### **SILVER** MINES LIMITED

# INVESTOR MARKETING

Precious Metals Summit Beaver Creek

Jo Battershill – Managing Director September 10, 2024



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### WHY INVEST IN SILVER MINES LIMITED

- One of the world's largest, undeveloped silver projects
- Resource of 189Moz silver (396 Moz AgEq)<sup>1</sup>
- Reserve of 66Moz silver (97 Moz AgEq) supports production of ~53Moz silver over 16-yrs<sup>1</sup>
- Optimisation program underway anticipated to be finalised in H2 2024
- Options for update of NSW Development Application at Bowdens under review

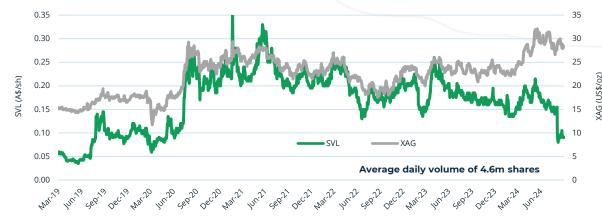
- **Extensive tenement holdings** 2,115km<sup>2</sup> at Bowdens and 747km<sup>2</sup> at Tuena
- Bowdens Silver mineralisation remains open with outstanding drilling results along strike and at depth
- **Drilling expected to commence at Bara Creek in H2** targeting Bowdens analogy (collapsed caldera)
- Drilling targets identified at Tuena
- Well positioned for continued momentum in a positive silver price environment





### SILVER MINES LIMITED CORPORATE INFORMATION

#### **Share Trading History**





#### **Capital Structure (ASX: SVL)**

	AUD	USD
Shares on Issue (m)	1,510	1,510
Share Price (\$) <sup>9 Sept</sup>	0.09	
Undiluted Market Capitalisation (\$m)	) 135.7	90.3
Cash (\$ <i>m, as at end June 2024)</i>	9.5	6.2
Enterprise Value (\$m)	126.2	84.1
Options		
ESOP @ A\$0.30 Dec 2024	9.0m	
ESOP @ A\$0.30 Mar 2026	2.5m	
ESOP @ A\$0.50 Mar 2028 3 Year Milestone @ A\$0.20	2.5m 5.0m	
Executive Performance Rights	12.0m	
Directors		
Keith Perrett	Non-Executive Chairman	

Non-Executive Chairman
Managing Director
Non-Executive Director
Non-Executive Director





### SILVER MINES LIMITED ENVIRONMENTAL, SOCIAL AND GOVERNANCE







### SILVER METAL OF THE FUTURE



### SILVER WHY SILVER?

- Unique conductive and chemical properties
- An important industrial metal with integral roles in electrical applications in green technologies
- Global efforts to decarbonize and electrify will contribute to increased silver demand:
  - Solar powered renewable energy
  - Electric vehicles solid state Ag-C batteries
  - Broadband cellular (5G)





Hedge against inflation



A tangible asset







# SILVER THE METAL OF INNOVAT

#### Growing industrial demand from global transition to decarbonisation and electrification





21% of demand in

electrical applications\*

16% of demand in photovoltaics



5G networks



Medical & sanitary applications



**Batteries** 



Biomedical devices

Water purification

- Dentistry
  - ► Therapeutics
  - Medical imaging



#### Jewellery

- ► Molecular
  - diagnostics



- **Highest electrical conductivity** of all metals
- **Highest thermal conductivity** of all metals
- The best reflector of visible light
- Important component for 5G networks
- Anti-bacterial
- Malleable and ductile





# SILVER KEY STATISTICS / SUPPLY & DEMAND

~1,220M annual consumption

 Industrial applications:
 electronics | solar | medicine | water purification | window manufacturing

**~830M** annual **mine production** 

**Silver price CAGR** 7.8% since 2003 low vs US average annual CPI 2.5%

82% of annual silver supply sourced from mining

**18%** of annual silver supply **sourced from recycling** 

85:1 silver : gold price ratio (Long term average 60:1)

