ASX ANNOUNCEMENT

17/09/2024



ASX Code: RVT

CORPORATE PRESENTATION

Richmond Vanadium Technology Limited (ASX: RVT) is pleased to provide the attached presentation which will be delivered at The Melbourne Mining Club's Cutting Edge Series tonight, Tuesday, 17 September 2024.

The Melbourne Mining Club is a not-for-profit joint venture between the Minerals Council of Australia (MCA) and The Australasian Institute of Mining and Metallurgy (AusIMM) to promote the minerals industry and offer a networking forum for the industry.

The Melbourne Mining Club's commitment to the resources sector is highlighted in their Cutting Edge events, which provide a forum for small- to mid-cap exploration and development companies to showcase their activities, management and business strategies. Participants gather to hear from Australia's innovative and emerging mining industry businesses within the Swanston Room at the Melbourne Town Hall.

This announcement has been authorised by the Board of Directors of RVT.

For more information:

Jon Price
Managing Director

E: info@richmondvanadium.com.au

Ph: +61 8 6141 9500

Ben Creagh

Media & Investor Relations

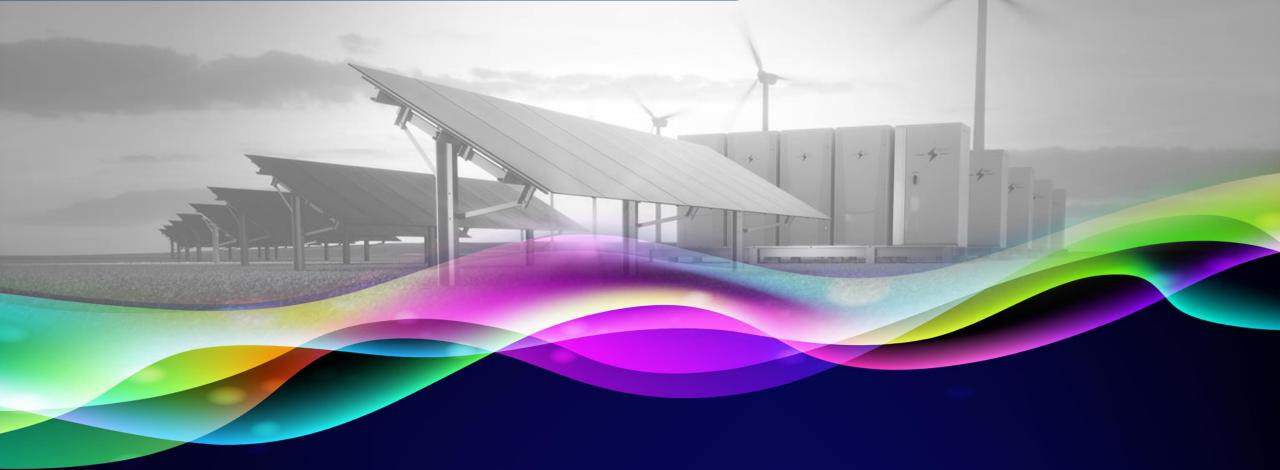
e: benc@nwrcommunications.com.au

M: +61 (0) 417 464 233

POWERING THE FUTURE

ASX: RVT





MMC INVESTOR PRESENTATION



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IMPORTANT NOTICE AND DISCLAIMER

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- are necessarily based upon a number of estimates and assumptions that, while considered reasonable by the Company, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies;
- involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from
 estimated or anticipated events or results reflected in such forward-looking statements; and may include, among other things,
 statements regarding estimates and assumptions in respect of prices, costs, results and capital expenditure, and are or may
 be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions.

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The words "believe", "expect", "anticipate", "indicate", "contemplate", "target", "plan", "intends", "continue", "budget", "estimate", "may", "will", "schedule" and similar expressions identify forward looking statements.

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COMPETENT PERSON STATEMENT

Where the Company refers to the results of the Prefeasibility study, the Mineral Resource Estimate and the Ore Reserve Estimate as outlined in this presentation and as disclosed in the Independent Technical Assessment Report in the Company's Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 and released to the ASX on 9 December 2022, it confirms that it is not aware of any new information or data that materially affects the information included in that Report and that all material assumptions, including the forecast financial information, and technical parameters continue to apply and have not materially changed.

Information on historical exploration results and Mineral Resources and Ore Reserves presented in this presentation, together with JORC Table 1 information, is contained in the Company's Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 and released to the ASX on 9 December 2022.



