



# Blackham Resources Limited

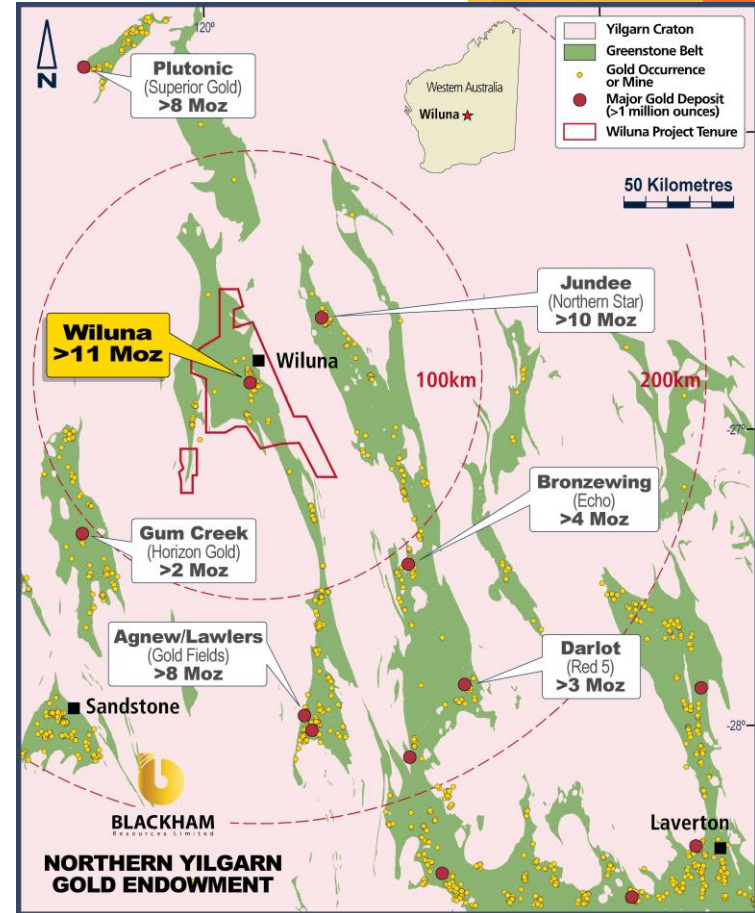
## August 2019

▶ ASX:BLK

# Company Overview

- ▶ Current operation focused on safely and consistently mining & processing 2Mtpa free milling ore at reduced costs
- ▶ Focused on a debt reduction and balance sheet enhancement program
- ▶ FY19 production of 65.4koz @ AISC of A\$1,760/oz
- ▶ FY20 guidance 70k-80koz @ AISC of A\$1,550-1,750/oz
- ▶ Transitioning to a low capex, low risk sulphide mining & tailings retreatment operation at ~100-120koz pa production<sup>3</sup>
- ▶ +1,600 km<sup>2</sup> of tenure & 55 km of strike across four large gold systems in Australia's biggest gold belt
- ▶ Resources 96 Mt @ 2.2 g/t for 6.7Moz Au<sup>1</sup> (58% Indicated), Reserves 26 Mt @ 1.8 g/t for 1.5Moz Au<sup>2</sup>
- ▶ Potential for large scale sulphide operation in the future
- ▶ Experienced Board and renewed Management team

(1) Refer to ASX release dated 13 September 2018  
 (2) Refer to ASX release dated 31 October 2018  
 (3) Refer to ASX release dated 28 February 2019



# Corporate Information

## MILAN JERKOVIC - EXECUTIVE CHAIRMAN

Mr Jerkovic is a qualified geologist with postgraduate qualifications in mining & mineral economics and over 30 years of experience in the mining industry involving resource evaluation, operations, financing, acquisition, development and general management. He is a non-executive Director of Metals X Limited.

Mr Jerkovic was previously the CEO of Straits Resources Limited and has held positions with WMC, BHP, Nord Pacific, Hargraves, Tritton, Straits Asia Resources (as founding Chairman) and Geopacific. He is a fellow of the AIMM and a member of the Australasian Institute of Company Directors.

## TONY JAMES - NON-EXECUTIVE DIRECTOR

Mr James is a mining engineer with considerable operational, new project development and corporate experience, including roles as Managing Director of Carbine Resources, Atherton Resources and Mutiny Gold. Mr James held a number of senior executive positions with international gold producer Alacer Gold Corporation, including President of its Australian Operations following the merger between Antolia Minerals and Avoca Resources in 2011. He also played a key role in Avoca's initial growth and success, leading the feasibility, development and operations of the Higginsville Gold Operations.

