

EQUITY RESEARCH

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SPEC BUY

Current Price Valuation

\$0.25 \$0.39

Code: Sector:		Metals an	MM8 d Mining
* All figures in AUD	unless stated	otherwise	
Shares on Issue (M):			196
Market Cap (\$M): cash			49
debt			
	224)		4
Net cash (\$M Dec 20			1
Enterprise value (\$N	/I):		48
52 wk High/Low (ps):	\$0.34	\$0.18
12m av. daily vol. (M	/Ishs):		0.15
Key Metrics			
	FY23e	FY24e	FY25
P/E (x)	16.3	5.6	4.4
EV/EBITDA (x)	-12.0	-12.0	1.7
Financials:			
i ilialiciais.	FY23e	FY24e	FY256
Revenue (\$M)	0	0	43
EBIT (\$M)	-4	-4	21
NPAT (A\$M)	-5	-9	10
Net assets (\$M)	95	86	99
Op CF (\$M)	-5	-9	23
Op Cr (\$W)	-5	-9	23
Per share data:			
EPS (c)	-0.8	-1.4	1.5
Dividend (cps)	-	-	
Yield (%)	-	-	
CF/Share (cps)	-0.8	-1.4	3.6
Prod (koz Au)	0.0	0.0	8.6
0.40			2500
0.35		A 1	2000
0.30		744 N.	1500
0.20	Phone di		1000
0.10			500
0.05	il a	1 11 1	1 300

Please refer to important disclosures at the end of the report (from page 7)

b-2020
r-2020
ay-2020
-2020
g-2020
p-2020
p-2020
vv-2020
vv-2020

Friday, 1 April 2022

Medallion Metals (MM8)

Conventional Route

Analyst | Royce Haese

Quick Read

A review by GR Engineering has concluded that the Ravensthorpe Gold Project should be able to generate gold dore and gold-copper-silver concentrate using an industry standard gravity-float-CIL processing route. This has given us the comfort to develop a mining model as a basis for valuation. Using the existing 674koz Au Resource estimate and assumed increases to the Resource <u>outlined in our recent note</u> as a starting point, we model a nominal eight year mine-life producing an average of 50kozpa. We derive a project level NPV₇ of \$147M for the Ravensthorpe Gold Project, and a net-asset valuation of \$76M. We see this valuation as a starting point for Medallion, with plenty of untapped exploration upside we expect the project to continue to grow. We maintain our Speculative Buy recommendation.

Conventional Route

Processing Update: On Monday, Medallion reported the outcome of metallurgical studies completed by GR Engineering Services. Studies confirmed that high gold, copper and silver recoveries are achievable through conventional processing methods. A Gravity-Float-CIL circuit has been identified as the preferred processing route, it is envisaged that the Ravensthorpe gold project will produce gold dore and a copper/gold/silver concentrate. GR Engineering estimate that the following proportions of metal will be able to be recovered to saleable products:

Gold: 94.6%Copper: 86.1%Silver: 73.3%

Within the oxide and transition zones, a tailings detoxification process using resin will be used to reclaim cyanide, and yield a copper precipitate. Early-stage concentrate characterisation and marketing work has demonstrated a saleable product (>20% Cu, 39 g/t Au) with low levels of penalty minerals. Future work will look to optimise grind size which Medallion says may reduce capital cost through utilising a simpler crushing/grinding circuit. We consider this visibility on a processing route to be a de-risking event for Medallion.

Argonaut Mining Scenario and Valuation: We have developed a mining scenario as a basis for valuation. Using Medallion's 2020 feasibility study as a starting point, and a mining inventory factoring in exploration success to date, we derive a project level NPV $_7$ of \$147M for the Ravensthorpe Gold Project. We have discounted recoveries outlined this week to factor in metallurgy remaining as a key risk. Industry-wide cost pressures also remain a risk.

