

# A near-term producer in Australia with a margin highly leveraged to the Silver Price

Corporate Presentation

International Mining and Resources Conference (IMARC)

October 2024

ASX: BML



[boabmetals.com](https://boabmetals.com)  
Delivering metals for a sustainable future

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The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the ‘JORC Code’) sets out minimum standards, recommendations and guidelines for Public Reporting in Australasia of Exploration Results, Mineral Resources and Ore Reserves.

Information included in this presentation relating to Exploration Results has been extracted from the ASX Announcements titled “Keep confirmed as a Target for Further Exploration” dated 22 October 2024, “Amended Drilling Announcement” dated 4 September 2023”, “Assays Confirm Further Positive Outcome for Sorby” dated 23 January 2023, “High-Grade Lead-Silver Confirmed at Beta Deposit” dated 1 February 2022 available to view at [www.boabmetals.com.au](http://www.boabmetals.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in these announcements. The Company confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the form in which they were first presented.

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Information included in this presentation relating to Ore Reserves, Production Targets and Financial Forecasts has been extracted from the Sorby Hills Definitive Feasibility Study and FEED Study dated 19 January 2023 and 6 June 2024 respectively, available to view at [www.boabmetals.com.au](http://www.boabmetals.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the Ore Reserve Statement and that all material assumptions and technical parameters underpinning the estimates, production targets and financial forecasts 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 Ore Reserves Statement.



# Boab Metals Corporate Summary

## Capital Structure (24 October 2024)

### Share Price

A\$0.15 /share

### Debt

Nil

### Shares on Issue

234 million shares

### Cash

A\$4.4 million<sup>1</sup>  
30 September 2024

### Market Cap

A\$35 million

### Performance Rights

7,600,000

## Top 4 Shareholders

#	Holder Name	24 October 2024
1	Villiers Queensland PL	7.85%
2	Citicorp Nominees Pty Limited	4.25%
3	Zero Nominees Pty Ltd	4.11%
4	Acuity Capital Investment	3.33%

1. \$4.8m At the market (ATM) Facility available for use at the company's absolute discretion

## Share Price History



- **ASX-listed base and precious metals** developer and explorer.
- Board & Management team with a **proven track record in development.**
- **Advancing toward Final Investment Decision** on Sorby Hills.
- **Top 20 shareholders hold 36% of issued capital.**



# Sorby Hills Project

## A near term producer of Lead & Silver

### Investment Highlights

- Located 50km northeast of Kununurra, Western Australia and **150km by existing sealed roads to the Wyndham Port.**
- **High quality 47.3Mt Mineral Resource<sup>1</sup>**
  - 1.5Mt contained Lead at 3.1%
  - 0.2Mt contained Zinc at 0.4%
  - **53Moz contained Silver at 35 g/t**
- **Production target of 18.3Mt** underpinned by **83% Reserves**
- **Significant** near mine and greenfields **exploration upside**
- **Conventional open pit mining** and **flotation process plant** producing a **high-grade Lead-Silver concentrate**
- **Feasibility Studies Complete**
- **Process Plant Front End Engineering & Design complete**
- **Offtake nearing completion**
- **Engagement with Financiers ongoing**
- **Project advancing toward a Final Investment Decision**



Figure: Location of the Sorby Hills Project

1. See Slide 5 for Resource breakdown



# Sorby Hills Project

## High Quality Resource Estimate

Deposit	Tonnes (Mt)	Pb %	Grade			Contained Metal		
			Zn %	Ag g/t	PbEq <sup>1</sup> %	Pb kt	Zn kt	Ag koz
<b>A</b>	0.6	5.3%	0.1%	23	6.1%	31	6	427
<b>B</b>	2.7	3.6%	0.3%	20	4.3%	97	8	1,720
<b>Omega</b>	17.2	3.3%	0.4%	34	4.5%	566	71	18,948
<b>Norton</b>	21.1	2.8%	0.4%	34	4.0%	590	96	24,090
<b>Alpha</b>	1.5	3.1%	0.9%	64	5.3%	45	13	2,975
<b>Beta</b>	4.2	3.6%	0.4%	43	5.1%	151	17	5,856
<b>Measured</b>	<b>12.6</b>	<b>3.5%</b>	<b>0.4%</b>	<b>43</b>	<b>5.0%</b>	<b>444</b>	<b>45</b>	<b>17,521</b>
<b>Indicated</b>	<b>11.0</b>	<b>3.4%</b>	<b>0.4%</b>	<b>34</b>	<b>4.6%</b>	<b>377</b>	<b>46</b>	<b>12,114</b>
<b>Inferred</b>	<b>23.6</b>	<b>2.7%</b>	<b>0.5%</b>	<b>31</b>	<b>3.8%</b>	<b>645</b>	<b>117</b>	<b>23,406</b>
<b>Total</b>	<b>47.3</b>	<b>3.1%</b>	<b>0.4%</b>	<b>35</b>	<b>4.3%</b>	<b>1,465</b>	<b>207</b>	<b>53,042</b>

