



# AUSMON RESOURCES LIMITED AGM PRESENTATION

## **MINERALS EXPLORATION PROJECTS**

Mark Derriman (Chief Technical Officer)

15<sup>th</sup> November 2021



# Disclaimer

Certain statements contained in this presentation, including information as to the future financial or operating performance of Ausmon Resources Limited and its projects, are forward-looking statements. Such forward looking statements:

- Are necessarily based upon a number of assumptions and estimates that, while considered reasonable by Ausmon Resources Limited, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies;
- Involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward-looking statements; and
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All forward-looking statements made in this presentation are qualified by the foregoing cautionary statements. Investors are cautioned that forward-looking statements are not guarantees of future performance and accordingly investors are cautioned not to rely on forward-looking statements due to the inherent uncertainty therein.

The information in this presentation relates to exploration results and is based on information compiled by Mr Mark Derriman, Member of the Australasian Institute of Geoscientist. Mr Derriman has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activities which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.

# Exploration Investment Strategy

## Targeted Commodities



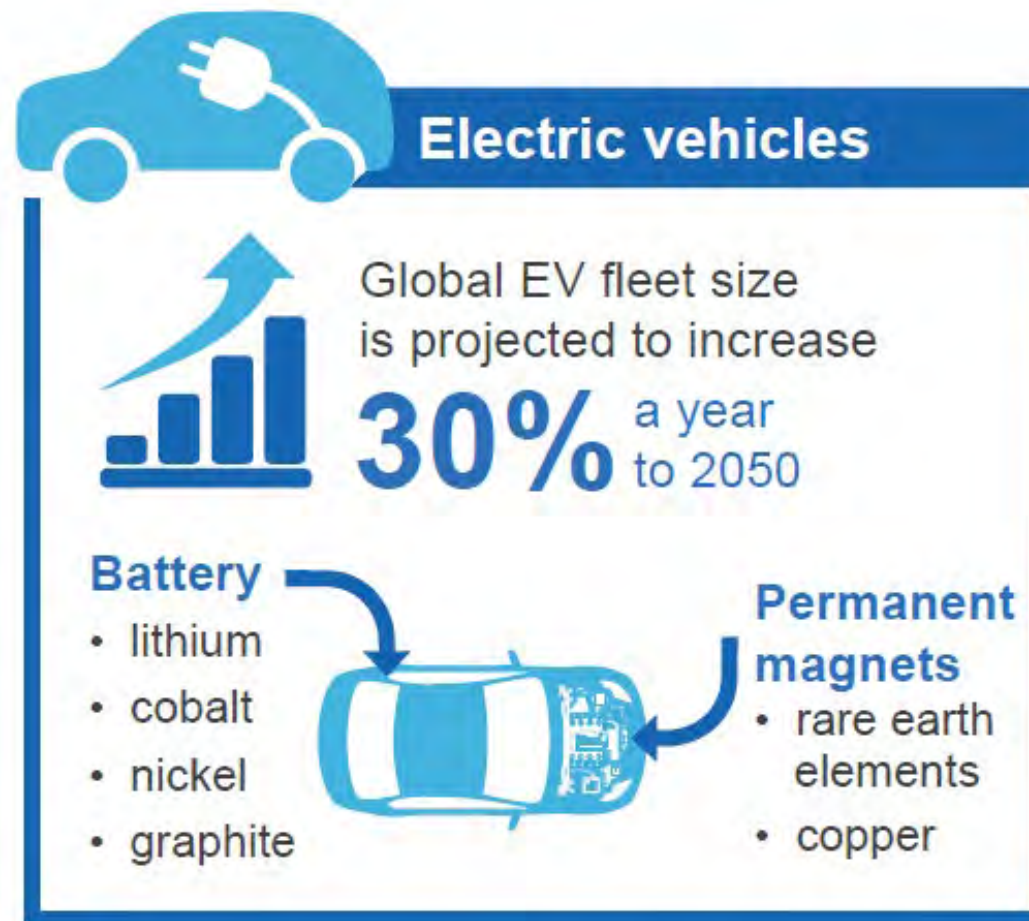
Over short and medium term explore for commodities with strong potential value accretion from high growth demand and/or supply constraints:

- Minerals that are critical components for renewable energy industry:  
e.g. cobalt, lithium, graphite and rare earths.
- Gold in uncertain and volatile times
- Commodities with diminishing global stockpile and rising demand  
e.g. nickel, chromium and copper

# Exploration Investment Strategy

## Electric Vehicle (EV) Commodities

Source: Commonwealth of Australia Department of Industry, Science, Energy and Resources



# Exploration Investment Strategy

## Cobalt



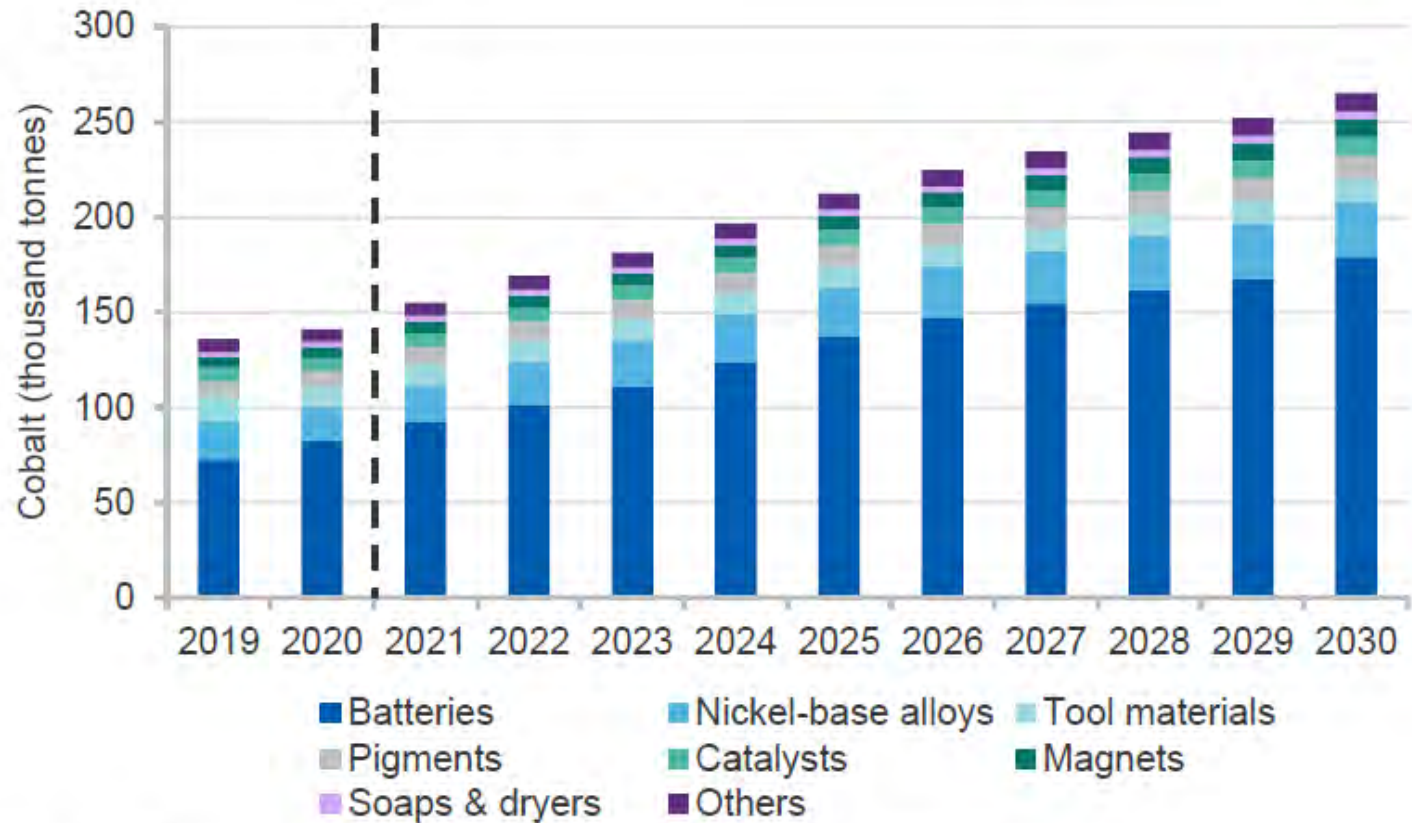
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Future of cobalt is very positive:

- EV boom expected from 2022 as consumers gradually overcome hesitancy to embrace the new technology and EV price approach parity to petroleum vehicles
- High production volume of batteries expected to increase total demand for cobalt even with reduced cobalt intensity in batteries
- Cobalt supply deficits forecast from 2023 rising substantially each year

# Exploration Investment Strategy

## Projected Cobalt Use



Source: Roskill (2021); Department of Industry, Science, Energy and Resources (2021)

# Exploration Investment Strategy

## Rare Earth Elements (REE)



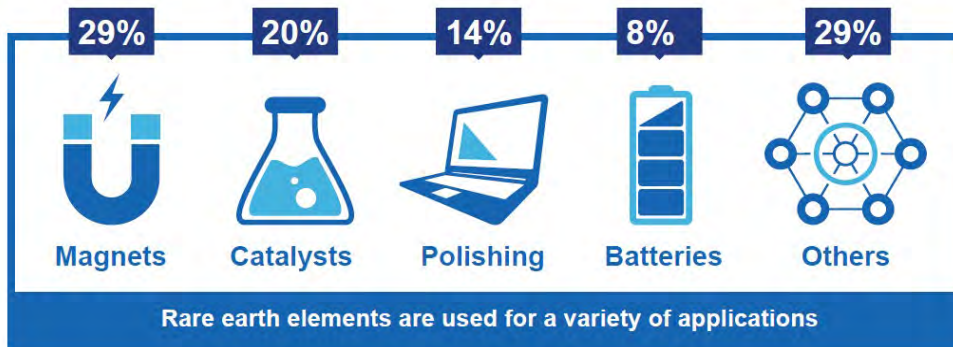
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## 2. Rare Earth Elements



### World supply dynamics

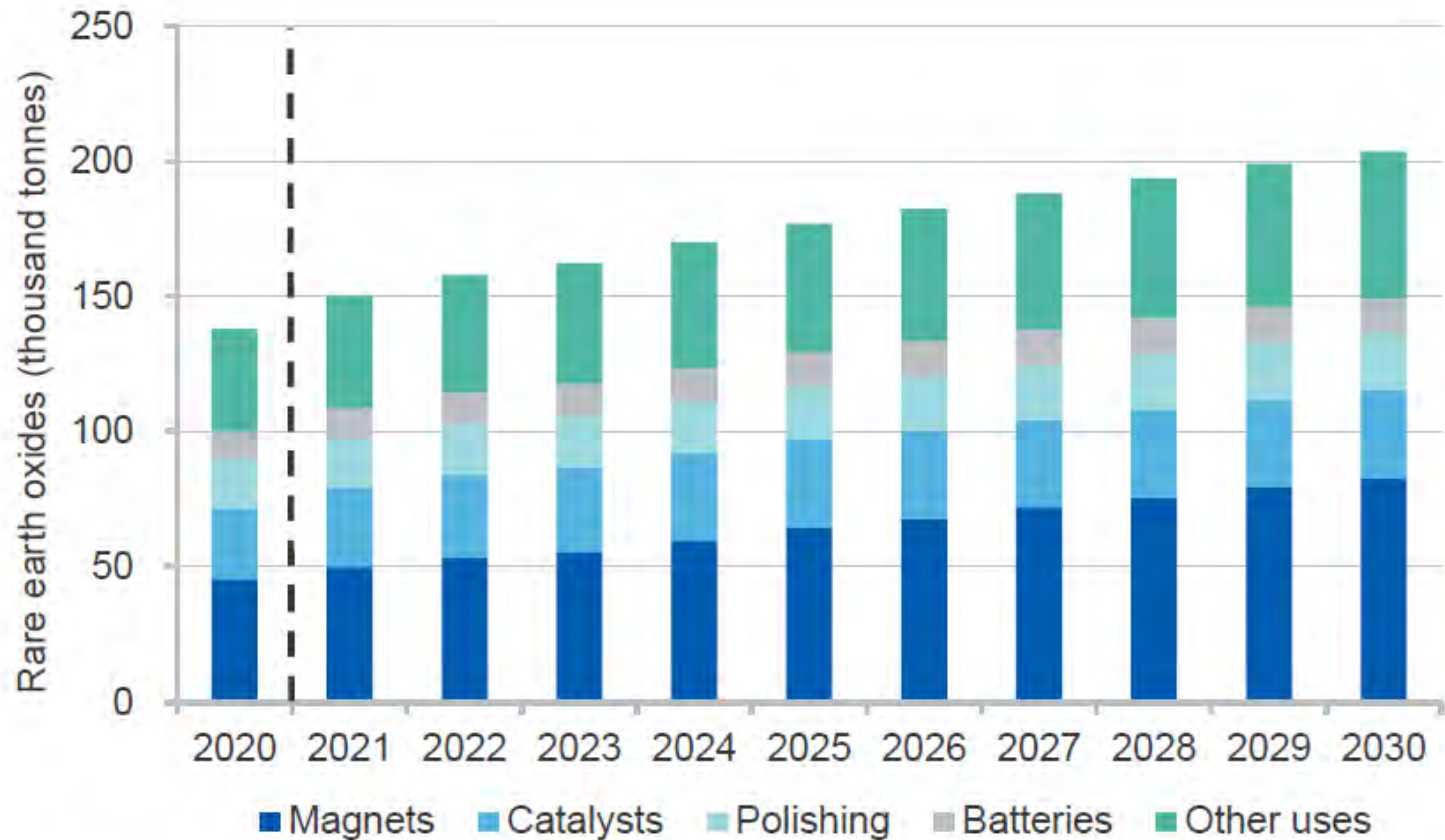
Country	2020 production (thousand tonnes rare earth oxides)	Share of world
China	140	57%
US	38	15%
Myanmar	30	12%
Australia	23	9%
Rest of world	18	7%