## GREG FITZGERALD - NON-EXECUTIVE DIRECTOR

Mr Fitzgerald is a Chartered Accountant with more than 30 years of gold mining and resources related experience, and extensive executive experience in managing finance and administrative matters for listed companies. He held the positions of Chief Financial Officer and Company Secretary for ASX 200 company, Resolute Mining Limited, for more than 15 years.

## ANTHONY RECHICHI - CFO

Mr Rechichi is a Chartered Accountant and a highly accomplished senior accounting and finance professional with over 17 years of experience in public companies and professional services, predominantly in the gold mining industry. Mr Rechichi spent ten years with Resolute Mining Limited where he most recently performed the role of General Manager - Finance with responsibilities for three operating gold mines.

## NEIL MEADOWS - GENERAL MANAGER PROJECTS & BUSINESS IMPROVEMENT

Mr Meadows is a qualified metallurgist with over 30 years experience in the mining and processing industries. He most recently worked as Chief Operating Officer for European Metals Holdings Limited and has previously worked at Karara Mining Ltd, IMX Resources Limited, Queensland Nickel Pty Ltd and at Minara Resources Ltd. His technical qualifications are supported by a Graduate Diploma in Business Administration from Charles Sturt University, along with a Diploma of the Australian Institute of Company Directors.

## GUY SIMPSON - GENERAL MANAGER OPERATIONS & PLANNING

Mr Simpson is a Mining Engineer from the WA School of Mines with 25 years experience in underground and open pit gold mines both in Australia and internationally. Formerly General Manager at the Jerritt Canyon Gold Mine in Nevada and General Manager Technical Services at Norton Goldfields, Mr Simpson brings to Blackham a wealth of technical operations experience and a strong business focus.

## CAIN FOGARTY - GENERAL MANAGER EXPLORATION & BUSINESS DEVELOPMENT

Mr Fogarty is an Exploration geologist with post-graduate qualifications in mineral economics and 20 years of experience in the mining industry, particularly in near-mine reserve growth, greenfields exploration, and acquisition due diligence. He brings a wealth of multi-commodity, global experience from working with major and junior mining companies in Australia, Africa and China. Prior to joining Blackham, Mr Fogarty worked on the successful exploration and development of Equinox Mineral's copper projects in Zambia, with CSA Global on the Caijiaying Zn-Au mine in China, and with Barrick Gold in near-mine exploration at WA gold mines.

CAPITAL STRUCTURE <sup>1</sup>	AXS:BLK
Current share price	0.01
Shares on issue	3,768,589,808
Quoted Options	673,638,562
Unquoted Options	175,537,988
Market cap	\$38m
Major Shareholder	MACA Limited - 17.29%
Milan Jerkovic (Executive Chairman) shareholding	1.71%