See ASX announcement 17 December 2021

1. See Appendix for Lead & Silver Equivalent calculation method

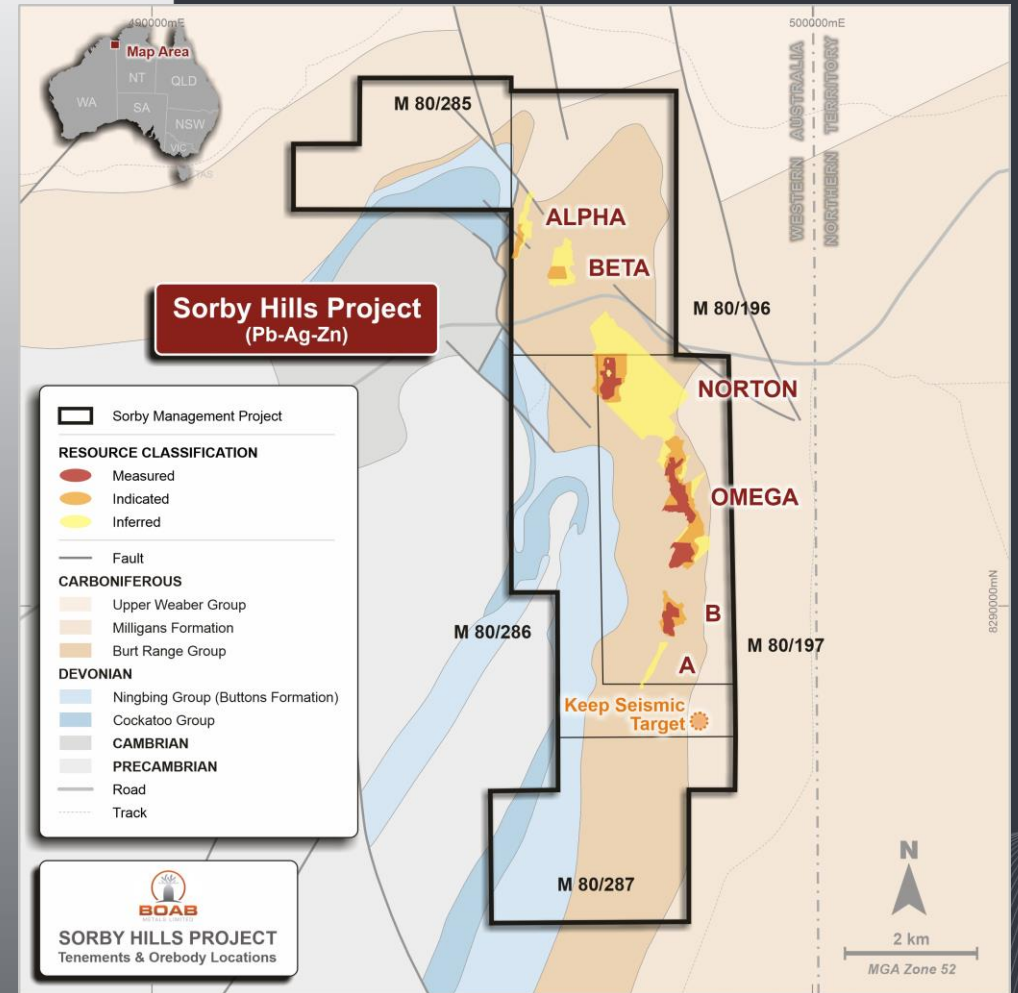


Figure: Location of the Sorby Hills Resources

**A different perspective - 47.3Mt @ 123g/t Silver Equivalent**



# Sorby Hills Project

## FEED Study completed June 2024

### FEED Study Highlights

**A\$264m pre-production Capex**  
underpinned 75%  
by tendered  
pricing

**C1 cash cost**  
**US\$0.36/lb payable Pb**  
Incl. net Silver credit of  
US\$0.37/lb payable Pb

**Average Annual Production**  
103kt Lead-Silver concentrate  
64kt Lead and 2.0Moz Silver

**2.25Mtpa**  
8.5 Year  
Mine Life

**NPV<sub>8</sub> A\$411m**  
**IRR 37%**  
Strong pre-tax  
economics

**A\$1.1bn** Operating Cash Flow

**A\$126m p.a.** Average EBITDA

### Lead

546 thousand payable tonnes  
A\$1,803 Million Revenue



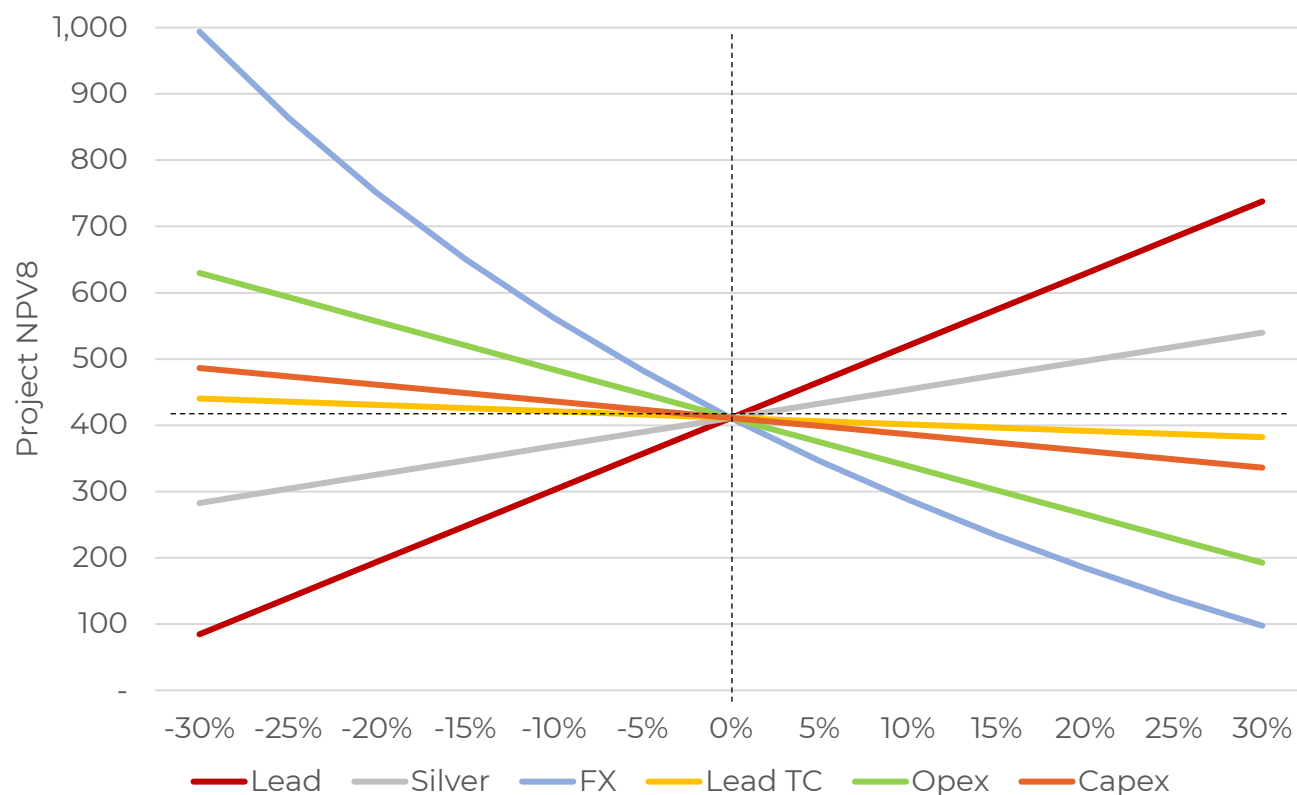
### Silver

17.2 million payable ounces  
A\$693 Million Revenue

1. See Appendix for Revenue Assumptions
2. See Appendix for Annual Physical and Cash flow summary together with Capital and Operating Cost breakdowns

# Sorby Hills Project

## Project Sensitivities



FEED Study Macroeconomic Assumptions  
Pb: US\$2,252/t, Ag: US\$27.4/oz, FX: 0.68, Lead TC: US\$125/t

## Macroeconomics

As at 24 October 2024

- Lead: US\$2,017/t
- Silver: US\$34/oz
- FX: 0.66 AUD:USD
- Spot Lead TC: US\$30/t

**NPV<sub>8</sub> = A\$523m**

Source  
London Metal Exchange  
ABC Bullion  
[www.xe.com](http://www.xe.com)  
Fastmarkets

# Sorby Hills Project

## Development Ready

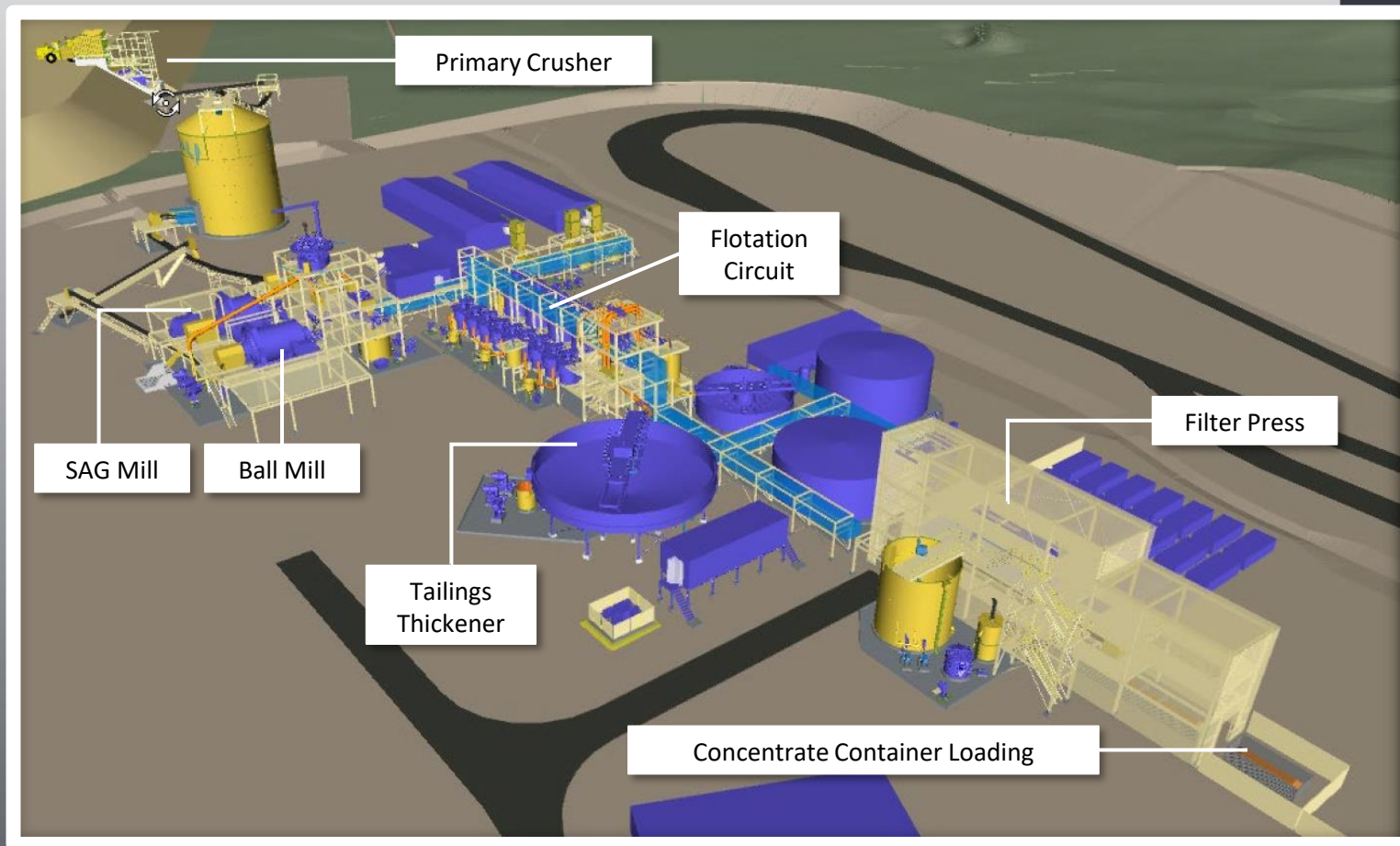


Figure: 3D Model of the Sorby Hills Process Plant produce by GRES during FEED.

