

- **Q3 March FY18 production of 85,885 ounces at AISC¹ of A\$982 per ounce**
- **FY18 Simberi & consolidated production guidance increased²**
- **New Gwalia Life of Mine Plan to FY 2031³**
- **\$262 million cash at bank with no debt⁴**

Executive Summary

Operations

- **Consolidated gold production** for the quarter ended 31 March 2018 (Q3 March FY18) was 85,885 ounces (Q2 Dec FY18: 99,509 ounces).
- **Consolidated All-In Sustaining Cost (AISC)** for Q3 March FY18 was A\$982 per ounce (Q2 Dec: A\$910 per ounce). The average realised gold price for Q3 March FY18 was A\$1,710 per ounce (Q2 Dec: A\$1,686 per ounce).
- **Gwalia** (Western Australia) gold production for Q3 March FY18 was 56,773 ounces (Q2 Dec: 62,835 ounces) at AISC of A\$905 per ounce (Q2 Dec: A\$859 per ounce). Mined grade for Q3 March FY18 was 15.0 g/t Au (Q2 Dec: 11.2 g/t Au) with 127 kt milled (Q2 Dec: 187 kt).
- **Simberi** (PNG) gold production for Q3 March FY18 was 29,112 ounces (Q2 Dec: 36,674 ounces) at AISC of A\$1,129 per ounce (Q2 Dec: A\$994 per ounce).

Health & Safety

- The Total Recordable Injury Frequency Rate (TRIFR) increased from 2.4 at the end of Q2 December FY18 to 2.6 at the end of Q3 March FY18, as a result of one low-severity medically treated recordable injury.

Gwalia Extension Project

- Work on the Gwalia Extension Project (GEP) continued during the quarter. The Project remains on schedule and within budget.
- The Project consists of two main components, a ventilation upgrade and paste aggregate fill (PAF). PAF involves mixing paste from surface with waste crushed underground to fill stope cavities.
- PAF commissioning is expected to be delayed due to a variety of items, comprising delays in the supply of components, in preparation of the voids on the levels

at 1420 and 1460 metres below surface (mbs) where the machinery will be located, and in completing the hole to 1420 mbs for the high-voltage cable.

- The GEP project plan now anticipates some concurrent raiseboring of ventilation shafts.

Exploration

- **Gwalia** (Western Australia) - Activities focused on defining extensions to the Gwalia lode system continued during Q3 March FY18, including surface and underground drilling.
- Data interpretation of a **3D seismic program** targeting a 15 km² area around Gwalia prioritised two target areas immediately north and south of the Gwalia deposit between 600 mbs and 1900 mbs. A drilling program is scheduled for Q4 June 2018.
- Drilling of GWDD19 from surface to **2,600 mbs** continued, targeting potential extensions of the lode system at depth, the deepest hole yet at Gwalia. This hole will be completed during April 2018.
- **Pinjin** (Western Australia) - Final results were received for the 163 hole (PJAC01385 to PJAC1547) 10,658 metre aircore drill program completed in December 2017 (Figures 4.0 to 4.4 and Table 1). A 3,760 metre Reverse Circulation (RC) drilling program for 19 holes commenced in March 2018 (see summary on page 8 and details in Figures 4.0 and 4.5).
- **Simberi Island** (PNG) - A single 750 metre drill hole re-commenced to test a conceptual porphyry copper-gold potential below the Pigiput open cut. Drilling seeking to identify more sulphide material to enhance the potential sulphide project also commenced during the quarter.
- **Option and Farm-in with Newcrest** - Two diamond drill holes (TTD085 and TTD086) for a total 1,503

¹ Non IFRS measure, refer appendix

² Announced 6 April 2018 in Q3 March FY18 production update

³ Announced 21 February 2018 in 'Gwalia mine medium and long-term outlook'

⁴ Financial information unaudited. Cash balance includes A\$1.2 million restricted cash.

metres were completed at Talik North on Tatau Island testing for copper-gold porphyry mineralisation during Q3 March FY18 (see details on page 9). Assay results were returned for TTD084 and TTD085 (Figure 6.2 and Table 2).

Finance (unaudited)

- Total cash at bank at 31 March 2018 was A\$262¹ million (31 December FY18: A\$216¹ million) after net dividend payments of \$16 million and a \$4 million investment in ABM Resources NL. There were 4,371 ounces of gold inventory on hand at 31 March 2018 (Q2 Dec: 6,822 ounces).
- The Company generated an operational cash contribution² in Q3 March FY18 of A\$79 million (Q2 Dec: A\$79 million).

Outlook

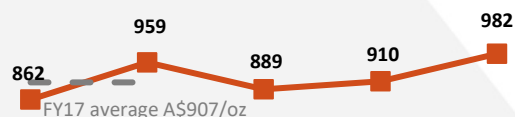
- Guidance for FY18 was revised upwards on 6 April 2018³ and is summarised as follows:
 - Forecast Gwalia gold production is unchanged at between 250,000 and 260,000 ounces at an AISC of between A\$840 and A\$880 per ounce, with sustaining capex of between A\$35 and A\$40 million, plus growth capex of between A\$45 to A\$50 million (previously A\$50 to A\$55 million).
 - Forecast Simberi gold production of between 125,000 and 132,000 ounces (previously 115,000 and 125,000 ounces) at an AISC of between A\$1,070 and A\$1,130 per ounce (previously A\$1,130 and A\$1,230 per ounce), with capex of between A\$4 and A\$5 million (previously A\$5 and A\$7 million).
 - Forecast exploration expenditure of between A\$14 and A\$18 million (previously A\$16 and A\$20 million), consisting of:
 - A\$6 to A\$8 million at Gwalia (previously A\$8 to A\$10 million)
 - A\$4 to A\$5 million at Pinjin in WA and
 - A\$4 to A\$5 million on the Tabar (Simberi) Island group in PNG⁴