1) As at 2 August 2019

# CURRENT OPERATIONS

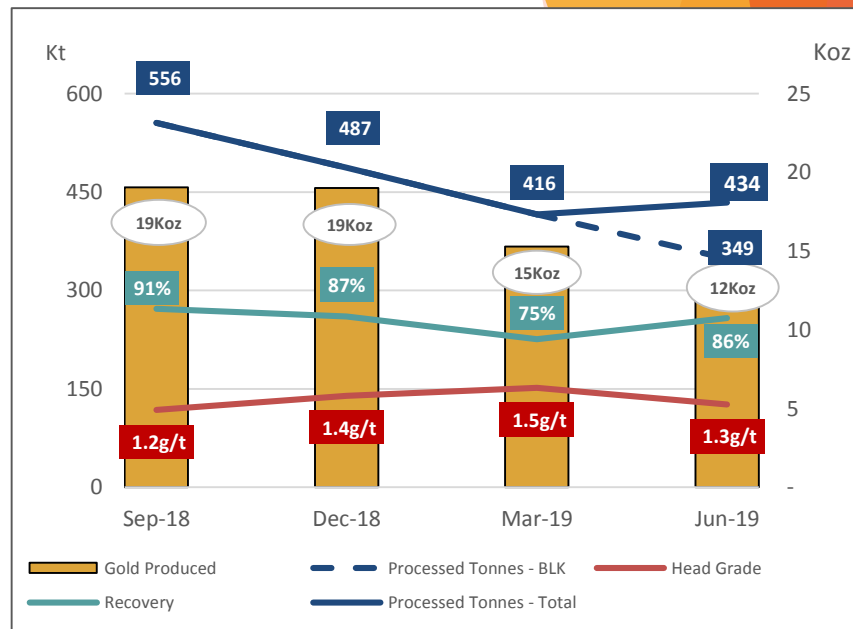
# Near Term Operational Focus

- ▶ Continue mining & processing of free milling gold now being accessed in several pits
- ▶ Re-establish mining activities at Williamson pit Q1 FY20
- ▶ Study Lennon prospect and Golden Age U/G extensions to enable continuation of U/G mining
- ▶ Complete feasibility study on Golden Monarch project in JV with GWR
- ▶ Focus on operating costs, mill recovery, availability and utilisation
- ▶ Strong production outlook for Q1 FY20 @ 17,500-19,500oz @ A\$1,550-\$1,750/oz
- ▶ Production guidance for FY20 of 70,000-80,000oz @ an AISC of A\$1,550-A\$1,750/oz



# Operational Summary - 2019

- ▶ Operational challenges in FY19 - 65koz production at AISC of A\$1,760/oz
- ▶ Mar'19 and Jun'19 quarters saw significant investment in mining development with benefits to be seen over the next 6 months:
  - ▶ M1 North cutback completed with the main ore zone available for mining in the Sep'19 quarter
  - ▶ High waste stripping in Jun'19 quarter at the Wiluna open pits (including Happy Jack North and Essex) have improved the availability of ore, with lower waste stripping levels during the Sep'19 quarter
  - ▶ Stoping of Golden Age Lower U/G to commenced, providing increased volume of high-grade ore
  - ▶ Higher grade ore currently being stockpiled
  - ▶ FY20 average stripping ratio expected to decrease from 9 (FY19) to 7



# SULPHIDE TRANSITION PROJECT

# Sulphides & Tailings Treatment Transition

- ▶ Non-binding term sheet for funding executed. Due diligence commenced.
- ▶ Total production approximately 100,000 to 120,000 oz per annum<sup>1</sup>
- ▶ Plan to transition to concentrate production in FY21
- ▶ All previous geological data transitioned to a single model
- ▶ Based on predominately 0.75Mtpa U/G sourced sulphide ore
- ▶ Current total Sulphide reserve approximately 980koz
- ▶ Wiluna Tailings reserve 234koz

1) Refer ASX Announcement dated 28 February 2019

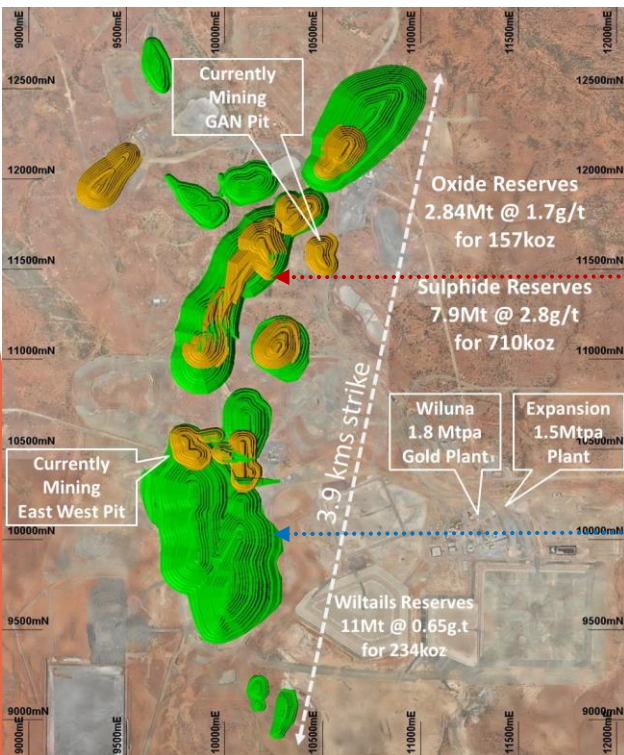


# Sulphides & Tailings Treatment Transition (cont.)

- ▶ Advanced design of flotation and concentrate dewatering plant, to be converted into EPC contract in Q1 FY20
- ▶ Strong demand from parties to secure gold concentrate offtake
- ▶ Free milling ore to be replaced with tailings retreatment at 2Mtpa
- ▶ Wiltails design to be progressed Q1 FY20
- ▶ Development and exploration expenditure for the construction of the flotation plant, underground infrastructure, and pre-production expenditure for the East-West and Bulletin sulphide deposit is forecast to commence in October 2019, subject to finalisation of funding