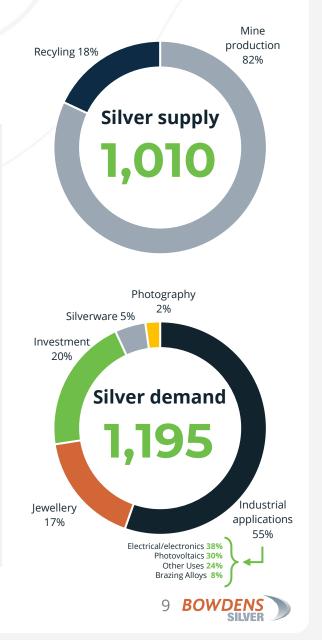
7:1 silver : gold mine supply ratio

**5:1** gold : silver daily traded value ratio

### Deficit

Cumulative deficit of **543Moz** 2021 – 2023 215Moz forecast in 2024

- Five distinct periods of silver demand, three that are strengthening:
  - Monetary (2000 BC to 1936 AD)
  - Photographic (1900 – 1999)
  - Industrial (1940 to present)
  - Investment (2000 to present)
  - Energy (2010 to present)

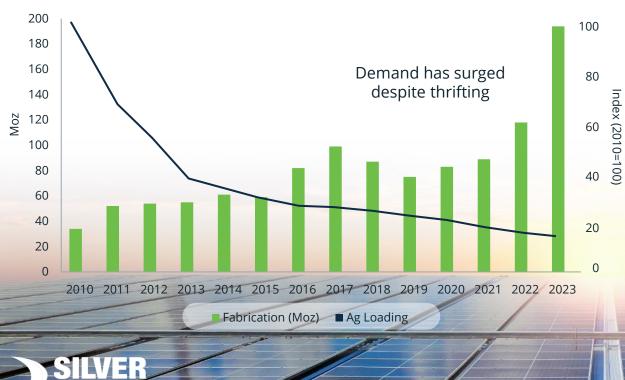




Supply and demand information relates to 2023 estimates from the Silver Institute (www.silverinstitute.org)

### SILVER PHOTOVOLTAIC

#### PV sector consumed 19% of total supply in 2023



- Solar energy is an inexhaustible fuel source that is pollution free
- Solar capacity in China is now greater than the rest of the world combined
- In 2023, China installed more solar panels than the US has in its history
- US government policy states 100% 'clean' electricity grid by 2035
- 3 million solar panels are required to generate
   1GW of energy

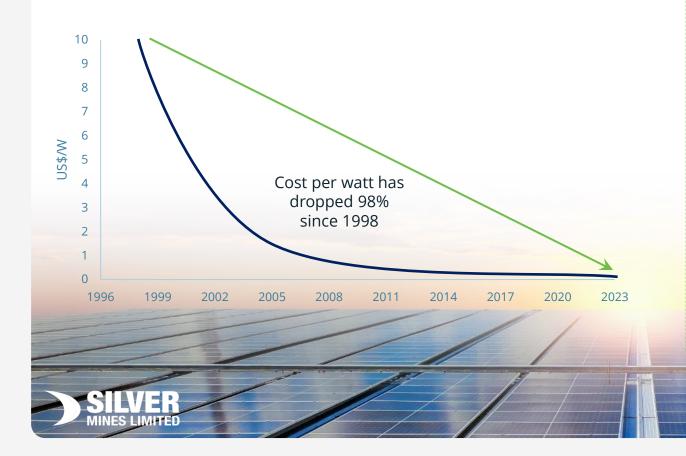
Paving the way for electrification and helping shape the world's cleaner and greener future.

Demand from solar forecast to grow 3x by 2030

Index is based on silver loadings per cell. Source: Metals Focus, April 2023

### SILVER PHOTOVOLTAIC – MORE TO COME

#### Demand has grown despite thrifting in PV usage



- Volume of silver in a typical PV cell is now just 1/10<sup>th</sup> the 1999 amount
- Global annual install of solar capacity was 30GW in 2013, with total installed capacity of 100GW
- By 2023, installed capacity had grown 10x to 1TW with >200GW installed in 2023 alone
- Global targets suggest installed capacity set to grow >70x

The global solar industry is now valued at over \$350bn per annum and is still growing

75TW of capacity required to meet decarbonisation goals globally

### BOWDENS SILVER PROJECT HIGH TECH METALS



Bowdens Silver falls under the New South Wales Government's Critical Minerals and High-Tech Metals Strategy

> Establishing NSW as a world leader for investment in sustainable mining is a key priority for the NSW Government."

... identify critical minerals as an emerging sector and represents a new future for the NSW mining sector."

