

23 September 2021

## Diamond Drilling Underway To Test New High-Grade Bulgera Gold Zone

### Highlights:

- **10-hole diamond drill programme to test the new high-grade gold zone at the Bulgera open pit has commenced**
- **Metallurgical testing of three gold bearing Bulgera samples returned high gravity and leach recoveries, fast leach kinetics and low cyanide & lime consumption**

**Norwest Minerals Limited** (“Norwest” or “the Company”) (ASX: NWM) is pleased to announce the commencement of diamond drilling at its 100% owned Bulgera Gold Project. The drilling will test the new high-grade gold lode at approximately 400m and 700m downdip from the shallow Bulgera open-cut. The 10-hole drilling programme includes 2,500 metres of RC pre-collars (completed this week), and 1,400 metres of diamond core tails designed to penetrate well below the high-grade RC drill intercepts reported last May<sup>1</sup>.

Norwest has also conducted preliminary metallurgical tests on three gold bearing composite samples collected from RC holes drilled through the new gold zone. The results show very high gravity and leach recoveries, fast leach kinetics and low cyanide & lime consumption.

Norwest’s CEO, Mr. Charles Schaus commented: *“Diamond drilling to test the new high-grade gold zone is expected to reveal an enormous amount of information concerning the lode-scale geology and controls on the gold mineralisation. Importantly, a deep diamond drill intersection similar to those encountered up-dip by RC drilling would be a significant step in understanding the magnitude of this high-grade gold discovery.*

*In addition, the preliminary metallurgical work on Bulgera gold RC chips indicates potential for high gold recoveries from a simple low-cost processing circuit”*

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<sup>1</sup> ASX: NWM – Announcement 11 May 2021, ‘High-Grade Gold Zone Developing at Bulgera, 16m @ 7g/t Au (inc. 3m @ 30g/t Au)’

## Bulgera Diamond Drilling

RC pre-collar drilling for 10 HQ diamond core tails was completed this week. Most of the RC pre-collar holes extended to within 100 metres of the gold zone target. The diamond drill rig is now on site and will soon commence drilling from the base of the RC pre-collared holes down through the interpreted extension of the Bulgera high-grade gold zone. (Figure 1)

