Presentation to analysts and investors at Leonora Operations

Attached is a presentation to analysts and investors attending a site visit this week at Leonora Operations, Western Australia.
Gwalia site visit presentation
Disclaimer

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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.

Financial figures are in Australian dollars unless otherwise noted.
Financial year is 1 July to 30 June.
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

This presentation published 13 November 2019
Title slide picture: Aerial view of Leonora Operations
Overview of St Barbara
- Operations
- Safety
Gwalia Mine, Leonora, WA
- History
- Production
- Innovation
- Growth
Exploration
Appendices

Melissa Walker, Process Technician at the paste plant, Gwalia.
Corporate Overview


ASX 200 (ASX: SBM; ADR: STBMY), est. 1969

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Gold (Au)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Cap¹</td>
<td>A$1.8 B @ A$2.57/sh</td>
</tr>
<tr>
<td>Shares¹</td>
<td>699 M</td>
</tr>
<tr>
<td>Liquidity²</td>
<td>8.5 M/day (1.2%)</td>
</tr>
<tr>
<td>FY19 EPS³</td>
<td>A$0.27</td>
</tr>
<tr>
<td>FY19 Dividend</td>
<td>A$0.08</td>
</tr>
<tr>
<td>Cash and cash deposits⁴</td>
<td>A$76 M</td>
</tr>
<tr>
<td>Debt⁸</td>
<td>A$112 M (C$100 M)</td>
</tr>
<tr>
<td>Ore Reserves (JORC)⁵</td>
<td>5.9 Moz</td>
</tr>
<tr>
<td>Mineral Resources⁵</td>
<td>12.0 Moz</td>
</tr>
</tbody>
</table>

### FY19A

<table>
<thead>
<tr>
<th>Consolidated</th>
<th>362 koz @ AISC⁶ A$1,080/oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gwalia</td>
<td>220 koz @ AISC A$1,027/oz</td>
</tr>
<tr>
<td>Simberi</td>
<td>142 koz @ AISC $1,162/oz</td>
</tr>
<tr>
<td>Atlantic Gold⁸</td>
<td>93 koz @ AISC A$862/oz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FY20F⁷</th>
<th>380 to 420 koz @ AISC A$1,240 to A$1,330/oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gwalia</td>
<td>175 to 190 koz @ AISC A$1,390 to A$1,450/oz</td>
</tr>
<tr>
<td>Simberi</td>
<td>110 to 125 koz @ AISC A$1,285 to A$1,450/oz</td>
</tr>
<tr>
<td>Atlantic Gold⁸</td>
<td>95 to 105 koz @ AISC A$900 to A$955/oz</td>
</tr>
</tbody>
</table>

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Focus on Safety

Total Recordable Injury Frequency Rate\(^1\)

<table>
<thead>
<tr>
<th>Year</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20 Q1 Sep</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate</td>
<td>5.0</td>
<td>2.1</td>
<td>1.2</td>
<td>2.1</td>
<td>5.0</td>
<td>5.0</td>
</tr>
</tbody>
</table>

St Barbara LTIFR in comparison with Western Australian Mining benchmarks\(^2\)

- 1.6 St Barbara Q1 FY20
- 1.9 WA Gold
- 1.9 WA Metal

- The Total Recordable Injury Frequency Rate (TRIFR, 12 month moving average) at 5.0 at the end of Q1 September FY20
- Deterioration is being vigorously addressed with focus on HS culture and maturity, personal accountability and safety mindset.
- Corresponding LTIFR remains below WA industry average

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1. Total Recordable Injury Frequency Rate (12 month avg.), total recordable injuries per million hours worked.
2. LTIFR = Lost Time Injury Frequency Rate (12 month avg.), the number of lost time injuries per million hours worked.
From surface outcrop (first mined 1896) to current workings is approx. 3.5 km ‘straight line’ along shear

Herbert Hoover was the initial Gwalia mine manager (1897-1898), later a US President (1929-1933), noted angle of deposit – took mining underground via underlay shaft (forerunner of decline)

One of few world deposits mined for over 100 years

In October 2018 produced its 2 millionth ounce under St Barbara ownership
Gwalia production profile

FY19 performance

- Production of 220 koz
- AISC\(^2\) of A$1,027/oz

FY20 guidance

- Production of 175 to 190 koz
- AISC of A$1,390 to A$1,450/oz

2. AISC is a Non-IFRS measure, refer Appendix
3. FY20F AISC is midpoint of revised guidance released 18 October 2019 in ‘FY20 production and cost guidance update’. 
Quarterly Gwalia production profile

