

### Annual General Meeting 20 November 2019





### Disclaimer



#### **General Disclaimer**

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The Competent Person's consents remain in place for subsequent releases by Panoramic of the same information in the same form and context, until the consent is withdrawn or replaced by a subsequent report and accompanying consent.

#### No New Information or Data

This presentation contains references to Production Targets, exploration results, and Mineral Resource and Ore Reserve estimates, all of which have been cross referenced to previous market announcements made by the Company. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of estimates of Production Targets, Mineral Resources and Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

#### **Forward Looking Statements**

This presentation may contain certain "forward-looking statements" which may not have been based solely on historical facts, but rather may be based on the Company's current expectations about future events and results. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and believed to have a reasonable basis. However, forward looking statements are subject to risks, uncertainties, assumptions and other factors, which could cause actual results to differ materially from future results expressed, projected or implied by such forward-looking statements. Such risks include, but are not limited to metals price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks in the Countries and States in which we operate or sell product to, and governmental regulation and judicial outcomes. For a more detailed discussion of such risks and other factors, see the Company's Annual Reports, as well as the Company's other filings. The Company does not undertake any obligation to release publicly any revisions to any "forward-looking statement" to reflect events or circumstances after the date of this announcement, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.

## Corporate Overview

| ASX Ticker         | ASX:PAN                           |
|--------------------|-----------------------------------|
| Shares on issue    | 654.2M                            |
| Share Price        | \$0.365 (19 November 2019)        |
| Market Cap         | ~\$238.8M                         |
| Cash               | \$20.2M (30 September 2019)       |
| Listed Investments | ~\$11M (Horizon Gold, GME, other) |
| Bank debt          | \$20M (30 September 2019)         |
| Enterprise Value   | ~\$227.6M                         |



STRUCTUREE

CAPITAL

PRICE

ш

SHARE

| 30-day average daily volume | ~1.8M             |
|-----------------------------|-------------------|
| 90-day average daily volume | ~1.3M             |
| 52 week Low-High            | \$0.275 - \$0.505 |

#### **BOARD AND MANAGEMENT**



Brian Phillips Non-Exec Chairman

Non-Exec

Director



Gillian Swaby Non-Exec Director

### SHAREHOLDER COMPOSITION



Zeta Resources IGO Other Top 20 Institutions Employees Balance of Holders



Rebecca Hayward Non-Exec Non-Exec Director Director



Victor Rajasooriar

Managing Director

& CEO



Peter Sullivan

(Chairman elect)



Trevor Eton CFO/Co Secretary



### Panoramic – An 18 Year Track Record



## Safety

64% reduction in LTIFR to 4.2 in the past 12 months

# 239

current employees and contractors

Operated 3 Nickel Mines

186kt Ni, 61kt Cu and 5kt Co produced since formation

### Fostering a positive 'can do' culture

underpinned by a commitment to operate sustainably, transparently and in an environmentally responsible way 342.7kt Ni, 125kt Cu and 18.7kt Co

added to Mineral Resources through exploration

# \$114.3M

paid in fully franked dividends since 2007

**1.29Mdmt** of concentrate shipped

## Since 2003

close, long-term relationship with Jinchuan

### **Overview of Savannah Operation**





### **Project History**

- 2001 Owned by Panoramic at the time of its IPO
- 2004 Commencement of mining of Savannah orebody
- Feb 2014 Discovery of Savannah North orebody
- May 2016 Savannah placed on care and maintenance
- Jul 2018 Restart decision made
  - Dec 2018 Resumption of mining and processing operations
- Nov 2019 First ore from Savannah North

### **Existing Infrastructure**

- Underground mine
- 1Mtpa processing plant (SAG mill and conventional flotation)
- Mobile mining fleet
- 200 person village
- Tailings storage facility
- 12 MW power station (owned by CPM/Pacific Energy)
- Storage facilities in Wyndham

## Savannah is a highly strategic development asset



# Compares well with other Australian based nickel sulphide assets

- Attractive combination of grade and contained metal
- Majority of higher grade deposits are being depleted
- Potential to extend Savannah North in both the upper and lower zones