Recommendation

We see this valuation as a starting point for Medallion. With upside exploration potential. We maintain our Speculative Buy recommendation with a valuation of \$0.39 per share.

*See Argonaut Mining Scenario and Valuation section for Equity assumptions

2022E

0.00

196

196

0

2023E

455

0.22

650

650

2024E

0.00

650

650

0

2025E

0.00

650

650

0

Shares

New shs issued/exerciseable

Average issue price Ordinary shares - end

Diluted shares - end



Medallion Metals Equities Research Analyst: Royce Haese

Recommendation Current Price Valuation	Speci	ulative Buy \$0.25 \$0.39				1	Sector ssued Capital (M: Market Cap (M)	shs)		als & Mining 196 \$49 1 April 2022
Profit & loss (\$M) 30 June	2022E	2023E	2024E	2025E	Financial ratios		2025E	2026E	2027E	2028E
Sales Revenue	0	0	0	43	GCFPS	Α¢	3.6	9.7	11.3	14.8
+ Other income/forwards	0	0	0	0	CFR	X	0.0	0.0	0.0	0.0
- Operating costs	0	0	0	-10	EPS	Α¢	1.5	4.5	5.7	7.9
- Royalties	0	0	0	-1	PER	X	16.3	5.6	4.4	3.2
- Corporate & administration	-4	-4	-4	-4	DPS	Α¢	-	-	-	-
Total Costs	-4	-4	-4	-15	Yield	%	-	-	-	-
EBITDA	-4	-4	-4	28	Interest cover	x	4.5	13.4	22.1	47.4
margin	0%	0%	0%	68%	ROCE	%	13%	31%	42%	69%
- D&A	0	0	0	-7	ROE	%	16%	34%	34%	33%
EBIT	-4	-4	-4	21	Gearing	%	61%	30%	12%	0%
+ Finance Income/Expense	0	-1	-5	-5						
PBT	-4	-5	-9	16	Operations summary		2025E	2026E	2027E	2028E
- Tax expense	0	0	0	-6	Ravensthorpe Gold Proje	ect				
- Impairments and other	0	0	0	0	Ore processed (Mt)		0.2	0.6	0.8	0.8
NPAT	-4	-5	-9	10	Head grade (g/t)		2.75	2.63	2.78	3.33
					Effective Au Recovery (%		89%	89%	89%	89%
					Float Gold Production (kd	-	9	25	33	42
Cash flow (\$M)	2022E	2023E	2024E	2025E	Payable Gold in Con (koz	s)	8	23	30	37
+ Revenue	0	0	0	43						
- Cash costs	-4	-4	-4	-15	Cost per milled tonne (AS		47	75	90	112
- Forwards	0	0	0	0	Cash costs pre royalty (A		508	853	928	933
-Tax payments	0	0	0	0	All in sustaining costs (A\$	5/oz)	656	958	1021	1017
+ Interest & other	0	-1	-5	-5	Growth capital (\$M)		13	16	15	10
Operating activities	-4	-5	-9	23	CAIC (A\$/oz)		1359	1670	1807	1698
- Property, plant, mine devel.	0	0	-140	-8			20255	22255	20275	20225
- Exploration	-3	-6	-6	-6	Price assumptions		2025E	2026E	2027E	2028E
- Deferred Consideration	0	0	0	0	AUDUSD	1165	0.725	0.725	0.725	0.725
Investment activities	-3	-6	-146	-14	Gold	USD	1750	1750	1750	1750
+ Borrowings	0	96	0	-20						**/ 1
- Dividends	0	0	0	0	Valuation summary	-t-70/ -ftt			A\$M	A\$/sh
+ Equity	0	100	0	0	Ravensthorpe Gold Proje	ct 7% real after tax			147	0.75
Financing activities	0 -7	196	0	-20	Exploration				29	0.15
Cash change	-/	185	-155	-11	Corporate Overheads				-28 5	-0.14
Balance sheet	2022E	2023E	2024E	2025E	Cash and bullion Debt				-4	0.02 -0.02
Cash & bullion	2022E	186	31	20232	Tax benefit				2	0.02
Other Current Assets	0	0	0	0	Hedging				0	0.00
Total current assets	2	186	31	2 0	Option/equity dilution				-76	-0.39
Property, plant & equip.	3	9	155	162	NAV				76	0.39
Investments/other	0	0	0	0						0.33
Total non-curr. assets	3	9	155	162	Directors, management					
Total assets	5	195	186	183	John Fitzgerald				Non-Evecuti	ive Chairman
Trade payables	0	0	0	4	Paul Bennett					ging Director
Short term borrowings	4	0	20	20	Edmund Ainscough					itive Director
Other	0	0	0	0	Anthony (Tony) James					itive Director
Total curr. liabilities	4	0	20	24	(rony) sumes				Exceu	
Long term borrowings	0	100	80	60	Top shareholders				M shs	%
Other	0	0	0	0	Bolong Investment Mana	gement Ltd.			45.0	23.0
Total non-curr. liabil.	o	100	80	60	Langyu International Hole				18.0	9.2
Total liabilities	4	100	100	84	Aurora Prospects Pty Ltd.	-			15.5	7.9
Net assets	1	95	86	99	Minmetals Pty Ltd.				15.5	7.9
	_				Fan Rong Minerals Conso	lidated			15.0	7.7
					5					
					Resources Dec '21		Mt	g/t Au	Kozs	Mkt cap/oz
					Ravensthorpe Gold Proje	ect	8.8	2.40	674	73
*See Argonaut Mining Scenario and Valuation se	ection for Equity assum	ptions			Indicated		7 1	2 30	526	

