

ASX Announcement

9 November 2022

Great Northern Minerals to present at Noosa Mining Investor Conference – Wednesday 9th November

Great Northern Minerals Limited (“Great Northern Minerals” or the “Company”) (ASX: GNM) is pleased to advise that Managing Director, Cameron McLean will be presenting at Noosa Mining Investor Conference (Peppers Noosa Resort, Queensland) on Wednesday, 9 November 2022.

Mr McLean will provide an overview of the Company which is focused on the Golden Cup and Camel Creek gold projects, located in North Queensland.

Event: Noosa Mining Investor Conference

Date: Wednesday, 9th November 2022

Time: 4.53pm AEST / 5.53pm AEDT

Shareholders wishing to attend the virtual presentation can register at www.noosaminingconference.com.au.

This announcement has been authorised for release to the market by the Board of Great Northern Minerals Limited.

*****ENDS*****

For more information please contact:

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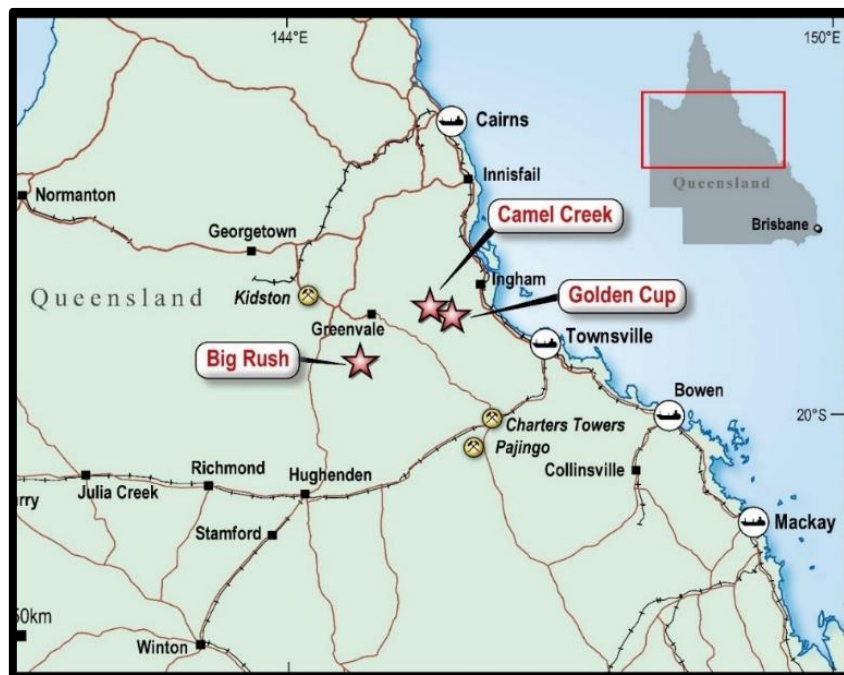
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About Great Northern Minerals Limited

Great Northern Minerals Limited is an ASX-listed gold focused explorer and developer. The Company's Golden Ant Project is located in Far North Queensland and includes the Amanda Bell and Big Rush Goldfields.

Total gold production from the Amanda Bell Goldfield was approximately 95,000 oz Au (57,000 oz from Camel Creek and 14,000 oz from Camel Creek satellite deposits, 18,000 oz from Golden Cup and 6,000 oz from Golden Cup satellite deposits). Total gold production from the Big Rush Goldfield was 60,000 oz Au. Three heap leach gold mines were operated (Camel Creek, Golden Cup and Big Rush). Mining activities commenced in 1989 and ceased in 1998 with the depletion of oxide gold mineralisation.

Great Northern Minerals aims to develop a new gold camp in North Queensland based on the Golden Ant Project.





Noosa Mining in November

9 NOVEMBER 2022

Disclaimer

Preparation

This Presentation has been prepared to provide prospective investors in Great Northern Minerals Limited, ACN 000 002 111, (“The Company” or “Great Northern Minerals”), with general information to assist them in deciding whether they wish to undertake their own investigation and/ or consider a possible investment in the Company or the Company’s projects.

This Presentation has not been independently verified for reliability, completeness or accuracy. No representation is made that such information and materials are reliable, complete or accurate. This Presentation is not a prospectus and does not constitute an offer or invitation or recommendation to any person and has been prepared solely for use by persons who are deemed to be “sophisticated investors” as described in the Corporations Act.

Projections and Assumptions

The projections and assumptions in this Presentation are indicative only and are not and should not be relied upon as representations as to future matters. The projections are based on assumptions that may or may not prove to be correct. The recipient must make their own independent assessment and investigation of those projections and assumptions. Investors will be required to undertake at their cost, any additional works needed for an investment decision.