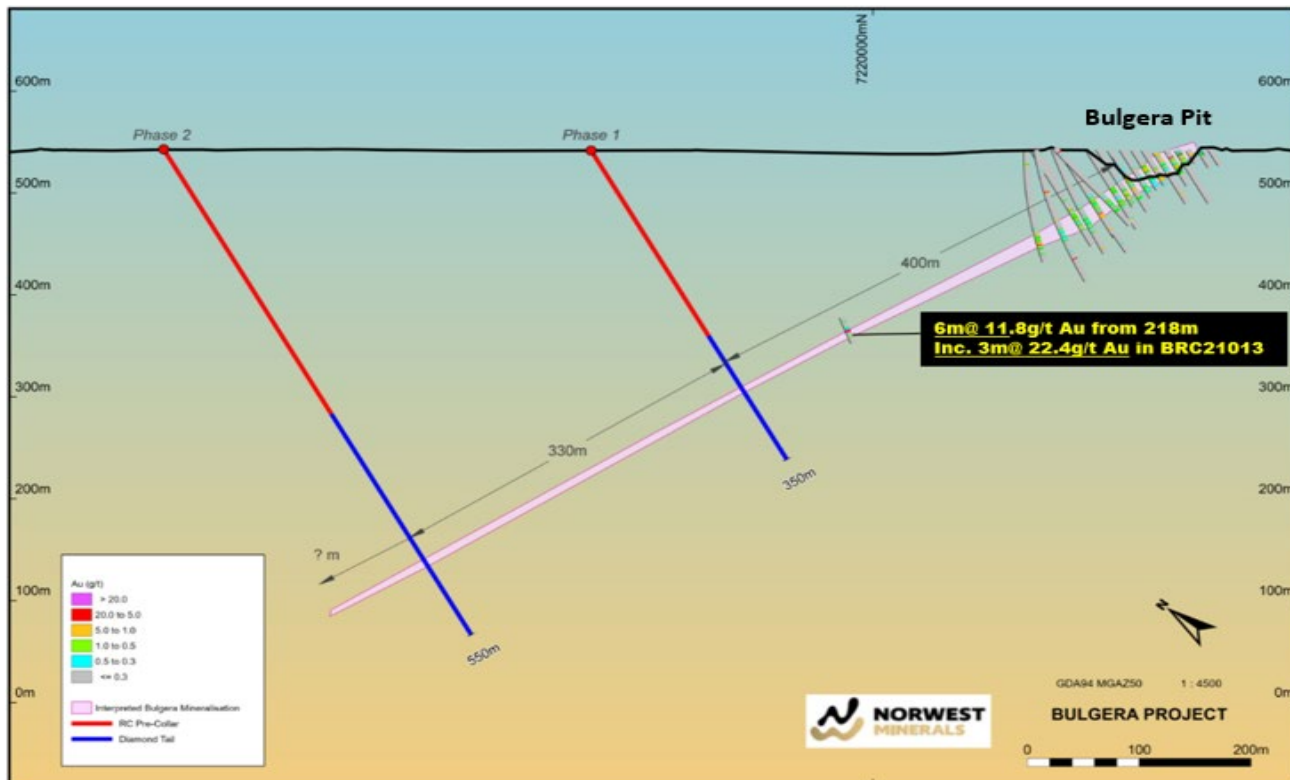


Figure 1 – Schematic cross-section showing RC pre-collars (red) with diamond drill tails (blue) targeting the potential high-grade gold mineralisation (pink) extending down-dip from the Bulgera open-cut.

Phase 1 (P1) diamond drilling consists of 7 holes. The first two holes will test the new gold zone close to where RC holes BRC21001, BRC21013 and BRC21015 reported wide high-grade gold intercepts. The RC chips hosting the gold mineralisation in these holes display minimal alteration & shearing and little sulphides mineralisation, with hole BRC21015 finishing in 19g/t gold mineralisation due to its 'uninteresting' visual appearance. The diamond core from this area is expected to reveal much about controls on the Bulgera gold mineralisation via close inspection of the geology and structure within the solid HQ core lengths taken from within the new gold zone.

The other five P1 holes will test for gold mineralisation ~400m down dip of the Bulgera open pit being well below any previous drilling undertaken across on the Bulgera Project. A strong gold intersection from one or more of these five diamond holes will have significant implications regarding the continuity and the magnitude of any future Bulgera gold resource estimation.

Phase 2 (P2) diamond drilling is designed to test the continuation of the gold zone a further 330m down dip from the P1 holes being 730m down dip from the Bulgera open pit. The decision to drill the P2 holes will ultimately depend on the geological information gathered from the core and gold intersections returned from the P1 drilling. Drill locations and targets for the P1 & P2 diamond drilling are displayed in figures 2 & 3 below.