- GRES has recently completed **FEED Workstreams**.
- FEED output has resulted in:
  - **detailed plant design and; optimised site layout; and**
  - **updated EPC pricing consistent with EPC pricing adopted in the DFS.**
- Options to reduce costs have been identified by GRES.
- Preliminary due diligence indicates the **DeGrussa process plant currently for sale is ideally suited to Sorby Hills.**



# Sorby Hills Project

## Boab option to acquire 100% Interest

### Terms of the Agreement (See ASX Announcement 23 September 2024)

- **12-month option for Boab to acquire Yuguang's 25% interest in Sorby Hills**, increasing Boab's current 75% interest in Sorby Hills to 100%.
- During the option period, Boab will carry Yuguang's joint venture expenses and in turn, will have **full control over joint venture budgets and work programs**.
- **Should the option be exercised, Boab will pay Yuguang:**
  - **Tranche 1: A\$12.5M** upon exercise of the option and the concurrent acquisition of Yuguang's 25% Joint Venture interest;
  - **Tranche 2: A\$5.5M** payable within 12 months from the commencement of concentrate production at Sorby Hills; and
  - **Tranche 3: A\$5.0M** payable within 18 months from the commencement of concentrate production at Sorby Hills.
- The ability to exercise the option is subject to Boab reaching a Final Investment Decision (FID) on the Sorby Hills Project by September 2025.

### Importantly, the option agreement:

- **requires no immediate payment to Yuguang** and allows for the Tranche 1 payment to be met with funds raised at FID; and
- **provides a new basis on which to engage potential Offtakers and Financiers**

+218kt Concentrate  
+137kt Payable Lead  
+4.3Moz Payable Silver  
**+A\$103M NPV**

Attributable to Boab based on  
the Sorby Hills FEED Study

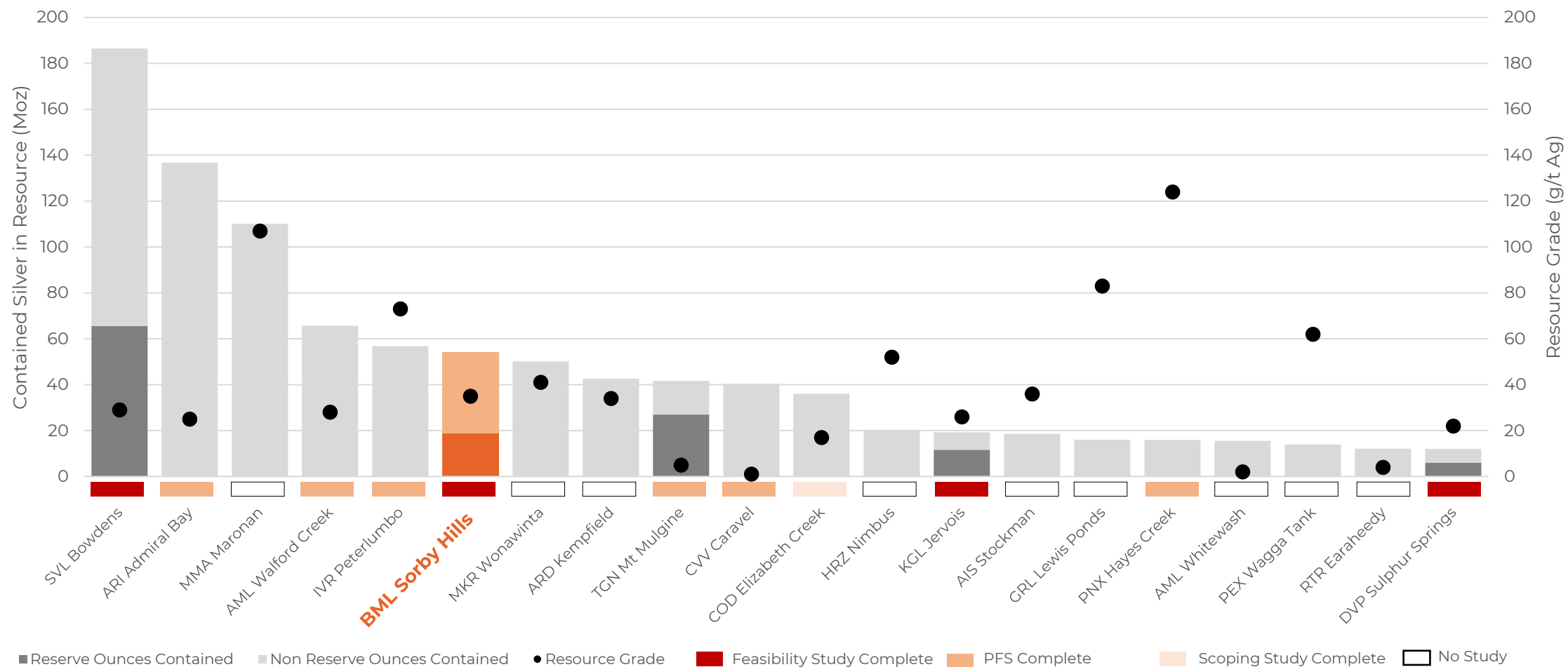
ASX Release 6 June 2024



# Sorby Hills Project

## 53Moz - A significant Silver Resource

Comparison of contained Silver in undeveloped Australian Silver deposits as at 23 October 2024

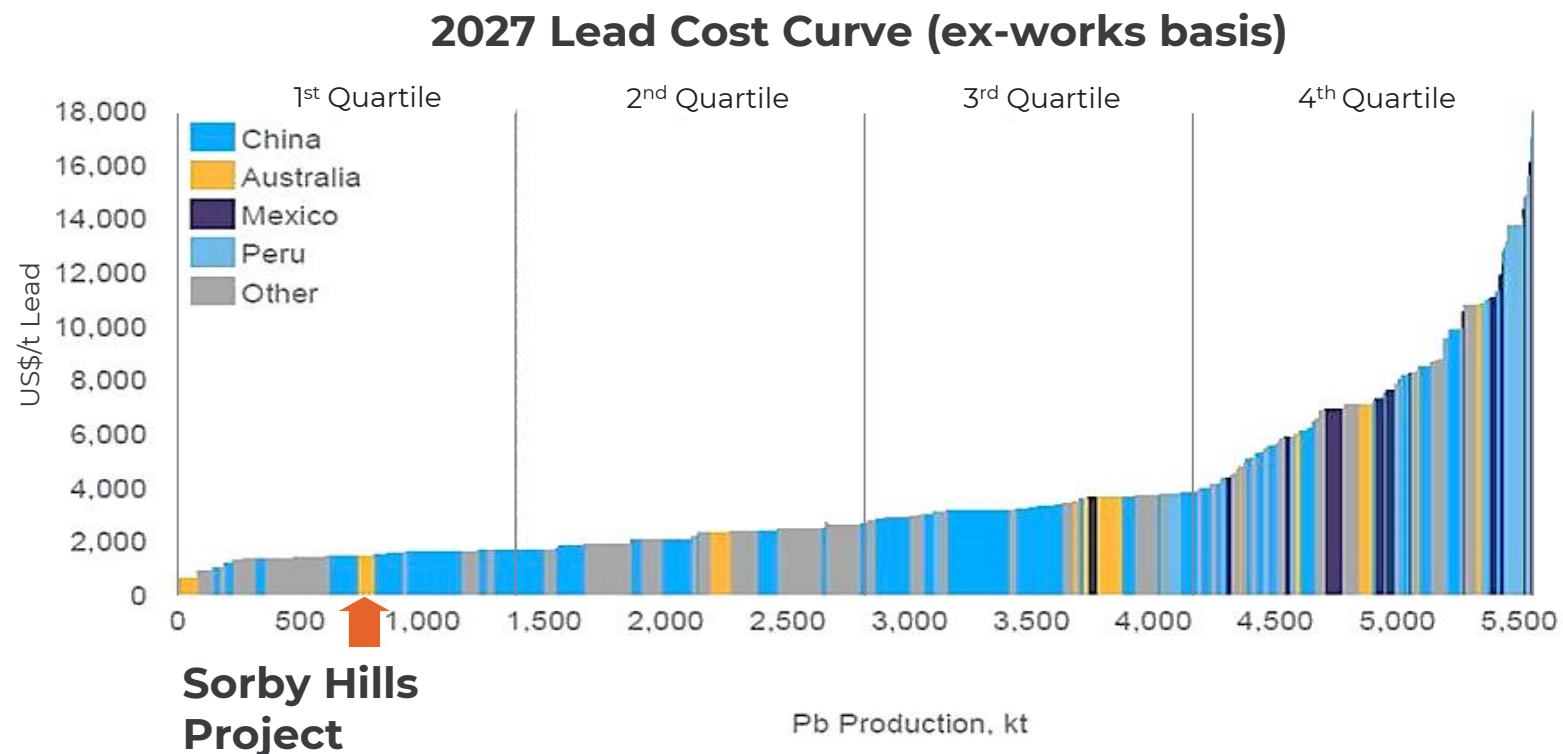


See Appendix 1 for underlying peer data

# Sorby Hills Project

## Confirmed Low-Cost producer

Independently confirmed as a 1<sup>st</sup> Quartile Project on the Global Lead cost curve



- Low risk open cut mining and high process plant throughput drives low operating cost relative to global peers.