State royalties from mining are significant (FY2023 = \$6.0 billion) and are budgeted to decrease to \$2.8 billion in FY2026. NSW mining royalties are mostly coal





### INTRODUCTION TO BOWDENS SILVER PROJECT



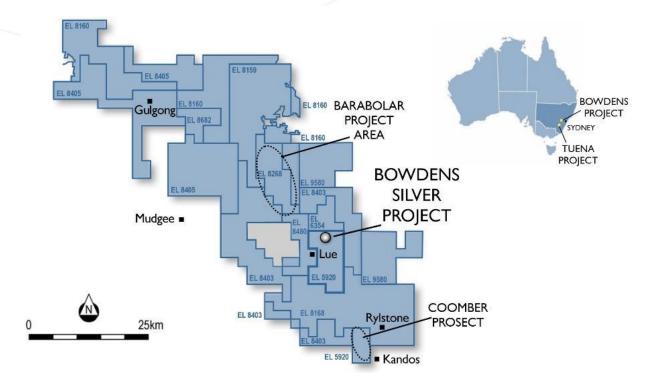
### SILVER MINES LIMITED BOWDENS SILVER PROJECT

#### **Bowdens Silver Project**

<b>Bowdens Silver Project</b> located in central New South Wales, Australia Project <b>100% owned</b>	One of world's largest undeveloped silver deposits with 189Moz silver (396Moz AgEq) in resource						
Development consent recently invalidated after a judicial review Options for regaining	Targeting ~5Moz AqEq per annum over the first 8-yrs Mine life of 16.5 years						
consent under review							
Title covers <b>2 115km<sup>2</sup> (521 000 acres)</b> over 80km of							

### Title covers **2,115km<sup>2</sup> (521,000 acres)** over 80km of strike of highly prospective Rylstone Volcanics

#### **Asset Location**







# BOWDENS SILVER PROJECT OVERVIEW

### Highlights

- The largest silver development project in Australia
- Mineral Resource base of 189Moz silver (396Moz AgEq)<sup>1</sup>
- 100% owned asset located in NSW
- Ready access to existing infrastructure
- Mineral Resource increased by 56% in 2023
- Optimisation targeting potential extension to mine life
- 2.0Mtpa plant producing single high-grade concentrate
- Targeting annual production 5.0 5.5Moz AgEq in first 8-yrs

#### **Timeline of major milestones**



#### Reserves and Resources(1 & 2)

Tonnes		Grade								
	Mt	Ag g/t	Zn %	Pb %	AgEq g/t	Ag Moz	Zn kt	Pb kt	Au koz	AgEq Moz
Ore Reserve	30	69	0.44	0.32	101	66	131	95	-	97
Mineral Resource	200	29	0.37	0.26	62	189	486	333	190	396

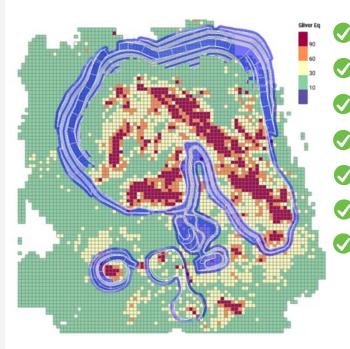


2. Bowdens silver equivalent: Ag Eq (g/t) = Ag (g/t) + 33.48\*Pb (%) + 49.61\*Zn (%) + 80\*Au (g/t) calculated from prices of US\$20/oz silver, US\$1.50/lb zinc, US\$1.00/lb lead, US\$1600/oz gold and metallurgical recoveries of 85% silver, 82% zinc and 83% lead, 85% gold estimated from test work commissioned by Silver Mines Limited.



### **BOWDENS SILVER PROJECT OPTIMISATION PROGRAM**

### 2018 Feasibility Study<sup>1</sup>



<ul> <li>29.9Mt Ore</li> <li>16.5-yr life</li> <li>52.9Moz Ag</li> <li>48.2Mt Waste</li> </ul>	Updated mine optimisation and design ongoing	Reserve of 29.9Mt from Feasibility Study to be updated in H2 2024	Metallurgical flotation optimisation program <b>targeting increased</b> <b>payable Ag recovery</b>
1.6:1 Strip Ratio 108kt Zn 79kt Pb	<b>LOM strip ratio is</b> <b>expected to decrease</b> from an already low 1.6:1	<b>Reduced development</b> <b>footprint</b> with updated design to the mine, waste dumps and TSF	Feasibility Study optimisation program targeted for completion H2-2024
	Options for the NSW State D	evelopment Application <b>Und</b>	er review

