
28 April 2022

Presentation on Q3 March FY22 Quarterly Report and audio webcast

Mr Craig Jetson, Managing Director & CEO, will brief analysts and investors on the Q3 March FY22 Quarterly Report at 10:00am Australian Eastern Standard Time (UTC + 10 hours) on Thursday 28 April 2022.

Analysts and investors can register for the briefing at <https://s1.c-conf.com/diamondpass/10020980-6dsdf9.html>

An audio webcast will be available live and after the event on St Barbara's website at stbarbara.com.au/investors/webcast/ or by [clicking here](#). The audio webcast is 'listen only' and does not enable questions.

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Q3 March FY22 Quarterly Presentation

Craig Jetson
Managing Director and CEO
28 April 2022

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Non-IFRS financial information: We supplement our financial information reporting determined under International Financial Reporting Standards (“IFRS”) with certain non-IFRS financial measures, including cash operating costs. Details of these are set out in the Supplement.

Financial figures are in Australian dollars unless otherwise noted. Financial year is 1 July to 30 June. This presentation is not audited.

Mineral Resources and Ore Reserves reporting

Any information in this presentation that relates to St Barbara Mineral Resources or Ore Reserves estimates (other than Bardoc estimates) has been extracted from the ASX announcement released by St Barbara titled “Ore Reserves and Mineral Resources Statements 31 December 2021” dated 18 February 2022 which is available to view on www.stbarbara.com.au and www.asx.com.au.

Any information in this presentation that relates to Bardoc Gold Project Mineral Resource and Ore Reserve estimates has been extracted from the ASX announcement released by St Barbara titled “Q3 March FY22 Quarterly Report” dated 28 April 2022 which is available to view on www.stbarbara.com.au.

St Barbara confirms that it is not aware of any new information or data that materially affects the information included in the announcements referred to above (Original Announcements) and that all material assumptions and technical parameters underpinning the Mineral Resources and Ore Reserves estimates in the Original Announcements continue to apply and have not materially changed. St Barbara confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the Original Announcements.

Full details of recent exploration results are in ASX release titled “Q3 March FY22 Quarterly Report” dated 28 April 2022 which is available to view on www.stbarbara.com.au.

Australian Securities Exchange (ASX) Listing code “SBM”
American Depositary Receipts (ADR OTC code “STBMY”) through BNY Mellon,
www.adrbnymellon.com/dr_profile.jsp?cusip=852278100

Published 28 April 2022



Acknowledgement of Country

We at St Barbara acknowledge the First Nations people of the ancestral lands on which we operate in Australia, Canada and Papua New Guinea. We pay our respects to all First Nations people, and to Elders past, present, and emerging.

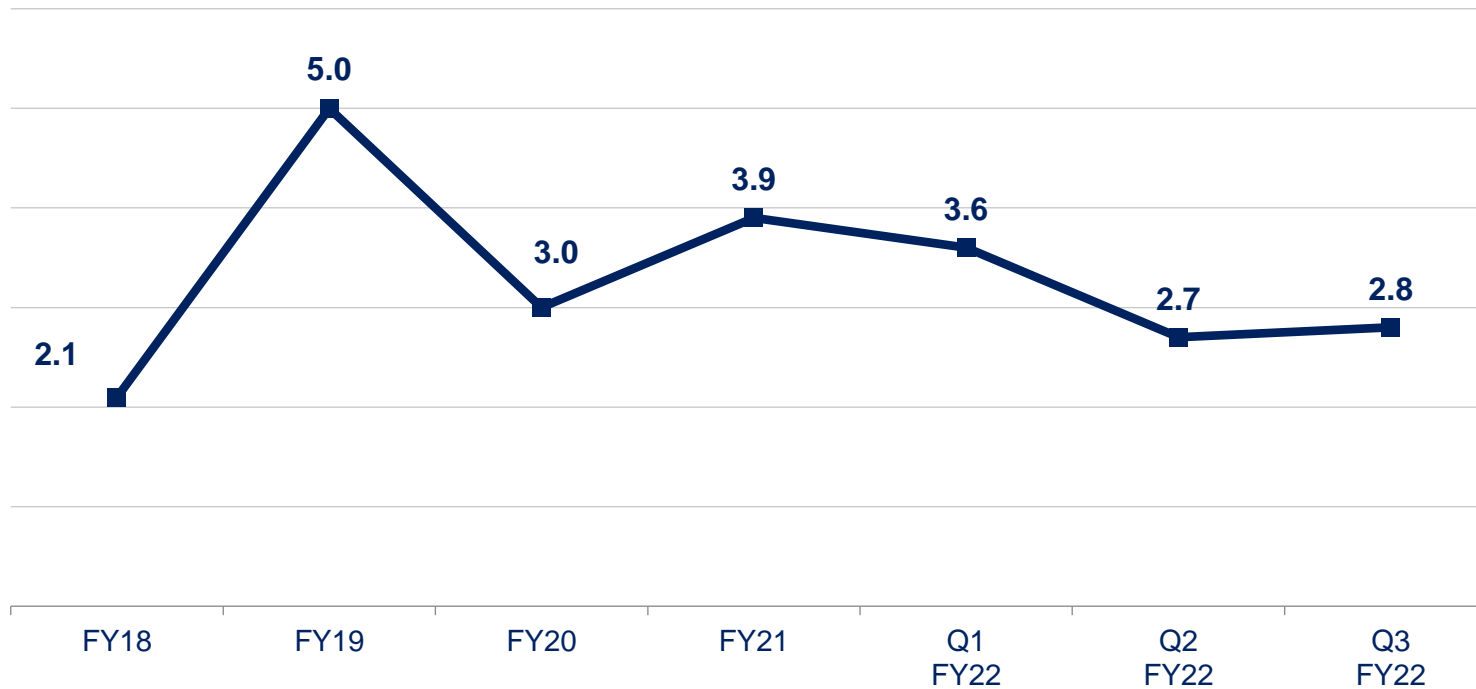
We recognise the unique cultural heritage, beliefs and connection to these lands, waters and communities held by First Nations people. We also recognise the importance of the continued protection and preservation of cultural, spiritual and educational practices.