Argonaut model Jan '22
TOTAL INVENTORY

Ravensthorpe Gold Project

Indicated

Inferred

7.1

1.8

4.9

4.9

2.30

2.60

2.65

2.65

526

148

396

396

123.5



Conventional Route

Argonaut has developed a mining scenario as a basis for valuation

Argonaut Mining Scenario and Valuation

Argonaut has developed a mining scenario as a basis for valuation. Overall, most assumptions are in-line with those presented in the feasibility study outlined in Medallion's prospectus. Key changes in our model include:

- Scale up of assumed mining inventory based on exploration success
- Increase in cost assumptions
- Addition of assumed open-pit mining at Gem Restored
- Assumption of gold sales via concentrate and dore and copper sales via concentrate

We consider a standalone operation the only viable route for Medallion. Our assumptions are low confidence at this time, we will refine our model as the project advances.

We assume mining from four pits and two underground operations over a 8-year life of mine.

We consider a standalone operation the only viable route for Medallion to monetise Ravensthorpe due to the remote location and metallurgy of the ore.

All our mining assumptions are based on boiler-plate assumptions, as such, they are low confidence estimates. We will continue to refine our model as the project advances.

Our assumed mining inventory consists of four pits and two underground mines. Open pits: Flag, Harbour View, Gem, Gem Restored. Underground: Harbour View, Flag. The undergrounds underpin production with pits mined to accommodate portal development and sustain 800ktpa of ore mining. We assume ramp up to commence in CY24, with full scale production reached by CY26. Our assumed mining inventory and grades are outlined in table 1. Note, we have discounted pit copper grades vs Resource grades to account for low copper recoveries to concentrate in the oxide and transitional zones of the pits. At this stage we make no allowances for Cu precipitate production using the ReCYN process, as the project progresses, and we see more detail on this process this may provide improved revenue in our model from copper production.