Disclaimer

The Company and its respective shareholders, directors, partners, employees, officers, agents, consultants or advisors disclaim (to the maximum extent permitted by law) all duties and liabilities, including liability for negligence, for any loss or damage which is suffered or incurred by any person acting on any information provided or omitted to be provided by any of them in connection with an investment in The Company or any statements, opinions or matters (expressed or implied) arising out of, or contained in, or derived from, such information.

No Offer, Invitation, Recommendation /Advice

The information set out in this Presentation does not constitute an offer or invitation to subscribe for securities in The Company or investment in the assets of the Company, or a recommendation by The Company to any person in respect of any matter.

Corporate Snapshot – highly experienced team with a focus on delivery

Corporate Structure

Shares on Issue	1,709M
Listed options on issue	470M
Unlisted options on issue	67M
Share price (per share)	A\$0.004
Market capitalisation	A\$6.8M
Cash⁽¹⁾	A\$1.7M
Debt	Nil

⁽¹⁾ As at 30 September 2022

Board of Directors

Kim Robinson
Non-Executive Chairman

- ▶ Geologist - 35 years' experience in mineral exploration and mining
- ▶ Forrestannia Gold, Jubilee Mines, Kagara and Energia Metals
- ▶ Exceptional track record of discovery, project development and operation

Cameron McLean
Managing Director

- ▶ 25 years' experience in resource sector
- ▶ Snowden Mining Industry Consultants, Queensland Pacific Metals, Bindi Metals

Simon Coxhell
Non-Executive Director

- ▶ Geologist - 35 years' experience in exploration, development & mining
- ▶ Previously MD/CEO of Echo Resources (acquired by Northern Star for A\$244m in 2019)

Donald Garner
Non-Executive Director

- ▶ Geologist/Investment Banker - 25 years' experience in resource sector
- ▶ Previously MD/Executive Director of Red River Resources

