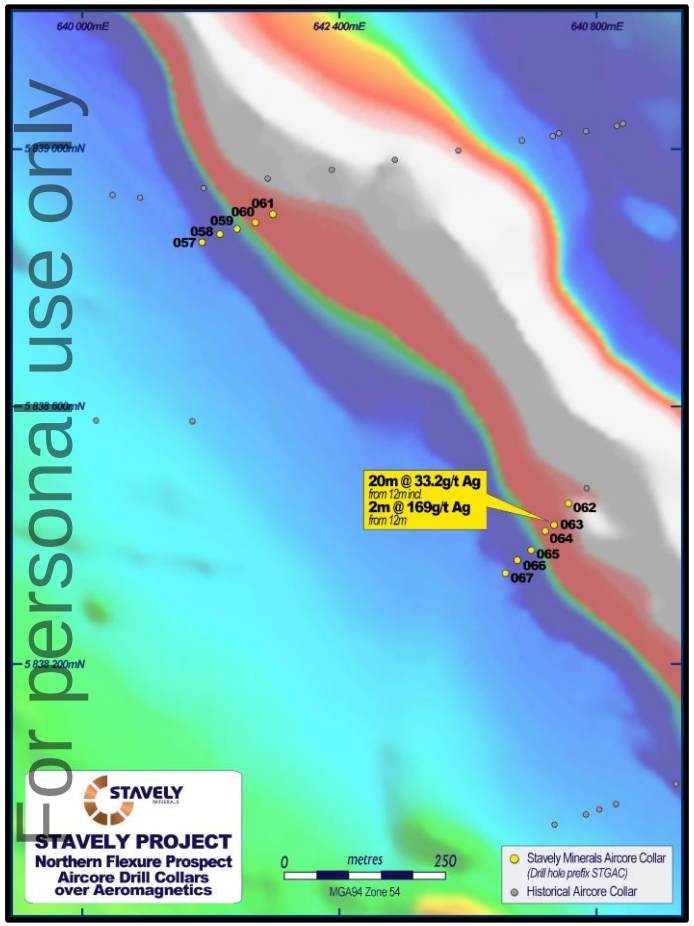
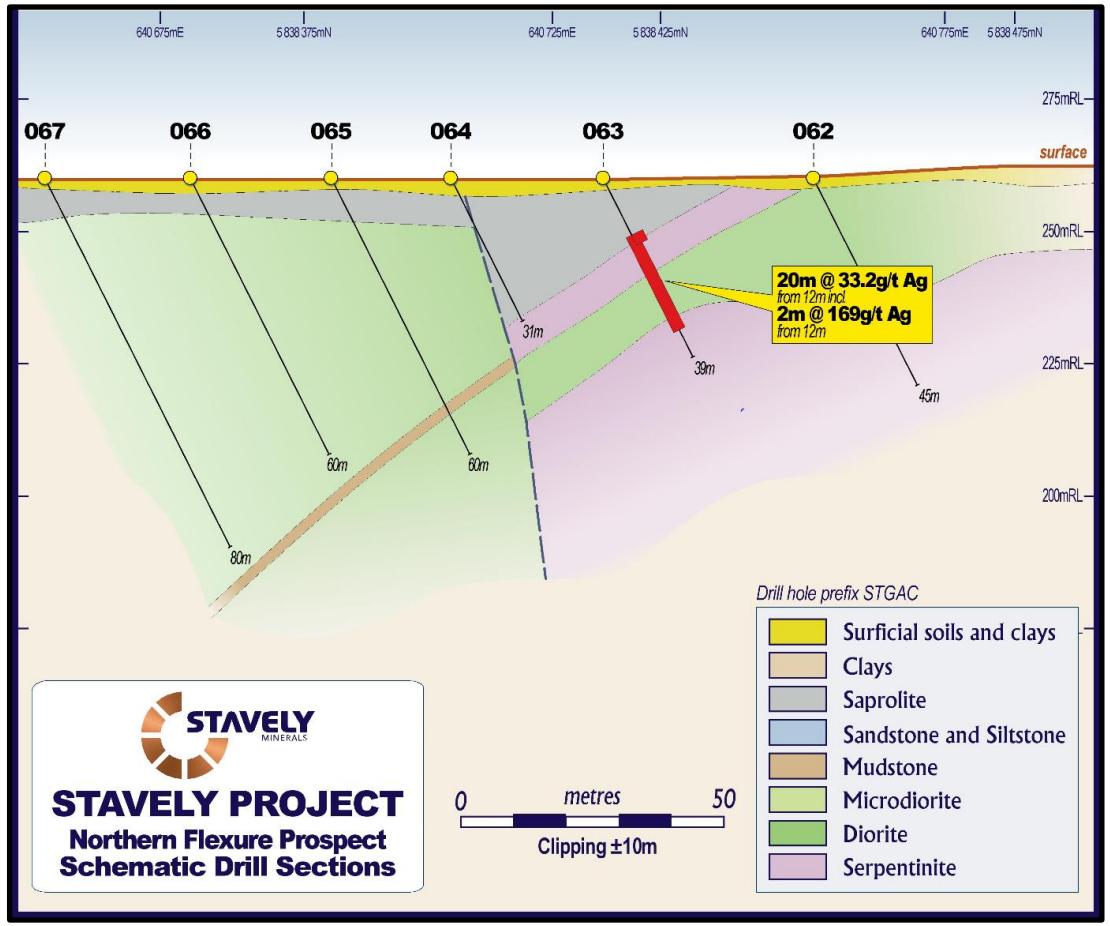
See ASX announcement 26/04/2023 and available from www.stavely.com.au