# Wiluna Sulphide Reserves 980koz @ 3.2g/t Au

- ▶ Mining free milling pits de-risks the open pit sulphide reserves
- ▶ Extensive underground development access already in place

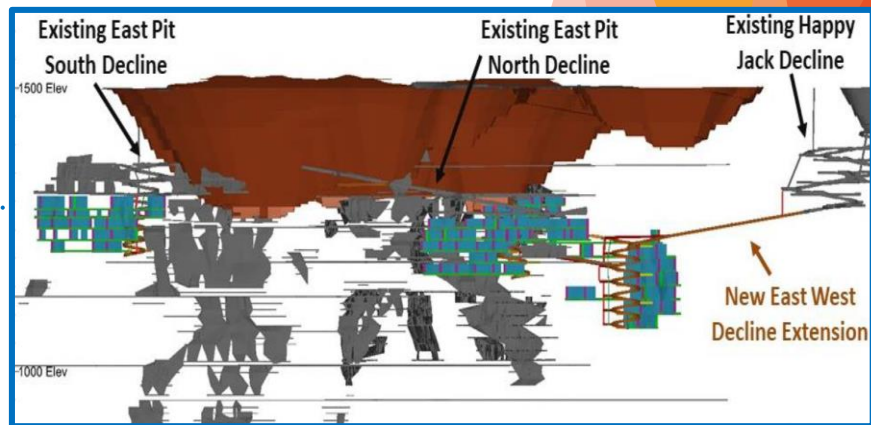
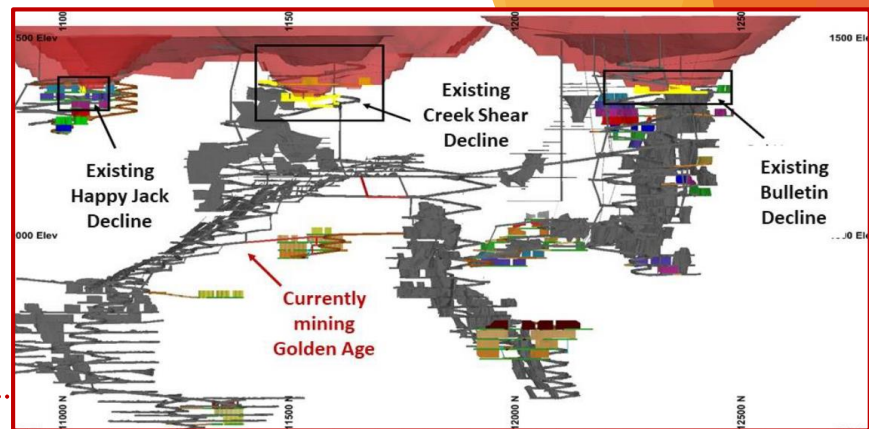


**Bulletin – Happy Jack  
Probable Reserves  
155koz @ 4.6g/t Au<sup>1</sup>**

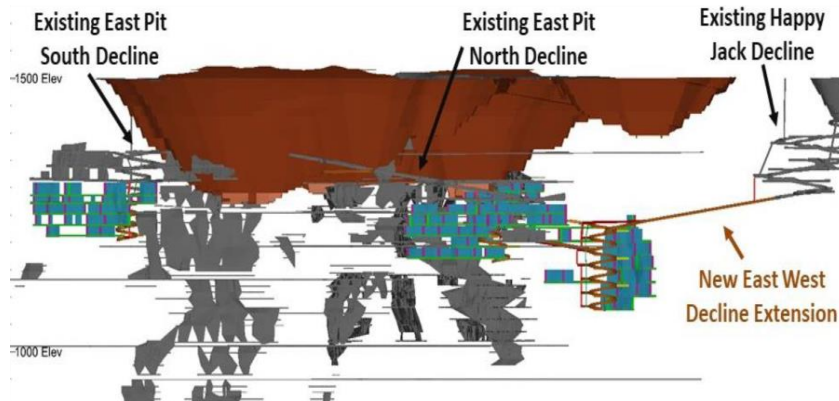
**5 existing declines  
over 3.9kms of  
strike = low  
development cost**

