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The information in this report that relates to Exploration Results is based on information compiled by Mr. Peter Bewick who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Bewick hold shares and options in Hamelin. He is a full time employee of Hamelin, 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'. Mr Bewick consents to the inclusion in the report of the matters based on the information compiled by him, in the form and context in which it appears.

Hamelin confirms that it is not aware of any new information or data that materially affects the information in the relevant ASX releases and the form and context of the announcement has not materially changed. Hamelin confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

The 'Newmont Tanami Operations AGES Paper 20 March 2018' referred to in this presentation is Schmeider S., Perazzo S., Griesel L., Robinson C. 2018 Tanami Operations, Callie mine: Multiple new discoveries supporting transformational growth in a mature mining camp. NTGS AGES conference paper 2018, and can be found at:

https://geoscience.nt.gov.au/gemis/ntgsjspui/bitstream/1/87086/4/SchmeiderAGES2018\_paper.pdf

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





# Highlights

- Safe completion of +17,500m drill program
- Successful use of soils sampling under cover through the application of Ultrafine® analysis
- Significant extension to the Fremlins gold system
- Identification of Ni-Cu-PGE mineralisation within the Hawkeye intrusion
- Finalist in the 2023 AMEC Environmental Award
- Successful EIS grant of up to \$180,000 for cofunded drilling at Sultan
- Completion of \$4.75m Capital Raise

# Hamelin Gold Directors, Key Management and capital structure



# Mr Will Robinson Non Executive Chairman B.Comm. MAus/MM

- Managing Director of Encounter Resources Ltd
- Non-Executive Director of Hampton Hill Mining
- Former President of the Association of Mining and Exploration Companies (AMEC)



### Mr Peter Bewick Managing Director B.Eng (Hons), MAusIMM

- Geologist with over 30 years industry experience
- Former Exploration Director of Encounter Resources (2005-2021)
- Non-Executive Director of Encounter Resources and Mincor Resources



### Mr Justin Osborne Non Executive Director B.Sc (Hons), FAusIMM, MAICD

- Former Exploration Manager (2013-14) and Executive Director (2015-21) of Gold Road Resources
- Previous 10 years at Gold Fields in senior exploration and development strategy roles
- Non-Executive Chairman of Matador Mining and Non-Executive Director of IGO Group and Astral Resources



### Mr Philip Crutchfield KC Non Executive Director B.Comm., LL.B (Hons), LL.M LSE

- Current Non-Executive Director of Encounter Resources, Dreadnought Resources and Black Cat Syndicate
- Former Chairman of Zip Co (2015-21)
- Board member of the Victorian Bar Foundation and Melbourne Law School Foundation

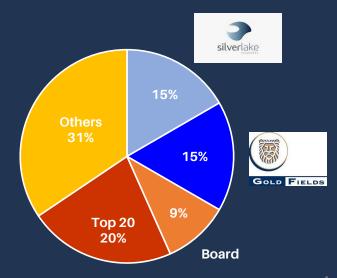


# Mr Clayton Davys Exploration Manager B.Sc (Hons)

- Geologist with over 25 years industry experience
- Former Exploration Manager of Gold Road Resources and Pioneer Resources

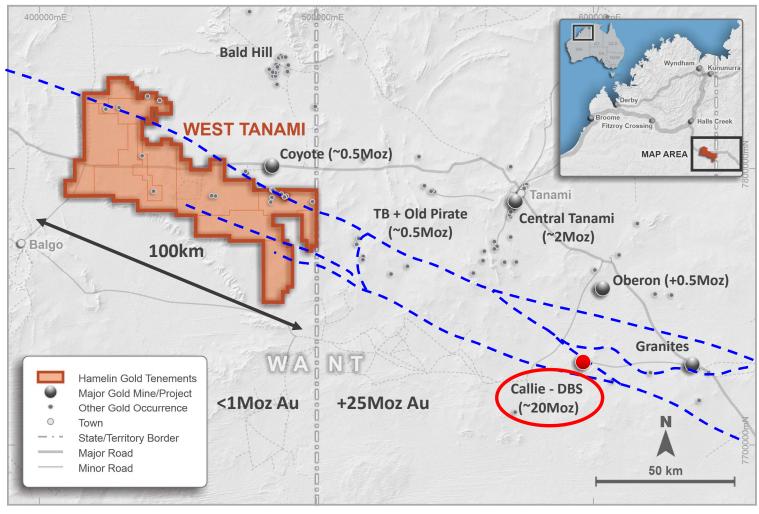
#### **CAPITAL STRUCTURE**

Shares on Issue	157.5M
Director, ESOP and broker options	11.6M
Market capitalisation (@8.5c)	\$13.4m
Cash (30/09/2023)	\$6.3M
Enterprise value	\$7.1M





