



**LOCKSLEY  
RESOURCES  
LIMITED**

ACN 629 627 144

**RESOURCES IN PLACE – EXTRAORDINARY POTENTIAL**

SEPTEMBER 2022



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## COMPETENT PERSONS STATEMENT

The information in this report related to Tottenham Exploration Results is based on information compiled by Ian Cooper BSc(Hons) BE(Mining) MSc, MAUSIMM, (member # 106609). Mr Cooper has over 35 years' experience in the mineral and mining industry. Mr Cooper is a full-time employee and shareholder of Locksley Resources. Mr Cooper has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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. Mr Cooper consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

The Competent Person for the 2022 Tottenham Resource is Mr Jeremy Peters FAusIMM CP(Geo, Min), a Director of Burnt Shirt Pty Ltd. The Mineral Resource estimate is stated in accordance with the provisions of the JORC Code (2012). Mr Peters has more than five years' experience in the estimation and reporting of Mineral Resources for base metals mineralisation in Australia and overseas, 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. Mr Peters consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

## PREVIOUS DISCLOSURE

The information in this presentation that relates to Exploration Results has been extracted from historic open file exploration reports and various Locksley Resources' ASX announcements, all of which are available at [locksleyresources.com.au](http://locksleyresources.com.au). Locksley Resources confirms that it is not aware of any new information or data that materially affects the information included in these original market announcements and that all material assumptions and technical parameters underpinning the relevant market announcements continue to apply and have not materially changed. Locksley Resources confirms that the form and context in which the Competent Person's findings are represented have not been materially modified from the original market announcements.

The Board of Directors of Locksley Resources Limited authorises the release of this presentation.



# SHAREHOLDINGS

## TIGHT STRUCTURE

Top 20 Holders  
68.43%

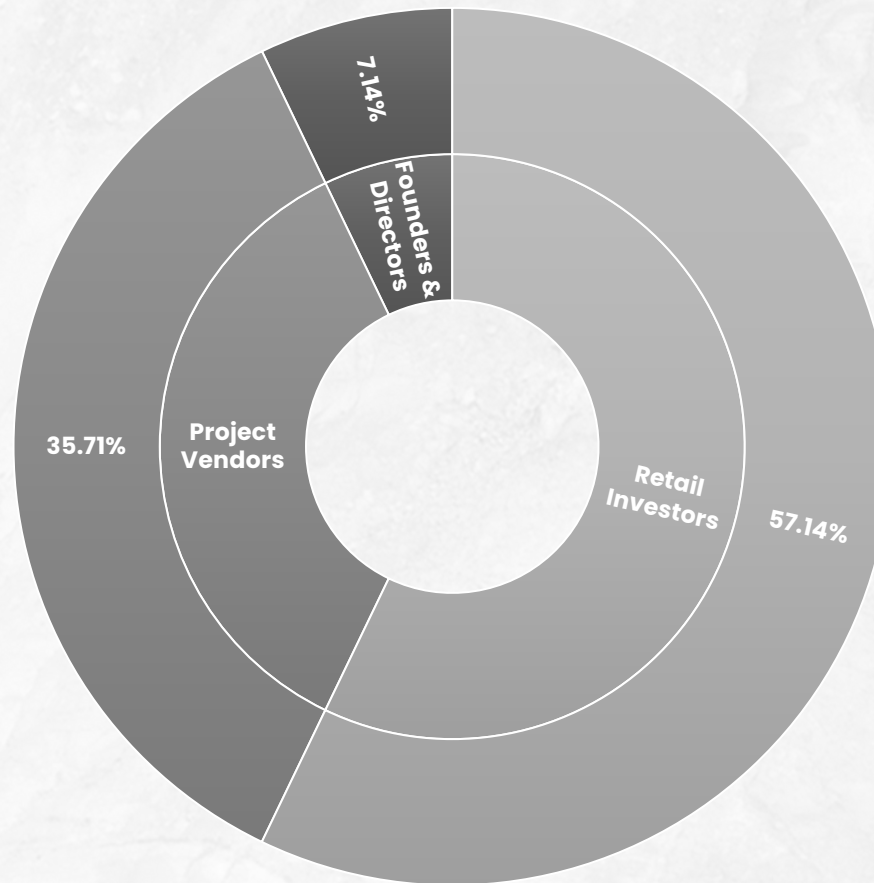
Supportive Project  
Vendors

Resources  
Remain Open

New Exploration  
Targets

## SHAREHOLDER BREAKDOWN

(September 2022)



■ Founders & Directors ■ Retail Investors ■ Project Vendors

## CURRENT STRUCTURE

ASX Code	LKY
Shares in Issue	56,000,001
Options in Issue	9,000,000
Market Capitalisation (\$0.08)	\$4.5
Cash at Bank (30 June 2022)	\$1.9m
Freehold Property Ownership	\$100,000
Enterprise Value (31 August 2022)	\$2.5m



