\$0.90



## **METALS X LIMITED (MLX)**

## Post placement outlook

Metals X (MLX) completed a placement of 77M shares at 65cps to raise \$50M in July 2018. The placement timing and pricing is difficult to reconcile with the brink of delivery at Nifty narrative, except to the extent that 1) we overestimated liquidity and/or 2) the Company has been unable to plan and execute to date, and chose to cover the risk of more delays. MLX cited the need to keep its spending options open - and to maintain reasonable spending levels on regional exploration.

### Nifty forecasts remain in force

With all this in mind we continue to see MLX's plans at Nifty as realisable. At the start of August 2018, the Company reiterated its target of 40ktpa rate by the end of December 2018, which would require significant progress in the September 2018 quarter. Hartleys is looking for 6kt copper production from Nifty in the September 2018 quarter, leading into 8kt in the December 2018 quarter.

### Testing the model at lower commodity prices

Softer copper and tin prices in Australian dollar terms, have helped to drag down the MLX share price subsequent to the raise. At A\$3.68/lb Cu and A\$25600/t Sn, copper is 5% under our long-term AUD price assumption and tin is 2% lower that we assume long term. On our base case forecasts, Nifty and Renison maintain 13-15% forecast pre-tax margins at these current spot commodity prices. At spot prices, and assuming lower nominal (basement?) values for Rentails (A\$16M), Maroochydore (A\$19M), and Wingellina (A\$30M), we estimate a value of 73cps for Metals X (post placement).

### Banking on stronger copper

Our commodity price assumptions are predicated on copper supply deficits in 2020 and 2021. We think a new round of stimuli for the Chinese economy is on the way, marking an end to renminbi devaluation and corresponding metal price falls. Metals X is valued here at \$1.01 per share under our base case metal price assumptions.

The net dilutive effect of the placement under our base case forecasts is 19cps.

### Maintain Accumulate recommendation

A string of ramp up delays, followed by a placement, and a +7% fall in commodity prices - a situation almost guaranteed to create a share price discount to valuation. Most likely a discount will persist now until an extended record of delivery and solid cash flows can be established.

We anticipate copper and tin price recoveries. Also, the geology and development progress at Nifty suggest patience will eventually be rewarded. We drop our 12 month price target to 90cps and retain an Accumulate recommendation.

### 20 Aug 2018 Share Price \$0.54 \$1.01 Price Target (12 month)

### **Brief Business Description**

noteworthy record in underground mine rejuvenation and

### Hartlevs Brief Investment Conclusion

Nifty's rehabilitation is nearing completion and increasing copper production is expected in the December 2018 half.

Peter Newton (Chairman)

Warren Hallam (Executive Director and CEO)

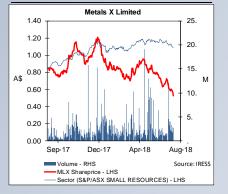
Apac Resources Limited	9.2%
BlackRock Group	8.2%
Jinchuan Group Limited	7.2%
IFM Investors	5.0%
Perennial Value Management	5.0%
Company Address	

### Level 5, 197 St Georges Tce

Perth, WA 6000	
Issued Capital	

Issued Capital	689m
- fully diluted	0m
Market Cap	A\$369m
- fully diluted	A\$0m
Cash + WC (30 Jun 18)	A\$79m
Debt (30 Jun 18)	A\$0m
EV	A\$290m

FY17	FY18	FY19e
24.8	16.1	32.8
3522	3338	4059
50	6	102
13	-41.2	60
7.3	0.8	14.8
1.9	-6.0	8.7
27.9	0.0	6.1
	Cu	Sn
	1179	157
	238	85
	24.8 3522 50 13 7.3 1.9	24.8 16.1 3522 3338 50 6 13 -41.2 7.3 0.8 1.9 -6.0 27.9 0.0 Cu 1179



