

HERON RESOURCES LIMITED AN AUSTRALIAN ZINC-COPPER PRODUCER

NOOSA MINING & EXPLORATION CONFERENCE

JULY 18, 2019

AGENDA ASX: HRR

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- MARKET
 - ► ZINC FUNDAMENTALS
- ASSET
 - ▶ WOODLAWN ZINC-COPPER PROJECT | PATH TO PRODUCTION
- ► FOCUS
 - ► OPERATIONAL READINESS | HYDRO MINING | UNDERGROUND MINING | PROCESS PLANT | OFF-SITE LOGISTICS

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- ► EXPLORATION STRATEGY | IN-MINE EXPLORATION | REGIONAL EXPLORATION
- ► APPENDICES
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Compliance Statement (JORC 2012)

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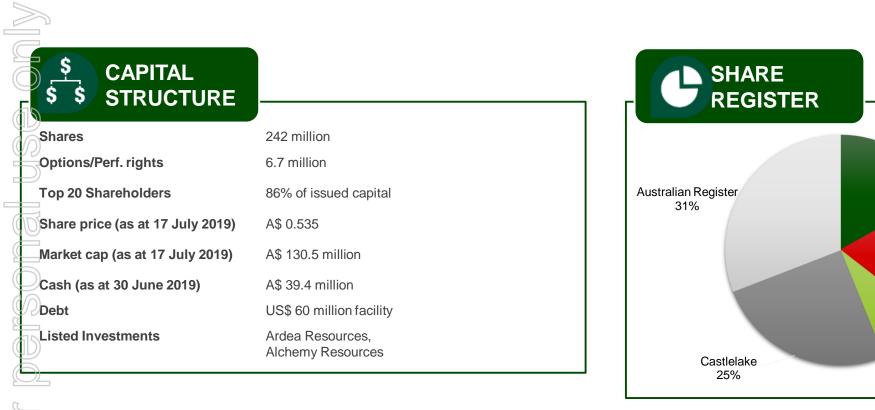
The technical information in this release relating to the exploration results and forward program at the Woodlawn Project is based on information compiled by Mr David von Perger, who is a Member of the Australian Institute of Mining and Metallurgy (Chartered Professional – Geology). Mr von Perger is a full time employee of Heron Resources Limited and has sufficient experience, which is relevant to the style of mineralization and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the JORC Code (2012 edition). Mr von Perger has reviewed and approved the technical information this presentation.

An Exploration Target is term used within the JORC 2012 Code for an estimate of the exploration potential of a mineral deposit, however the potential quantity and grade is conceptual in nature and there is insufficient information to estimate a Mineral Resource and it remains uncertain if further exploration will result in the estimation of a Mineral Resource.

The zinc equivalent (ZnEq) calculation takes into account, mining costs, milling costs, recoveries, payability (including transport and refining charges) and metal prices in generating a Zinc equivalent value for Au, Ag, Cu, Pb and Zn. $ZnEq = Zn\%+Cu\%^*3.12+Pb\%^*0.81+*Au$ g/t*0.86+Ag g/t*0.03. Metal prices used in the calculation are: Zn US\$2,300/t, Pb US\$ 2,050/t, Cu US\$6,600/t, Au US\$1,250/oz and Ag US\$18/oz. These metal prices are based on Heron's long term view on average metal prices. It is Heron's view that all the metals within this formula are expected to be recovered and sold. Metallurgical metal recoveries used for the formula are: 88% Zn, 70% Pb, 70% Cu, 33% Au and 82% Ag; these are based on historical recoveries at Woodlawn and supported by metallurgical test work undertaken during the 2015-16 feasibility study.

HERON RESOURCES OVERVIEW

Company snapshot



Orion

17%

Greenstone

Affiliates

8%

Greenstone

19%

HERON RESOURCES TEAM

Experienced Board & Management team



Stephen Dennis Chairman (Non-Executive)



Mark Sawyer Director (Non-Executive)



Wayne Taylor Managing Director & CEO



Ricardo De Armas Director (Non-Executive)

BOARD



Borden Putnam III Director (Non-Executive)



Fiona Robertson Director (Non-Executive)



Director (Non-Executive)



Brian Hearne General Manager, Woodlawn Mine



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MANAG

Simon Smith General Manager, Finance & Company Secretary



David von Perger General Manager, Exploration & Geology

Andrew Lawry

Chief Operating Officer



Charlie Kempson General Manager, Strategy & Business Development



Ian Pattison

Peter Rozenauers

Director (Non-Executive)