Q1 FY20 Production

- 38,153 oz (Q4: 49,966 oz)
- AISC\(^1\) A$1,559/oz (Q4: A$1,228/oz)
- Mined grade of 7.4 g/t Au (Q4: 10.0 g/t Au)
- Mined lower grade stopes in Q1 as part of sequence, some dilution (overbreak) in final stope on edge of level
- Total material moved 267 kt, best in five quarters, improving mining rate in constrained environment
- Considering ventilation strategy change in Q2 and Q3, preparing for doubling of ventilation when GEP completed

\(^1\) Non IFRS measure, refer corresponding slide in Appendix

\(^2\) Reserve Grade per ‘Ore Reserves and Mineral Resources Statements 30 June 2019’ released 21 August 2019
Gwalia animation

Animation of Gwalia underground mine available at https://youtu.be/D3uo4FKCi2I
Triple Lift Stoping in Wide SWB Zones

Mining method

• Long hole open stoping with fill
• North & south access on two levels gives 4 mining areas
• Greater percentage of free bogging increases productivity of each stope
• Sill drives fully in ore – reduces development dilution
Double Lift Stoping in South Gwalia Series and Narrower SWB Zones

Mining method
- Cable bolts installed from central ore drive, reducing dilution
- Production drilling parallel to hangingwall to reduce blast induced dilution
Mining method

- Lower hydraulic radius reduces dilution
- Production drilling parallel to hangingwall to reduce blast induced dilution
Island Pillar Method Opportunity

**Mining method**

- Island pillar supports hangingwall, reducing dilution
- Allows strike length to be increased
- Fixed part of stoping cycle effectively spread over two stopes
- Potential increase in stoping productivity
**Objective:** Maximise production, constrained by:

1) Waiting for adjacent/above stope’s paste fill to dry
2) Geotech considerations – not too many open stopes too close together

= ‘Centre out’ method

‘Centre out’ – extract centre stope of lode first, then move out to edge of lode

Stopes on outside of lode – generally lower grade
Stopes in centre – generally higher grade

= Variable gold production based on stopes in production that quarter
Stope Cycles targeting higher production

**Stope Cycle Time – 6 months per stope**

- ‘Bogging’ (extracting ore from the stope) represents just under 50% of stope cycle time
- Filling and curing around 30% of stope cycle time
  - PAF circuit optimisation to aid in reduction of filling time
- Adjacent stopes (beside, above, below) cannot be developed until curing complete
- Dependent on development progress, mining commences on a new level (approx. 40 metres depth) approx. each 12 months
- Commence with ‘centre slot’ on new level

<table>
<thead>
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<th>Month</th>
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<tr>
<td></td>
<td>0</td>
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<tr>
<td>Adjacent stope curing</td>
<td></td>
</tr>
<tr>
<td>Development</td>
<td></td>
</tr>
<tr>
<td>Raiseboring</td>
<td></td>
</tr>
<tr>
<td>Production Drilling</td>
<td></td>
</tr>
<tr>
<td>Blasting &amp; Bogging</td>
<td></td>
</tr>
<tr>
<td>Paste filling &amp; Curing</td>
<td></td>
</tr>
</tbody>
</table>

'Production'
• Gwalia Extension Project (GEP) consists of two main components: a ventilation upgrade and paste aggregate fill (PAF)\(^1\)
• Budget of A$112 million with planned completion in Q3 March FY20\(^2\)
• A$107 million spent on project to date
• PAF crushing circuit on 1420 level and mixing and pumping on 1460 level is commissioned and currently being integrated into the production cycle
• Reaming has commenced on final 520 metre underground raisebore
• Upon completion, GEP will approximately double ventilation to underground workings

1. PAF involves mixing paste from surface with waste crushed underground to fill stope cavities

Above: wet commissioning of PAF crushing circuit on 1420 level. Top L to R: Stef Loader Non-Executive Director, Bob Vassie (MD & CEO), Jarryd Dastlik (UG Fixed Plant Maint. Fitter) and Mark Eaton (PAF Maintainer)
• Parent holes GWDD23C and GWDD25 targeted the orebody at 2,200 – 2,400 mbs
• Daughter holes GWDD24 and GWDD24A targeted northern extensions to the lode system at 1,100 mbs and intersected weakly mineralised intervals interpreted as Main Lode