Source: Commonwealth of Australia Department of Industry, Science, Energy and Resources

# Exploration Investment Strategy

## Projected REE Use



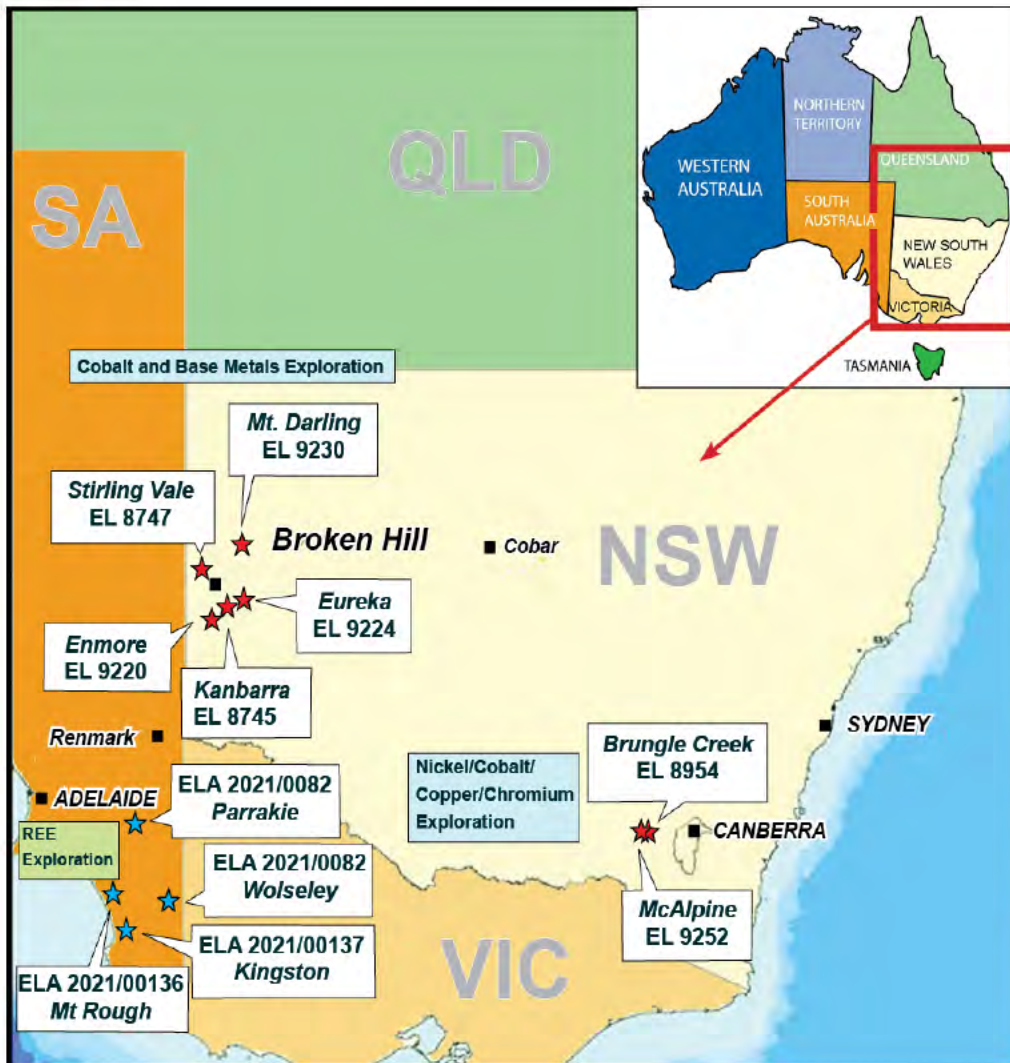
Source: Roskill (2021); Department of Industry, Science, Energy and Resources (2021)



NSW : 7 Granted Tenements - Cobalt & Base Metals  
 SA : 3 Tenement Applications - REE



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Historic McAlpine Cu Mine (Brungle Creek)



RC drilling at Eaglehawk (Kanbarra)



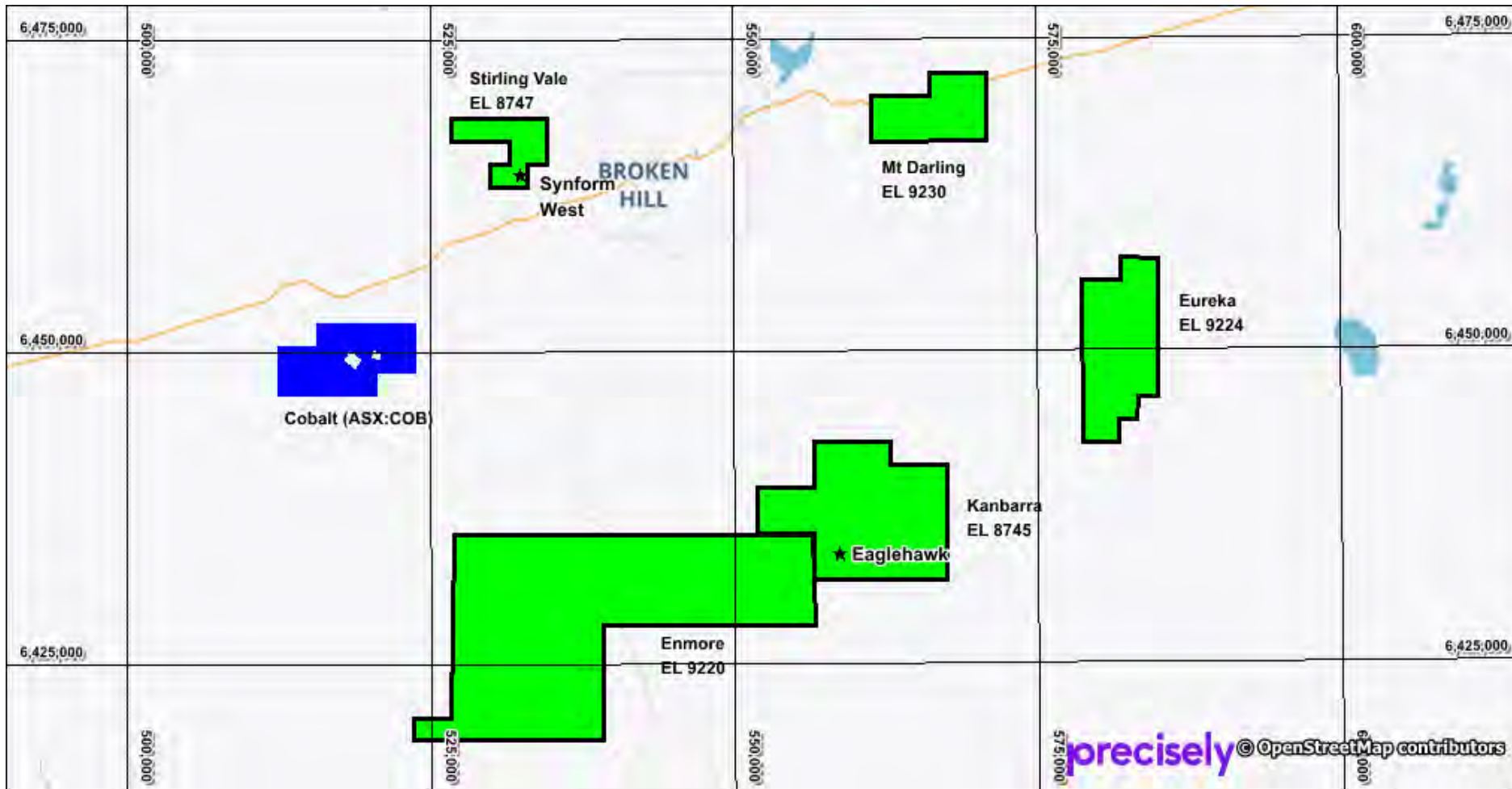


# Ausmon Tenement Register

Licence	Application	Name	Commodity	Applied Date	Grant Date	Expiry Date	Blocks	Approx km2
<b>New South Wales</b>								
<b>Broken Hill</b>								
EL 8745		Kanbarra	Cobalt/Base Metals	25/01/2018	15/05/2018	15/5/2024	45	144.0
EL 8747		Stirling Vale	Cobalt/Base Metals	25/01/2018	24/05/2018	24/05/2024	9	28.8
EL 9220		Enmore	Cobalt/Base Metals	15/02/2021	21/07/2021	21/07/2026	118	377.6
EL 9224		Eureka	Cobalt/Base Metals	15/02/2021	21/07/2021	21/07/2026	27	86.4
EL 9230		Mt Darling	Cobalt/Base Metals	15/02/2021	21/07/2021	21/07/2026	15	48.0
						<b>Total</b>	<b>214</b>	<b>684.8</b>
<b>Tumut</b>								
EL 8954		Brungle Creek	Cobalt/Nickel/Copper/Chromium	2/07/2019	11/03/2020	11/03/2026	19	60.8
EL 9252		McAlpine	Cobalt/Nickel/Copper/Chromium	11/03/2021	6/08/2021	6/08/2027	14	44.8
						<b>Total</b>	<b>33</b>	<b>105.6</b>
<b>South Australia</b>								
<b>Limestone Coast</b>								
	ELA2021/0082	Parrakie (North)	Rare Earth Elements	08/2021	Application	N/A		785.0
	ELA2021/0082	Wolseley (South)	Rare Earth Elements	08/2021	Application	N/A		213.0
	ELA2021/00136	Mt Rough	Rare Earth Elements	09/2021	Application	N/A		839.2
	ELA2021/00137	Kingston	Rare Earth Elements	09/2021	Application	N/A		939.3
						<b>Total</b>		<b>2,776.5</b>
						<b>Grand Total</b>		<b>3,779.9</b>