Table 1: Argonaut assumed inventory by deposit

		Gold		Сор	per
	kt	g/t	kozs	%	ktCu
Flag Underground	450	4.9	70	0.50%	2.3
Harbour View Underground	650	4.6	96	0.90%	5.9
Flag Open Pit	183	4.1	24	0.20%	0.4
Harbour View Open Pit	253	2.5	20	0.30%	0.8
Gem Open Pit	3,208	1.8	186	0.05%	1.6
Gem Restored Open Pit	160	4.0	0	0.20%	0.3
Total Assumed Mining Inventory	4,904	2.6	396	0.23%	11.1

Source: Argonaut

We assume strip ratios as follows:

- Gem: 3.5:1, waste to ore, post \$4M assumed for pre-strip
- Flag: 5.0:1, waste to ore, post \$3M assumed for pre-strip
- Harbour View: 5.0:1, waste to ore, post \$3M assumed for pre-strip
- Gem Restored: 5.0:1, waste to ore, post \$2M assumed for pre-strip

We have assumed \$140M preproduction capex required For the construction of an assumed 800ktpa CIL processing facility and float circuit and other non-mining related infrastructure, we have assumed \$140M in pre-production



We assume a treatment cost of \$20/t of CIL ore, and all-in \$38/t for concentrate ore. We assume 92% recovery for CIL ore and 95% gold recovery to concentrate. We think payability for the coppergold concentrate will be high

Our starting point is an assumed 400kozs Au produced over eight years. The project has substantial exploration potential

We assume \$200M pre-production funding required, at this stage through a 50:50 debt-equity split

Using a 7% real after-tax discount rate we value the Ravensthorpe Project at \$147M, or \$0.75 per share

As a sum of parts, Argonaut values Medallion Metals at \$76M, or \$0.39 per share capital expenditure. We estimate a further \$230M LOM capex inclusive of capitalised underground development and sustaining capex.

For processing we assume a treatment cost of \$20/t of CIL ore. For concentration and shipping of the gold/copper concentrate we assume \$38/t of ore. We assume 92% gold recovery for the standard CIL gold ore, and 95% gold recovery to a concentrate for the floated component. For copper, we've assumed a conservative 70% recovery to concentrate. As there are no reported penalty metals, we assume the concentrate will be a saleable product and have therefore assumed 95% payability for both the copper and gold metal in con.

We have assumed 400koz Au produced over an eight year mine-life, we think that new discoveries are likely, both at virgin deposits, such as Ariel/Meridian and through expansions to the known undergrounds. Factoring in assumed operating costs and copper credits we derive a LOM average C1 cash cost of \$821/oz and an AISC of \$910/oz. Our assumed CAIC over LOM is \$1623/oz, heavily influenced by debt repayments.

Argonaut has used internal gold price estimates which average to US\$1750/oz Au and US\$8k/t Cu across the life of the project, and an AUD to USD currency conversion rate of \$0.725.

An \$100M debt facility and \$100M equity raise at a \$0.22 subscription price have been used to fund pre-production capital in our model. This results in equity dilution in present value terms of A\$76M. As the project expands and if it approaches the 1.5Mozs that Medallion targets as critical mass, we expect the share price to appreciate. If this were to occur the ratio of pre-production capex to current EV would lessen, reducing the equity dilution for current holders.

Using a 7% real after-tax discount rate we value the Ravensthorpe Project at \$147M, or \$0.75 per share.

We assign a nominal exploration valuation to the Ravensthorpe Gold Project equal to 20% of the projects post tax valuation, or A\$29M. All known deposits are unconstrained at depth. All being equal, fresh rock ore is worth more than oxide/transitional ore due to the higher demonstrated copper recovery.

As a sum of parts, Argonaut values Medallion Metals at \$76M, or \$0.39 per share. This valuation includes Argonaut's mining scenario for the Ravensthorpe project, a nominal exploration valuation, current cash and equivalents, and the current \$4M debt commitment to be paid at decision to mine. Corporate overheads and equity dilution are also included.



Table 1: Medallion Metals Valuation Summary.