# TOTTENHAM MINERAL RESOURCE

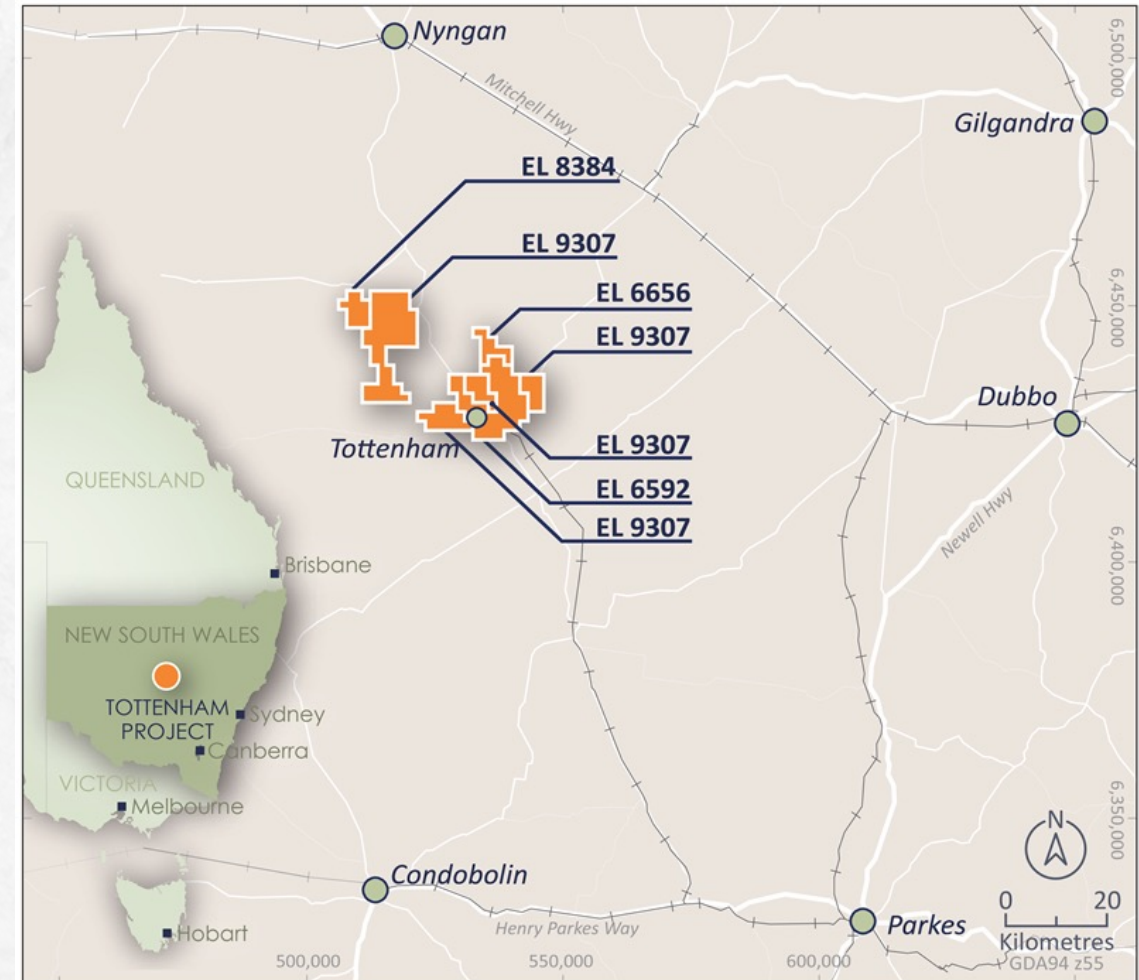
## 4 GRANTED EXPLORATION LICENSES

- 470km<sup>2</sup> Land Package
- All tenements granted until at least 2026
- Multiple known Cu – Au – Ag Deposits
- Infrastructure in Place

## JORC 2012 COMPLIANT RESOURCES

Significant exploration with resources in two areas, being Carolina and the Mount Royal to Orange Plains Deposits;

**9.86Mt @ 0.72% Cu, 0.22g/t Au & 2g/t Ag  
for 71kt Copper, 67koz Gold & 536koz Silver**





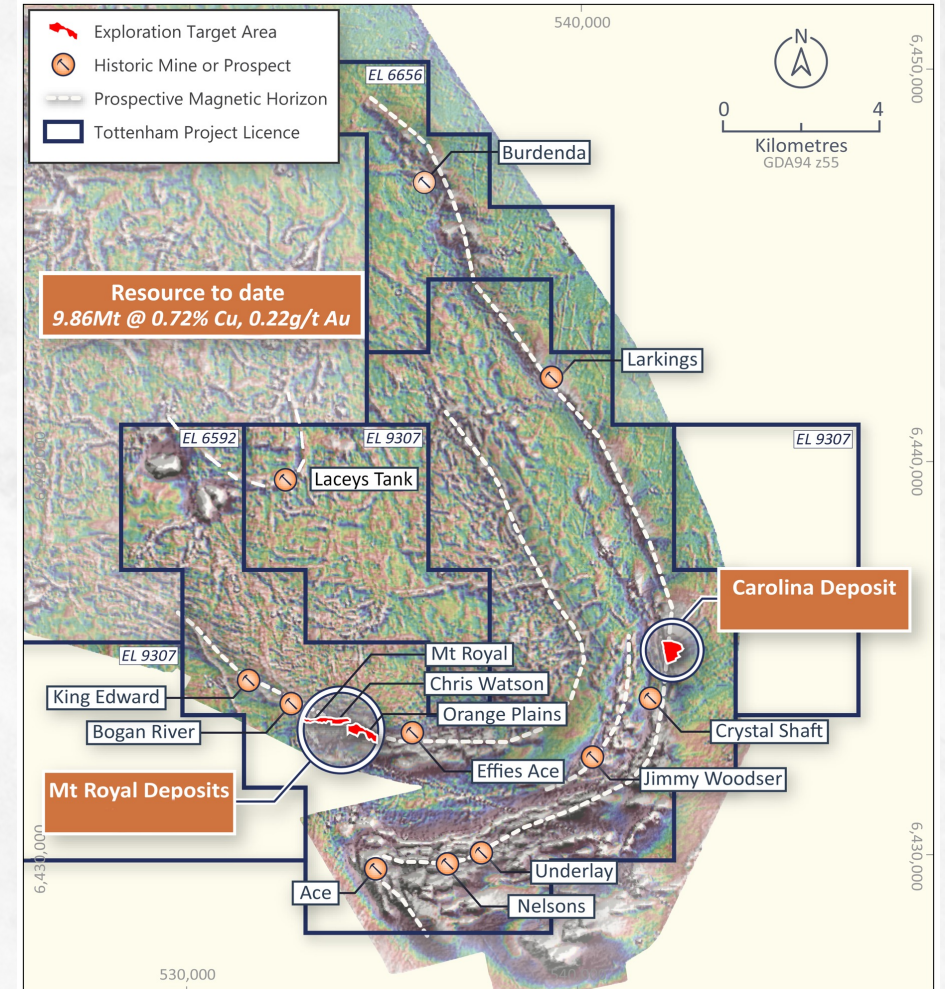
# TOTTENHAM POTENTIAL

**Resource Extensions – Multiple New Exploration Targets**  
**Numerous Prospects within 10km of Resources**

## SIGNIFICANT RESULTS INCLUDE:

- Bogan River**  
16m @ 6.94% Cu from 3m (TPRC043)
- Ace**  
2m @ 1.26% Cu from 25m (ACRC002)
- Jimmy Woodser**  
24m @ 0.73% Cu from 32m (TPRC057)
- Underlay**  
2m @ 3.7% Cu 0.8g/t Au from 35m (TPRC045)
- Burdenda**  
14m @ 0.31% Cu from 33m (TMAC003)