Because we value treating all people with respect, we are committed to building successful and mutually beneficial relationships with the First Nations peoples throughout our areas of operation.



Safety always

TOTAL RECORDABLE INJURY FREQUENCY RATE (TRIFR)¹



Safety Always

Zero harm is always our target. Zero harm to all people as we responsibly operate our assets to their full potential. This focus on safety guides everything we do.

¹. Total Recordable Injury Frequency Rate (12 month avg.), total recordable injuries per million hours worked



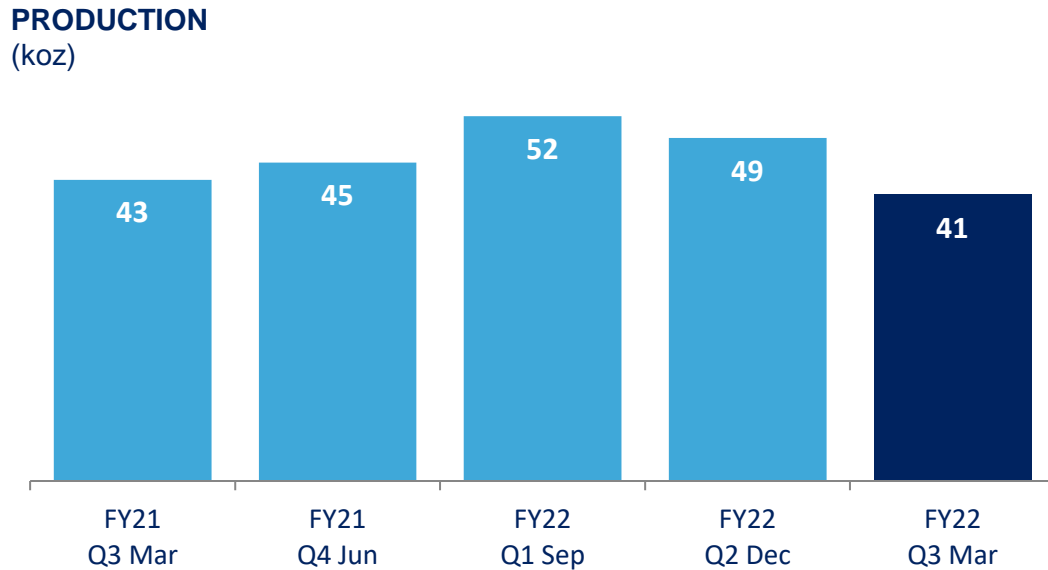
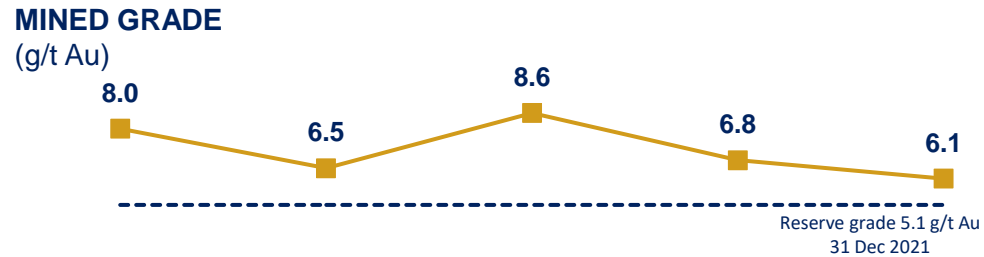
Key achievements Q3 FY22

- Group gold production steady at 61,819 oz
- All-in Sustaining Costs¹ of A\$2,290/oz
- Acquisition of Bardoc Gold completed
 - Increasing Group Ore Reserves by 7% to 6.2Moz and Group Mineral Resource by 22% to 16.5Moz
 - Accelerated development of the Zoroastrian deposit to bring first ore from mine in Q1 FY24
- Simberi recommenced production
- Continued positive drill results in Old South Gwalia

1. All-in Sustaining Costs (AISC) are a non-IFRS measure. Please refer to the slide in the supplement for more detail



Leonora Q3 FY22 Results



Production impacted by lower mill throughput and gold grade

- Mill throughput down 9% due to lower availability of stockpile and purchased ore
- Milled grade impacted in Q3 by fall of ground, rehabilitation complete ensuring access high grade ore stopes in Q4
- New jumbo development drills to deliver accelerated development in Q4
- Lower gold production raised AISC