Bob Vassie

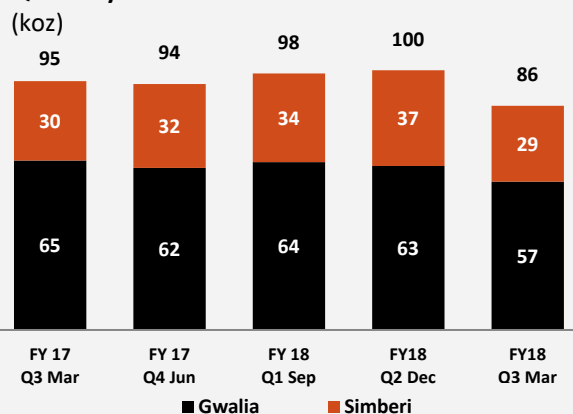
Managing Director and CEO
19 April 2018

Consolidated results

Quarterly AISC (A\$/oz)



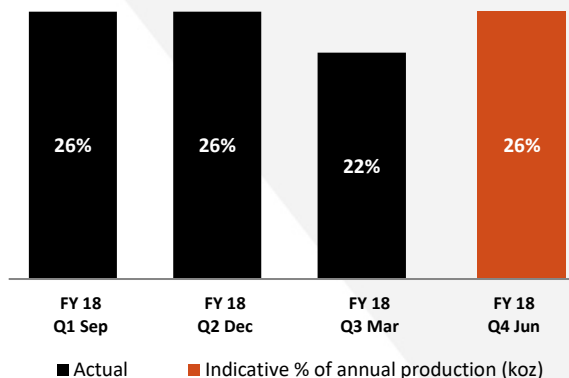
Quarterly Gold Production (koz)



Figures displayed to nearest thousand ounces. Reported ounces in associated table.

FY18 Production

Indicative Quarterly Guidance Profile



Quarterly presentation and audio webcast

Bob Vassie, Managing Director & CEO, will brief analysts and investors on the Q3 March FY18 Quarterly Report at 12:00 noon Australian Eastern Standard Time (UTC + 10 hours) on Thursday 19 April 2018. Participation on the conference call is by personal invitation only.

A live audio webcast will be available on the website at www.stbarbara.com.au/investors/webcast/ or by [clicking here](#). The audio webcast is 'listen only' and does not enable questions. The audio webcast will subsequently be made available on the website.

¹ Cash balance includes A\$1.2 M restricted cash (Q2 Dec: \$1.2 M).

² Non-IFRS measure, see cash movements table later in this quarterly report. Corresponds to Operational Cash Flow less sustaining capital, excludes growth capital of A\$7 M (Q2 Dec: \$11 M).

³ Announced 6 April 2018 in Q3 March FY18 production update

⁴ Excludes copper-gold porphyry exploration on the Tabar Island Group as part of the option and farm-in agreement with Newcrest.

St Barbara Gold Production & Guidance

Production Summary Consolidated		Year FY17	Q1 Sep FY18	Q2 Dec FY18	Q3 Mar FY18	Q3 YTD FY18	Guidance FY18 ¹
<i>St Barbara's financial year is 1 July to 30 June</i>		<i>Year to 30 June 2017</i>	<i>Qtr to 30 Sep 2017</i>	<i>Qtr to 31 Dec 2017</i>	<i>Qtr to 31 Mar 2018</i>	<i>9 mths to 31 Mar 2018</i>	<i>Year to 30 June 2018</i>
Production							
Gwalia	oz	265,057	64,283	62,835	56,773	183,891	250 to 260 koz
Simberi	oz	116,044	33,976	36,674	29,112	99,762	125 to 132 koz (prev. 115 to 125)
Consolidated	oz	381,101	98,259	99,509	85,885	283,653	375 to 392 koz (prev. 365 to 385)
Mined Grade							<u>Reserve grade²</u>
Gwalia	g/t	10.7	10.7	11.2	15.0	12.1	7.8
Simberi	g/t	1.13	1.21	1.32	1.16	1.24	1.3
Total Cash Operating Costs³							
Gwalia	A\$/oz	592	621	668	679	651	n/a
Simberi	A\$/oz	1,092	964	908	1,036	964	n/a
Consolidated	A\$/oz	689	740	757	800	761	n/a
All-In Sustaining Cost³							
Gwalia	A\$/oz	785	816	859	905	858	840 to 880
Simberi	A\$/oz	1,187	1,027	994	1,129	1,045	1,070 to 1,130 (prev. 1,130 to 1,230)
Consolidated	A\$/oz	907	889	910	982	924	920 to 970 (prev. 940 to 990)

Disclaimer

This report has been prepared by St Barbara Limited ("Company"). The material contained in this report is for information purposes only. This release is not an offer or invitation for subscription or purchase of, or a recommendation in relation to, securities in the Company and neither this release nor anything contained in it shall form the basis of any contract or commitment.

This report contains forward-looking statements that are subject to risk factors associated with exploring for, developing, mining, processing and the sale of gold. Forward-looking statements include those containing such words as anticipate, estimates, forecasts, indicative, should, will, would, expects, plans or similar expressions. Such forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company, and which could cause actual results or trends to differ materially from those expressed in this report. Actual results may vary

from the information in this report. The Company does not make, and this report should not be relied upon as, any representation or warranty as to the accuracy, or reasonableness, of such statements or assumptions. Investors are cautioned not to place undue reliance on such statements.

This report has been prepared by the Company based on information available to it, including information from third parties, and has not been independently verified. No representation or warranty, express or implied, is made as to the fairness, accuracy or completeness of the information or opinions contained in this report.