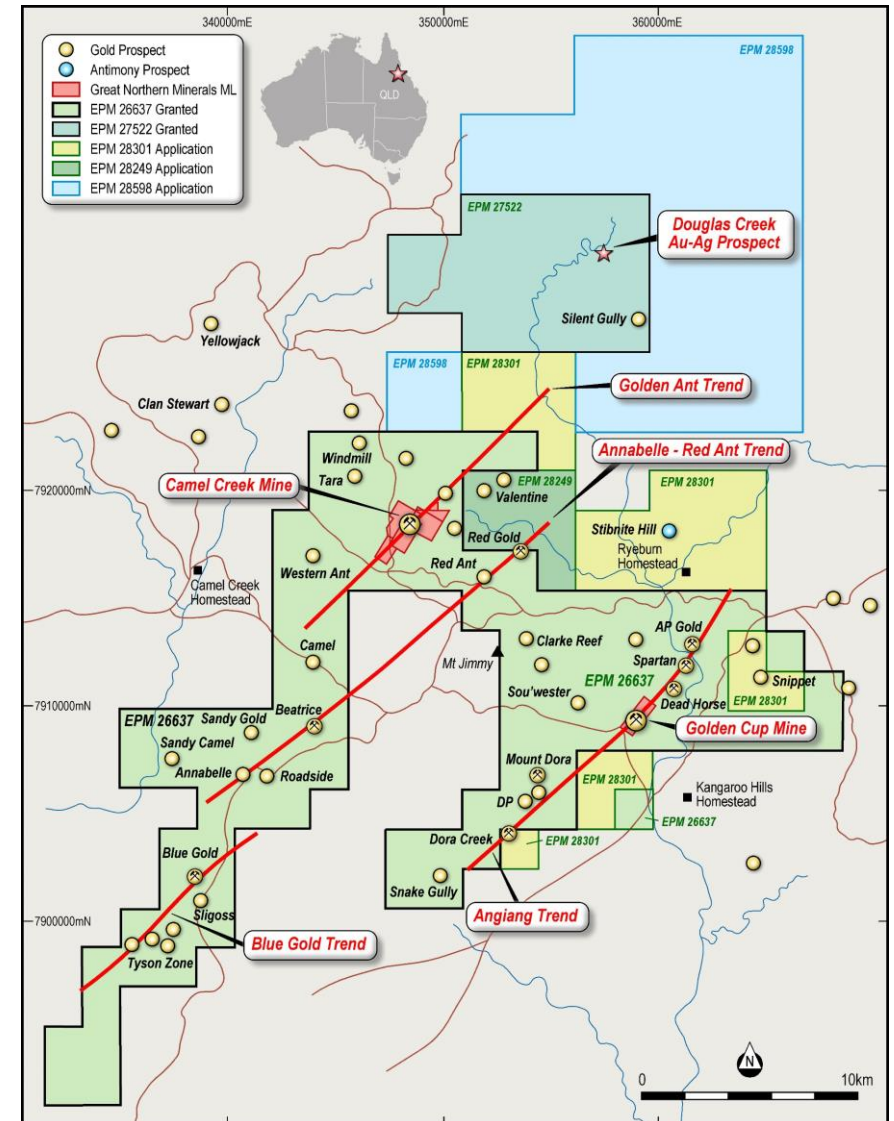
Aida Tabakovic
Company Secretary

- ▶ Accounting, reporting compliance - 10 years' experience in resource sector
- ▶ Involvement in a number of junior explorers on the ASX

Golden Ant Project

North Queensland

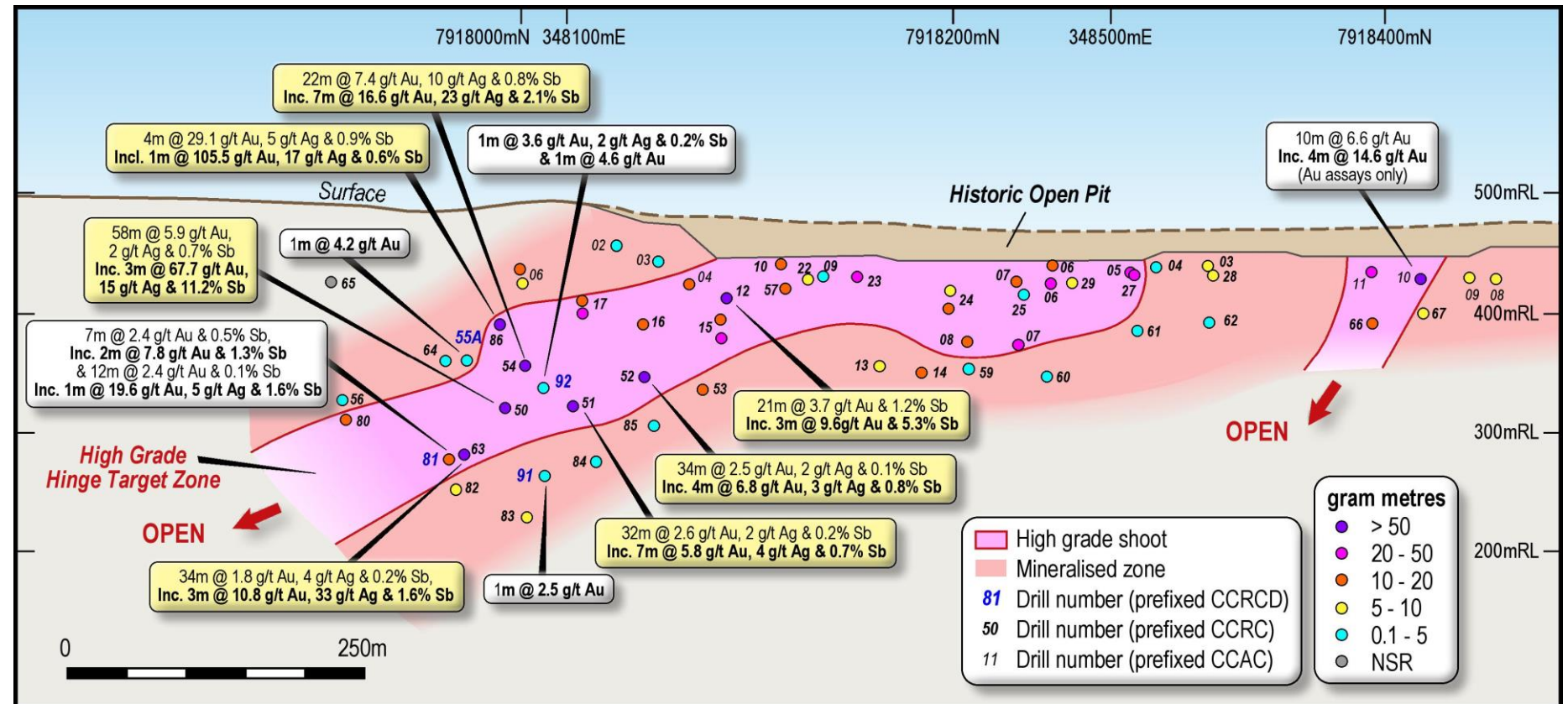
- ▶ GNM's key project in North Queensland – approximately 660km² ground holding covering four known gold-antimony trends (structural corridors)
- ▶ 8 granted mining leases, 2 granted EPM and 3 EPM applications
- ▶ High grade JORC Mineral Resource
 - Camel Creek: 2.4 Mt @ 2.6 g/t Au & 0.4% Sb (202koz Au & 9,000t Sb)
 - Golden Cup: 0.3Mt @ 3.4 g/t Au (30koz Au)
 - Material potential to increase Mineral Resource
- ▶ Exciting Douglas Creek discovery (Ag-Au-Cu Intrusion Related Gold System)
- ▶ Focus of GNM's exploration effort
 - Recently completed 11 hole RC drill program at Golden Cup
 - Mapping, rock chip and soil sampling at Douglas Creek – currently drilling



