

# Caravel Minerals Limited

## Base Metals - Developer/Explorer

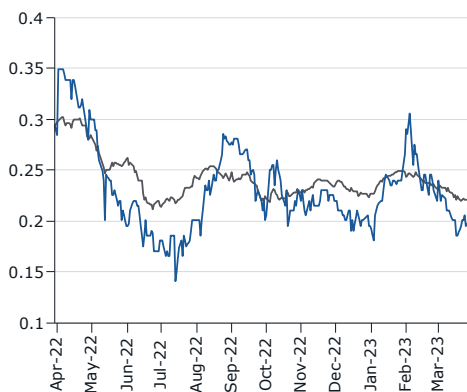
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Rating <b>SPECULATIVE BUY</b>	Price Target <b>A\$0.50</b>
CVV-ASX	Price <b>A\$0.20</b>

### Market Data

52-Week Range (A\$) :	0.14 - 0.36
Avg Daily Vol (M) :	0.4
Market Cap (A\$M) :	95.8
Shares Out. (M) :	479.2
Enterprise Value (A\$M) :	83.2
NAV /Shr (A\$) :	0.50
Net Cash (A\$M) :	12.7
P/NAV (x) (A\$) :	0.40

FYE Jun	2022A	2023E	2024E	2025E
EBITDA (A\$M)	(14.4)	(3.9)	(4.2)	(2.6)
Free Cash Flow (A\$M)	(13.7)	(11.3)	(14.4)	(98.8)
Net Debt (Cash) (A\$M)	(2)	(30)	(15)	84



— CVV.AU  
— S&P/ASX Emerging Companies (rebased)  
Source: FactSet

Priced as of close of business 28 March 2023

### Price target sensitivity to copper prices/FX

NAV	Copper price							
	\$0.50	\$3.00	\$3.25	\$3.50	\$3.75	\$4.00	\$4.50	\$5.00
USD/AUD	\$0.66	\$0.31	\$0.42	\$0.54	\$0.66	\$0.78	\$1.01	\$1.24
	\$0.68	\$0.26	\$0.38	\$0.49	\$0.60	\$0.72	\$0.94	\$1.17
	\$0.70	\$0.22	\$0.33	\$0.44	\$0.55	\$0.66	\$0.88	\$1.10
	\$0.72	\$0.18	\$0.29	\$0.39	\$0.50	\$0.61	\$0.82	\$1.04
	\$0.74	\$0.14	\$0.25	\$0.35	\$0.46	\$0.56	\$0.77	\$0.98
	\$0.76	\$0.11	\$0.21	\$0.31	\$0.41	\$0.51	\$0.72	\$0.92
	\$0.78	\$0.07	\$0.17	\$0.27	\$0.37	\$0.47	\$0.67	\$0.87

Source: Canaccord Genuity estimates

Canaccord Genuity received a fee for its role as Lead Manager to Caravel's \$12m equity raising at \$0.20 on 16 November 2022.

Canaccord Genuity, and its associates, holds an option position in CVV.AU.

Please refer to the important disclosure section of this report.

## A world class copper porphyry in our own backyard

**We initiate coverage of CVV with a SPECULATIVE BUY recommendation and a price target of \$0.50.**

Caravel Minerals Limited (CVV-ASX) is advancing the large Caravel Copper Project, located 150km northeast of Perth, Western Australia. The project occupies broad acreage, marginal farmland within a growing region of geological significance owing to Chalice Mining's (CHN-ASX | Not Rated) 2020 PGM-Ni-Cu discovery at Gonville (Julimar), 70km to the southwest. The Southwest (geological) Terrane, which hosts both Caravel and Gonville, also hosts globally significant mines including Boddington (Au) and Greenbushes (Li).

**Time to be owning copper:** Copper is essential to the energy transition due to its use in new energy technologies such as EVs, charging networks, solar PV and wind, energy storage and upgraded transmission/distribution infrastructure. We recently published a report on the copper sector, [The Junior Copper Book](#), and we reiterate our view that we see long-term structural demand growth potential driven by new energy technologies and the broader energy transition.

**Largest undeveloped copper project in Australia and globally significant:** The Caravel Copper Project hosts a large porphyry copper system. We make it the largest undeveloped copper project in Australia with a resource of 1,180Mt @ 0.24% Cu (& 48ppm Mo) for 2.84Mt of contained copper at a 0.1% Cu cut-off. The deposit has a low cut-off grade, which allows for a low resource grade. In global terms, the resource places Caravel in the top 20 of active development projects, held outside the majors.

**PFS highlights a long life, large production scenario:** CVV released an updated PFS in September 2022, outlining a 27Mtpa project producing 60ktpa of copper in concentrate at AISC of US\$2.37/lb (C1 costs of US\$1.54/lb) over a 28-year LOM. Initial capex is A \$1,584m inclusive of A\$176m pre-strip and A\$309m for mining equipment.

**How does this get funded and built?** A 27Mtpa plant is large and therefore relatively expensive to build. As seen with global peers (e.g. CMMC-TSX and TKO-TSX), it is not uncommon to undertake a 25% project sell-down at the development stage to a partner (e.g. Japanese consortium) for upfront consideration equal to a portion of the future project value. Our model assumes a 25% sell-down for A\$200m given our NPV<sub>8%</sub> is A \$874m. CVV is also assessing options for vendor financing partnerships to reduce the upfront mining equipment costs. Other financing options being assessed include debt and equity strategic partnerships and prepayments, and JV partners.

**Highly leveraged to the copper price:** As per the PFS, the Caravel Copper Project has a pre-tax NPV (7%) of A\$1.5bn at a US\$4.00/lb copper price and AUD/USD of 0.72. According to the PFS sensitivities, each 50c increase in the copper price adds A\$900m to the NPV. As shown in the sidebar, our valuation is similarly leveraged to copper. For example, our price target jumps 21% to \$0.61 at US\$4.00/lb copper (FX: \$0.72).

**Valuation and recommendation:** We initiate coverage of CVV with a SPECULATIVE BUY recommendation and a price target of \$0.50. Our NPV<sub>12%</sub> is based on the PFS and subsequent update, modelled on a fully-diluted basis and risked 80% to account for the early stage nature of the studies. We have assumed a funding scenario which involves a 25% project sell-down with the balance of capital covered through debt and equity. We risk this financing scenario to 75%. In our view, if CVV can obtain the necessary funding, partnerships and market attention, it is well-placed to take the Caravel Copper Project forward towards development. Its 27-year operating mine life is near class-leading among aspiring ASX copper developer peers and its ~60ktpa of contained copper production for C1 of US\$1.54/lb CuEq ranks it among the top ASX production assets such as OZL-ASX's Carrapateena (FY23 guidance 66kt @ C1 of US\$1.13/lb CuEq) and SFR-ASX's MATSA (FY23 guidance 63kt @ C1 of US\$1.82/lb CuEq).