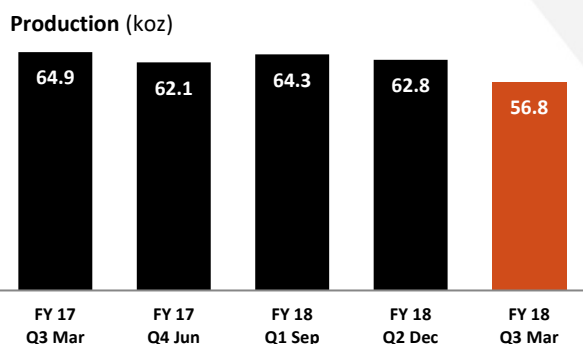
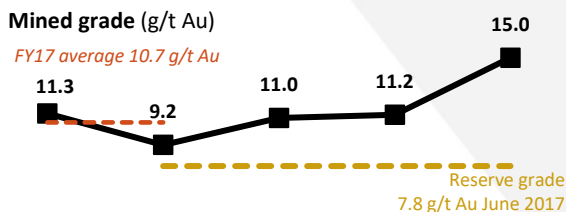
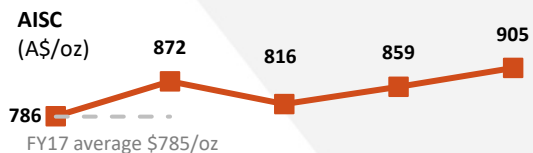
The Company estimates its reserves and resources in accordance with the Australasian Code for Reporting of Identified Mineral Resources and Ore Reserves 2012 Edition ("JORC Code"), which governs such disclosures by companies listed on the Australian Securities Exchange.

1 FY18 guidance previously amended Q3 March FY18 production update (released 6 April 2018) and in Q2 December 2017 quarterly report (released 23 January 2018).

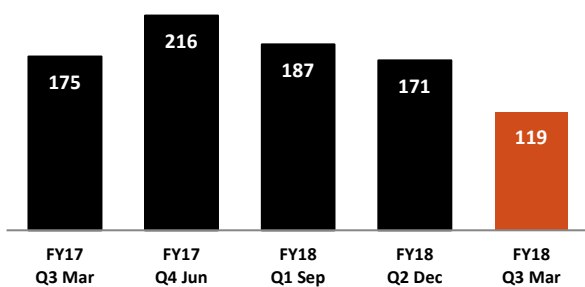
2 Ore Reserve grade at 30 June 2017, refer Ore Reserve and Mineral Resources Statement (released 23 August 2017).

3 Non-IFRS measure, refer Appendix.

Gwalia, Leonora, WA



Gwalia underground ore mined (kt)



Operations

- Gwalia gold production for Q3 March FY18 was 56,773 ounces (Q2 Dec: 62,835 ounces). Mining was primarily across the 1580 and 1620 levels.
- Average mined grade for the quarter was 15.0 g/t Au (Q2 Dec: 11.2 g/t Au), as the mining sequence included stopes from higher grade sections of the South West Branch.
- Mined volume was 119 kt (Q2 Dec: 187 kt). The fall in production had been anticipated, due mainly to changes in the Gwalia mine sequence to prioritise the main South West Branch lode, and to reset the mining chevron, which reduced the number of available working faces. Raiseboring for the extension project also generated additional waste.
- Milled volume was 127 kt (Q2 Dec: 187 kt) with an associated drawdown of ore stockpile inventory, with recovery at 98% (Q2 Dec: 97%).
- AISC was A\$905 per ounce for Q3 March FY18 (Q2 Dec: A\$859 per ounce), with the increase in unit costs primarily due to reduced production, mitigated by the high grade of the ore processed.
- Sustaining mine development and infrastructure capital expenditure in Q3 March FY18 was \$2.5 million.

Outlook

- FY18 guidance is updated as follows:
 - Production of between 250,000 and 260,000 ounces (unchanged)
 - AISC of between A\$840 and A\$880 per ounce (unchanged)
 - Capital expenditure comprising:
 - Sustaining capex: A\$35 to A\$40 million (unchanged) and
 - Growth capex: between A\$45 to A\$50 million (previously A\$50 to A\$55 million).

Production Summary		Q1 Sep	Q2 Dec	Q3 Mar
Gwalia		FY18	FY18	FY18
Underground ore mined	kt	187	171	119
Grade	g/t	10.7	11.2	15.0
Ore milled ¹	kt	192	187	127
Grade ¹	g/t	11.0	10.7	14.2
Recovery	%	97	97	98
Gold production	oz	64,283	62,835	56,773
All-In Sustaining Cost ²		A\$ per ounce		
Mining		374	384	419
Processing		128	128	120
Site services		60	73	74
Stripping and ore inventory adjustments		17	33	22
		579	618	635
By-product credits		(2)	(2)	(2)
Third party refining & transport		2	1	1
Royalties		42	39	45
Total cash operating costs		621	656	679
less operating development		(79)	(84)	(110)
Adjusted cash operating cost		542	572	569
Corporate and administration		45	51	55
Corporate royalty		25	24	27
Rehabilitation		3	3	4
Capitalised mine & op development		176	177	206
Sustaining capital expenditure		25	32	44
All-In Sustaining Cost (AISC)		816	859	905

Gwalia Extension Project Expenditure

Project expenditure to date (all capitalised):

- FY17 \$8 million
- FY18
 - Q1 \$4 million
 - Q2 \$11 million
 - Q3 \$7 million
 - YTD \$22 million

¹ Includes Gwalia mineralised waste

² Non-IFRS measure, refer Appendix

³ Ore Reserves at 30 June 2017 extend down to 2,140 mbs, refer to Ore Reserves and Mineral Resources Statement as at 30 June 2017

Gwalia Extension Project (GEP)

Project Description

- The Gwalia Extension Project was announced on 27 March 2017, has an overall budget of A\$100 million, and is expected to be completed between Q1 September FY20 and Q3 March FY20.

- The Project consists of two main components, a ventilation upgrade and paste aggregate fill (PAF). PAF involves mixing paste from surface with waste crushed underground to fill stope cavities.

Project Update

- Work on the Gwalia Extension Project continued during the quarter. The project remains on schedule and within budget.
- In Q3 March FY18 delays occurred to a variety of PAF related items, comprising delays in the supply of components, and in preparation of the voids on the 1420 and 1460 mbs levels, where the machinery will be located, and in accurately positioning the bottom outlet of the 1,420 mbs drill-hole for the HV electrical cable-drop, due to varying geological conditions and existing reinforcement infrastructure. PAF is now likely to be commissioned in October 2018.
- Raisebore activities are progressing well, with the first raisebore reaming upwards having completed approximately 400 of 1,000 metres, and pilot hole drilling for the second ventilation shaft has commenced. The project plan now anticipates some concurrent raiseboring of ventilation shafts, which should result in the project being completed earlier in the guidance range (between Q1 Sep FY20 and Q3 Mar FY20).