HERON RESOURCES INVESTMENT PROPOSITION

An Australian Zinc-Copper Producer



TODAY – STRONG FUNDAMENTALS

- Quality high-grade zinc and copper asset
- Production in ramp-up
- Sound commodity market fundamentals
- Supportive community & shareholder base
- Committed & experienced team

MARKET ZINC

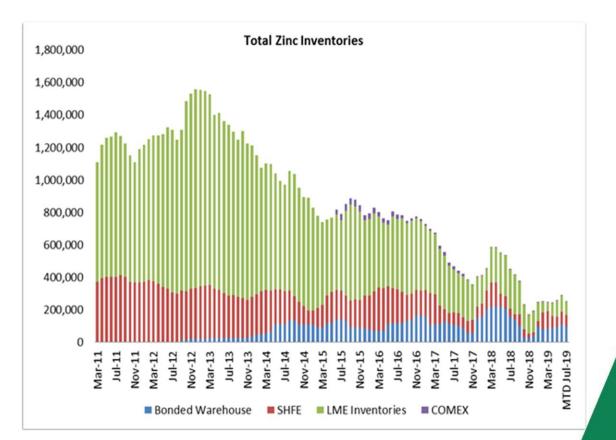
Strong Fundamentals – Short Term Tight Market To Continue

- Market Commentators
 - Current smelter bottleneck resulting in continued refined metal deficits¹
 - The gap between demand and supply for global zinc is expected to progressively move into surplus in 2022²
 - Concern over potential impacts from the macro economic backdrop continue – impacts both supply and demand

Stocks

OGISONAI

- 252kt (LME, SHFE, Bonded, COMEX)
- 6.1 days consumption (<10 days is considered tight)



Source: Scotia Daily Mining Scoop 12 July 20198

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Teck Resources Limited 2019 RBC Capital Markets Global Mining & Materials Conference.

2. Mining Technology, Global zinc market to grow at 3.8% in 2022, 1 February 2019, https://www.mining-technology.com/comment/zinc-outlook-2019/

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ASSET WOODLAWN ZINC-COPPER PROJECT

Key Project Physicals – 2016 Feasibility Study (FS)

- ► 1.5Mtpa Production Rate
 - Split campaign hard rock from underground operations or tailings reclaim.
- 9.3 year LOM (Reserves only)
 - Significant potential for upside
- Reserves
 - Underground 2.8Mt @ 14% ZnEq¹
 - Reclaimed Tailings 9.5Mt @ 6% ZnEq¹
- Steady State Gross Production
 - 40ktpa Zn (88Mlbs)
 - ► 10ktpa Cu (20Mlbs)
 - 12ktpa Pb (25Mlbs)
 - ► +Ag/+Au



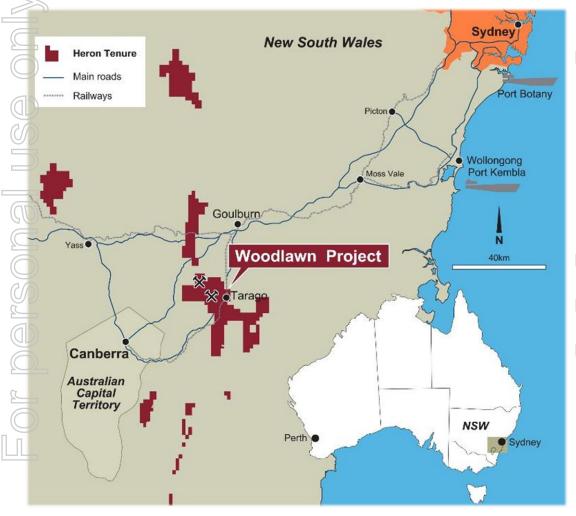
^{1.} Refer to slide 3 for ZnEq definition and slides ii and iii for Reserves table

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ASSET WOODLAWN ZINC-COPPER PROJECT

Premier location in favorable jurisdiction with existing infrastructure – cost effective solutions