Emerging Discovery? – The Northern Flexure Prospect





Northern Flexure Prospect

- First drill programme
- **20m at 33.2g/t Ag** from 12m drill depth, including:
  - ***2m at 169g/t Ag*** *from 98m*
- Similar ultramafic contact setting to the Cayley Lode

See ASX announcement 19/04/2023 and available from www.stavely.com.au

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Junction 1 – Massive Opportunity for Additional Discovery

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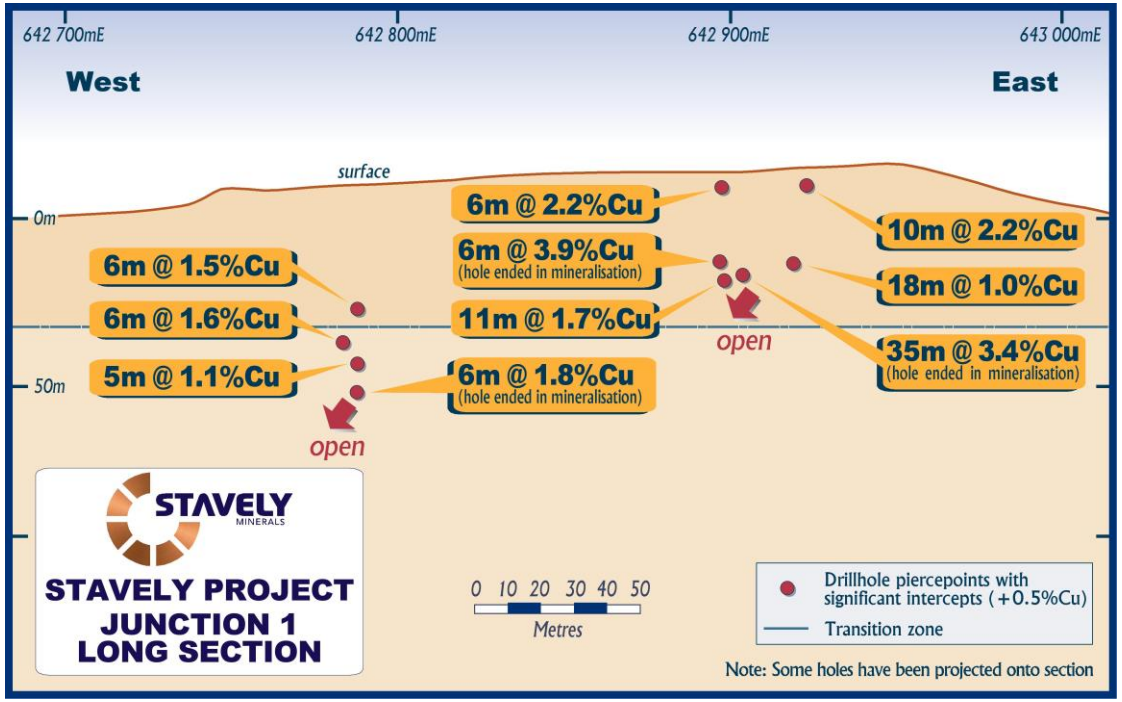
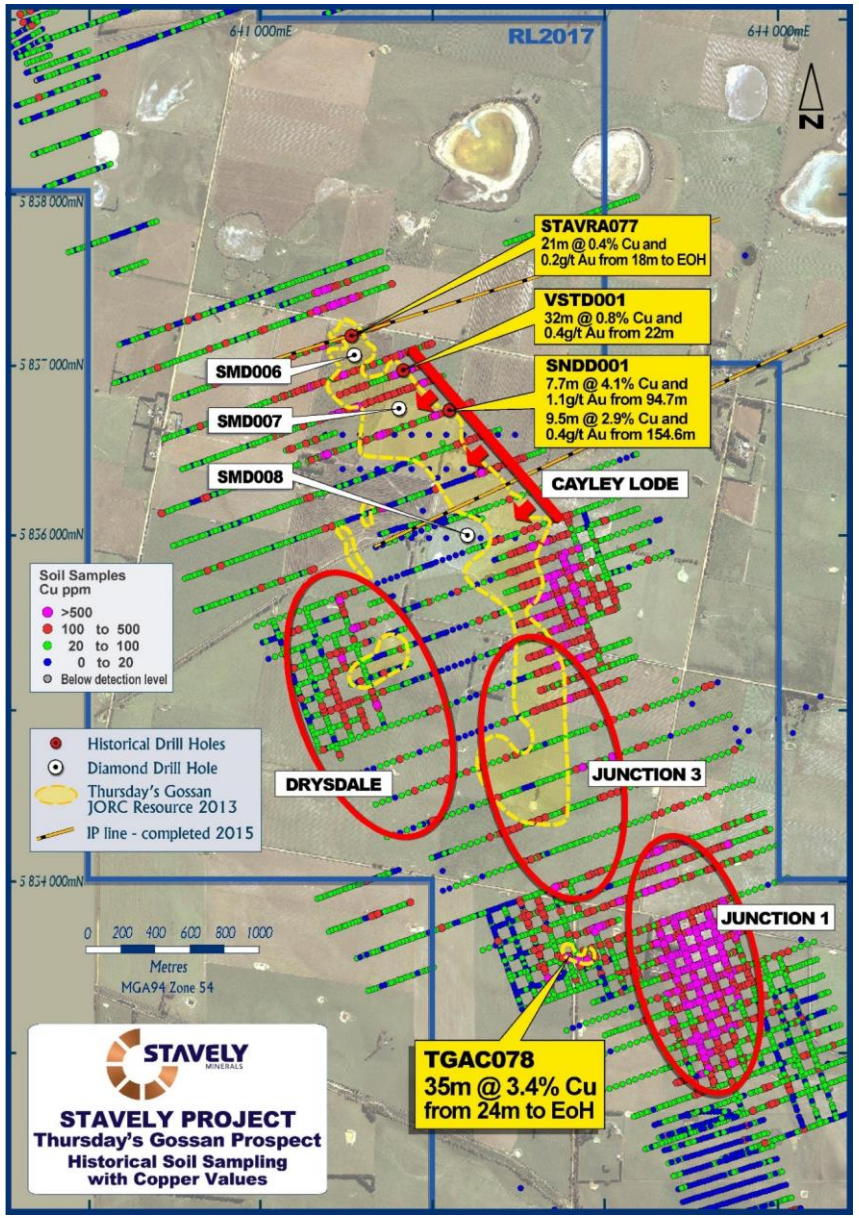
Junction 1 Prospect