**Figure 1: CVV financial summary**

Caravel Minerals Limited		CVV:ASX		Rating: <b>SPEC BUY</b>	
Analyst(s) :	Paul Howard			Target Price:	<b>A\$0.50</b>
Date:	28/03/2023				
Year End:	June				
<b>Market Information</b>					
Share Price	A\$	0.20			
Market Capitalisation	A\$m	95.8			
12 Month Hi	A\$	0.36			
12 Month Lo	A\$	0.14			
Issued Capital	m	479.2			
Options (avg. exercise price: \$0.33)	m	27.3			
Assumed future equity	m	825.0			
Fully Diluted	m	1331.5			
<b>Valuation</b>					
Caravel (75% ownership assumed) NPV @ 12%	Risked	A\$m	A\$/share		
Exploration & growth		203.7	0.16		
Corporate		34.0	0.03		
Net Cash as at 31-Dec-22		(24.8)	(0.02)		
ITM Options		12.7	0.01		
Assumed New equity	75%	-	-		
		431.3	0.33		
<b>TOTAL NAV/ Price Target</b>		<b>656.8</b>	<b>0.50</b>		
<b>Price:NAV</b>			0.40x		
<b>Assumptions</b>					
	2027e	2028e	2029e	2030e	2031e
Copper Price (US\$/lb)	4.38	4.13	4.00	3.75	3.50
Molybdenum Price (US\$/lb)	20.00	20.00	20.00	20.00	20.00
Silver Price (US\$/oz)	26.07	26.07	26.07	26.07	26.07
Gold Price (US\$/oz)	2,018	2,018	2,018	2,018	2,018
AUD:USD	0.70	0.72	0.72	0.72	0.72
<b>Sensitivity</b>					
<b>Production Metrics</b>					
	2027e	2028e	2029e	2028e	
<b>Caravel</b>					
Copper	kt	52	78	78	68
Molybdenum	kt	0	0	0	0
Silver	koz	540	755	755	755
Gold	koz	4	6	6	6
Payable Copper Equivalent	kt	54	81	81	72
C1 Cost (US\$/lb CuEq)		1.65	1.31	1.29	1.56
AISC (US\$/lb CuEq)		1.69	1.42	1.44	1.69
<b>Resources</b>					
	Mt	Cu %	Cu kt	CuEq %	CuEq kt
Measured	105.2	0.3	284	0.30	319
Indicated	574.0	0.24	1,397	0.26	1,503
Inferred	501.3	0.23	1,143	0.25	1,229
<b>Total</b>	<b>1,180.5</b>	<b>0.24</b>	<b>2,824</b>	<b>0.26</b>	<b>3,052</b>
<b>Reserves</b>					
	Mt	Cu %	Cu kt	CuEq %	CuEq kt
Proven	105.4	0.27	285		
Probable	478.0	0.24	1,143		
<b>Total</b>	<b>583.4</b>	<b>0.24</b>	<b>1,427</b>		
<b>Substantial shareholders</b>					
<b>Name</b>	<b>Shares (m)</b>	<b>%</b>			
Paradise Investment Management	45.5	9.5%			
<b>Profit &amp; Loss (£\$m)</b>					
	2022a	2023e	2024e	2025e	2026e
Revenue	0.0	0.0	0.0	0.0	0.0
Operating Costs	0.0	0.0	0.0	0.0	0.0
Exploration & O/heads	-3.7	-3.6	-4.0	-4.0	-4.8
Exploration (Expensed)	-10.8	-0.4	-0.4	-0.2	-0.2
<b>EBITDA</b>	<b>-14.4</b>	<b>-3.9</b>	<b>-4.2</b>	<b>-2.6</b>	<b>-1.8</b>
Dep'n	0.0	0.0	0.0	0.0	0.0
Net Interest	0.0	0.0	0.0	5.6	41.0
Other					
Tax	0.0	0.0	0.0	0.0	0.0
NPAT (reported)	-14.5	-3.9	-4.2	-8.3	-42.8
Abnormals	-0.0	0.0	0.0	0.0	0.0
<b>NPAT</b>	<b>-14.5</b>	<b>-3.9</b>	<b>-4.2</b>	<b>-8.3</b>	<b>-42.8</b>
<b>EBITDA Margin</b>					
	nm	nm	nm	nm	nm
<b>EV/EBITDA</b>					
	nm	nm	nm	nm	nm
<b>EPS</b>					
	-\$0.01	\$0.00	\$0.00	-\$0.01	-\$0.03
<b>EPS Growth</b>					
	nm	nm	nm	nm	nm
<b>PER</b>					
<b>Dividend Per Share</b>					
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Dividend Yield</b>					
	0%	0%	0%	0%	0%
<b>Cash Flow (£\$m)</b>					
	2022a	2023e	2024e	2025e	2026e
Cash Receipts	0.0	0.0	0.0	0.0	0.0
Cash paid to suppliers	-2.3	-3.6	-4.0	-4.0	-4.8
Tax Paid	0.0	0.0	0.0	0.0	0.0
Net Interest	0.0	0.1	0.2	7.2	44.2
+/- Working cap change	0.0	-3.3	-6.7	0.0	0.0
<b>Operating Cash Flow</b>	<b>-2.3</b>	<b>-6.8</b>	<b>-10.4</b>	<b>3.2</b>	<b>39.4</b>
Exploration and Evaluation	-11.4	-4.5	-4.0	-2.0	-2.0
Capex	0.0	0.0	0.0	-300.0	-770.0
Other	-0.0	-0.1	0.0	200.0	0.0
<b>Investing Cash Flow</b>	<b>-11.4</b>	<b>-4.5</b>	<b>-4.0</b>	<b>-102.0</b>	<b>-772.0</b>
Debt Drawdown (repayment)	0.0	0.0	0.0	233.3	356.7
Share capital	2.9	40.1	0.0	0.0	350.0
Dividends	0.0	0.0	0.0	0.0	0.0
Financing Expenses	0.0	-1.7	0.0	0.0	-14.0
<b>Financing Cash Flow</b>	<b>3.0</b>	<b>38.4</b>	<b>0.0</b>	<b>233.3</b>	<b>692.7</b>
Opening Cash	13.2	2.4	29.5	15.1	149.6
Increase / (Decrease) in cash	-10.7	27.1	-14.4	134.5	-39.9
FX Impact	0.0	0.0	0.0	0.0	0.0
<b>Closing Cash</b>	<b>2.5</b>	<b>29.5</b>	<b>15.1</b>	<b>149.6</b>	<b>109.7</b>
<b>Op. Cashflow/Share</b>					
	\$0.00	-\$0.01	-\$0.02	\$0.01	\$0.08
<b>P/CF</b>					
	-42.2x	-14.1x	-9.2x	30.1x	2.4x
<b>EV/FCF</b>					
	nm	nm	nm	nm	nm
<b>FCF Yield</b>					
	-14%	-12%	-15%	-103%	-764%
<b>Balance Sheet (£\$m)</b>					
	2022a	2023e	2024e	2025e	2026e
Cash + S/Term Deposits	2.4	29.5	15.1	149.6	109.7
Other current assets	0.2	32.0	2.0	182.0	464.0
<b>Current Assets</b>	<b>2.7</b>	<b>61.5</b>	<b>17.1</b>	<b>331.6</b>	<b>573.7</b>
Property, Plant & Equip.	0.2	0.2	0.2	300.2	1,070.2
Exploration & Develop.	3.1	7.1	10.7	12.5	14.3
Other Non-current Assets	0.0	0.0	0.0	0.0	0.0
Payables	1.2	0.0	0.0	0.1	0.3
Short Term Debt	0.0	0.0	0.0	0.0	0.0
Long Term Debt	0.0	0.0	0.0	182.3	464.3
Other Liabilities	0.0	47.9	11.2	453.4	857.9
<b>Net Assets</b>	<b>4.8</b>	<b>41.0</b>	<b>36.8</b>	<b>28.5</b>	<b>335.7</b>
Shareholders Funds	69.5	109.6	109.6	109.6	459.6
Reserves	4.1	4.1	4.1	4.1	4.1
Retained Earnings	-68.9	-72.8	-77.0	-85.2	-128.1
<b>Total Equity</b>	<b>4.8</b>	<b>41.0</b>	<b>36.8</b>	<b>28.5</b>	<b>335.7</b>
<b>Debt/Equity</b>					
	0%	0%	0%	639%	138%
<b>Net Debt/EBITDA</b>					
	1.1x	4.4x	1.4x	10.3x	9.0x
<b>Net Interest Cover</b>					
	nm	nm	nm	-0.5x	0.0x
<b>ROE</b>					
	-303%	-10%	-11%	-29%	-13%
<b>ROIC</b>					
	-306%	-10%	-32%	-2%	-3%
<b>Book Value/share</b>					
	\$0.00	\$0.03	\$0.03	\$0.02	\$0.25

Source: FactSet, Company reports, Canaccord Genuity estimates

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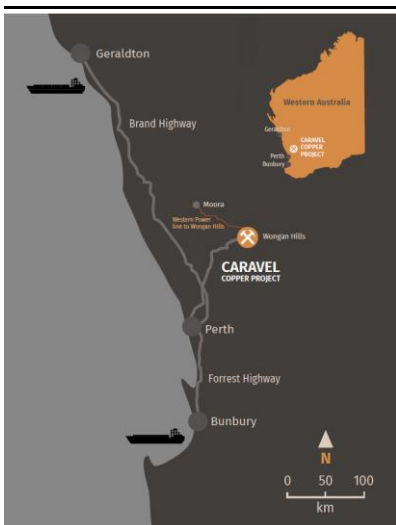
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## Overview

Caravel Minerals Limited (CVV-ASX) is advancing the large Caravel Copper Project, located 150km northeast of Perth, Western Australia. The project occupies broad acreage, marginal farmland within a growing region of geological significance owing to Chalice Mining's 2020 PGM-Ni-Cu discovery at Gonneville (Julimar), 70km to the southwest. The South-West (geological) Terrane, which hosts both Caravel and Gonneville, also hosts globally significant mines including Boddington (Au) and Greenbushes (Li).

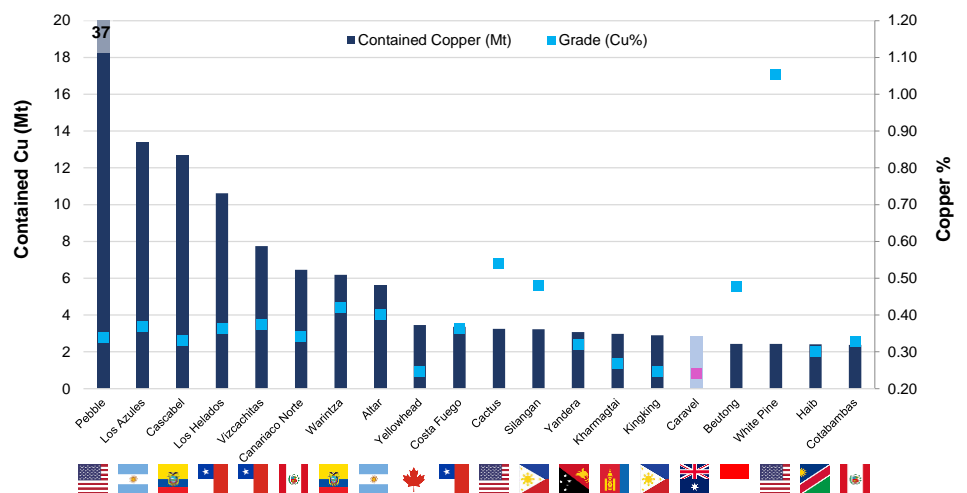
The Caravel Copper Project hosts a large porphyry copper system. On our reckoning, it is the largest undeveloped copper project in Australia with a resource of 1,180Mt @ 0.24% Cu (& 48ppm Mo) for 2.84Mt of contained copper and a reserve of 583.4Mt @ 0.24% Cu for 1.42Mt of contained copper. In global terms, the resource places Caravel in the top 20 of active development projects, held outside the majors as shown below in Figure 3. CVV is the only ASX-listed copper developer that makes this top 20 global list. One other key attribute is that it is located in a genuine Tier 1 jurisdiction.

**Figure 2: Project location map**



Source: Company reports

**Figure 3: Top 20 global, undeveloped copper projects with owners <A\$1bn market capitalisations**



Source: Company reports, S&P Global

### Company background

Caravel Minerals listed on the ASX in late 2006. The company acquired the Caravel Copper Project (previously known as the Calingiri Project) from Kingsgate Consolidated in March 2013. Prior to this, CVV was focussed on gold exploration in the Murchison and western Spain.

### Upcoming potential news flow

CVV is advancing towards a DFS in 1H24. Upcoming work includes sterilisation drilling, additional metallurgical testwork, grade control planning, mineral processing tests, mining equipment selection, submission of environmental approvals and preliminary marketing and financing discussions.

## Corporate and finance

### Capital structure

CVV currently has 479m ordinary shares on issue, with a further 27m options (various dates and exercise prices) that are currently out of the money.

Substantial shareholders include Paradise Investment Management at 9.49% and Executive Director Alasdair Cooke at 6.7%.

**Figure 4: CVV capital structure**

			Price		Expiry
<b>Issued Shares</b>	m	<b>479.184</b>	<b>\$0.200</b>		
CVVAE - Options	m	15.580	0.300	4.67	30/06/2023
CVVAAD - Options	m	2.000	0.300	0.60	3/03/2024
CVVAAF - Options	m	1.730	0.750	1.30	31/05/2023
CVV*** - Options	m	8.000	0.310	2.48	31/10/2025
<i>Total options</i>	<i>m</i>	<i>27.300</i>	<i>0.330</i>	<i>9.05</i>	
<b>Fully diluted</b>	<b>m</b>	<b>506.488</b>			

Source: Company reports

### Balance sheet and liquidity

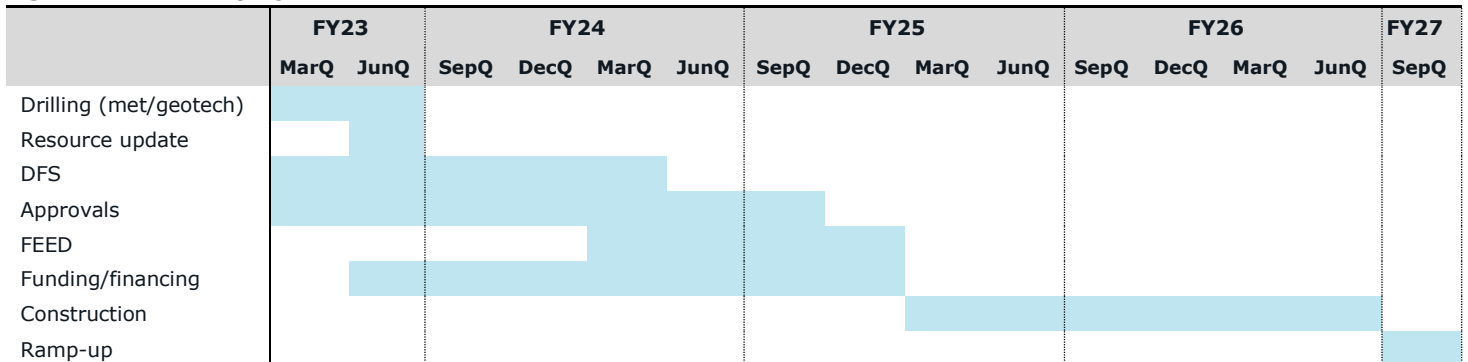
CVV had a reported cash position as at 31 December 2022 of A\$12.7m. We estimate that current liquidity should be sufficient to see CVV part-way through to completion of the DFS by mid-2024.