Camel Creek Deposit

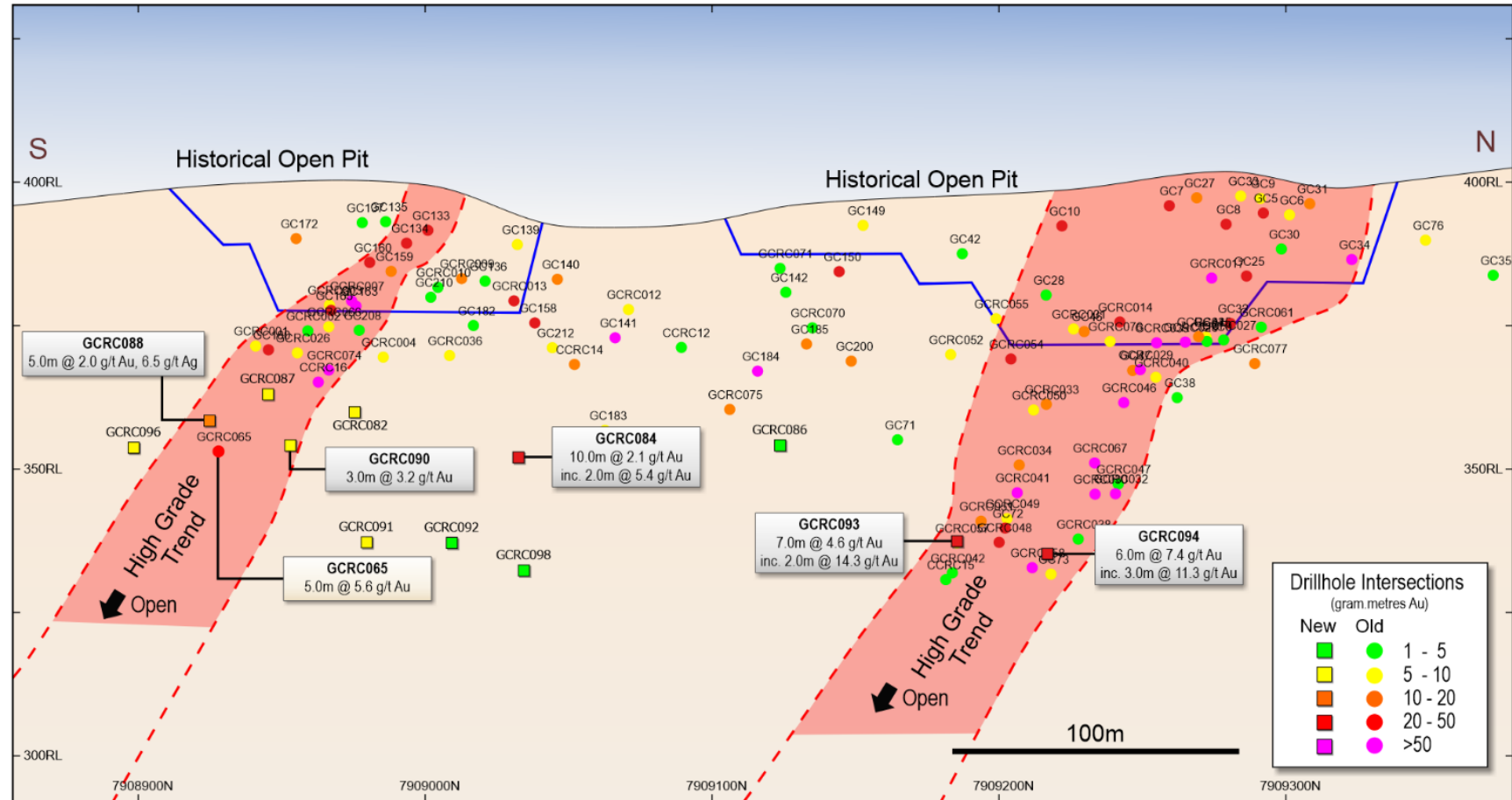
High-grade gold and antimony

- ▶ 28 open pits mined over 5km of strike length for >1 Mt mined at 1.7 g/t Au
- ▶ Camel Creek Mineral Resource (**2.4Mt @ 2.6 g/t Au & 0.4% Sb**) is open at strike & depth – potential for material increase
- ▶ Hinge Zone (high-grade Au-Ag-Sb shoot) is a priority drill target – **CCRC54 intersected 3m @ 67.7 g/t Au, 15 g/t Ag & 11.2% Sb**