VANADIUM – A CRITICAL MINERAL FOR THE FUTURE



- Named after Norse Goddess of beauty Vanadis
- 22nd most abundant element in the earth's crust
- Found in over 65 minerals in nature
 - titanomagnetite, hydrocarbons and oxide sediments
- Unique chemical and physical properties
 - conductor of electricity but insulator of heat
 - corrosion resistant and malleable
 - many oxidation states most used is V₂O₅



VANADIUM USES – FROM STEEL & ALLOYS TO GRID SCALE BATTERIES

- ~90% used in steel making it stronger and lighter ¹
- Alloys are used in aerospace, weapons and dentistry
- Superconducting alloys used in magnets
- Also used in ceramics, glass coatings and jewellery
- Acts as a catalyst in many reactions
- Increasing use in grid scale stationary flow batteries



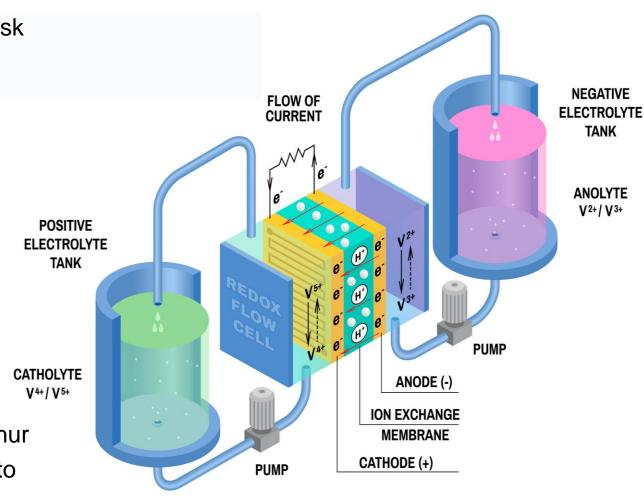






THE VANADIUM REDOX FLOW BATTERY (VRFB)1

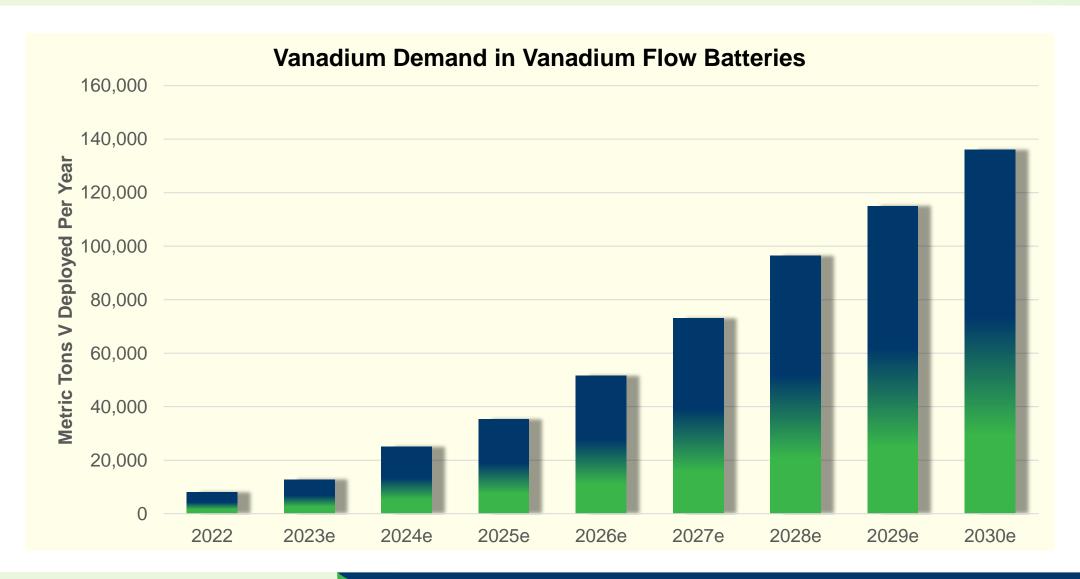
- Safe non-flammable and no cross-contamination risk
- Long life (+20yrs) and scalable to any capacity
- Full depth of discharge and wide temperature range
- Recyclable electrolyte can be re-used indefinitely
- Cost competitive over life of battery
- Ideally suited to long duration stationary grid scale applications
- China's national energy administration banned
 the use of ternary lithium batteries and sodium-sulphur batteries for medium and large energy storage due to safety issues²



