

Silica Sand

"Essential to World Growth"







Important information

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The information in this report that relates to Arrowsmith North, Arrowsmith Central and Muchea Probable Ore Reserves is based on data collected and compiled under the supervision of Mr David Reid, who is a full-time employee of VRX Silica. Mr Reid, BSc (Geology), is a registered member of the Australian Institute of Geoscientists and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and the activity being undertaken to qualify as a Competent Person under the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code). Mr Reid consents to the inclusion of the data in the form and context in which it appears.

Assumptions Underpinning Mineral Resources and Ore Reserves

The information in this document that relates to the estimation and reporting of the Mineral Resources and Ore Reserves for the Company's silica sand projects is extracted from releases to ASX on 28 August 2019 and 11 November 2022 (Arrowsmith North), 17 September 2019 (Arrowsmith Central), 9 May 2023 (Arrowsmith Brand), 18 October 2019 (Muchea) and 18 August 2022 (Boyatup). The Company confirms that it is not aware of any new information or data that materially affects the information included in this document and all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.



"Sand is the main material that modern cities are made of"

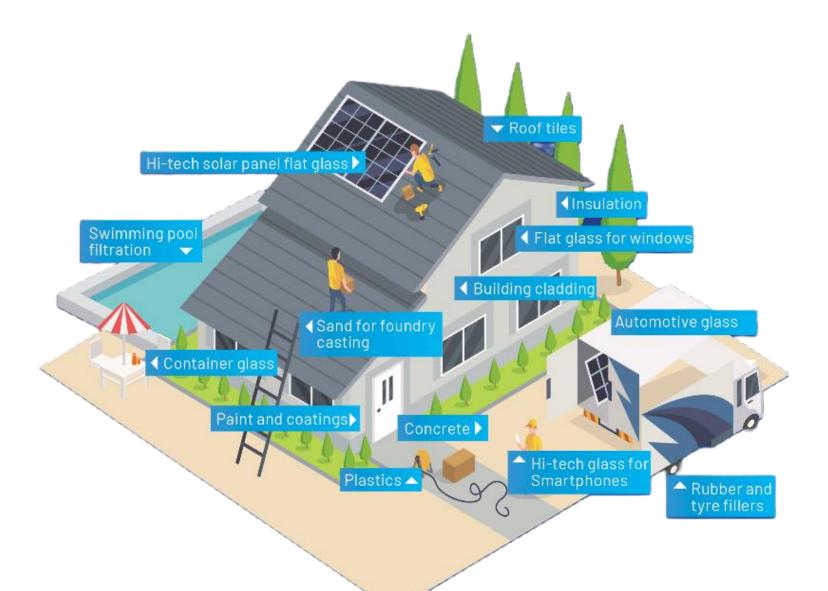
Vince Beiser

"The World in a Grain" 2018

The story of sand and how it transformed Civilisation



Silica Sand - the Second-most Consumed Material on Earth





"Humans are estimated to consume nearly 50 billion tons of sand every year"

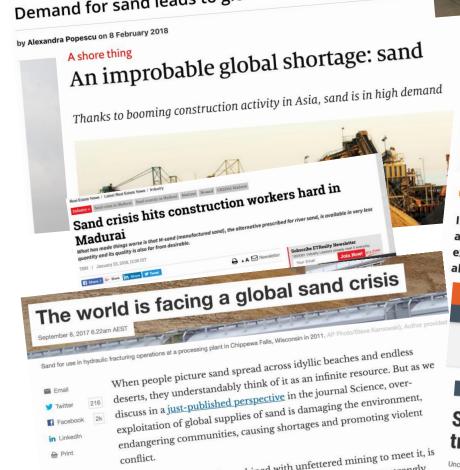
"World Construction Aggregates", 2016



VRXSILICA The world is facing a global sand crisis



Demand for sand leads to global ecological crisis





Global Shortage of Key Resource Could Doom Key Asian Infrastructure Projects, including

In the city of Kampot in southern Cambodia, the extraction of sand from an estuary on the Praek Tuek Chhu river is increasing and sand extraction is so common in Asia currently that the continent may deplete all of its sand in the not-too-distant future.