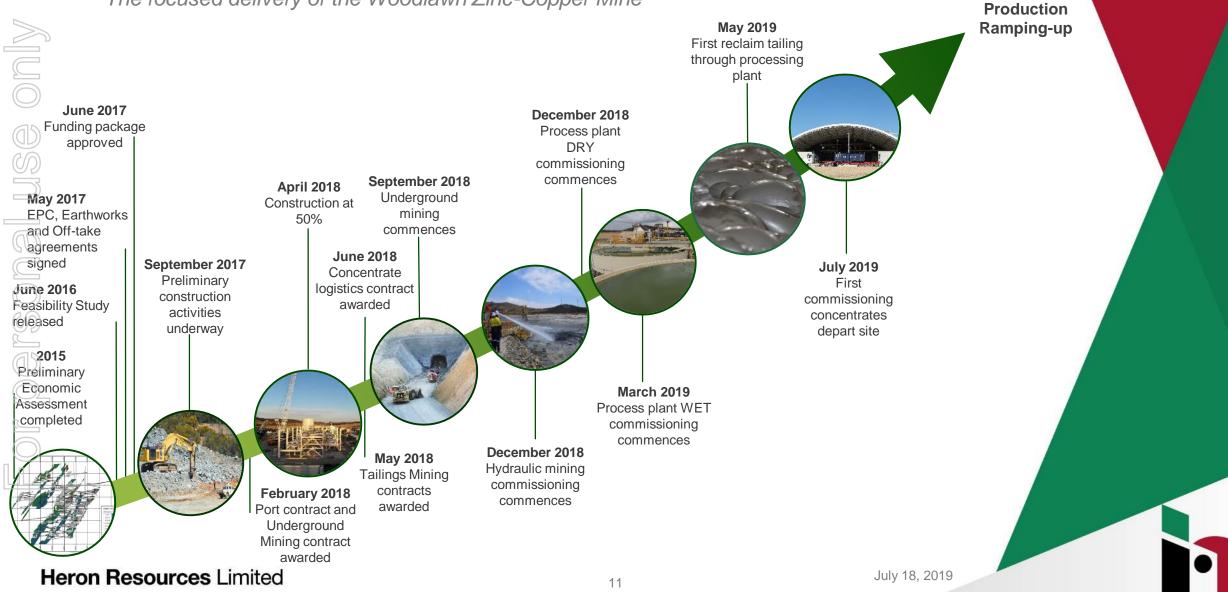


- Transport Base metal concentrates to Port Botany and Port Kembla via existing road-rail infrastructure:
 - ► Roads sealed B-double rated
 - Rail Goulburn rail yard (approx. 50km)
 - Intermodal solution is highly attractive
 - Power NSW State grid sub-station
- Water Willaroo Bore Field
- Population Centres skilled labour and community infrastructure

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ASSET PATH TO PRODUCTION

The focused delivery of the Woodlawn Zinc-Copper Mine



FOCUS OPERATIONAL READINESS

In production ramp-up



- Hydraulic mining in production mode. Grades in line with Reserves
- DRY, WET and load commissioning of retreatment circuit complete
- Stockpiling of ore from underground delivered to ROM - commissioning material ready to treat
- Plant operation commenced
 6 May ramping up
 throughput
- Commissioning concentrates produced
- Off site logistics underway for product delivery

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FOCUS HYDRO MINING

Operational and in production

D S N

For personal

- Hydraulic mining circuit fully operational and in production
- ✓ Optimising performance achieved 4,332t (5 July 2019) equates to 1.6Mtpa run rate
- ✓ Excellent flow densities and excavation control





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FOCUS UNDERGROUND MINING

Operations on track and to schedule

- Underground development in line with schedule
- 2.3km of underground development completed

A UO

personal use

- Steady recent trend of above plan monthly advance continues
- First ore from underground delivered to run-of-mine (ROM) pad (G2 lens)
- Primary ventilation & second means of egress well advanced
- Paste plant commissioning mid-July 2019



FOCUS PROCESS PLANT

Ramping-up

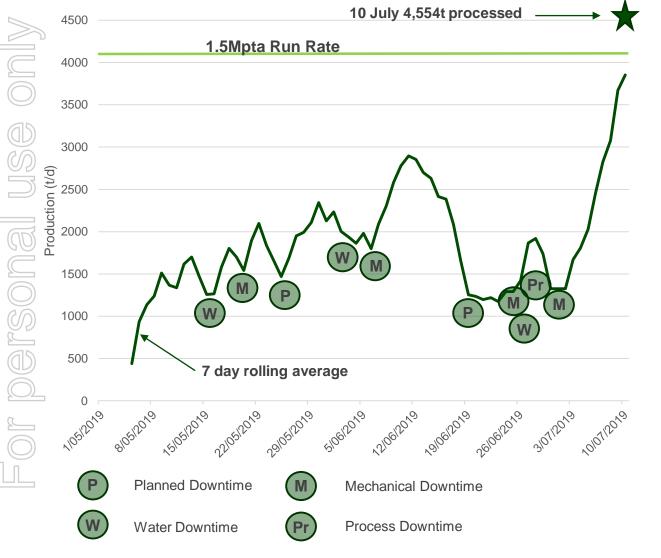


- Plant feed commenced on reclaimed tailings 6 May 2019
- Initial attention on mechanical performance and reliability – pumps, valves, motors, pipes
- Throughput ramp-up design (190t/hr) achieved 10 July 2019
- ✓ Full shift zinc concentrate production >55% Zn achieved 9 July 2019
- ✓ Commissioning of UG only component (crushing & ball mill) to commence mid-July 2019



