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The information in this report that relates to Exploration Results is based on information compiled by Ms. Sarah James who is a Member of the Australasian Institute of Mining and Metallurgy. Ms. James holds shares and options in and is a full time employee of Encounter Resources Ltd and has sufficient experience which is relevant to the style of mineralisation under consideration to qualify as a Competent Person as defined in the 2012 Edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Ms James consents to the inclusion in the report of the matters based on the information compiled by her, in the form and context in which it appears.

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This announcement has been approved for release by the Board of Encounter.

S encounter resources LIMITED

The Encounter Business Model



PROJECT GENERATOR MODEL

Progress project pipeline with a mix of alliances, joint ventures and sole funding



TIER 1 TARGETS

Project generation and exploration targeting <u>copper</u> <u>dominant</u> discoveries in world-class mineral belts



HIGH QUALITY PARTNERS

Partner with leading mid-tier and major producers which have talented exploration teams



FAST ADOPTION OF NEW DATA AND TECHNOLOGIES

Fast mover, early adopter of new technologies and datasets



DATA DRIVEN INSIGHTS

Cost effective and innovative data-driven techniques to rapidly prioritise and assess targets



Large scale copper exploration

Attractive demand side dynamics for copper:

- Significant increase in production required to support the global megatrends of vehicle electrification and decarbonisation
- Greater focus on sustainability supports the development of new, modern mining operations in high quality jurisdictions like Australia

Attractive supply side dynamics for copper:

- Current discovery and development pipeline will not satisfy the forecast demand increase
- Average global mined copper grades remain in decline
- Increasing portion of global supply coming from higher risk jurisdictions

Encounter well positioned in three emerging regions in Australia with potential to host large scale copper discoveries

 Validated through joint venture partners and third party interest in 100% owned assets



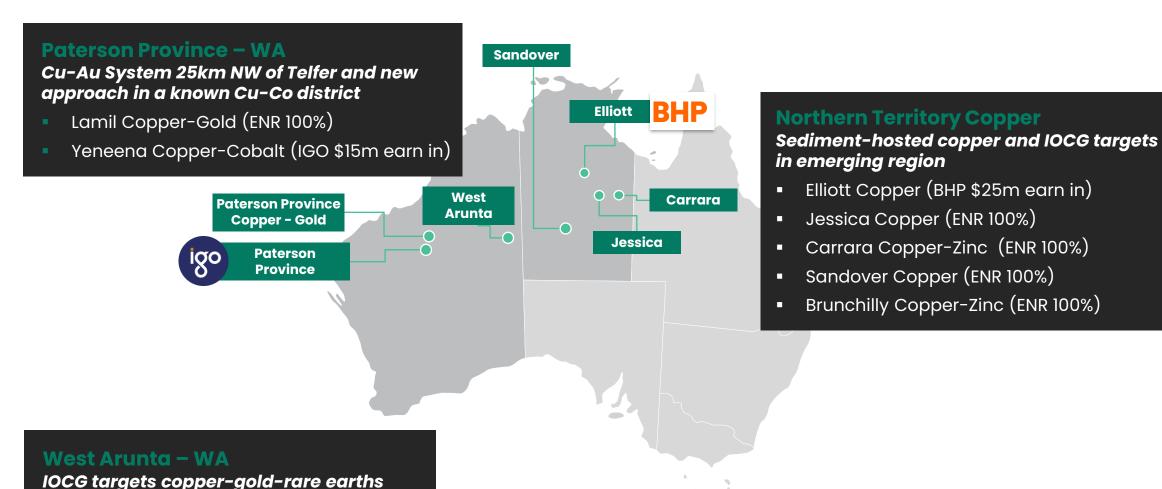


A pi

A premier copper exploration portfolio

Aileron IOCG Copper-Gold (ENR 100%)

Early mover positions in world-class minerals belts attracting Tier 1 partners





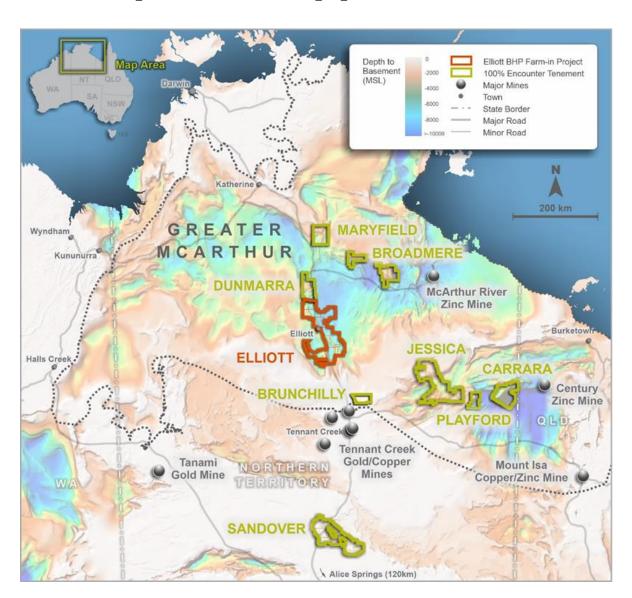


Northern Territory:

The next hot spot for copper in Australia

Northern Territory: the next hot spot for copper in Australia

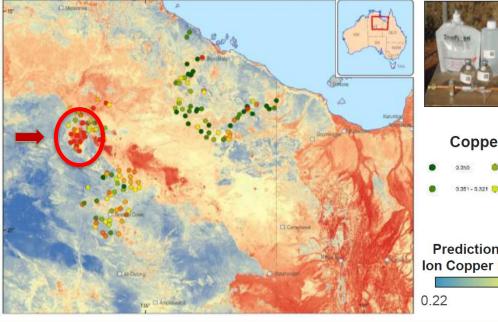
- Highly prospective, vastly underexplored region under shallow cover
- Major copper-gold producing districts of Mt Isa and Tennant Creek
- Transformational investment in precompetitive data by Geoscience Australia (GA) and the Northern Territory Geological Survey (NTGS)
- These new datasets are providing crucial early insights into areas prospective for sedimentary hosted deposits
- Encounter has used these datasets to build a commanding position of first mover copper opportunities



Elliott Copper Project BHP

- BHP (ASX:BHP) earn-in and joint venture agreement covering the 7,200km² Elliott Copper Project
- BHP may earn up to a 75% interest in Elliott by spending up to \$25 million over 10 years
- Compelling exploration opportunity in the vastly underexplored Greater McArthur Superbasin
- Key ingredients for the formation of large sedimentary copper deposits
- Standout copper in groundwater anomaly from GA sampling
- Target sequence undercover and untested
- 2022 exploration program, including seismic surveys and drilling, to define prospective deposition sites for sedimentary copper mineralisation

Hydrochemistry and Big Data Analytics









Prediction Mobile Metal Ion Copper in Soils (mg/kg)



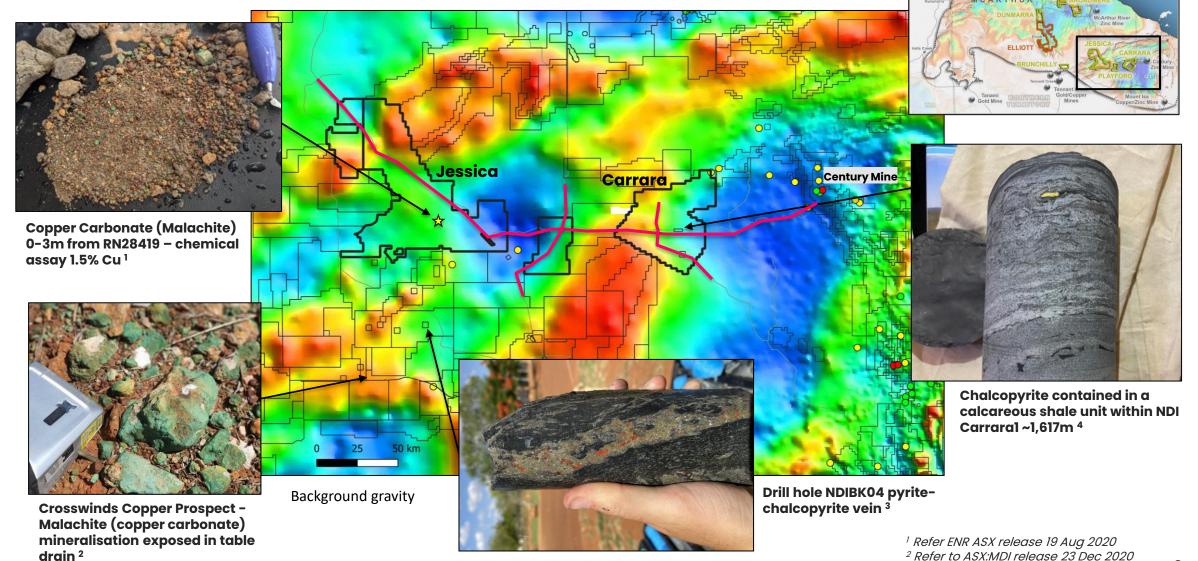
GEOSCIENCE AUSTRALIA COMPANIA (Georgianos Australa)