- 100,100t Cu
- 100,1001 Ct
  14,800t Co

### Bulk Ni-Cu-Co concentrate

- Average grade 8% Ni, 5% Cu, 0.6% Co
- Low impurities and attractive Fe:MgO and Ni:Fe ratios

51.200t Cu

7,500t Co

Ideal feed for nickel smelters



\*Refer Appendix Resources and Reserves Tables 30 June 2019

\*\*NiEq resource grade calculated at prevailing spot metal prices at 1 November 2019 (Ni A\$24,439/t, Co A\$51,660/t, Cu US\$8,477/t) using the formulaNiEq kt = (((Ni kt \* Ni%)\*Ni Price) + ((Cu kt \* Cu%)\*Cu Price) + ((Co kt \* Co%)\*Co Price))/Ni Price

### Savannah and Savannah North





### Savannah Orebody

- Successfully mined for 12 years until May 2016
- Mining of remnant ore blocks resumed in Dec 2018 while Savannah North development undertaken
- Assumed mine production in October 2017 FS of 1.68Mt @ 1.18% Ni for 19,800t Ni contained\*
- Resources below 900 Fault not included in mine plan (0.90Mt @ 1.65% Ni for 14,900t Ni)

### Savannah North Orebody

- New discovery made by Panoramic in Feb 2014
- Assumed mine production in October 2017 FS of 5.97Mt @ 1.49% Ni for 88,900t Ni contained\*
- Twin declines are now into the Savannah orebody

#### **Cautionary Statement**

Approximately 1.1% of nickel in the Production Target is from material classified as Inferred Resource. There is a low level of geological confidence associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of Indicated Mineral Resources or that the production target itself will be realised.

\*Refer Company ASX announcement dated 27 October 2017 titled "Updated Savannah Feasibility Study. Enhances fundamentals for a decision to restart"

## Savannah Operational Update





### Development

- Twin Declines
  - Now at the Savannah North orebody on the 1380 RL

### Mining Savannah North

- Development ore intersected at Savannah North
- First cut produced 60% sulphides (~1.5-1.8% Ni)
- Producing ore from stopes early in the March 2020 quarter

### Ventilation Shaft (~900m)

- Advance Rate raise bore advancement improved significantly since the reamer head diameter was reduced to 4.1m in May 2019
- Progress
  - Advancement:468m (53% complete)
  - Remaining: 423m
  - Completion: June 2020 quarter

## Savannah Operational Update





### Savannah remnant mining remains challenging

- Below budget September quarter 2019 continued in October
- Underperformance of the underground paste filling system impacting on the stoping sequence
- Lower nickel grade due to hanging wall failure and paste dilution in two stopes
- Continuing equipment availability issues

### Operational Review due for completion within two weeks

- Being led by new MD Victor Rajasooriar with full organisational support
- Aimed at stabilising short-term operational performance
- Optimisation of Savannah North development plan and options to increase productivity and profitability

# Additional funds required to maintain an appropriate working capital position and provide enhanced financial flexibility

- Final structure, timing and terms (including sizing and price) under review
- Board anticipates the most equitable approach to meeting a short-term funding requirement will involve an entitlement offer of ordinary shares
- Further updates will be provided as assessment of options progresses

## Savannah Operational Update





### **Improvement Plan for Underground Operations**

- Repair/replace underperforming mobile equipment
- Gain access to 1490 level of Savannah to access 150,000t ore
- Fill remaining vacancies of the permanent workforce
- Improvements to paste filling infrastructure
- Debottlenecking paste plant being reliant on processing plant
- More waste rock fill and cemented rock fill
- Introduce high speed development to open up working areas and create flexibility in the mining schedule
- Potential to consolidate labour hire, miscellaneous contractors and equipment leases into a more streamlined and efficient operation