# Broken Hill Tenements



# EL 8747 Stirling Vale

## 2020 Synform West RC Drilling

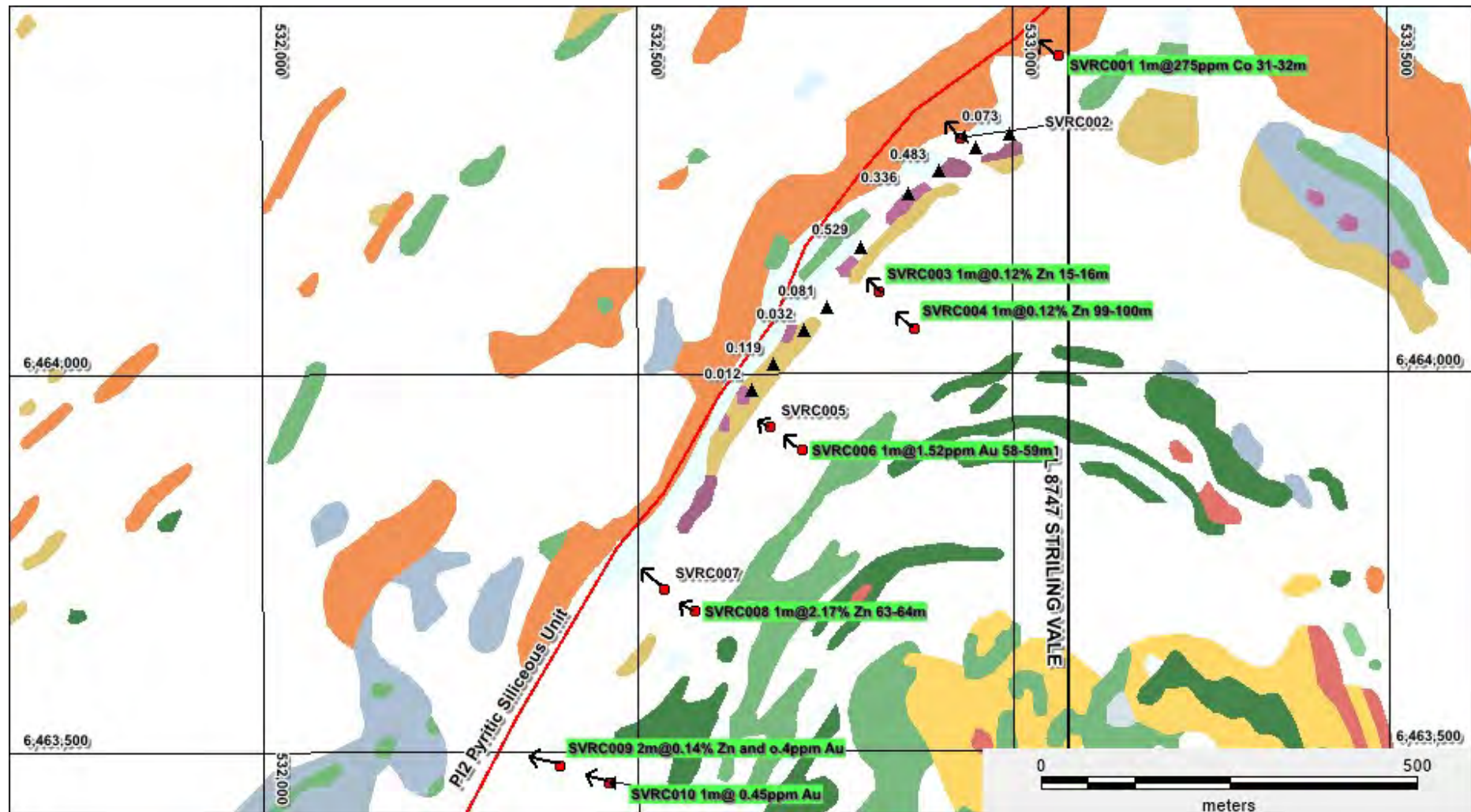


- Completed 10 RC drillholes for 1,151m targeting a cobaltiferous pyritic interval hosted by an albitic gneiss in a similar stratigraphic horizon as is being developed by Cobalt Blue Holdings (ASX: COB) to the south west of Ausmon's tenements.
- Significant intersections included:
  - ❖ *3 m @ 0.69 ppm gold from 56 m - 59 m in SVRC006 including 1 m @ 1.52 ppm gold from 57 m – 58 m.*
  - ❖ *1 m @ 2.17% zinc from 120 m - 121 m in SVRC010.*
  - ❖ *Several 1m zinc assays from 0.12% to 0.45% in drillholes SVRC003 to SVRC010*
- Stirling Vale tenement under evaluation for future exploration
- COB nearby has announced an Indicated/Inferred JORC 2012 Mineral Resource of 111Mt @ 889 ppm Co equivalent, completed Prefeasibility Study and successful construction of a pilot cobalt processing plant.

# Synform West significant drill intersections and outcrop geology



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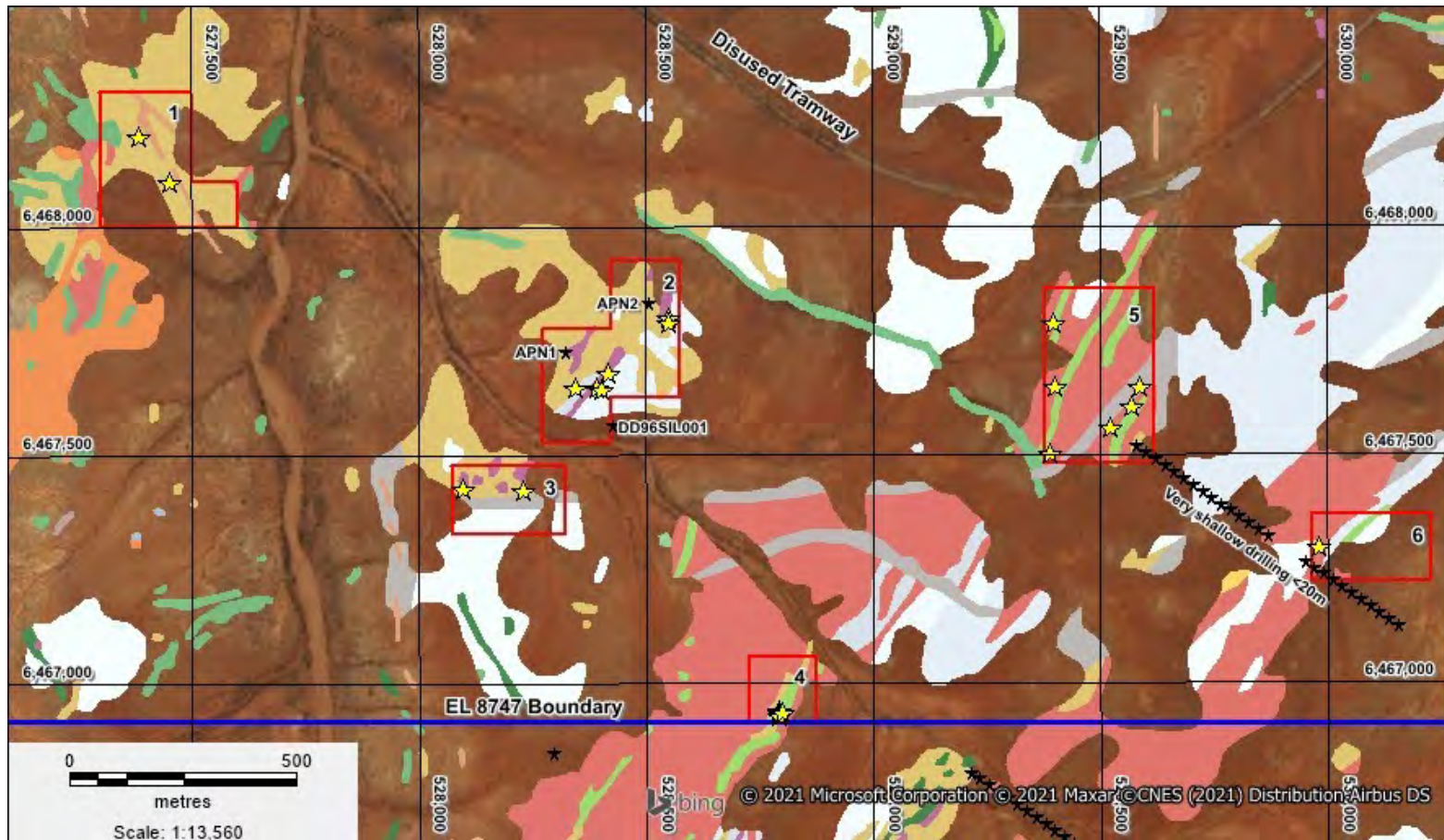


# EL 8747 Stirling Vale

## 2021 Porcupine Surficial Geochemical Sampling



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Six soil sampling grids and location of rock samples as yellow stars on outcrop geology



Completed a soil and rock sampling program in the western half of the Stirling Vale tenement at the Porcupine Prospect:

- 222 soil samples at 50 m intervals along E-W 100 m spaced lines collecting the <1 mm soil fraction and analysed by the Delta Vanta pXRF instrument.
- 23 rock samples analysed for gold and multi elements.
- A review of wider area of this western portion of Stirling Vale is ongoing albeit the identified soils anomalies were only in the Porcupine Prospect.
- Significant rock results include:
  - Copper – 10 samples > 200 ppm to 1.34%
  - Lead – 8 samples > 200 ppm to 0.60%
  - Zinc – 13 samples > 200 ppm to 1.495%

# EL 8745 Kambarra– Eaglehawk Prospect



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Surface expression of Eaglehawk  
Prospect and a hand sample of the  
outcropping gossan