# West Tanami: A Belt Scale Project in a Tier 1 Goldfield





# West Tanami: An Undercover Exploration Opportunity



# **Target Generation: Prediction and Detection**

New Geophysical Datasets: Airborne EM, gravity and magnetics







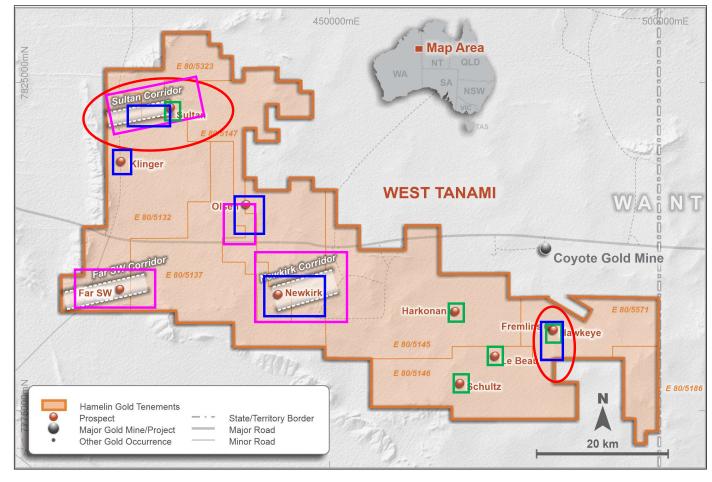


# **Key Learnings**

- Sultan application of new exploration technology in sand covered terrain – Ultrafine fraction soils
- Fremlins –leaching of metals and the ineffectiveness of shallow drilling
- Hawkeye Ni-Cu-PGE mineralized intrusion - a new deposit style for the Tanami

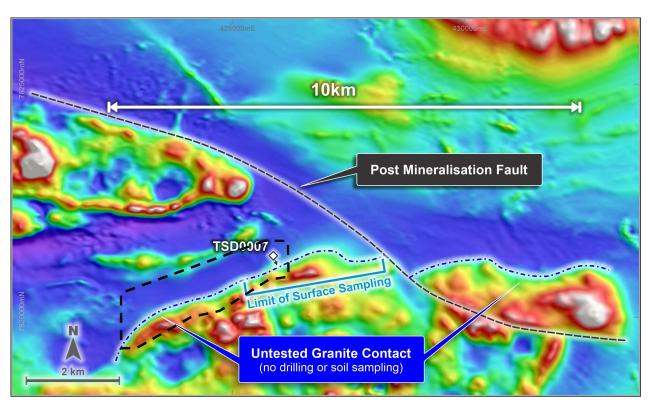


Geochemistry Aircore Drilling RC Drilling



### **Sultan Gold Corridor**

- 10km long previously unknown gold corridor
- ~2km portion soil sampled identifying Au-Bi anomaly
- Single drill line completed intersecting:
  - 7.6m @ 3.2g/t Au from 326.2m incl. 1.1m @ 15.9g/t Au from 329.7m<sup>1</sup> in TSD0007
- First application of CSIRO developed Ultrafine technology identifies two large soil anomalies
- Initial aircore drilling program completed

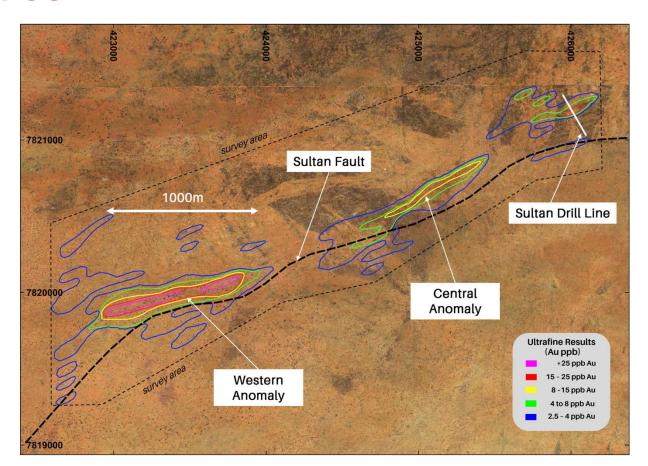


Sultan Corridor – TSD0007 location on magnetics



## **Sultan Gold Anomalies**

- Coherent, high tenor gold anomalies under thin (~3m) sand cover
- No previous exploration along the corridor
- Western Anomaly is coincident with an interpreted flexure in the Sultan Fault
- 67 aircore holes completed (~1,500m) to test the Western and Central Anomalies
- Results expected in December 2023