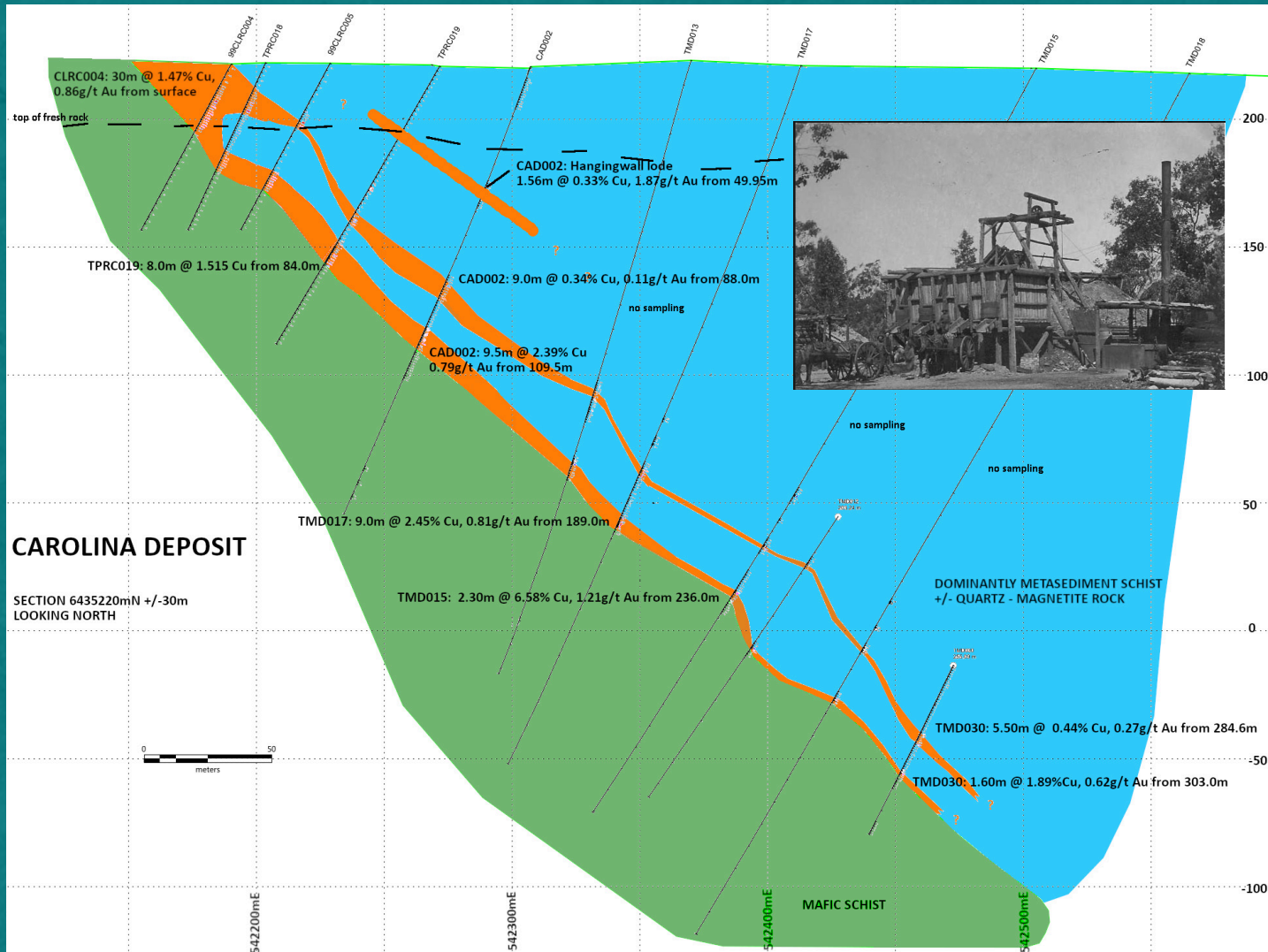
**Outside of the known resources** are multiple, EM/soil/magnetic anomalies and 50km of near surface target horizon.



Target horizons defined by banded quartz – magnetite rocks and copper mineralisation.



# CAROLINA DEPOSIT



## HIGH GRADE INTERCEPTS

Carolina is **consistently mineralised** with **high grade intercepts** such as:

- 20m @ 2.1% Cu, 0.4g/t Au from 10m (CLRC004)
- 4.19m @ 5.7% Cu, 1.6g/t Au from 190.8m (TMD017)
- 9.50m @ 2.4% Cu, 0.8g/t Au from 109.5m (CAD002)

Carolina Resource at 0.3% Cu cut off:

**2.68Mt at 1.09% Cu, 0.39 g/t Au & 1 g/t Ag**

Infill drilling required to the south.  
Deposit remains **open to the north and at depth.**