- 2km south of the Cayley Lode
- Largest and highest grade soil anomaly in the project
- Restricted access over the past 15 years
- Aircore drill results including **35m at 3.4% Cu from 24m**





See Stavely Minerals Prospectus and available from www.stavely.com.au

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New Regional Porphyry Targets

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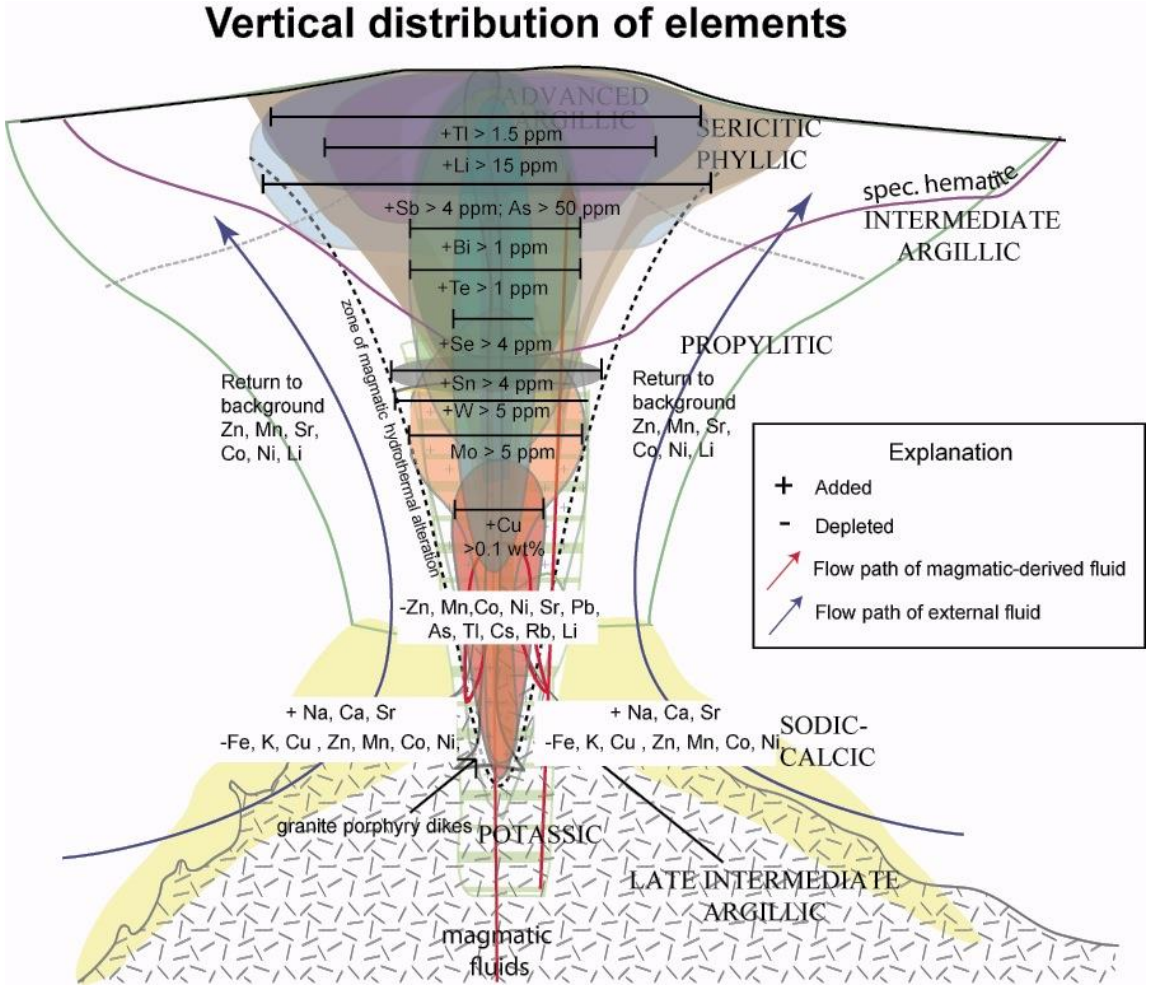
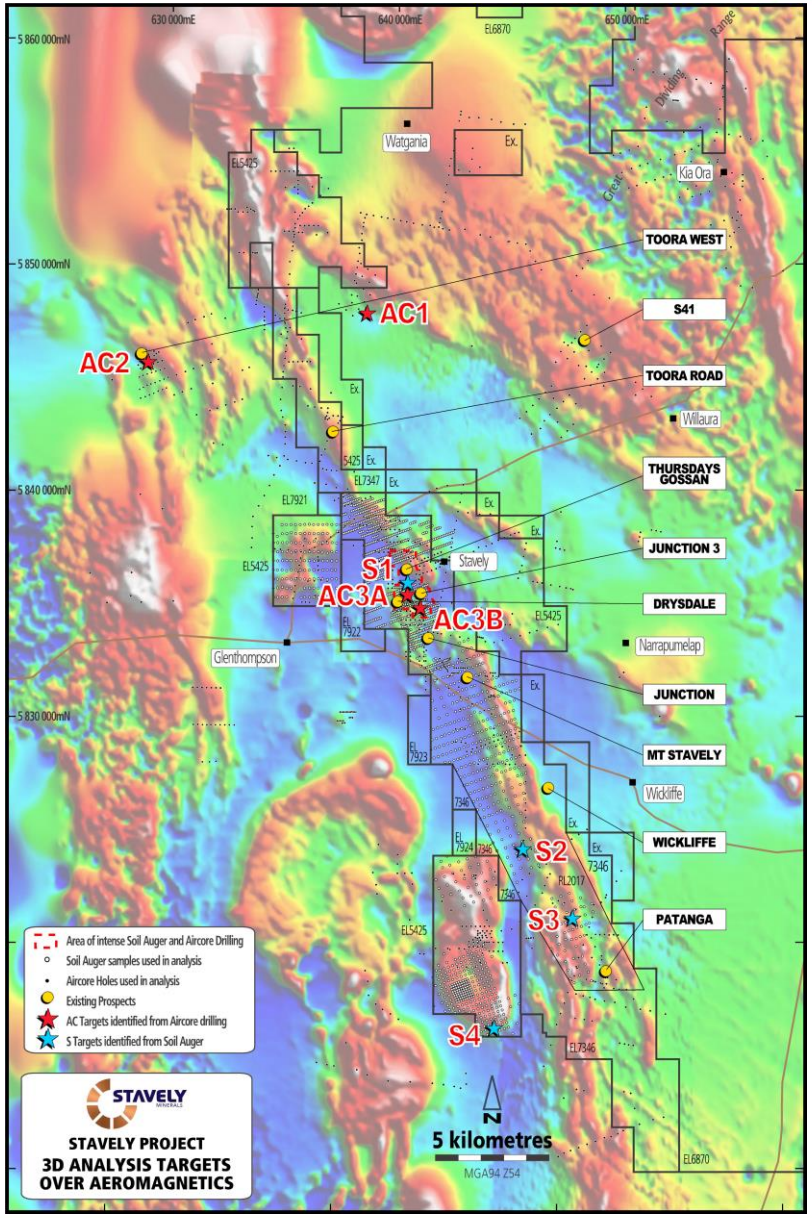
Regional Exploration – Massive Opportunity for Discovery