FOCUS PROCESS PLANT

Production Ramp-up Progress



THE EARLY STAGES OF RAMP-UP

- New Plant critical to prove process plant capability
 - Mechanical reliability
 - Electrical reliability
 - Process flow integration
 - Feed stock
 - Water
 - Reagents
- First commissioning concentrate production – lower grade
 - Options sales, blending, reprocessing

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FOCUS OFF-SITE LOGISTICS

First zinc concentrates departed site 10 July 2019

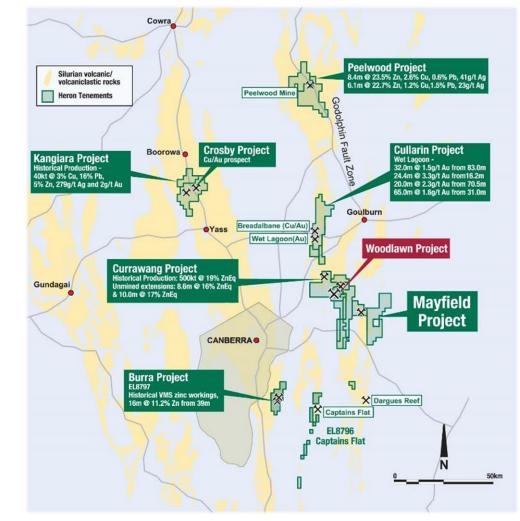


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GROWTH EXPLORATION STRATEGY

Committed to exploration of in-mine and regional targets to extend mine life



9.3 YEAR MINE LIFE (RESERVES ONLY)

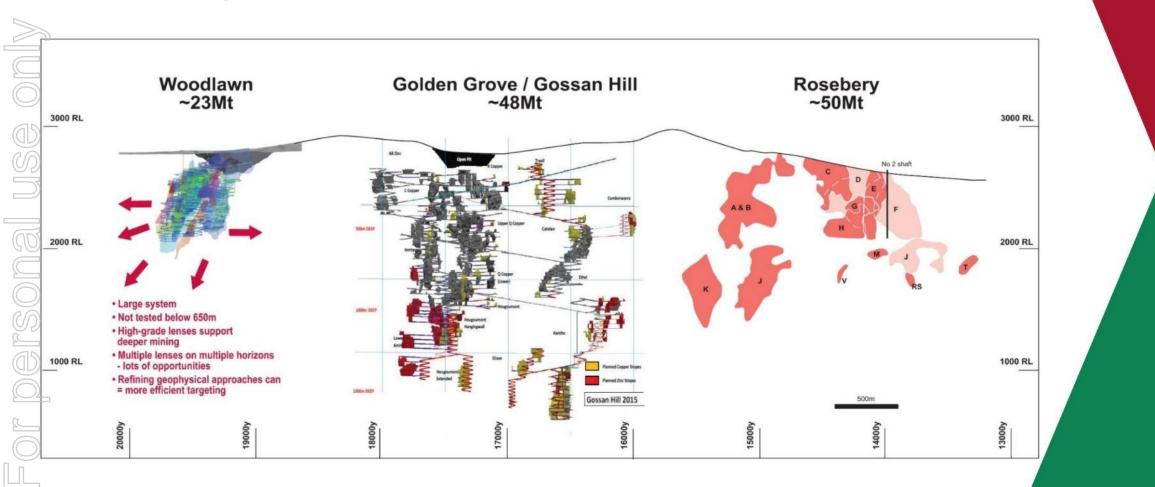
Prioritised mine life extension opportunities:

- 1. Convert UG Resources
 - 2.8Mt P+P Reserves from 7.2Mt M+I+I Resources¹
- 2. Extensions to existing VMS lenses
- New discoveries in-mine (4 of 14 lenses discovered after mining ceased)
- 4. Near mine deposits & prospects
- 5. Regional deposits & prospects
 - Dominant Regional Position
 - Tenure of 1,200km²
 - Coverage of VMS host rocks
 - Acquiring 'forgotten' projects