CRU, Independent Market Consultant Report for Boab Metals' Sorby Hills Pb-Ag Project (Sept 2023).

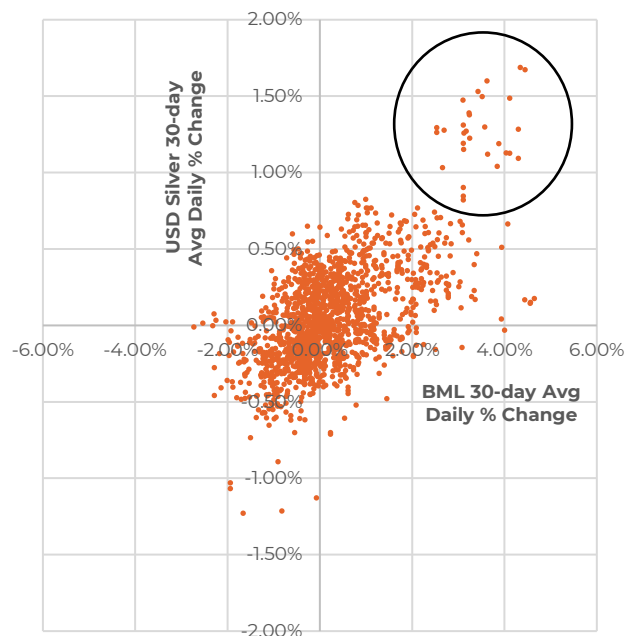
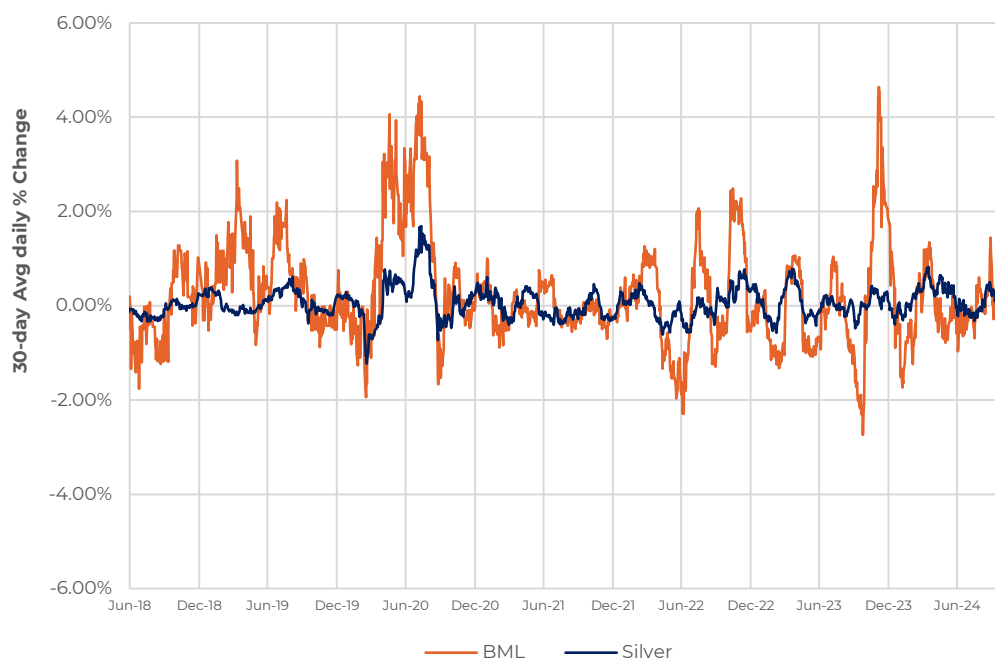


# Sorby Hills Project

## Delivering Silver Exposure to Investors

The Sorby Hills Project and Boab Metals offer rare ASX exposure to Silver Price movements

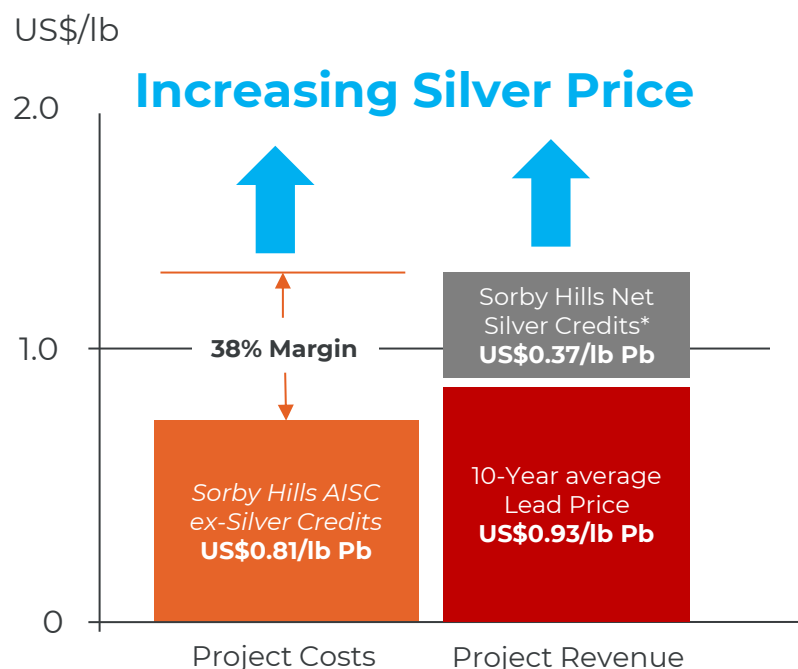
Rolling 30-day average daily % changes in USD Silver price & BML share price since June 2018



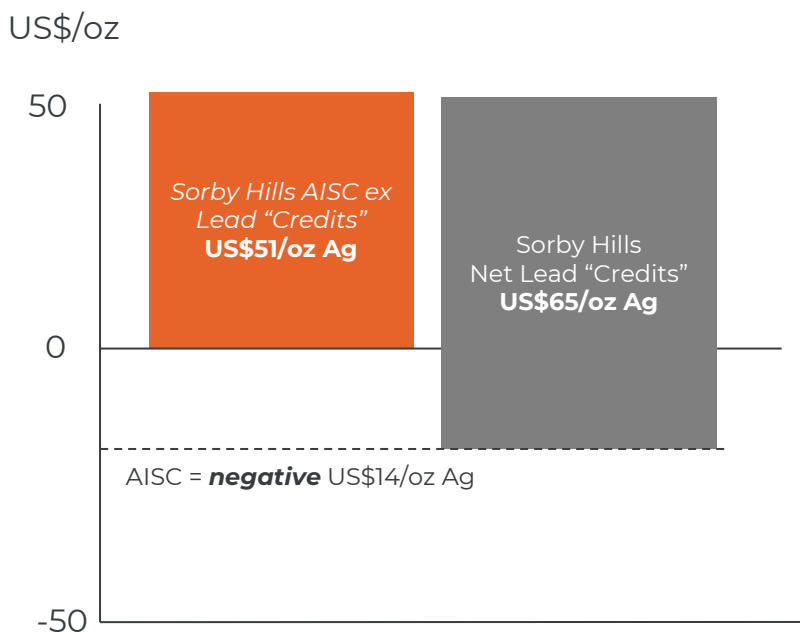
- Since the acquisition of the Sorby Hills Project in June 2018, Boab's share price has exhibited a strong correlation with movements in the price of Silver.
- In particular, significant positive movements in Silver price correspond to significant positive movements in the Boab share price

# Sorby Hills Project Exposure to Silver Price

Operating Costs covered by a historically non-volatile Lead Price leaves the Operating margin fully leveraged to Silver price movements.



**Sorby Hills Project Costs are more than covered by the 10-year average<sup>1</sup> Lead Price**



**Sorby Hills – A low-cost Silver Producer?**

Viewed differently, the Sorby Hills Project may be considered a low-cost silver producer

**AISC = negative US\$14/oz Ag**

\*Based on FEED Study Price of US\$27/oz Ag

<sup>1</sup>As at 5 August 2024

AISC = All in Sustaining Cost or "Breakeven" cost

# Silver

## The most conductive metal on earth

Strong demand for use in solar cells and the electronic components of electric vehicles



- Silver's traditional role as a **storer of wealth** is complemented by its **increasing industrial demand**.
- The use of **Silver in solar cells has increased nearly 150%** (8.3% CAGR) to 127Moz over the past 10 years<sup>1</sup>.
- Sorby Hills and Boab Metals offers **rare ASX exposure to Silver metal demand**.