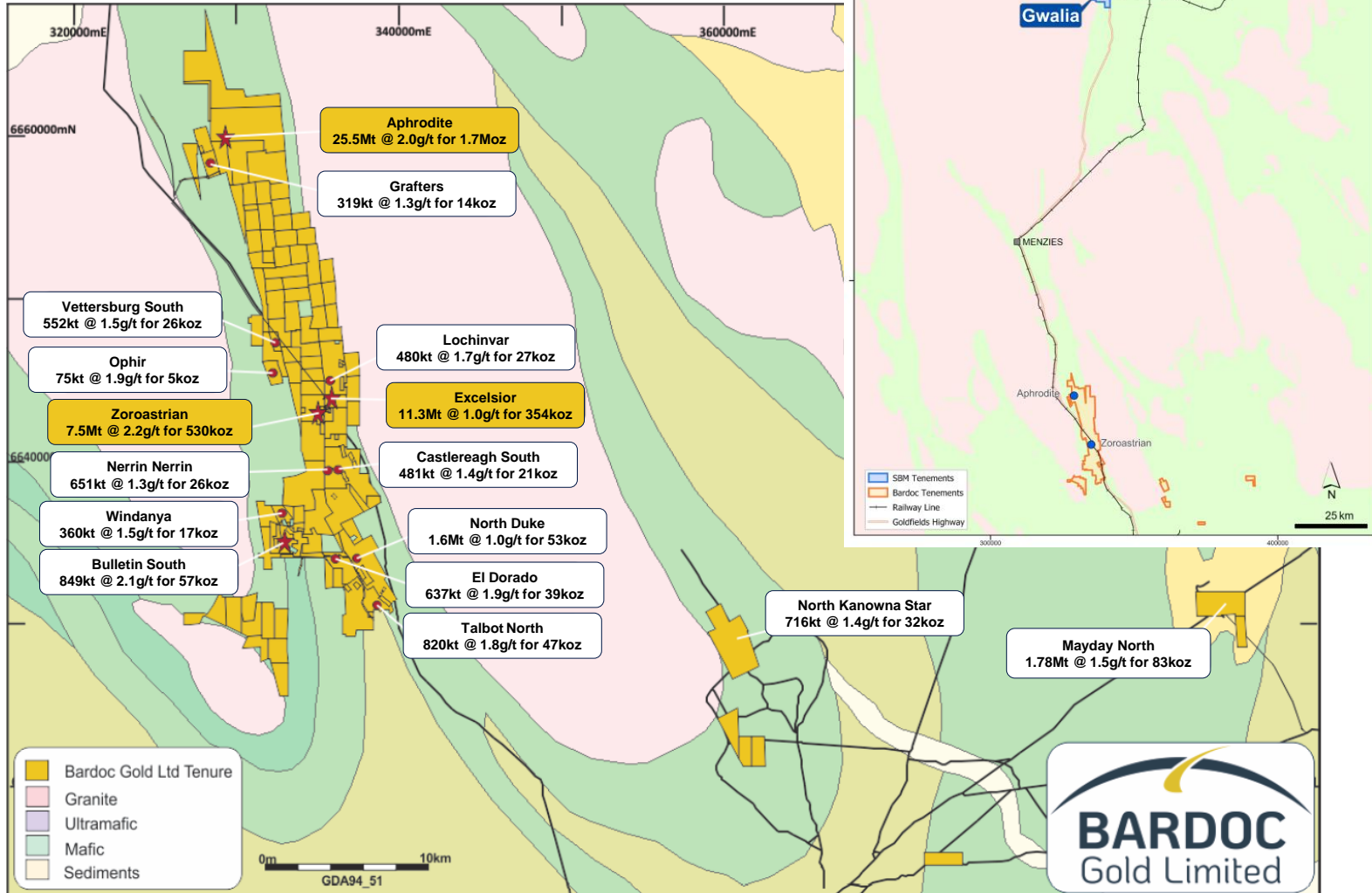


Acquisition of Bardoc Gold complete

About Bardoc Gold

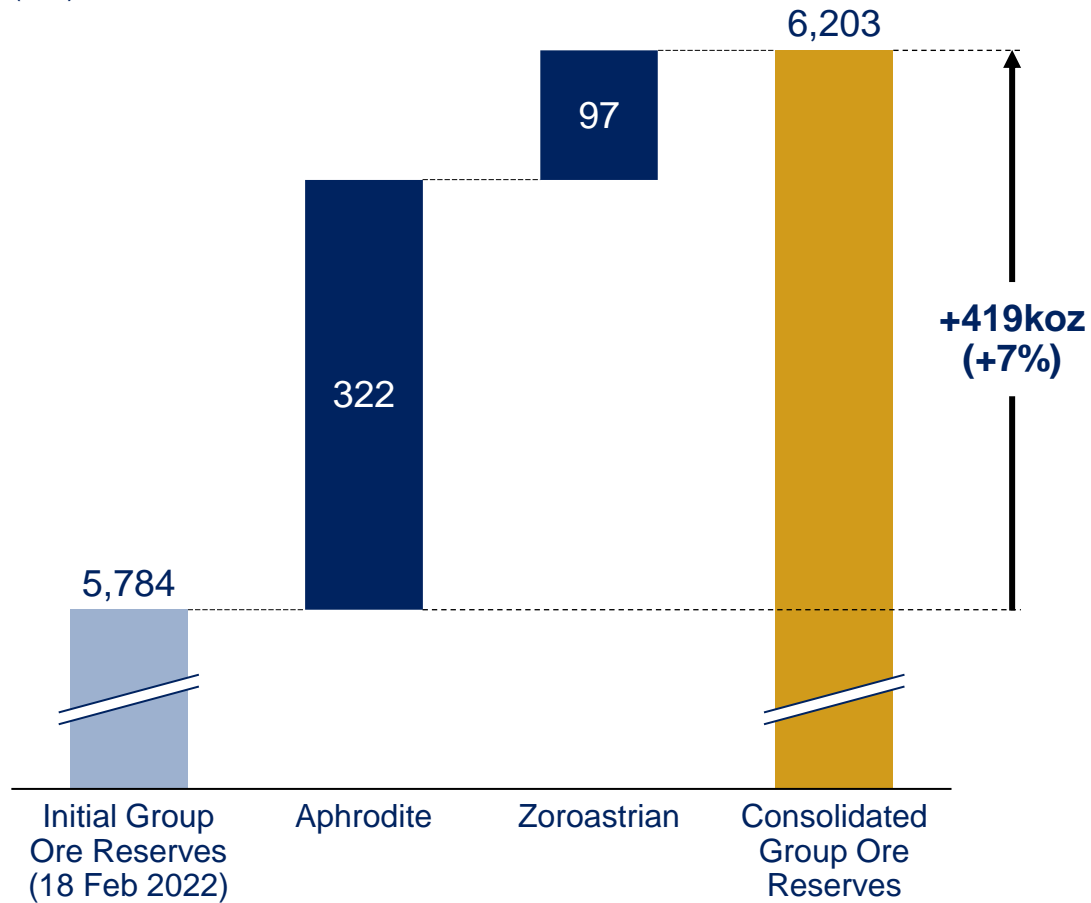
- 3.0Moz Mineral Resources & 0.4Moz Ore Reserves
- Large contiguous tenement package located ~180km south of Leonora by rail
- Aphrodite and Zoroastrian higher grade deposits ready for development
- Synergies to be achieved by delivering Bardoc ore to the Leonora process plant via adjacent rail line