Golden Cup Deposit

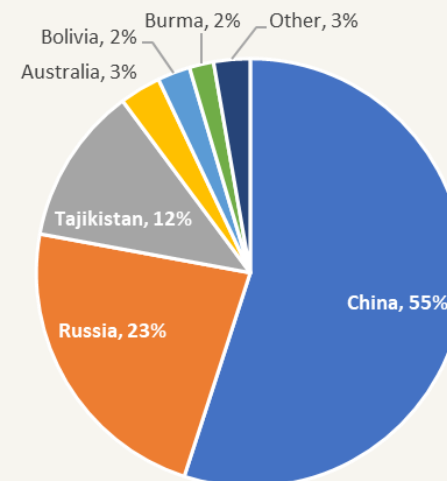
- ▶ 9 pits mined over 1,700m of strike length for 0.2Mt tonnes mined at an average grade of 2.8 g/t Au, with production finishing in 1993
- ▶ Current JORC Resource of 0.3Mt @ 3.4 g/t Au – open at depth
- ▶ High grade gold mineralisation intersected in recent Golden Cup drilling program
 - GCRC093 intercepted 7.0m @ 4.6 g/t Au from 61m down-hole inc. 2.0m @ 14.3 g/t Au from 61m down-hole;
 - GCRC094 intercepted 6.0m @ 7.4 g/t Au from 67m down-hole inc. 3.0m @ 11.3 g/t Au from 68m down-hole; and
 - GCRC084 intercepted 10.0m @ 2.1 g/t Au from 45m down-hole inc. 2.0m @ 5.4 g/t Au 48m down-hole
- ▶ GNM is reviewing the drill results and is planning a follow up drilling program to take place in 2023



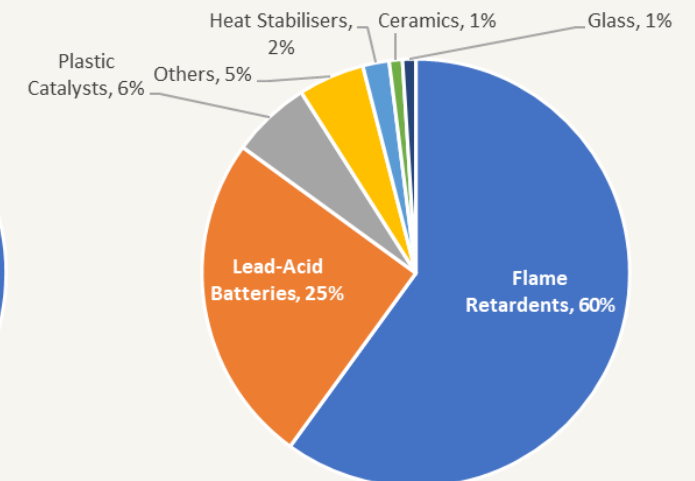
Antimony: Exciting Exposure to a Critical Raw Material

- ▶ Critical Raw Materials are metals and minerals essential to economic and national security and are vulnerable to supply chain disruptions
- ▶ Antimony has been identified as a critical raw material by the US, UK, EU, Japan, Canada and Australia
- ▶ Antimony mine production is dominated by China (55%) and Russia (23%)
- ▶ Approx. 3% of global mine production is sourced from Australia (Costerfield Sb-Au mine, Victoria)
- ▶ Antimony's main current uses are in fire retardants used in virtually all consumer and industrial plastics and lead-acid batteries
- ▶ Emerging technology for large capacity energy storage batteries points to antimony being a critical raw material for the clean energy transition
- ▶ **Recent and ongoing geo-political shockwaves from the Russia-Ukraine conflict have driven antimony prices to US\$14,000 per tonne (Argus, 18 March 2022)**

World Antimony
Mine Production 2021 (USGS)



Antimony
End Uses (USGS, Roskill)