1. [www.silverinstitute.org/silver-supply-demand/](http://www.silverinstitute.org/silver-supply-demand/)

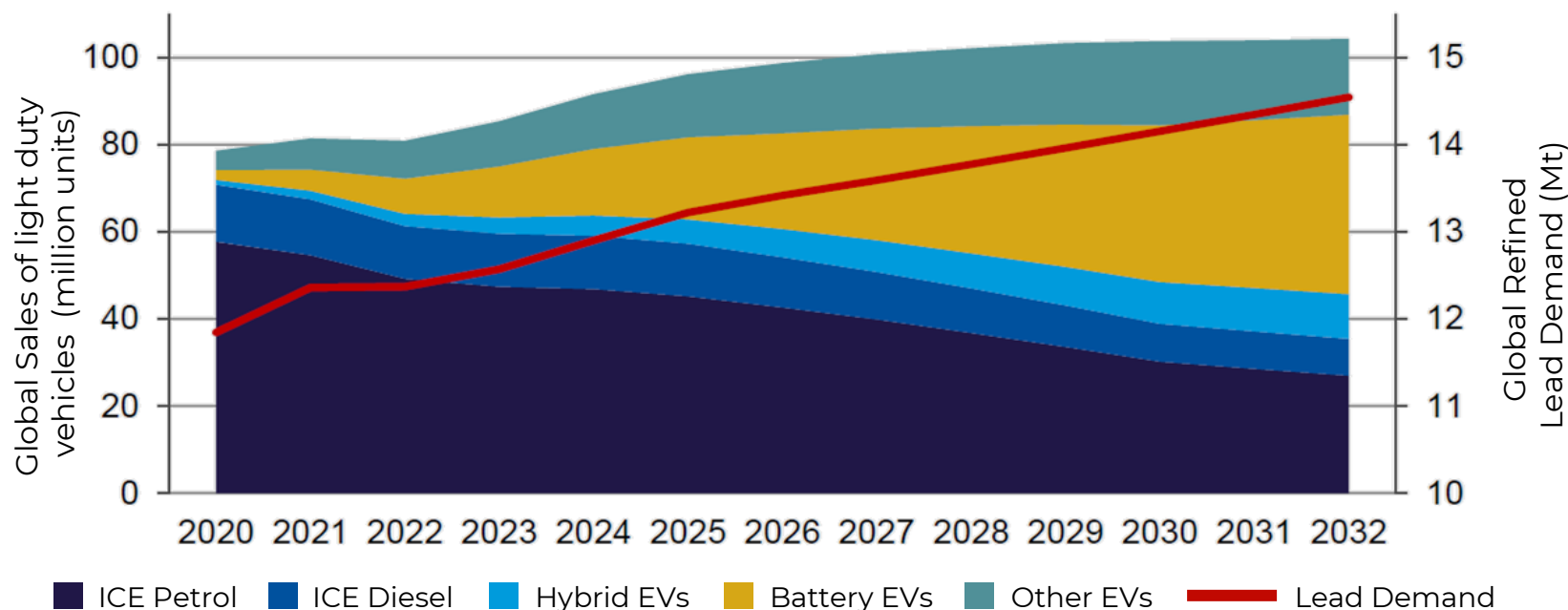


# Sorby Hills Project

## Supplying the proven Battery Metal

Lead demand growth underpinned by mature and emerging vehicle technologies

Forecast Light Vehicles Sales versus Lead Demand<sup>1</sup>



“... low voltage 12V lead-based batteries will continue to be used for starter and auxiliary functions in most internal combustion engine vehicles (ICE) and new electric vehicles<sup>1</sup> ....”

1. CRU, Independent Market Consultant Report for Boab Metals' Sorby Hills Pb-Ag Project (Sept 2023)

Source: Bloomberg 29 November 2023

# Sorby Hills Project

## Significant Intercepts post MRE 2021

### Phase V – 15 holes not yet included in Mineral Resource Estimate

- **SHRC\_123 (Beta): 27m @ 3.47% Pb & 37g/t Ag from 34m:**
  - Incl. 3m @ 7.04% Pb & 95g/t Ag from 35m; 5m @ 5.60% Pb & 44g/t Ag from 45m; and 6m @ 4.50% Pb & 49g/t Ag from 55m.
- **SHRC\_124 (Beta): 17m @ 3.51% Pb & 46g/t Ag from 49m:**
  - Incl. 8m @ 6.93% Pb & 90g/t Ag from 57m.
- **SHRC\_129 (Wildcat): 6m @ 5.37% Pb & 21g/t Ag from 12m down hole.**

### Phase VI – 28 holes not yet included in mineral Resource Estimate

- **SHRC\_157 (Beta): 7m @ 19.17% PbEq, (16.23% Pb & 82g/t Ag) from 72m**
  - Incl. 3m @ 41.38% PbEq, (35.26% Pb & 174g/t Ag) from 72m.
- **SHRC\_136 (Beta): 20m @ 7.39% PbEq, (5.58% Pb & 52g/t Ag) from 65m**
  - Incl. 8m @ 13.86% PbEq, (10.49% Pb & 96g/t Ag) from 77m.
- **SHRC\_151 (Beta): 5m @ 5.13% PbEq, (3.70% Pb & 41g/t Ag) from 45m.**
- **SHRC\_149 (Norton): 2m @ 16.64% PbEq, (10.92% Pb & 163g/t Ag) from 103m**
- **SHRC\_147 (Norton): 11m @ 5.74% PbEq, (3.84% Pb & 54g/t Ag) from 86m.**
- **SHRC\_143 (Norton): 13m @ 4.06% PbEq, (2.82% Pb & 35g/t Ag) from 95m.**

### Phase VII – 21 holes not yet included in Mineral Resource Estimate

- **SHSD\_171 (Norton): 11m @ 17.63% PbEq (10.98% Pb & 189 g/t Ag) from 82m**
- **SHSD\_174 (Norton): 11.6m @ 20.23% PbEq (8.78%Pb & 325 g/t Ag) from 74m**
- **SHSD\_164 (Norton): : 6m @ 9.92% PbEq (3.92% Pb & 170g/t Ag) from 101m**

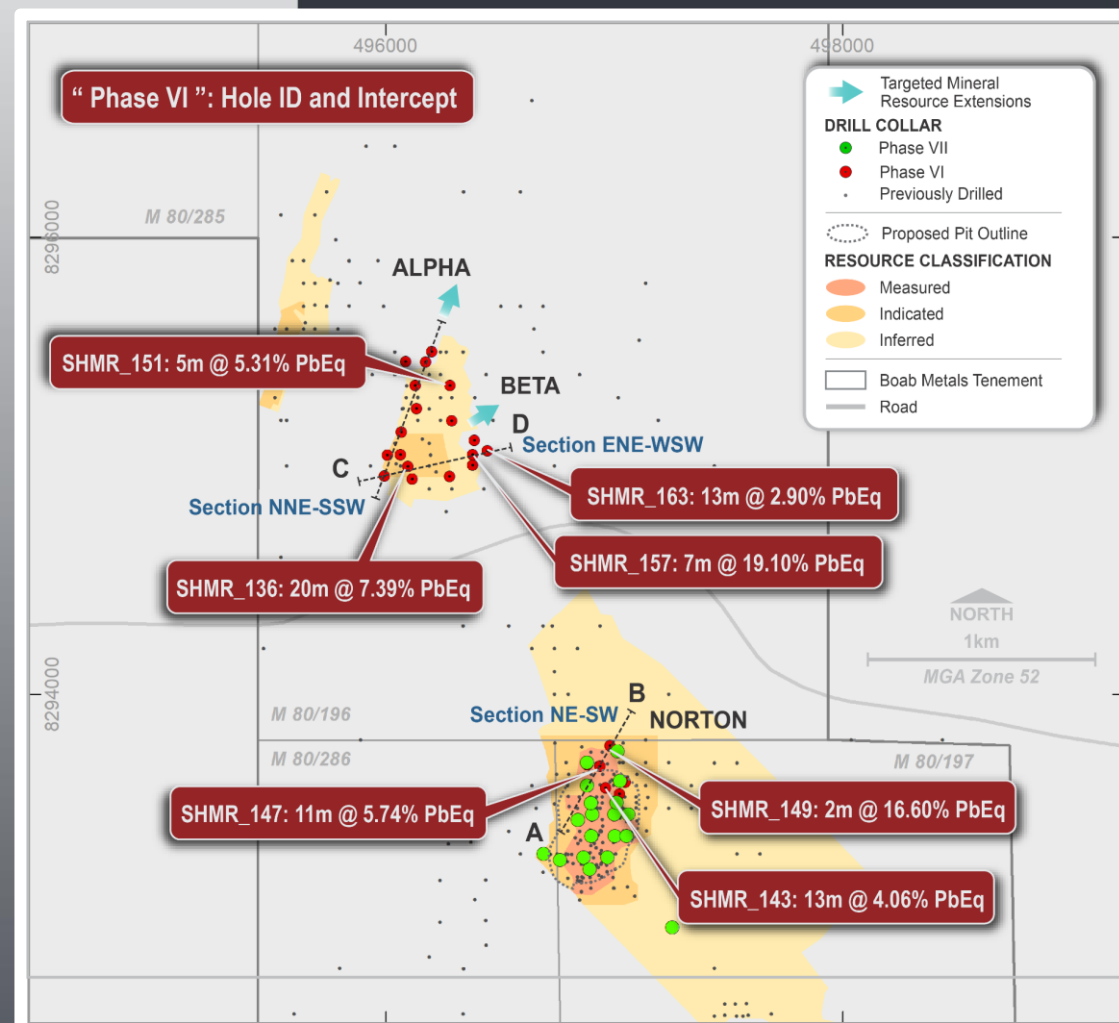


Figure: Location of drill holes not yet included in the Sorby Hills Mineral Resource