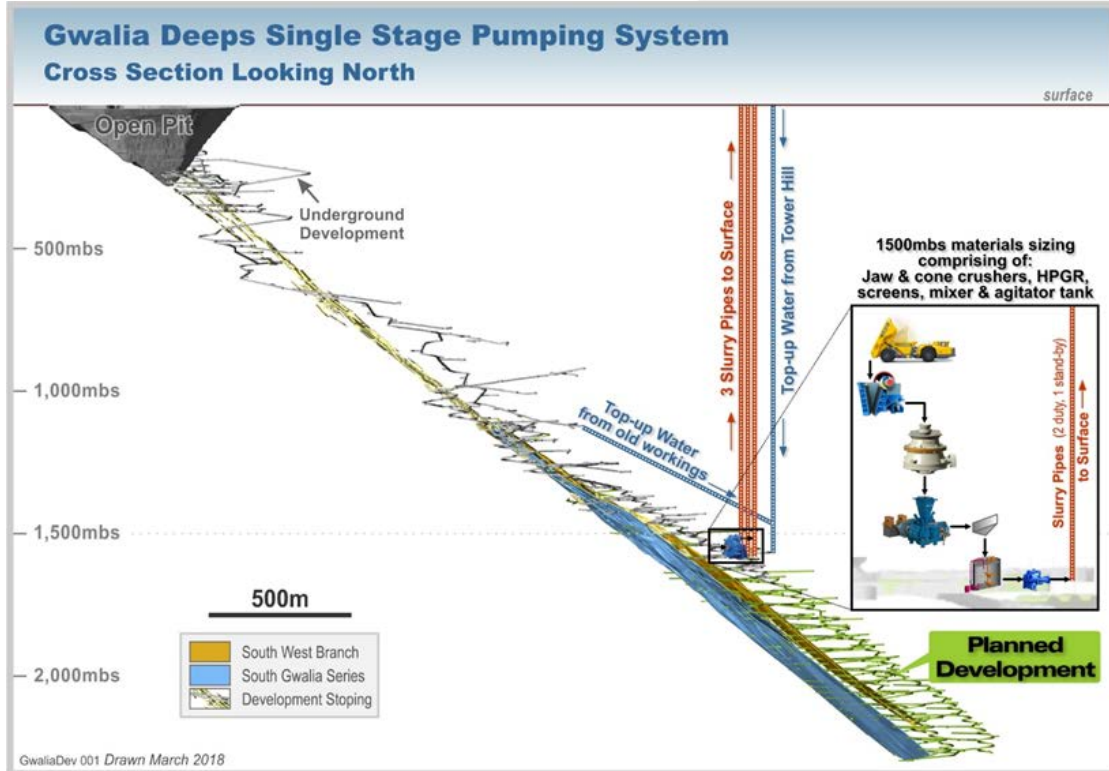
Gwalia Extension Project Summary

Announced	• 27 March 2017
Status	• Under construction
Capex	• A\$100 million
Construction period	• Commenced Q3 Mar FY17 • Anticipated completion between Q1 Sep FY20 and Q3 Mar FY20 • PAF completion now due October 2018
Key components	
Ventilation upgrade	• Ventilation shafts, power & cooling • Supports mining to at least 2,000 mbs in FY 2024 ³ • Approx. 80% of project budget
Paste Aggregate Fill (PAF)	• Underground waste crushing, paste and aggregate fill mixing and pumping • Increase trucking efficiency • Improve stope cycle times • Reduce impact of vent shaft construction on production • Approx. 20% of project budget

Gwalia Mass Extraction (GMX)

- The Gwalia Mass Extraction (GMX) study was announced on 21 February 2018 and consists of a pre-feasibility study (PFS) for a change in mining method and material handling at Gwalia below 1800 mbs (from approximately FY 2021 onwards), which supports a revised Life of Mine Plan to FY 2031 using existing Resources and Reserves¹.
- In the PFS a new mining method and investment in underground grinding, mixing and hydraulic hoisting (slurry pumping) would be used to lift mining rates, maintain margins and potentially increase production as the Gwalia mine deepens.
- A feasibility study (FS) is due to be completed in Q2 December FY19, and progress was made during Q3 March FY18 with the modelling of different configurations of slurry pumping and comminution (milling and grinding) at depth.

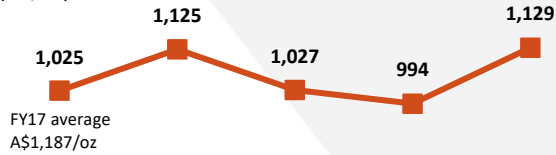
Gwalia Mass Extraction PFS Summary	
Announced	• 21 February 2018
Status	• Prefeasibility Study
Capex	• A\$100 million
PFS model - milestones	<ul style="list-style-type: none"> • Feasibility study due Q2 Dec FY19 • Investment decision December 2018 • Hydraulic hoisting construction FY 2021 • Full implementation FY 2022
Key Components	
Underground crushing of ore and hydraulic hoist	<ul style="list-style-type: none"> • 2 stage crushing and high-pressure grinding rolls • Mixing 50/50 with water and pumping to surface
New mining method – Island pillar	<ul style="list-style-type: none"> • Provides greater seismic stability • Allows longer strike length • Ability to mine thinner lodes productively
Overall	<ul style="list-style-type: none"> • Increase mining rate to potential 1.4 Mpta • Supports mine-life to FY 2031



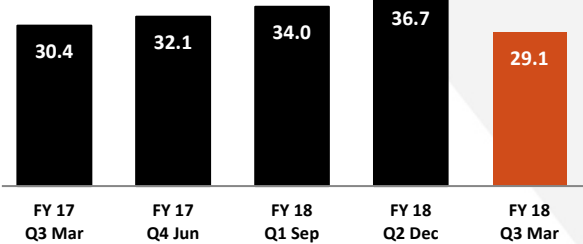
1 Ore Reserve and Mineral Resources Statement at 30 June 2017 (released 23 August 2017).