**East West  
Probable Reserves  
115koz @ 5.0g/t Au<sup>1</sup>**

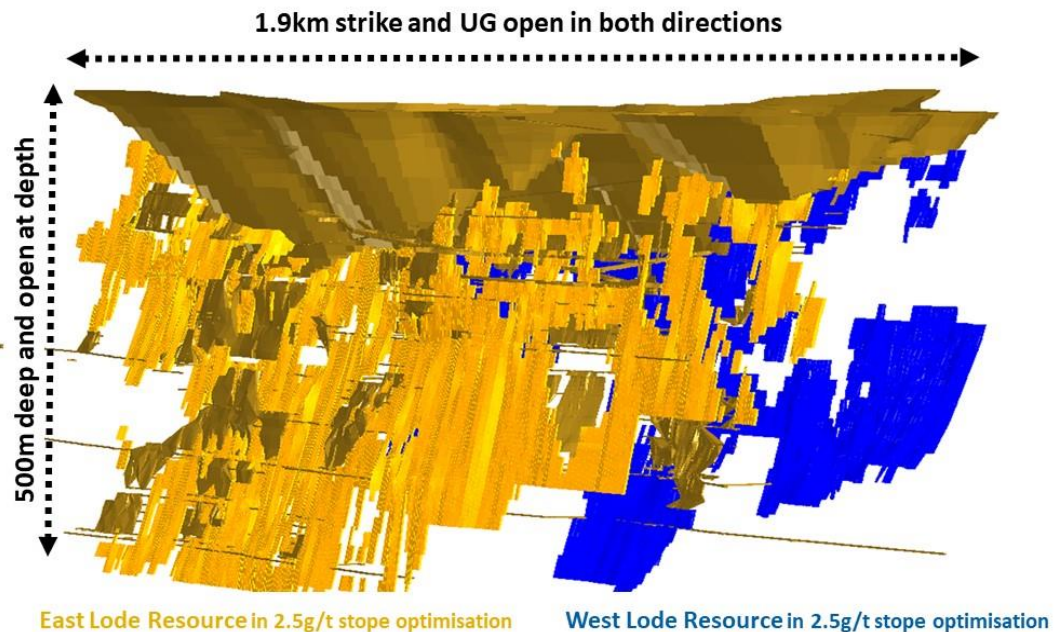
(1) Refer to ASX release dated 31 October 2018



# East West Underground Resources



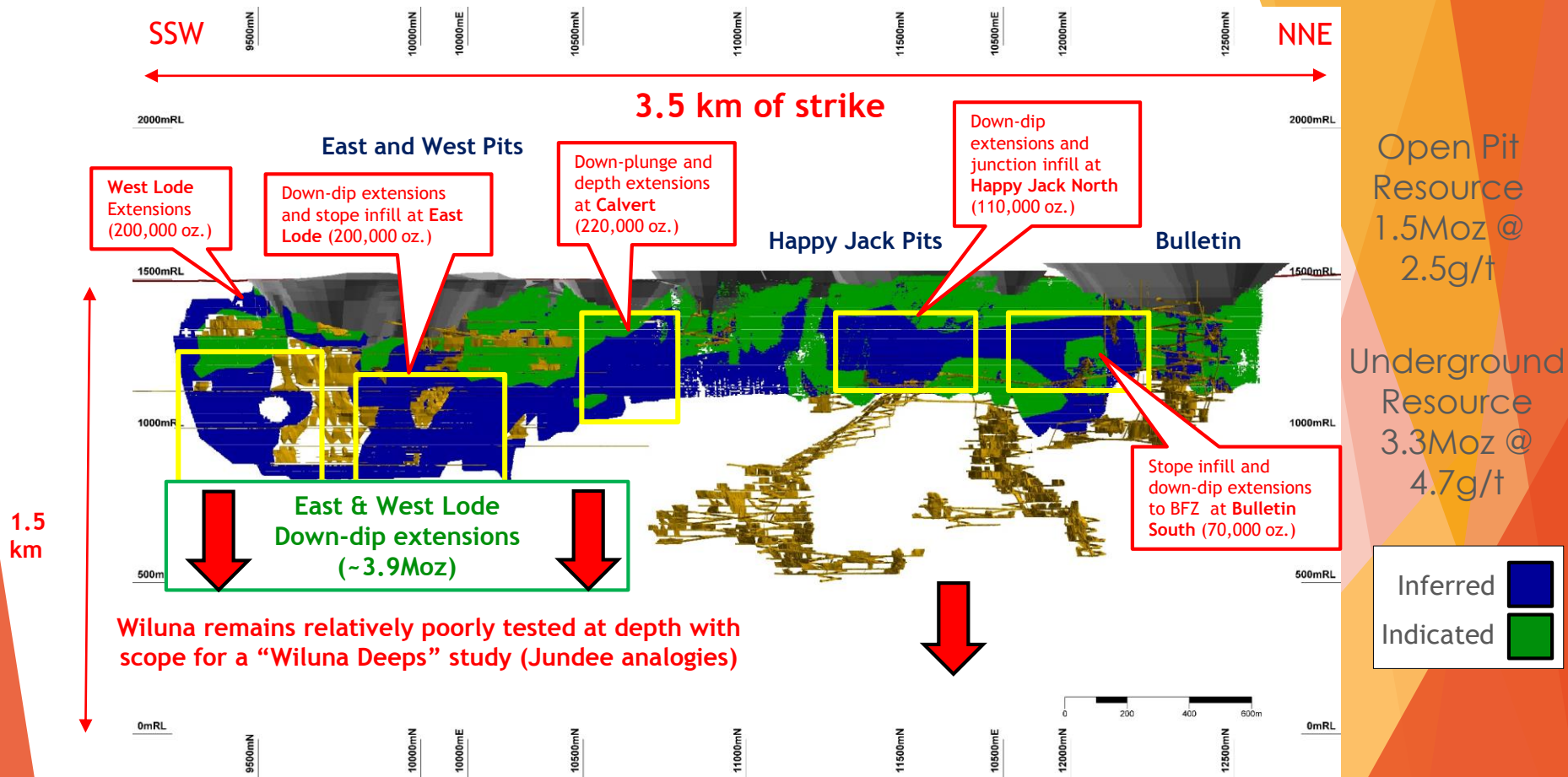
- ▶ UG Probable Reserves 115koz @ 5.0g/t Au<sup>2</sup>
- ▶ 2 large lodes up to 30m wide
- ▶ 1.9km strike and open to the south
- ▶ 3.9Moz endowment in top 500m
- ▶ Extensive UG Resource beyond reserves requires further drilling
- ▶ Very large exploration target in next 500m vertical