# Sorby Hills Project

## Strategic Growth Opportunities

**Vision to establish a long-life presence in the east Kimberley Region**

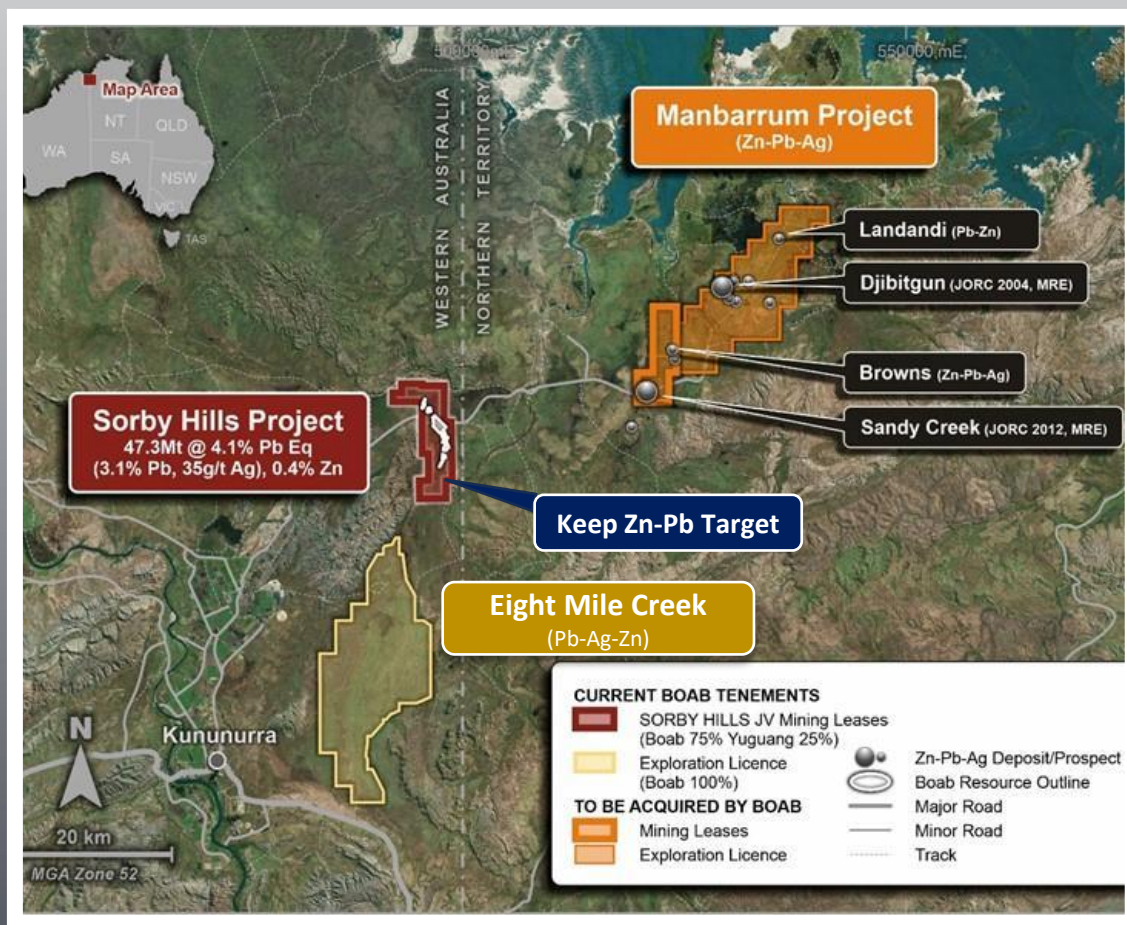


Figure:  
Location of the  
Manbarrum  
Project, Eight  
Mile Creek  
Project and  
Keep n-Pb  
Target relative  
to Sorby Hills.

### Manbarrum Zn-Pb-Ag Project

- located 25km east of the Sorby Hills Project.
- 175km<sup>2</sup> of prospective tenements (including two granted mining leases) covering **geology related to that found at Sorby Hills.**
- Mineral Resources declared at two prospects which are zinc and silver dominated.**
- Conceptual open pit mining studies completed by CSA Global in 2018.**

### Keep Zinc Lead Target

- New Zinc-Lead mineralisation recently discovered via greenfield exploration within the existing Sorby Hills mining leases
- Ore grade intercepts include:
  - SHSD\_185: 9.55 m @ 5.10% PbEq (2.59% Pb & 2.26% Zn) and 17.6 g/t Ag from 242.55 m
  - SHSD\_189: 2.00 m @ 7.73% PbEq (1.23% Pb & 5.86% Zn) and 36.7 g/t Ag from 303.0 m

### Eight Mile Creek Project

- 30km of along-strike geology, **highly prospective for deposits similar to Sorby Hills.**
- The exploration **success based on seismic data at the Keep Zinc-Lead Target** has opened the door for more bold exploration at Eight Mile Creek.



# Boab Metals Investment Opportunity

▲ **11% - FEED vs DFS NPV**

*Based on the same macroeconomic assumptions*

**Past 12 Months**

▲ **111% - Boab Share Price<sup>1</sup>**

▼ **25% - Median ASX Materials<sup>2</sup>**

▼ **1% - Lead Price<sup>1</sup>**

▲ **49% - Silver Price<sup>1</sup>**

1. Bloomberg: 25 October 2023 – 24 October 2024

2. [www.marketindex.com.au](http://www.marketindex.com.au) 24 October 2024

## Near Term News Flow and Ongoing Activities

- Execute **Offtake Agreement(s)**.
- **Assessing opportunities to further de-risk project execution and development timelines**
- **Boab working closely GR Engineering Services (“GRES”) to assess the potential economic benefit of incorporating the DeGrussa process plant into the Sorby Hills Project**
- **Progress approvals** EPA 45c amendment, Works Approvals EPBC referral.
- **Engagement with potential financiers to Secure credit approved offer(s).**
- **Reach a Final Investment Decision.**






# Thank You

 Simon Noon – Managing Director & CEO

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 [www.BoabMetals.com](http://www.BoabMetals.com)

 [www.linkedin.com/company/boab-metals](http://www.linkedin.com/company/boab-metals)







# Boab Metals

## Establishing Deep Roots within the Local Community

**Boab is extremely proud to be the Naming Rights Sponsor of the Ord Valley Muster for 2023 and beyond.**

- Sense of community plays a key role in economic and social well-being of stakeholders across the east Kimberley Region.
- The Ord Valley Muster has been a highlight of the Kimberley community calendar for 20 years.

**Boab is an enthusiastic supporter and active contributor to the Teach Learn Grow program.**

- Boab Metals has been partnering with Teach Learn Grow (TLG) since 2021 in the delivery of their Rural Program which supports one-on-one tutoring and mentorship to students in East Kimberley schools.



Images: Ord Valley Muster 2023 and Simon Noon - Managing Director/CEO with team at Teach Learn Grow, East Kimberley







# Board and Technical Team

Board and Management with a **proven track record** in exploration and development



**Gary Comb**  
Chairman

Engineer with over 30 years' experience in the Australian mining industry, with a strong track record in successfully commissioning and operating base metal mines.



**Simon Noon**  
Managing Director and CEO

Experienced mining executive with a strong background in management, capital raising and operating JV's with mid to top tier miners in a variety of commodities.



**Richard Monti**  
Non-Exec. Director

Geologist with over 30 years' experience in technical, commercial, marketing and finance within the exploration and mining industry.



**Andrew Parker**  
Non-Exec. Director

Lawyer with significant experience in the exploration and mining industry. Wealth of expertise in corporate advisory, strategic consultancy and raising capital.

## Technical Team

**Bill Darcey** – Project Manager

Mining professional with over 40 years of experience and a proven track record of successfully managing, optimising, and developing mining operations. Bill was previously Operations Manager at the Mt Garnet copper-lead-zinc operation, where he oversaw the successful start-up and management of an 800,000 TPA zinc-lead operation in China. Bill holds degrees in both mining engineering and metallurgy.

**Simon Dorling** - Exploration Manager

Geologist with more than 26 years' experience in exploration, development and the mining of base metals, precious metals, energy minerals and industrial minerals.