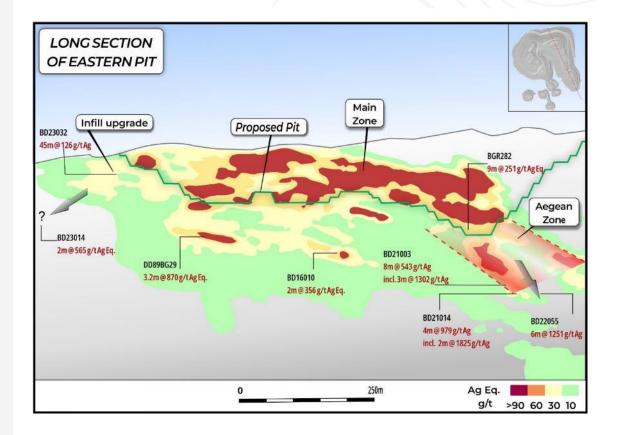
**Optimisation Program** 

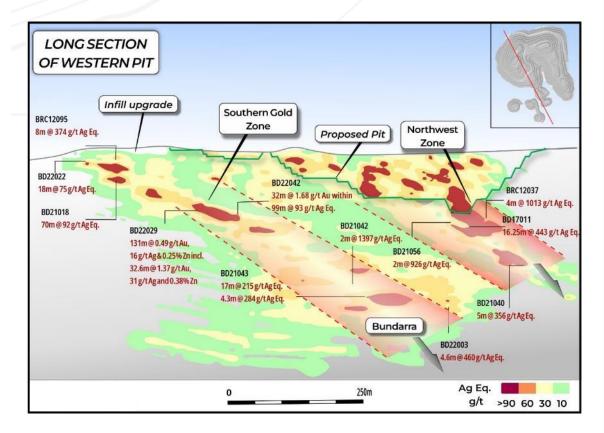
Options for the NSW State Development Application unit





### BOWDENS SILVER EXPLORATION STRIKE AND DEPTH EXTENSIONS









# BOWDENS SILVER PROJECT KEY CONCLUSIONS

- Largest silver development project in Australia
- Resource of 396 Moz AgEq and Reserve of 97 Moz AgEq<sup>1</sup>
- Options for update of NSW Development Application under review

- Considerable exploration potential
- Large mineralised system remains open at depth
- Gold and copper identified within the broader mineralised system

- Bowdens Feasibility Study completed in 2018
- Optimisation of the Feasibility Study ongoing - to be completed H2-2024
- Smaller development footprint anticipated from optimisation

- 2Mtpa project producing ~53Moz
   Ag over LOM and
   ~5Moz p.a. in the earlier years
- Targeting low cash cost in first 8 years
- Strong EBITDA and cash flow

- Assets located in a low-risk jurisdiction for mining development
- Ready access to existing infrastructure

- Single open-cut mine with uncomplicated mining
- Low strip ratio and standard metallurgy
- Initial mine life of c.16 years
- Potential expansion opportunities from open pit and underground







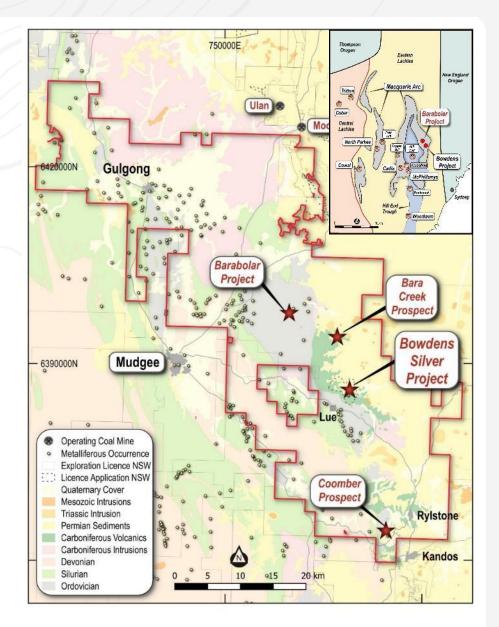
### REGIONAL EXPLORATION A MAJOR MINERALISED SYSTEM