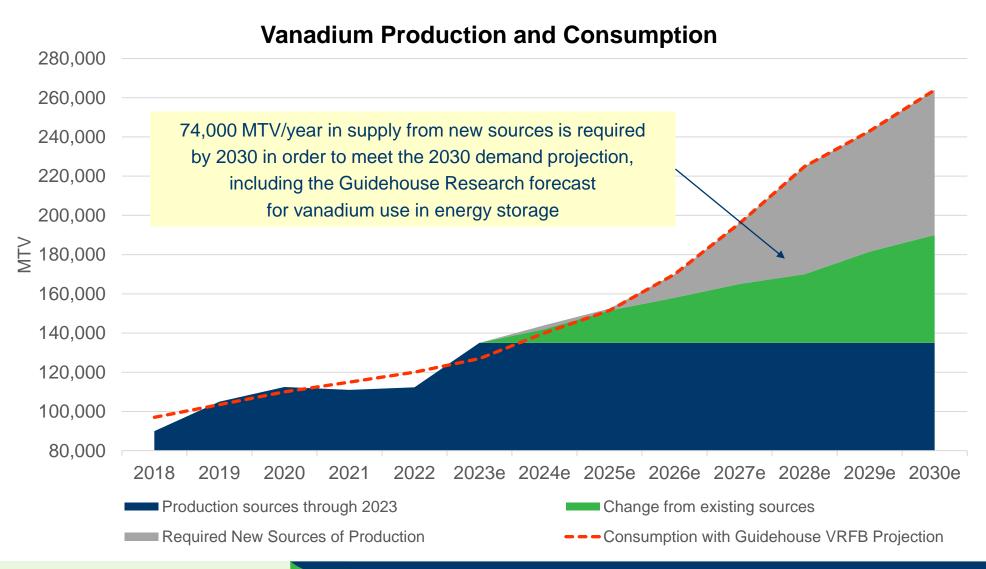




VANADIUM DEMAND GROWTH¹

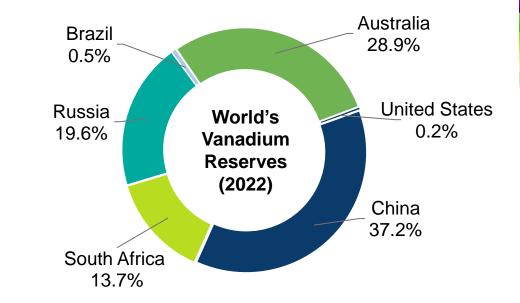


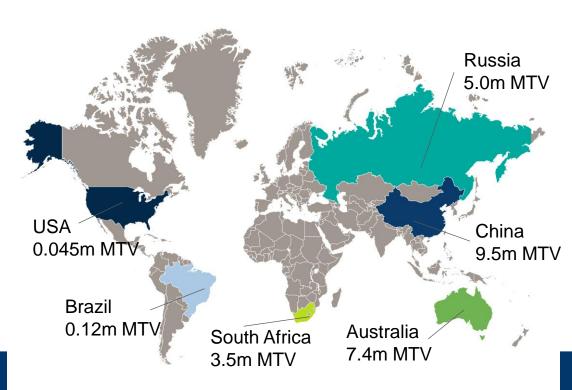
MEETING FUTURE VANADIUM DEMAND



VANADIUM SUPPLY¹

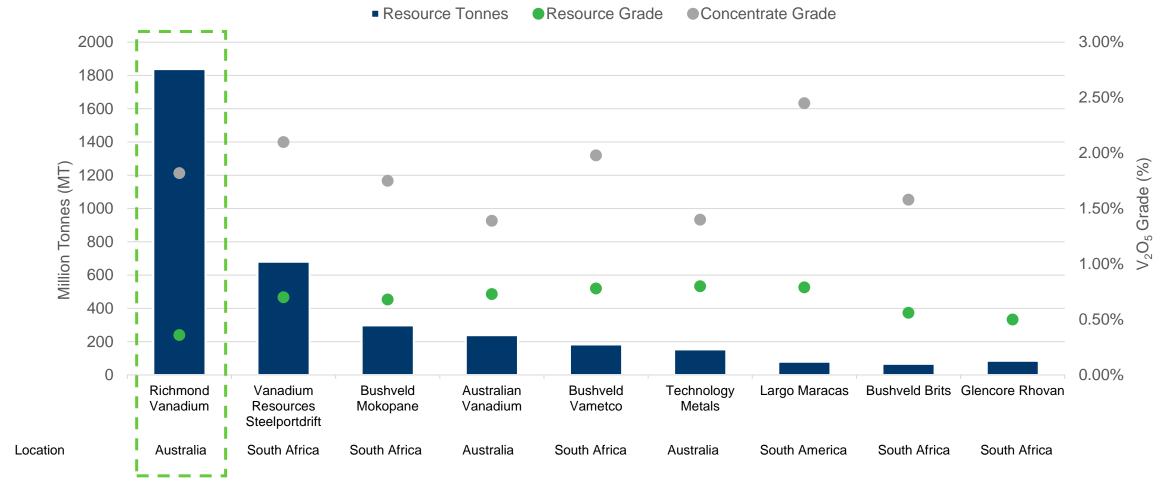
- Current production ~140ktpa 90% from 4 countries
 - China, Russia, South Africa and Brazil
- Production from secondary sources
 - steel slag, stone coal, fly ash
- Production from primary sources
 - titanomagnetite ore
- Current global resources 63Mt
- Current global reserves 26Mt
- Australia has second highest vanadium reserves but produces no vanadium





¹ Refer "Mineral Commodity Summaries 2023", US Geological Survey, 31 January 2023

GLOBAL PRIMARY MINERAL RESOURCES

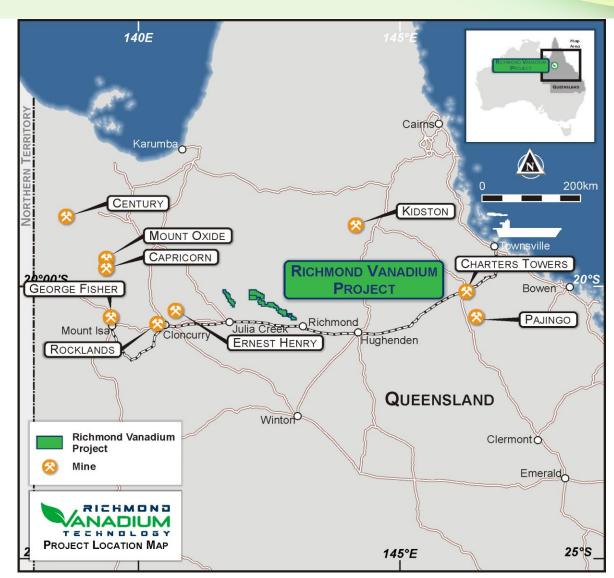