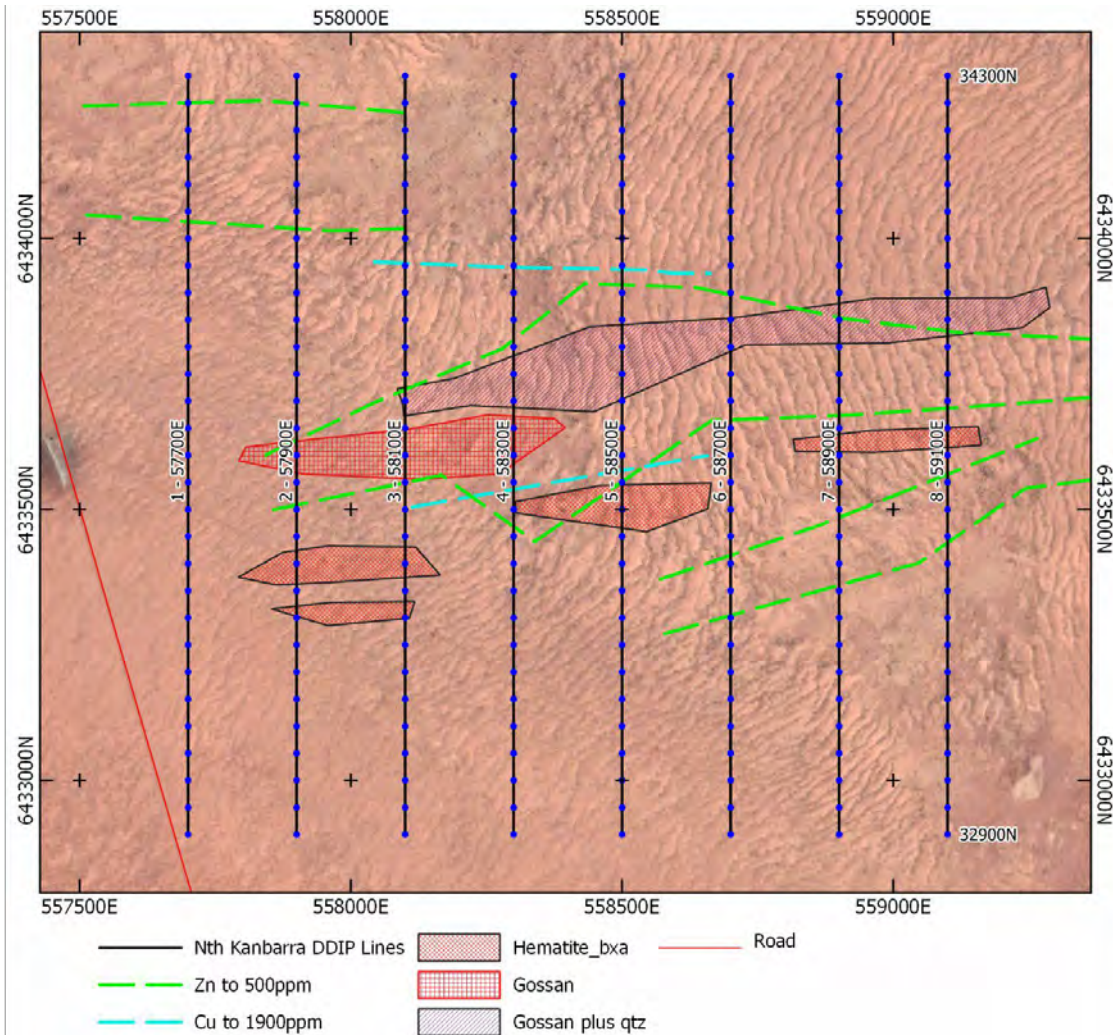


# EL 8745 Kambarra– Eaglehawk Prospect

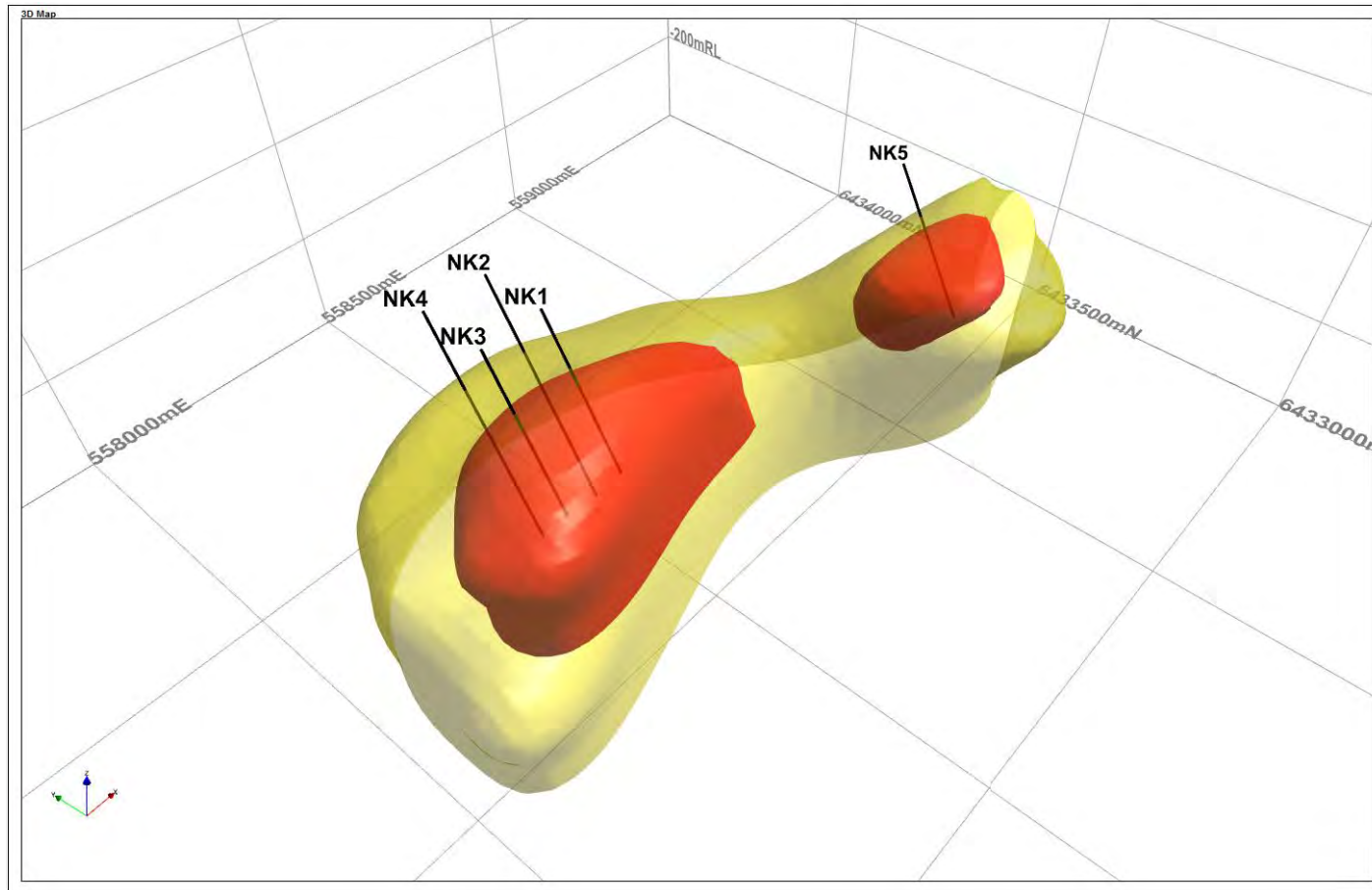
## IP Survey and geochemical/geological targets



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# EL 8745 Kambarra– Eaglehawk 3D IP Chargeability Anomaly and Drill Holes



Drilled: EHRC001(NK1), EHRCDD003(NK2),  
EHRC002(NK3) and EHRCDD004 (NK4)

# EL 8745 Kambarra– Eaglehawk RC Drilling



- 4 holes completed comprising 890 m of RC and 240 m of Diamond Core targeting an IP conductivity anomaly over a 1.4 km trend
- Interpreted that the significant 18 m zone of 5% -10% pyrite and other intervals with trace to 5% pyrite that the IP target had been intersected by holes EHRC002, EHRC001 and EHCDD003
- The original geochemical anomaly outlined a target zone to **1,900 ppm Cu** and **500 ppm Zn** compared to downhole intervals of **3 m @ 2,806 ppm Cu** and **1,748 ppm Zn**
- Significant intervals included:
  - EHCDD003: **3 m @ 2,806 ppm Cu** and **1,748 ppm Zn**  
including **1m @ 5,390 ppm Cu** and **1,415 ppm Pb**  
a broader zone of 18 m averaging 5-10% Pyrite (326 m – 344 m)
  - EHC002: **2m @ 1,075 ppm Cu** and **255 ppm Pb**



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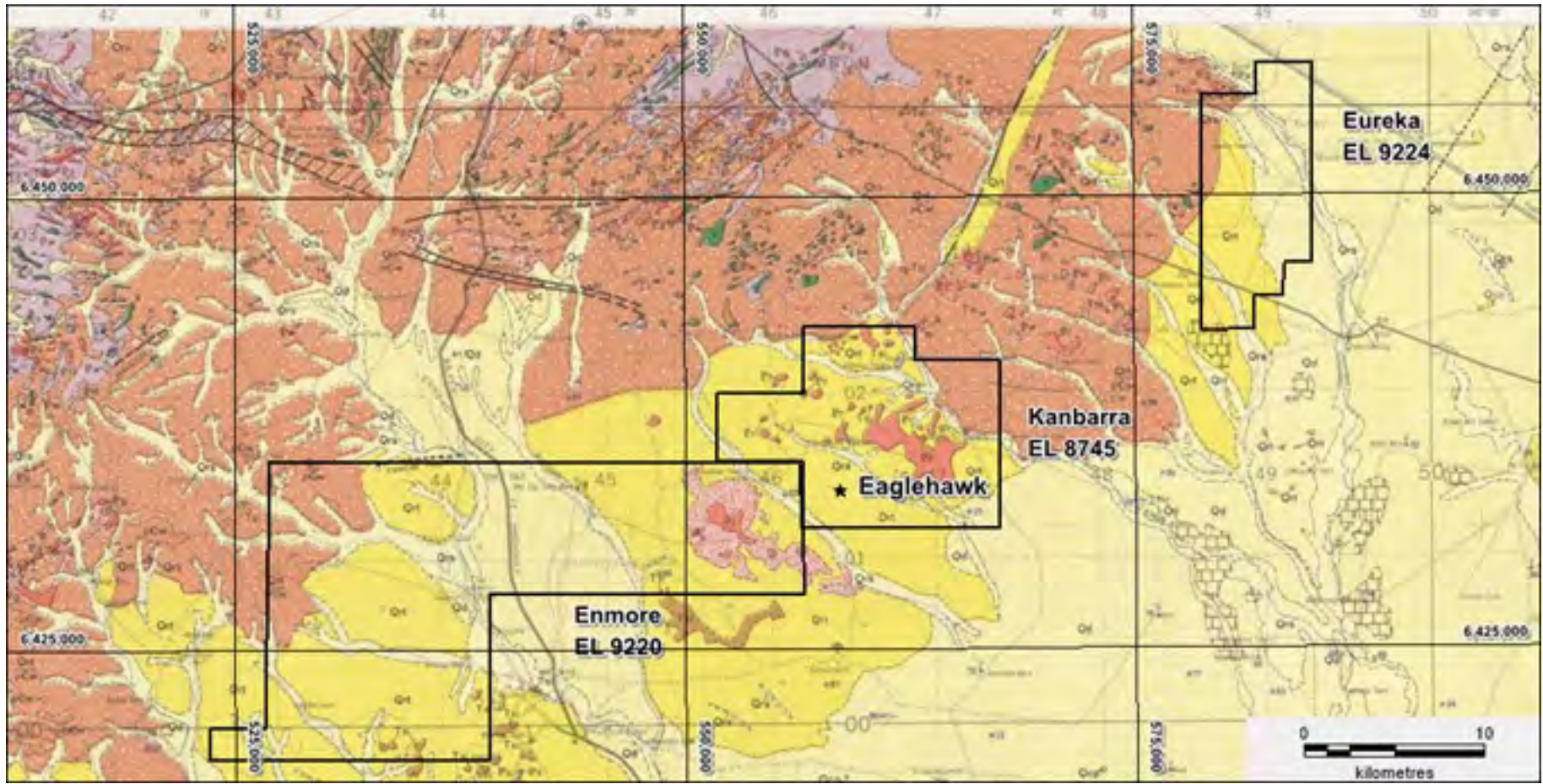
# Newly Granted Broken Hill Tenements EL 9220 Enmore, EL 9224 Eureka and EL 9230 Mt Darling

- The Company has expanded its Broken Hill footprint with 3 newly granted tenements to the east and south east of Broken Hill.
- The areas are prospective for Broken Hill style copper, lead and zinc, Iron Oxide Copper Gold (IOCG) and cobaltiferous pyrite mineralisation hosted by albitic gneiss i.e. Cobalt Blue style
- All areas are covered by recent unconsolidated sediments that has been a deterrent to surficial rock and soil sampling and there has been very little historic drill testing
- Respected WA based Geophysical Consultancy Southern Geoscience merged all open file geophysical datasets into seamless products with lithostructural interpretations and targeting being carried out in house for field based work in 2022

# EL 9224 Eureka and EL 9220 Outcrop Geology



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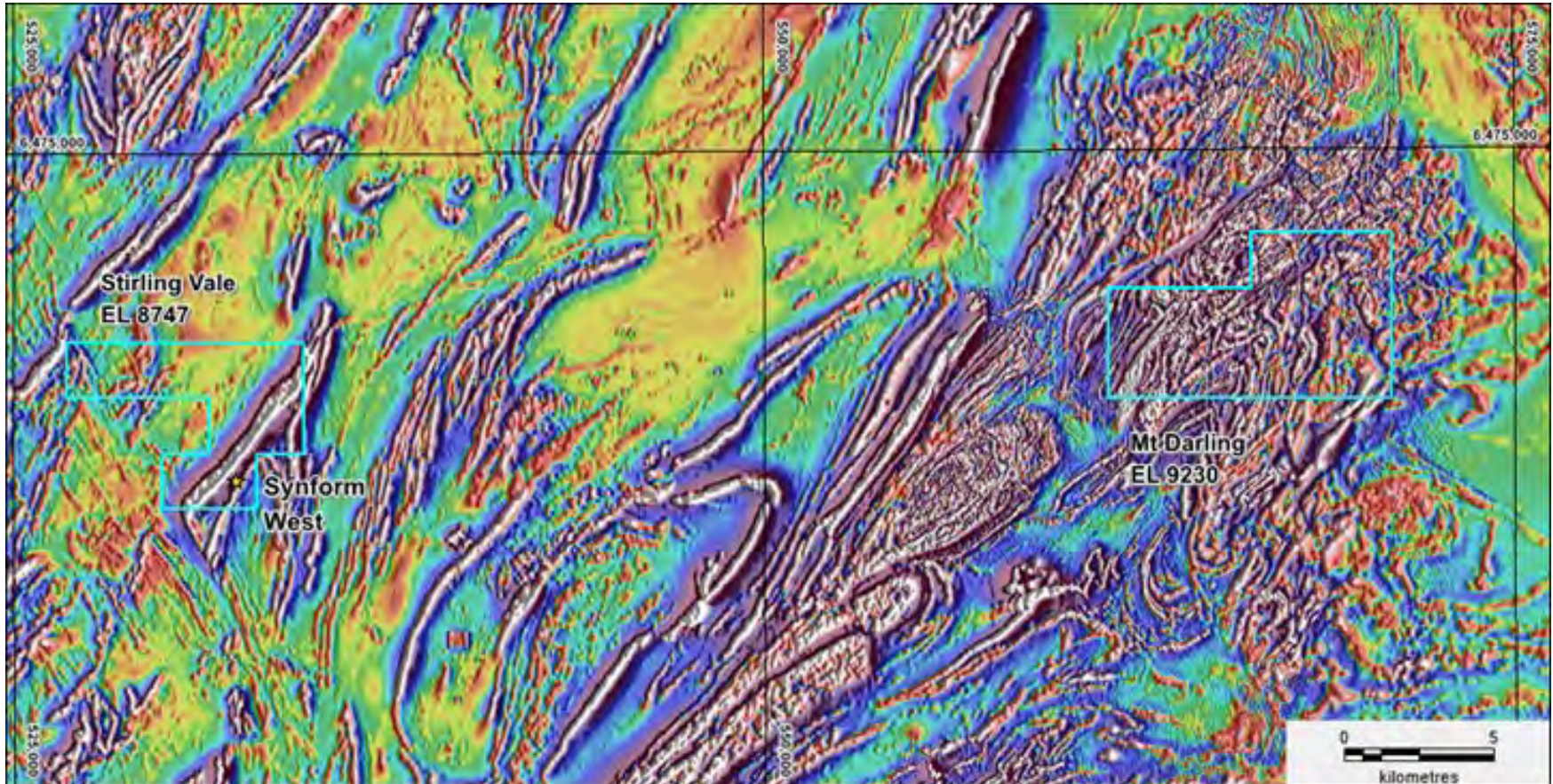