### **Completion of Operational Review within two weeks**

Updated FY2020 production guidance also due within two weeks

## Savannah North Exploration Upside





Refer Company ASX announcement dated 28 October 2015, titled "Quarterly Report for the Period Ending 30 September 2015" Refer Company ASX announcement dated 31 January 2017, titled "Quarterly Report for the Period Ending 31 December 2016" Refer Company ASX announcement dated 10 October 2019, titled "Savannah North Drilling and Development Update"

# Opportunities to increase the current Resource base

- Resource drilling completed to date is mostly confined to the Upper and Lower zones within an area between 5600mE to 6250mE
- Exploration drilling and associated DHEM surveying indicate the Savannah North mineralisation may extend well beyond this area
- For example, only half of the potential Upper Zone mineralisation has been adequately tested and remains open up-plunge to the east and down-plunge to the north-west
- The Lower Zone resource remains open down plunge to the north
- Another priority exploration target is the faulted continuation of the Savannah intrusion located below Savannah North.

## Savannah North Exploration Upside





# Opportunities to increase the current Resource base

- A significant Inferred Resource sits adjacent to the current Ore Reserve and in close proximity to the planned underground workings
- Priority areas to extend the Savannah North Resource and Reserve base are:
  - 1. Upper Zone up plunge to the east
  - 2. Upper Zone down plunge to the north-west
  - 3. Lower Zone down plunge to the north

### Savannah North Resources<sup>\*</sup>

- 175,000t Ni
- 74,300t Cu
- 12,600t Co

### Savannah North Reserves<sup>\*</sup>

- 94,500t Ni
- 40,900t Cu
- 6,700t Co

## Nickel: A Market On The Cusp Of Change





- Stainless steel remains the main driver of nickel demand
- EV battery demand to becoming the primary driver of growth
- Forecast nickel use in batteries to grow >9% by 2023 then strong growth, not only in the number of EVs that are expected to be produced, but also in the nickel intensity of individual batteries

CRU Group Principal Consultant Alex Laugharne

### Nickel: Strong Price Outlook





**UBS Nickel Market Balance and Price forecast** 

Source: WoodMac, Company Filings, UBSe.

Macquarie Group Nickel Price Forecast (Sep 2019)

| 2019 | US\$6.48/lb          |
|------|----------------------|
| 2020 | US\$7.14/lb          |
| 2021 | US\$7.43/lb          |
| 2022 | US\$8.39/lb          |
| 2023 | US\$8.62/lb          |
|      | 2020<br>2021<br>2022 |

- Demand growth has resulted in significant market deficits since 2015
- LME stockpiles at an 11 year low
- Deficit growing to ~150t by 2020
- All inventories could be consumed by the end of 2020 without a higher nickel prices to incentivise mine restarts or new projects

### Independence Group Takeover Offer

- On 4 November 2019, Independence Group (IGO) announced an unsolicited, highly conditional, all scrip takeover offer for Panoramic (the Offer)
  - Consideration is one IGO share for every 13 Panoramic shares
- To-date, the Panoramic Board has advised shareholders to **TAKE NO ACTION** in relation to the Offer
- The Board will provide a formal recommendation on the Offer in its Target's Statement
- Panoramic's largest shareholder, Zeta Resources (35.17%), has stated:
  - "Zeta Resources ... does not intend to accept Independence Group's current offer. Zeta Resources reserves the right to accept a superior proposal from Independence Group or any other bidder for Panoramic Resources."
- The Offer is not yet open it is only open once the Bidder's Statement is dispatched
- Panoramic has also announced that several conditions of IGO's Offer have been breached or are likely to be breached
  - It is open to IGO to rely on any breach to terminate the Offer, or it can waive any breach
- The Board is committed to acting in the best interests of all Panoramic shareholders and will explore all options in responding to the Offer

### Conclusion



# Ore intersected at Savannah North

Growing EV market forecast to drive nickel demand growth Review underway to address short-term operational issues Savannah North remains open with significant exploration upside

Value adding opportunities in gold and PGM projects Take No Action in relation to the takeover offer from IGO