The above chart compares Mineral Resources reported under different codes and companies at different stages of development. Only Resources with a cut-off grade of ≥0.30% and an average resource grade of >0.35% are shown. All comparative data has been sourced from public company disclosures – please refer to Appendix 3 "Peer Comparison Table" attached to this presentation.

RICHMOND VANADIUM PROJECT OVERVIEW¹

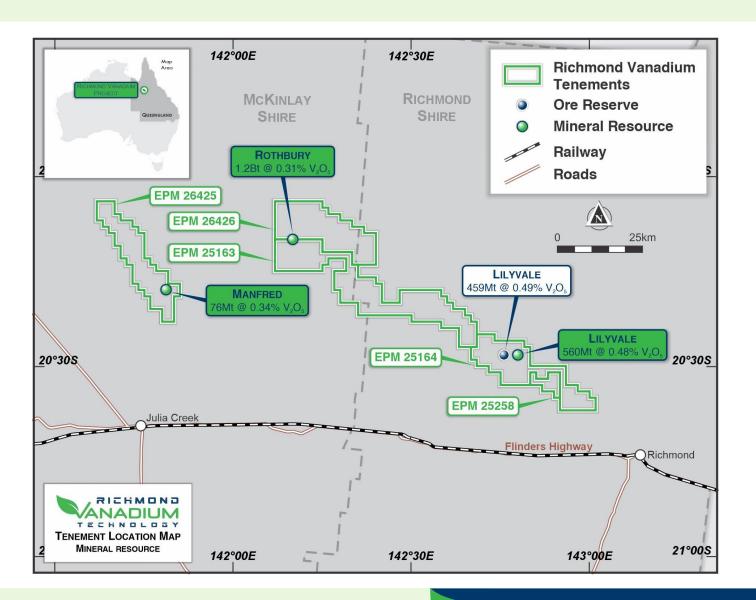
- Mining friendly jurisdiction within the North-West Minerals Province of Queensland (Australia)
- Close to major infrastructure and services
- PFS completed in 2019, updated in 2021
- Declared a Co-ordinated Project in 2022
- BFS underway for completion in 2025
- Statutory approvals well advanced
- EIS Draft submitted to QLD Government's OCG
- Targeting development decision in 2025

Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022, Appendix 2 "Summary of key PFS Outcomes" attached to this presentation, and ASX announcements entitled "Epic appointed to deliver EIS" dated 9 Mar 2023, "DRA Global appointed as engineering services consultant for Richmond Vanadium Bankable Feasibility Study", dated 21 June 2023, "BFS Update, dated 16 January 2024 and "Draft Environmental Impact Statement Submitted", dated 6 August 2024.





LARGEST MINERAL RESOURCE OF ITS KIND IN THE WORLD1



Global Mineral Resource estimate of

1.8Bt @ 0.36% for 6.65Mt V₂O₅ at 0.30% cut-off

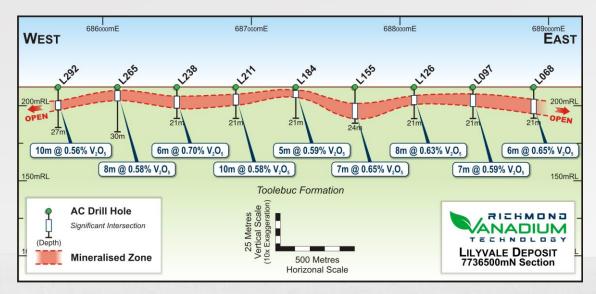
Ore Reserve estimate of

459Mt @ 0.49%for 2.25Mt V₂O₅



SIMPLE GEOLOGY AND LOW-COST MINING¹

- Mineralisation associated with the Toolebuc formation at an average depth of 2 - 25m
- Starter pit to focus on upper mineralised zone:
 - highest grade based on drilling to date (0.52% V₂O₅)
 - free dig open cut mining with very low strip ratio (0.92)
- amenable to low-cost removal of coarse fraction to produce high grade feedstock of 1.82% V₂O₅
- waste / tailings is non-toxic







COMPARISON OF ESTIMATED PRODUCTION COST BREAKDOWN

Soft Oxide vs Titanomagnetite Vanadium Deposits

Concentrating

Recovery

to minimum 98% to meet vanadium flake standard

TITANOMAGNETITE VANADIUM DEPOSIT





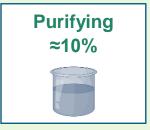




1.4 – 1.48% vanadium concentrate







SOFT OXIDE VANADIUM DEPOSIT

No Drill & Blast



No Milling



1.83% vanadium concentrate¹

No Roasting





+98.6% vanadium flake¹

MINE TO METAL TO BATTERY

An economic analysis for beneficiation to a concentrate in Australia, and a comparison of recovery offshore in China or onshore in Australia was carried out as part of the PFS. The PFS recommended that recovery to produce V₂O₅ flake be carried out offshore due to lower capital and operating costs.

Electrolyte BFS focussed on manufacture onshore production **Low impact** - with Australian shallow mining **BFS** will assess in country recovery to 99% V₂O₅ Townsville Towers Conventional **Battery** Richmond making

> The BFS will undertake further analysis of downstream recovery to be conducted in Australia (Queensland) as the preferred option due primarily to a changed government landscape. It is noted that an Australian recovery option may require government funding assistance due to the lower financial returns in this scenario. The BFS will consider further optimising the process to reduce capital costs if it was carried out in Australia as noted in the Company's Prospectus, Schedule 1 (ITAR) released to the ASX on 9 December 2022.

The process flow for electrolyte manufacture, battery making, and renewable energy storage is not a direct asset of the Company, however, it is part of the intended market to which the Company's product is to be supplied, including via a Collaboration Agreement with Rongke Power, the world's largest vanadium electrolyte and VFB manufacturer (As released to the ASX on 28 May 2024).

low-cost

concentrate

Renewable

Energy Storage

Govt support

CORPORATE SNAPSHOT

CAPITAL STRUCTURE

RVT

ASX Code

\$13.3m

Cash (as at 30/6/2024)