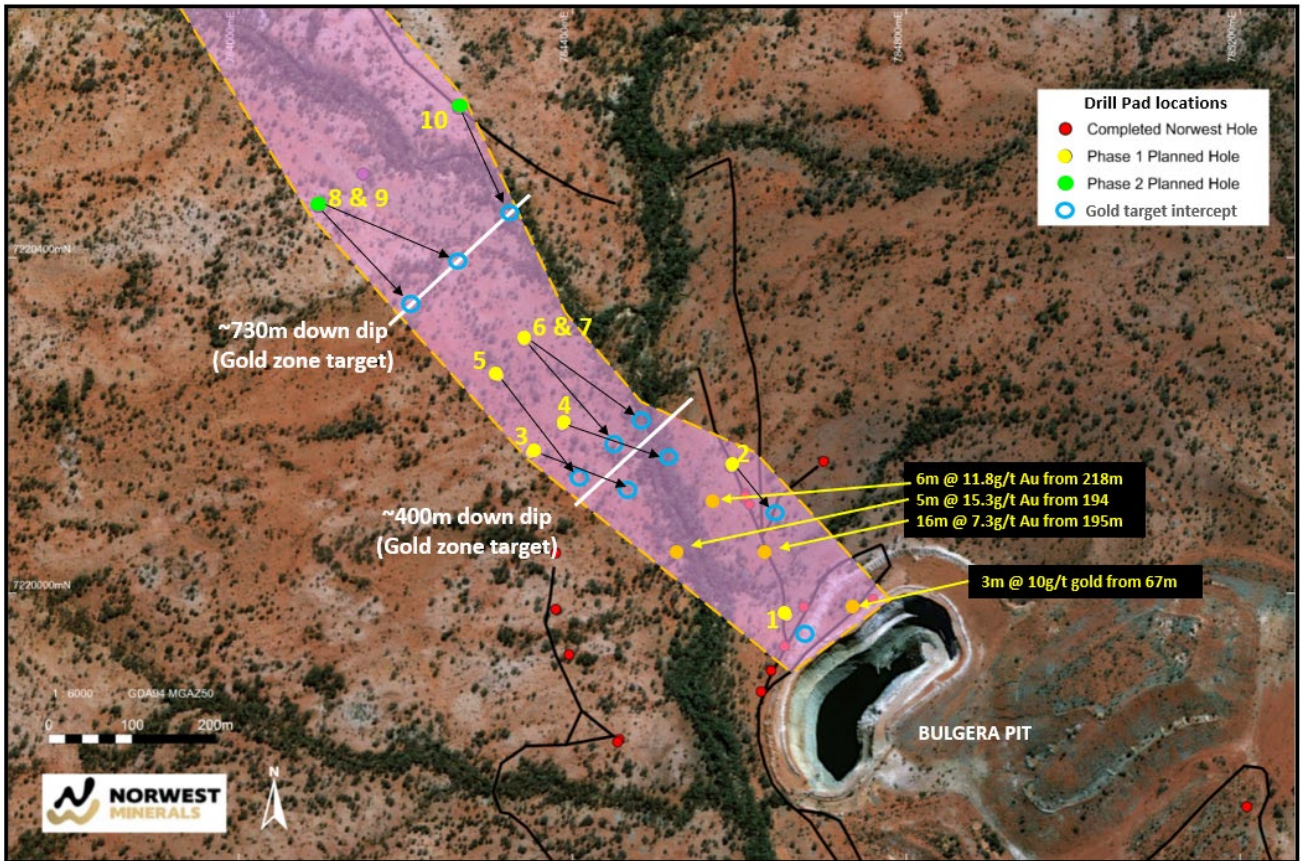


Figure 2 – Map showing diamond drill pad locations (yellow), drill target intercepts (blue circle) and interpreted gold mineralisation zone dipping 45 degrees to the northwest (pink).