Valuation summary	A\$M	A\$/sh
Ravensthorpe Gold Project 7% real after tax	147	0.75
Exploration	29	0.15
Corporate Overheads	-28	-0.14
Cash and bullion	5	0.02
Debt	-4	-0.02
Tax benefit	2	0.01
Hedging	0	0.00
Option/equity dilution	-76	-0.39
NAV	76	0.39

Source: Argonaut

If we were to use a lower discount rate of 5%, the Ravensthorpe gold project NPV would increase to \$177M or \$0.91 per share

If current spot gold (US\$1950) and exchange rate (0.75) were used our estimated Ravensthorpe Gold Project NPV would be \$179M

Key risks to Valuation

All else staying equal, if we were to use a lower discount rate of 5%, the Ravensthorpe gold project NPV would increase to \$177M or \$0.91 per share.

Argonaut's valuation of the Ravensthorpe Gold Project is highly sensitive to both gold price and exchange rate. We have used Argonaut's internal gold price estimate of US\$1750 and exchange rate of 0.725 AUD:USD across the life of the project. Of note, if current spot gold (US\$1950) and exchange rate (0.75) were used our estimated Ravensthorpe Gold Project NPV would be \$179M. The price of copper has minimal influence on our NPV for the project.

Table 2: Argonaut Mining Scenario for Ravensthorpe Gold Project NPV in AUD under varying gold price/exchange rate and Cu price.

		Gold Price (US\$/oz)							
		-10%	-5%	Base	+5%	+10%	+15%		
		1575	1662.5	1750	1837.5	1925	2012.5		
	0.80	64	84	103	123	143	162		
	0.75	90	111	132	153	173	194		
۵	0.725	104	126	147	169	190	212		
Si	0.70	119	141	164	186	209	231		
AUD:USD	0.65	153	177	201	225	249	274		
٩		Cu (US\$/t)							
		7,200	7,600	8,000	8,400	8,800	9,200		
	0.725	144	145	147	149	151	152		

Source: Argonaut

Project metallurgy and processing remains a key risk

Capital requirement is essentially an unknown in the current inflationary environment, we have left plenty of fat in our estimate which we feel is prudent Metallurgical testwork and processing design is in its infancy despite early indications looking promising. Processing remains a key risk in our view as the metallurgy of the project is more complicated than the majority of producing gold mines. Our assumed metal recovery is more conservative than the numbers in Medallion's recent announcement to factor in this risk.

Argonaut has assumed \$140M for the construction of the processing facility and associated infrastructure. This is centred around an 800ktpa processing facility. We consider our estimate to be on the high side, but prudent in the current inflationary cost environment. We have limited visibility on the timeframe to production and the cost environment at that future time.

To fund the pre-production capital expenditure Argonaut has assumed A\$200M in capital required, funded by a 50:50 equity raise to debt split. If Medallion were able to secure a higher proportion of debt funding NAV would improve. Similarly, assumed future equity



dilution is exacerbated by the large amount of assumed funding required in comparison to Medallion's current EV.

A final key risk is environmental and mining approvals. The project is located in the vicinity of the Kundip Nature Reserve and environmental sensitivities are common in the southwest of WA. This risk is slightly mitigated by historical mining completed at the project but will be a key consideration for Medallion as it advances the project.

We think the project has significant exploration upside, as such we expect the scale of the project to grow which will improve a number of our assumed metrics

We consider our current mining model a starting point. We maintain the Ravensthorpe Gold Project holds significant exploration upside, with potential for new discoveries and to expand the known. We expect the scale of the project to grow, which will improve a number of our assumed metrics and therefore the Company NAV.



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Argonaut acted as Co-lead Manager in respect of the Placement to raise up to \$4.7M announced in November 2021 and received fees commensurate with this service. Argonaut acted as Underwriter, Lead Manager and Bookrunner to the IPO of MM8 to raise \$12.5M in March 2021 and received fees commensurate with this service. Argonaut holds or controls 225,330 MM8 shares and 4M MM8 Options exercisable at \$0.35 on or before 31 January 2023.

The Analyst holds shares in MM8

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