\$58m

Market Cap (as at 16/9/24

221.8m

Shares on Issue

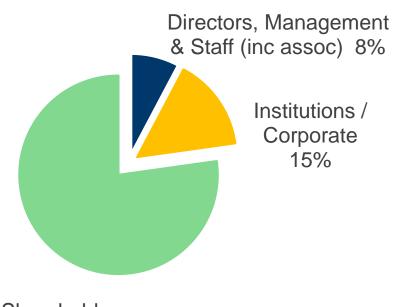
13.5m

Options on Issue¹

3.3m

Performance Rights²

KEY SHAREHOLDERS



Other Shareholders 77%



¹ Includes 6.5m director options and 6.65m Lead Manager options, all of which are escrowed for 2 years to 13 December 2024

² Includes 1.8m director performance rights which are escrowed for 2 years to 13 December 2024



ENVIRONMENTAL - SOCIAL - GOVERNANCE

Environmental

- Environmental Impact
 Statement draft submitted
 under final terms of
 reference issued March
 2023¹
- Preliminary Environmental Assessment indicated no major environmental constraints to preclude project from proceeding²

Social

- We serve as a catalyst for local economic development through transparent and respectful engagement with our local communities
- Use of local businesses civil, accommodation, services and meals

ASX on 9 December 2022

Governance

- We value accountability, transparency, fairness and responsibility for the best interests of all stakeholders
- First critical minerals project in Queensland to be declared a Coordinated Project







INVESTMENT ADVANTAGE



Location

Mining-friendly jurisdiction of Australia, close trading partner with China

Project located close to existing infrastructure including major highway and railway linked to Townsville Port



Potential

One of the largest undeveloped oxide vanadium resources in the world, capable of supporting a vanadium operation for +100 years at current throughput rates¹

Vanadium consumption for VRFBs is forecast to grow at an average 20.7% a year from 2020 - 2029²



Feasibility & Environmental Approvals Underway

Pre-Feasibility Study completed in 2021 at US\$9.60/lb V₂O₅, project generates NPV10 of A\$613M with IRR of 38% and payback of 3.2 years¹

Bankable Feasibility Study underway and Environmental Impact Statement submitted³

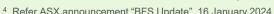


Timing

Regulatory approvals and final investment decision expected in 2025⁴

Current vanadium market dynamics are expected to grow significantly from 2026 onwards driven by the global adoption of flow batteries for long duration energy storage

³ Refer ASX announcement "Draft Environmental Impact Statement Submitted", 6 August 2024





¹ Refer RVT Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

² Outlook for selected critical minerals in Australia 2021 Report, Dept of Industry, Science, Energy & Resources, Australian Government

CONTACT US

Jon Price

Managing Director

T: +61 8 6141 9500

E: info@richmondvanadium.com.au

Ben Creagh

Media & Investor Relations

T: +61 417 464 233

E: benc@nwrcommunications.com.au

This presentation has been authorised for release by the Board of Richmond Vanadium Technology Limited



in Richmond Vanadium Technology

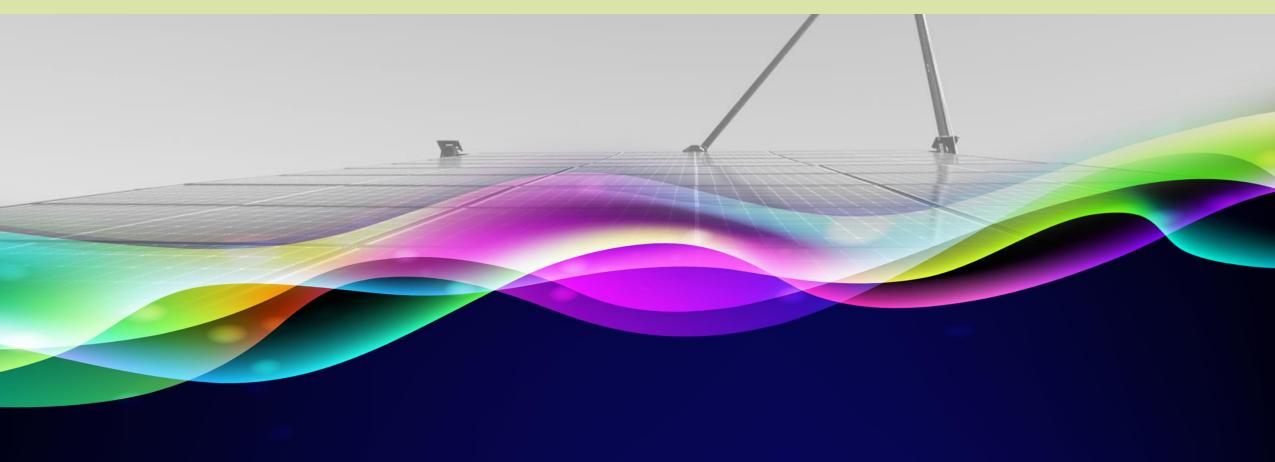
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APPENDICES