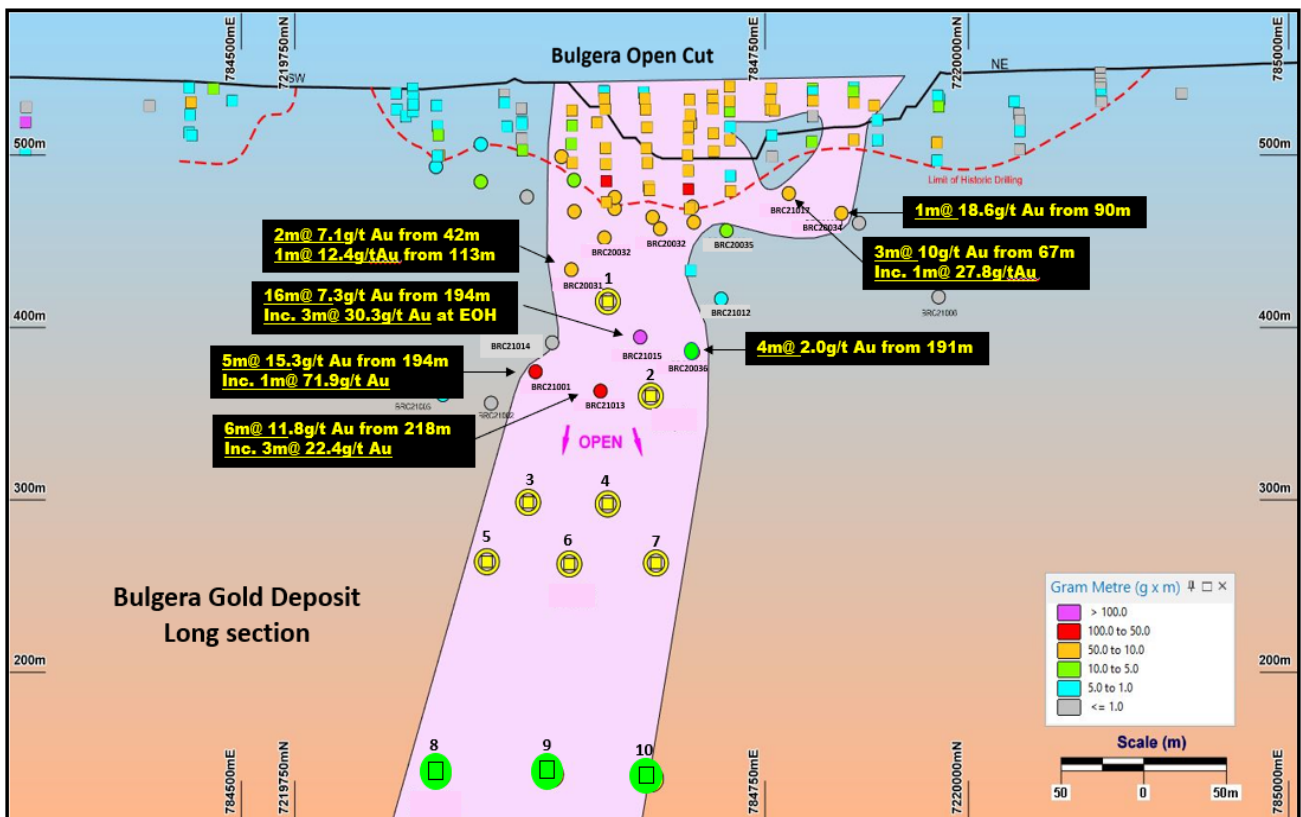


Figure 3 – Bulgera deposit long section with Phase 1 and Phase 2 diamond drill intercept points targeting potential extension of high-grade gold zone (pink).

### Metallurgical Test Work Results

Preliminary metallurgical testing was undertaken by ALS Global Metallurgical Services on three Bulgera gold RC samples. The average gold grades for the three samples were 1.74g/t, 4.43g/t and 8.66g/t respectively.

All 3 gold samples returned excellent flow sheet and processing characteristics including:

- High gravity separation and mercury amalgamation of the gravity concentrate to yield significant free liberated gravity recoverable gold (GRG) of 28.80%, 39.08% and 47.46% for composites 1 to 3 respectively.
- High total extractable gold (via gravity plus standard leach) for composite 1 to 3 with overall gold recoveries of 95.6%, 92.6% and 98.3% respectively.
- Fast gold leach kinetics for all gravity leach tests with the majority of the gold leaching in the first 2-4 hours.
- Low sodium cyanide and lime consumption rates with Perth tap water for all leach tests.
- Low levels of organic carbon decreasing the likelihood of preg-robbing of gold in solution during cyanidation.
- Low concentrations of base metals decreasing the possibility of excess cyanide consumption through preferential complexing with these metals.
- Low levels of arsenic, decreasing the likelihood of refractory gold deportment.
- Low levels of antimony, thus avoiding high pH which may form passivating oxide layers on the gold surfaces, which can have a detrimental effect on gold cyanidation.

This ASX announcement has been authorised for release by Charles Schaus, Chief Executive Officer and Director of Norwest Minerals Limited.

For further information, visit [www.norwestminerals.com.au](http://www.norwestminerals.com.au) or contact

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## **FORWARD LOOKING STATEMENTS**

This report includes forward-looking statements. These statements relate to the Company's expectations, beliefs, intentions or strategies regarding the future. These statements can be identified by the use of words like "will", "progress", "anticipate", "intend", "expect", "may", "seek", "towards", "enable" and similar words or expressions containing same.

The forward-looking statements reflect the Company's views and assumptions with respect to future events as of the date of this announcement and are subject to a variety of unpredictable risks, uncertainties, and other unknowns. Actual and future results and trends could differ materially from those set forth in such statements due to various factors, many of which are beyond our ability to control or predict. Given these uncertainties, no one should place undue reliance on any forward-looking statements attributable to the Company, or any of its affiliates or persons acting on its behalf. The Company does not undertake any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Neither the Company nor any other person, gives any representation, warranty, assurance, nor will guarantee that the occurrence of the events expressed or implied in any forward-looking statement will actually occur. To the maximum extent permitted by law, the Company and each of its advisors, affiliates, related bodies corporate, directors, officers, partners, employees and agents disclaim any responsibility for the accuracy or completeness of any forward-looking statements whether as a result of new information, future events or results or otherwise.