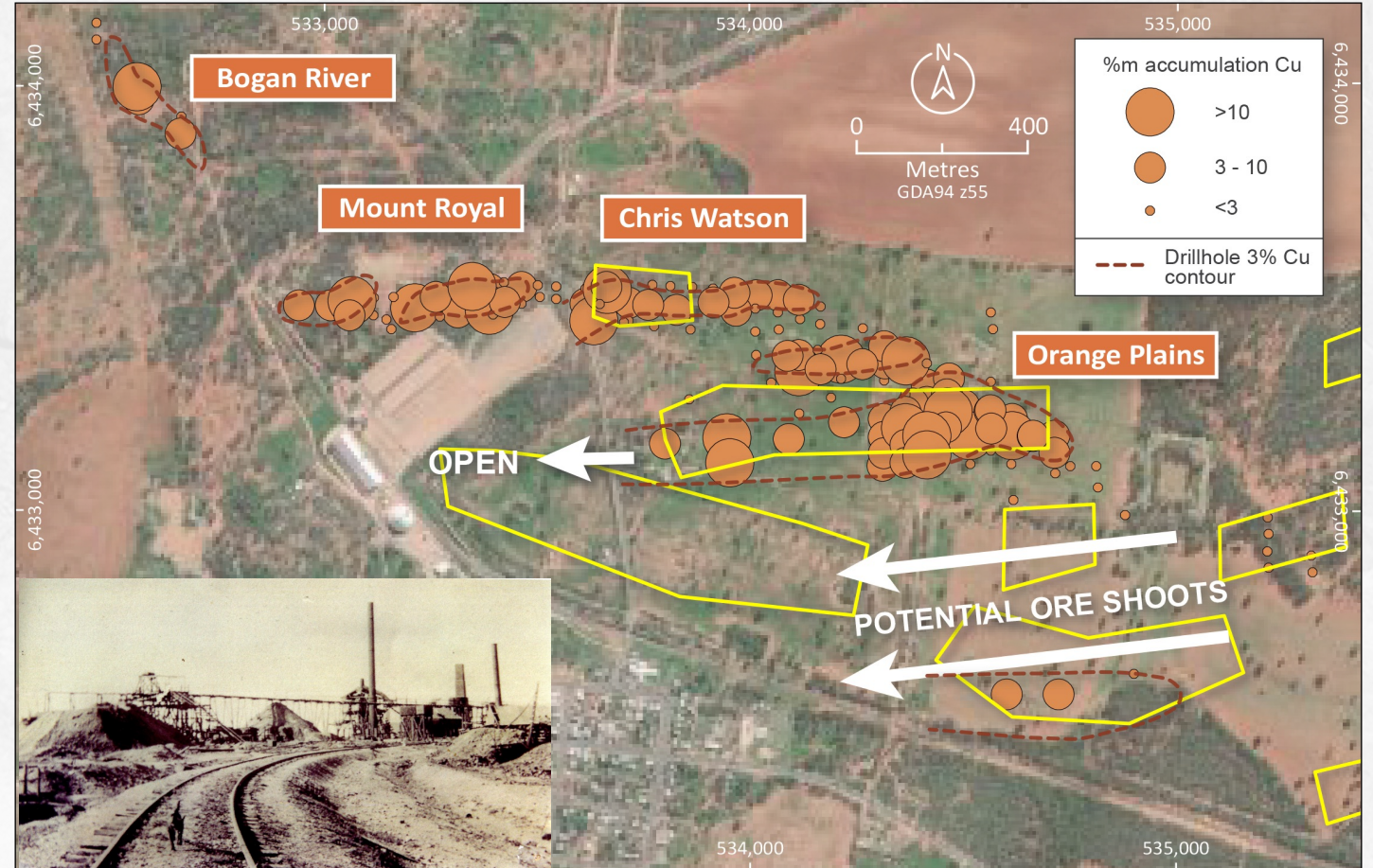
*Inset Carolina Mine 1900.*



# MT ROYAL – ORANGE PLAINS DEPOSIT

## SIGNIFICANT EXTENSION POTENTIAL

- Main **historic mine** and smelter complex.
- Mineralisation occurs as west plunging sulphide ribbons. Ribbons remain **open down plunge** to the west.
- EM and Drilling indicate two additional sulphide ribbons.
- JORC 2012 Compliant Resource at 0.3% Cu cut off
- 7.18Mt at 0.58% Cu, 0.15g/t Au & 2g/t Ag**
- Prime target for additional resources.**



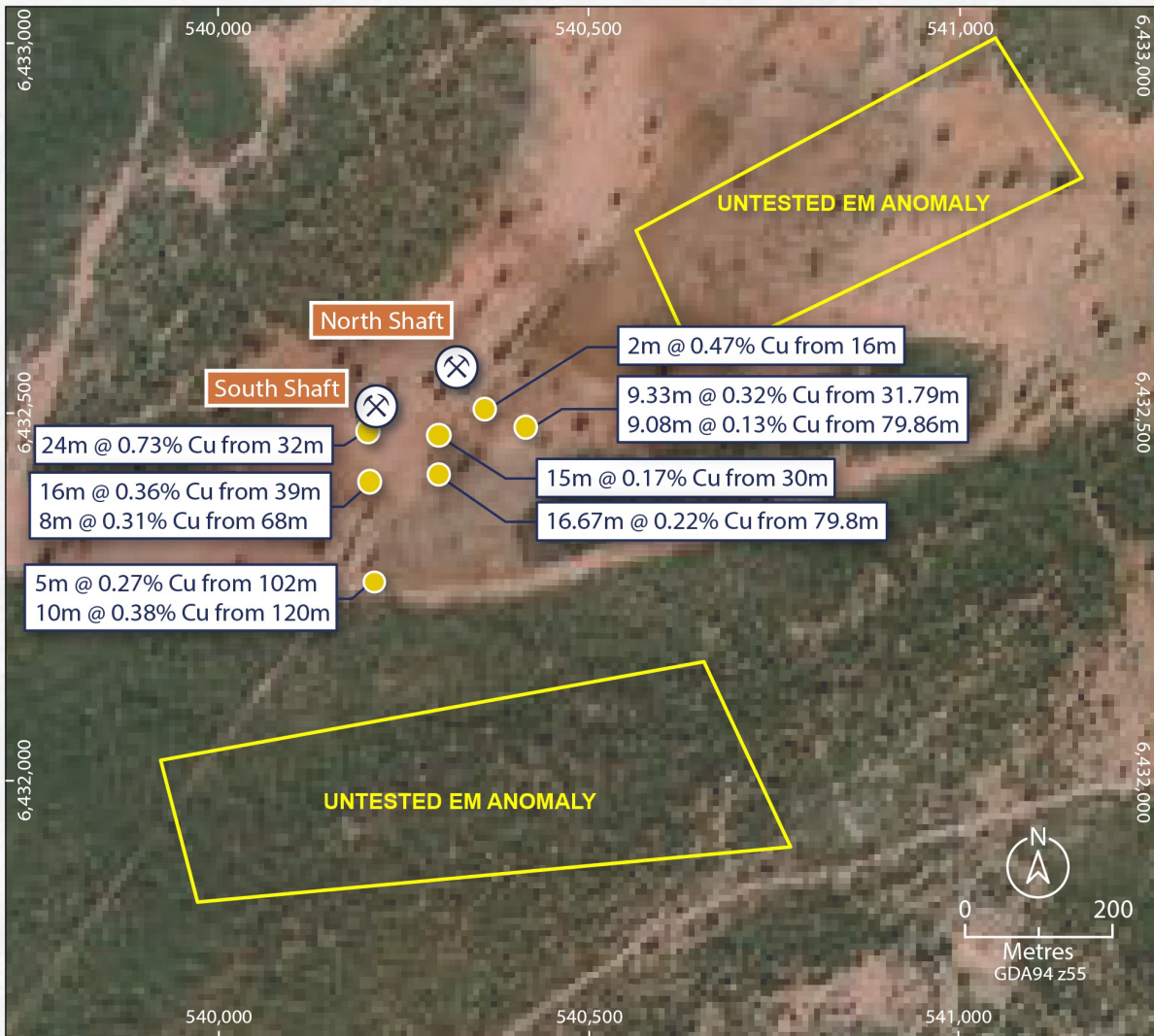
Tottenham area, %m Cu accumulation plot with 3% Cu outline and modelled EM conductors.  
Inset Mount Royal Mine 1918.