APPENDIX 1 - MINERAL RESOURCE AND ORE RESERVE ESTIMATES¹

Richmond – Julia Creek Project Mineral Resource and Contained Metal (at 0.30% V₂O₅ cut-off)

Deposit	Category	Tonnage (MT)	V ₂ O ₅ (%)	V ₂ O ₅ (MT)	
Rothbury	Inferred	1,202	0.30	3.75	
Lilyvale	Indicated 430		0.50	2.15	
Lilyvale	Inferred	130	0.41	0.53	
Manfred	Inferred	76	0.35	0.26	
Totals and Averages		1,838	0.36	6.65	

Category	Tonnage (MT)	V ₂ O ₅ (%)	V ₂ O ₅ (MT)
Proved	0.00	0.00	0.00
Probable	459.2	0.49	2.25

0.49

459.2

Richmond - Julia Creek Project

Ore Reserve (Lilyvale Deposit)

Note:

Reported in accordance with JORC Code (2012) at cut-off grade 0.3% V₂O₅

Metal content calculated using grades with 3 decimal places

Metal content varies from Mineral Resources Update by HGS (ASX:HRZ "Intermin announces world –class Vanadium Resource", dated 20 March 2018), due to arithmetic errors. The table above reflects the correct results for Manfred.

Metal content of molybdenum and nickel can be found in Table 5-1 of the ITAR (Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022)

Note:

Total

At cut-off grade (COG) of 0.3% V₂O₅

The Ore Reserve for the project is reported according to the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves, JORC

The Ore Reserve statement is based on information compiled by Dr Dawei Xu, MAusIMM



2.25

APPENDIX 2 - SUMMARY OF KEY PFS OUTCOMES¹

Measure	PFS outcome US\$9.60/lb V ₂ O ₅ (Study Price)		
Life of Mine (LOM)	(Study Frice)		
Total pit volume (Mt)	951.7		
Stripping ratio (waste: ore)	1.07		
Mined ore (Mt)	459.2		
Ore Grade V ₂ O ₅ (%)	0.49		



	PFS outcome	Sensitivity Analysis			
Measure	US\$9.60/lb V ₂ O ₅ (Study Price)	PFS outcome at US\$7.60/lb V ₂ O ₅	PFS outcome US\$8.60/lb V ₂ O ₅	PFS outcome US\$10.60/lb V ₂ O ₅	
PFS (Initial 25-year life)	(based on concentrating in Australia, refining offshore)				
Mined ore (Mt) Ore Grade V_2O_5 (%)	101.5 0.49				
Concentrate Produced V ₂ O ₅ (Mt)	19.75				
Concentrate Grade (%)	1.82				
Refining recovery average (%)	86.1				
V ₂ O ₅ 98% Flake Produced (kt)	317.5				
Capital costs (\$M)	A\$242.2				
Operating costs (\$/lb)	A\$8.66 (US\$6.32 ²)				
NPV @ 10% (\$m) (post-tax)	A\$613	A\$139	A\$376	A\$850	
Payback (years)	3.2	8.7	4.6	2.5	
IRR	38%	17%	28%	48%	

All material assumptions in the sensitivity analysis continue to apply and have not materially changed. The sensitivity analysis included in the ITAR (refer Prospectus dated 14 October 2022, ITAR at Schedule 1, Figure 10-1) shows that the project is most sensitive to the product price followed by the exchange rate. A 15% change in the concentrate product price results in a 31% - 41% change in NPV.