¹ Refer to Slide 27 for detailed breakdown

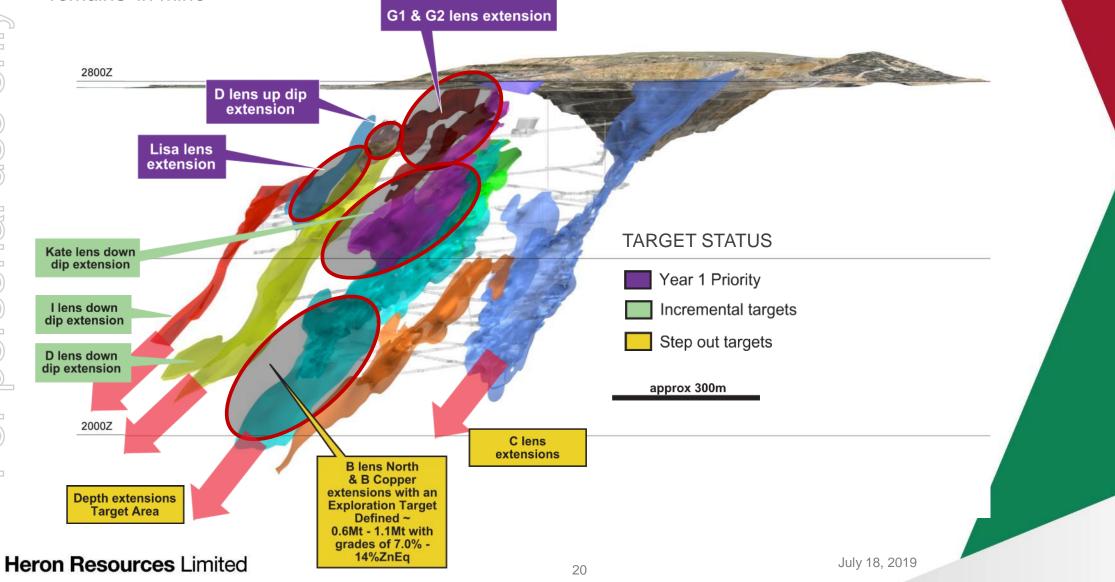
GROWTH WOODLAWN IN-MINE EXPLORATION

Limited Testing – Comparison with more extensively tested Australian VMS deposits.



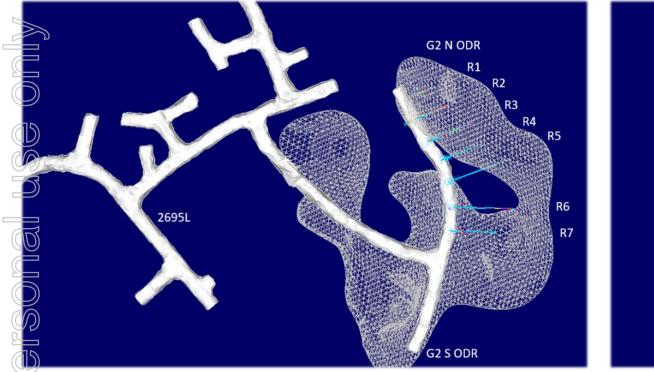
GROWTH WOODLAWN IN-MINE EXPLORATION

Targeted additions to the mine plan with immediate value-add – significant untapped potential remains 'in-mine'



GROWTH WOODLAWN IN-MINE EXPLORATION

Upper level potential



Ring R3 - Widening of model and flattening (ZnEq grades shown)



Underground diamond drill program scheduled to start Q3 2019 targeting G, H and Kate lens extensions

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Plan G2 lens surface

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WNSL0010

GROWTH WOODLAWN REGIONAL POTENTIAL

Woodlawn North IP Survey – March 2019

EL7257 Follow-up regional NW trend plus N strike lenses targeting beneath basalt cover SML20 **Cowley Hills** Murphy's trend targeting broad magnetic high WOODLAWN NORTH suggesting basalts IP TARGET at depth = higher heat flow. Strong geochem in soils and drilling MURPHY'S IP TARGET ED1 kilometres Woodlawn Lenses Striking N and plunging NW