**2.1Moz mined mainly in period from 1930-1946**  
**Resource 1.8Moz @ 3.8g/t Au to 500m depth 3,600oz/vm**

(1) Refer to ASX release dated 13 September 2018  
 (2) Refer to ASX release dated 31 October 2018

# Targeted Resource to Reserve Conversion



# Blackham & SO4 Sales Agreement

- ▶ Sale of Lake Way Tenements to Salt Lake Potash Limited (ASX:SO4)<sup>1</sup>
- ▶ Blackham retains certain gold mining rights for those tenements and the sale does not restrict Blackham's intended mining activities, nor impact Blackham's JORC gold resources and reserves
- ▶ Cash consideration payable by SO4 of \$10m (\$3m non-refundable deposit received in July 2019, \$7m payable at completion)
- ▶ SO4 will also contribute a further \$10m to the pre-strip of the Williamson open pit, which Blackham expects to commence this quarter
- ▶ De-risks Blackham's transition to Stage 1 of its Sulphide Expansion Project<sup>2</sup>
- ▶ Transaction expected to complete by the end of September 2019

1) Refer ASX announcement on 23 July 2019

2) Refer ASX announcement on 28 February 2019



# Summary

- ✓ Free-milling production delivering operational cash flow. Improvements to be seen in the current quarter
- ✓ Completed “right sizing” of mining, cost cutting initiatives and operational improvements
- ✓ Low cost, low risk, near-term interim expansion to initial 100-120koz pa gold production, initial 6 year mine life and targeting +10 years
- ✓ Allows Blackham to immediately focus on mining its highest margin reserves with flexibility to process free milling and sulphide ores
- ✓ An opportunity remains to extend open pit mine life and convert large underground Resources (23.3Mt @ 4.6g/t Au for 3.5Moz) into Reserves
- ✓ Pathway to ~250,000 oz pa with low operating cost and long mine life in a Tier 1 mining jurisdiction