¹ Refer Prospectus dated 14 October 2022, at section 4 and also ITAR at Schedule 1 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022

² AUD-USD FX rate (0.73)

APPENDIX 3 – PEER COMPARISON TABLE

Company	Code	Project	Stage	Resource Category	Resource Tonnes (Mt)	Resource Grade (V ₂ O ₅ %)	Total Resource (Mt @ V ₂ O ₅ %)	Concentrate Grade	Information Source and Notes
Richmond	Richmond Richmon	Richmond –		Indicated	429.4	0.50	1,838Mt @ 0.36%	1.82	Refer Prospectus dated 14 October 2022 and Supplementary Prospectus dated 21 October 2022 released to ASX on 9 December 2022
Vanadium	ASX:RVT	Julia Creek	Development	Inferred	1,408.6	0.33	(Cutoff $V_2O_5 = 0.30\%$)		
			Measured	145.5	0.72				
Vanadium Resources	ASX:VR8	Steelportdrift	Development	Indicated	327.3	0.70	680Mt @ 0.70% (Cutoff $V_2O_5 = 0.45\%$)	2.10	ASX Announcement dated 17/11/2022 Investor Presentation
				Inferred	207.4	0.68	2-3		
Bushveld	LSE:BMN	Mokopane	Davidson and	Indicated	63.2	1.32	297Mt @ 0.68%	297Mt @ 0.68% (Cutoff $V_2O_5 = 0.30\%$) 1.75	Mokopane Vanadium project Pre-Feasibility Study 30/1/2016
DUSIIVelu	LOE.DIVIIN	Мокорапе	Development	Inferred	234.0	0.51	(Cutoff $V_2O_5 = 0.30\%$)		bushveldminerals.com/wp-content/uploads/2017/08/201602040458050.pdf
	Australian Vanadium ASX:AVL Australian Vanadium			Measured	11.3	1.14			ASX announcement dated 6/4/2022 Bankable Feasibility Study for the Australian Vanadium Project. 73.6Mt of the Indicated and 88.5Mt of the Inferred tonnes use 0.40% $\rm V_2O_5$ cutoff. All other tonnages (95.6Mt) are at 0.70% $\rm V_2O_5$ cutoff.
			Llevelonment	Indicated	82.4	0.70	239Mt @ 0.73% (Mixed cutoffs!)	1.40	
				Inferred	145.3	0.71			
				Indicated	140.1	0.74	183Mt @ 0.78%		Vametco Inferred & Indicated Mineral Resource and Ore Reserve Update for Annual
Bushveld	ushveld LSE:BMN Vametco	Vametco	netco Production	Inferred	42.6	0.90	(Cutoff = 20% magnetite)	1.98	Reporting purposes, 30/3/2022 bushveldminerals.com/wp-content/uploads/2022/04/J4590-Vametco-Mineral-Resources-and-Ore-Reserves-31-December-2021-Dated-30-Mar-2022.pdf
		Murchison	nology Development	Measured	12.1	1.00	154Mt @ 0.85% (Cutoff V ₂ O ₅ = 0.40%)	1.40	ASX announcement dated 23/11/2022 RIU Resurgence Conference 23 November 2022
Technology Metals	ASX:TMT	Technology		Indicated	51.2	0.90			
		Metals		Inferred	90.5	0.80			
	NASD:LG		aracas Production	Measured	45.95	0.83	79Mt @ 0.78% (Cutoff $V_2O_5 = 0.30\%$) 2.45	2.45	43-101Technical Report dated 10/10/2021 s29.q4cdn.com/562286712/files/doc_downloads/technical_report/marac%C3%A1s_menc hen_mine/TR_GE21_Largo_43101_16122021_Final-Version-Conformed-for-Filing.pdf
Largo Resources	O TSX:LGO	Maracas		Indicated	17.73	0.70			
	TOX.LGO			Inferred	15.52	0.74			Tien_mine/TR_GE21_Largo_43101_10122021_r mar-version-Comomicu-to-r ming.pdr
Bushveld	LSE:BMN	Brits	Evaloration	Indicated	44.9	0.56	66.8Mt @ 0.56%	1 58	Competent Persons Report on the Brits Vanadium Project North West 30/1/2020 bushveldminerals.com/wp-content/uploads/2020/01/Independent-CPR_Brits-Vanadium_January_2020_Final.pdf
Dustiveiu	LOE.DIVIIN		Exploration	Inferred	22.0	0.55	(Cutoff = 20% magnetite)		
	Glencore LSE:GLEN JSE:GLN		ovan Production	Measured	51.7	0.47	176Mt @ 0.49% (Cutoff = 15% magnetite)		Glencore 2021 Reserves & Resources report at 31/12/2021 glencore.com/.rest/api/v1/documents/fb0cafaa3ec10b90571130be41ba4270/2021-
Glencore				Indicated	33.5	0.50			
332.32/			Inferred	91.0	0.51	(2 21311 1373agouto)		GLEN_Resources-and-Reserves-report.pdf	