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# **SUMMARY MODEL**

Metals X MLX											Rec	ommer	ndatio
Market Information Share price Market Capitalisation Net cash (debt) Issued Capital (fully paid) Issued Capital (fully diluted) EV Valuation 12 month price target Spot Valuation			\$0.54 \$369m \$85m 689m 704m \$284m \$1.01 \$0.90 \$0.73				Directors Peter Newton (Chairman) Warren Hallam (Executive Director and C Simon Heggen (Non-Exec Director) Yimin Zhang (Non-Exec Director) Stephen Robinson (Non-Exec Director) Milan Jerkovich (Non-Exec Director) Top Shareholders	EEO)	Level 5	+61 8 9	orges Tce WA 6000 1220 5700 1220 5757		
	Unit	lus 10		lun 20	lus 24	lus 22	Apac Resources Limited			63	9.2 8.2		
Profit & Loss  Net Revenue Forward sales Total Costs	Unit A\$M A\$M A\$M	232 -11 -242	399 -1 -297	Jun 20 458 0 -319	Jun 21 468 0 -319	<b>Jun 22</b> 464 0 -319	BlackRock Group Jinchuan Group Limited IFM Investors Perennial Value Management			56 50 34 34	7.2 5.0 5.0		
EBITDA - margin Depreciation/Amort EBIT Net Interest Pre-Tax Profit Tax Expense	A\$M A\$M A\$M A\$M A\$M	-22 -9% -20 <b>-41</b> 0 <b>-41</b>	101 25% -33 <b>68</b> 0 <b>68</b> -8	139 30% -33 106 0 106 -13	149 32% -32 117 0 117 -14	145 31% -29 116 0 116 -28	Production Summary Nifty throughput Mined grade Combined Recovery & Payability Copper prodn Mine Life	Mt %Cu (kt) yr	Jun 18 1.36 1.33 0.88 16 13.7	Jun 19 2.25 1.65 0.88 33 7.3	2.50 1.71 0.88 38 5.5	2.50 1.71 0.88 38 4.5	Jun : 2.5 1.7 0.8
NPAT Abnormal Items Reported Profit Balance Sheet	A\$M A\$M A\$M	-41 -41 Jun 18	60 60	93 93 Jun 20	102 102 Jun 21	88 88 Jun 22	Renison throughput (whole project) Mined grade Met. recovery Tin prodn (MLX share) Mine Life	Mt %Sn (kt) yr	0.73 1.24 0.73 3,338 11.8	0.92 1.30 0.68 4,059 8.4	0.92 1.30 0.68 4,059 7.4	0.92 1.30 0.68 4,059 6.4	0.: 1.: 0.: 4,0:
Cash Other Current Assets Total Current Assets Property, Plant & Equip. Investments/other Tot Non-Curr. Assets Total Assets Short Term Borrowings	A\$M A\$M A\$M A\$M A\$M <b>A\$M</b> A\$M	45 60 105 219 10 229 334	86 60 146 213 10 223 368	150 60 210 202 10 212 422	210 60 270 194 10 204 474	279 60 339 177 10 187 526	Costs Nifty Cost / milled tonne EBITDA / tonne milled ore Cash costs incl. royalty + deprn & amortn	A\$/t A\$/t A\$/lb Cu US\$/lb A\$/lb Cu US\$/lb	120 -21 4.77 3.67 4.91 3.77	97 25 3.21 2.41 3.34 2.50	95 37 3.02 2.29 3.15 2.39	94 40 3.02 2.33 3.15 2.43	3. 2. 3. 2.
Other Total Curr. Liabilities Long Term Borrowings Other Total Non-Curr. Liabil. Total Liabilities	A\$M A\$M A\$M A\$M A\$M A\$M	32 33 6 40 46 79	32 33 6 40 46 79	32 33 6 40 46 79	32 33 6 40 46 79	32 33 6 40 46 79	Renison Renison cost / milled tonne EBITDA / tonne milled ore Cash costs incl. royalty + sust capital	A\$/t A\$/t A\$k/t Sn US\$k/t A\$k/t Sn US\$k/t	136 46 16.8 12.9 23.6 18.1	125 48 16.1 12.1 18.2 13.6	128 51 16.5 12.5 18.1 13.7	130 51 16.8 12.9 18.4 14.2	1 1 1: 1:
Net Assets	A\$M	255	289	343	395	446	Price Assumptions	Unit	Jun 18	Jun 19	Jun 20	Jun 21	Jun
Cashflow	Unit	Jun 18	Jun 19	Jun 20	Jun 21	Jun 22	AUDUSD	US\$/lb	0.768 3.06	0.749 3.00	0.759 3.14	0.771	0.7
Operating Cashflow Income Tax Paid Hedging Interest & Other Operating Activities	A\$M A\$M A\$M A\$M <b>A\$M</b>	6 0 -11 0 -6	102 0 -1 0 101	139 -8 0 0 132	149 -13 0 0 136	145 -14 0 0 130	Copper Tin  Sensitivity Analysis	A\$/lb US\$k/t A\$k/t	3.99 20.5 26.7	4.01 20.0 26.7	4.14 21.0 27.7	3.27 4.24 21.6 28.0	4. 2. 2.
Property, Plant & Equip. Exploration Asset sales Investments Investment Activities	A\$M A\$M A\$M A\$M	-45 0 0 0 -45	-17 0	-13 0 -13	-13 0	-13 0	Base Case  US Cu price +/-10%  US Sn price +/-10%  AUDUSD +/- 10%	Sens 24% 11% 34%	/aluation 1.01 -10% 0.76 0.89 0.66	+10% 1.25 1.12 1.35	Sens 19% 9% 28%	8 NPAT 41.2 -10% -33.4 -37.5 -29.7	+10 -4: -4-
Borrowings Equity/dividend Financing Activities	A\$M A\$M <b>A\$M</b>	0 -4 -4	0 50 50	0 -8 -8	0 -10 -10	0 -21 -21	Production +/-10% Operating Costs +/-10%  Unpaid Capital Expiry year	4% 22%	0.97 0.78 No. (M)	1.05 1.23 \$M	13% 31% Avg ex.	-35.9 -28.4 % ord	-41 -5
Net Cash Change	A\$M	-55	134	111	112	96	30-Jun-18 30-Jun-19			0.0	0.00	0.0%	
Shares Ordinary Shares - End Diluted Shares - End	Unit M M	Jun 18 612 627	Jun 19 689 704	Jun 20 696 704	<b>Jun 21</b> 704 704	Jun 22 704 704	30-Jun-20 30-Jun-21 <b>Total</b>		7 8 <b>15</b>	6 11 <b>16</b>	0.76 1.32 <b>1.06</b>	1.2% 1.3% <b>2.5%</b>	
Ratio Analysis GCFPS CFR EPS PER DPS Yield Interest Cover ROCE ROCE Gearing *All values fully diluted unless other	Unit A¢ X A¢ X % % % x % % x % %	Jun 18 0.8 64.6 -6.0 0.0 1.0 1.9 -18% -16% 2.4%	Jun 19 14.8 3.6 8.7 6.1 - 30% 23% 2.1%	Jun 20 20.2 2.6 13.5 3.9 2.0 3.7 50% 31% 1.8%	Jun 21 21.6 2.5 14.9 3.6 3.0 5.6 57% 30% 1.5%	Jun 22 21.0 2.5 12.8 4.2 3.0 5.6 - 62% 26% 1.3%	Reserves & Resources NIFTY sulphide Cu (Aug 2017) Measured Indicated Inferred INCLUDES TOTAL RESERVE MAROOCHYDORE Cu Indicated Inferred RENISON Sn (MLX 50% June 2017) Renison Bell resource M Bischoff		Mt 48.4 25.4 8.1 8.1 13.9 48.6 40.8 7.8 39.9 15.0 1.7	% 1.4 1.7 1.3 1.1 1.7 1.0 0.9 1.4 0.8 1.4 0.5	kt 694 Cu 426 106 90 238 485 375 110 313 Sn 202 9		
Share Price Valuation (NAV) 100% Nifty after tax 7% DR 100% Maroochydore 50% Renison after tax 7% DR Rentails 50% Wingellina 100%		319 32 182 18 30	0.46 0.05 0.26 0.03 0.04				Mt Bischoff Rentalis resource INCLUDES TOTAL RESERVE Renision Bell Sn (MLX 50%) Rentalis Sn (MLX 50%) Hartleys model June 17		1.7 23.2 <b>29.1</b> 6.8 22.3	0.5 0.4 <b>0.6</b> 1.1 0.4	102 170 Sn 72 98		
Exploration Corporate overheads Net w/c (Jun 18) Tax benefit Hedging Option value Total		75 -49 72 65 -1 -51 <b>693</b>	0.11 -0.07 0.10 0.09 0.00 -0.07 <b>1.01</b>				TOTAL NIFTY INVENTORY TOTAL RENISON INVENTORY MLX sha	are	20.0 4.7	1.7 1.3	335 Cu 60 Sn		