Simberi, Papua New Guinea

AISC
(A\$/oz)



Production
(koz)



Operations

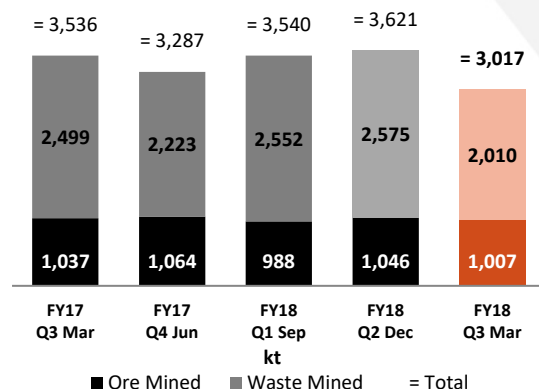
- Simberi gold production for Q3 March FY18 was 29,112 ounces (Q2 Dec: 36,674 ounces).
- The decrease in production was partially due to the illegal work stoppage, which halted production for 7 days, and subsequent impact as the processing plant ramped up. The illegal work stoppage was primarily due to misunderstandings regarding leave provisions and other employment conditions, which have now been clarified.
- Lower grades compared to previous quarters (with most higher grade ore currently sourced from Sorowar), in combination with stoppage-related lower mill throughput, resulted in lower production compared to previous quarters.
- All In Sustaining Cost (AISC) was A\$1,129 per ounce for Q3 March FY18 (Q2 Dec: A\$994 per ounce), which was also impacted by the strike and lower production.
- Drilling beneath Sorowar pit seeking to identify further sulphide ore is ongoing, the results of which will inform the Sulphide Project. Some delays have occurred due to difficult drilling conditions.

Outlook

- FY18 guidance has been upgraded as follows:
 - Production of between 125,000 and 132,000 ounces (announced 6 April 2018, previously 115 to 125 koz)
 - AISC of between A\$1,070 and A\$1,130 per ounce (previously A\$1,130 and A\$1,230 per ounce)
 - Capex of A\$4 to A\$5 million (previously A\$5 to A\$7 million).

Production Summary Simberi		Q1 Sep FY18	Q2 Dec FY18	Q3 Mar FY18
Ore & waste mined	kt	3,540	3,621	3,017
Ore mined	kt	988	1,046	1,007
Grade	g/t	1.21	1.32	1.16
Ore milled	kt	971	936	874
Grade	g/t	1.27	1.42	1.22
Recovery	%	86	86	85
Gold production	oz	33,976	36,674	29,112
All-In Sustaining Cost¹		A\$ per ounce		
Mining		338	327	373
Processing		366	342	362
Site services		218	201	253
		922	870	988
By-product credits		(2)	(4)	(3)
Third party refining & transport		7	7	9
Royalties		37	35	42
Total cash operating costs		964	908	1,036
Corporate and administration		45	51	55
Rehabilitation		13	15	19
Sustaining capital expenditure		5	20	19
All-In Sustaining Cost (AISC)		1,027	994	1,129

Simberi Ore & Waste Mined



1 Non-IFRS measure, refer Appendix

Exploration – Results March 2018 Quarter

Gwalia Exploration Program, Leonora WA

- **Gwalia Deeps Extension:** The Gwalia Deeps drilling program continued with the drilling of parent hole GWDD19 targeting the potential extension of the lode system at a depth of 2,600 mbs and is expected to reach completion during April 2018. This will be the deepest hole yet drilled at Gwalia and is directed to a position over 600m down-plunge from previous drill intercepts.
- **Gwalia Seismic Program:** Interpretation of a **3D seismic program** targeting a 15 km² area surrounding the Gwalia mine has led to the prioritisation of two areas displaying attributes similar to those associated with the Gwalia deposit. These target areas are immediately north and south of the known lode system and located between 600 to 1,900 mbs. Drilling to assess the target areas will commence in April 2018.
- **Horse-Paddock Well, Leonora WA:** Induced Polarisation (IP) and Sub Audio Magnetic (SAM) surveys were successfully completed directed at identifying King of the Hills style mineralisation. Geophysical interpretation has identified a feature which will be drilled in Q4 June FY18. Follow-up downhole SAM type exploration is likely as well as further elements in a program of work.

Pinjin Project, Yilgarn WA

- Exploration continued on the Pinjin project within the Yilgarn Province, WA. The Pinjin Project is located 150 km northeast of Kalgoorlie, comprising a large tenement package of 20 exploration licences (1,434 km²) for 485 blocks (Figure 4.0).
- Final results were received for the 163 hole (PJAC01385 to PJAC1547) 10,658 metre aircore drill program completed in December 2017 (Figures 4.0 to 4.4 and Table 1). The drilling tested the Graham's Find prospect, southeast Yindi station area and part of the Mulgabbie trend (Figure 4.1).
- The drilling at Graham's Find highlighted a 3.2 kilometre long, north-northwest striking zone of anomalous gold (≥ 250 ppb Au) and arsenic (≥ 250 ppm As) in bedrock that passes under Lake Rebecca and is potentially open to the southeast (Figure 4.2).
- The aircore drilling at southeast Yindi station defined a 6 kilometre long, north-northwest striking, semi-continuous zone of anomalous gold (≥ 50 ppb Au), lead, bismuth and tungsten in bedrock localised along a granite – greenstone contact (Figure 4.3). The anomaly is open along strike to the north and south.
- Infill aircore drilling on the Mulgabbie trend defined two north - south striking 0.75 to 1 kilometre long anomalous zones of gold (≥ 250 ppb Au) and arsenic (≥ 250 ppm As) in bedrock, that are both open along strike to the north (Figure 4.4).