For full explanation and results refer to ASX release 21 October 2019 ‘Q1 September FY20 Quarterly Report’
Gwalia Deep Drilling

- Awaiting assay results for GWDD025
Gwalia Deeps Q1 FY20 Drilling Program Long Section

GWDD24
2.0m @ 1.7g/t (MNL)

GWDD24A
Mine Schist

GWDD25
Assays Pending

Target 2,300mbs

GWDD23C
7.3m @ 7.5g/t (MNL)
24.2m @ 6.5g/t (SWB)

Target 2,600mbs

For full explanation and results refer to ASX release 21 October 2019 'Q1 September FY20 Quarterly Report'
Greater Gwalia

- Emphasis on short term exploitable prospects

- Phase 2 drilling, comprising of eight new diamond drill holes with RC pre-collars, and four existing hole extensions via diamond tails

- Significant results from this program include (all intercepts down-hole):
  - 1.4 m @ 1.8 g/t Au from 324 m (JARC004)
  - 1.1 m @ 1.2 g/t Au from 305 m (JARD022)
  - 2.0 m @ 1.5 g/t Au from 59 m (JARD023)
  - 2.3 m @ 1.1 g/t Au from 64 m (JARD023)
Gwalia
A rich history with a bright future

Exploration | Horse Paddock Well / Trevor Bore

• Horse Paddock Well (Leonora, WA): A third phase of drilling comprising eight RC drill holes and two extensional diamond tails. Results include (all downhole):

  - 1.0 m @ 5.3 g/t Au from 114 m (HWRC0015)
  - 1.0 m @ 2.6 g/t Au from 23 m (HWRC0018)
  - 2.0 m @ 1.8 g/t Au from 27 m (HWRC0018)

• Trevor Bore (Leonora, WA): 11 RC holes to 200 mbs, over a strike length of 1.4 km, testing SAM anomalies. Results include (all downhole):

  - 9.0 m @ 1.6 g/t Au from 134 m (TBRD004)
  - 2.0 m @ 2.3 g/t Au from 90 m (TBRD006)
  - 10.0 m @ 2.4 g/t Au from 125 m (TBRD006)
    - inc. 4.0 m @ 5.1 g/t Au from 125 m
Exploration | Gwalia Regional Targets

For full explanation and results refer to ASX release 24 July 2019 'Quarterly Report Q4 June FY19'
Gwalia Geological Interpretation

Shallowing Gwalia Fold Model
Looking North

West

Mine Sequence Shear Zone

Conway

Gwalia

Shallowing Fold Trend

16 Series

23 Series

2,000mbs

Lineations Hangingwall

Lineations Footwall

Potential Drilling Targets
Shear Zone Hangingwall
Gwalia Lode Horizon
Shear Zone Footwall
Granodiorite

Gwalia-115 Drawn Jan 2019

Note: Stylised conceptual interpretation of the Gwalia geology and mineralisation
### Consolidated Production, Costs, Guidance Summary

#### Production Summary

<table>
<thead>
<tr>
<th></th>
<th>Q3 Mar FY19</th>
<th>Q4 Jun FY19</th>
<th>Year FY 19</th>
<th>Q1 Sep FY20 AG full quarter</th>
<th>Q1 Sep FY20 AG SBM attributable</th>
<th>Guidance FY20</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Qtr to 31 Mar 2019</td>
<td>Qtr to 30 Jun 2019</td>
<td>Year to 30 June 2019</td>
<td>Qtr to 30 Sep 2019</td>
<td>Qtr to 30 Sep 2019</td>
<td>Year to 30 June 2020</td>
</tr>
<tr>
<td><strong>St Barbara’s financial year is 1 July to 30 June</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Production</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gwalia oz</td>
<td>54,261</td>
<td>49,966</td>
<td>220,169</td>
<td>38,153</td>
<td>38,153</td>
<td>175-190 koz (prev. 200 to 210 koz)</td>
</tr>
<tr>
<td>Simberi oz</td>
<td>34,097</td>
<td>36,231</td>
<td>142,177</td>
<td>27,061</td>
<td>27,061</td>
<td>110-125 koz (no change)</td>
</tr>
<tr>
<td>Atlantic oz</td>
<td>19,612</td>
<td>22,948</td>
<td>92,639</td>
<td>22,355</td>
<td>17,993</td>
<td>95-105 koz (new)</td>
</tr>
<tr>
<td><strong>Consolidated oz</strong></td>
<td>107,970</td>
<td>109,145</td>
<td>454,985</td>
<td>87,569</td>
<td>83,206</td>
<td>380-420 koz (prev. 310-335 koz ex. Atlantic)</td>
</tr>
</tbody>
</table>