## **COMPETENT PERSON'S STATEMENTS**

### **Mineral Resource Estimate**

The information in this report that relates to mineral resource estimation is based on work completed by Mr. Stephen Hyland, a Competent Person and Fellow of the AusIMM. Mr. Hyland is Principal Consultant Geologist with Hyland Geological and Mining Consultants (HGMC) and holds relevant qualifications and experience as a qualified person for public reporting according to the JORC Code in Australia. Mr. Hyland is also a Qualified Person under the rules and requirements of the Canadian Reporting Instrument NI 43-101. Mr. Hyland consents to the inclusion in this report of the information in the form and context in which it appears.

### **Exploration**

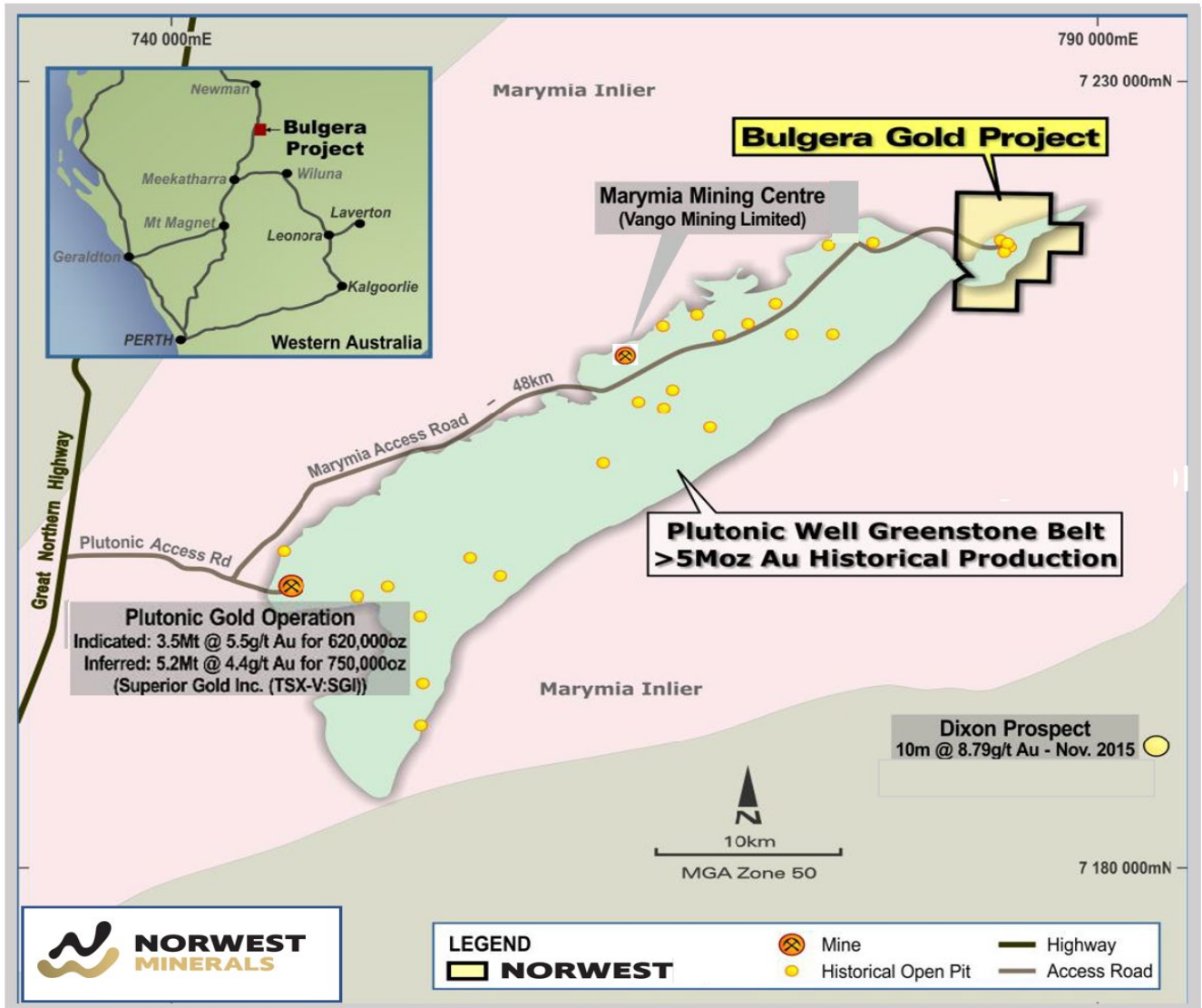
The information in this report that relates to Exploration Results and Exploration Targets is based on and fairly represents information and supporting documentation prepared by Charles Schaus (CEO of Norwest Minerals Pty Ltd). Mr. Schaus is a member of the Australian Institute of Mining and Metallurgy and has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to its activities undertaken to qualify as Competent Persons as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr. Schaus consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.