Sand mining: Growing pains of cross-border trade

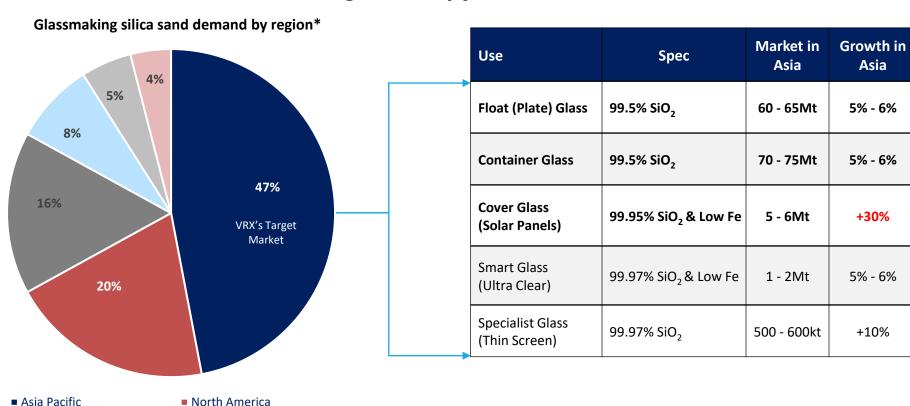


Market Outlook

Asian glass making production increasing 5-6% per year (~8 - 10Mtpa Growth)

VRX Target Market - Flat, Container, Architectural, Thin Film Glass, and;

Metal Casting/Foundry for Automobile Parts



Eastern Europe

Central and South America

■ Western Europe

Africa/Middle East

^{*}Source: Freedonia estimate



World Class Silica Sand Projects

Project development pipeline to ensure disciplined, staged development of world-class assets



- WA-based company and management team
- Most advanced non-private silica sand projects in Australia
- ☐ Five very large scale, high grade and low impurity silica sand projects each project capable of independent operation to supply processed material to diverse markets
- Simple, low impact mining and processing
- Access to established infrastructure (logistics, power, water and gas)
 - rail lines to port run adjacent to all project tenements
 - gas pipelines run adjacent to each of the project areas
- Scale of projects provides long-term opportunity for silica sand export and potential glass manufacturing and downstream industries in Western Australia



Portfolio Highlights

WA-based, pure-play silica sand company with advanced silica sand projects

100+ year production life

- 100% owner of five high value silica sand projects in Western Australia Tier 1 mining region
- ☐ Multi-decade-scale contiguous sand deposits with significant high-grade Resources
- Most-advanced non-private silica sand projects in Australia
- Mining Leases granted over four projects with permitting and infrastructure preparations well-advanced
- Arrowsmith North to lead staggered development. First production expected 2023
 followed by Muchea, Arrowsmith Central, Boyatup and Arrowsmith Brand
- Strong interest from customers in Southeast Asia at a time of diminishing global supply and increasing demand



WA Leading Silica Sand Projects

Arrowsmith North (100%)

- High-grade with exceptional financial metrics
- Close proximity to port and rail infrastructure
- Glass making and foundry
- Potential +100 year mine life:
 - JORC Proved and Probable Reserve of
 - 221Mt @ 99.5% SiO₂
- Updated BFS due Nov 2023

Muchea (100%)

- Very high-grade product with outstanding financial metrics
- Well located to key port and rail infrastructure
- Specialist glass products
- Potential +100 year mine life:
 - JORC Indicated and Inferred Resource
 - 208Mt @ 99.6% SiO₂
- BFS completed Oct 2019





Arrowsmith North

Near-term development opportunity for a world-class silica sand project

- Production expected to commence 6-8 months following final environmental approvals
- □ 221Mt Ore Reserve @99.5% SiO₂ (100-year production) (See Reserve Table)
- ☐ Grade controlled Proved Ore Reserve 9.2Mt for first 6 years of production
- Tailored 2Mtpa processing plant with patented process circuit, revised capital estimate and DFS underway
- Access to established infrastructure
 - Unused rail line (from Eneabba to Geraldton) runs adjacent to project tenements
 - ☐ Water from Yarragadee North deep aquifer
 - Access by adjacent Brand Highway
 - ☐ Hybrid gas and solar power supply