Douglas Creek Greenfield Au-Ag-Cu Discovery



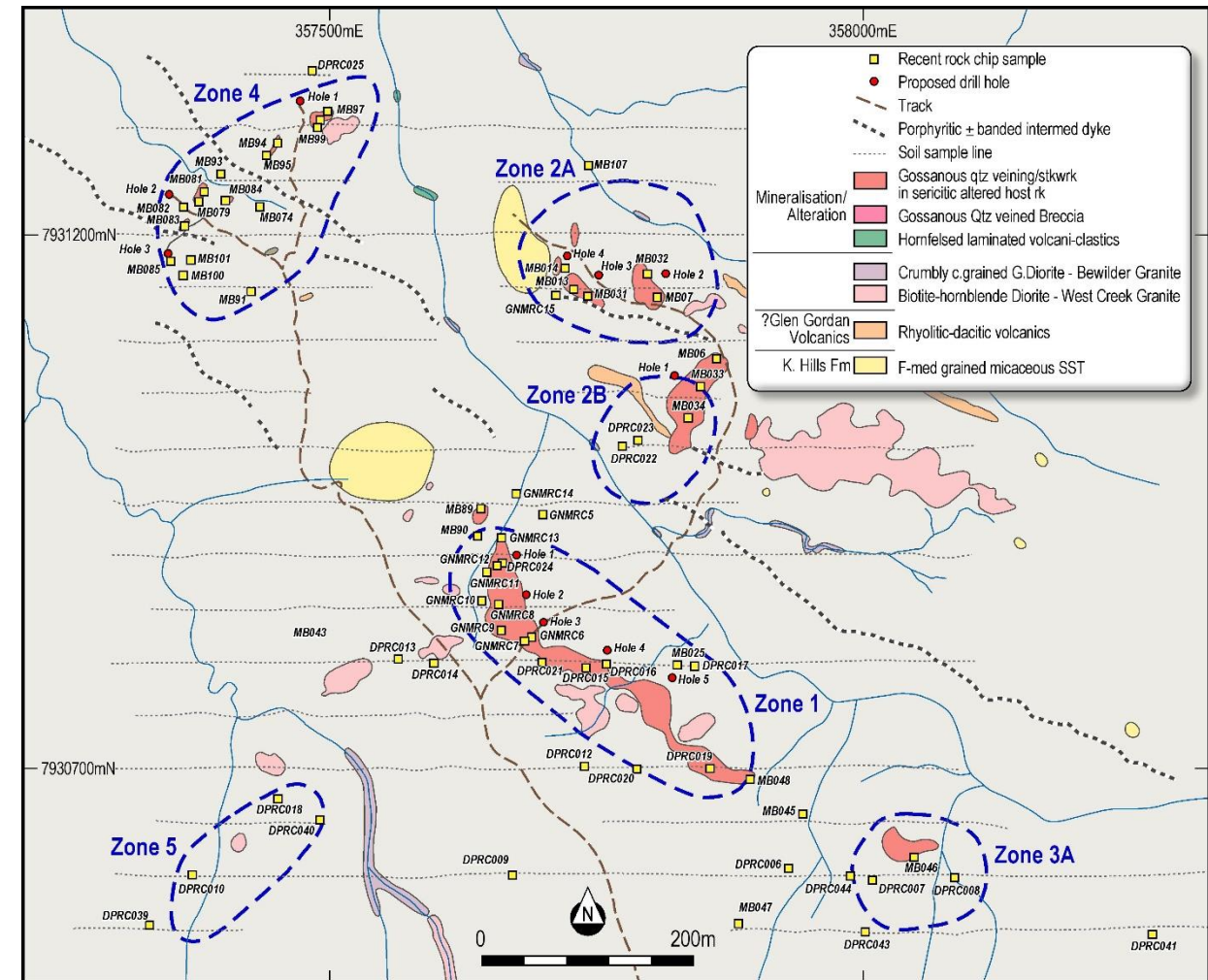
Douglas Creek

Drill preparation underway - program will consist of 13 RC drill holes (approx. 1,100m drilling) and seek to test Target Areas One, Two and Four