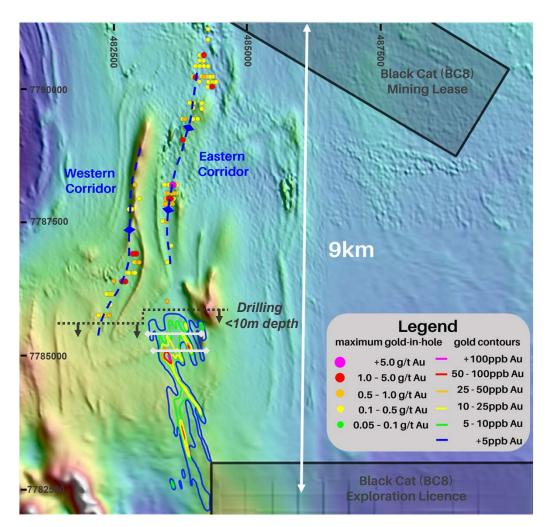
Sultan Corridor - Ultrafine Soil Results on Bing background



# **Fremlins Prospect**

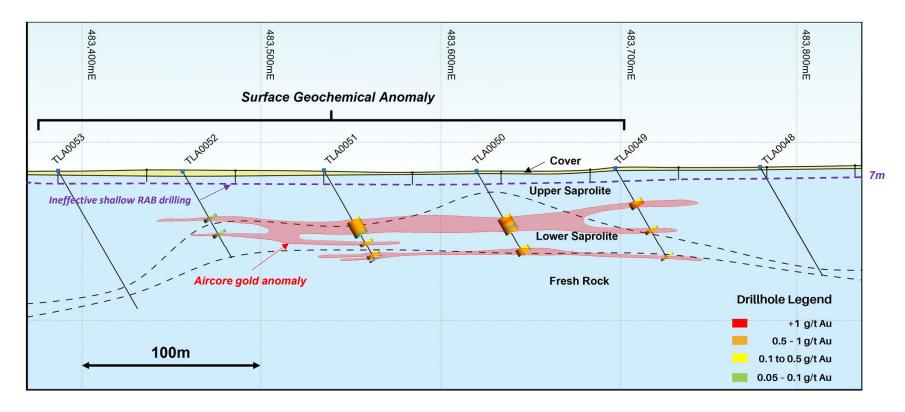
- Two defined regolith anomalies extend over 6km of strike (+100ppb Au)
- End of hole gold anomalism open along strike and at depth<sup>1</sup>
  - 22m @ 0.6g/t Au from 45m to EOH incl.
     6m@ 1.71g/t Au from 57m
  - 30m @ 0.3g/t Au from 9m incl. 1m @ 5.72g/t Au from 12m
  - 80m @ 0.2g/t Au from 52m to EOH
- Drilling over southern gold anomaly limited to 7m depth - ineffective
- Aircore drilling identifies anomalism below shallow holes and opens up southern 3km of the system





Fremlins – Geochemistry, max Au-in-hole on detailed TMI magnetics

# **Fremlins Prospect**



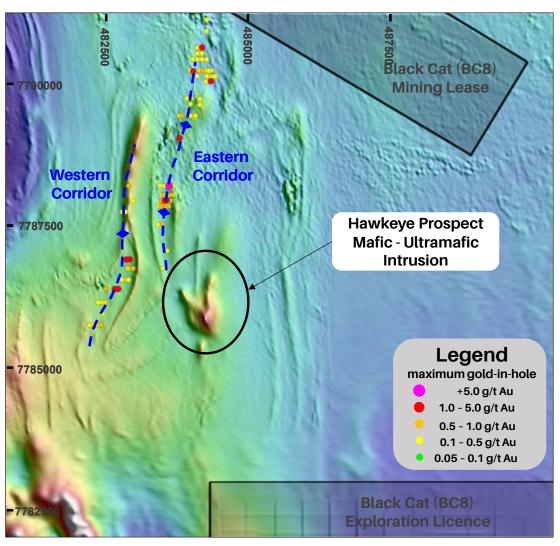
Fremlins – Southern Anomaly PHRAB vs Aircore



# **Hawkeye Prospect**

- Magnetic high cross-cutting deformed stratigraphy
- Differentiated mafic-ultramafic system at least 1.5km by 1km
- Late undeformed and unmetamorphosed
- Magmatic Ni-Cu sulphides identified
- First time this style of mineralisation has been identified in the Tanami









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