Transported cover sediments shown in shades of yellow

# EL 9230 Mt Darling Magnetic Image



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Aeromagnetic Image showing folded stratigraphy at both Mt Darling and Stirling Vale – Most of Mt Darling is covered by transported sediments with the aeromagnetics providing targets beneath the sediments

# Broken Hill Tenements

## Next Phase of Exploration



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### **EL 8747 Stirling Vale**

- Review results from the RC drilling program
- Use the spectral mineralogy as a possible “vector” to deeper mineralised systems
- Evaluation of historical drill testing of conductive targets to the west of the Synform West Prospect and follow up of surface gossan samples in the same area

### **EL 8745 Kanbarra**

- Review results from the RC drilling program
- Review all historic exploration outside the areas tested to date
- Use results from the IP and RC drilling results at Eaglehawk to assist ongoing exploration at Enmore and Eureka tenements

# Broken Hill Tenements

## Next Phase of Exploration



AUSMON RESOURCES  
LIMITED

### **New ELs Enmore, Eureka and Mt Darling**

- Finalise compilation of all historic exploration
- Based on the lithostructural interpretation and a review of the regolith/geological mapping select targets for first pass exploration
- Field visit to selected targets in conjunction with landholder meetings
- Determine the appropriate initial sampling strategy for each target area i.e. surface sampling (soils, laterite lag etc) or shallow drilling traverses





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# Tumut Tenements

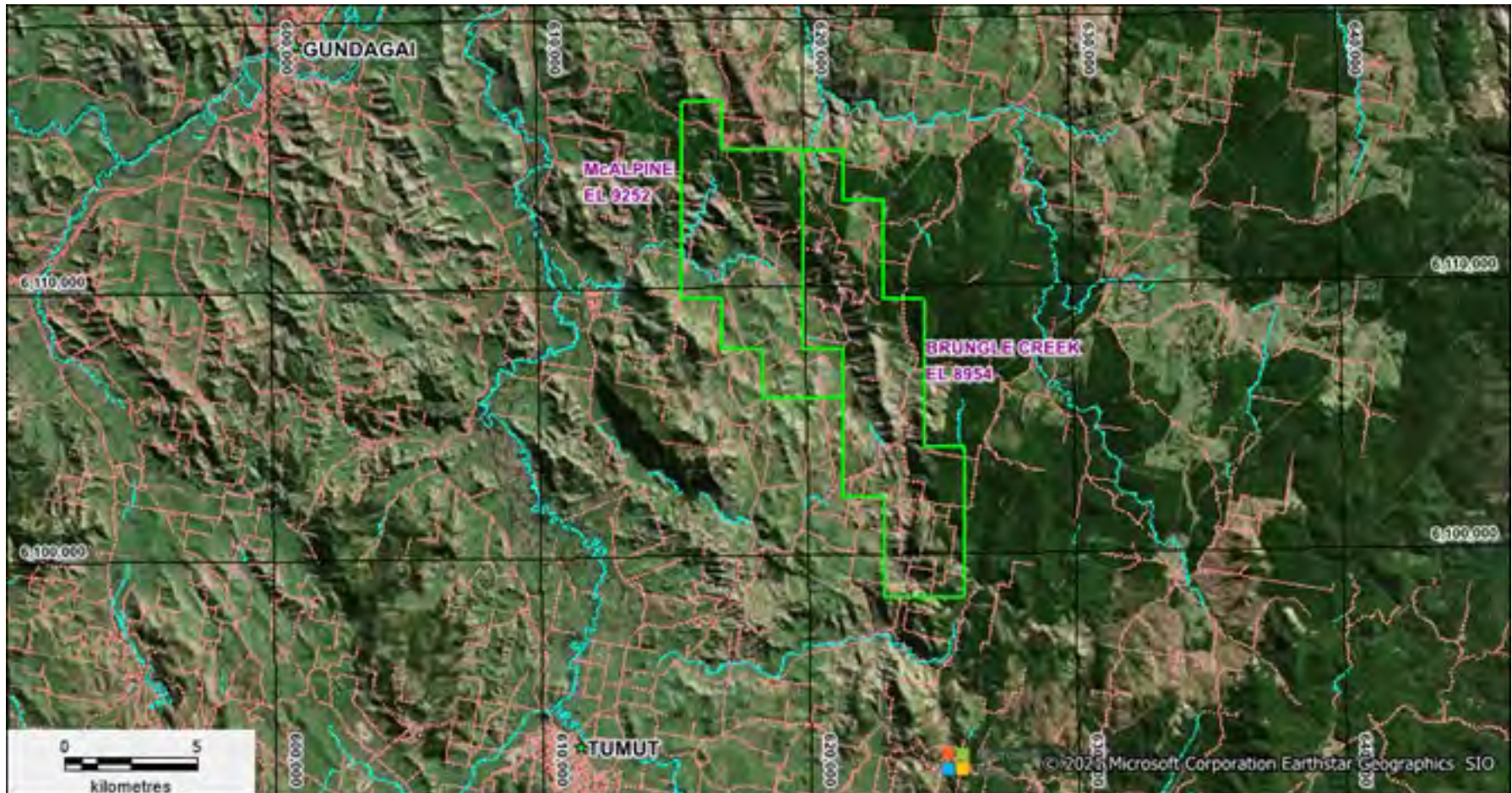
azurite (copper carbonate) from the  
historic McAlpine Copper Mine



# EL 8954 Brungle Creek and EL 9252 McAlpine



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# Brungle Creek and McAlpine Projects

## Copper/Chromite/Cobalt/Gold/Nickel



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- The Coolac Serpentinite Belt hosts known undeveloped cobalt resources at Thadunggra
- The southern portion of the Coolac Serpentinite Belt had very little modern exploration and “no drilling”
- The area is known for small historical chromite and copper mining operations
- Historical elevated Au assay of 3.763 ppm in granites to the east of the Coolac Serpentinite in Brungle Creek and associated with zones of north-south faulting in addition to historic assays in volcanics and sediments within the McAlpine tenement
- Historic Cu assays along the Coolac Serpentinite are also elevated
- The Coolac Serpentinite Belt is prospective for Cu/Cr/Ni/Co and the adjacent volcanic/sedimentary and granitic rocks are prospective for Au

# EL 8954– BRUNGLE CREEK

## Mineral Occurrences



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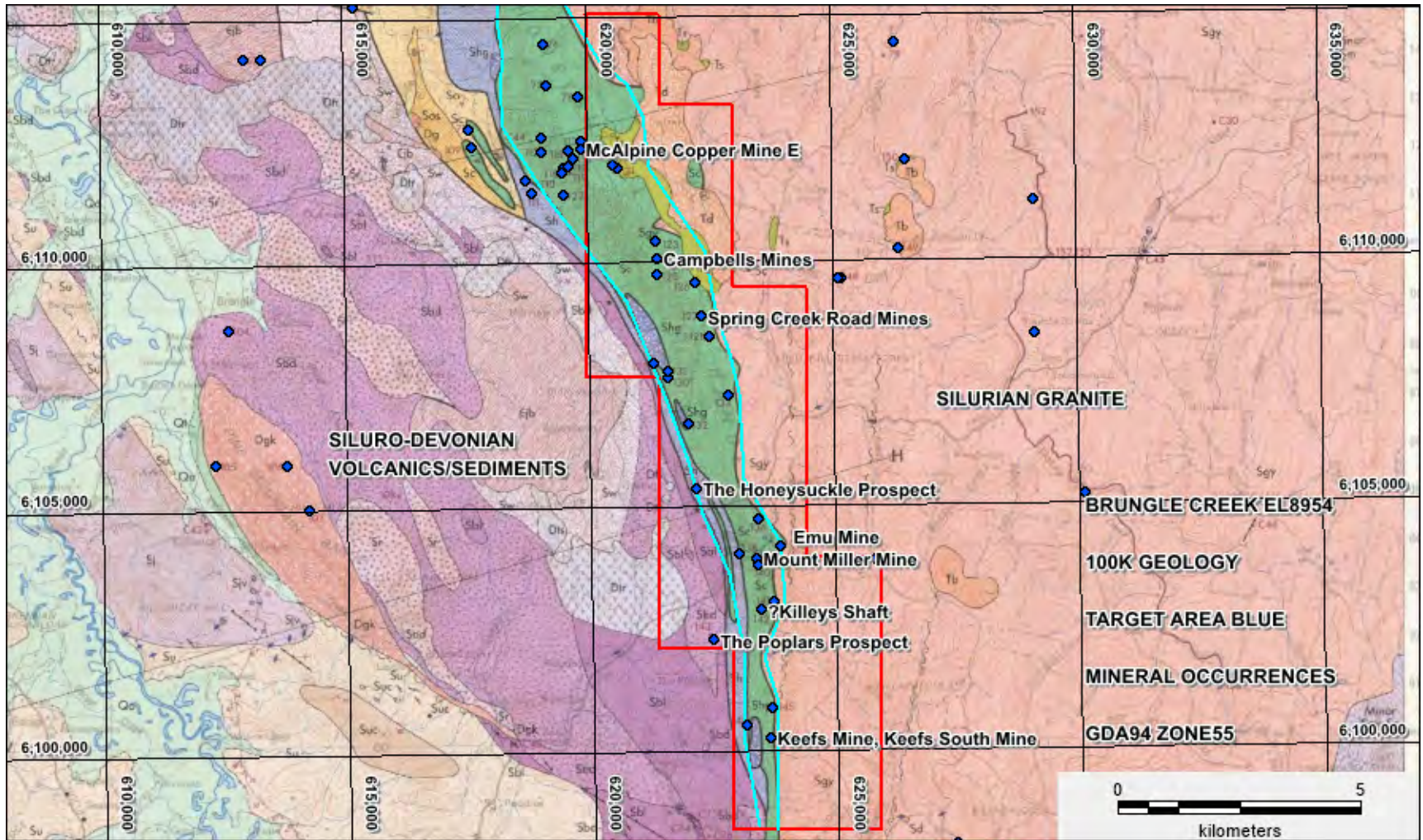
Several prospects have scattered shallow pits and shafts with historic data:

- **Geary's Prospect** – Rock assays to 20.4% Cu and 166 ppm Ag
- **Poplars Prospect** – Quartz tourmaline veins in dacite, average assays of 34.23% As, 53.23 ppm Ag and 0.21 ppm Au
- **Emu Prospect** – Pod like chromite lenses with assays between 31.1% and 52.5% Cr
- **Kileys** – Shaft to 15 m with surface mullock assays 12.3% Cu
- **McAlpines** – 38 t production for 4.06 t Cu