### Directors and management (full director bios **Directors** and key management)

- Wayne Trumble – Non-Executive Chairman
- Don Hyma – Managing Director
- Alasdair Cooke – Executive Director
- Richard Monti – Non-Executive Director
- Daniel Davis – Company Secretary & Chief Financial Officer
- Jason Vos – Mining Manager
- Michael Klvac – Approvals & Compliance Manager
- Bruce McLarty – GM Commercial
- Chantal Hartstone – Social & Stakeholder Advisor



**Figure 7: Assumed project timeline**



Source: Canaccord Genuity estimates

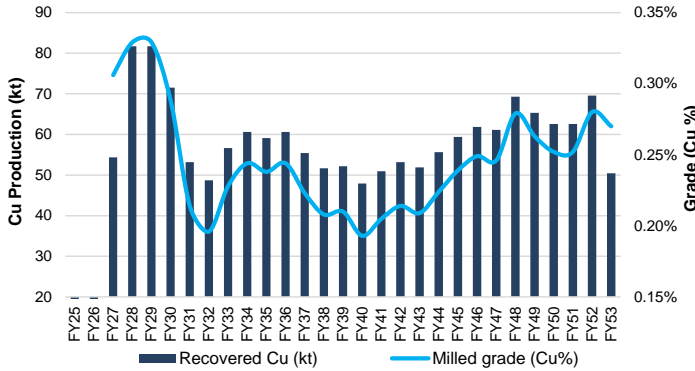
**Figure 8: CG key assumptions vs CVV assumptions**

	Units	CVV PFS Update September 2022	CGe March 2023	% Difference (CGe vs CVV)
Assumed mine inventory	Mt ore	715.0	713.2	0%
Avg LOM Copper grade	%	0.24%	0.24%	0%
Mine Life	yrs	27	27	0%
Strip Ratio (excl. prestrip)		0.99	1.06	7%
Average annual ore processed	Mtpa	27.0	26.5	-2%
Copper recoverey	%	92%	92%	0%
LOM recoverable Copper	kt	1,611	1,609	-0.2%
Avg. annual copper production	kt	59.7	59.6	0%
Copper payabilities	%	95%	95%	0%
LOM payable copper	kt	1,531	1,528.6	0%
Avg annual payable copper	kt	56.7	56.6	0%
Avg. LOM copper price	US\$/t	8,818	7,900	-10%
	US\$/lb	4.00	3.58	-10%
Revenue (copper)	A\$m	18,751	16,840	-10%
Mining costs	A\$/t mined	1.25	1.32	5%
Processing costs	A\$/t milled	5.27	5.55	5%
G&A	A\$/t	0.58	0.61	5%
Opex	A\$/t	8.35	8.87	6%
Transport & TCS	A\$/t milled	2.38	2.50	5%
By-product credit	A\$/t	-1.22	-1.22	0%
C1 (CuEq)	US\$/lb	1.54	1.71	11%
Total Project capital	A\$m	3,049	3,208	5%
Pre-production capital	A\$m	1,100	1,200	9%
Prestrip(s)	A\$m	467	500	7%
Mining Fleet	A\$m	309	320	4%
Sustaining capital	A\$m	1,173	1,188	1%
AUD:USD		0.72	0.72	

Source: Company reports, Canaccord Genuity estimates

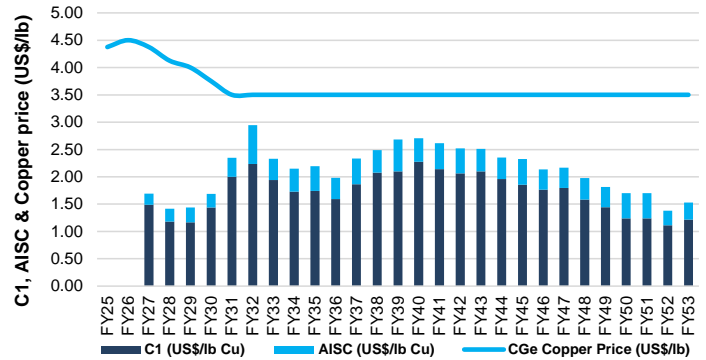
Figure 9-16 demonstrate our forecast production, C1 cost and AISC profile, key physicals, earnings and cash flow forecasts for the Caravel Copper Project.

**Figure 9: CG modelled production and grade profile**



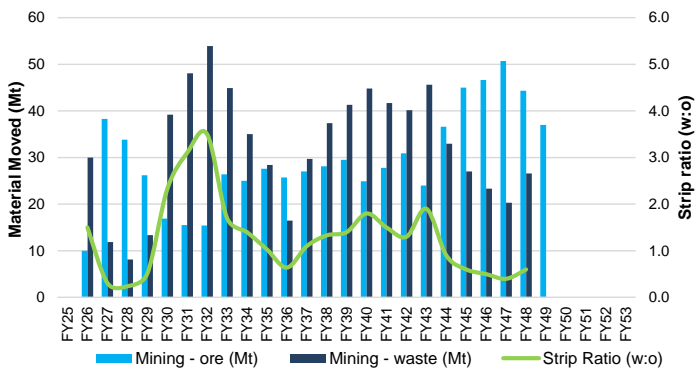
Source: Canaccord Genuity estimates

**Figure 10: CG modelled C1, AISC vs copper price**



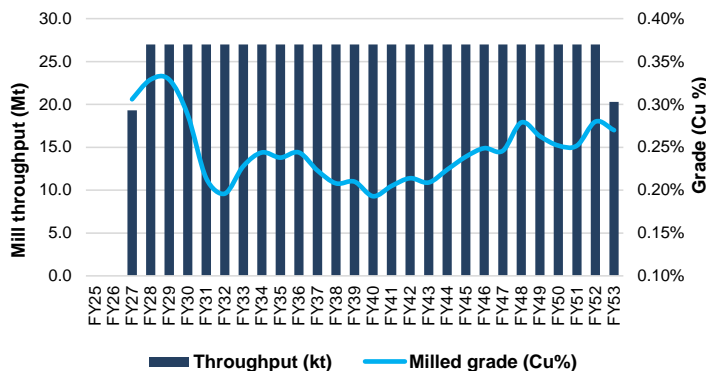
Source: Canaccord Genuity estimates

**Figure 11: CG modelled material movement and strip ratio**



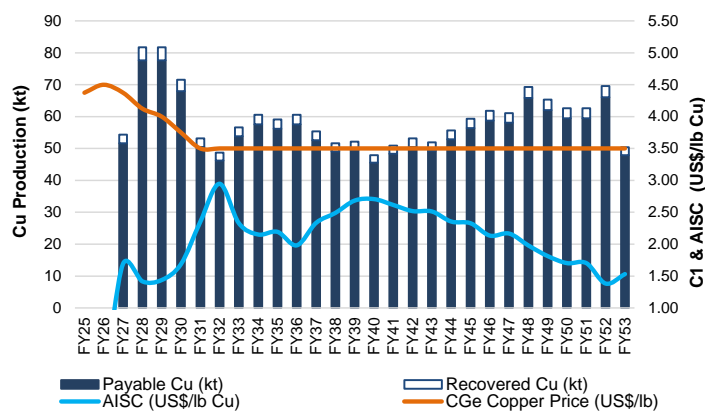
Source: Canaccord Genuity estimates

**Figure 12: CG modelled plant and throughput**



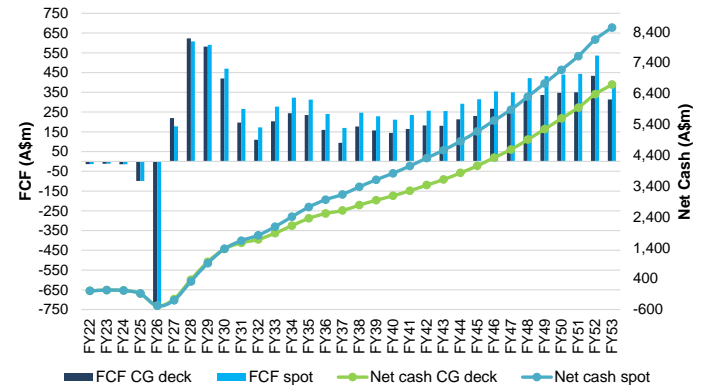
Source: Canaccord Genuity estimates

**Figure 13: CG modelled production, AISC vs CGe copper price**



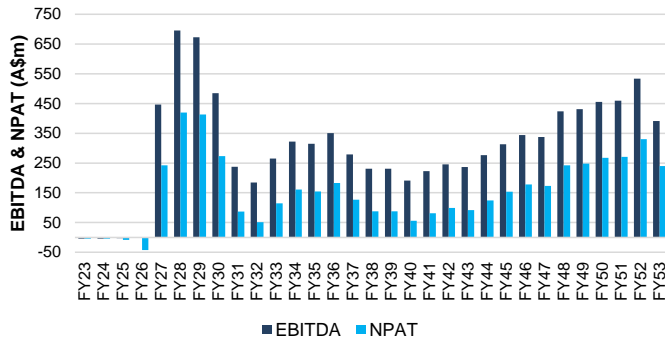
Source: Canaccord Genuity estimates

**Figure 14: FCF sensitivity, annual and cumulative (CG deck and spot)**



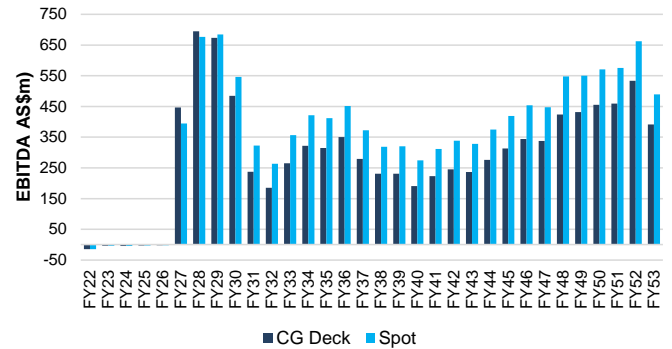
Source: Canaccord Genuity estimates

**Figure 15: EBITDA and NPAT**



Source: Company reports, Canaccord Genuity estimates

**Figure 16: EBITDA sensitivity (CG deck and spot)**



Source: Company reports, Canaccord Genuity estimates

**Sensitivity to key input assumptions**

We have completed a comprehensive sensitivity analysis to examine a number of scenarios and test the resiliency of the project.

**Commodity prices and FX**

Our copper price assumptions are based on internal supply and demand models. FX assumptions are based on the forward curve. Both commodity price and FX assumptions are consistent with our valuations across our coverage universe. We have conducted sensitivity analysis across FX and discount rate scenarios applied to US\$3.00 to US\$5.00/lb copper price assumptions with outcomes shown in Figure 17 and 18. The Caravel Copper Project is significantly leveraged to the copper price. At a long-term FX of \$0.72 and US\$4.00/lb copper, our price target increases 21% to \$0.61.