# JIMMY WOODSER



## UNTESTED EM ANOMALIES

- Jimmy Woodser is a **historic mine**, 6km east of Tottenham. Copper intercepted in all previous drill holes. **Best result 24m @ 0.73% Cu from 32m (TPRC057).**
- EM anomaly, (coincident with 1970 IP anomaly), down plunge from old workings and drill intercepts. **Untested by drilling.** Recent land clearing has exposed banded magnetite rocks and gossan up dip of EM anomaly.
- A second STRONG EM anomaly to the south is also completely untested.**



# ACE MINE



## SIGNIFICANT UNTESTED EM ANOMALY

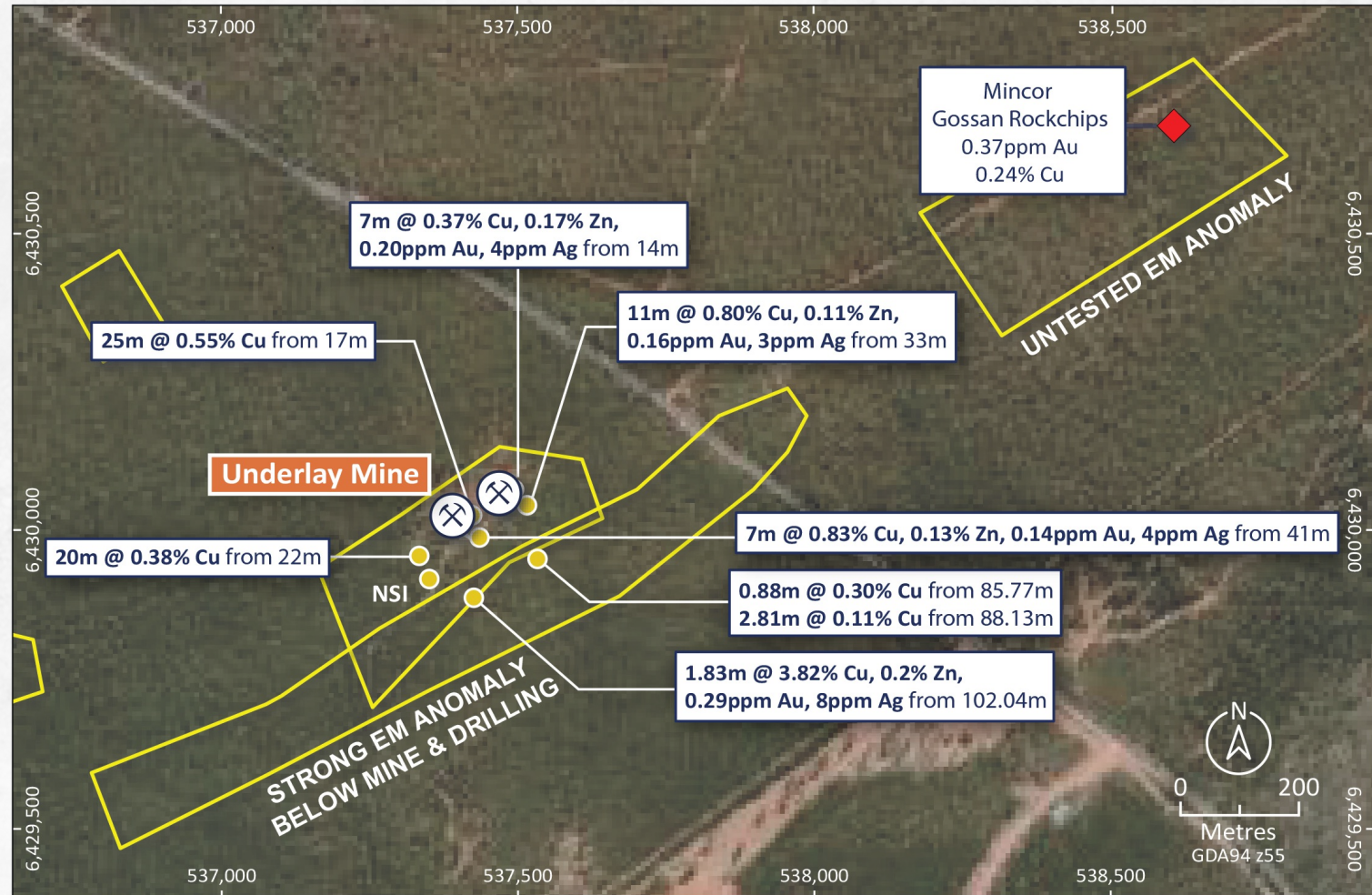
- ✓ Ace Mine is a **historic mine** 3km south of Tottenham.
- ✓ Workings developed to 98m.
- ✓ No drilling since shallow RC in 2000, before EM surveys. No drilling below base of mining. RC tested immediately about old workings for oxide material.
- ✓ **Untested EM** anomaly below previous drilling and mining.
- ✓ **Priority Diamond drill target.**