#### Mined Grade

<table>
<thead>
<tr>
<th></th>
<th>Gwalia g/t</th>
<th>Simberi g/t</th>
<th>Atlantic g/t</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gwalia</strong></td>
<td>11.7</td>
<td>1.46</td>
<td>0.95</td>
</tr>
<tr>
<td><strong>Simberi</strong></td>
<td>10.0</td>
<td>1.48</td>
<td>0.91</td>
</tr>
<tr>
<td><strong>Atlantic</strong></td>
<td>11.1</td>
<td>1.43</td>
<td>0.98</td>
</tr>
</tbody>
</table>

#### Total Cash Operating Costs 2

<table>
<thead>
<tr>
<th></th>
<th>Gwalia A$/oz</th>
<th>Simberi A$/oz</th>
<th>Atlantic A$/oz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gwalia</strong></td>
<td>713</td>
<td>1,066</td>
<td>766</td>
</tr>
<tr>
<td><strong>Simberi</strong></td>
<td>821</td>
<td>1,021</td>
<td>744</td>
</tr>
<tr>
<td><strong>Atlantic</strong></td>
<td>746</td>
<td>1,016</td>
<td>662</td>
</tr>
</tbody>
</table>

#### All-In Sustaining Cost 2

<table>
<thead>
<tr>
<th></th>
<th>Gwalia A$/oz</th>
<th>Simberi A$/oz</th>
<th>Atlantic A$/oz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gwalia</strong></td>
<td>1,016</td>
<td>1,229</td>
<td>957</td>
</tr>
<tr>
<td><strong>Simberi</strong></td>
<td>1,230</td>
<td>1,203</td>
<td>1,010</td>
</tr>
<tr>
<td><strong>Atlantic</strong></td>
<td>1,027</td>
<td>1,162</td>
<td>862</td>
</tr>
</tbody>
</table>

#### Guidance Grade 1

<table>
<thead>
<tr>
<th></th>
<th>Gwalia</th>
<th>Simberi</th>
<th>Atlantic</th>
<th>Consolidated</th>
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<tbody>
<tr>
<td><strong>Reserve grade 1</strong></td>
<td>6.4</td>
<td>1.3</td>
<td>1.1</td>
<td></td>
</tr>
</tbody>
</table>

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2. Non-IFRS measure, refer Appendix.
3. US$900 to US$1,015 per ounce @ AUD 0.70
4. C$810 to C$860 per ounce @ AUD 0.90

For personal use only
St Barbara
- Responsible for
  - Planning
  - Processing
  - Procurement
  - Commercial
- Approx. 170 employees, mostly FIFO

Leonora facilities
- 1.4 Mtpa plant
- 300 bed camp

Other contractors
- ~ 80 contractors involved as required

Byrnecut – contract mining
- Byrnecut is part of Gwalia’s success
- Started at Gwalia in Sep 2012
- Alliance agreement from Sep 2013
- Approx. 230 employees

Underground fleet
- 7 Drills
  - 4 x Jumbo (development)
  - 3 x Long hole (production)
- 5 Loaders
  - 3 x Production (remote capable)
  - 2 x Development
- 11 Trucks
  - 7 x Atlas Copco MT65 (65t)
  - 1 x Atlas Copco MT6020 (60t original)
  - 3 x Atlas Copco MT6020 (65t tub upgrade)
Supporting the Leonora community

St Barbara is focused on working within the Leonora community.