**Figure 17: NAV sensitivity - copper prices and FX**

		Copper price							
NAV		0.50	\$3.00	\$3.25	\$3.50	\$3.75	\$4.00	\$4.50	\$5.00
USD/AUD	\$0.66	0.31	0.42	0.54	0.66	0.78	1.01	1.24	
	\$0.68	0.26	0.38	0.49	0.60	0.72	0.94	1.17	
	\$0.70	0.22	0.33	0.44	0.55	0.66	0.88	1.10	
	\$0.72	0.18	0.29	0.39	<b>0.50</b>	0.61	0.82	1.04	
	\$0.74	0.14	0.25	0.35	0.46	0.56	0.77	0.98	
	\$0.76	0.11	0.21	0.31	0.41	0.51	0.72	0.92	
	\$0.78	0.07	0.17	0.27	0.37	0.47	0.67	0.87	

Source: Canaccord Genuity estimates

**Figure 18: FCF sensitivity – copper prices and FX**

		Copper price							
NAV		0.50	\$3.00	\$3.25	\$3.50	\$3.75	\$4.00	\$4.50	\$5.00
Discount rate	5%	0.56	0.80	1.03	1.27	1.51	1.98	2.45	
	8%	0.33	0.49	0.65	0.82	0.98	1.31	1.63	
	10%	0.24	0.37	0.50	0.63	0.76	1.03	1.29	
	12%	0.18	0.29	0.39	<b>0.50</b>	0.61	0.82	1.04	
	14%	0.14	0.23	0.32	0.41	0.50	0.68	0.86	

Source: Canaccord Genuity estimates

### Project funding

A 27Mtpa plant is large and therefore relatively expensive to build (see peer comparisons below). CVV expects A\$1.1bn for construction of the plant/infrastructure, a further A\$309m for the mining fleet and A\$176m for the first pre-strip. All up, in excess of A\$1.5bn is required. We are more conservative, modelling A\$1.72bn. As seen with global peers, it is not uncommon to undertake a 25% project sell-down to a partner at the development stage for upfront consideration equal to a portion of the future project value.

Taseko Mines (TKO-TSX) and Copper Mountain Mining Corp (CMMC-TSX), both operate large scale, low-grade open pit copper mines in Canada. As show in **Error! Reference source not found.**, the mines are similar in parameters to what CVV envisages at the Caravel Copper Project. Both TKO and CMMC previously sold down a 25% stake in their projects to Japanese groups, to assist with funding at the development stage.

- In 2010, TKO sold 25% of its Gibraltar mine to a Japanese consortium (Sojitz, Dowa & Furukawa) for C\$187m.
- In 2009, CMMC sold a 25% interest in its namesake project, Copper Mountain, to Mitsubishi for C\$28.75m, a C\$250m project loan and offtake rights to all copper concentrate from the mine.

Our model assumes a 25% sell-down for A\$200m given our NPV<sub>8%</sub> is A\$874m. CVV is also assessing options for vendor financing partnerships to reduce the upfront mining equipment costs. Other financing options being assessed include debt and equity strategic partnerships and prepayments, and JV partners. We model vendor financing for mining equipment with a 10% interest rate, with the balance of project funding (CVV's assumed 75% interest) funded through traditional debt and equity. Our funding is summarised as follows:

**Figure 19: CGe funding requirements**

Requirement	A\$m
Total upfront funding requirement	1,720
CVV's share (assuming 25% sell-down for A\$200m)	1,290
Vendor financing loan	-320
CVV cash balance (post 25% sell-down)	-200
Balance requiring debt and equity funding	770
Less expected deferred payments (some pre strip paid with cash flow in year 2)	-70
<b>Debt requirement: 50%</b>	<b>350</b>
<b>Equity requirement: 50%</b>	<b>350</b>

Source: Canaccord Genuity estimates

## Peer comparisons

**Figure 20: Direct mine peer comparisons (TKO & CMMC) plus comps with ASX mining costs (DEG & NST)**

Company Ticker	CVV	Direct peer comparisons			Indirect peer comparisons	
	Caravel Minerals Limited CVV-ASX	Taseko Mines Limited TKO-TSX	Copper Mountain Mining Corporation CMMC-TSX		De Grey Mining Ltd DEG-ASX	Northern Star Resources Ltd NST-ASX
Mkt Cap (A\$m)	\$96	\$652	\$423		\$2,361	\$13,443
Operation/Development	Caravel	Gibraltar	Copper Mountain		Mallina	KCGM
Ownership	100%	75% - TKO	75% - CMMC		100%	100%
Location	Australia	Canada	Canada		Australia	Australia
Status	Studies	Operating	Operating	Expansion from 2028	Studies	Operating
Source	2022 PFS	2022 Reserve Update	2018 LOM Plan	2022 Expansion Study	2022 PFS	DecQ23 Report
Resource (Mt)	1,181	1,293	724	1,578		
Grade (Cu %)	0.24	0.22	0.25	0.21		
Grade (CuEq %)	0.26	0.23	0.28	0.25		
Contained CuEq (kt)	3,050	2,974	2,026	3,968		
Reserve (Mt)	583	706	210	702		
Grade (Cu %)	0.24	0.25	0.26	0.24		
Grade (CuEq %)	0.24	0.26	0.30	0.29		
Contained CuEq (kt)	1,427	1,836	630	2,037		
Mine life (years)	27	23	14	32	14	
Throughput (Mtpa)	27	29	15	23	10	13
Grade (Cu %)	0.24	0.25	0.26	0.25		
Recovery (%)	92%	85%	79%	88%		
Annual production (Cu ktpa)	60	63	30	52		
Strip ratio (w:o)	1.3	2.4	2.9	2.08	6.1	
Mining Cost (US\$/t mined)	1.05	1.35	2.12	1.70	2.65	1.25
Processing cost (US\$/t)	3.79	3.50	3.95	3.87		
G&A, Transport, TCRCs (US\$/t)	2.13	2.11	1.85	1.94		
By-product credit (US\$/t)	-0.88	-0.77	-3.17	-3.97		
C1 (US\$/ Cu lb)	1.54	1.80	2.24	1.76		
Preproduction capital (US\$m)	1140	616*	436**	237***		
LOM sustaining capital (US\$m)	714	706	56	828		
LOM capital (US\$m)	2231	1322	56	1288		
Local FX to USD	0.72	0.77	0.80	0.77		
Copper Price assumption (US\$/lb)	4.00	3.50	3.08	3.60		

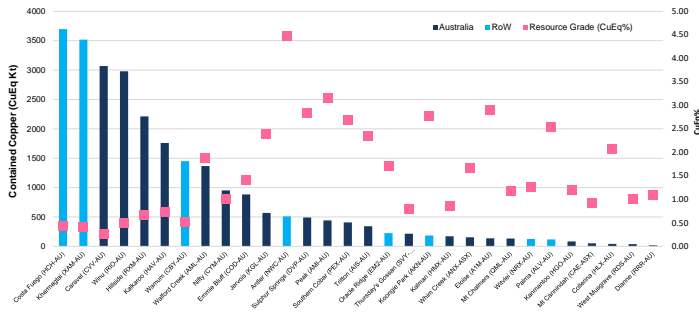
\*Expansion capital: C\$800m spent between 2006 and 2013. TKO estimates replacement value at +US\$1bn

\*\*No expansion capital reported for the 2011 increase from 12.5Mtpa to 15Mtpa. Initial capex for the 15Mtpa plant was US\$438m

\*\*\*Expansion capital to increase from 15Mtpa to 23Mtpa

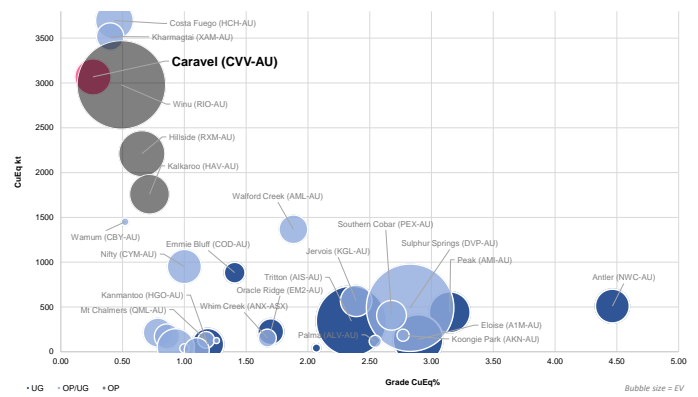
Source: Company reports, Canaccord Genuity estimates

**Figure 21: ASX global copper resources & grades**



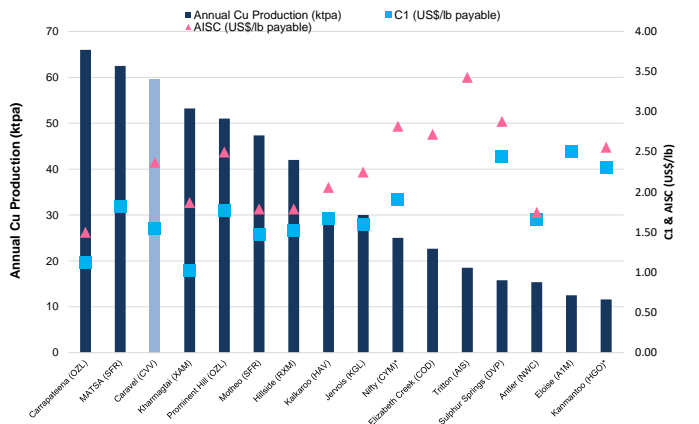
Source: Company reports, Canaccord Genuity

**Figure 22: ASX Resources vs copper grades vs EV**



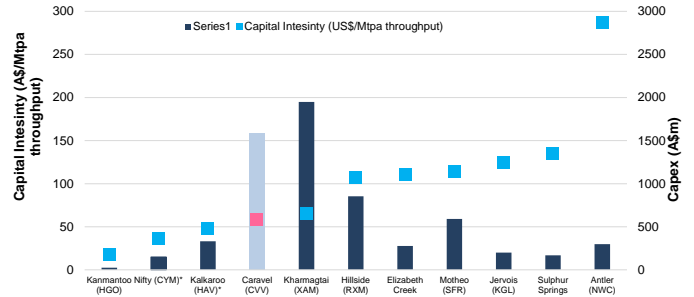
Source: FactSet, Company reports, Canaccord Genuity

**Figure 23: ASX estimated annual production vs costs/lb**



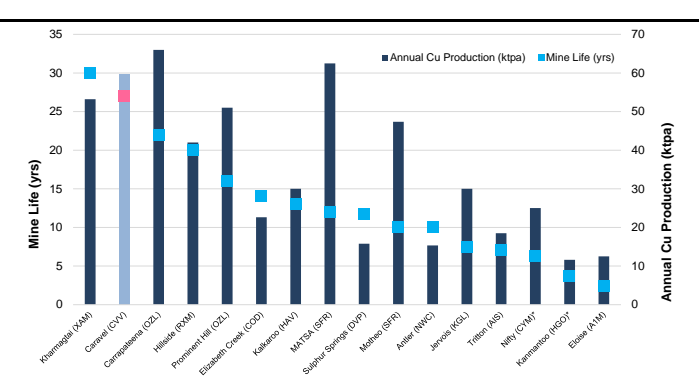
Source: FactSet, Company reports, Canaccord Genuity