Source: Hartleys Research.

# **COMMODITY PRICES**

The renminbi has weakened from 6.4 to 6.9 USDCNY since June 2018. The renminbi weakness corresponds to a slide in metals prices, including copper and tin. China consumes about half of the world's copper and tin. It is not surprising then that China exercises pricing power over metals now, probably with the goal of stabilising domestic prices. This is a new situation brought about by the Chinese economy's growth and its policy developments.

China let its currency weaken as per its strategy since July 2017 of non-intervention. The depreciation has conveniently offset the potential effect of US tariffs.

The PBOC will intervene however to stop a repeat of capital outflows seen in 2015 and 2016 that followed a shock devaluation.

A reversal of the renminbi devaluation against the USD began in December 2016 at 6.95 – policy makers will remember this as a key level.

We think a new round of stimuli for the Chinese economy is on the way, marking an end to renminbi devaluation and metal price falls.

AUD copper price assumptions

4.50
4.30
4.10
3.90
3.70
3.50
3.10
2.90
2.70
2.50

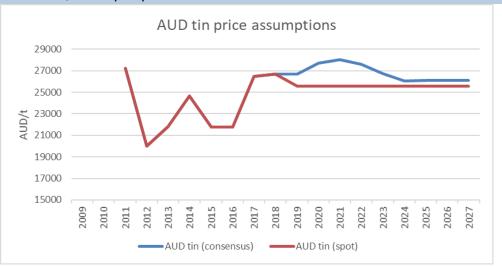
AUD copper (consensus)

AUD copper (spot)

Fig. 1: Hartleys copper price assumptions based on consensus forecasts, and spot prices held flat.

Source: Hartleys.

Fig. 2: Hartleys tin price assumptions based on consensus forecasts, and spot prices held flat.



Source: Hartleys.

## PRODUCTION AND COSTS

Fig. 3: Production forecasts.

Production Summary	Unit	Jun 17	Jun 18	Jun 19	Jun 20	Jun 21	Jun 22
Nifty throughput	Mt	1.54	1.36	2.25	2.50	2.50	2.50
Mined grade	%Cu	1.77	1.33	1.65	1.71	1.71	1.71
Combined Recovery & Payability		90%	88%	88%	88%	88%	88%
Copper prodn	(kt)	25	16	33	38	38	38
Mine Life	yr	13.0	13.7	7.3	5.5	4.5	3.5
Inventory tonnes	Mt	20.0	18.6	16.4	13.9	11.4	8.9
Inventory grade	%Cu	1.68	1.70	1.71	1.71	1.71	1.70
Renison throughput (whole project)	Mt	0.75	0.73	0.92	0.92	0.92	0.92
Mined grade	%Sn	1.29	1.24	1.30	1.30	1.30	1.30
Combined Recovery & Payability		73%	73%	68%	68%	68%	68%
Tin prodn (MLX share)	(kt)	3,522	3,338	4,059	4,059	4,059	4,059
Mine Life	yr	12.6	11.8	8.4	7.4	6.4	5.4
Inventory tonnes	Mt	9.4	8.7	7.7	6.8	5.9	5.0
Inventory grade	%Sn	1.29	1.29	1.29	1.29	1.29	1.28

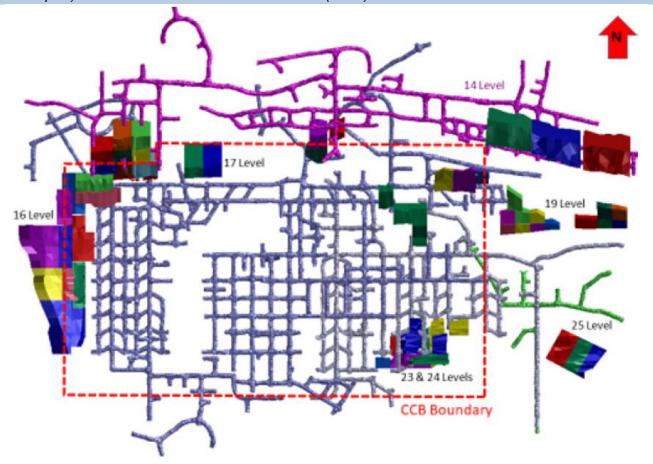
Source: Hartleys Research.