Sponsorships

• Golden Gift (athletics carnival)
• Kambalda/Leonora Football Club
• Goldfields Girl (personal development program for young indigenous women)
• St Barbara Cup (horse race)
• Shooting Stars (netball program for indigenous girls)
• Clontarf (football program for indigenous boys)
• Teach Learn Grow (remote ‘bridge the gap’ learning charity)
• Netball WA & Gold Industry Group partnership
• Indigihack technology and indigenous language event at Leonora District High School
• School HipHop video program
• Exercise, school, addiction programs
Ore Reserves and Mineral Resources Statements as at 30 June 2019 (released 21 August 2019), Ore Reserves extend down to 2140 mbs, Mineral Resources extend down to 2200 mbs, work continues to seek further extensions.
Gwalia Resources & Reserves

**Gwalia Reserves**

<table>
<thead>
<tr>
<th></th>
<th>June 2018</th>
<th>Mining depletion</th>
<th>Cut-off grade</th>
<th>Lode Strike Extensions</th>
<th>June 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>koz</td>
<td>1,899</td>
<td>-225</td>
<td>+84</td>
<td>+315</td>
<td>2,073</td>
</tr>
</tbody>
</table>

**Gwalia Resources**

<table>
<thead>
<tr>
<th></th>
<th>June 2018</th>
<th>Mining depletion</th>
<th>Geology model update</th>
<th>June 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>koz</td>
<td>4,825</td>
<td>-233</td>
<td>+183</td>
<td>4,775</td>
</tr>
</tbody>
</table>

Upstream raise construction
• Type of TSF: Paddock

Metrics:
• First approved: 1992
• Elevation: ~376m
• Current wall height: 30 m
• Projected final wall height: 32 m
• Tailings deposition rate: 750-850 ktpa
• Deposited density: 1.4-1.5 t/m³
• Total capacity: 30 Mt
• Perimeter: 3,000 m
• Impoundment area: ~70 ha
• Current impoundment volume: ~17.1 x 10⁶ m³
• Current mass of solids stored: ~25.6 x 10⁶ t
• Final raise expected by 2023; new TSF will be ready for utilisation at that point.
• Tailings are mined for concrete aggregate material for the paste fill plant.
• During 2018/19 a review of emergency plan and dam rating was completed based on ANCOLD and regulatory standards.
• In 2019 stability drill testing was completed and an additional eight piezometers were installed to provide increased certainty of TSF stability.
- Engineer of Record & Independent Tailings Engineer
  - Annual safety inspections
- Insurance Assessment
  - Annual visit
- WA Government, Department of Water and Environmental Regulation
  - Periodic inspections
- WA Government, Department of Mines, Industry Regulation and Safety
  - Guide to Departmental requirements for the management and closure of tailings storage facilities (2015)
  - Tailings Dam Audit Guide (2013)
  - Safe Design and Operating Standards for Tailings Storage (1990)
- A regulatory mine closure plan is in place which includes rehabilitation of the TSF.
## Ore Reserves Summary at 30 June 2019 + Atlantic Gold

<table>
<thead>
<tr>
<th>Project</th>
<th>Proved</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Tonnes ('000)</td>
<td>Gold (g/t)</td>
<td>Ounces ('000)</td>
<td>Tonnes ('000)</td>
<td>Gold (g/t)</td>
<td>Ounces ('000)</td>
<td>Tonnes ('000)</td>
<td>Gold (g/t)</td>
<td>Ounces ('000)</td>
</tr>
<tr>
<td>Gwalia, (WA)</td>
<td>2,220</td>
<td>8.0</td>
<td>568</td>
<td>7,915</td>
<td>5.9</td>
<td>1,506</td>
<td>10,135</td>
<td>6.4</td>
<td>2,073</td>
</tr>
<tr>
<td>Tower Hill, (WA)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2,572</td>
<td>3.7</td>
<td>306</td>
<td>2,572</td>
<td>3.7</td>
<td>306</td>
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<tr>
<td>Simberi Oxide, (PNG)</td>
<td>1,547</td>
<td>1.5</td>
<td>75</td>
<td>5,346</td>
<td>1.2</td>
<td>213</td>
<td>6,893</td>
<td>1.3</td>
<td>288</td>
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<td>Simberi Sulphide, (PNG)</td>
<td>1,615</td>
<td>2.0</td>
<td>105</td>
<td>16,520</td>
<td>2.4</td>
<td>1,270</td>
<td>18,135</td>
<td>2.4</td>
<td>1,375</td>
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<td>Simberi Stockpiles, (PNG)</td>
<td>1,058</td>
<td>0.7</td>
<td>24</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,058</td>
<td>0.7</td>
<td>24</td>
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<tr>
<td>Total (30 June 2019)</td>
<td>6,440</td>
<td>3.7</td>
<td>772</td>
<td>32,353</td>
<td>1.1</td>
<td>3,295</td>
<td>38,793</td>
<td>3.3</td>
<td>4,066</td>
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<tr>
<td>Atlantic Gold, (NS)</td>
<td>25,400</td>
<td>1.1</td>
<td>902</td>
<td>26,550</td>
<td>1.1</td>
<td>973</td>
<td>51,950</td>
<td>1.1</td>
<td>1,875</td>
</tr>
<tr>
<td>Total All Projects</td>
<td>31,840</td>
<td>1.6</td>
<td>1,674</td>
<td>58,903</td>
<td>2.3</td>
<td>4,268</td>
<td>90,743</td>
<td>2.0</td>
<td>5,941</td>
</tr>
</tbody>
</table>