**Figure 24: ASX capex and capital intensity**



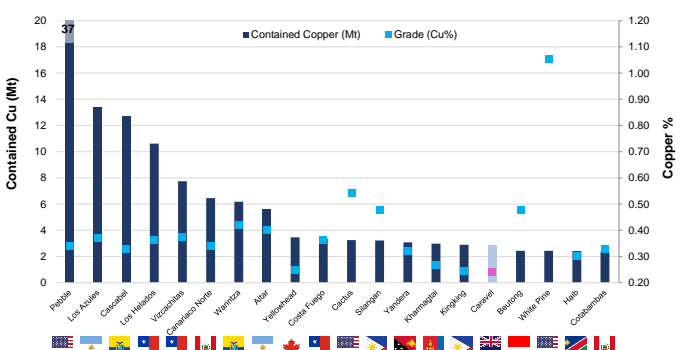
Source: Company reports, Canaccord Genuity

**Figure 25: ASX mine life and average annual production**



Source: Company reports, Canaccord Genuity

**Figure 26: Top 20 global, undeveloped copper projects with owners <A\$1bn market capitalisations**



Source: Company reports, Canaccord Genuity

## Asset overview: Caravel Copper Project

### Location, access and infrastructure

The Caravel Copper Project is spread over three exploration leases (E70/2788, E70/3674 and E70/3680) and is within mining lease applications MLA70/1410 and MLA70/1411. It is located 150km northeast of Perth near the town of Wongan Hills. The project is best accessed by road from Perth via the Tonkin Hwy then Great Northern Hwy to Wannamal, and then via the Calingiri-Wongan Hills Road, which cuts through the project area. The project is serviced by existing grid-power from the WA State (SWIS) grid. The Caravel Copper Project comprises the main Bindi deposit alongside the Dasher and Opie satellites with the Ninan and other prospects offering future growth potential.

### Background

A well-known regional roadside soil geochemistry sampling program, undertaken by Dominion Mining between 2005 and 2013 in the WA wheatbelt, identified anomalous copper at the project. Follow-up RC drilling in 2010 led to the discovery of chalcopyrite and molybdenite mineralisation over widths of up to 250m. CVV acquired the project from Kingsgate Consolidated (who had acquired Dominion) in 2013 and continued exploration efforts, resulting in the discovery and delineation of a large system of copper mineralisation with significant associated molybdenum, and to a lesser extent associated silver and gold.

Further infill drilling between September 2015 and March 2016 resulted in the estimation of a maiden resource in 2016. Work continued and in 2019, an updated resource formed the basis for a Scoping Study which confirmed potential for a long-life project. Since then, significant further delineation drilling and detailed infill drilling programs have been completed to define higher grade zones within the Bindi East Limb and Hinge Zone. In November 2021 the current JORC Mineral Resource was published with an estimated 1.18Bt @ 0.24% Cu for 2.84Mt contained Cu. A PFS was published in July 2022 and a subsequent update in September 2022. CVV continues to progress the project towards a DFS in 1H24.

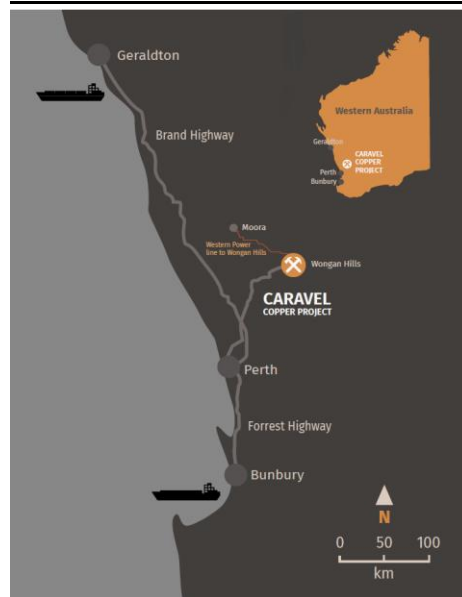
**Figure 27: Resource growth since 2016**

OVER 100% GROWTH COPPER TONNES SINCE 2016



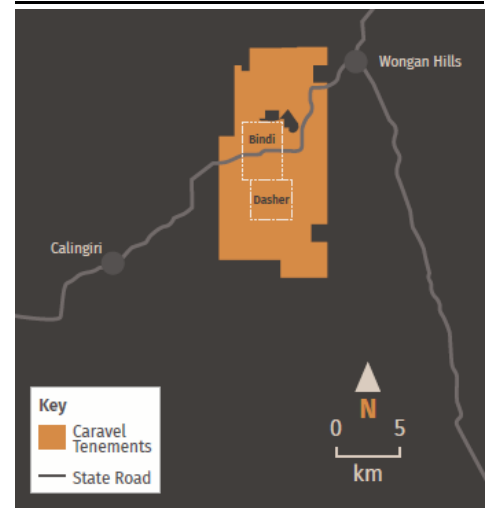
Source: Company reports

**Figure 28: Project location map**



Source: Company reports

**Figure 29: Close up of project**

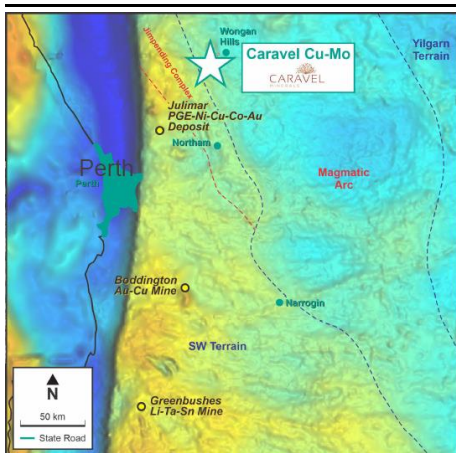


Source: Company reports

**Geology and mineralisation**

Mineralisation at the Caravel Copper Project is hosted by a large porphyry copper system within a highly deformed Archaean granite. Typical porphyry style quartz veins hosting chalcopyrite and minor other sulphides have been transposed into the dominant foliation trend to present as numerous, narrow stringers of mineralisation within the surrounding quartz-biotite gneiss. The density of the veins and stringers correlates with grade. The regional geological setting is consistent with a porphyry model, with the 30km mineralised trend following the margins of a granite batholith, referred to as the Wongan Batholith (Figure 31).

**Figure 30: Southwest Terrane**



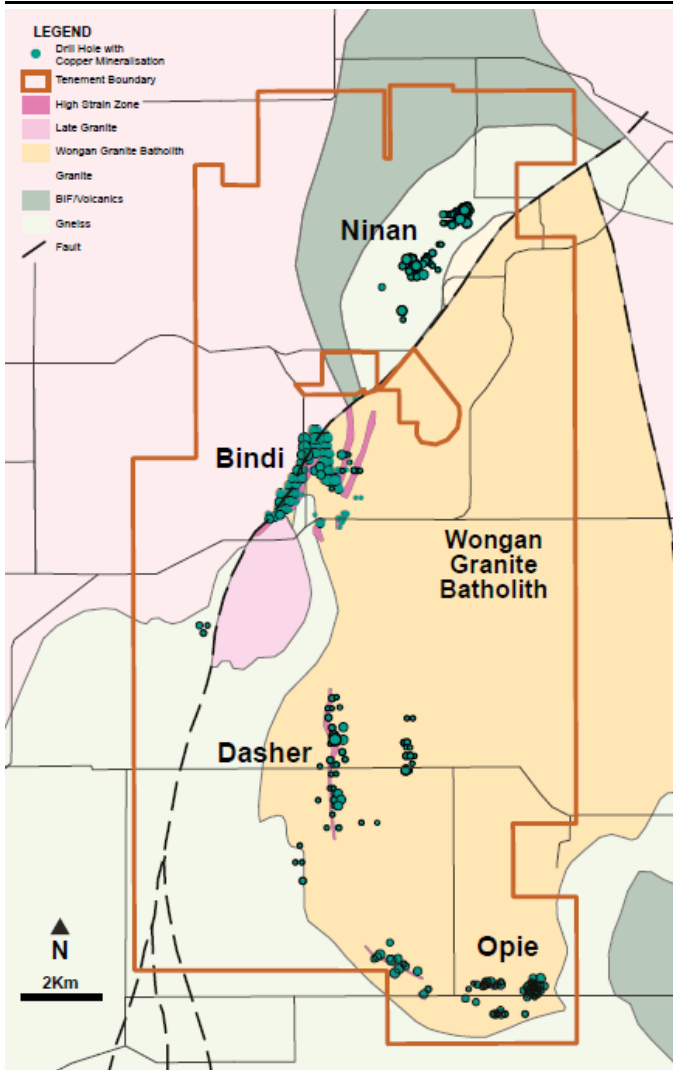
Source: Company reports

The Wongan Batholith sits immediately west of a major north-south trending structure that splays from the regional terrane boundary between the older Southwest Yilgarn Block and the younger accreted terranes to the east. The boundary is interpreted as a suture remaining after closure of an Archaean subduction zone that was active around 3.0 Ga – 2.7 Ga and is inferred to be related to the formation of the Wongan Batholith, dated at around 3.0 Ga, and associated porphyry intrusions responsible for mineralisation.

Host granites and associated mineralisation have been dated at around 3.0 Ga, with subsequent deformation and up to granulite facies metamorphism around 2.7 Ga, coincident with the regional deformation event and also gold mineralisation at Kalgoorlie and the wider Yilgarn goldfields. The Boddington gold deposit, also located in the SW Yilgarn Terrane, is one of Australia’s largest gold deposits and a significant copper producer. This deposit also shows affinities with porphyry style mineralisation with diorite host rocks dated around 2.7 Ga.