# EL 8954— Brungle Creek Geology/Prospects



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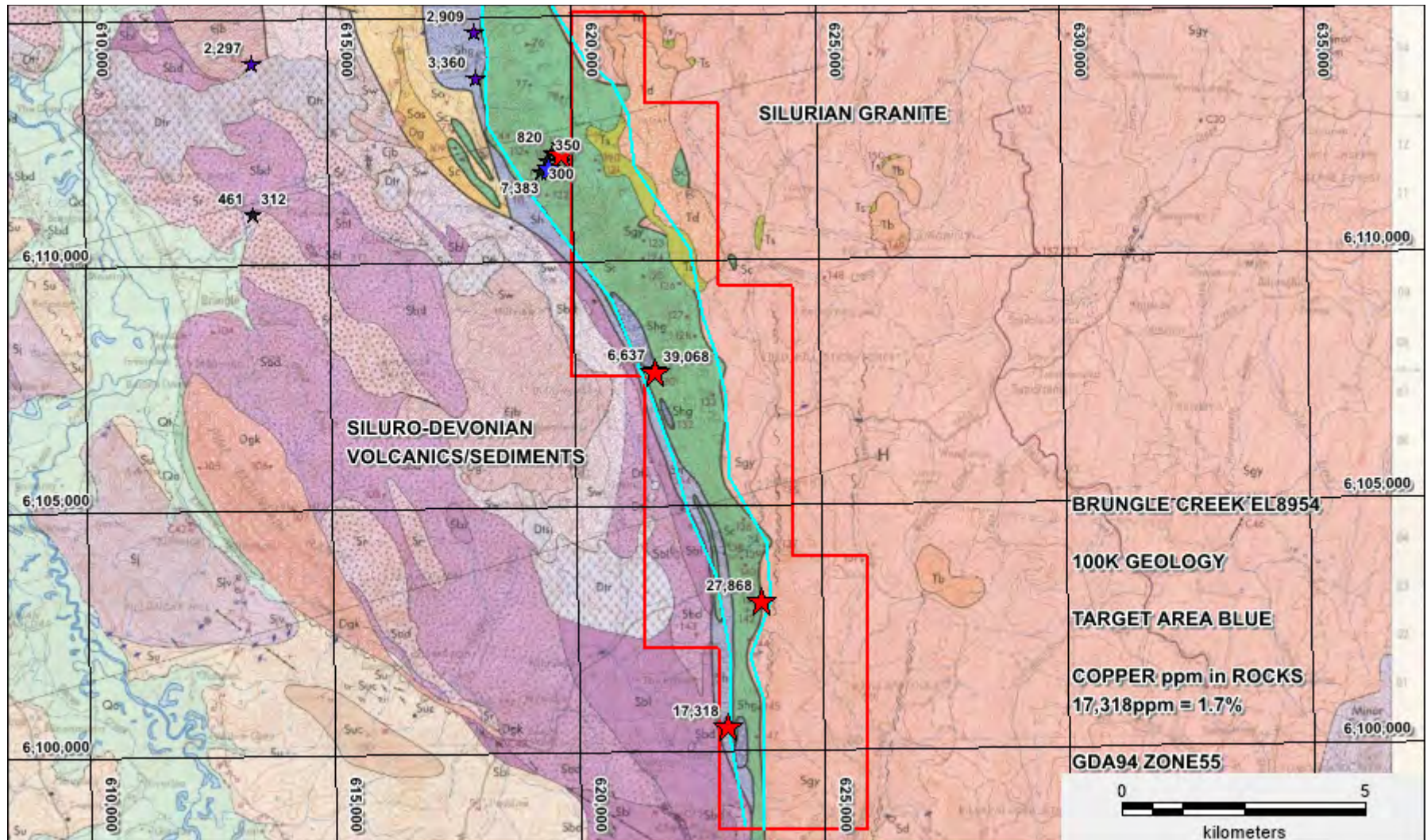


# EL 8954 Brungle Creek

## Historic Cu ppm Rock Assays



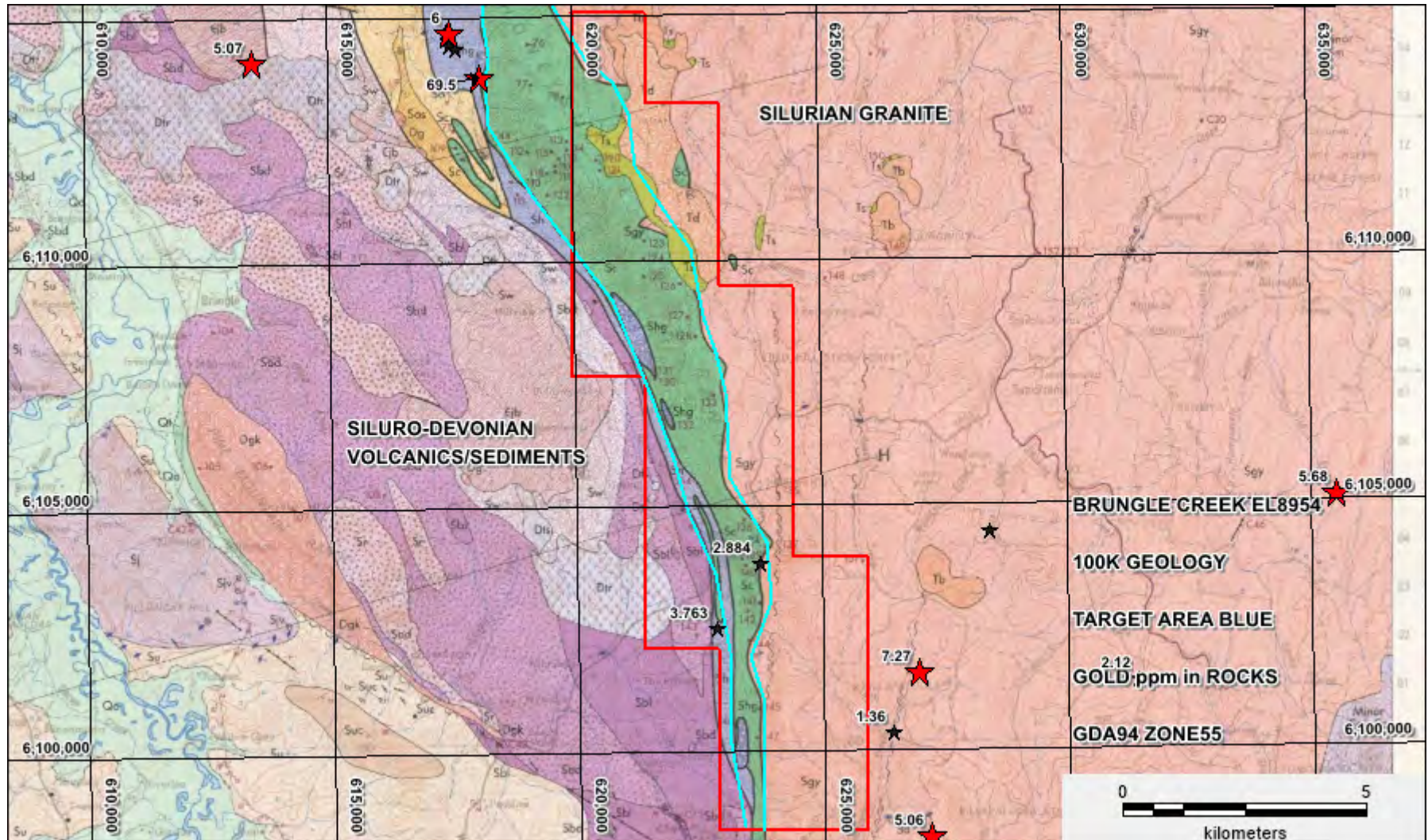
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# EL 8954 Brungle Creek Historic Au ppm Rock Assays



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# EL 8954– Brungle Creek Exploration Results



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- In March 2021 completed initial exploration phase of exploration with sampling of known prospects and meetings with landholders who were all supportive of our exploration
- A total of 35 rock samples were collected along with geological observations at each site. All historic sites were not visited due to landowner unavailability
- **Campbells Prospect** – extensive working in serpentinitised ultramafic and visible chromite mineralisation to 0.4% chromium and 0.5% nickel
- **Spring Creek Road Prospect** – shallow workings in serpentinitised ultramafic with nickel to 0.6% and chromium to 0.14%
- **Honeysuckle Prospect** – Felsic intrusives and metasediments adjacent to the Coolac Serpentinite Belt with up to 1% pyrite in the felsic units with copper to 426 ppm and sulphur to 0.42% associated with the pyrite sample
- **West Emu Prospect** – historic workings with chromium to 5.46% and nickel to 0.6%. Given the high tenor of the chromium assay, soil sampling will be the next exploration phase



# EL 8954 Brungle Creek Chromite Samples in Serpentinised Ultramafic



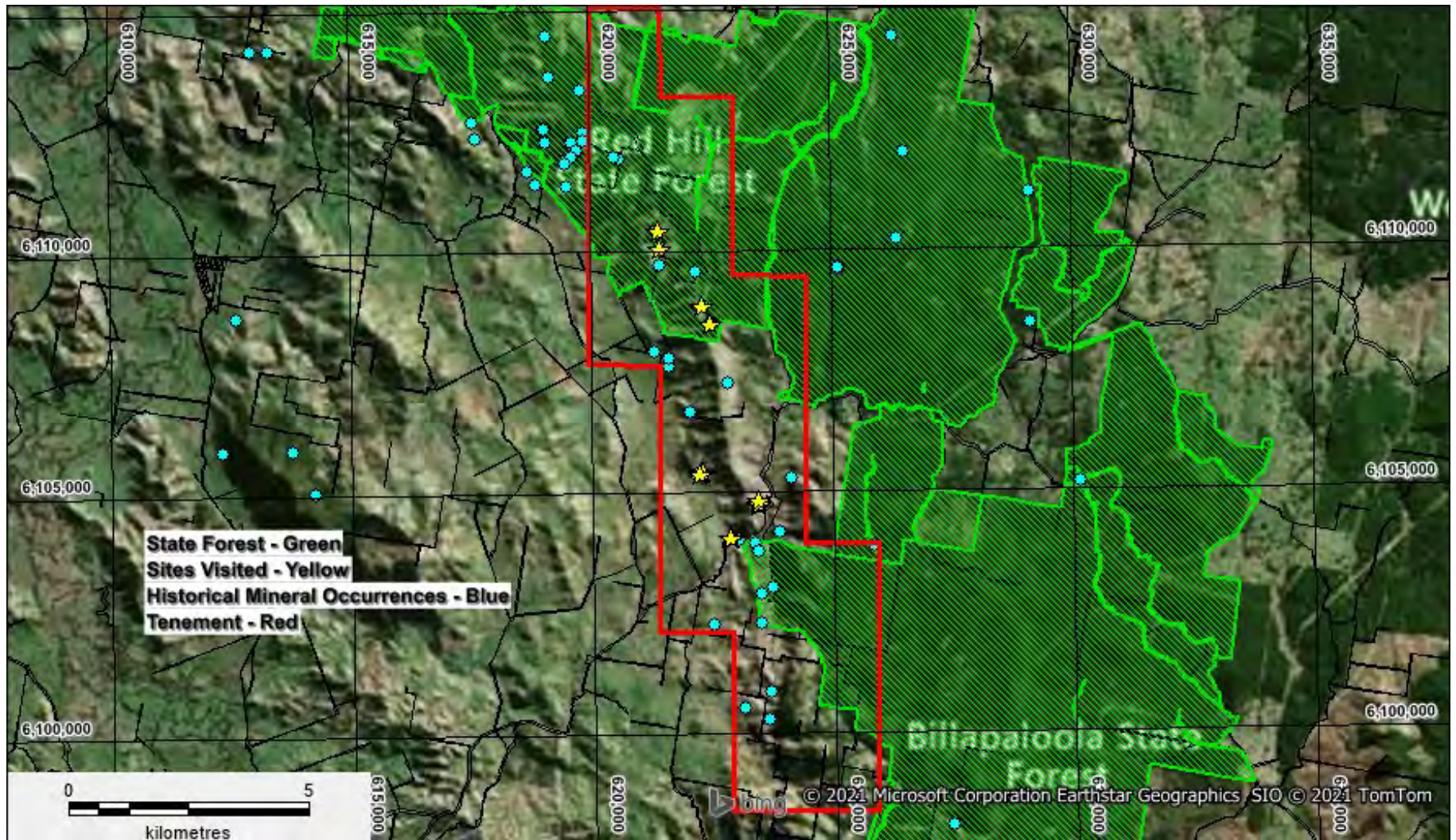
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# EL 8954 Brungle Creek Sampling Sites