### **About the Bulgera Gold Project**

*The Bulgera Gold Project comprises two granted exploration licences, E52/3316 and E52/3276, covering 36.8km<sup>2</sup> over the northeast end of the Plutonic Well Greenstone Belt, 200km northeast of Meekatharra. The project is located 20km northeast of the Marymia mining centre and 48km via existing haul road from the operating Plutonic gold mine which has produced over 5.5 million ounces of gold since 1990. The Plutonic mine is owned by Toronto listed Superior Gold Inc. (TSX-V:SGI).*

*The project contains four shallow open pits that have undergone two phases of mining between 1996 and 1998 and again between 2003 and 2004. Mining of the four pits being Bulgera, Mercuri, Venus and Price produced a reported 440,799 tonnes of ore @ 1.65 g/t Au for 23,398 ounces. The ore was treated at the Marymia mining centre during the first phase and the Plutonic processing facility during the second phase.*

## Bulgera Gold Project location map



Map of the Plutonic Well Greenstone belt showing the Bulgera Gold Project.

The Bulgera greenstone package has been interpreted as a faulted extension of the Marymia mine sequence across a system of curved thrusts where Marymia and Bulgera are offset. This is supported by the similarity in lithologies between the deposits and the magnetics which show the drag of the Bulgera trends into the interpreted fault structures<sup>2</sup>.

Vango Mining Ltd (ASX: VAN) is aggressively exploring the Marymia tenements along the mafic-ultramafic mine sequence where they have made a number of high-grade gold discoveries including the Trident deposit being 1.59Mt @ 8g/t gold for 410,000 ounces. In June 2020 Vango announced a 1moz Marymia resource.

The Bulgera Gold Project location is endowed with infrastructure including the large Plutonic Gold Mine operating nearby, 2 x gas-fired power stations, overhead transmission power lines, bore fields, airstrip and camp facilities.

Norwest acquired the Bulgera Gold Project for \$220,000 in July 2019 and in September 2019 reported a JORC resource of 2Mt @1.03g/t gold for 65,500 ounces<sup>3</sup>.

Following Norwest's maiden RC drilling programme at Bulgera in December 2019, the Gold Resources were upgraded in April 2020 to:

<sup>2</sup> Richards, R., May 2016. Information Memorandum, Bulgera Gold Project, Plutonic Well Greenstone Belt, WA