- A Reverse Circulation (RC) drilling program comprising 19 holes for 3,760 metres commenced in March 2018, aimed at testing 17 bedrock conductors defined from recent airborne Electromagnetic (AEM) and surface Fixed Loop Electromagnetic (FLEM) surveys, as well as previous 6 g/t Au and 1 g/t Au in bedrock aircore drill results from southeast Yindi station (Figure 4.5).
- To date, nine holes (PJRC0039 to PJRC0047) have been completed for 2,111 metres. Two holes (PJRC0039 and PJRC0040) were drilled at southeast Yindi, intersecting narrow zones (~5 metres) of silica-sericite±pyrite alteration within the granite. Three of the seven holes (PJRC0041 to PJRC0047) testing bedrock conductors intersected sulphide bearing Banded Iron Formation (BIF) and three holes intersected graphitic black shale at target depths. The program will be completed in mid-April, with results reported in Q4 June FY18.
- A 300 hole 20,000 metre aircore infill and extension drilling program is planned at Graham's Find, southeast Yindi, the Mulgabbie trend and two new targets in the western tenements in Q4 June FY18. Subject to water levels, a 320 hole, 19,000 metre lake aircore drilling program is planned to test Graham's Find, the Mulgabbie trend and three geophysical targets commencing late in Q4 June FY18.

Back Creek, NSW (EL 8214 and EL 8530)

- A 20 hole, 3,000 metre aircore drill program has been designed using aeromagnetic data and results from the recently completed surface Gravity and Passive Seismic surveys. Two drill fence lines with holes spaced between 400 metres and 800 metres apart were designed to test two targets in the Eastern part of EL8214 (Figure 5.0). Aircore drilling is planned to commence in late in Q4 June FY18. EL8214 was renewed for four years on 26 February 2018.

Simberi, Tatau & Tabar Islands, Papua New Guinea (ML 136 and EL 609)

- On Simberi Island (Figure 6.0), a detailed pit mapping program, 3D modelling and multi-element geochemical review continued to better define controls on oxide and sulphide ore within ML136.
- A single 750 metre drill hole was designed to test gold mineralisation approximately 200 m below the limits of historical drilling. The hole will provide information on the potential for porphyry copper - gold mineralisation at depth below the pit. The initial drill hole SRCD003 was abandoned due to a combination of ground conditions and drill rig mechanical breakdown. A new hole SDH371 is currently at 323 metres depth and is expected to be completed in Q4 June FY18.
- Exploration continued on EL609 at Tatau and Big Tabar Islands during Q3 March FY18. Work focussed on the execution of

diamond drilling on Tatau Island as part of the Newcrest Option and Farm-in.

**Option and Farm-in with Newcrest,
Tatau & Tabar Islands, Papua New Guinea**

- The St Barbara group (through its wholly owned PNG subsidiary Nord Australex Nominees (PNG) Ltd) entered into an Option and Farm-in Agreement with Newcrest PNG Exploration Limited (a wholly owned subsidiary of Newcrest Mining Limited) in November 2016 for copper - gold porphyry exploration within EL609 and EL2462 on nearby Tatau and Big Tabar Islands.
- A 47 line kilometre creek mapping and 1,190 rock chip sampling program was completed in December 2017 following up potential porphyry copper - gold targets highlighted by the 1,064 hand auger soil sampling program covering 36 km² of central Tatau Island and Tupinda Prospect, Big Tabar Island.
- Results from the surface sampling program highlight the Talik North porphyry prospect as a priority drill target (Figure 6.1). A coincident copper - molybdenum ± gold anomaly in soil and rock chip samples is associated with a circular 2.3 x 1.6 km magnetic low associated with late-stage, moderate to strong phyllic alteration, surrounding a weak central magnetic high interpreted to represent early-stage, partially exposed potassic alteration. An additional 45 rock chip samples were collected at Talik North during the quarter with results pending.
- Two diamond drill holes (TTD085 and TTD086) were completed at Talik North for 1,503 metres during Q3 March FY18. To date, a total of three diamond drill holes have been completed at Talik North (TTD084 to TTD086) for a combined 2,481 metres. Assay results for TTD084 and TTD085 have been returned (Table 2) with significant intersections including (all intercepts downhole):

TTD084:

- 128 m @ 0.29 % Cu and 0.04 g/t Au from 672m, including 6m @ 1.4% Cu and 0.10 g/t Au from 748m, and
- 145.4 m @ 0.18 % Cu and 0.07 g/t Au from 832m (to EoH)

- TTD085 intersected monzonitic intrusive and mafic dykes, with a strongly magnetic breccia unit located in the upper part of the hole. Alteration was variable downhole with early monzodioritic intrusive and magnetic breccia containing potassic alteration and phyllic alteration in late monzonitic intrusives. Visible trace chalcopyrite mineralisation was scattered down hole and closely associated with the late monzodioritic intrusive.
- TTD086 intersected monzonitic intrusive, a polymict breccia in the central part of the hole and the magnetic breccia observed in TTD085 was observed in the bottom of hole. Both breccia types contained chalcopyrite bearing mineralised clasts.

Alteration is consistent between all the Talik North drill holes, with phyllic alteration dominating the top of hole in late monzonitic intrusive, and increased potassic alteration at depth. Visible trace amounts of chalcopyrite were observed in association with late monzodiorite and breccia. Results for TTD086 are expected in Q4 June FY18 .

- 3D (three dimensional) inversion modelling of airborne geophysics over Talik North is planned to assist with further targeting.
- Subject to access, diamond drilling is expected to commence at the Kupo copper - molybdenum - gold porphyry prospect in Q4 June FY18 (Figure 6.0).
- Results from the 107 sample hand auger soil program completed at Tupinda prospect on Big Tabar Island highlighted a ≥100ppb Au anomaly associated with a circular magnetic low (Figure 6.3). Follow up work is not planned.