arol.czarnota@ga.gov.au

MEC 5 June 2019

Jessica and Carrara Projects

Copper at surface and at depth



³ Refer to ASX:ICG release 28 Mar 2021

NTGS Core Library, Darwin





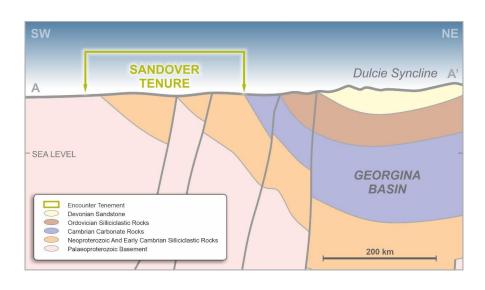


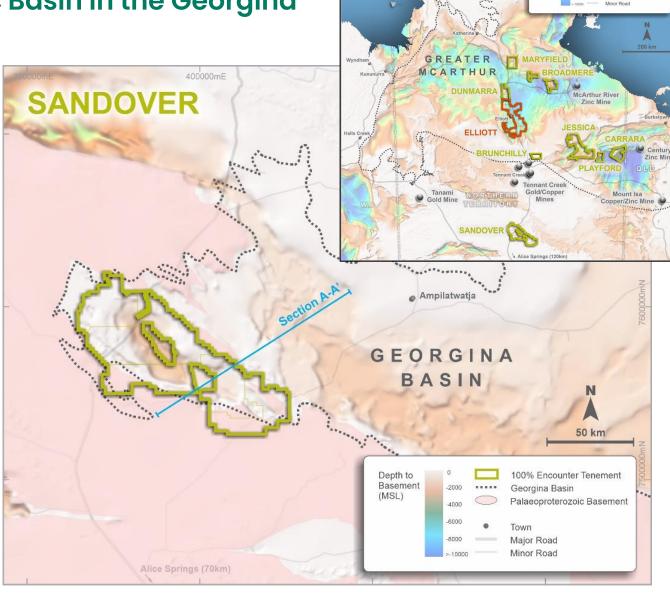
The Sandover Project

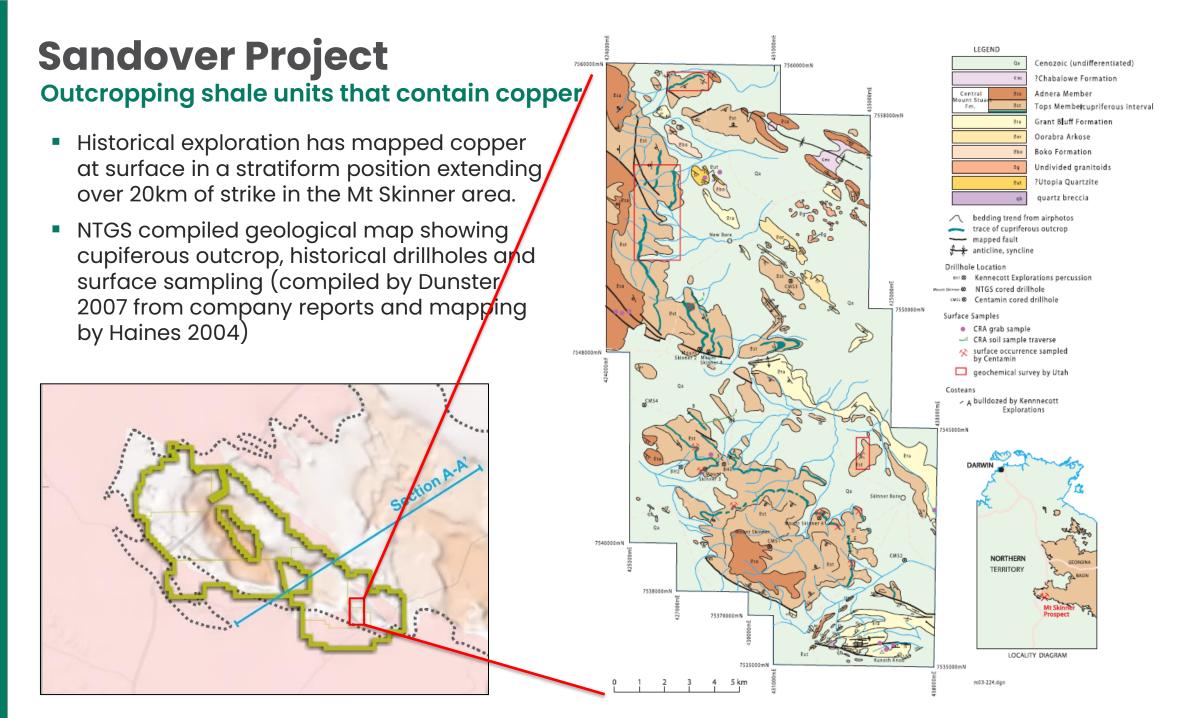
A new sediment hosted copper province in the Northern Territory?