- Soil geochemistry analysis by Dr Dan Cole, Fathom Geophysics
- Utilises vertical metals zonation model above porphyry systems





See ASX announcement 3/10/2021 and available from www.stavely.com.au

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Regional Exploration – Massive Opportunity for Discovery

- S2 and especially S3 porphyry targets are associated with gravity lows, consistent with hydrothermal alteration related gravity lows at Thursday's Gossan porphyry, The Northern Flexure, Toora Road prospects and the Toora West porphyry.

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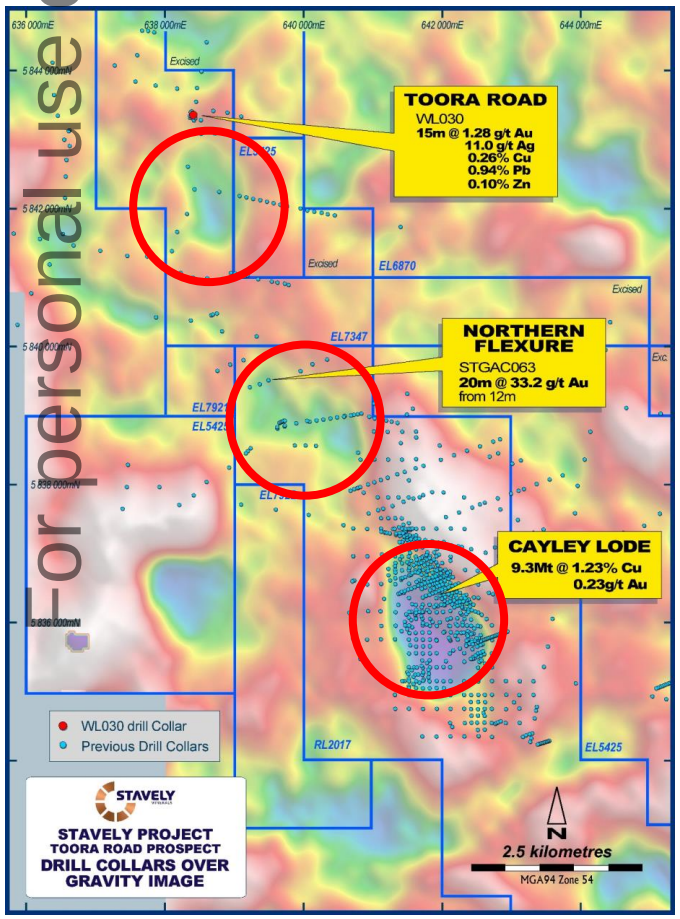