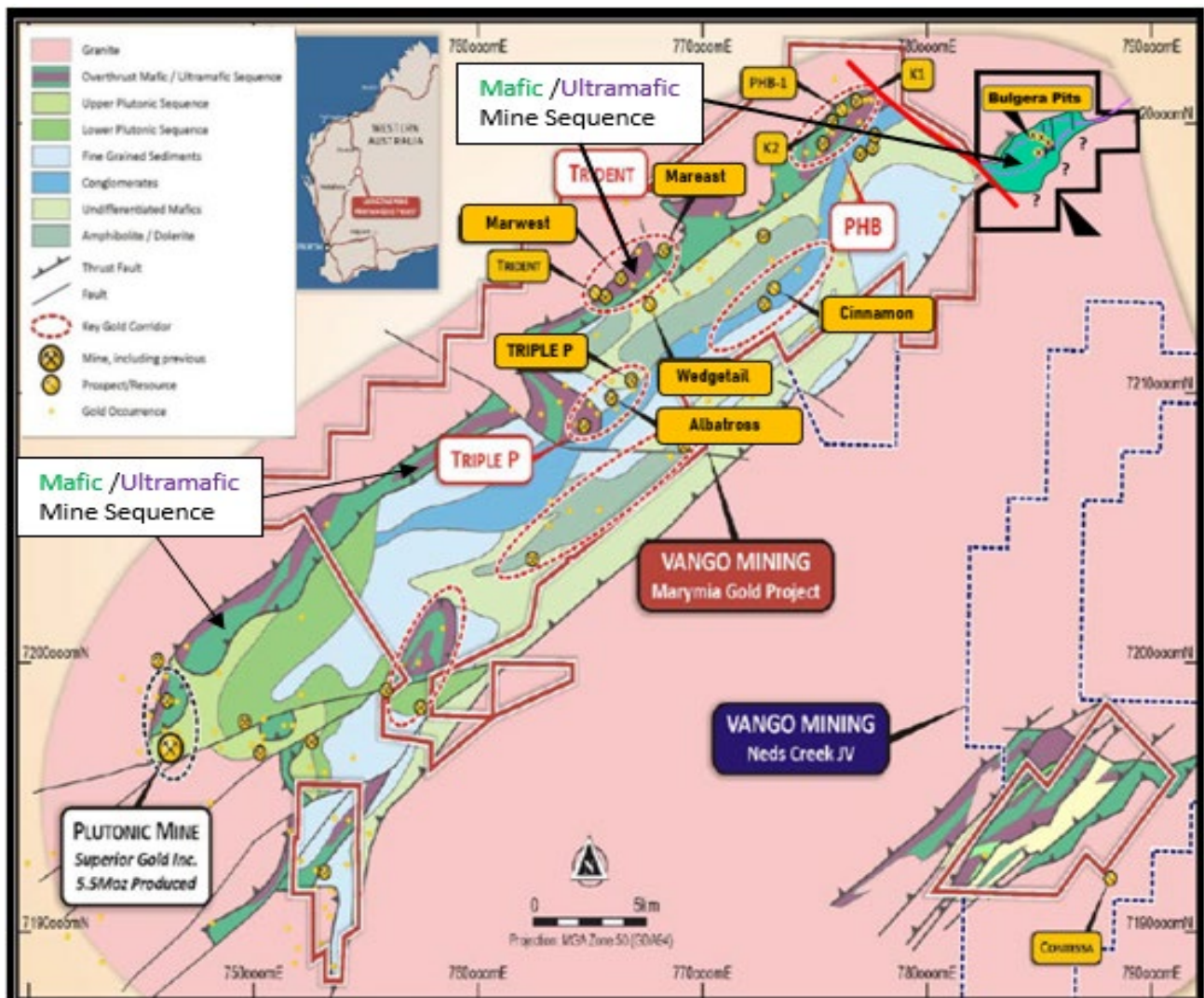
<sup>3</sup> ASX: NWM – Announcement 8 April 2020, 'Bulgera Gold Resources increase 43%, aircore drilling underway'

The JORC 2012 compliant Mineral Resource for the Bulgera Gold project applying a 0.6g/t lower Au cut-off

Indicated Resources			Inferred Resources			Total Resources		
Mt	Au (g/t)	Ounces	Mt	Au (g/t)	Ounces	Mt	Au (g/t)	Ounces
2.06	1.0	66,230	0.86	1.0	27,650	2.92	1.0	93,880

The Bulgera gold trend is the extension of the Plutonic (+5.5moz)<sup>4</sup> and Vango (+1moz)<sup>5</sup> mafic-ultramafic mine sequence where drilling has shown that gold tenor increases with depth. Nearby, Vango's drilling within the mafic-ultramafic mine sequence has consistently shown that the highest gold grades are located below 100m which is evidenced by their many ASX announcements; the most recent being released on 23 June 2021<sup>6</sup>.

Norwest's recently completed RC drilling program successfully intersected high-grade extensions to known gold mineralisation by drilling +150m below the existing Bulgera and Mercuri shallow open pits<sup>7</sup>. Norwest has commenced diamond drilling between 400m and 750m down dip of the Bulgera deposit open pit.



The Plutonic Well Greenstone Belt geology showing the mafic-ultramafic mine sequence (primary gold host) running along the northwest edge in contact with the granites.

<sup>4</sup> Superior Gold Inc., Website [www.superior-gold.com](http://www.superior-gold.com) & Resolute Ltd Marymia production

<sup>5</sup> ASX: VAN – Announcement 20 May 2020, 'Marymia Minerals Resource Increases to One Million Ounces'

<sup>6</sup> ASX: VAN – Announcement 23 June 2021, 'Presentation – Gold Coast Investment Showcase 23-24 June 21'

<sup>7</sup> ASX: NWM - Announcement 11 May 2021, 'High-Grade Zone Developing at Bulgera'