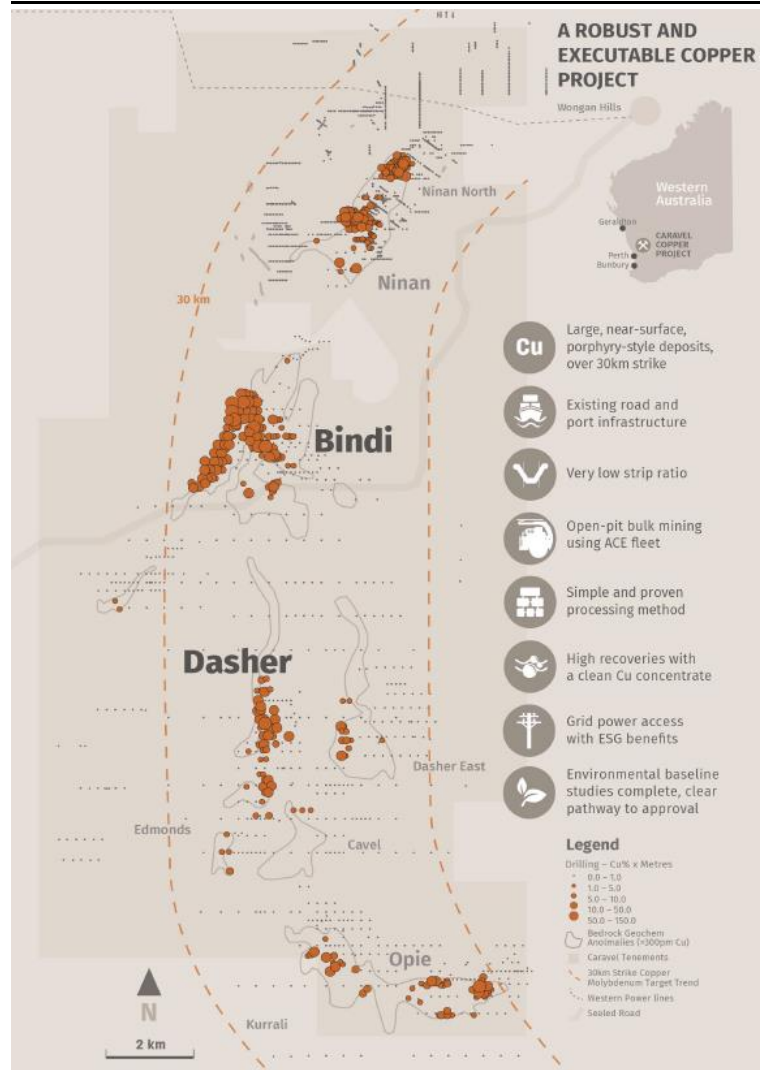
Copper occurs almost exclusively as chalcopyrite sulphides associated with quartz veins. Whilst individual veins may be semi-massive chalcopyrite, the bulk grades are determined by the frequency and thickness of these veins, which may be up to several centimetres thick, though more commonly the sulphide veins are attenuated and in the range of millimetres thick following the main foliation. The frequency of veins or sulphide bands varies on the scale of metres and tens of metres, where copper grades may range >0.6% over thicknesses of tens of metres with lower grades or barren zones in between. Molybdenite, pyrite and pyrrhotite may accompany the chalcopyrite, though in much lower levels.

**Figure 31: Simplified project geology**



Source: Company reports

**Figure 32: Deposit and prospect locations**



Source: Company reports

**Resources and Reserves**

CVV’s current JORC Mineral Resource was reported in November 2021 and totals 1.18Bt @ 0.24% Cu (and 48ppm Mo) for 2.84Mt of contained copper at a 0.1% Cu cut-off. The deposit has a low cut-off grade i.e. it has a low threshold grade above which the deposit can be economically mined, and is therefore a low grade deposit. Investors tend to get held up on low grade deposits without fully understanding that a deposit’s grade is dictated by its economic cut-off. The Caravel deposits have a low mining cost owing to the near 1:1 strip ratio and therefore have a low threshold grade above which they can be mined economically.

The resource is spread across three deposits. Bindi makes up 74% of the total resource, Dasher is 24% and Opie is just 2%. Total Measured and Indicated resources comprise 60% of the resource with Inferred making up the other 40%. No oxide material is reported as part of the resource.

The project has an Ore Reserve of 583Mt @ 0.24% Cu for 1.42Mt of contained copper at an average strip ratio of 1.3:1, which includes all pre-strip. The reserve underpins the July 2022 PFS and is based off a 27.8Mtpa plant throughput assumption. Given the latest PFS Update now assumes 27Mtpa, we could expect minor tweaks to the reserve in the DFS.

The Bindi deposit comprises 79% of the reserve with Dasher making up the remaining 21%. Proven reserves comprise 20% of the total reserve with Probable making up 80%.

**Figure 33: Caravel Copper Project resource (0.1% Cu cut-off)**

	Mt	Cu%	Cu kt
<b>Bindi</b>	<b>903</b>	<b>0.23</b>	<b>2,081</b>
Measured	105	0.27	284
Indicated	424	0.23	976
Inferred	373	0.22	820
<b>Dasher</b>	<b>257</b>	<b>0.27</b>	<b>681</b>
Measured	0	0.00	0
Indicated	132	0.28	369
Inferred	125	0.25	312
<b>Opie</b>	<b>22</b>	<b>0.29</b>	<b>63</b>
Measured	0	0.00	0
Indicated	18	0.29	52
Inferred	4	0.30	11
Total Measured	105	0.27	284
Total Indicated	574	0.24	1,397
Total Inferred	501	0.23	1,143
<b>Total - Resources</b>	<b>1,181</b>	<b>0.24</b>	<b>2,824</b>

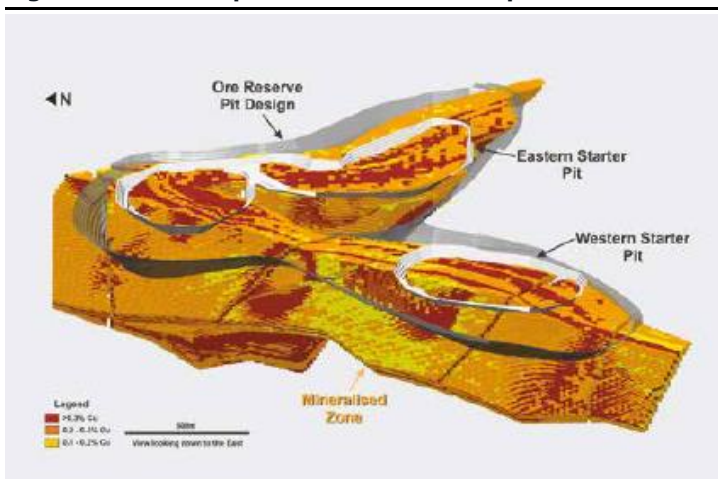
Source: Company reports

**Figure 34: Caravel Copper Project reserve**

	Mt	Cu%	Cu kt
<b>Bindi</b>	<b>475</b>	<b>0.24</b>	<b>1,135</b>
Proven	105	0.27	285
Probable	370	0.23	850
<b>Dasher</b>	<b>108</b>	<b>0.27</b>	<b>293</b>
Proven	0	0.00	0
Probable	108	0.27	293
Total Proven	105	0.27	285
Total Probable	478	0.24	1,143
<b>Total - Reserves</b>	<b>583</b>	<b>0.24</b>	<b>1,427</b>

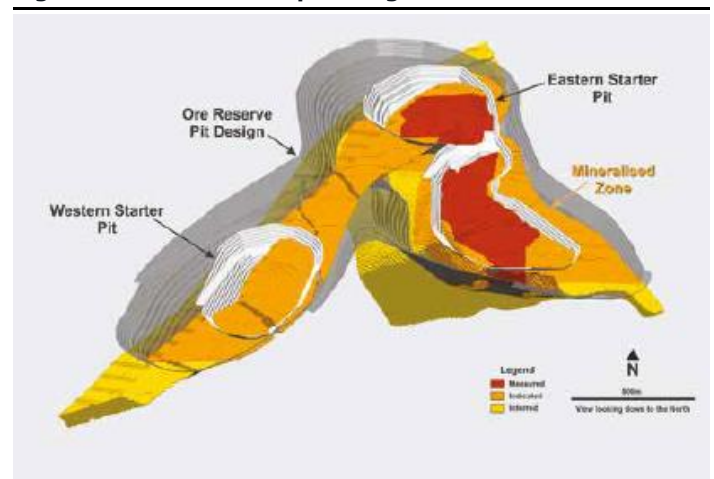
Source: Company reports

**Figure 35: Bindi deposit starter and main pits**



Source: Company reports

**Figure 36: Ore Reserve pit designs**



Source: Company reports

### July 2022 PFS and September 2022 PFS Update

CVV published a Prefeasibility Study (PFS) for the Caravel Copper Project in July 2022. The PFS was underpinned by the maiden reserve of 583Mt @ 0.24% Cu for 1.42Mt of contained copper. This reserve accounts for 81.6% of the project's 28-year life with Inferred resources making up the remaining 18.4%, weighted to the backend of LOM. On averaging, 2% of Inferred material is mined in the first 20 years of processing.

Initially, the PFS assessed a dual train, 27.8Mtpa plant to produce ~62ktpa of copper in concentrate. The processing flowsheet comprised crushing then grinding by Semi-Autogenous Grinding (SAG) and ball mill with a pebble crushing circuit before a conventional rougher and cleaning flotation, thickening and filtering. CVV and its PFS engineers (Ausenco) undertook further evaluation post-release of the PFS, and in September 2022 provided a PFS Update which achieved considerable capital and operational costs savings through consolidation of the dual train plant into a single 27Mtpa train and adoption of High-Pressure Grinding Rolls (HGPR) to replace the SAG Mills, and the inclusion of Coarse Particle Flotation (CPF).

The result sees CVV move into DFS work with the view of utilising a single train 27Mtpa to produce 60ktpa of copper in concentrate. Costs savings from the initial PFS amount to a A\$105m saving in the processing plant and site infrastructure, and a A\$13m saving in pre-strip costs. This brings total initial capex down to A\$1,584m (from A\$1,702m). Operating costs savings have moved processing costs from US\$1.01/lb payable copper to US\$0.82/lb, meaning overall C1 has fallen from US\$1.72/lb to US\$1.54/lb payable copper.

**Figure 37: Initial capital**

Initial Capital Expenditure A\$m	PFS Update	PFS
	(September 2022)	(July 2022)
	Year 0 to 3	Year 0 to 3
<b>Process plant and site infrastructure</b>		
Plant direct costs	585	680
Site infrastructure	112	113
Tailings storage management	51	51
Water supply	66	69
Owner costs and indirects	176	172
Contingencies	101	111
Mine infrastructure	8	8
	<b>1,100</b>	<b>1,205</b>
Mining equipment	309	309
Mining pre-strip	176	189
<b>Total Initial Capital Expenditure</b>	<b>1,584</b>	<b>1,702</b>

Source: Company reports

**Figure 38: LOM operating costs**

Life of Mine Unit C1 Costs	PFS Update	PFS
	(September 2022)	(July 2022)
	US\$/lb Sold	US\$/lb Sold
Mining Costs	0.44	0.44
Processing Cost	0.82	1.01
Site & General Administration	0.09	0.09
Logistics	0.21	0.21
Treatment and Refining Costs	0.16	0.16
By-Product Credits	(0.19)	(0.19)
<b>Total</b>	<b>1.54</b>	<b>1.72</b>

Source: Company reports

**Figure 39: LOM Economics**

Life Of Mine Financial Economics (A\$)	PFS Update	PFS
	(September 2022)	(July 2022)
Cu Revenue (net of payability and TCs/RCs)	\$17.6B	\$17.555B
Net cash flow (pre-tax)	\$5.6B	\$4.622B
Pre-tax NPV (7% discount rate)	\$1.5B	\$1.066B
	(range from 1.3B to 1.7B)	
Pre-tax IRR	18%	14.7%
	(range of 16% to 20%)	
Capital payback period	5.6 years	6.8 years

Source: Company reports

**PFS and PFS Update outcomes**

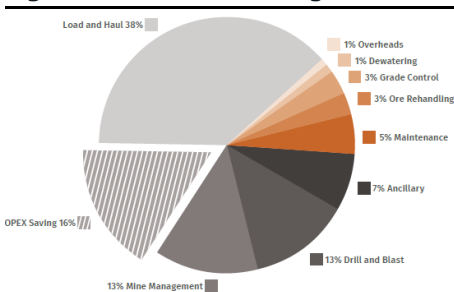
CVV is working towards delivery of a DFS in 1H24. The following PFS and PFS Update parameters will be further assessed, evaluated, and tested in the DFS.