Douglas Creek Greenfield Au-Ag-Cu Discovery

Douglas Creek

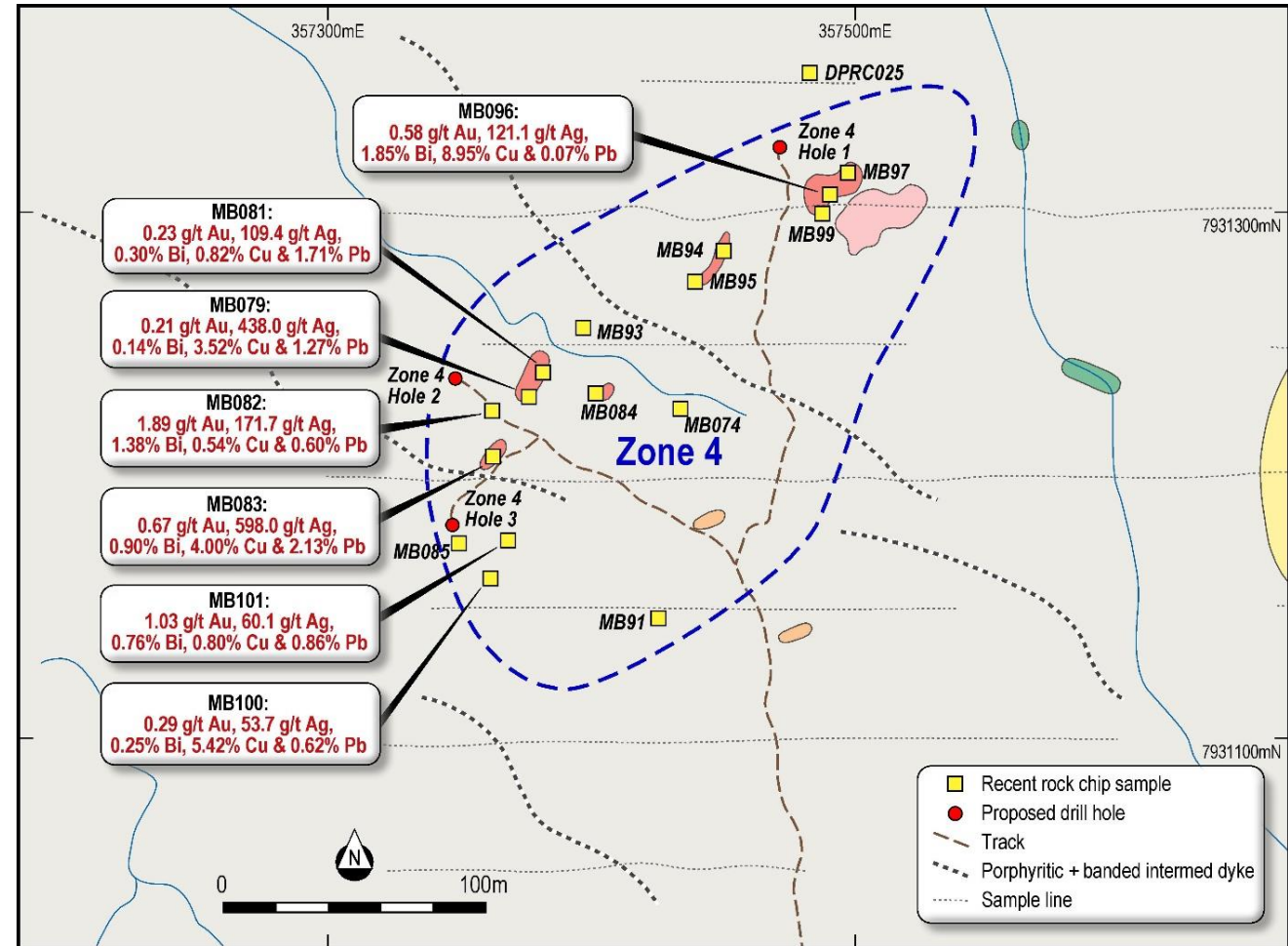
- ▶ GNM discovered the Douglas Creek Intrusion Related Gold System (IRGS) Deposit in early 2022
- ▶ Multiple zones (at least 5) of outcropping/subcropping high grade mineralisation over >125ha
 - **Highly soil assays: up to 38.1 ppb Au, 4.0 g/t Ag and 1,023 ppm Cu**
 - **Exceptionally high rock chips - up to 13.9 g/t Au, 598 g/t Ag, 11.0% Cu, 4.7% Pb & 1.8% Bi**
- ▶ Anomalous soil results coincide with rock chips, bolstering these areas as potential drill targets
- ▶ Landholder access agreement has been signed, Native Title clearance activities completed and drilling has commenced



Douglas Creek Greenfield Au-Ag-Cu Discovery

Recent Sampling Confirms Prospectivity

- ▶ Recent systematic sampling at Douglas Creek has confirmed the presence of high-grade outcropping Au-Ag-Bi-Cu-Pb mineralisation (Target Area Four)
- ▶ Area of approximately 300m length (NE-SW) and 100-150m width (SE-NW)
- ▶ Peak assays returned included 1.89 g/t Au (MB082), 598 g/t Ag (MB083), 8.95% Cu (MB096), 2.12% Pb (MB083) and 1.84% Bi (MB096)