**Notes**

1. Ore Reserves are based on a gold price of: Gwalia (AU$1,600/oz), Tower Hill (AU$1,250/oz), Simberi (US$1,250/oz)
2. Cut-off Grades Gwalia (4.7g/t Au), Tower Hill (2.8g/t Au), Simberi Oxide (0.5g/t Au)
3. Mineral Resources are reported inclusive of Ore Reserves
4. Data is rounded to thousands of tonnes and thousands of ounces. Discrepancies in totals may occur due to rounding
6. The information for the Atlantic Gold Mineral Resources or Ore Reserves is extracted from the report entitled ‘Moose River Consolidated Mine, Nova Scotia, Canada, NI 43-101 Technical Report’ created on 25 March 2019 and is available to view at stbarbara.com.au. The company confirms that it is not aware of any new information or data that materially affects the estimates of Mineral Resources or Ore Reserves, that all material technical assumptions and technical parameters underpinning the estimates in the market 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 market announcement.

<table>
<thead>
<tr>
<th>Project</th>
<th>Measured</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tonnes</td>
<td>Gold (g/t)</td>
<td>Ounces</td>
<td>Tonnes</td>
<td>Gold (g/t)</td>
<td>Ounces</td>
<td>Tonnes</td>
<td>Gold (g/t)</td>
<td>Ounces</td>
<td>Tonnes</td>
<td>Gold (g/t)</td>
<td>Ounces</td>
<td>Tonnes</td>
</tr>
<tr>
<td>Gwalia, (WA)</td>
<td>5,034</td>
<td>7.3</td>
<td>1,183</td>
<td>17,527</td>
<td>6.0</td>
<td>3,393</td>
<td>1,129</td>
<td>5.5</td>
<td>199</td>
<td>23,690</td>
<td>6.3</td>
<td>4,775</td>
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<tr>
<td>Tower Hill, (WA)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4,604</td>
<td>3.9</td>
<td>574</td>
<td>489</td>
<td>3.3</td>
<td>51</td>
<td>5,093</td>
<td>3.8</td>
<td>625</td>
<td></td>
</tr>
<tr>
<td>Simberi Oxide, (PNG)</td>
<td>2,414</td>
<td>1.3</td>
<td>103</td>
<td>10,562</td>
<td>1.1</td>
<td>376</td>
<td>12,886</td>
<td>0.9</td>
<td>383</td>
<td>25,862</td>
<td>1.0</td>
<td>862</td>
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</tr>
<tr>
<td>Simberi Sulphide, (PNG)</td>
<td>2,897</td>
<td>1.6</td>
<td>150</td>
<td>43,450</td>
<td>1.7</td>
<td>2,375</td>
<td>18,591</td>
<td>1.4</td>
<td>810</td>
<td>64,938</td>
<td>1.6</td>
<td>3,335</td>
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<tr>
<td>Total (30 June 2019)</td>
<td>10,345</td>
<td>4.3</td>
<td>1,436</td>
<td>76,143</td>
<td>2.7</td>
<td>6,718</td>
<td>33,095</td>
<td>1.4</td>
<td>1,443</td>
<td>119,583</td>
<td>2.5</td>
<td>9,597</td>
<td></td>
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<tr>
<td>Atlantic Gold, (NS)</td>
<td>25,180</td>
<td>1.2</td>
<td>936</td>
<td>32,230</td>
<td>1.1</td>
<td>1,183</td>
<td>6,060</td>
<td>1.3</td>
<td>252</td>
<td>63,470</td>
<td>1.2</td>
<td>2,371</td>
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<tr>
<td>Total All Projects</td>
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<td>2.1</td>
<td>2,372</td>
<td>108,373</td>
<td>2.3</td>
<td>7,901</td>
<td>39,155</td>
<td>1.3</td>
<td>1,695</td>
<td>183,053</td>
<td>2.0</td>
<td>11,968</td>
<td></td>
</tr>
</tbody>
</table>