TARGET: WOODLAWN REPEATS NORTH OF EXISTING MINE ON GRANTED MINING LEASE

- 1970s surveys good Induced Polarisation (IP) response
- Historical survey limited to ~150m depth. Modern surveys good to 700-800m depth (optimal conditions)
- IP measures broad patterns of conductivity also chargeability which measures disseminated sulphides
- Supporting evidence of mineralisation - surface geochem and limited shallow historical drilling
- Survey completed on 200-400m spaced lines
- Significant anomalies detected

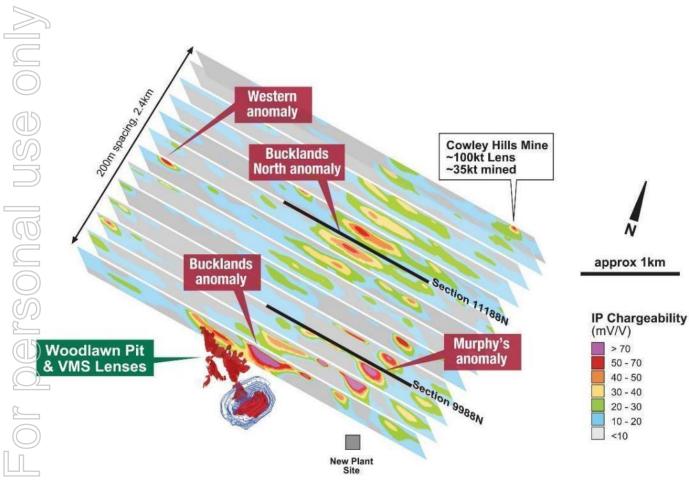
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GROWTH WOODLAWN REGIONAL POTENTIAL

Woodlawn North IP Survey – March 2019



RESULTS –

- A number of significant anomalies
- Chargeability response indicative of sulphide content of the rock
- Murphy's target drill tested and intersected a graphitic shale in proximity to the anomaly
- Bucklands North target drill tested and returned a zone of moderate sericite, carbonate, pyrite/pyrrhotite alteration near centre of the anomaly with some quartz veining – possible near miss and DHEM to be conducted
- Bucklands target currently being drilled, early strong alteration

SUMMARY HERON RESOURCES

An Australian Zinc-Copper Producer



Today – Str

TODAY – STRONG FUNDAMENTALS

- Quality high-grade zinc and copper asset
- Production in ramp-up
- Sound commodity market fundamentals
- Supportive community & shareholder base
- Committed & experienced team

NEXT PHASE - KEY GROWTH DRIVERS

- Nameplate production
- Cash flow positive
- Closure on Sedgman dispute
- In-mine exploration to expand LOM
- Highly prospective tenement package











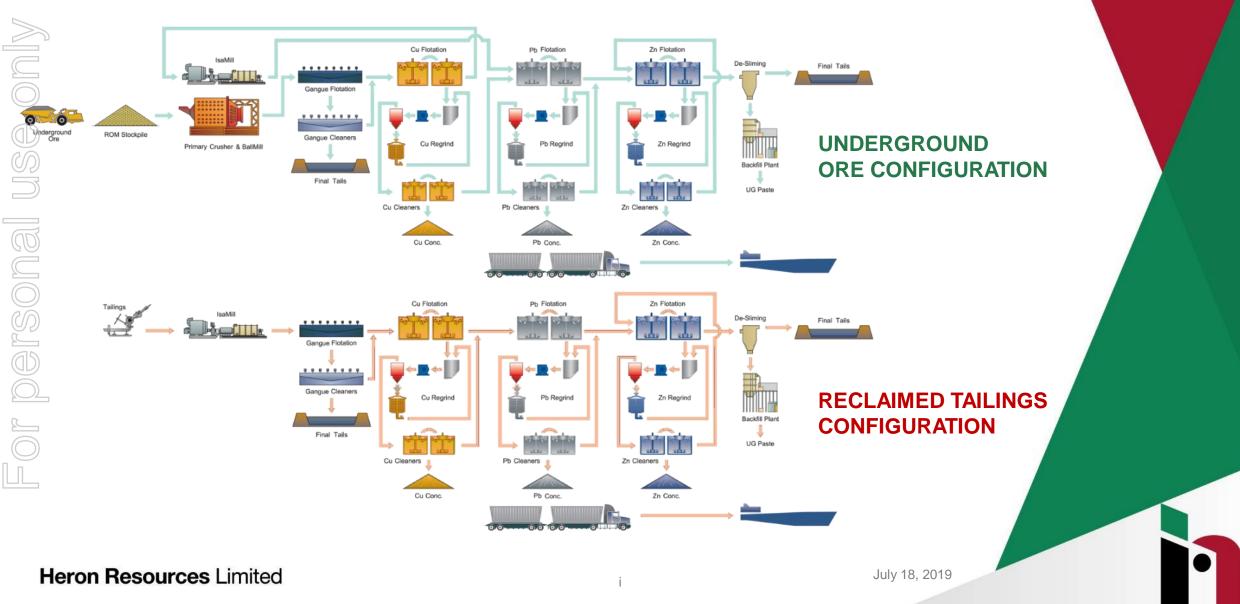
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FOCUS PROCESS PLANT

Two ore sources (underground and tailings) reduce risk and increase operational flexibility.