# CONTACT

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# APPENDICES



# Gold Ore Reserves - as at 30 June 2018

OPEN PIT RESERVES												
Mining Centre	Proved			Probable			Total 100%			Free Milling		
	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au
Matilda	0.03	1.7	2	1.23	1.7	68	1.26	1.7	70	1.26	1.7	70
Williamson				0.95	2.2	68	0.95	2.2	68	0.95	2.2	68
Wiluna				10.74	2.5	867	10.74	2.5	867	2.84	1.7	157
Stockpiles	0.54	0.8	15				0.54	0.8	15	0.54	0.8	15
OP Total	0.57	0.9	16	12.92	2.4	1,003	13.49	2.3	1,019	5.59	1.7	309
UNDERGROUND RESERVES												
Mining Centre	Proved			Probable			Total 100%			Free Milling		
	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au
Golden Age				0.04	6.1	7	0.04	6.1	7	0.04	6.1	7
East West				0.72	5.0	115	0.72	5.0	115			
Bulletin <sup>1</sup>				1.03	4.6	155	1.03	4.6	155			
UG Total				1.79	4.8	277	1.79	4.8	277	0.04	6.1	7
Wiluna Tailings												
Mining Centre	Proved			Probable			Total 100%			Free Milling		
	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au
Tailings Total				11.20	0.7	234	11.20	0.7	234	11.20	0.7	234
Total	0.57	0.9	16	25.91	1.8	1,514	26.48	1.8	1,530	16.82	1.0	550

1. Bulletin Underground includes reserves from the Essex, Creek Shear and Lennon underground mining areas
2. Calculations have been rounded to the nearest 10,000 t of ore, 0.1 g/t Au grade and 1,000 oz. Au metal
3. See ASX announcement 31 October 2018 for further information

# Gold Resources - as at 30 June 2018

Mining Centre	OPEN PIT RESOURCES											
	Measured			Indicated			Inferred			Total 100%		
	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au
Matilda <sup>1</sup>	0.1	1.14	4	7.0	1.44	323	3.6	1.30	151	10.7	1.39	477
Wiluna <sup>2</sup>	-	-	-	15.4	2.38	1,181	3.1	3.21	324	18.6	2.52	1,505
Williamson <sup>3</sup>	-	-	-	4.1	1.68	219	1.6	1.58	79	5.6	1.65	298
Regent	-	-	-	0.7	2.71	61	3.1	2.11	210	3.8	2.22	271
Tailings	-	-	-	34.0	0.62	680	-	-	-	34.0	0.62	680
Stockpiles	-	-	-	0.5	0.84	15	-	-	-	0.5	0.84	15
OP Total	0.1	1.14	4	61.7	1.25	2,479	11.4	2.08	763	73.2	1.38	3,246
Mining Centre	UNDERGROUND RESOURCES											
	Measured			Indicated			Inferred			Total 100%		
	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au	Mt	g/t Au	Koz Au
Matilda <sup>1</sup>	-	-	-	0.1	2.51	10	0.5	3.66	61	0.6	3.44	71
Wiluna <sup>2</sup>	-	-	-	8.0	5.37	1,376	13.5	4.33	1,885	21.5	4.72	3,262
Williamson <sup>3</sup>	-	-	-	-	-	-	0.3	2.61	23	0.3	2.61	23
Golden Age <sup>4</sup>	0.02	6.80	4	0.1	7.66	24	0.5	3.77	63	0.6	4.46	91
Galaxy <sup>5</sup>	-	-	-	0.1	3.70	6	0.2	2.80	16	0.2	2.98	22
UG Total	0.0	6.80	4	8.3	5.31	1,416	15.0	4.24	2,049	23.3	4.63	3,469
Grand Total	0.1	2.12	8	70.0	1.73	3,895	26.4	3.31	2,812	96.5	2.16	6,715

Mineral Resource estimates are not precise calculations, being dependent on the interpretation of limited information on the location shape and continuity of the occurrence and on the available sampling results. The figures in the Table above are rounded to two significant figures to reflect the relative uncertainty of the estimate.

See ASX announcement 13 September 2018 for further information

# Disclaimers & Important Information

## Forward-Looking Statements

This presentation includes certain statements that may be deemed ‘forward-looking statements’. All statements that refer to any future production, resources or reserves, exploration results and events or production that Blackham Resources Ltd (‘Blackham’ or ‘the Company’) expects to occur are forward-looking statements. Although the Company believes that the expectations in those forward-looking statements are based upon reasonable assumptions, such statements are not a guarantee of future performance and actual results or developments may differ materially from the outcomes. This may be due to several factors, including market prices, exploration and exploitation success, and the continued availability of capital and financing, plus general economic, market or business conditions. Investors are cautioned that any such statements are not guarantees of future performance, and actual results or performance may differ materially from those projected in the forward-looking statements. The Company does not assume any obligation to update or revise its forward-looking statements, whether as a result of new information, future events or otherwise.