Notes
1. Mineral Resources are reported inclusive of Ore Reserves.
2. Cut-off Grades: Gwalia (2.5g/t Au), Tower Hill (2.5g/t Au), Simberi Oxide (0.4g/t Au), Simberi Transitional and Sulphide (0.6g/t Au).
3. Simberi Mineral Resources are reported constrained by a US$1,800/oz pit shell.
4. Data is rounded to thousands of tonnes and thousands of ounces. Discrepancies in totals may occur due to rounding.
6. The information for the Atlantic Gold Mineral Resources or Ore Reserves is extracted from the report entitled ‘Moose River Consolidated Mine, Nova Scotia, Canada, NI 43-101 Technical Report’ created on 25 March 2019 and is available to view at stbarbara.com.au. The company confirms that it is not aware of any new information or data that materially affects the estimates of Mineral Resources or Ore Reserves, that all material technical assumptions and technical parameters underpinning the estimates in the market 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 market announcement.

Shareholders\(^1\) and broker coverage

1. Shareholder data as at 15 October 2019
2. As notified by substantial shareholders to 12 November 2019

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Substantial Shareholders\(^2\)

- Van Eck 12%
- Shares on issue 699M
- American Depositary Receipts (ADR) trade in USA through BNY Mellon (ADR OTC Code ‘STBMY’)

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Broker Research Coverage

- Argonaut: James Wilson
- Canaccord: Reg Spencer
- Citi: Kate McCutcheon
- Credit Suisse: Mike Slifirski
- GMR: David Radclyffe
- Goldman Sachs: Matthew Frydman
- JP Morgan: Levi Spry
- Macquarie: Ben Crowley
- RBC: Paul Hissey

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Shareholders:

- Institutional 84%
- Non Institutional 5%
- Not analysed 11%

Geographical Breakdown:

- Australia 38%
- USA 32%
- UK 9%
- Other 10%
- Not analysed 11%
Board of Directors

**Tim Netscher**
Chairman – Non Executive
Appointed Director February 2014
Appointed Chairman July 2015

Mr Netscher is an experienced international mining executive with extensive operational, project development, transactional and sustainability experience gained in senior executive and board roles over many years. Mr Netscher’s experience covers a wide range of resources including nickel, coal, iron ore, uranium and gold and regions including Africa, Asia and Australia. Mr Netscher is a director of ASX listed Gold Road Resources Limited and Western Areas Limited.

**David Moroney**
Director – Non Executive
Appointed March 2015

Mr Moroney is an experienced finance executive with more than 30 years’ experience in senior corporate finance roles, including 15 years in the mining industry, and extensive international work experience with strong skills in finance, strategic planning, governance, risk management and leadership. Mr Moroney is an independent non-executive director of non-ASX listed WA Super (Western Australia’s largest public offer superannuation fund) and Hockey Australia Ltd.

**Stef Loader**
Director – Non Executive
Appointed November 2018

Ms Loader is a company director, geologist and former mining executive with experience in mining operations, mineral exploration and project development. Ms Loader’s experience covers a wide range of commodities and regions including copper and gold in Australia, Laos, Chile and Peru, and diamonds in Canada and India. Ms Loader advises organisations, as a director and consultant, in the areas of leadership, strategy and regional economic development and is an independent non-executive director of ASX listed Clean TeQ Holdings Ltd.

**Bob Vassie**
Managing Director and CEO
Appointed July 2014

Mr Vassie is a mining engineer with over 30 years’ international mining industry experience and has 18 years’ experience in a range of senior management roles with Rio Tinto. He has particular experience in operations management, resource development strategy, mine planning, feasibility studies, business improvement, corporate restructuring, and strategic procurement. Mr Vassie is an independent non-executive director of ASX listed Alliance Mineral Assets Limited.

**Kerry Gleeson**
Director – Non Executive
Appointed May 2015

Ms Gleeson is an experienced corporate executive with over 25 years’ boardroom and senior management experience across Europe, North America and Australasia. A qualified lawyer in both UK and Australia, Ms Gleeson has significant experience in international governance, strategic mergers and acquisitions and complex finance transactions, as well as in risk and crisis management. Ms Gleeson is a Non-Executive Director of Trinity College, University of Melbourne.