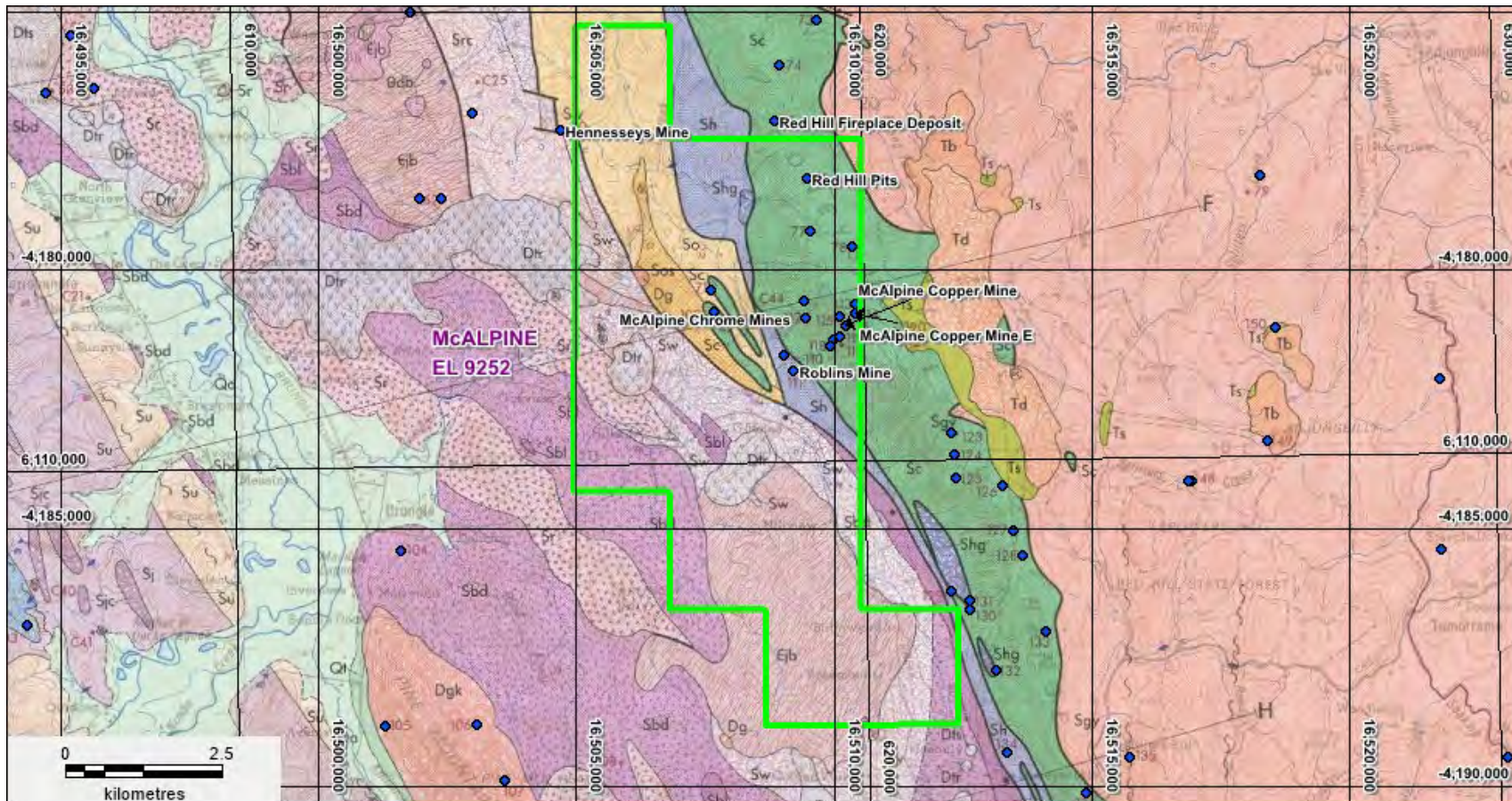
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# EL 9252– McAlpine Geology/Prospects



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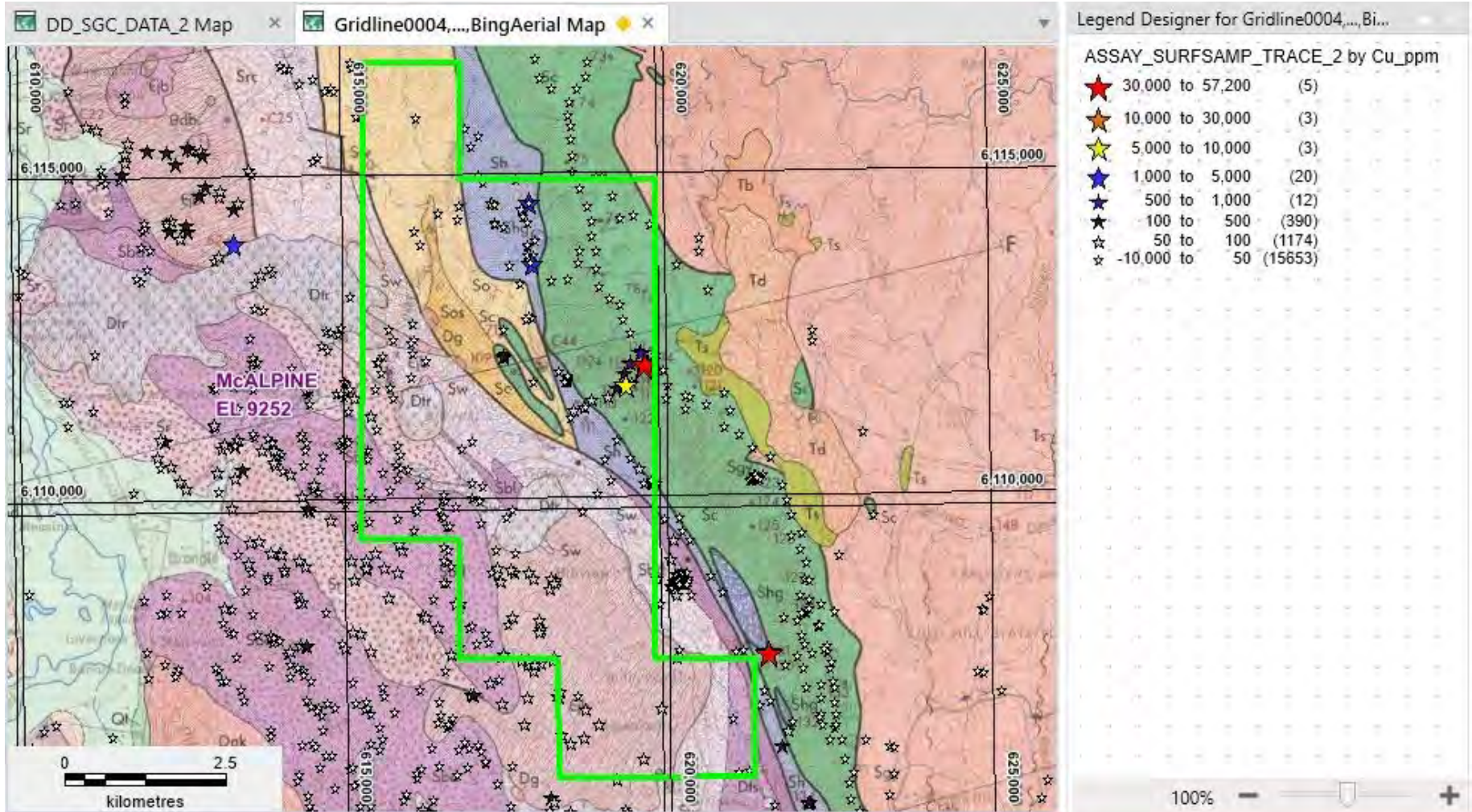




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# EL 9252 McAlpine

## Historic Cu ppm Rock Assays

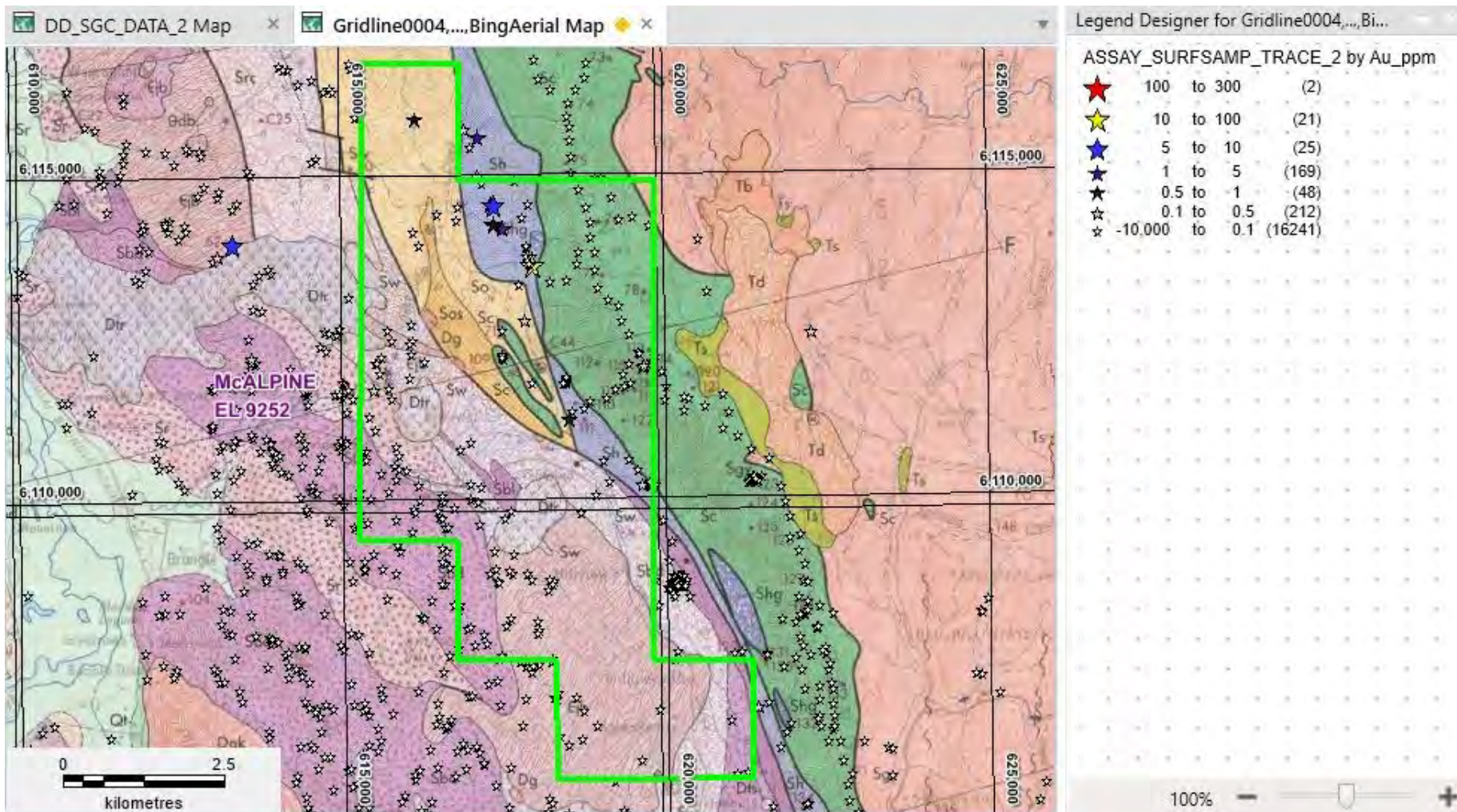


# EL 9252 McAlpine

## Historic Au ppm Rock Assays



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# Brungle Creek and McAlpine Remote Sensing