# Appendix



# Sorby Hills Project

## Low Risk Open Pit Ore Reserve

### FEED Study Production Target

Pit	Total (Mt)	Waste (Mt)	ROM (Mt)	Pb (%)	Ag (g/t)	PbEq (%)	Strip Ratio
Pit A	4.1	3.7	0.5	3.7	16.4	4.3%	8.1
Pit B	14.8	12.6	2.3	3.2	17.4	3.8%	5.5
Omega South	21.1	18.3	2.8	2.9	29.5	3.9%	6.5
Omega Main	57.7	50.3	7.4	3.6	38.7	5.0%	6.8
Norton	21.4	19.5	1.9	4.0	78.5	6.8%	10.0
Beta	35.6	32.2	3.4	3.3	41.5	4.8%	9.5
<b>Total Production</b>	<b>154.8</b>	<b>136.5</b>	<b>18.3</b>	<b>3.4</b>	<b>38.8</b>	<b>4.8%</b>	<b>7.5</b>

1. See Appendix for Lead Equivalent calculation method

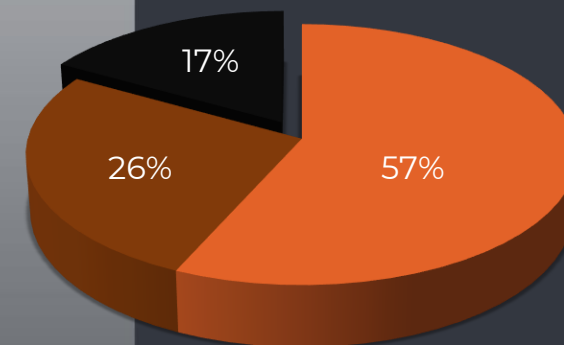
### Ore Reserve Statement

Ore Reserve Category	Ore (Mt)	Grade		Contained Metal	
		Pb (%)	Ag (g/t)	Pb (kt)	Ag (Moz)
Proved	10.4	3.5%	42	358	14.1
Probable	4.9	3.5%	32	172	5.0
<b>Total Ore Reserve</b>	<b>15.2</b>	<b>3.5%</b>	<b>39</b>	<b>531</b>	<b>19.1</b>

See ASX announcement 19 January 2023



Figure: DFS pit shells with respect to the Resource block model



Production Target underpinned 83% by Measured and Indicated Resources.

Including 95% Measured and Indicated Resources over the first 7 years of production.

■ Measured ■ Indicated ■ Inferred





# Sorby Hills Feed Study

## Life of Mine Physicals

PHYSICALS SUMMARY	Unit	Total	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
ROM Mined	Mt	18.3	-	0.4	2.1	2.3	2.4	2.5	2.3	2.0	1.1	3.0	0.3	-
Waste Mined	Mt	134.6	-	3.8	11.7	14.3	25.7	25.4	21.0	17.3	13.0	4.2	0.2	-
% Measured	%	56.7%	-	67.3%	91.7%	64.7%	72.0%	89.7%	71.8%	47.7%	16.6%	-	-	-
% Indicated	%	26.5%	-	32.7%	8.3%	35.3%	27.2%	8.9%	26.7%	49.7%	30.6%	31.1%	-	-
% Inferred	%	16.8%	-	-	-	-	0.9%	1.4%	1.5%	2.7%	52.8%	68.9%	100.0%	-
Lead Grade	%	3.4%	-	3.8%	4.1%	3.2%	3.8%	3.3%	3.1%	3.1%	3.6%	3.4%	2.9%	-
Silver Grade	g/t	39	-	24	39	28	60	50	22	27	42	41	50	-
Processed Tonnes	Mt	18.3	-	-	1.39	2.25	2.26	2.25	2.25	2.25	2.26	2.25	1.11	-
Lead Grade	%	3.4%	-	-	5.5%	3.4%	4.0%	3.5%	3.1%	3.0%	2.5%	3.5%	3.0%	-
Silver Grade	g/t	39	-	-	47	30	59	54	24	27	30	41	41	-
Lead Recovery	%	91.6%	-	-	90.9%	94.1%	90.0%	88.0%	92.7%	94.7%	93.8%	90.3%	90.3%	-
Silver Recovery	%	81.7%	-	-	87.2%	86.2%	82.2%	81.4%	86.9%	86.9%	85.7%	70.4%	70.3%	-
Concentrate Produced	kt	873	-	-	109	110	126	112	99	98	80	97	42	-
Lead Grade	%	65.8%	-	-	64.2%	65.6%	63.5%	62.4%	65.9%	66.0%	65.7%	72.2%	72.3%	-
Silver Grade	g/t	664	-	-	529	532	860	878	479	535	730	677	770	-
Payable Lead	kt	546	-	-	61	69	79	65	63	63	50	68	30	-
Payable Silver	Moz	17.2	-	-	1.5	1.7	3.2	3.0	1.4	1.5	1.8	2.0	1.0	-



# Sorby Hills Feed Study

## Life of Mine Cashflows

FINIACIAL SUMMARY	Unit	Total	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Lead Revenue	A\$M	1,803	-	-	198	225	260	215	207	208	165	226	98	1,803
Silver Revenue	A\$M	693	-	-	59	69	131	121	57	62	71	82	40	693
Total Revenue	A\$M	<b>2,496</b>	-	-	<b>257</b>	<b>295</b>	<b>392</b>	<b>337</b>	<b>264</b>	<b>269</b>	<b>236</b>	<b>308</b>	<b>138</b>	-
TR/RCs	A\$M	<b>(191)</b>	-	-	(21)	(23)	(30)	(26)	(21)	(21)	(18)	(22)	(10)	-
Royalties	A\$M	(95)	-	-	(10)	(11)	(14)	(12)	(10)	(10)	(9)	(12)	(5)	-
Net Revenue	A\$M	<b>(117)</b>	-	-	<b>(14)</b>	<b>(15)</b>	<b>(17)</b>	<b>(15)</b>	<b>(13)</b>	<b>(13)</b>	<b>(11)</b>	<b>(13)</b>	<b>(6)</b>	-
Logistics	A\$M	(547)	-	-	(51)	(62)	(94)	(93)	(81)	(71)	(54)	(36)	(4)	-
Mining	A\$M	(388)	-	-	(38)	(47)	(47)	(47)	(47)	(47)	(47)	(47)	(24)	-
Processing	A\$M	(88)	-	-	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(5)	-
G & A	A\$M	1,069	-	-	114	126	180	134	81	96	88	167	84	-
Operating Cash Flow	A\$M	<b>(117)</b>	-	-	<b>(14)</b>	<b>(15)</b>	<b>(17)</b>	<b>(15)</b>	<b>(13)</b>	<b>(13)</b>	<b>(11)</b>	<b>(13)</b>	<b>(6)</b>	-
Pre-production Capex	A\$M	(264)	(131)	(133)	-	-	-	-	-	-	-	-	-	-
Sustaining Capex	A\$M	(26)	-	-	(12)	(1)	(3)	(1)	(0)	-	-	-	(5)	(4)
Project Cash Flows	A\$M	<b>778</b>	<b>(131)</b>	<b>(133)</b>	<b>101</b>	<b>125</b>	<b>177</b>	<b>133</b>	<b>81</b>	<b>96</b>	<b>88</b>	<b>167</b>	<b>78</b>	<b>(4)</b>
NPV <sub>8</sub>	A\$M	<b>411</b>												
IRR	%	<b>37</b>												
Average EBITDA	A\$M	<b>126</b>												



# Sorby Hills FEED Study

## Capital Cost Breakdown

**Total upfront capital cost of A\$264M**  
including A\$22.7M contingency

**~66% of capital costs underpinned by tendered pricing**, including an updated Process Plant EPC pricing following the completion of Front-End Engineering & Design by GRES.

**A\$32M Owner Costs** including operational readiness items such as critical spares and owner's team

**Opportunities being explored to further reduce upfront capital costs and project implementation risk.**

Item	Pre-Production (A\$M)	Sustaining (A\$M)	Total (A\$M)
EPC Contract	134.9	-	134.9
Site Ests/ Bulk Earthworks	31.9	4.9	36.9
Water Management	8.1	11.7	19.8
Accommodation Village	11.5	-	11.5
Other Infrastructure	8.5	0.6	9.1
Owners Costs	32.0	-	32.0
Contingency	22.7	-	22.7
Pre-Production Opex	15.0	-	15.0
Closure Costs	-	9.3	9.3
<b>Total Capital Costs</b>	<b>264.5</b>	<b>26.5</b>	<b>290.9</b>





# Sorby Hills FEED Study

## Operating Cost Breakdown

Competitive **C1 cash cost of US\$0.36/lb payable Pb** (including Silver Credits).