Bardoc tenement overview

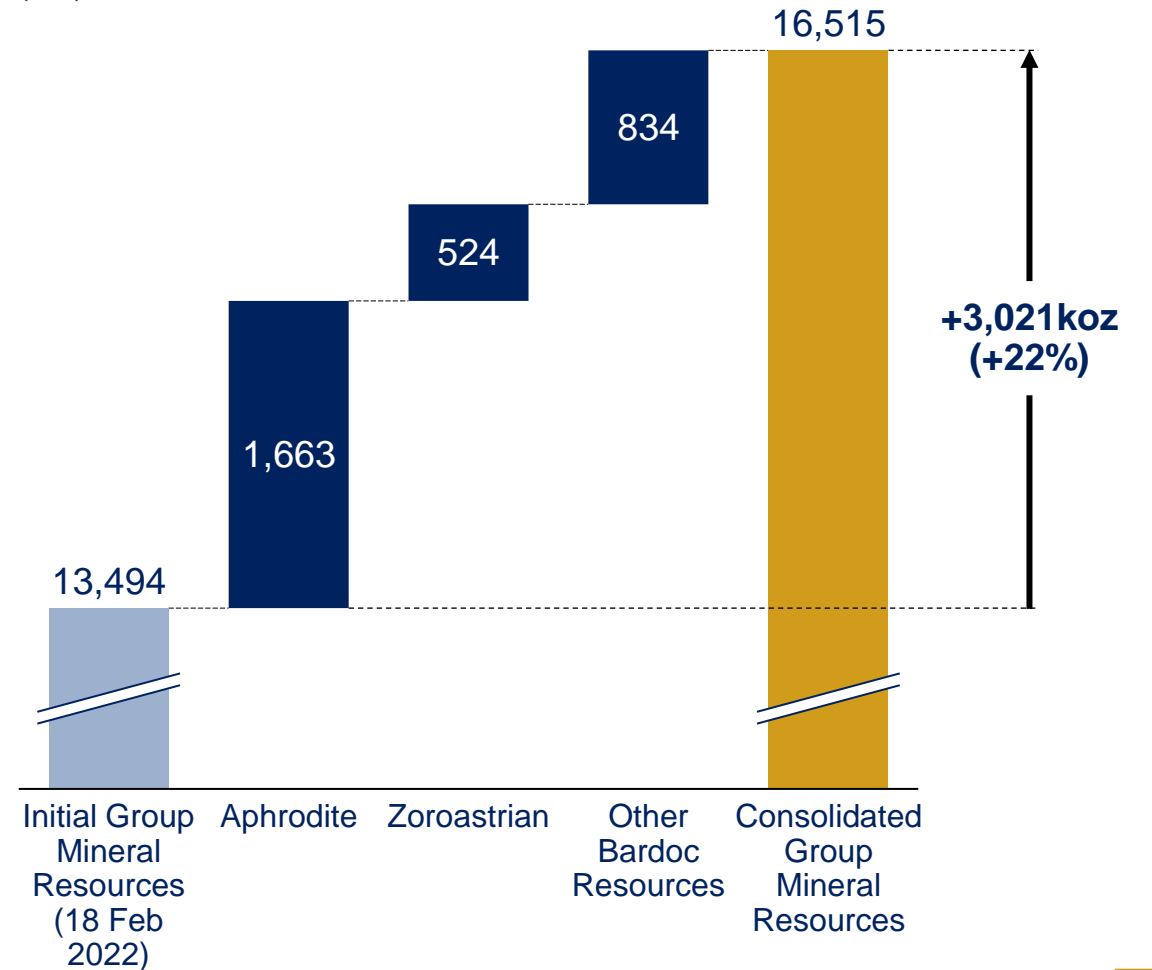


Acquisition grows St Barbara Resources by 3Moz

7% GROWTH IN GROUP ORE RESERVES
(koz)



22% GROWTH IN GROUP MINERAL RESOURCES
(koz)



Accelerated Leonora Province plan

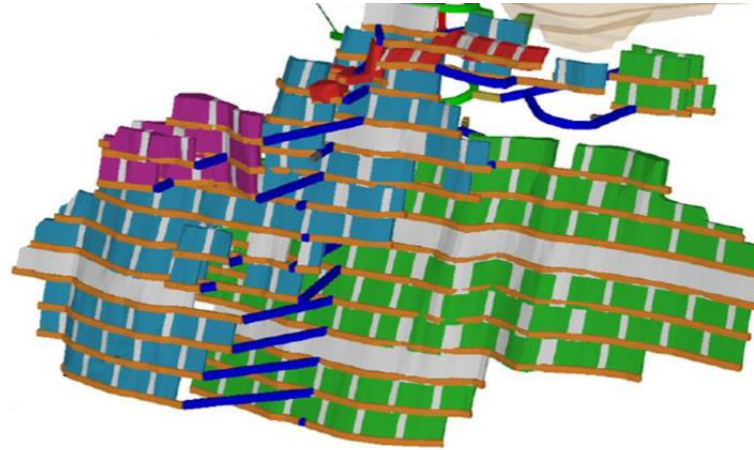
Event	Initial target date	Updated target date
Feasibility Study for Leonora mill expansion to 2.1Mtpa & Refractory ore processing complete	Q2 FY23	Q3 FY23
Mobilisation of mining contractor for Aphrodite and Zoroastrian underground mines	Q3 FY23	Q2 FY23
Commence construction of Leonora expansion to 2.1Mtpa with refractory ore processing capability	Q3 FY23	
Construction of Zoroastrian underground mine portal commences	Q4 FY23	Q3 FY23
Construction of Aphrodite underground mine portal commences	Q1 FY24	
Zoroastrian underground mine first ore	H2 FY24	Q1 FY24
Leonora processing plant expansion to 2.1Mtpa complete	Q4 FY24	
Aphrodite underground mine & Leonora mill refractory ore processing commences	H1 FY25	