# UNDERLAY MINE

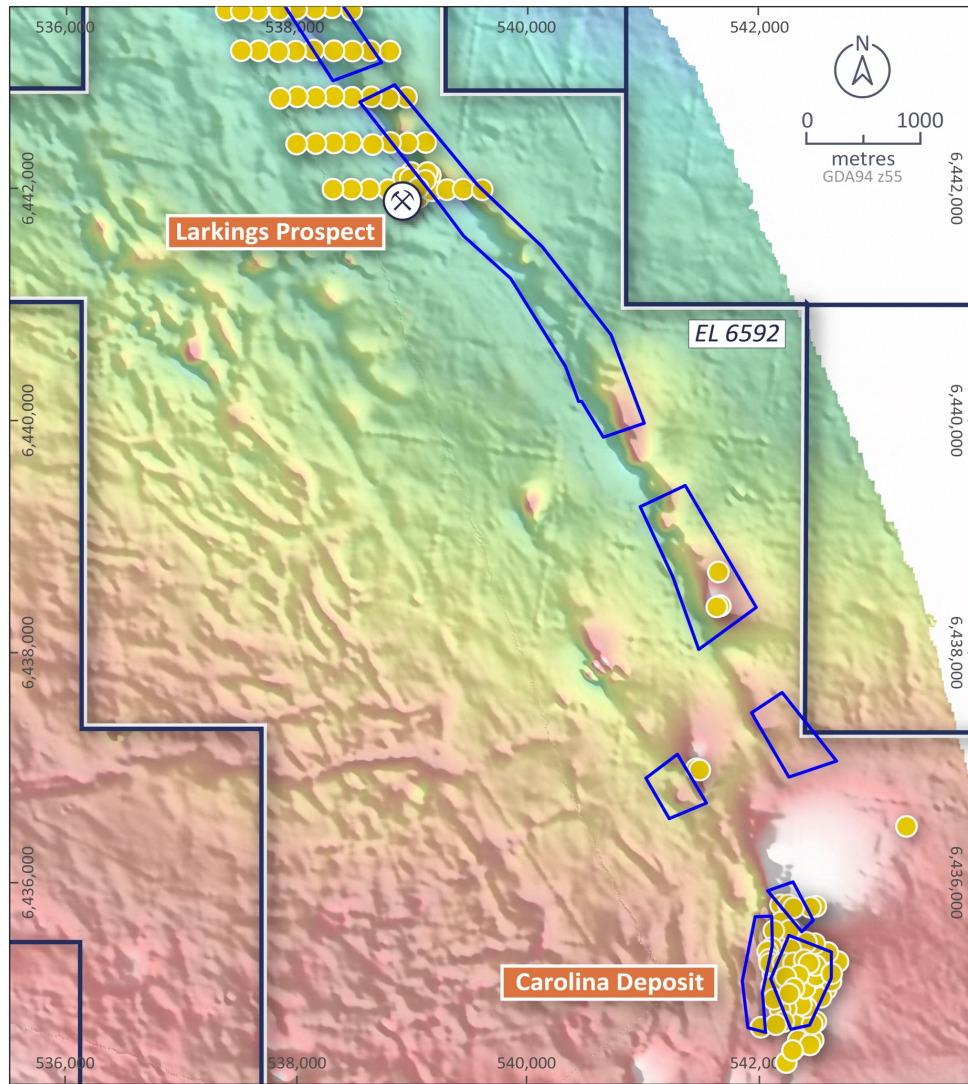
## STRONG UNTESTED EM ANOMALY

- Underlay Mine is a **historic mine** 3km south of Tottenham.
- Workings developed to **98m**.
- Untested EM anomaly** below previous drilling and mining.
- Priority diamond drill target.**
- Second untested anomaly along strike to the east with gossan outcrop and historic Cu-Au rockchips.





# CAROLINA TO LARKINGS



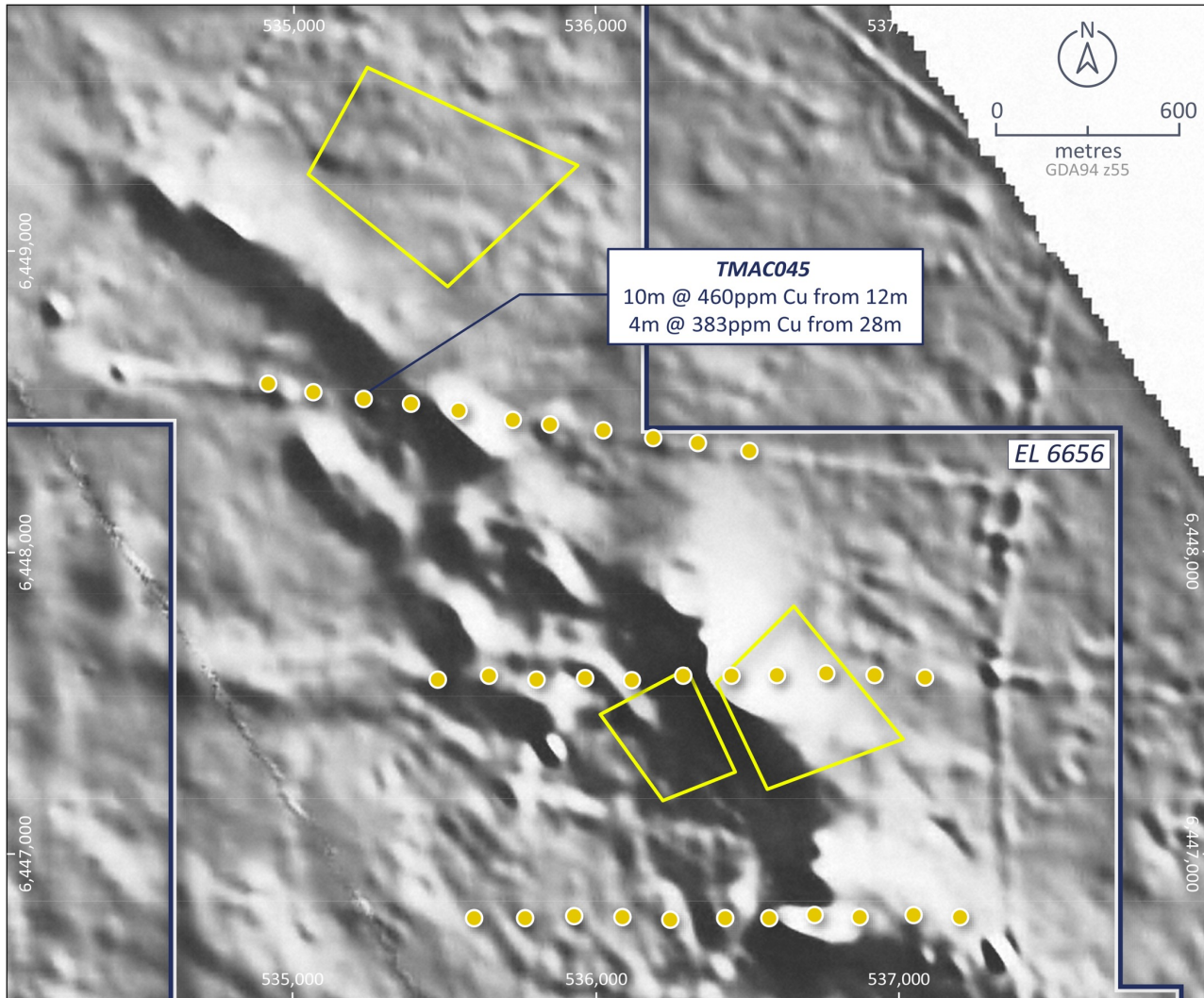
## UNDER EXPLORED POTENTIAL

- Continuous **8km** long zone of coincident magnetic and airborne EM anomalies to the north of the Carolina Deposit.
- Area largely under cover.
- Very **sparsely tested** with deepest hole (138m) abandoned before reaching target depth.

Total magnetic intensity background with interpreted EM anomalies (blue polygons). Yellow dots represent previous drill holes.



# BURDENDA



## EM & MAGNETIC ANOMALIES

- Untested and partly tested magnetic and electromagnetic (EM) **anomalies** under transported cover.
- Area along **trend from Carolina and Larkings** prospects.
- TMAC045 returned **elevated copper and zinc** with
  - 10m @ 460ppm Cu from 12m &**
  - 4m @ 383ppm Cu from 28m.**
- Drilling delayed by flooding**

*Reduced to pole magnetics, previous Mincor aircore drilling (yellow dots), airborne EM anomalies (yellow polygons).*



# INVESTMENT SUMMARY – WHY LOCKSLEY



## RESOURCE EXTENSIONS

A resource base of 9.86Mt @ 0.72% Cu, 0.22g/t Au has been established at the Tottenham Project, NSW. **Deposits remain open.**



## MULTIPLE NEW EXPLORATION TARGETS

Numerous strong untested EM anomalies near previous mining sites, often with associated enriched geochemistry.



## FOCUSED MULTI-SKILLED TEAM

Our board and management team has demonstrated stories of success, and will continue the focus on resource expansion.