## Competent Person Statements

The information contained in the report that relates to Exploration Targets and Exploration Results at the Matilda-Wiluna Gold Operation (“Operation”) is based on information compiled or reviewed by Mr Cain Fogarty, who is a full-time employee of the Company. Mr Cain Fogarty is a Member of the Australian Institute of Geoscientists and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which is 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’. Mr Fogarty has given consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The information contained in the report that relates to all other Mineral Resources is based on information compiled or reviewed by Mr Marcus Osiejak, who is a full-time employee of the Company. Mr Osiejak, is a Member of the Australian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which is 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’. Mr Osiejak has given consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.

With regard to the Matilda-Wiluna Gold Operation Mineral Resources, the Company is not aware of any new information or data that materially affects the information included in this report and that all material assumptions and parameters underpinning Mineral Resource Estimates as reported in the market announcements dated 13th September 2018 continue to apply and have not materially changed.

# Disclaimers & Important Information (cont.)

The information contained in the report that relates to Ore Reserves for the Bulletin, Creek Shear, Essex and East-West underground mines at the Wiluna Gold Mine is based on information compiled or reviewed by Matthew Keenan. Mr Keenan confirmed that he has read and understood the requirements of the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012 JORC Edition). He is a Competent Person as defined by the JORC Code 2012 Edition, having more than five years' experience which is relevant to the style of mineralisation and type of deposit described in the Report, and to the activity for which he is accepting responsibility. Mr Keenan is a Member of The Australasian Institute of Mining and Metallurgy, has reviewed the Report to which this consent statement applies and is a full time employee working for Entech Pty Ltd having been engaged by Blackham Resources Ltd to prepare the documentation for the Matilda Gold Project on which the Report is based, for the period ended 30 June 2018. He disclosed to the reporting company the full nature of the relationship between himself and the company, including any issue that could be perceived by investors as a conflict of interest. Mr Keenan verifies that the Report is based on and fairly and accurately reflects in the form and context in which it appears, the information in his supporting documentation relating to Ore Reserves.

The information contained in the report that relates to Ore Reserves for the Open Pits at the Matilda-Wiluna Gold Operation is based on information compiled or reviewed by Simon Hewson. Mr Hewson confirmed that he has read and understood the requirements of the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012 JORC Edition). He is a Competent Person as defined by the JORC Code 2012 Edition, having more than five years' experience which is relevant to the style of mineralisation and type of deposit described in the Report, and to the activity for which he is accepting responsibility. Mr Hewson is a Member of The Australasian Institute of Mining and Metallurgy, has reviewed the Report to which this consent statement applies and is a full-time employee of Blackham Resources Limited and having prepared the documentation for the Matilda/Wiluna Gold Project on which the Report is based, for the period ended 30 June 2018. He has disclosed to the reporting company the full nature of the relationship between himself and the company, including any issue that could be perceived by investors as a conflict of interest. Mr Hewson verifies that the Report is based on and fairly and accurately reflects in the form and context in which it appears, the information in his supporting documentation relating to Ore Reserves.

The information contained in the report that relates to Ore Reserves for Wiluna Tailings at the Matilda-Wiluna Gold Operation is based on information compiled or reviewed by Daryl Evans. Mr Evans confirmed that he has read and understood the requirements of the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012 JORC Edition). He is a Competent Person as defined by the JORC Code 2012 Edition, having more than five years' experience which is relevant to the style of mineralisation and type of deposit described in the Report, and to the activity for which he is accepting responsibility. Mr Evans is a Fellow of The Australasian Institute of Mining and Metallurgy, has reviewed the Report to which this consent statement applies and is a full time employee working for Independent Metallurgical Operations Pty Ltd having been engaged by Blackham Resources Ltd to prepare/review the documentation for the Matilda/Wiluna Gold Project on which the Report is based, for the period ended 30 June 2018. He disclosed to the reporting company the full nature of the relationship between himself and the company, including any issue that could be perceived by investors as a conflict of interest. Mr Evans verifies that the Report is based on and fairly and accurately reflects in the form and context in which it appears, the information in his supporting documentation relating to Ore Reserves.

With regard to the Matilda-Wiluna Gold Operation Production Targets, the Company is not aware of any new information or data that materially affects the information included in this report and that all material assumptions and parameters underpinning Production Targets as reported in the market announcements dated 28th February 2019 continue to apply and have not materially changed.