First ore from the Zoroastrian mine now expected in Q1 FY24

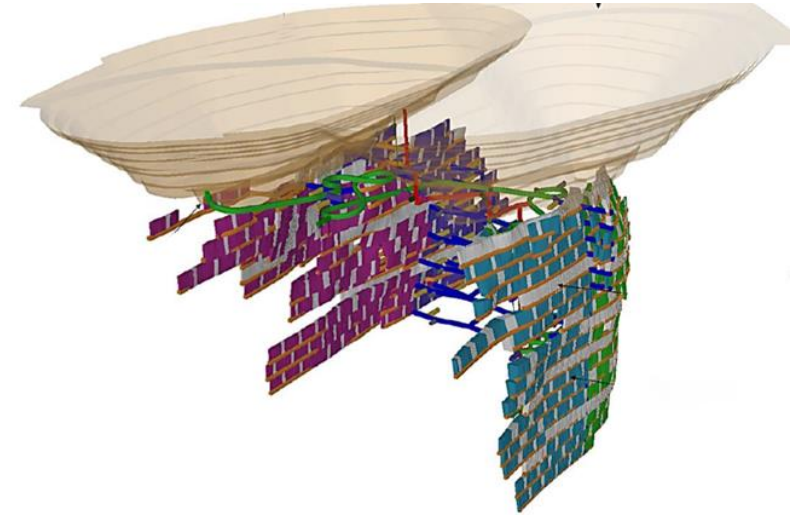


Two new underground mines ready to be developed

Zoroastrian underground mine



Aphrodite underground mine



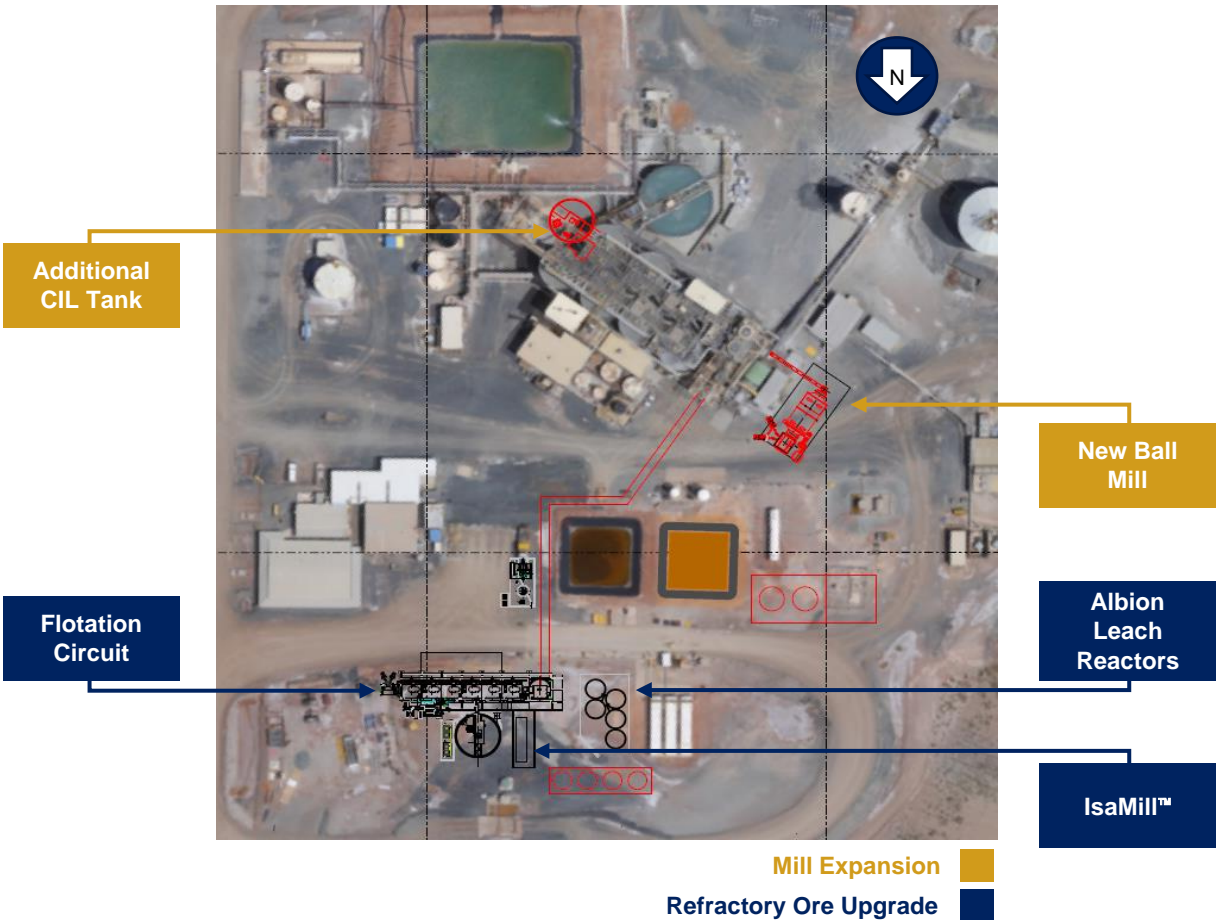
Total Mineral Resources	1.6Mt @ 4.0 g/t Au	6.7Mt @ 3.6 g/t Au
Capital cost to develop ¹	Estimated A\$15M	Estimated A\$30M
Ore type	Free-mill	Refractory
Mining method	Longhole open stoping	Longhole open stoping
Targeted construction commencement	Q3 FY23	Q1 FY24
Targeted first production	Q1 FY24	H1 FY25
Permitting	Mining Proposal and Closure Plan Approved	Mining Proposal and Closure Plan Submitted

¹. Preliminary estimate only, to be the subject of detailed analysis as part of proposed Leonora Province Plan Pre-Feasibility study