UNDERGROUND – MINERAL RESOURCES AND ORE RESERVES

Woodlawn Total Underground Mineral Resource 2017 (ASX Release 13 Nov 2017) (7% ZnEq cog for Polymetallic and 1% Cu cog for Copper)

Indicated + Measured Mineral Resource

		Tonnes Mt	ZnEq %	Zn %	Cu %	Pb %	Au g/t	Ag g/t
Polymetallic	Ind+Mea	2.7	21.6	10.9	1.5	4.0	0.7	79
Copper	Ind+Mea	1.9	9.7	0.7	2.6	0.1	0.2	14
Combined	Ind+Mea	4.6	16.7	6.7	1.9	2.4	0.5	52
lineral Resourc	e							
		Tonnes Mt	ZnEq %	Zn %	Cu %	Pb %	Au g/t	Ag g/t
Polymetallic	Inf	1.9	16.9	7.3	1.5	3.0	0.8	61
Copper	Inf	0.7	9.2	0.7	2.5	0.1	0.2	12
Combined	Inf	2.6	14.9	5.6	1.8	2.2	0.6	48
eral Resource								
		Tonnes Mt	ZnEq %	Zn %	Cu %	Pb %	Au g/t	Ag g/t
Polymetallic	Ind+Mea+Inf	4.6	19.7	9.4	1.5	3.6	0.7	71.6
Copper	Ind+Mea+Inf	2.6	9.6	0.7	2.6	0.1	0.2	13.5
Combined	Ind+Mea+Inf	7.2	16.0	6.3	1.9	2.3	0.5	50.6
	Copper Combined lineral Resource Polymetallic Copper Combined eral Resource Polymetallic Copper	Copper Ind+Mea Combined Ind+Mea Indext Ind+Mea Imeral Resource Inf Polymetallic Inf Combined Inf Combined Inf Polymetallic Inf Polymetallic Inf Polymetallic Inf Polymetallic Ind+Mea+Inf Copper Ind+Mea+Inf	PolymetallicInd+Mea2.7CopperInd+Mea1.9CombinedInd+Mea4.6Ineral ResourceTonnes MtPolymetallicInf1.9CopperInf0.7CombinedInf2.6Pral ResourceTonnes MtPolymetallicInf2.6	Polymetallic Ind+Mea 2.7 21.6 Copper Ind+Mea 1.9 9.7 Combined Ind+Mea 4.6 16.7 Imeral Resource Tonnes Mt ZnEq % Polymetallic Inf 1.9 9.7 Combined Ind+Mea 4.6 16.7 Imeral Resource Tonnes Mt ZnEq % Polymetallic Inf 1.9 16.9 Copper Inf 2.6 14.9 Peral Resource Tonnes Mt ZnEq % Polymetallic Ind+Mea+Inf 4.6 19.7 Copper Ind+Mea+Inf 2.6 9.6	Polymetallic Ind+Mea 2.7 21.6 10.9 Copper Ind+Mea 1.9 9.7 0.7 Combined Ind+Mea 4.6 16.7 6.7 Imeral Resource Tonnes Mt ZnEq % Zn % Polymetallic Inf 1.9 16.9 7.3 Copper Inf 0.7 9.2 0.7 Copper Inf 1.9 16.9 7.3 Copper Inf 0.7 9.2 0.7 Combined Inf 2.6 14.9 5.6 Polymetallic Inf 2.6 19.7 9.4 Polymetallic Ind+Mea+Inf 4.6 19.7 9.4 Copper Ind+Mea+Inf 2.6 9.6 0.7	Polymetallic Ind+Mea 2.7 21.6 10.9 1.5 Copper Ind+Mea 1.9 9.7 0.7 2.6 Combined Ind+Mea 4.6 16.7 6.7 1.9 Imeral Resource Tonnes Mt ZnEq % Zn % Cu % Polymetallic Inf 1.9 16.9 7.3 1.5 Copper Inf 0.7 9.2 0.7 2.5 Combined Inf 2.6 14.9 5.6 1.8 Polymetallic Inf 2.6 14.9 5.6 1.8 Polymetallic Ind+Mea+Inf 4.6 19.7 9.4 1.5 Copper Ind+Mea+Inf 2.6 9.6 0.7 2.6	Polymetallic Ind+Mea 2.7 21.6 10.9 1.5 4.0 Copper Ind+Mea 1.9 9.7 0.7 2.6 0.1 Combined Ind+Mea 4.6 16.7 6.7 1.9 2.4 Imeral Resource Tonnes Mt ZnEq % Zn % Cu % Pb % Polymetallic Inf 1.9 16.9 7.3 1.5 3.0 Copper Inf 2.6 14.9 5.6 1.8 2.2 Polymetallic Inf 2.6 14.9 5.6 1.8 2.2 Polymetallic Inf 2.6 14.9 5.6 1.8 2.2 Pradematication Inf 2.6 14.9 5.6 1.8 2.2 Pradematication Inf 2.6 14.9 5.6 1.8 2.2 Pradematication Ind+Mea+Inf 4.6 19.7 9.4 1.5 3.6 Opper Ind+Mea+Inf 2.6 9.6	Polymetallic Ind+Mea 2.7 21.6 10.9 1.5 4.0 0.7 Copper Ind+Mea 1.9 9.7 0.7 2.6 0.1 0.2 Combined Ind+Mea 4.6 16.7 6.7 1.9 2.4 0.5 Imeral Resource Tonnes Mt ZnEq % Zn % Cu % Pb % Au g/t Polymetallic Inf 1.9 16.9 7.3 1.5 3.0 0.8 Copper Inf 0.7 9.2 0.7 2.5 0.1 0.2 Combined Inf 1.9 16.9 7.3 1.5 3.0 0.8 Copper Inf 0.7 9.2 0.7 2.5 0.1 0.2 Combined Inf 2.6 14.9 5.6 1.8 2.2 0.6 eral Resource Tonnes Mt ZnEq % Zn % Cu % Pb % Au g/t Polymetallic Ind+Mea+Inf 4.6 19.