PANORAMIC RESOURCES LTD

### FOLLOW US AS WE CREATE VALUE FOR SHAREHOLDERS

### www.panoramicresources.com

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## APPENDICES





## **1. INFERRED RESOURCES IN SAVANNAH MINE PLAN**

## Material in Updated Savannah Feasibility Study



| Classification    | Tonnage<br>Mt | Grade<br>Ni% | Grade<br>Cu% | Grade<br>Co% | Contained<br>Ni (t) | Contained<br>Cu (t) | Contained<br>Co (t) |
|-------------------|---------------|--------------|--------------|--------------|---------------------|---------------------|---------------------|
| Ore Reserves      | 7.58          | 1.42         | 0.68         | 0.09         | 107,500             | 51,200              | 7,200               |
| Inferred Resource | 0.06          | 1.91         | 0.69         | 0.13         | 1,200               | 400                 | 100                 |
| Total             | 7.65          | 1.42         | 0.68         | 0.10         | 108,700             | 51,700              | 7,300               |

The Updated FS mine plan has only ~1.1% material classified as Inferred Resource

#### **Cautionary Statement**

There is a low level of geological confidence associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of Indicated Mineral Resources or that the production target itself will be realised.





## **RESOURCES AND RESERVES**

#### No New Information or Data

The Mineral Resource and Ore Reserve estimates tabled below have been previously reported, and the relevant market announcements cross referenced. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of estimates of Mineral Resources and Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

# RESOURCES: Nickel-Copper-Cobalt at 30 June 2019



| Dessures               | <b>F</b> | Matal  | JORC       | Measu     | Measured |           | Indicated |           | Inferred |            | Total |         |
|------------------------|----------|--------|------------|-----------|----------|-----------|-----------|-----------|----------|------------|-------|---------|
| Resource               | Equity   | Metal  | Compliance | Tonnes    | (%)      | Tonnes    | (%)       | Tonnes    | (%)      | Tonnes     | (%)   | Tonnes  |
| Savannah Project       |          |        | -          | -         |          |           |           |           |          |            |       |         |
| Savannah (above 900)   | 100%     | Nickel | 2012       | 1,178,000 | 1.40     | 622,000   | 1.70      | -         | -        | 1,800,000  | 1.50  | 27,100  |
|                        |          | Copper |            |           | 0.86     |           | 1.41      |           | -        |            | 1.05  | 18,900  |
|                        |          | Cobalt |            |           | 0.07     |           | 0.08      |           | -        |            | 0.07  | 1,300   |
| Savannah (below 900)   | 100%     | Nickel | 2012       | -         | -        | 780,000   | 1.64      | 125,000   | 1.72     | 905,000    | 1.65  | 14,900  |
|                        |          | Copper |            |           | -        |           | 0.76      |           | 0.75     |            | 0.76  | 6,900   |
|                        |          | Cobalt |            |           | -        |           | 0.10      |           | 0.09     |            | 0.10  | 900     |
| Savannah North (Upper) | 100%     | Nickel | 2012       | -         | -        | 4,229,000 | 1.64      | 1,759,000 | 1.25     | 5,987,000  | 1.53  | 91,300  |
|                        |          | Copper |            |           | -        |           | 0.65      |           | 0.49     |            | 0.60  | 36,100  |
|                        |          | Cobalt |            |           | -        |           | 0.12      |           | 0.10     |            | 0.11  | 6,800   |
| Savannah North (Lower) | 100%     | Nickel | 2012       | -         | -        | 2,697,000 | 1.96      | 853,000   | 2.02     | 3,549,000  | 1.97  | 70,100  |
|                        |          | Copper |            |           | -        |           | 0.98      |           | 0.93     |            | 0.97  | 34,400  |
|                        |          | Cobalt |            |           | -        |           | 0.14      |           | 0.13     |            | 0.14  | 4,900   |
| Savannah North (Other) | 100%     | Nickel | 2012       | -         | -        | 242,000   | 2.22      | 493,000   | 1.67     | 735,000    | 1.85  | 13,600  |
|                        |          | Copper |            |           | -        |           | 0.50      |           | 0.53     |            | 0.52  | 3,800   |
|                        |          | Cobalt |            |           | -        |           | 0.14      |           | 0.11     |            | 0.12  | 900     |
| Total (Equity)         |          | Nickel |            | -         |          | ·         |           |           |          | 12,977,000 | 1.67  | 217,000 |
|                        |          | Copper |            |           |          |           |           |           |          |            | 0.77  | 100,100 |
|                        |          | Cobalt |            |           |          |           |           |           |          |            | 0.11  | 14,800  |