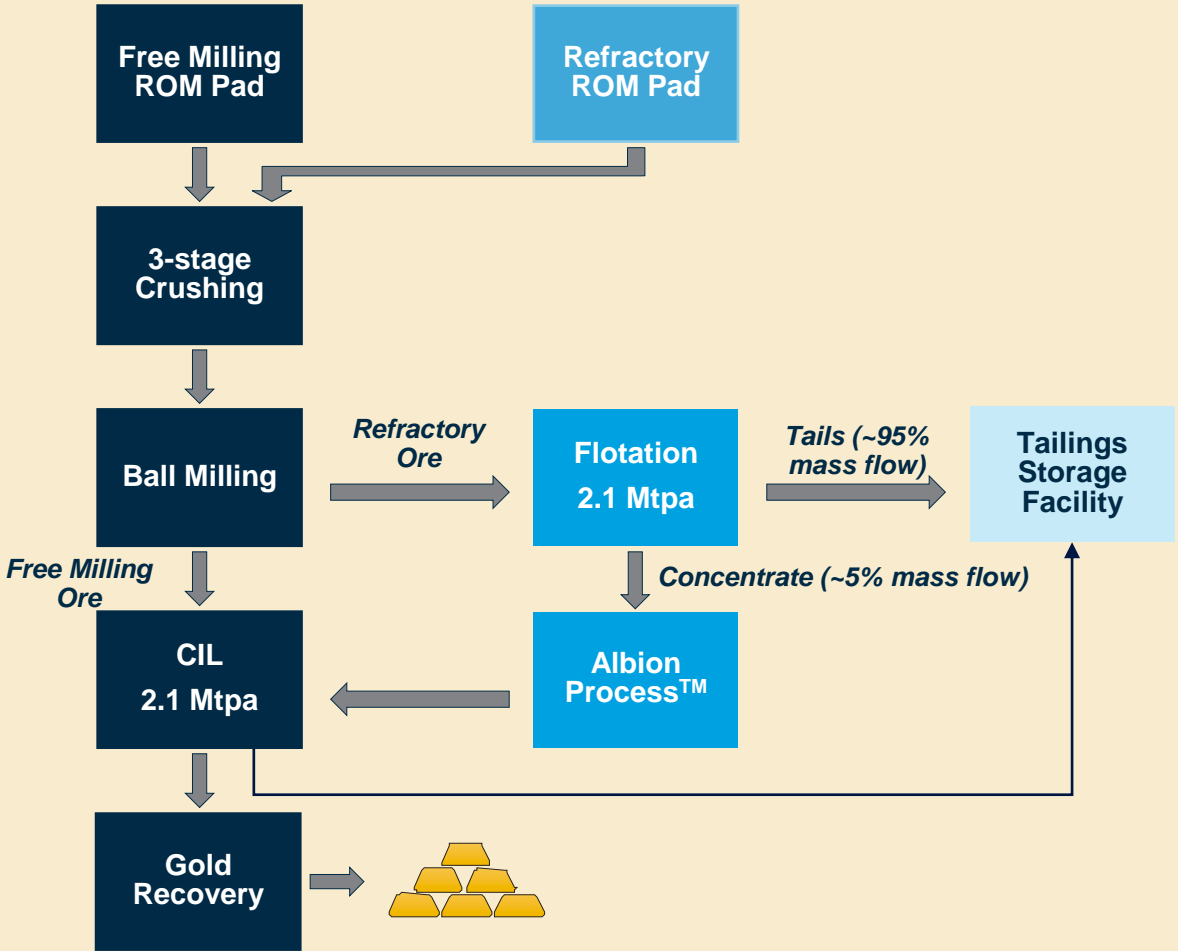


Creating a unique processing hub

Increasing processing capacity to 2.1Mtpa and adding refractory capability



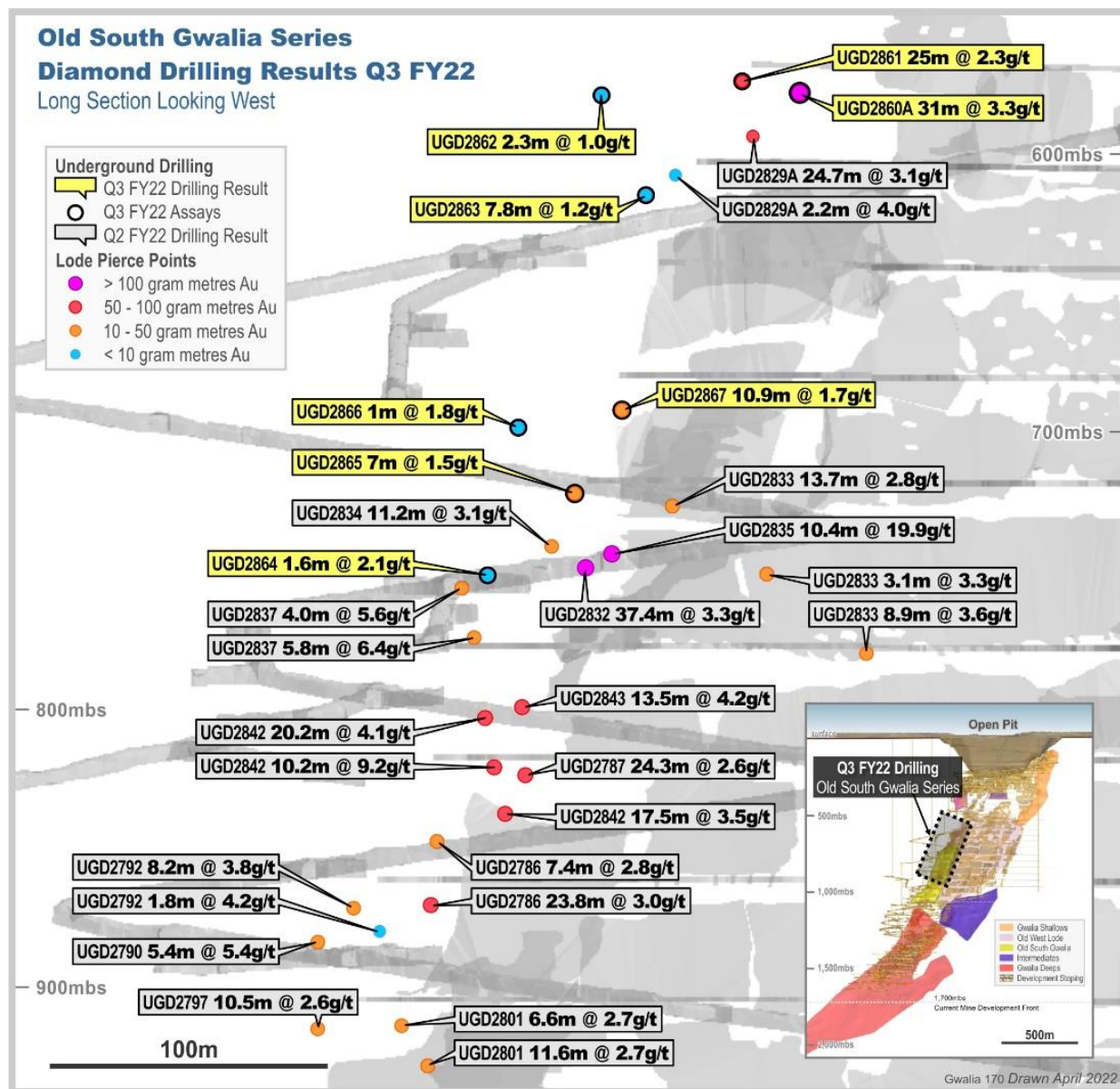
Leonora processing plant layout



Process flow diagram



Encouraging drill results continue



Simberi Q3 FY22 Results

AISC

(A\$/oz)