AC1314

# BOWDENS SILVER PROJECT REGIONAL GEOLOGY

- Extensive tenement holding (2,115 km<sup>2</sup> = 521,000 acres)
- 100% controlled by Silver Mines
- Wide range of prospective deposit types
- Seastern limb of the Macquarie Arc potential for significant mineralisation
- Mid-Carboniferous **Rylstone Volcanics** (~325Ma) within the deposit
- Overlain by the Permo-Triassic Sydney Basin **sediments** ( < 270 Ma)
- Sowdens deposit low to intermediate sulphidation
- Carbonate silver-base metal-gold epithermal system
- Vein types: breccia, stringer, dissemination, banded and colloform textured
- Mineralisation age is ~321 Ma





# REGIONAL TARGETS EXPLORATION

#### Coomber

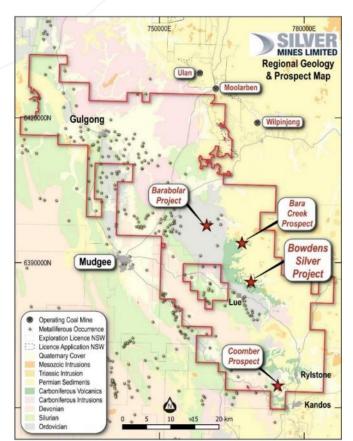
- Mineralisation from surface - Bowdens Silver analogue
- Historical drilling by CRAE and SSA in 1997 includes:
  - ▶ 58m @ 89 g/t AgEq
  - ▶ 50m @ 53 g/t AgEq
- Max depth of drilling to 144m (av. 66m)
- Seismic survey outlines large caldera structure ~2.5 to 3km wide

#### Barabolar

- Extensive copper-gold anomalism including mineralised skarn over 5000 x 800 metres
- Porphyry system type alteration assemblages
- Pyrophyllite deposit demonstrates surface is above the porphyry system
- Seismic program complete, interpretation in process

### Bara Creek

- Situated on the Bowdens Silver caldera northern rim
- Original stream sediment discovery in 1989 by CRA
- Gold, copper, silver and antimony anomalism source unknown







### SILVER MINES LIMITED TUENA GOLD PROJECT



**Location** South of Blayney, NSW





Limited modern drilling Best hit 4m @ 6.9g/t

Previously unrecorded historic workings **identified** 



**Geological analogies** to McPhillamys Gold Project

### Airborne magnetics & radiometrics

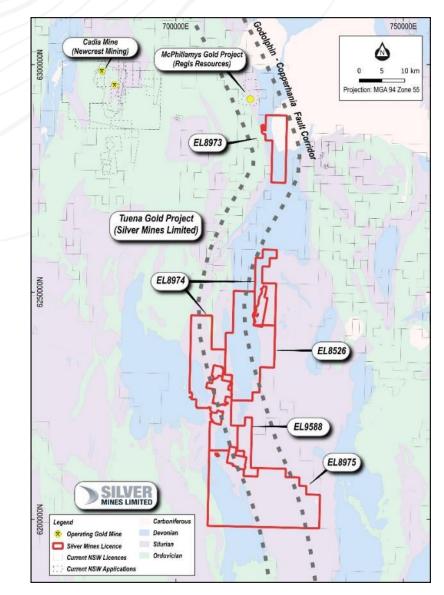
completed on EL8526 & EL9588



747 km<sup>2</sup> of exploration licenses

extending over 60km - all granted, all 100%

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**Registered Office:** Level 28, 88 Phillip Street Sydney NSW 2000

**Postal Address** GPO Box 255 Sydney NSW 2000

**Australian Company Number** 107 452 942





### APPENDIX



### APPENDIX 1: BOWDENS SILVER MINERAL RESOURCES (AS AT MARCH 2023)

30 g/t Ag Eq Cut	Tonnes (Mt)	Silver Eq. (g/t)	Silver (g/t)	Zinc (%)	Lead (%)	Gold (g/t)	Million Ounces Silver	Million Ounces Silver Eq.
Measured	107	68	40	0.36	0.25	0.03	137	235
Indicated	50	55	20	0.38	0.26	0.09	33	88
Measured & Indicated	157	64	33	0.36	0.25	0.05	169	323
Inferred	43	54	14	0.39	0.29	0.13	19	73
Total	200	62	40	0.37	0.26	0.07	189	396

The Bowdens Mineral Resource Estimate has been compiled by H&S Consultants Pty Ltd using Multiple Indicator Kriging and the reporting is compliant with the 2012 JORC Code and Guidelines. For full disclosures refer to the Silver Mines Limited announcement of 31st March 2023.