**Steven Dean**
Director – Non Executive
Appointed July 2019

Mr Dean’s extensive international mining experience includes a wide range of commodities and regions including gold in Canada and Australia, metallurgical coal in North America, and copper, zinc and energy in Canada, United States, Chile and Peru. Previously Chairman and CEO of Atlantic Gold Corporation, and former President of Teck Cominco Limited (now Teck Resources Ltd), Canada’s largest diversified resource company, Mr Dean is a non-executive director of TSX listed Sierra Metals Inc, and Chairman of TSX listed Oceanic Iron Ore Corp.
Executive Leadership Team

**Bob Vassie**  
Managing Director and CEO  
*Appointed July 2014*  

Mr Vassie is a mining engineer with over 30 years’ international mining industry experience and has 18 years’ experience in a range of senior management roles with Rio Tinto. He has particular experience in operations management, resource development strategy, mine planning, feasibility studies, business improvement, corporate restructuring, and strategic procurement. Mr Vassie is an independent non-executive director of ASX listed Alliance Mineral Assets Limited.

**Garth Campbell-Cowan**  
Chief Financial Officer  
*Joined 2006*  

Mr Campbell-Cowan is a Chartered Accountant with 30 years’ experience in finance and management positions across a number of different industries. He is responsible for the Group’s Finance function, covering financial reporting and accounting, treasury, taxation, business analysis, capital management, procurement and information technology. Prior to joining St Barbara, he was Director of Corporate Accounting at Telstra and has held senior finance leadership roles with WMC, Newcrest Mining and ANZ.

**Maryse Bélanger**  
President Americas  
*Joined 2019*  

Ms Bélanger joined St Barbara in July 2019, following St Barbara’s acquisition of Atlantic Gold Corporation, of which she was President, Chief Operating Officer and Director. Ms Bélanger brings over 30 years of experience with senior gold companies globally with strengths in studies, technical services and operational excellence and efficiency. Previously, Ms Bélanger has held senior executive roles at Mirabela Nickel Ltd, Goldcorp and Kinross Gold Corporation, and has been an active board member at Mirabela Nickel, True Gold, Newmarket Gold, Sherritt International, Plateau Energy Metals and CEEC International Ltd.

**Rowan Cole**  
Company Secretary  
*Joined 2010*  

Mr Cole joined St Barbara in 2010 as General Manager Corporate Services and was appointed Company Secretary in 2014. He has over 30 years’ experience across chartered accounting, retail banking, private and public companies. Mr Cole’s experience includes external, internal and IT audit, strategy formulation, execution and measurement, process and business improvement, marketing, financial services, head of risk and compliance, chief audit executive and chief financial and risk officer.

**Val Madsen**  
General Manager Human Resources and HSEC  
*Joined 2013*  

Ms Madsen joined St Barbara in September 2013 and leads the Human Resources and Health, Safety, Environment and Community functions. With a Masters in Education and a number of other business qualifications and accreditations, Ms Madsen has particular experience in organisational development, training and development, diversity and employee engagement. Prior to joining St Barbara, Val worked for Newcrest Mining and has extensive experience in Human Resources.
Exploration Results
The information in this presentation 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 presentation that relates to Mineral Resources or Ore Reserves for Gwalia, Tower Hill and Simberi is extracted from the report titled ‘Ore Reserves and Mineral Resources Statements 30 June 2019’ released to the Australian Securities Exchange (ASX) on 21 August 2019 and available to view at stbarbara.com.au. 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 21 August 2019 and 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.

The information for the Atlantic Gold Mineral Resources or Ore Reserves is extracted from the report entitled ‘Moose River Consolidated Mine, Nova Scotia, Canada, NI 43-101 Technical Report’ created on 25 March 2019 and is available to view at stbarbara.com.au. The company confirms that it is not aware of any new information or data that materially affects the estimates of Mineral Resources or Ore Reserves, that all material technical assumptions and technical parameters underpinning the estimates in the market 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 market announcement.

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.

**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 [www.stbarbara.com.au](http://www.stbarbara.com.au) for example

**All-In Sustaining Cost** > 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 [www.stbarbara.com.au](http://www.stbarbara.com.au) for example
Rowan Cole
Company Secretary

David Cotterell
Manager Investor Relations

T: +61 3 8660 1900
E: info@stbarbara.com.au