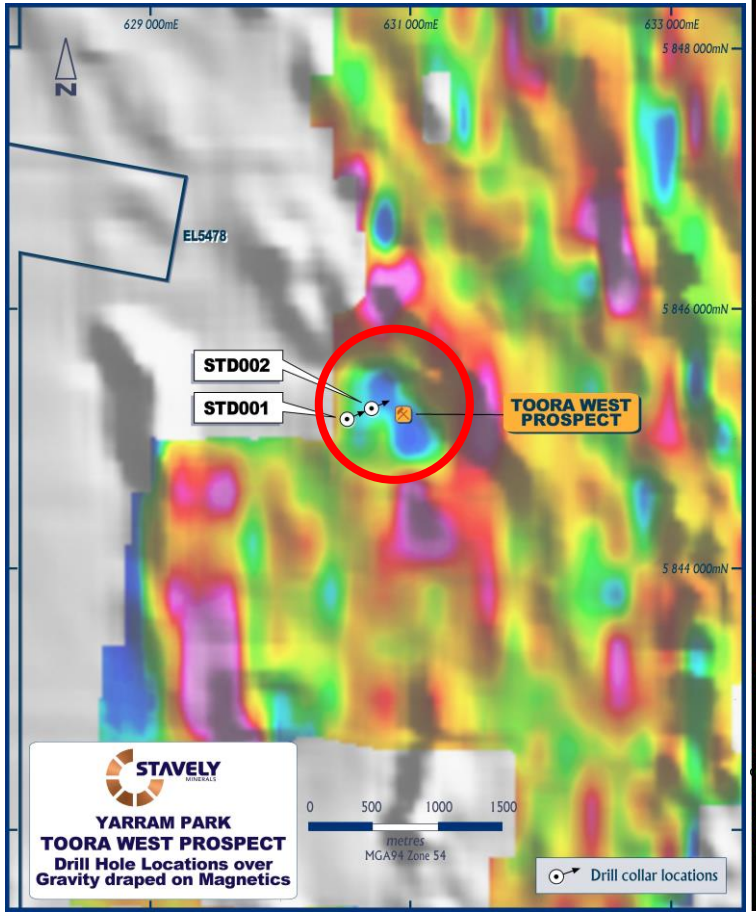

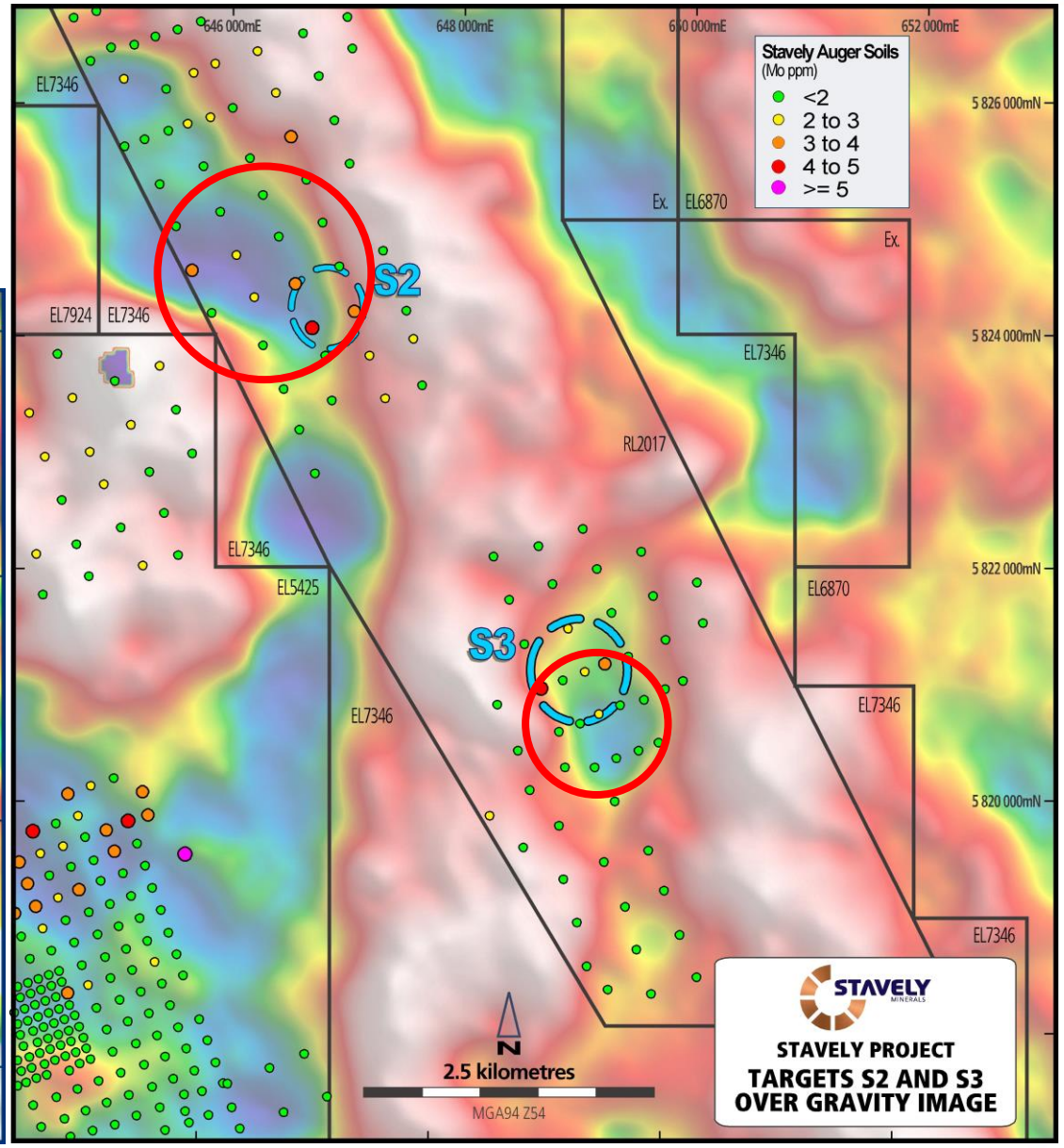

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Work Programme

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12-month Work Programme

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Copper and Nickel …the Ultimate "Future-Facing" Commodities

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3.6 tonnes of copper for every MW of wind power

4-5 tonnes of copper for every MW of photo-voltaic solar power

In order to migrate to a **low-carbon economy** and provide **alternative energy solutions**, certain strategic minerals are required to build the wind farms, solar farms, electric vehicles and high-technology needed to facilitate this transition.