Expenditure Q3 March FY18 (unaudited)

Expenditure on mineral exploration is shown below:

	Q1 Sep FY18	Q2 Dec FY18	Q3 Mar FY18	
	A\$ million	A\$ million	A\$ million	
Australia	1.0	1.3	0.8	(expensed)
Pacific	0.8	0.8	1.0	(expensed)
Gwalia	1.2	1.4	1.2	(capitalised)
	3.0	3.5	3.0	

Planned Exploration – Q4 June FY18

- The map below shows current and planned target areas for Q4 June FY18.



- Exploration in Q4 June FY18 will focus on:
 - **Gwalia Deeps** 2,000 – 2,200 mbs: Assess target opportunities, and commence drilling of daughter holes, directed at extending the Indicated Mineral Resource further to the south.
 - **Gwalia Deeps** 2,600 mbs: Continuation of surface parent hole (GWDD19) directed at the potential down-plunge extension of the Gwalia deposit to 2,600 mbs.
 - **3D Seismic Targets:** Commence drilling program on two priority targets.
 - **Greater Gwalia:** Conduct extensions of the seismic coverage of the Greater Gwalia area to the north and south.
 - **Horse-paddock Well:** Evaluate IP and SAM results with the aim to identify targets for drilling.
 - Completion and assessment of results from the 19 hole 3,760 metre RC drilling program in the **eastern Pinjin** tenements testing 17 bedrock conductors and 2 bedrock gold anomalies.
 - Completion of a 300 hole, 20,000 metre aircore infill and extension drilling program planned at Graham's Find, southeast Yindi, the Mulgabbie trend and two new geochemical targets in the western tenements.
 - Subject to water levels, commence a 320 hole, 19,000 metre **lake aircore** drilling program planned to test Graham's Find, the Mulgabbie trend and three geophysical targets.
 - Subject to drill rig availability, commence a 20 hole Aircore drilling program at **Back Creek**.
 - As part of the Newcrest option period work program, continue drilling copper-gold porphyry targets on **Tatau and Big Tabar Islands**. Including commence diamond drilling of the Kupo copper – molybdenum ± gold porphyry target on Tatau Island.
 - Interpret the results of the three diamond drill holes TTD084 to TTD086 completed at **Talik North**.
 - Complete diamond drill hole SDH371 testing the down plunge extent of gold mineralisation at **Pigiput** and better understand the potential for porphyry gold-copper mineralisation at depth.
 - Subject to access, continuing the soil, rock chip sampling, reconnaissance mapping and trenching over gold and copper-gold targets on **Tatau and Big Tabar Islands**.

Exploration Investments

- One component of the Company's growth strategy is targeted investments in early to advanced stage exploration through earn-in arrangements, joint ventures or direct equity investments.
- During Q3 March FY18, the Company invested \$4.4 million in ABM Resources NL (ASX:ABU, www.abmresources.com.au) for 10% of the company's issued capital.
- In April 2018, St Barbara invested \$4.0 million in Duketon Mining (ASX: DKM, duketonmining.com.au) for 12% of the company's issued capital.
- At the date of this report, St Barbara holds the following investments in Australian explorers ¹ :

ABM Resources NL (ASX:ABU)	10%
Catalyst Metals Limited (ASX:CYL)	16%
Duketon Mining Limited (ASX:DKM)	12%
Peel Mining Limited (ASX:PEX)	16%

Health & Safety

- The Total Recordable Injury Frequency Rate (TRIFR) ² increased from 2.4 at the end of Q2 December FY18 to 2.6 at the end of Q3 March FY18. This was as a result of a single low-severity recordable injury.
- There is not a publicly available industry comparison rate for TRIFR. On a like-for-like basis, however, the Company recorded a Lost Time Injury Frequency Rate (LTIFR) of 0.7 at the end of Q3 March FY18, against the most recent available Western Australian gold mining industry average of 2.1³.

Finance (unaudited)

- 91,773 ounces of gold were sold in Q3 March FY18, at an average realised gold price of A\$1,710 per ounce (Q2 Dec: 95,392 ounces at A\$1,686 per ounce). There was 4,371 ounces of gold inventory on hand at 31 March 2018 (31 December 2017: 6,822 ounces).
- Total cash at bank at 31 March 2018 was A\$262 million⁴ (31 December 2017: A\$216 million) after an income tax payment of \$2 million⁵, \$16 million paid for the interim dividend and an investment in ABM Resources of \$4.4 million. The \$4 million investment in Duketon Mining occurred in April.

1 Shareholdings as notified by St Barbara in substantial holder notices

2 Calculated as a rolling 12 month average per million hours worked

3 WA Dept. Mines, Industry, Regulation and Safety, www.dmp.wa.gov.au/Documents/Safety/MSH_Stats_Reports_SafetyPerfWA_2016-17.pdf

4 Cash balance includes A\$1.2 million restricted cash (Dec 2017: A\$1.2 million).

5 Represents a pay-as-you-go (PAYG) monthly tax instalment that commenced in March 2018

- The Company generated an operational cash contribution¹ in Q3 March FY18 of A\$79 million (Q2 Dec: A\$79 million). Cash movements for Q3 March FY18 are summarised in the following table:

Cash movements & balance A\$M (unaudited)	Q1 Sep FY18	Q2 Dec FY18	Q3 Mar FY18
Leonora - operating cash flow ²	62	56	56
Simberi - operating cash flow ²	24	23	23
Operational cash contribution	86	79	79
Leonora - growth capital	(4)	(11)	(7)
Rehabilitation, land management & project costs	-	(1)	-
Corporate costs	(4)	(6)	(5)
Corporate royalties	(2)	(2)	(2)
Exploration ³	(3)	(4)	(3)
Investments ⁴	(1)	(12)	(4)
Income tax payments	-	(31)	(2)
Working capital movement	(10)	4	4
Cash flows before finance costs	62	16	60
Net interest income	1	1	2
Dividends paid	(25)	-	(16)
Net movement for period	38	17	46
Cash balance at start of quarter	161	199	216
Cash balance at end of quarter	199	216	262
Restricted cash inc. in closing balance	1	1	1

- Hedging in place at the date of this report comprises:

FY18: 13,500 ounces of forward gold contracts to be delivered in monthly instalments between April and June 2018 at A\$1,725 per ounce (remainder of hedge announced 12 April 2017), and

13,500 ounces of forward gold contracts to be delivered in monthly instalments between April and June 2018 at A\$1,730 per ounce (remainder of hedge announced 1 June 2017).