**~80% of Mining Costs underpinned by tendered pricing.**

**Opportunity to reduce Process costs** through the optimisation of back-up power requirements.

Item	Total (A\$M)	Unit Costs	
		A\$/t ore	US\$/lb payable Pb
Logistics	117	6.4	0.07
Mining	547	30.0	0.31
Processing	388	21.3	0.22
G & A	88	4.8	0.05
Lead Treatment	160	8.8	0.09
<b>C1 Costs (ex-Credits)</b>	<b>1,300</b>	<b>71.2</b>	<b>0.74</b>
Net Silver Credits	(661)	(36.2)	(0.37)
<b>C1 Costs</b>	<b>639</b>	<b>35.0</b>	<b>0.36</b>
Royalties	95	5.2	0.05
Sustaining Capital	26	1.4	0.01
<b>AISC</b>	<b>760</b>	<b>41.6</b>	<b>0.43</b>

Unit Operating Costs based on 18.3Mt of Ore, 546kt of Payable Lead, average exchange rate of AUD:USD 0.68 and average Silver price of US\$27.4/oz.



# Sorby Hills Project

## Resource Classification by Deposit

Deposit	Classification	Tonnes (Mt)	Grade				Contained Metal		
			Pb %	Zn %	Ag g/t	PbEq <sup>1</sup> %	Pb kt	Zn kt	Ag koz
A	Inferred	0.6	5.3%	1.0%	23	6.1%	31	6	427
	<b>Sub Total</b>	<b>0.6</b>	<b>5.3%</b>	<b>0.1%</b>	<b>23</b>	<b>6.1%</b>	<b>31</b>	<b>6</b>	<b>427</b>
B	Measured	1.4	3.8%	0.3%	19	4.5%	52	4	859
	Indicated	1.3	3.4%	0.3%	21	4.1%	44	4	862
	<b>Sub Total</b>	<b>2.7</b>	<b>3.6%</b>	<b>0.3%</b>	<b>20</b>	<b>4.3%</b>	<b>97</b>	<b>8</b>	<b>1,720</b>
Omega	Measured	8.5	3.3%	0.4%	37	4.6%	279	32	9,995
	Indicated	5.8	3.5%	0.4%	34	4.7%	205	25	6,331
	Inferred	2.9	2.7%	0.4%	26	3.6%	76	13	2,414
	<b>Sub Total</b>	<b>17.2</b>	<b>3.3%</b>	<b>0.4%</b>	<b>34</b>	<b>4.5%</b>	<b>566</b>	<b>71</b>	<b>18,948</b>
Norton	Measured	2.8	4.1%	0.3%	75	6.7%	112	9	6,668
	Indicated	2.1	3.2%	0.5%	38	4.5%	68	11	2,617
	Inferred	16.2	2.5%	0.5%	27	3.4%	402	75	14,039
	<b>Sub Total</b>	<b>21.1</b>	<b>2.8%</b>	<b>0.4%</b>	<b>34</b>	<b>4.0%</b>	<b>590</b>	<b>96</b>	<b>24,090</b>
Alpha	Indicated	0.7	2.6%	0.5%	41	4.0%	18	4	923
	Inferred	0.8	3.6%	1.2%	86	6.6%	27	9	2,052
	<b>Sub Total</b>	<b>1.5</b>	<b>3.1%</b>	<b>0.9%</b>	<b>64</b>	<b>5.3%</b>	<b>45</b>	<b>13</b>	<b>2,975</b>
Beta	Indicated	1.0	4.1%	0.2%	42	5.6%	42	2	1,382
	Inferred	3.2	3.4%	0.4%	43	4.9%	109	14	4,474
	<b>Sub Total</b>	<b>4.2</b>	<b>3.6%</b>	<b>0.4%</b>	<b>43</b>	<b>5.1%</b>	<b>151</b>	<b>17</b>	<b>5,856</b>
Total Resource	Measured	12.6	3.5%	0.4%	43	5.0%	444	45	17,521
	Indicated	11.0	3.4%	0.4%	34	4.6%	377	46	12,114
	Inferred	23.6	2.7%	0.5%	31	3.8%	645	117	23,406
	<b>Total</b>	<b>47.3</b>	<b>3.1%</b>	<b>0.4%</b>	<b>35</b>	<b>4.3%</b>	<b>1,465</b>	<b>207</b>	<b>53,042</b>



# Sorby Hills Project

## Peer Comparison

(as at 23 October 2024)

Project	Primary Commodity	Ticker	Owner	Proved Reserve (Mt)	Probable Reserve (Mt)	Reserve Grade (g/t)	Measured Resource (Mt)	Indicated Resource (Mt)	Inferred Resource (Mt)	Resource Grade (g/t)	Source
Bowdens	Silver	SVL	Silver Mines Limited	29	1	68	107	50	43	29	Company Presentation – 11 September 2024
Admiral Bay	Zinc	ARI	Arika Resources Limited	-	-	-	-	-	170	25	2023 Annual Report
Maronan	Silver	MMA	Maronan Metals Limited	-	-	-	-	2	30	107	Resource Report – 12 March 2024
Walford Creek	Copper	AML	Aeon Metals Limited	-	-	-	17	28	28	28	Resource Report – 15 March 2023
Peterlumbo	Silver	IVR	Investigator Resources Limited	-	-	-	-	17	7	73	2024 Annual Report
<b>Sorby Hills</b>	<b>Lead</b>	<b>BML</b>	<b>Boab Metals Limited</b>	<b>10</b>	<b>5</b>	<b>39</b>	<b>13</b>	<b>11</b>	<b>24</b>	<b>35</b>	<b>Resource Report – 17 December 2021</b>
Wonawinta	Silver	MKR	Manuka Resources Limited	-	-	-	1	12	25	41	Resource Report – 1 April 2021
Kempfield	Silver	ARD	Argent Minerals Limited	-	-	-	-	23	16	34	2024 Annual Report
Mt Mulgine	Tungsten	TGN	Tungsten Mining NL	-	140	6	-	183	76	5	Pre-Feasibility Study - 29 January 2021
Caravel	Copper	CVV	Caravel Minerals Limited	-	-	-	-	681	574	1	Resource Report – 13 November 2023
Elizabeth Creek	Copper	COD	Coda Minerals Limited	-	-	-	-	57	9	17	Company Presentation – 3 September 2024
Nimbus	Silver	HRZ	Horizon Minerals Limited	-	-	-	4	3	5	52	Company Announcement – 28 August 2024
Jervois	Copper	KGL	KGL Resources Limited	10	1	30	4	10	9	26	2024 Annual Report
Stockman	Copper	AIS	Aeris Resources Limited	-	-	-	-	13	2	36	Company Presentation – 7 August 2024
Lewis Ponds	Zinc	GRL	Godolphin Resources Limited	-	-	-	-	-	6	83	2024 Annual Report
Hayes Creek	Zinc	PNX	PNX Metals Limited	-	-	-	-	3	1	124	2023 Annual Report
Whitewash	Molybdenum	AML	Aeon Metals Limited	-	-	-	-	185	56	2	Resource Report – 30 May 2011
Wagga Tank	Zinc	PEX	Peel Mining Limited	-	-	-	-	4	3	62	2024 Annual Report
Earaheedy	Zinc	RTR	Rumble Resources Limited	-	-	-	-	-	94	4	Company Presentation – 6 August 2024
Sulphur Springs	Copper	DVP	Develop Global Limited	-	9	21	-	15	3	22	Company Presentation – 6 September 2024

All figures have been rounded to the nearest whole number



# Metal Equivalent Calculations



The contained metal equivalence formula is based on the Sorby Hills FEED Study including:

- Lead Price US\$2,253/t; and
- Silver Price US\$27.4/oz.

## Pb Lead Equivalent Calculations

- Silver recovery of 82% (weighted average of oxide and fresh Ag recoveries); and
- Silver Payability rate of 95%.

## Ag Silver Equivalent Calculations

- Lead recovery of 91% (weighted average of oxide and fresh Pb recoveries); and
- Lead Payability rate of 95%.

It is Boab's opinion that all elements included in the metal equivalent calculation have a reasonable potential to be recovered and sold. The formula used to calculate lead equivalent grade is:

$$\text{Metal Eq (percent)} = G_{pri} + (G_{pri} \times [\sum_i R_i S_i V_i G_i] / (R_{pri} S_{pri} V_{pri} G_{pri}))$$

where **R** is the respective metallurgical metal recovery rate, **S** is the respective smelter return rate, **V** is metal price/tonne or ounce, and **G** is the metal commodity grade for the suite of potentially recoverable commodities (**i**) relative to the primary metal (**pri**).

Metal equivalents are highly dependent on the metal prices used to derive the formula. Boab notes that the metal equivalence method used above is a simplified approach. The metal prices are based on the DFS values adopted and do not reflect the metal prices that a smelter would pay for concentrate nor are any smelter penalties or charges included in the calculation.

Owing to limited metallurgical data, zinc grades are not included at this stage in the lead equivalent grade calculation.

### Feed Study Macroeconomic Assumptions

Assumption	Unit	2025	2026	2027	2028	2029+
Lead Price	US\$/t	2,259	2,268	2,269	2,254	2,251
Silver Price	US\$/oz	24.8	25.8	26.4	27.3	27.5
Exchange Rate	A\$:US\$	0.70	0.70	0.70	0.69	0.68