Copper and Nickel are some of the key metals required

4 x more copper in an electric car than one with an internal combustion engine

6 types of bacteria killed by copper surfaces

Copper and Nickel…Compelling Market Fundamentals

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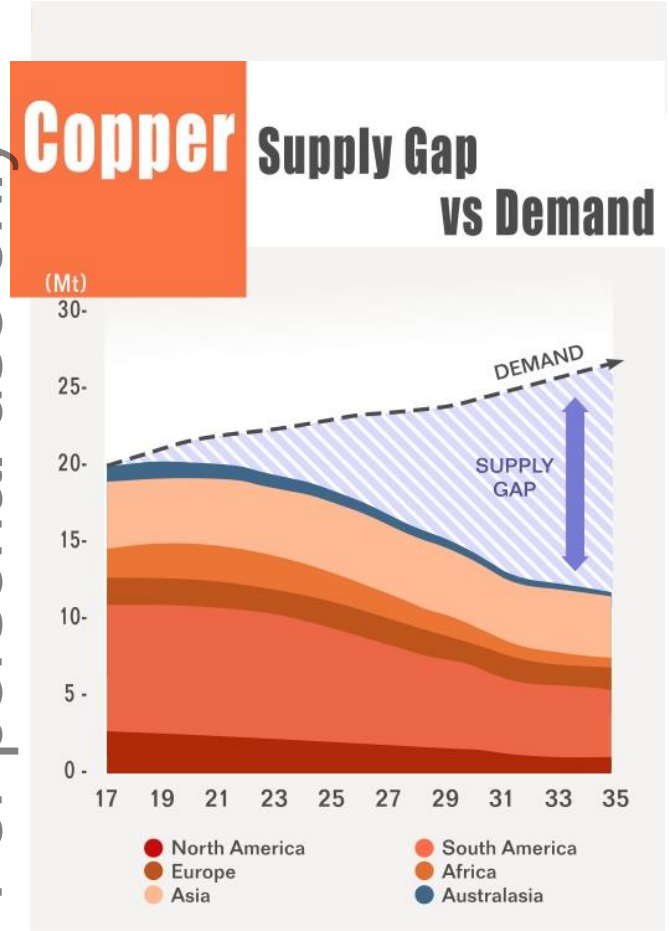
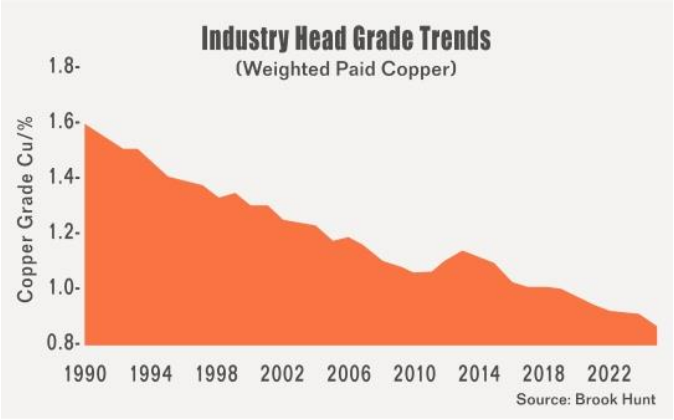


CRU estimates a 15 million tonne copper supply deficit by 2035

There are very few high-quality projects coming on stream in first world jurisdictions

Escondida, the world's largest copper mine:

- 1.72% Cu average head grade in 2007
- 0.52% Ore Reserve grade in 2019



Corporate Summary

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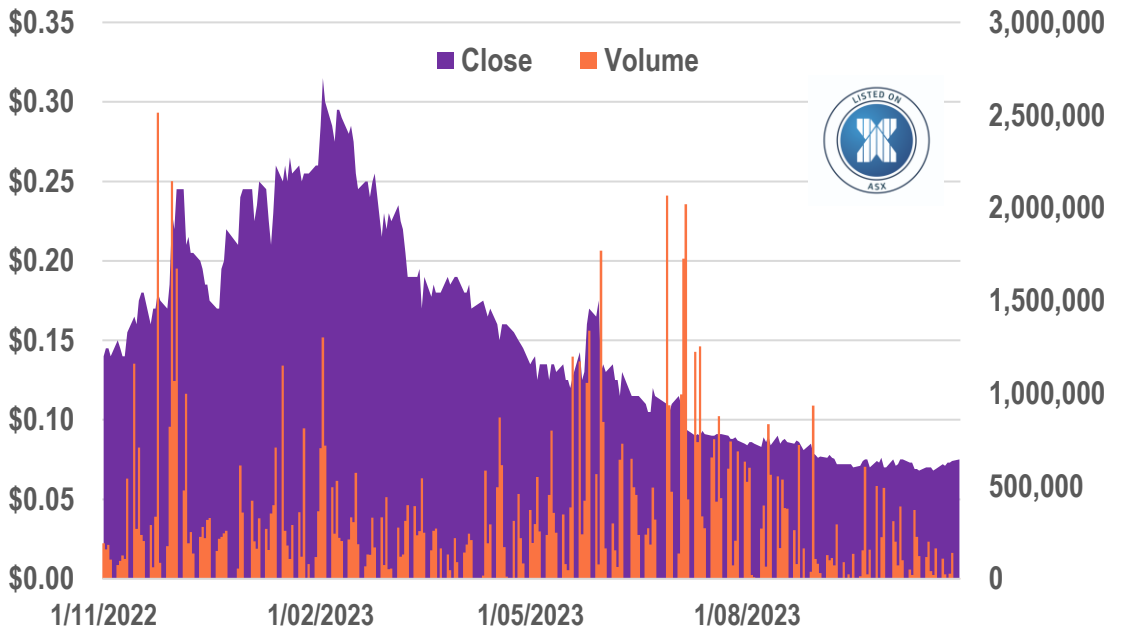
CAPITAL STRUCTURE

ASX Ticker	SVY
Share Price (30/10/23)	$0.070
Shares on Issue	377M
Cash (30/09/23)	$2.7M
Market Capitalisation	$26.4M
Management and Staff	~10% equity

Directors

Chris Cairns	Executive Chair
Jennifer Murphy	Technical Director
Peter Ironside	Non-Executive Director
Amanda Sparks	Non-Executive Director & Company Secretary
Rob Dennis	Non-Executive Director

12-month Share Price to 30 October 2023



Summary – Key Investment Takeaways

- ✓ First-mover position (+1,000km^2) in a potential emerging copper province
- ✓ Discovery of structurally-controlled high-grade lode-style copper-gold-silver mineralisation similar to the Magma (Arizona) and Butte (Montana) deposits
- ✓ Initial Mineral Resource estimate completed, obvious high-grade extensional opportunities **PLUS the deep porphyry discovery opportunity**
- ✓ Outstanding potential for a new porphyry province with regional targets and emerging discoveries – Junction 1, S41 Breccia and Toora Road, porphyry targets S2 and S3
- ✓ Hawkstone Ni-Cu-Co Project provides an outstanding opportunity for discovery in an emerging Ni province with a winter exploration season
- ✓ BIG targets

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STAVELY MINERALS

ASX Code: SVY

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The information in this presentation is extracted from information available to view on www.stavely.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 and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement 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 original market announcement.

Mineral Resources Classifications

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Table 1. Cayley Lode Initial Mineral Resource estimate

Resource Material	Resource Category	Cut-off (Cu %)	Tonnes (Mt)	Grade (Cu %)	Cont. Cu (Mlbs)	Grade (Au g/t)	Cont. Au (oz)	Grade (Ag g/t)	Cont. Ag (oz)
Primary Mineralisation (OP)	Indicated	0.2	5.87	1.04	134.4	0.23	43,407	7	1,321,074
	Inferred	0.2	1.7	1.3	49	0.2	10,931	9	491,907
Sub-Total Primary OP			7.6	1.1	183	0.2	54,338	7.4	1,808,158
Primary Mineralisation (UG)	Indicated	1.0	-	-	-	-		-	
	Inferred	1.0	1.7	1.8	69	0.2	10,931	6	327,938
Sub-Total Primary UG			1.7	1.8	69	0.2	10,931	6	327,938
Total Cayley Lode			9.3	1.23	252	0.23	65,000	7.1	2,100,000

Table 4. Stavely Minerals Total Mineral Resources estimates

Resource Material	Resource Category	Cut-off (Cu %)	Tonnes (Mt)	Grade (Cu %)	Cont. (Mlbs Cu)	Grade (Au g/t)	Cont. (oz Au)	Grade (Ag g/t)	Contained Metal (oz Ag)	Grade (Zn %)	Cont. (kt Zn)
Total Resources	Indicated	1	21.5	0.61	288	0.1	67,301	3.1	2,153,972	0.3	8
	Inferred	1	6.8	1.2	175	0.1	32,797	4.7	1,043,839	0.2	16
Total Stavely Minerals			28.3	0.75*	463	0.11*	100,000	3.5	3,200,000	0.2	24

[1] reported in compliance with the JORC Code 2012, see ASX announcement 14 June 2022