## EXPANDING COPPER DEMAND

Strengthening demand due to clean energy being reliant on copper. Renewable power uses up to 12 times more copper than traditional generation  
([Copperalliance.org](http://Copperalliance.org))

**Extraordinary potential at Tottenham, within the central Lachlan Fold Belt, to be progressed via;**

- **Expanding** the existing resources at Mount Royal – Orange Plains and Carolina;
- Exploration of the numerous historic deposits to locate **additional resources**;
- Tenement wide exploration to locate **new deposits**;
- Possible acquisition of nearby stranded resources.





# LOCKSLEY RESOURCES LIMITED

ACN 629 627 144

 Locksley  
Resources

**Mr Stephen Woodham**

Executive Director

Locksley Resources Limited

M: +61 417 293 449

E: [woodhams@locksleyresources.com.au](mailto:woodhams@locksleyresources.com.au)

W: [www.locksleyresources.com.au](http://www.locksleyresources.com.au)



# TOTTENHAM MINERAL RESOURCE STATEMENT JUNE 2022

Deposit	Oxidation State	Tonnes (Mt)	Cu (%)	Au (g/t)	Ag (g/t)	Cu (kt)	Au (koz)	Ag (koz)
Carolina	Oxide	0.13	0.63	0.10	1.2	0.8	0.4	5.1
	Transitional	0.25	1.15	0.38	1.2	2.9	3.1	9.8
	Fresh	2.31	1.11	0.41	1.3	25.6	30.4	98.8
	<b>Subtotal</b>	<b>2.68</b>	<b>1.09</b>	<b>0.39</b>	<b>1.3</b>	<b>29.3</b>	<b>33.9</b>	<b>113.6</b>
Mt Royal - Orange Plains	Oxide	0.46	0.51	0.09	2.0	2.3	1.3	29.6
	Transitional	2.15	0.55	0.10	1.7	11.8	6.9	114.7
	Fresh	4.56	0.60	0.17	1.9	27.4	24.9	278.6
	<b>Subtotal</b>	<b>7.18</b>	<b>0.59</b>	<b>0.16</b>	<b>1.9</b>	<b>41.5</b>	<b>33.2</b>	<b>422.9</b>
<b>TOTAL</b>		<b>9.86</b>	<b>0.73</b>	<b>0.22</b>	<b>1.73</b>	<b>70.9</b>	<b>67.1</b>	<b>536.5</b>

Tottenham, inferred mineral resource estimate above a 0.3% Cu cutoff. Note discrepancies may occur due to rounding. Figures rounded to the nearest 10,000 tonnes, 0.01% Cu grade, 0.01 g/t Au grade, 0.1g/t Ag grade, 100 copper tonnes, 100 ounces gold, and 100 ounces silver. Ounces are troy.

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# HIGHLY PROSPECTIVE TOTTENHAM REGION

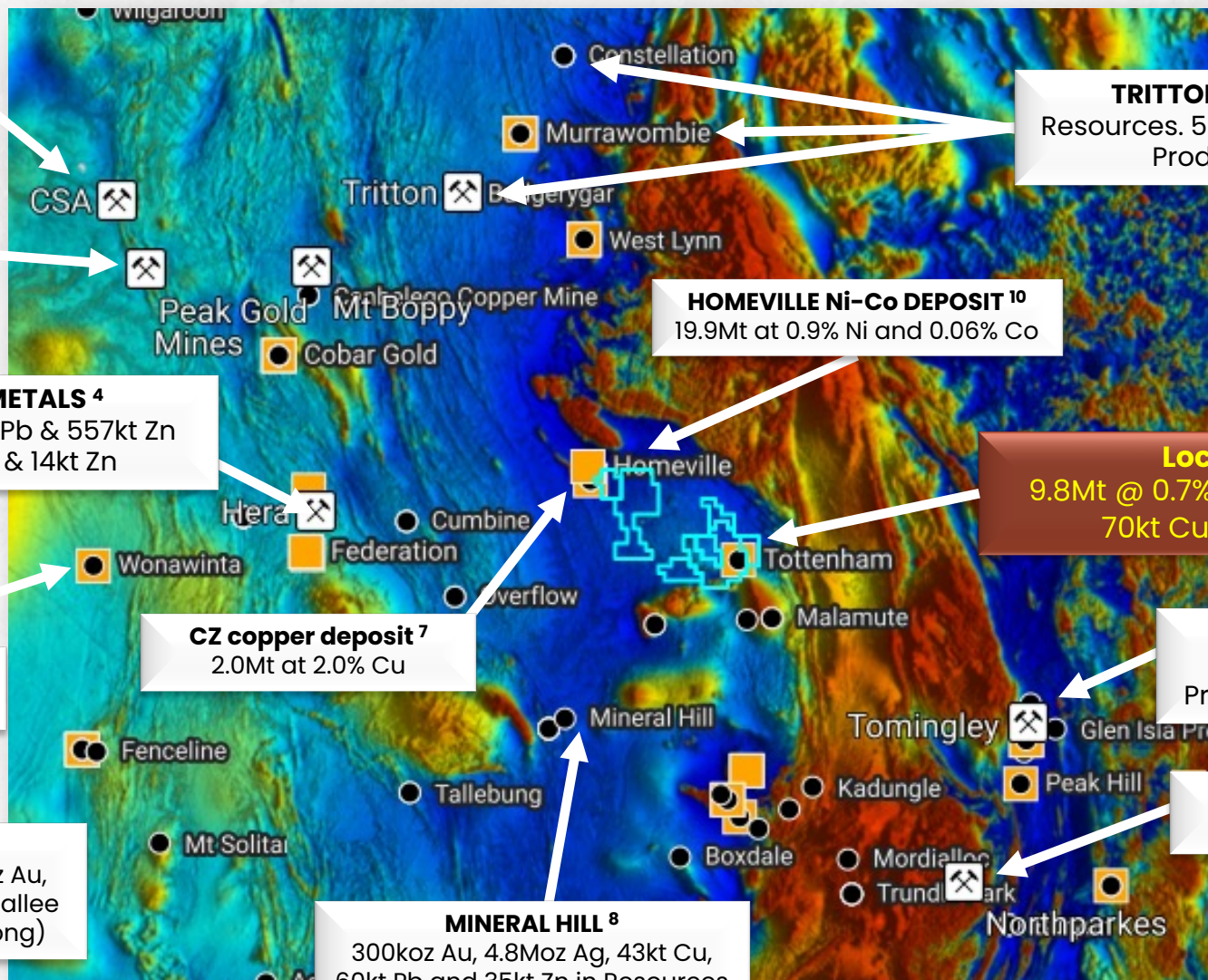
**CSA Mine<sup>2</sup>**  
 Resources 434kt Cu & 5.8Moz Ag  
 Production c. 50Ktpa Cu