**Mining**

CVV is proposing an 'owner-miner' model for the Caravel Copper Project where it anticipates a conventional open-pit using ACE technologies (automation, communication and electrification) including diesel-electric haul trucks and electric drills and shovels. The owner-mining model allows for the use of ACE technologies as they are currently not offered by typical contractors. This technology allows for low mining costs. CVV has outlined a number of areas where ACE will improve safety and deliver cost savings (Figure 40):

- Tyre life – increase of 1,000-hour tyre life.
- 15% reduction in maintenance costs and reduced damage.
- Greater efficiencies through increased speeds with haulage fleet reduced by 6 trucks versus conventional a self-drive model.
- Use of cable powered electric shovels and drills reduces diesel consumption over the LOM by ~40%.

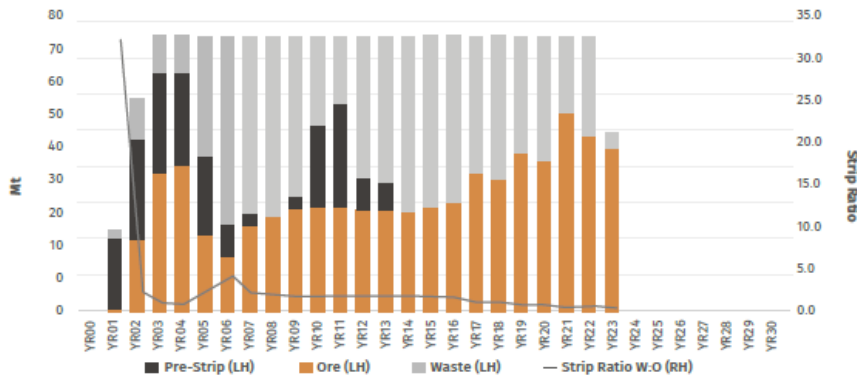
**Figure 40: ACE cost savings**



Source: Company reports

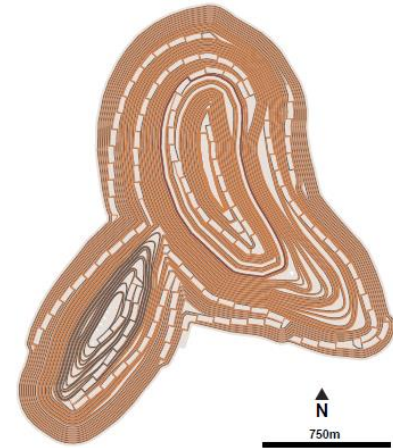
An overall LOM strip ratio of 1.3:1 includes pre-strip. Waste pre-stripping predominately occurs in Years 1-5 and again in Years 10-13 as multiple pits are established. Over the 28-year project life the Bindi and Dasher deposits will produce 715Mt of ore at an average grade of 0.24%. Mining of the current resources is assumed to finish in Year 26 after which time the mill is fed from stockpiles.

**Figure 41: Mining schedule**



Source: Company reports

**Figure 42: Bindi five stage pit design**

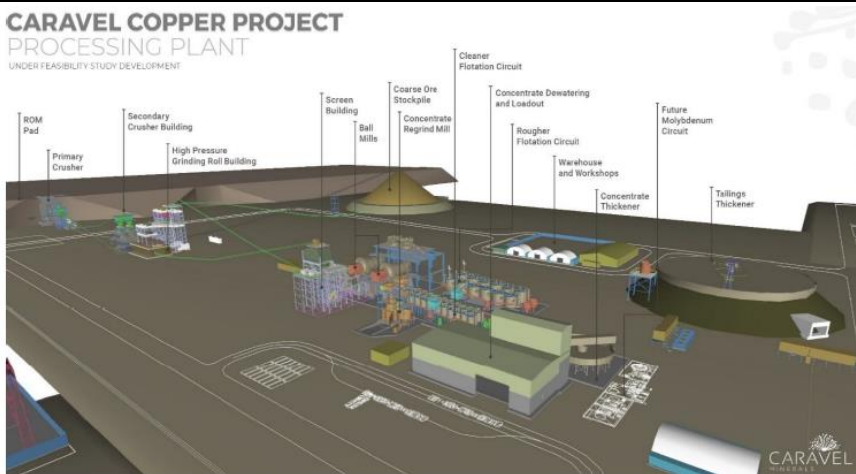


Source: Company reports

**Metallurgy and mineral processing**

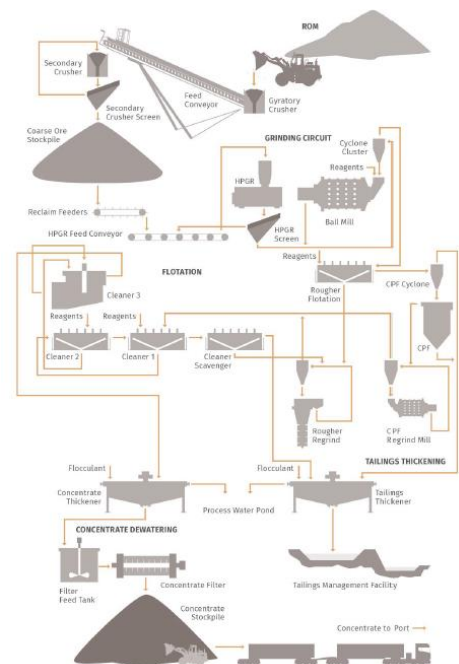
CVV is now advancing with a consolidated, single train, 27Mtpa throughput utilising HPGR in the primary comminution circuit and CPF in the flotation circuit. Metallurgical recoveries are modelled at 92% for a two-stage crush – grind - flotation. CVV has undertaken recent testwork which concluded that two HPGRs will be incorporated into the overall crushing and grinding circuit, consisting of a primary gyratory crusher, secondary cone crushers, HPGRs and ball mills. CVV has stated that the project is evaluating the merits of selecting industry proven HPGRs sized at 2.4m diameter, each with 8MW drives.

**Figure 43: Processing plant design**



Source: Company reports

**Figure 44: Proposed flowsheet**



Source: Company reports

**Infrastructure and services**

CVV expects to deliver copper concentrate, by road, to the Port of Bunbury, 330km to the south. The ports around Perth have been discounted on account of congestion and limited space. The presence of existing roads makes Bunbury a priority choice over Geraldton.

CVV expects that the mine will utilise power supply from the existing regional electrical grid adjacent to the site within the South West Interconnected Network’s North Country subregion. The maximum power requirements are estimated to be 125MW. Studies indicate this can be supplied through an increase to transmission energisation of the Moora to Wongan Hills 132KV capacity power line and the construction of a new substation.

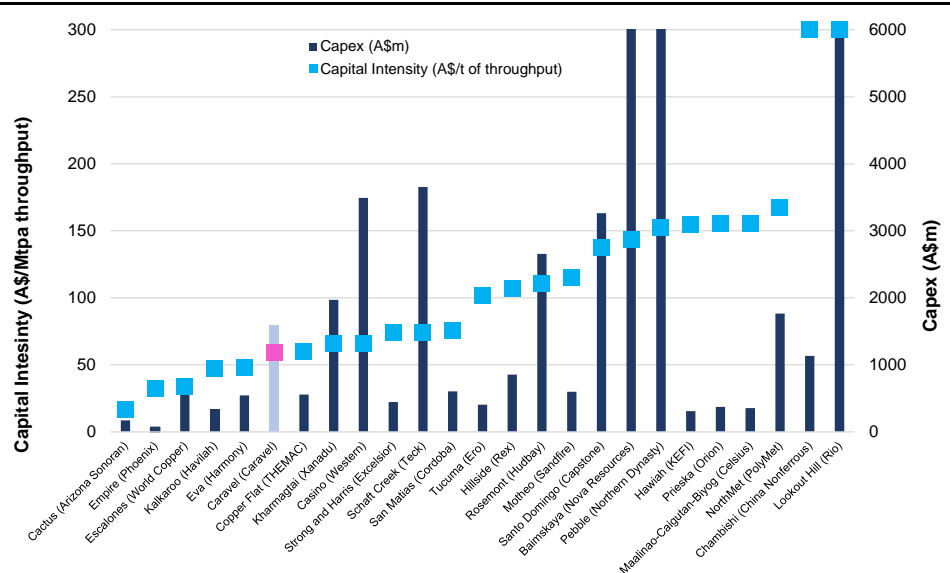
CVV will secure water supply for the project via a combination of developing new water resources and purchasing existing allocations. A remote borefield will be developed and licenced to supply water to the project.

**Capital costs**

As per Figure 37 above, capital costs are estimated at \$1,100m upfront for the plant and infrastructure with an additional A\$309m required for the mining fleet and A\$176m for pre-stripping. The PFS outlines a further A\$291m for pre-strip during the LOM and A\$182m to be spent of tailings storage management. LOM sustaining capital is estimated at A\$991m.

We have compared CVV’s capital costs to similar, large scale, global developments. We conservatively model an additional 10% pre-production capital for the Caravel Copper Project.

**Figure 45: Global, large scale copper development (>2Mtpa) capex and capital intensity**



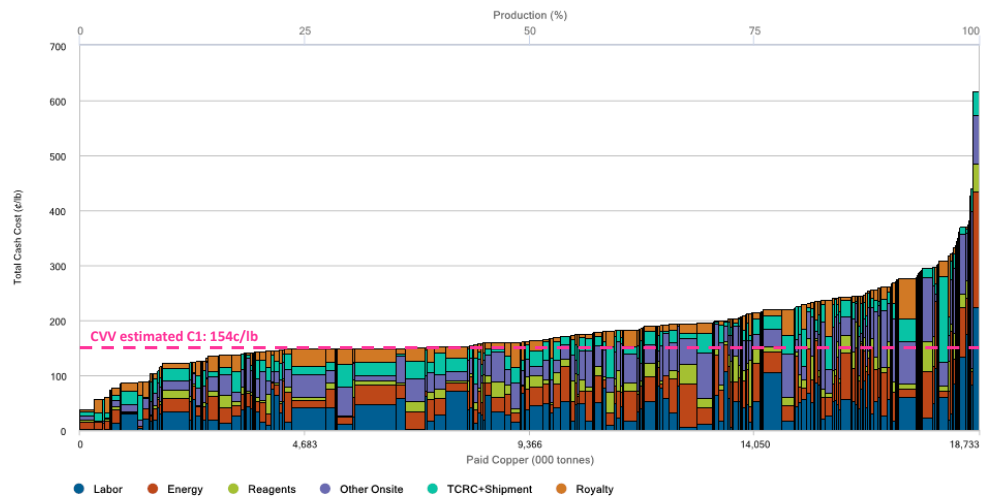
Source: S&P Global, Canaccord Genuity

**Operating costs**

Owing to the use of automation, CVV expects a low C1 of US\$1.54/lb payable copper. According to data obtained from S&P Global, this would place Caravel in the second quartile of the 2022 copper producer cost curve as shown in Figure 46. As per Figure 38, operating costs also benefit from a US\$0.19/lb by-product credit owing to production of silver and gold. We await further information before including additional credits for molybdenum (see below - Potential enhancements in the DFS).