FY19: 100,000 ounces of forward gold contracts to be delivered in monthly instalments between July 2018 and June 2019 at A\$1,750 per ounce (FY19 component of hedges announced 7 and 19 February 2018 and 7 March 2018).

FY20: 50,000 ounces of forward gold contracts to be delivered in monthly instalments between July and December 2019 at A\$1,750 per ounce (FY20 component of hedges announced 7 and 19 February 2018 and 7 March 2018).

1 Non-IFRS measure, see cash movements table this page. Corresponds to Operational Cash Flow less sustaining capital, but excludes growth capital of A\$4 million.

2 Net of sustaining capex

3 Includes Gwalia deep drilling

Corporate

- The FY18 interim dividend of \$0.04 per share fully franked announced on 21 February 2018 was paid on 28 March 2018.
- Dividends paid in cash totalled \$16 million, plus 1.1 million new shares issued under the corresponding Dividend Reinvestment Plan (DRP). 1,063 shareholders (11% of all shareholders), holding 112 million shares (22% of issued capital), participated in the DRP, which conserved \$4.5 million in cash.

Share Capital

Issued shares

Opening balance 31 Dec 2017	515,427,192
Issued ⁵	1,114,581
Closing balance 31 Mar 2018	516,541,773

Unlisted employee rights

Opening balance 31 Dec 2017	6,296,723
Issued	nil
Exercised as shares	nil
Lapsed	nil
Closing balance 31 Mar 2018	6,296,723

Comprises rights expiring:

30 June 2018 ⁶	3,974,617
30 June 2019 ⁷	1,076,716
30 June 2020 ⁸	1,245,390

Closing balance 31 Mar 2018 6,296,723

Scheduled Future Reporting

Date	Report
25 July	Q4 June FY18 Quarterly Report
22 August	Annual Financial Report Resources and Reserves Statements

Dates are tentative and subject to change.

4 Refer 'Explorations Investments' earlier in this report

5 ASX Appendix 3B 28 Mar 2018 interim dividend DRP shares

6 If these rights do not vest at 2018, they may be retested at 2019 and 2020

7 If these rights do not vest at 2019, they may be retested at 2020 and 2021

8 If these rights do not vest at 2020, they may be retested at 2021 and 2022

Corporate Directory

St Barbara Limited ABN 36 009 165 066

Board of Directors

Tim Netscher Non-Executive Chairman
Bob Vassie Managing Director & CEO
Kerry Gleeson Non-Executive Director
David Moroney Non-Executive Director

Executives

Bob Vassie Managing Director & CEO
Garth Campbell-Cowan Chief Financial Officer
Rowan Cole Company Secretary

Registered Office

Level 10, 432 St Kilda Road
Melbourne Victoria 3004 Australia
Telephone +61 3 8660 1900
Facsimile +61 3 8660 1999
Email info@stbarbara.com.au
Website 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

Financial figures are in Australian dollars (unless otherwise noted).

Financial year commences 1 July and ends 30 June.

Shareholder Enquiries

Computershare Investor Services Pty Ltd

GPO Box 2975
Melbourne Victoria 3001 Australia
Telephone (within Australia) 1300 653 935
Telephone (international) +61 3 9415 4356
Facsimile +61 3 9473 2500
www-au.computershare.com/investor

American Depositary Receipt enquires:

BNY Mellon Depositary Receipts
www.bnymellon.com/shareowner

Investor Relations

Rowan Cole, Company Secretary +61 3 8660 1900

Substantial Shareholders

	% of Holdings ¹
Van Eck Associates Corporation	11.2%
M&G Investment Management Ltd	5.2%
Vinva Investment Management	5.2%

¹ As notified by the substantial shareholders to 18 April 2018

Appendix

Non-IFRS Measures

- The Company supplements its financial information reporting determined under International Financial Reporting Standards (IFRS) with certain non-IFRS financial measures, including cash operating costs and All-In Sustaining Cost. We believe that these measures provide additional meaningful information to assist management, investors and analysts in understanding the financial results and assessing our prospects for future performance.
- Cash Operating Costs are calculated according to common mining industry practice using The Gold Institute (USA) Production Cost Standard (1999 revision).
- All-In Sustaining Cost (AISC) 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).
 - AISC is calculated on gold production in the quarter.
 - For underground mines, amortisation of operating development is adjusted from "Total Cash Operating Costs" in order to avoid duplication with cash expended on operating development in the period contained within the "Mine & Operating Development" line item.
 - Rehabilitation is calculated as the amortisation of the rehabilitation provision on a straight-line basis over the estimated life of mine.

Competent Persons Statement

Exploration Results

- The information in this report that relates to Exploration Results for Simberi, Pinjin and Back Creek 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.
- The information in this report that relates to Exploration Results for Gwalia and the Leonora region is based on information compiled by Mr Robert Love, who is a Fellow of The Australasian Institute of Mining and Metallurgy. Mr Love 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'. Mr Love consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Mineral Resource and Ore Reserve Estimates

- The information in this report that relates to Mineral Resources or Ore Reserves is extracted from the report titled 'Ore Reserves and Mineral Resources Statements 30 June 2017' released to the Australian Securities Exchange (ASX) on 23 August 2017 and available to view at www.stbarbara.com.au and for which Competent Persons' consents were obtained. Each Competent Person's consent remain in place for subsequent releases by the Company of the same information in the same form and context, until the consent is withdrawn or replaced by a subsequent report and accompanying consent.
- The Company confirms that it is not aware of any new information or data that materially affects the information included in the original ASX announcement released on 23 August 2017 and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the original ASX announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original ASX announcement.
- Full details are contained in the ASX release dated 23 August 2017 'Ore Reserves and Mineral Resources Statements 30 June 2017' available at www.stbarbara.com.au.