Douglas Creek Greenfield Au-Ag-Cu Discovery



Douglas Creek

Sheared-brecciated quartz veined, gossanous fragmental volcanoclastic with secondary malachite from Target Area Four - MB079: 0.21 g/t Au, 438 g/t Ag, 0.14% Bi, 3.52% Cu & 1.27% Pb

Great Northern Minerals – Looking Forward

Golden Ant Project

- ▶ Golden Cup drilling complete – results announced October 2022
- ▶ Scoping study progressing – understanding the project viability
- ▶ Exploration continuing – increase resource base (Au & Sb)

Douglas Creek Discover

- ▶ Exciting greenfield Au-Ag-Cu discovery at Douglas Creek
- ▶ Exceptional rock chip and soil assay results over >125ha
- ▶ First phase drilling completed

Antimony Exposure

- ▶ Antimony has been identified as a critical raw material
- ▶ GNM has significant exposure through Camel Creek Project
- ▶ Reviewing additional Sb targets – grow Sb exposure going forward

Pivot to Future Facing Metals & Materials

- ▶ Pivot to future facing metals to position GNM to take advantage of the transition to a net zero emissions future
- ▶ Exciting Douglas Creek discovery could deliver material Cu exposure
- ▶ Target additional Cu rich precious metal projects

For more information please contact:

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Competent Persons Statement

Competent Persons Statement – Exploration Results

The information in this presentation that relates to Exploration Results is based on information compiled under the supervision of Simon Coxhell, Non-Executive Director of Great Northern Minerals Limited. Mr Coxhell is a member of the Australasian Institute of Mining and Metallurgy and has sufficient experience of relevance to the styles of mineralisation and type of deposit under consideration and to the activity which he is undertaking 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 Coxhell consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.

Competent Persons Statement – Camel Creek and Big Rush Mineral Resources

The information in this presentation that relates to Mineral Resources is based on information compiled by Mr Lynn Widenbar, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Widenbar is a full-time employee of Widenbar and Associates Pty Ltd. Mr Widenbar has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that is being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves’. Mr Widenbar consents to the inclusion in the report of the matters based on his information in the form and context that the information appears.

Competent Persons Statement – Golden Cup Mineral Resource

The information in this presentation that relates to Mineral Resources is based on information compiled by Andrew Beaton (Mineral Resources) a part time consultant to Great Northern Minerals. Mr Beaton is a member of the Australasian Institute of Mining and Metallurgy and has sufficient experience of relevance to the styles of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.” Mr Beaton consents to the inclusion in this report of the matters based on their information in the form and context in which it appears.

Refer to previous ASX announcements on the 14 May 2019, 20 June 2019, 4 July 2019, 11 July 2019, 5 August 2019, 15 August 2019, 25 November 2019, 10 December 2019, 12 December 2019, 16 December 2019, 20 December 2019, 23 December 2019, 28 January 2020, 7 February 2020, 18 August 2020, 9 September 2020, 16 September 2020, 7 October 2020, 26 October 2020, 15 December 2020, 14 January 2021, 25 February 2021, 17 May 2021, 11 June 2021, 28 June 2021, 9 September 2021, 18 October 2021, 8 February 2022 and 8 March 2022 in respect of historic drilling intersections, exploration targets and mineral resources. Great Northern Minerals is not aware of any new information or data that materially affects the information included in the relevant market announcements listed.

Golden Ant Mineral Resource (0.5 g/t Au cut-off)

	Resource	Tonnes	Gold	Antimony	Contained Gold	Contained Antimony
	Classification	(kt)	(g/t)	(Sb %)	(koz)	(tonnes)
Camel Creek ⁽¹⁾	Indicated	1,440	2.7	0.4%	127	5,700
	Inferred	970	2.4	0.3%	75	3,300
	Sub Total	2,410	2.6	0.4%	202	9,000
Big Rush ⁽²⁾	Indicated	2,236	1.7	-	99	-
	Inferred	1,203	1.8	-	54	-
	Sub Total	3,439	1.8	-	153	-
Golden Cup ⁽³⁾	Indicated	-	-	-	-	-
	Inferred	279	3.4	-	30	-
	Sub Total	279	3.4	-	30	-
Camel Creek		2,410	2.6	0.4%	202	9,000
Big Rush		3,439	1.8	-	153	-
Golden Cup		279	3.4	-	30	-
Golden Ant Project	Total	6,128	2.0	-	386	-

Tonnages and grades are rounded. Discrepancies in totals may exist due to rounding:

(1) Widenbar & Associates 3 March 2022.

(2) Great Northern Minerals ASX release dated 21 February 2021

(3) Great Northern Minerals ASX release dated 9 December 2019