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- WA based company Earthscan was contracted to acquire, process and interpret Satellite Imagery with a view to targeting areas of alteration and possibly mineralisation

On next slide:

- The image on the left is a processed image comprising high spectral resolution satellite ASTER and high spatial resolution satellite Pleiades
- The image on the right is the alteration targets generated and known historic mineral occurrences

# Brungle Creek and McAlpine Remote Sensing

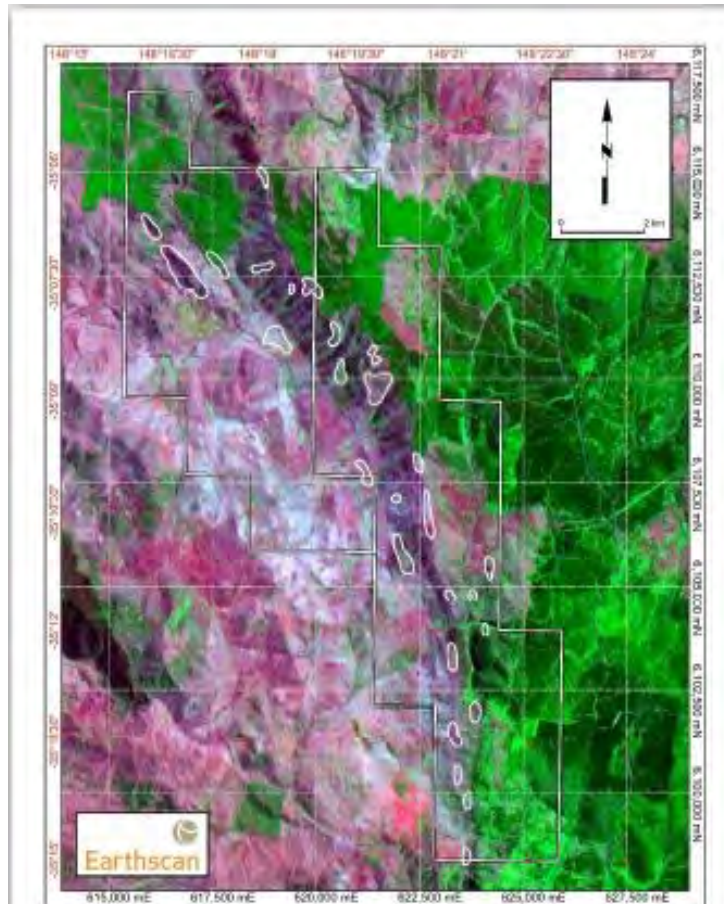


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Earthscan were contracted to process and interpret remote sensing imagery with a view to targeting areas of alteration

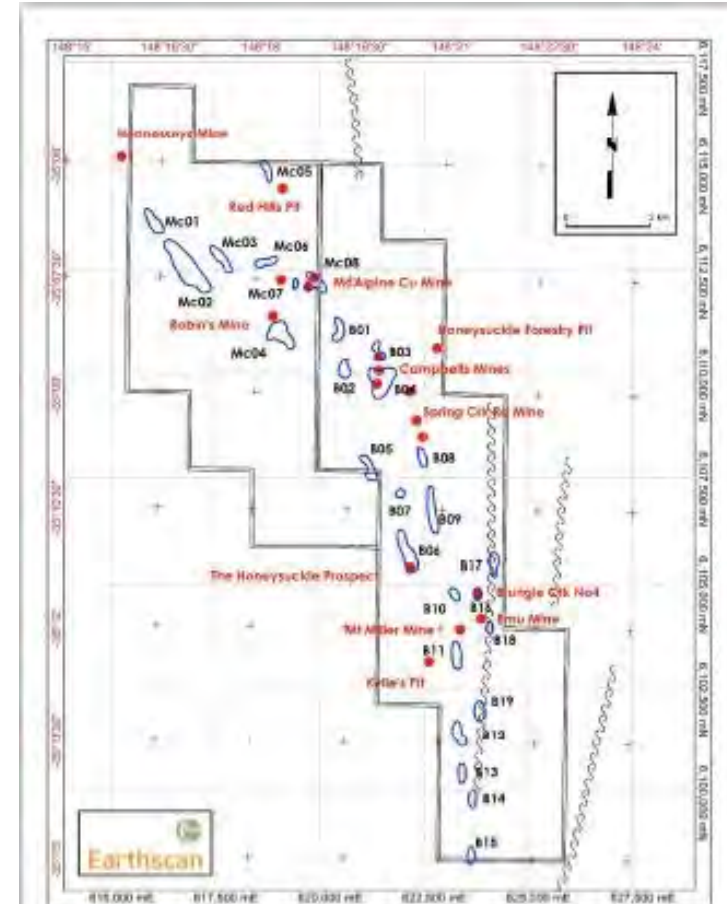
Left image:  
Processed data with targets

Right image:  
Targets and historical workings



GDA 94 - MGL44 AUSMON RESOURCES October 2001

BRUNGLE CREEK & McALPINE TENEMENTS - N.S.W.  
ALTERATION INTERPRETATION TARGETS  
from  
LANDSAT 8, ASTER and PLEIADES IMAGERY  
ASTER BANDS 731



GDA 94 - MGL44 AUSMON RESOURCES October 2001

BRUNGLE CREEK & McALPINE TENEMENTS - N.S.W.  
ALTERATION INTERPRETATION TARGETS  
from  
LANDSAT 8, ASTER and PLEIADES IMAGERY

# Brungle Creek

## Next Phase of Exploration



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LIMITED

- Compile and review all historic exploration including drilling
- Soil and rock sampling of Priority 1 target areas defined from the Remote Sensing study
- Visit historic prospects not inspected in the initial field visit
- Further meetings with landholders



# SA : Limestone Coast



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NW SE Oriented Sand Dunes adjacent to the SA coastline

# SA : Limestone Coast

## REE Exploration

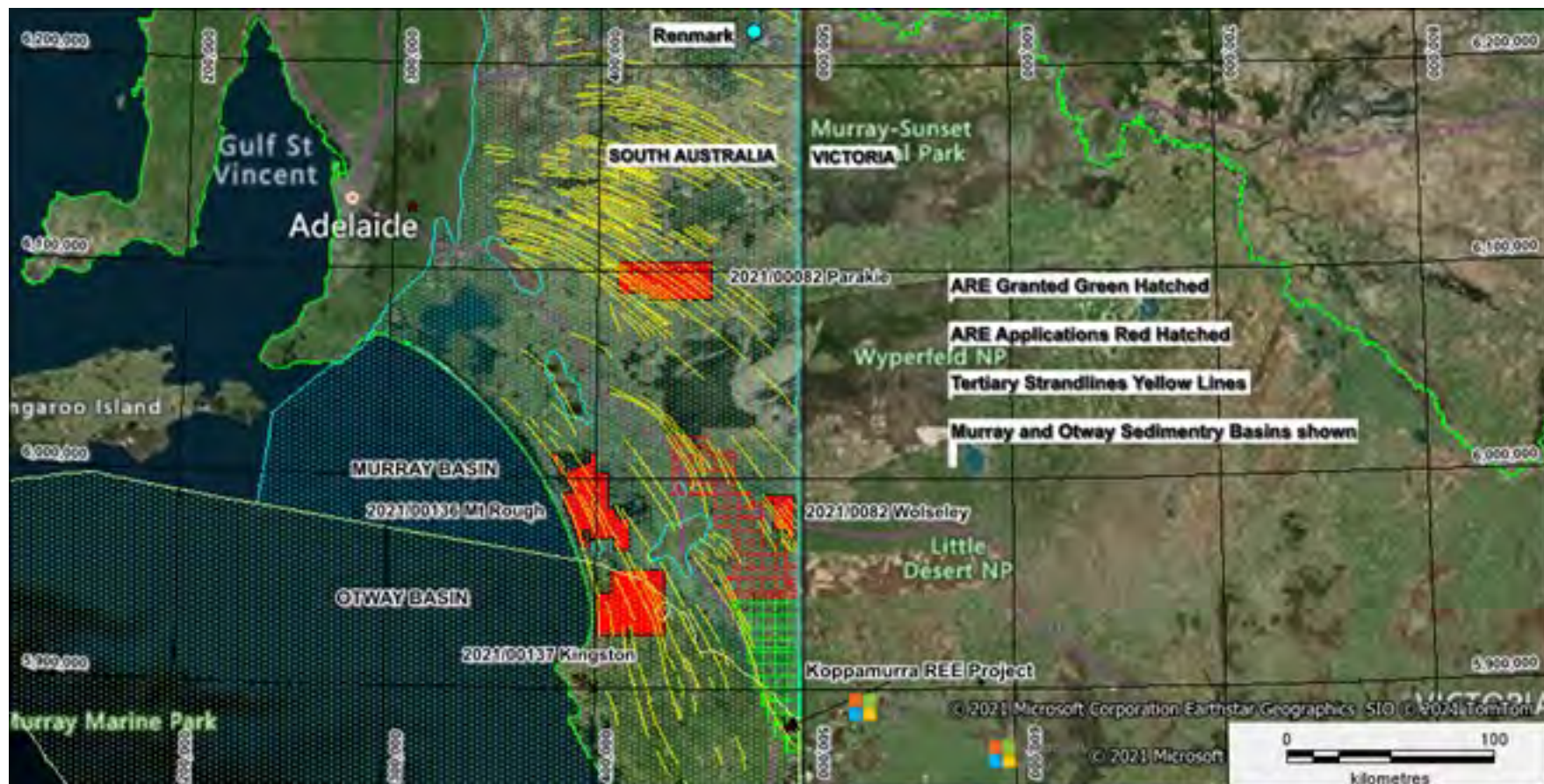


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- The Company has lodged 3 tenement applications within the Limestone Coast to the SE of Adelaide for Rare Earth Element (REE) exploration
- The tenements are located in the Murray and Otway Basins
- The target REE areas are within the Loxton Sands or equivalents and associated with the fine clay fraction
- The tenements are located to the north of Australian Rare Earths (ASX:AR3) Koppamurra ionic clay JORC Inferred Resource of 39,9 Mt @ 725 ppm Total Rare Earth Oxide (TREO)



# SA : Limestone Coast Tenements



SA Tenement Applications in red and Tertiary Strandlines in yellow

# SA : Limestone Coast when tenements granted

## Initial Phase of Exploration



AUSMON RESOURCES  
LIMITED

- Compile and review all historic exploration including drilling
- Initial field visit to meet the landholders and determine access to the exploration sites
- Collect fine fraction dune samples to be analysed for REE's
- Complete regolith mapping of the sand dunes
- Shallow Aircore drilling of selected sand dunes to determine the thickness and grade of possible REE mineralisation

# COMPETENT PERSON STATEMENT



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## **Notes Specific - ASX Announcements AGM Presentation**

The following announcements were lodged with the ASX (including supporting JORC Reporting Tables) and details for each of the sections noted in this Presentation and can be found in the announcements. Note that these announcements are not the only announcements released to the ASX since the last presentation dated 27<sup>th</sup> November 2020 but specific to exploration reporting. The Company confirms that it is not aware of any new information or data that materially affects the information previously reported.

Drilling Results EL 8747 at Stirling Vale 04/12/2020

Projects Presentation 22/12/2020

Brungle Creek EL 8954 Field Exploration Commenced 23/02/2021

Initial Results from Brungle Creek EL 8954 Phase 1 04/03/2021

New Tenement Application McAlpine ELA 6242 NSW 12/03/2021

Drilling Program Commencing at EL 8745 Eaglehawk Prospect 16/03/2021

Drilling Results at Eaglehawk Prospect EL 8745 Kanbarra 16/06/2021

Grant ELs 9220 and 9230 near Brokern Hill, NSW 03/08/2021

Grant of EL 9252 McAlpine near Tumut NSW 12/08/2021

Applications For Rare Earth Elements Exploration Tenements 17/08/2021

*The information in this announcement that relates to exploration targets and exploration results is based on information compiled by Mark Derriman competent person who is a member of the Australian Institute of Geoscientists (AIG). Mark Derriman is a consultant of Ausmon Resources Limited. Mark Derriman has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the JORC Code. Mark Derriman consents to the inclusion in this announcement of the matters based on his work in the form and context in which it appears.*

# FINAL SLIDE FOR THE PRESENTATION



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Thank you for listening to my AGM presentation