Arrowsmith North/Central Vegetation Kwongan Heath Loose sand/shallow root systems suitable for VDT



VRXSILICA Responsible Mining – the VRX Way

A made-for-purpose mining method designed around continuous rehabilitation

- VRX has developed a unique and progressive mining method for its silica sand projects
- ☐ The Vegetation Direct Transfer (VDT) method provides a rapid and comprehensive regeneration of mined areas based on continuous rehabilitation as mining progresses
- ☐ The VDT method removes a 400mm-deep sod with topsoil containing the vast majority of native flora and invertebrate fauna remaining intact
- Root structures in the loose sand are relatively shallow at 200-300mm in depth



VRXSILICA Arrowsmith North Environmental and Mining Approvals

- Confirmation by Commonwealth Department of Agriculture, Water and the Environment of accredited State approval under the EPBC Act
- ☐ State Department of Water and Environmental Regulation and Environmental Protection Authority (EPA) require PER assessment
- Environmental Scoping Document (ESD) approved in March 2022
- ☐ Environmental Review Document (ERD) lodged in April 2022 and amended June 2022 and again February 2023
- ☐ ERD published by EPA for Public Review period ending 16 July 2023
- Mining proposal for DMIRS and Works Approval for DWER lodged for assessment in parallel with ERD



Muchea

Large scale, world class high-grade and low impurity silica sand project

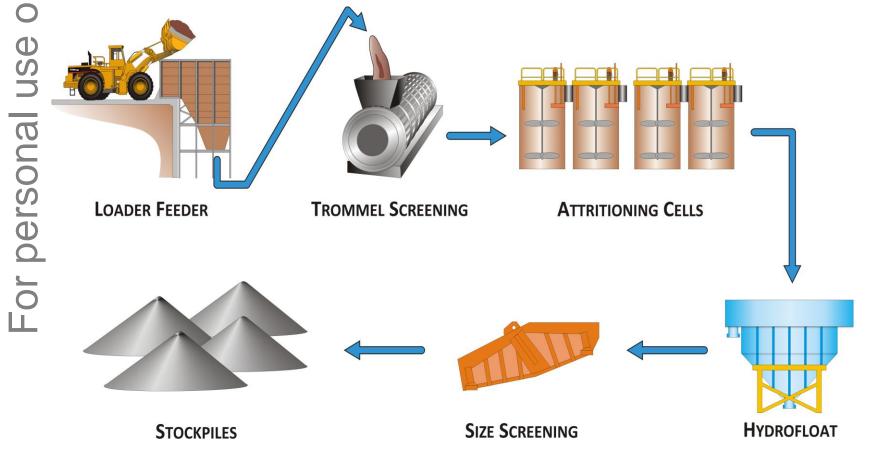
- Production to follow Arrowsmith North subject to EPA approval
- Utilise VDT and duplicate plant
- Access to established infrastructure
 - Underutilised railway connects to Kwinana (100km)
 - ☐ Grid power
 - ☐ Water from Yaragadee deep aquifer
 - Adjacent to Brand Highway
- Granted Mining Lease and Miscellaneous Licences for access
- □ Significant metallurgical testwork +99.9% SiO₂ <100ppm Fe₂O₃ after processing (high-grade, low impurity)
- □ Raw material for premium ultra-clear cover glass production for solar panels
- Potential for manufacturing cover glass from adjacent gas/hydrogen pipeline