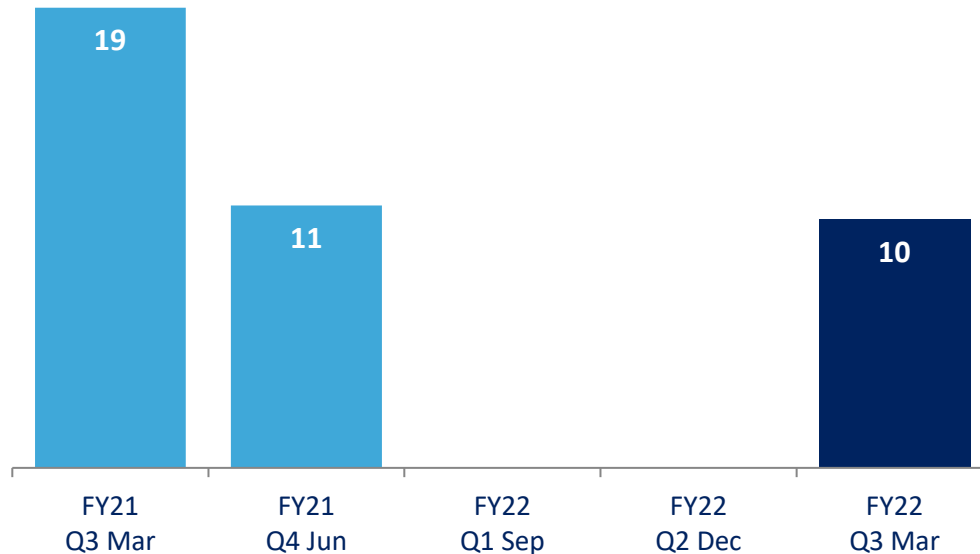
MILLED GRADE

(g/t Au)



PRODUCTION

(koz)



Production recommenced in January

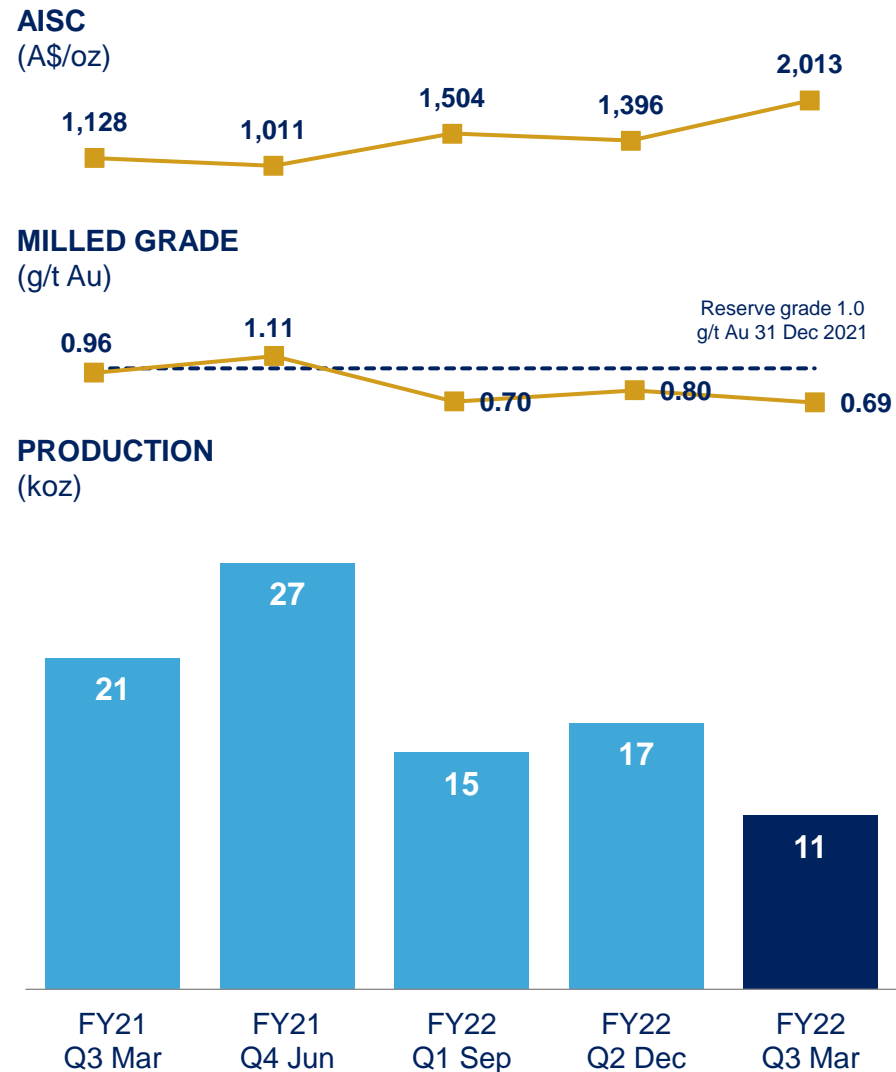
- Return to low COVID-19 case numbers
- Production impacted by staff availability
- Higher site costs resulting from COVID-19 management and lower production resulted in high AISC