**PEAK GOLD OPERATIONS<sup>3</sup>**  
 Resources 168koz Au, 2.7Moz Ag. FY21  
 Production – 51koz Au, 16kt Pb, 11kt Zn  
 & 5kt Cu

**HERA / FEDERATION GOLD, BASE METALS<sup>4</sup>**  
 Resources 246koz Au, 2.6Moz Ag, 342kt Pb & 557kt Zn  
 FY21 Production – 31koz Au, 10kt Pb & 14kt Zn

**WONAWINTA<sup>5</sup>**  
 Resources 52Moz Ag, 207kt Pb

**PEEL MINING LTD<sup>6</sup>**  
 134kt Cu, 295kt Zn, 180kt Cu, 21Moz Ag, 122koz Au,  
 140kt Pb & 288kt Zn in Resources (May Day, Mallee  
 Bull, Wagga Tank, Southern Nights and Wirlong)



**TRITTON COPPER OPERATIONS<sup>9</sup>**  
 Resources. 584kt Cu, 336koz Au & 5Moz Ag  
 Production FY22 – 19kt Cu

**HOMEVILLE Ni-Co DEPOSIT<sup>10</sup>**  
 19.9Mt at 0.9% Ni and 0.06% Co

**Locksley Resources<sup>1</sup>**  
 9.8Mt @ 0.7% Cu, 0.2g/t Au & 2g/t Ag for  
 70kt Cu, 66koz Au & 511koz Ag.

**CZ copper deposit<sup>7</sup>**  
 2.0Mt at 2.0% Cu

**Tomingley<sup>11</sup>**  
 Resource 27.01Mt @ 1.99g/t Au  
 Production Guidelines FY22 – 55koz Au

**MINERAL HILL<sup>8</sup>**  
 300koz Au, 4.8Moz Ag, 43kt Cu,  
 60kt Pb and 35kt Zn in Resources

**North Parkes<sup>12</sup>**  
 Resources 5.2Moz Au & 4.4Mt Cu



# REGIONAL PRODUCERS AND DEPOSITS

## **LOCKSLEY RESOURCES <sup>1</sup>**

[www.locksleyresources.com.au](http://www.locksleyresources.com.au)

ASX announcement – 1 April 2022

## **CSA MINE <sup>2</sup>**

[www.glencore.com.au](http://www.glencore.com.au)

2021 Reserves and Resources Report

## **PEAK GOLD OPERATIONS <sup>3</sup>**

[www.aureliametals.com.au](http://www.aureliametals.com.au)

2021 Annual Report

## **HERA / FEDERATION GOLD, BASE METALS <sup>4</sup>**

[www.aureliametals.com.au](http://www.aureliametals.com.au)

ASX announcement – 23 July 2021

## **WONAWINTA SILVER <sup>5</sup>**

[www.manukaresources.com.au](http://www.manukaresources.com.au)

Resources Report in 2021 Annual Report

## **PEEL MINING LTD <sup>6</sup>**

[www.peelmining.com.au](http://www.peelmining.com.au)

ASX announcement – 29 November 2021  
& 2021 Annual Report

## **CZ COPPER DEPOSIT <sup>7</sup>**

[www.helixresources.com.au](http://www.helixresources.com.au)

ASX announcement – 2 September 2021

## **MINERAL HILL GOLD, BASE METALS <sup>8</sup>**

[www.kingstonresources.com.au](http://www.kingstonresources.com.au)

ASX announcement – 18 November 2021

## **TRITTON COPPER OPERATIONS <sup>9</sup>**

[www.aerisresources.com.au](http://www.aerisresources.com.au)

ASX announcements – 3 August 2021, 1 December 2021 & 16 December 2021 & 2021 Annual Report

## **HOMEVILLE Ni-Co DEPOSIT <sup>10</sup>**

[www.helixresources.com.au](http://www.helixresources.com.au)

ASX announcement – 2 September 2021

## **TOMINGLEY GOLD <sup>11</sup>**

[www.alkane.com.au](http://www.alkane.com.au)

ASX announcement – 15 July 2021

## **NORTH PARKES GOLD, COPPER<sup>12</sup>**

[www.northparkes.com.au](http://www.northparkes.com.au)



# HISTORIC ASX ANNOUNCEMENTS

- EXPLORATION UPDATE ASX:LKY 12 September 2022
- AIRBORNE SURVEY COMPLETE ASX: LKY 30 June 2022
- EXPLORATION PRESENTATION AND UPDATE ASX:LKY 2 June 2022
- EXPLORATION UPDATE ASX: LKY 5 April 2022
- 9.8Mt RESOURCE AT TOTTENHAM ASX: LKY 1 April 2022
- QUARTERLY ACTIVITIES REPORT AND APPENDIX 5B ASX: LKY 31 January 2022
- EXPLORATION UPDATE ASX: LKY 19 January 2022
- TOTTENHAM DRILLING RESULTS SUPPORT RESOURCE DEFINITION ASX: LKY 25 November 2021
- GRANT OF EL9307 EXPLORATION UPDATE ASX: LKY 26 October 2021
- RC DRILLING COMMENCES AT THE TOTTENHAM COPPER PROJECT & EXPLORATION UPDATE ASX: LKY 30 September 2021
- LOCKSLEY RESOURCES EXPLORATION UPDATE DRILLING COMMENCES AT TOTTENHAM ASX: LKY 24 August 2021
- LOCKSLEY RESOURCES PROSPECTUS 6 July 2021
- TOTTENHAM JV MINERAL RESOURCES – ANNUAL UPDATE ASX: MCR 10 September 2018
- TOTTENHAM JV EXPLORATION DRILLING UNDERWAY ASX: MCR 9 March 2018
- TOTTENHAM COPPER JOINT VENTURE ADVANCES ASX: MCR 27 November 2017
- HIGH GRADE DRILLING RESULTS AT TOTTENHAM COPPER PROJECT, NSW ASX: MCR 21 September 2017
- TOTTENHAM JV DRILLING UNDERWAY ASX: MCR 3 July 2017
- TOTTENHAM EARN-IN AND JOINT VENTURE ASX: MCR 17 February 2016
- EXPLORATION UPDATE: COPPER AND GOLD AT TOTTENHAM ASX: MCR 31 March 2011
- HIGH-GRADE COPPER-GOLD INTERSECTED IN EARLY DRILLING AT TOTTENHAM, NSW ASX: MCR 17 February 2011
- MINCOR INTERSECTS WIDESPREAD COPPER MINERALISATION AT TOTTENHAM PROJECT, NSW ASX: MCR 9 October 2007