Woodlawn Underground Mineral Reserve Estimate 2016

Туре	Reserve Category	Quantity (Mt)	ZnEq(%)	Zn(%)	Cu(%)	Pb(%)	Au(g/t)	Ag(g/t)
Polymetallic	Proven	0						
Polymetallic	Probable	1.8	16	8.1	1.2	2.9	0.56	57
Copper	Proven	0						
Copper	Probable	0.96	8.8	0.61	2.4	0.13	0.23	14
Total	Probable	2.8	14	5.5	1.6	1.9	0.45	42

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TAILINGS – MINERAL RESOURCES AND RESERVES

Mineral Resource Estimate - Woodlawn Retreatment Project (2016)

	Grades									
Resource Category	Quantity	ZnEq (%)	Zn	Cu	Pb	Au	Ag			
	(Mt)		(%)	(%)	(%)	(g/t)	(g/t)			
(
Measured	d + Indicated I	lineral Resour	ces							
2 North Dam	2.7	6.0	2.40	0.42	1.30	0.27	34			
🔿 South Dam	3.3	6.0	2.50	0.46	1.20	0.25	27			
West Dam	3.8	6.5	2.0	0.62	1.40	0.40	35			
Total Mea+ Ind	9.8	6.2	2.30	0.51	1.3	0.31	32			
Inferred I	Mineral Resou	rces								
North Dam	0.2	6.2	2.40	0.42	1.30	0.27	34			
South Dam	0.9	5.6	2.30	0.48	1.20	0.25	24			
🤍 West Dam	0.0	-	-	-	-	-	-			
Total Inferred	1.1	5.8	2.30	0.47	1.20	0.25	27			
Total Mea+Ind+Inf	10.9	6.2	2.30	0.51	1.29	0.30	32			

Woodlawn Tailings Mineral Reserve Estimate 2016

Reported with no cut-off grade applied

Reserve Category	Quantity (Mt)	ZnEq(%)	Zn(%)	Cu(%)	Pb(%)	Au(g/t)	Ag(g/t)
Proven	6.4	6.0	2.2	0.5	1.3	0.29	31
Probable	3.2	6.0	2.1	0.5	1.3	0.33	32
Total (Proven + Probable)	9.5	6.0	2.2	0.5	1.3	0.31	31



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