Sulphide project update

- Replacement of the PNG Minister of Environment which has seen delays in the issuance of permits
 - Final Investment Decision delayed until Conservation and Environmental Protection Authority has confirmed the grant of the conditional environmental permit
- Work continues on optimising various aspects of the near-complete FEED study



Atlantic Q3 FY22 Results

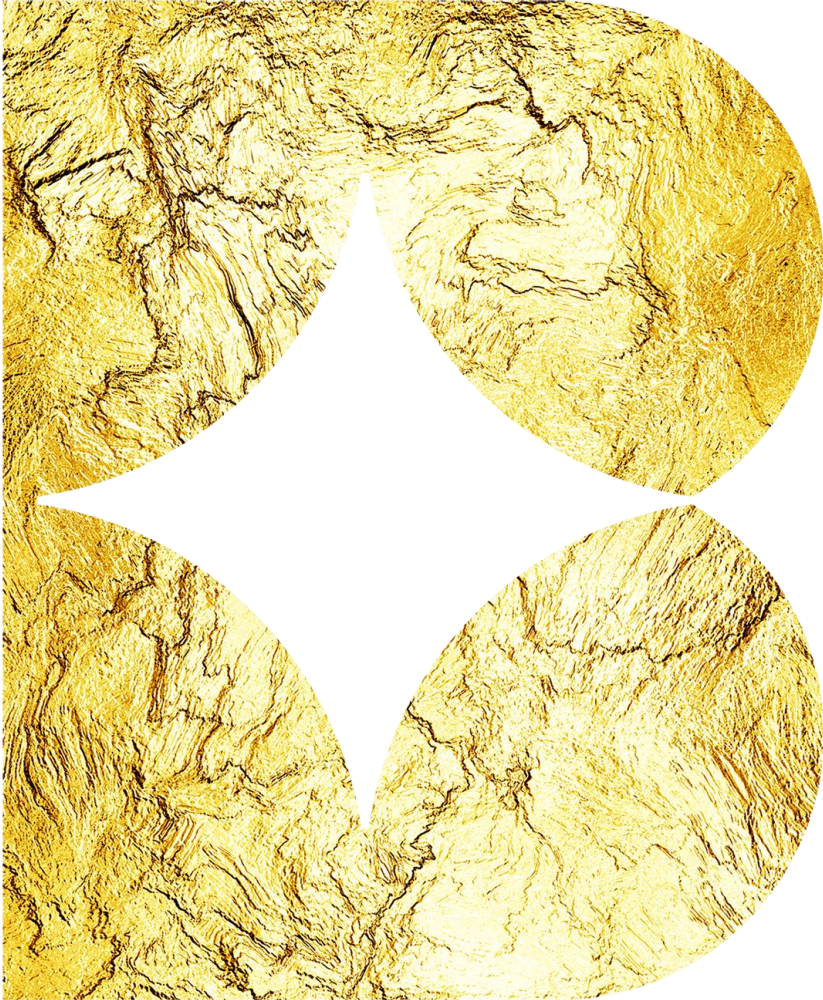


Production declining as Touquoy approaches end of life

- Severe weather events impacted crushing and mill throughput
- On track to deliver guidance
- Sufficient waste rock permits for remainder of mine
- Beaver Dam on track to submit round 3 information request for EIS by Q1 FY23
- Fifteen Mile Stream modelling and sampling underway for first round information request for EIS



Delivering the Leonora Province Plan



Acquisition of Bardoc Gold complete

Group Ore Reserves up 7% to 6.2Moz

Group Mineral Resources up 22% to 16.5Moz

Zoroastrian first production targeted Q1 FY24

Continued strong drilling results from Old South Gwalia



Supplementary slides



FY22 Guidance

Operation	Production (koz)	AISC (A\$/oz)	Capex (\$AM)	
			Sustaining	Growth
Atlantic Operations	55 – 65	1,650 – 1,850 ¹	5 – 10	15 – 20
Leonora Operations	180 – 200	1,605 – 1,720	55 – 65	10 – 15
Simberi Operations	25 – 30	3,200 – 3,600 ²	5 – 10	35 – 40
Consolidated	275 – 290	1,750 – 1,870	65 – 85	60 - 75

1. C\$1,500 to C\$1,685 per ounce at AUD/CAD of 0.91
2. US\$2,400 to US\$2,700 per ounce at AUD/USD of 0.75



Competent persons statement

Exploration Results

The information in this presentation that relates to Exploration Results is based on information compiled by Dr Roger Mustard, who is a Member of The Australasian Institute of Mining and Metallurgy. Dr Mustard is a full-time employee of St Barbara and has sufficient experience relevant to the style 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'. Dr Mustard consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Non-IFRS measures

We supplement our financial information reporting determined under International Financial Reporting Standards (IFRS) with certain non-IFRS financial measures, including cash operating costs. We believe that these measures provide meaningful information to assist management, investors and analysts in understanding our financial results and assessing our prospects for future performance.

All-In Sustaining Cost (AISC)	All-In Sustaining Cost is based on Cash Operating Costs, and adds items relevant to sustaining production. It includes some, but not all, of the components identified in World Gold Council's Guidance Note on Non-GAAP Metrics - All-In Sustaining Costs and All-In Costs (June 2013). Refer most recent quarterly report available at stbarbara.com.au for example.
Cash contribution	Cash flow from operations before finance costs, refer reconciliation of cash movement in the most recent quarterly report available at stbarbara.com.au
Cash operating costs	Calculated according to common mining industry practice using The Gold Institute (USA) Production Cost Standard (1999 revision). Refer most recent quarterly report available at stbarbara.com.au for example



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Scheduled ASX Announcements

27 July 2022

FY22 Q4 June Quarterly Report





St Barbara