## **RESOURCES:** Nickel-Copper-Cobalt at 30 June 2019

### **Qualifying Statement and Notes**

#### Notes:

Figures have been rounded and therefore may not add up exactly to the reported totals All resources are inclusive of reserves Savannah Project Resource cutoff grade is 0.50% Ni

#### Cross references to previous Company ASX announcements:

Savannah (above 900) - refer to ASX announcement of 30 September 2016, titled "Mineral Resources and Ore Reserves at 30 June 2016" Savannah (below 900) - refer to ASX announcement of 30 September 2015, titled "Mineral Resources and Ore Reserves at 30 June 2015" Savannah North – refer to ASX announcement of 24 August 2016, titled "Major Resource Upgrade for Savannah North"

#### No New Information or Data

The Mineral Resource estimates tabled above, with the exception of Savannah (above 900), have been previously reported and the relevant market announcements cross referenced. Except where stated otherwise, the Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

#### **Competent Person Statement**

The information in this presentation that relates to Mineral Resources for Savannah (above 900) is based on information compiled by or reviewed by Matthew Demmer (MAusIMM). The aforementioned is a full-time employee of Panoramic Resources Limited. The aforementioned have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking 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. The aforementioned consents to the inclusion in the release of the matters based on their information in the form and context in which it appears.

## RESERVES: Nickel-Copper-Cobalt at 30 June 2019



| Reserve          | Equity | Metal  | JORC       | Prove     | en   | Probat    | ole  | Total     |      | Metal   |
|------------------|--------|--------|------------|-----------|------|-----------|------|-----------|------|---------|
| Reserve          | Equity |        | Compliance | Tonnes    | (%)  | Tonnes    | (%)  | Tonnes    | (%)  | Tonnes  |
| Savannah Project |        |        |            |           |      |           |      |           |      |         |
| Above 900 Fault  | 100%   | Nickel | 2012       | 1,371,000 | 1.16 |           | -    | 1,371,000 | 1.16 | 15,900  |
|                  |        | Copper |            |           | 0.75 |           | -    |           | 0.75 | 10,300  |
|                  |        | Cobalt |            |           | 0.06 |           | -    |           | 0.06 | 800     |
| Savannah North   | 100%   | Nickel | 2012       | -         | -    | 6,650,000 | 1.42 | 6,650,000 | 1.42 | 94,500  |
|                  |        | Copper |            |           | -    |           | 0.61 |           | 0.61 | 40,900  |
|                  |        | Cobalt |            |           | -    |           | 0.10 |           | 0.10 | 6,700   |
| Total (Equity)   |        | Nickel |            |           |      | _         |      | 8,021,000 | 1.38 | 110,400 |
|                  |        | Copper |            |           |      |           |      |           | 0.64 | 51,200  |
|                  |        | Cobalt |            |           |      |           |      |           | 0.09 | 7,500   |

#### Notes:

Figures have been rounded and therefore may not add up exactly to the reported totals

Savannah Reserve average cut-off grade 1.02% Ni equivalent.

Savannah North Reserve cut-off grade is 0.80% Ni

#### Cross references to previous Company ASX announcements:

refer to ASX announcement of 30 September 2016, titled "Mineral Resources and Ore Reserves at 30 June 2016"

refer to ASX announcement of 2 February 2017, titled "Savannah Feasibility Study. Ten year life with minimal restart capital requirements"

#### No New Information or Data

The Ore Reserve estimates tabled above for Savannah North has been previously reported, and the relevant market announcements cross referenced. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of the estimates of Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

#### **Competent Person Statement**

The information in this presentation that relates to Ore Reserves for Savannah (above 900) is based on information compiled by or reviewed by Simon Curd (MAusIMM). The aforementioned is a full-time employee of Savannah Nickel Mines Pty Ltd. The aforementioned has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking 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. The aforementioned consents to the inclusion in the release of the matters based on their information in the form and context in which it appears.