We conservatively model an additional 5% on unit operating costs for the Caravel Copper Project, which translates to our modelled C1 costs being 12% higher than CVV.

**Figure 46: 2022 copper cost curve with CVV C1 overlaid**



Source: S&P Global

### Royalties

We model the standard WA Government royalty of 5% on concentrates.

### Potential enhancements in the DFS – molybdenum circuit

CVV will assess the inclusion of a molybdenum (Mo) circuit in the DFS. The Caravel resource contains ~38kt of molybdenum, which has not previously been assessed in studies. CVV has recently and will continue to assess potential recovery of Mo to a concentrate. On our assumptions, if 60% can be recovered with payabilities of 75% on a US\$20/lb sale price and upfront capital of A\$50m for the Mo circuit, an additional 7c could be added to our CVV valuation. We await further information before fully modelling this scenario.

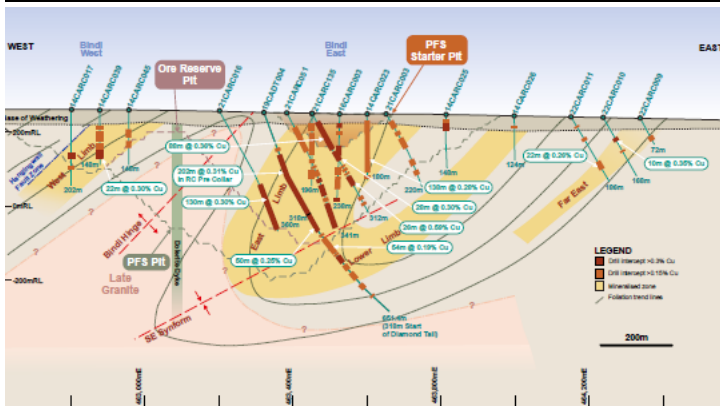
### Exploration

Although the resource is very large in scale, CVV sees opportunity for further growth. There are both in-mine (extensional) opportunities as well as near-mine targets within the project area.

All three deposits remain open with potential to extend at depth and along strike. Opie has received limited focus while Dasher is open to the south. Bindi’s East Limb offers low hanging fruit in our opinion, with potential for a fold repeat further to the east. Structural interpretation indicates a synformal fold structure, termed the SE Synform, which may create a fold repeat of the Bindi East limb toward the east, as shown in Figure 47 and Figure 48. This potential eastern extension has been termed the Lower Limb.

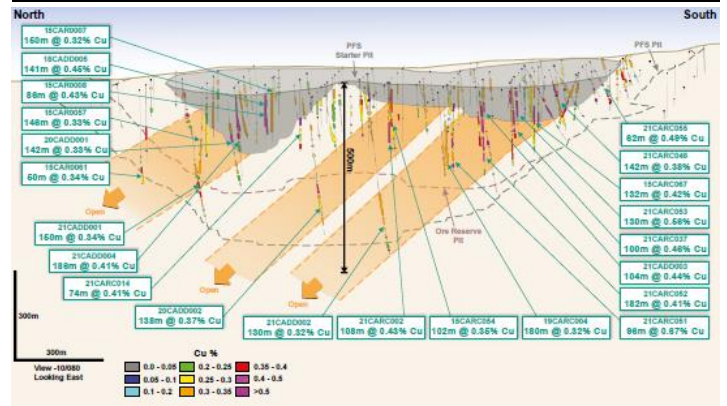
Although not its number priority, CVV will also systematically explore near-mine prospects such as Ninan, Ninan North, Dasher East and Kurrali (see Figure 32).

**Figure 47: Bindi East Limb cross section showing the SE Synform**



Source: Company reports

**Figure 48: Bindi East long section with north plunging shoots**



Source: Company reports

**Site visit**

Canaccord Genuity visited the Caravel Copper Project in June 2021. A day trip from Perth was spent touring the proposed plant and open-pit site at Bindi as well as the drilling activities and core processing facility.

**Figure 49: Drilling in the paddock at Bindi**



Source: Canaccord Genuity

**Figure 50: Close up of RC drilling**



Source: Canaccord Genuity

**Figure 51: Infill drilling activities**



Source: Canaccord Genuity

**Figure 52: Site preparation**



Source: Canaccord Genuity

**Figure 53: Mineralised drill core**



Source: Canaccord Genuity

**Figure 54: Core processing facilities**



Source: Canaccord Genuity

## Investment risks

### **Financing risks**

As a pre-production company with no material income, CVV is reliant on equity and debt markets to fund development of its assets. Total development and working capital requirements are subject to establishment of completion of further mining studies. There are no guarantees that studies will result in a positive investment decision. Further, we can make no assurances that accessing these markets will be done without further dilution to shareholders.

### **Exploration risks**

Exploration and development is subject to a number of risks and can require a high rate of capital expenditure. Risks can also be associated with conversion of inferred resources and lack of accuracy in the interpretation of geochemical, geophysical, drilling and other data. No assurances can be given that exploration will delineate further mineral resources nor that the company will be able to further convert the current mineral resource into additional minable reserves.

### **Operating risks**

If and when in production, the company will be subject to risks such as plant/equipment breakdowns, metallurgical (meeting design recoveries within a complex flowsheet), materials handling and other technical issues. An increase in operating costs could reduce the profitability and free cash generation from the operating assets considerably and negatively impact valuation. Further, the actual characteristics of an ore deposit may differ significantly from initial interpretations which can also materially impact forecast production from original expectations.

### **Commodity price and currency fluctuations**

As with any mining company, CVV is directly exposed to commodity price and currency fluctuations. Commodity price fluctuations are driven by many macroeconomic forces including inflationary pressures, interest rates and supply and demand factors. These factors could reduce the profitability, costing and prospective outlook for the business.

## Directors and key management

### **Wayne Trumble – Non-Executive Chairman**

Mr Trumble is a senior board executive with 35 years of industry expertise in mining, electricity, investment and construction. For the 12 years as the Executive General Manager of Griffin Power, he led Griffin's move from fuel supplier to electricity generator through the execution and operation of Griffin's \$1.2 billion Bluewaters coal-fired project, providing 436 MW of base load power in Western Australia. Mr Trumble has extensive project development and construction experience in WA including all aspects of regulatory, contractual and financing requirements. Mr Trumble was also the Managing Director of TransAlta Energy where he was responsible for the commissioning and operation of the 105MW Parkeston Power Station at Kalgoorlie and is currently a strategic energy advisor to Newmont Mining.

### **Don Hyma – Managing Director**

Mr Hyma has over 30 years of international mineral resource project development experience across several countries including Canada, Chile, New Caledonia and Australia. His previous roles include Director Projects for Fortescue Metals Group, Technical Director at Mitsui, Vice-President Projects for the Iron Ore Company of Canada and General Manager Projects for Rio Tinto Iron Ore and he held senior project management roles at Falconbridge Limited (now Glencore). Over the last two years, Mr Trumble has been an advisor to the Caravel Board on the Caravel Copper Project feasibility studies and implementation strategies and most recently was Managing Director at Adelaide-based, ASX-listed Australian Rare Earths. Mr Hyma holds a Bachelor of Science in Mining Engineering and a Master of Science in Mineral Processing along with an International Executive Management Diploma from INSEAD in France and Singapore. He is also a Fellow of the Australian Institute on Mining and Metallurgy (AusIMM).

### **Alasdair Cooke – Executive Director**

Mr Cooke has more than 30 years of experience in the mining industry and over 15 years managing public resource companies. He is a qualified geologist with a track record of successful exploration and project development. He is a founding partner of Perth-based investment and technical services company Mitchell River Group (MRG). MRG has established a number of successful mining projects including greenfield mines in Australia, Africa and South America. Mr Cooke is the chairman of African Energy Resources Ltd and a director of EVE Investments.

### **Richard Monti – Non-Executive Director**

Mr Monti has a successful 34-year career in the international mineral resource industry and brings to Caravel broad project development and corporate experience. Mr Monti is currently on the board of ASX-listed companies Alto Metals, Black Dragon Gold, Zinc of Ireland and Pacifico Minerals, and is the principal of Terracognita supplying technical, commercial and corporate advice to resource industry companies.

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## Investment Recommendation

Date and time of first dissemination: March 28, 2023, 23:53 ET

Date and time of production: March 28, 2023, 23:53 ET

## Target Price / Valuation Methodology:

Caravel Minerals Limited - CVV

Our NPV<sub>12%</sub> is informed by the Caravel PFS and subsequent update, is modelled on a fully-diluted basis and risked 80% to account for the early stage (albeit very detailed) nature of the studies. We have assumed a funding scenario which involves a 25% project sell down with the balance of capital covered through a debt and equity mix. We risk this financing scenario to 75%.

## Risks to achieving Target Price / Valuation:

Caravel Minerals Limited - CVV

**Financing risks:** As a pre-production company with no material income, CVV is reliant on equity and debt markets to fund development of its assets. Total development and working capital requirements are subject to establishment of completion of further mining studies. There are no guarantees that studies will result in a positive investment decision. Further, we can make no assurances that accessing these markets will be done without further dilution to shareholders.

**Exploration/development risks:** Exploration and development is subject to a number of risks and can require a high rate of capital expenditure. Risks can also be associated with conversion of inferred resources and lack of accuracy in the interpretation of geochemical, geophysical, drilling and other data. No assurances can be given that exploration will delineate further mineral resources nor that the company will be able to further convert the current mineral resource into additional minable reserves.

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**Commodity price and currency fluctuations:** As with any mining company, CVV is directly exposed to commodity price and currency fluctuations. Commodity price fluctuations are driven by many macroeconomic forces including inflationary pressures, interest rates and supply and demand factors. These factors could reduce the profitability, costing and prospective outlook for the business.

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Rating	Coverage Universe		IB Clients
	#	%	%
Buy	602	63.57%	23.26%
Hold	159	16.79%	8.81%
Sell	16	1.69%	0.00%
Speculative Buy	157	16.58%	42.04%
	947*	100.0%	

\*Total includes stocks that are Under Review

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**NOT RATED:** Canaccord Genuity does not provide research coverage of the relevant issuer.

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**12-Month Recommendation History** (as of date same as the **Global Stock Ratings** table)

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Canaccord Genuity, and its associates, holds an option position in CVV.AU.

Canaccord Genuity received a fee for its role as Lead Manager to Caravel's \$12m equity raising at \$0.20 on 16 November 2022.

As of the month end immediately preceding the date of publication of this research, or the prior month end if publication is within 10 days following a month end, Canaccord Genuity or its affiliated companies, holds an options position in Caravel Minerals Limited the details of which are contained below:

Ticker	Quantity	Strike	Date of Expiry
CVV	2,000,000	\$0.30	03/03/2024

**Caravel Minerals Limited Rating History as of 03/28/2023**



— Closing Price — Price Target

Buy (B); Speculative Buy (SB); Sell (S); Hold (H); Suspended (SU); Under Review (UR); Restricted (RE); Not Rated (NR)

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