A partially exposed Neoproterozoic Basin in the Georgina

- 170km north-east of Alice Springs
- Covers a major structural corridor on the southern margin of the Georgina Basin
- Interpreted to represent a locally preserved Neoproterozoic depocentre, overlain by more extensive Cambrian Georgina Basin sediments

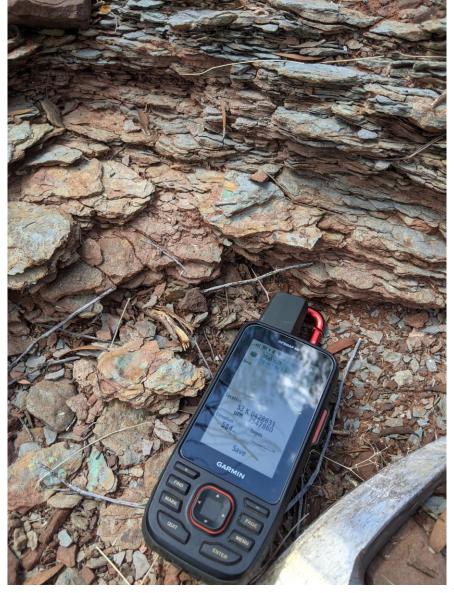






- In October 2021 the first field reconnaissance was completed
- Sampling was conducted in four field areas located up to 6km apart to ground truth previously mapped outcropping copper.
- Confirmed the presence of an outcropping red-bed sandstone sequence with multiple, narrow but strike extensive, grey shale units containing copper oxide mineralisation
- Units are assigned to the Tops Member of the Central Mount Stuart Formation. Dolomite and anhydrite are present in the Tops Member.

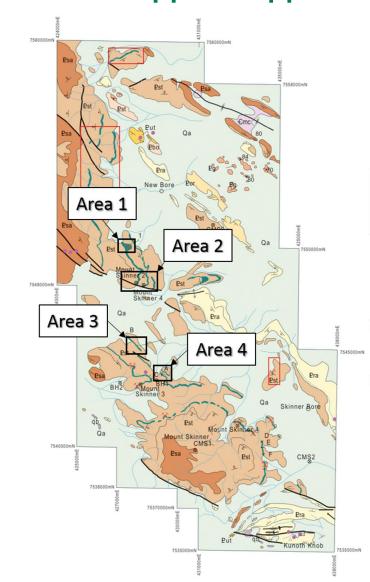


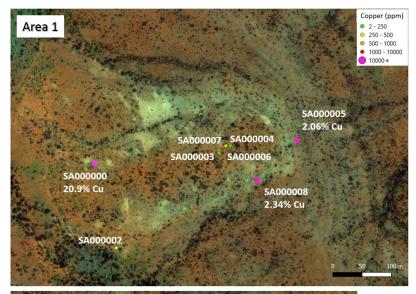


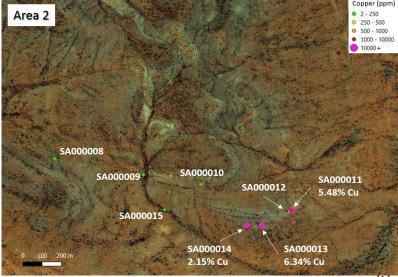


Outcropping shale units that contain copper mapped for more than 20km

- Sampling of copper mineralisation at surface returned assays up to 20.9% Cu and a suite of highly anomalous pathfinder elements (Zn, Ag, As, Bi, Mo and Pb) at four separate areas over 6km of strike.
- Limited historical drilling was completed between 1966 and 1971 and demonstrated that that anomalous Cu continues downdip and into fresh rock.
- Historical review notes that downhole copper anomalism is associated with locally elevated Ag, As, Co, Mo, Ni, Pb and Zn.
- Diamond core review is commencing this week in Alice Springs.