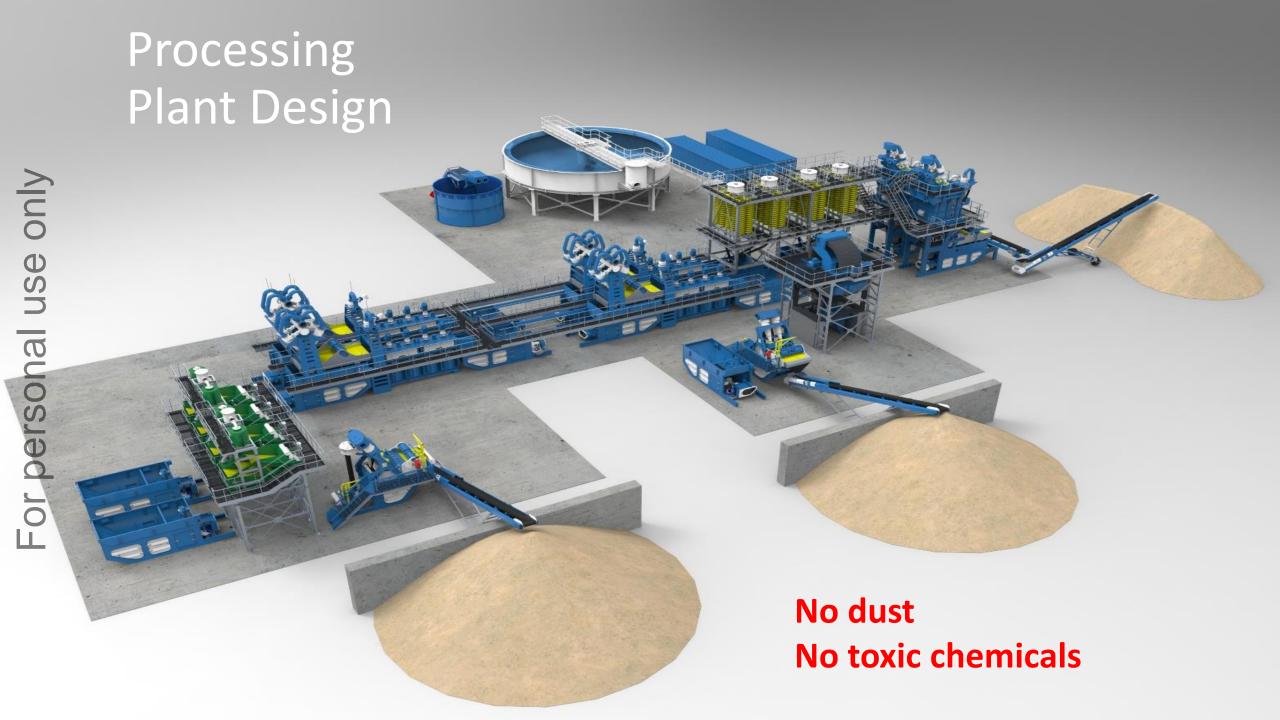


Processing Flowsheet

Simplified wet processing, multiple products, no dust, 2mtpa processing plant at each site









Sustainability, Environment, Social and Governance (ESG)

VRX is delivering on its ESG responsibilities aligned to the UN's Sustainable Development Goals

SUSTAINABLE GALS DEVELOPMENT















CLEAN ENERGY

Utilising reliable, renewable modern energy

ECONOMIC GROWTH

Enhancing economic and productive employment

INDUSTRY INNOVATION

Building resilient infrastructure and fostering innovation

SUSTAINABLE COMMUNITIES

Respecting heritage values

RESPONSIBLE PRODUCTION

Employing sustainable mining methods

CLIMATE ACTION

Reducing emissions from production

REHABILITATION PLAN

Employing direct vegetation transfer as a unique rehabilitation method



Australian Production

Potential silica sand mining sector in Australia





Other Initiatives

VRX is investigating other potential downstream products and cost saving alternatives

- □ Critical Minerals Prospectus VRX projects at Arrowsmith North and Muchea were included in the Critical Minerals Prospectus published by Austrade
- □ IAF Grant VRX has received a grant from the State Innovation Attraction Fund to investigate the production of silica flour
- ☐ Geothermal Energy Granted a geothermal permit at Dandaragan
- ☐ Trials of VDT VRX has applied for a NVCP at Muchea to trial the practicalities of VDT in various vegetation types at Muchea