- 1. Bowdens silver equivalent: Ag Eq (g/t) = Ag (g/t) + 33.48\*Pb (%) + 49.61\*Zn (%) + 80\*Au (g/t) calculated from prices of US\$20/oz silver, US\$1.50/lb zinc, US\$1.00/lb lead, US\$1600/oz gold and metallurgical recoveries of 85% silver, 82% zinc and 83% lead, 85% gold estimated from test work commissioned by Silver Mines Limited.
- 2. Bowdens Silver Mineral Resource Estimate reported to a 30g/t Ag Eq cut off extends from surface and is trimmed to above 300 metres RL, approximately 320 metres below surface, representing a potential target volume for future open-pit mining and expansion.
- 3. In the Company's opinion, the silver, zinc, gold and lead included in the metal equivalent calculations have a reasonable potential to be recovered and sold.
- 4. Stated Mineral Resources are partially inclusive of areas of the total Underground Mineral Resource Estimate at 150 g/t Silver Equivalent (Ag Eq) Cut-off Grade above 300mRL. See ASX announcement dated 5th September 2022.
- 5. Variability of summation may occur due to rounding.





### APPENDIX 2: BOWDENS SILVER ORE RESERVE (AS AT MAY 2018)

	Tonnes (Mt)	Silver Eq. (g/t)	Silver (g/t)	Zinc (%)	Lead (% )	Silver Eq. Million Ounces	Silver Million Ounces	Zinc Kilo-tonnes	Lead Kilo-tonnes
Proved	28.6	102.2	69.75	0.44	0.32	93.85	64.05	125.11	91.43
Probable	1.3	84.4	53.15	0.43	0.29	3.60	2.27	5.74	3.91
Total	29.9	101.4	69.01	0.44	0.32	97.45	66.32	130.84	95.33

The Bowdens Reserve has been compiled by AMC Consultants Pty Ltd and is based on the September 2017 Mineral Resource Estimate generated for Silver Mines by H & S Consultants Pty Ltd (see ASX announcement 19 September 2017). For full disclosures refer to the Silver Mines Limited announcement of 30 May 2018.

- 1. Calculations have been rounded to the nearest 100,000 t, 0.1 g/t silver and 0.01% zinc and lead grades respectively. The Ore Reserve is reported by economic cut-off grade with appropriate consideration of modifying factors including costs, geotechnical considerations, mining and process recoveries and metal pricing.
- 2. Bowdens' silver equivalent: Ag Eq (g/t) = Ag (g/t) + 33.48\*Pb (%) + 49.61\*Zn (%) calculated from prices of US\$20/oz silver, US\$1.50/lb zinc, US\$1.00/lb lead and metallurgical recoveries of 85% silver, 82% zinc and 83% lead estimated from test work commissioned by Silver Mines Limited.





### COMPETENT PERSONS STATEMENTS

#### **Mineral Resources**

The information in this report that relates to Mineral Resources is based on work compiled by Mr Arnold van der Heyden who is a Director of H & S Consultants Pty Ltd. Mr van der Heyden is a Member and Chartered Professional (Geology) of the Australian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity being undertaken, 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' (JORC code). Mr van der Heyden consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

#### **Ore Reserve**

The information in this report that relates to Ore Reserves within the Bowdens Silver Project is based on information compiled or reviewed by Mr Adrian Jones of AMC Consultants Pty Ltd who is a consultant to the Company. Mr Jones is a member of the Member of the Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity being undertaken, 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' (JORC code). Mr Jones consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

Mr Jones visited the Bowdens mine site during April 2017 to review the operations, consider the conditions of the site, and assess the data collection methods and techniques used by site personnel.

The Ore Reserve has been prepared by Mr Adrian Jones, AMC Consultants Pty Ltd, after peer review of the mining section of the Feasibility Study. Other experts relied upon include H & S Consultants Pty Ltd, GR Engineering Services Limited, ATC Williams Pty Limited. and Jacobs Australia Pty Limited, for Mineral Resources, Metallurgy & Process Design and Tailing Storage Facility design. Work on environmental, marketing and logistics and the financial modelling were undertaken by other consultants on behalf of the Company and certified by representatives of Silver Mines.

#### **Exploration and Drill Results**

The information in this report that relates to mineral exploration drill results from the Bowdens Silver Project and Tuena Gold Project is based on information compiled or reviewed by Dr Darren Holden who is an advisor to the company. Dr Holden is a Fellow of the Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity being undertaken, 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' (JORC code). Dr Holden consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.