# RESOURCES: Platinum Group Metals at 30 June 2019



|                             |          | Grade              |                    |         |             |             |             |             |             |           | Contain   | ed Metal |                |                 |                 |
|-----------------------------|----------|--------------------|--------------------|---------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|----------|----------------|-----------------|-----------------|
| Resource                    | Equity   | JORC<br>Compliance | JORC<br>Compliance | Tonnage | Pt<br>(g/t) | Pd<br>(g/t) | Rh<br>(g/t) | Au<br>(g/t) | Ag<br>(g/t) | Cu<br>(%) | Ni<br>(%) | Co<br>%  | Pt-Eq<br>(g/t) | Pt<br>(oz ,000) | Pd<br>(oz ,000) |
| Thunder Bay North           |          |                    |                    |         |             |             |             |             |             |           |           |          |                |                 |                 |
| Open Pit                    | 100%     | 2004               |                    |         |             |             |             |             |             |           |           |          |                |                 |                 |
| Indicated                   |          |                    | 8,460,000          | 1.04    | 0.98        | 0.04        | 0.07        | 1.50        | 0.25        | 0.18      | 0.014     | 2.13     | 283            | 267             |                 |
| Inferred                    |          |                    | 53,000             | 0.96    | 0.89        | 0.04        | 0.07        | 1.60        | 0.22        | 0.18      | 0.014     | 2.00     | 2              | 2               |                 |
| Underground                 | 100%     | 2004               |                    |         |             |             |             |             |             |           |           |          |                | -               |                 |
| Indicated                   |          |                    | 1,369,000          | 1.65    | 1.54        | 0.08        | 0.11        | 2.60        | 0.43        | 0.24      | 0.016     | 3.67     | 73             | 68              |                 |
| Inferred                    |          |                    | 472,000            | 1.32    | 1.25        | 0.06        | 0.09        | 2.10        | 0.36        | 0.19      | 0.011     | 2.97     | 20             | 19              |                 |
| Sub-total – Thu             | nder Bay | North (Equity)     | 10,354,000         | 1.13    | 1.07        |             |             |             |             |           |           |          | 377            | 355             |                 |
|                             |          |                    |                    |         |             |             |             |             |             |           |           |          |                |                 |                 |
| Panton                      |          |                    |                    |         |             |             |             |             |             |           |           |          |                |                 |                 |
| Top Reef                    | 100%     | 2012               |                    |         |             |             |             |             |             |           |           |          |                |                 |                 |
| Measured                    |          |                    | 4,400,000          | 2.46    | 2.83        | -           | 0.42        | -           | 0.08        | 0.28      | -         | -        | 348            | 400             |                 |
| Indicated                   |          |                    | 4,130,000          | 2.73    | 3.21        | -           | 0.38        | -           | 0.09        | 0.31      | -         | -        | 363            | 426             |                 |
| Inferred                    |          |                    | 1,560,000          | 2.10    | 2.35        | -           | 0.38        | -           | 0.13        | 0.36      | -         | -        | 105            | 118             |                 |
| Middle Reef                 | 100%     | 2012               |                    |         |             |             |             |             |             |           |           |          |                | -               |                 |
| Measured                    |          |                    | 2,130,000          | 1.36    | 1.09        | -           | 0.10        | -           | 0.03        | 0.18      | -         | -        | 93             | 75              |                 |
| Indicated                   |          |                    | 1,500,000          | 1.56    | 1.28        | -           | 0.10        | -           | 0.04        | 0.19      | -         | -        | 75             | 62              |                 |
| Inferred                    |          |                    | 600,000            | 1.22    | 1.07        | -           | 0.10        | -           | 0.05        | 0.19      | -         | -        | 24             | 21              |                 |
| Sub-total – Panton (Equity) |          |                    | 14,320,000         | 2.19    | 2.39        |             |             |             |             |           |           |          | 1,008          | 1,102           |                 |
|                             |          |                    |                    |         |             |             |             |             |             |           |           |          |                |                 |                 |
| Total - PGM (Equity)        |          |                    |                    |         |             |             |             |             |             |           |           |          | 1,385          | 1,456           |                 |