Fig. 4: Cost forecasts.

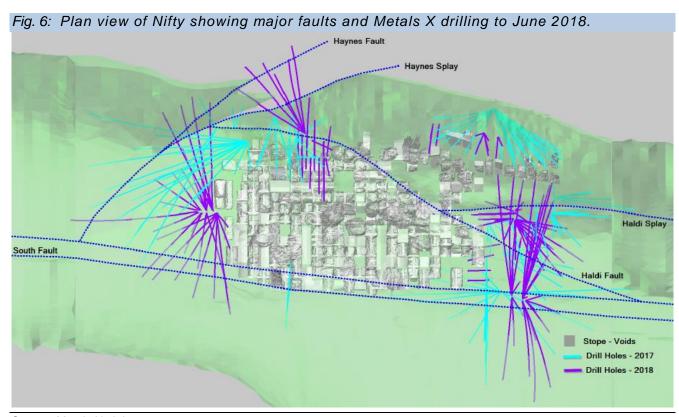
Costs		Jun 17	Jun 18	Jun 19	Jun 20	Jun 21	Jun 22
Nifty							
Cost / milled tonne	A\$/t	99	120	97	94	94	94
EBITDA / tonne milled ore	A\$/t	14	-21	24	31	30	33
Cash costs incl. royalty	A\$/lb Cu	2.94	4.77	3.20	3.01	3.00	3.00
	US\$/lb	2.22	3.69	2.43	2.30	2.32	2.33
+ deprn & amortn	A\$/lb Cu	3.43	4.91	3.33	3.14	3.13	3.12
	US\$/lb	2.59	3.79	2.53	2.40	2.42	2.42
Renison							
Renison cost / milled tonne	A\$/t	137	136	125	128	130	132
EBITDA / tonne milled ore	A\$/t	24	46	47	46	45	43
Cash costs incl. royalty	A\$k/t Sn	16.3	16.8	16.0	16.4	16.6	16.8
	US\$k/t	12.3	13.0	12.2	12.5	12.8	13.1
+ sust capital	A\$k/t Sn	18.0	23.6	18.1	18.0	18.2	18.4
	US\$k/t	13.6	18.2	13.8	13.7	14.1	14.3

Source: Hartleys Research.

Fig. 5: Plan view of Nifty underground development, showing planned stopes (coloured shapes) for FY2019 and the checkerboard (CCB) outline.

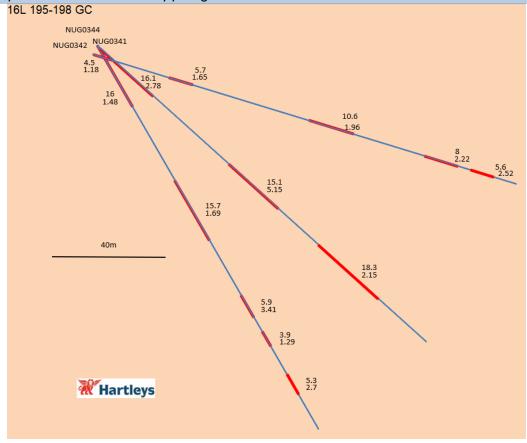


Source: Metals X, July 2018.



Source: Metals X, July 2018.

Fig. 7: Hartleys plot of three underground holes in the western 16L section of Nifty, reported in the June 2018 quarterly report. Represented here projected to a vertical section, with intercept metres above % copper grade.



Hartleys' 12 month price target is \$0.90 per share.