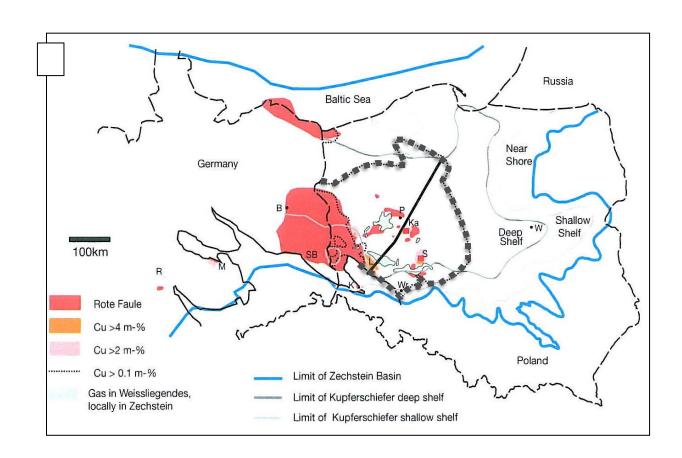


Refer to ENR ASX release 16 December 2021

Sandover Project

A new sediment hosted copper-province in the Northern Territory?

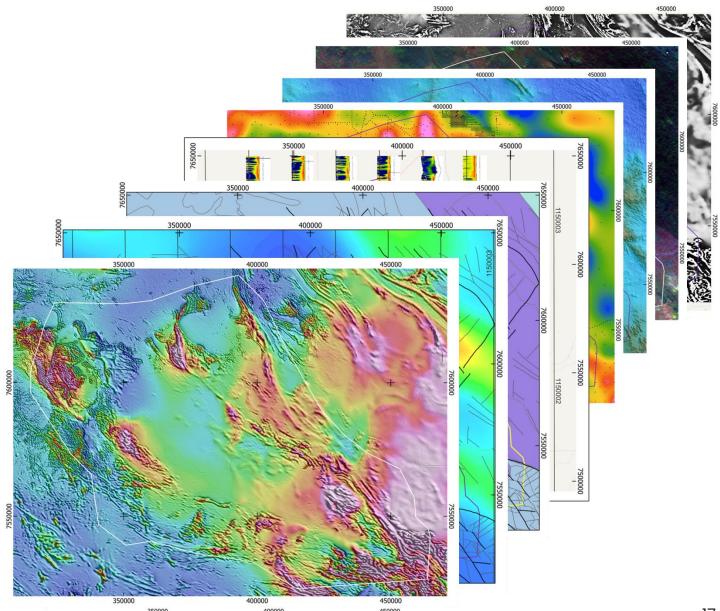
- The major elements of a sediment-hosted copper system are present at Sandover.
- The classic Zambian analogy is particularly relevant in
 - Juxtaposition of Neoproterozoic sediments against crystalline basement
 - Presence of evaporites
 - Reduced stratigraphic units to trap copper brines, within a red-bed sequence
 - Evidence of copper mineralisation event
- Sandover also shows similarities to the Kupferschiefer sediment-hosted copper system in Central Europe.
 - Lack of significant metamorphism and polyphase deformation
 - Potential geochemical zonation Cu-Pb-Zn and significant silver anomalism



+1000ppm Cu extends over many 100's of kms

Exploration Activities

- Geophysical compilation, derivative images and review by Darren Hunt at Terra Resources
- Integration of Magnetics, Radiometrics, Gravity, AusAEM together with Aster, mapped geology, DEM, diamond drillcore stratigraphy and geochemistry.
- On- ground geological reconnaissance and mapping activities extending basin wide
- Integrated basin wide interpretation
- Understanding basement architecture is fundamental to success
- New geophysical survey acquisitions planned gravity survey and evaluating expanded airborne EM coverage.



Next Steps

Designing an exploration program to fast track this emerging opportunity

- Engaging with experts in sediment hosted copper deposit model
- Exploration program to focus on:
 - Identifying and extending reduced units within the basin along strike and under cover
 - Emphasis on basin architecture and where reduced units intersect long-lived basin forming structures as areas with the potential to host major mineral deposits
 - Evaluating further geophysical acquisition
- Sandover also includes known pegmatite occurrences with potential for lithium and other critical metals which will be investigated in conjunction with the copper exploration activities.



Foundations established for major copper exploration drive

Major new copper discoveries required to meet burgeoning demand - constrained supply

Sediment-hosted copper systems are a high grade and large deposit style

Central Australia has the right geology for sedimenthosted and IOCG copper deposits....but underexplored

Partnering with majors to maximise exploration investment and activity





Exceptional leverage to the decarbonisation and electrification global thematic