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## **RESOURCES: Platinum Group Metals at 30 June 2019**

### **Qualifying Statements and Notes**

#### Notes

Thunder Bay North Open Pit Resource: The open pit Mineral Resource is reported at a cut-off grade of 0.59 g/t Pt-Eq within a Lerchs-Grossman resource pit shell optimized on Pt-Eq. The strip ratio (waste:ore) of this pit is 9.5:1. The platinum-equivalency formula is based on assumed metal prices and overall recoveries. The Pt-Eq formula is: Pt-Eq g/t = Pt g/t + Pd g/t x 0.3204 + Au g/t x 0.6379 + Ag g/t x 0.0062 + Cu g/t x 0.00011 + Total Ni g/t x 0.000195 + Total Co g/t x 0.000124 + Rh g/t x 2.1816. The conversion factor shown in the formula for each metal represents the conversion from each metal to platinum on a recovered value basis. The assumed metal prices used in the Pt-Eq formula are: Pt US\$1,595/oz, Pd US\$12/oz, Au US\$1,015/oz, Ag US\$15.74/oz, Cu US\$2.20/lb, Ni US\$7.71/lb, Co US\$7.71/lb and Rh US\$3,479/oz. The assumed combined flotation and PlatsoITM process recoveries used in the Pt-Eq formula are: Pt 76%, Pd 75%, Au 76%, Ag 55%, Cu 86%, Ni 44%, Co 28% and Rh 76%. The assumed refinery payables are: Pt 98%, Pd 98%, Au 97%, Ag 85%, Cu 100%, Ni 100%, Co 100% and Rh 98%.

Thunder Bay North Underground Resource: The underground mineral resource is reported at a cut-off grade of 1.94g/t Pt-Eq. The Pt-Eq formula is: Pt-Eq g/t = Pt g/t + Pd g/t x 0.2721 + Au g/t x 0.3968 + Ag g/t x 0.0084 + Cu g/t x 0.000118 + Sulphide Ni g/t x 0.000433 + Sulphide Co g/t x 0.000428 + Rh g/t x 2.7211. The assumed metal prices used in the Pt-Eq formula are: Pt US\$1,470/oz, Pd US\$400/oz, Rh US\$4,000/oz, Au US\$875/oz, Ag US\$14.30/oz, Cu US\$2.10/lb, Ni US\$7.30/lb and Co US\$13.00/lb. The assumed process recoveries used in the Pt-Eq formula are: Pt 75%, Pd 75%, Rh 75%, Au 50%, Ag 50%, Cu 90%, and Ni and Co in sulphide 90%. The assumed smelter recoveries used in the Pt-Eq formula are Pt 85%, Pd 85%, Au 85%, Ni 90% and Co 50%. Ni and Co in sulphide were estimated by linear regression of MgO to total Ni and total Co respectively. The regression formula for Ni in sulphide (NiSx) is: NiSx = Ni - (MgO% x 60.35 - 551.43). The regression formula for Co in sulphide (CoSx) is: CoSx = Co - (MgO% x 4.45 - 9.25).

#### Cross references to previous ASX announcements:

Thunder Bay North Open Pit Resources – refer to Magma Metals Limited (ASX:MMW) announcement of 7 February 2011, titled "Positive Scoping Study for Thunder Bay North Project" Thunder Bay North Underground Resources – refer to Magma Metals Limited (ASX:MMW) announcement of 23 February 2012, titled "Magma Metals Increases Mineral Resources at TBN to 790,000 Platinum-Equivalent Ounces"

Panton - refer to the Company's ASX announcement of 30 September 2015, titled "Mineral Resources and Ore Reserves at 30 June 2015"

#### No New Information or Data

The Mineral Resource estimates tabled in this presentation have been previously reported, and the relevant market announcements cross referenced. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.