### VALUATION AND PRICE TARGET

Key model assumptions;

- 1. Nifty 20.0 Mt inventory at 1.7% Cu, mined at 2.5 Mtpa from January 2019. 91% met/payable recovery.
  - The inventory is 1.5 times the August 2017 reserve, in terms of contained copper. Capital costs of definition and development are included in the model. The mine life is assumed to extend to 2026.
- Nifty site cost of \$A74/t of milled ore at full capacity, US\$82/t concs transport, US\$95, 0.09 TCRC, 97% payability → A\$3.12/lb C3 (C1+royalty+deprn, AUDUSD 0.78).
- 3. Cu price as per summary table. (US\$3.00/lb long run).
- 4. Renison 9.4Mt inventory at 1.3% Sn, mined at 920ktpa, 68% sorting/met recovery. The modelled inventory contains 67% more contained tin than the June 2017 reserves. Ore definition at Renison progresses with mining. Capital costs of definition and development are included in the model. The mine life is assumed to extend to 2027.
- 5. Site cost of A\$100-110/t crushed ore, US\$110 concs transport, 92% net pay. US\$1.9Mpa Cu revenue  $\rightarrow$  A\$18,000/t AISC.
- 6. Sn price as per summary table; US\$19,500/t long run.
- 7. AUDUSD 0.78 long run.
- 8. A corporate overheads liability is included in the valuation to reflect the cost of management over the operational life of the company. Corporate overhead costs are estimated at A\$7Mpa.

Hartleys' estimated NAV for MLX is 101 cps, using price forecasts similar to consensus as set out in the summary model page.

A real, after tax discount rate of 7% is used.

At real spot price assumptions the MLX NAV estimate decreases to 73cps

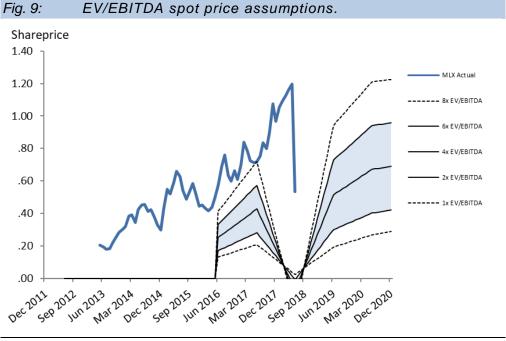
The 12 month price target for MLX is 10% less than the estimated NAV, or 90 cps.

MLX completed a demerger in December 2016, splitting its gold assets into Westgold Resources (WGX.ASX).

# EV/EBITDA BANDS

Fig. 8: EV/EBITDA base case assumptions. Shareprice 2.50 MLX Actual 2.00 -- Hartleys Target -- 8x EV/EBITDA 6x EV/EBITDA 1.50 4x EV/EBITDA - 2x EV/EBITDA 1.00 ----- 1x EV/EBITDA .50 .00 Dec 2017 Dec 2018 Dec 2019 Dec 2020

Source: Hartleys.



# RISKS

Assumption	Risk of not realising assumption	Risk to valuation if assumption is incorrect	Comment
Copper price	Medium	Industry	The current spot price is similar to our LT assumptions. Current settings are considered insufficient to encourage supply growth and mee future demand.
Tin price	Medium	Industry	A marginal tin supply response is expected, bringing the tin price down to ~\$19,500/t.
Nifty reserve extension	Low	High	Nifty is open down plunge and exploration drilling has begun to scope the project's potential.
Nifty costs	Medium	Medium	MLX has demonstrated unit costs at Nifty over several quarters. Costs are broadly in line with other bulk tonnage underground mines.
Renison reserve extension	Low	Medium	Renison reserves progress with mine development internally and around the margins of the resource.
Conclusion	opportunity. Both Nifty	and Renison are consid	d geological, and each has a counter balancing ered middle to lower cost curve producers in their long term mine life potential.

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### **Hartleys Recommendation Categories**

Buy Share price appreciation anticipa	ted.
---------------------------------------	------

Share price appreciation anticipated but the risk/reward is

not as attractive as a "Buy". Alternatively, for the share price to rise it may be contingent on the outcome of an uncertain or distant event. Analyst will often indicate a price level at which it may become a "Buy".

Neutral Take no action. Upside & downside risk/reward is evenly

balanced.

Reduce / It is anticipated to be unlikely that there will be gains over

Take profits the investment time horizon but there is a possibility of

some price weakness over that period.

Sell Significant price depreciation anticipated.

No Rating No recommendation.

Speculative Share price could be volatile. While it is anticipated that, Buy

on a risk/reward basis, an investment is attractive, there is at least one identifiable risk that has a meaningful possibility of occurring, which, if it did occur, could lead to significant share price reduction. Consequently, the

investment is considered high risk.

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