Our Team

Board

Person	Role	Experience			
Paul Boyatzis	Chairman	Governance: over 30 years' experience in investment, equity markets and managing public companies			
Bruce Maluish	Managing Director	Technical and finance: over 40 years' experience in mining industry including previous roles as ASX MD and General Manager			
Peter Pawlowitsch	Non- Executive Director	Senior executive: finance and corporate roles			
Non- David Welch Executive Director		Senior executive: responsible for strategy, business transformation and performance, commercial negotiations			

Executive

Person	Role	Experience
Ryan Baxter	General Manager	Production: 15 years' experience in mining and construction with last 9 years exporting silica sand
David Reid	Exploration Manager	Technical: responsible for exploration and mineral processing
Steven Papadopoulos	Commercial Manager	Legal and commercial: over 20 years' experience as corporate lawyer and commercial advisor in resources and other industries
Yoonil Kim	Marketing Manager	Marketing: 18 years' experience selling silica sand in the Asian market



Corporate Summary



Capital Structure	
Share Price	9.5cps *
Ordinary Shares on Issue	583 million
Options on Issue	61 million
Market Capitalisation	\$56 million*
Cash	\$3.8 million
Debt	Nil
Enterprise Value	\$52 million
	1

Shareholders	
Board and Management	12%
Top 20 Total	33%

^{*} Closing share price on ASX on 17 October 2023



Right Time, Right Place

Opportunity for WA to capture its economic advantages of silica sand and gas reserves to build world-class glass manufacturing and downstream processing industries

- Very long life, high-grade silica sand supply with combined 1.4 billion tonne Resource, 96% to 99.6% SiO₂ grade
- WA domestic gas reserves and burgeoning hydrogen projects in mid-west
- Long term supply of essential raw materials and green energy for glass manufacturing (gas/solar/hydrogen)
- High-tech ultra-clear glass production capability from Muchea
- Manufacturing of solar panels in WA for a huge and growing market in Australia



Thank you

Bruce Maluish

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VRXSILICA Silica Sand Resources and Reserves

Mineral Resources - as at 30/06/2023

Project	Classification	Mt	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	TiO ₂ %	LOI %
Muchea	Indicated	29	99.6	0.1	0.03	0.1	0.2
	Inferred	179	99.6	0.1	0.02	0.1	0.2
	Total	208	99.6	0.1	0.02	0.1	0.2
Arrowsmith North	Measured	10	95.9	1.9	0.7	0.3	0.7
	Indicated	237	97.7	1.0	0.4	0.2	0.5
	Inferred	266	98.4	0.7	0.3	0.2	0.4
	Total	513	98.0	0.9	0.3	0.2	0.4
Arrowsmith Brand	Inferred	523	97.3	1.4	0.4	0.2	0.6
	Total	523	97.3	1.4	0.4	0.2	0.6
Arrowsmith Central	Indicated	28.2	96.6	1.7	0.4	0.2	0.7
	Inferred	48.3	96.9	1.5	0.4	0.2	0.7
	Total	76.5	96.8	1.5	0.4	0.2	0.7
Boyatup	Inferred	60	97.8	0.8	0.2	0.1	0.9
	Total	60	97.8	0.8	0.2	0.1	0.9

Total Mineral Resource 1,381 Million Tonnes

Ore Reserves - as at 30/06/2023

Project	Classification	Product	Mt	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI %
Muchea P	Probable	F80	10.2	99.9	0.02	0.008	0.03	0.1
		F80C	4.25					
		F150	4.25	99.8	0.07	0.015	0.035	0.1
Mud	chea Ore Res	erve	18.7	Million	Tonnes	6		
	Proved	AFS20	0.8	99.5	0.25	0.07	0.05	0.1
		AFS35	3.9	99.5	0.5	0.06	0.05	0.1
		AFS55	2.7	99.2	0.5	0.1	0.05	0.1
		Local	1.8					
Arrowsmith	Proved Ore Reserve		9.2	Million Tonnes				
North	Probable	AFS20	24.2	99.5	0.25	0.07	0.05	0.1
		AFS35	102.5	99.5	0.5	0.06	0.05	0.1
		AFS55	51.1	99.2	0.5	0.1	0.05	0.1
		Local	34.1					
Probable C		re Reserve	212	Million Tonnes				
Arrowsmith North Ore Reserve			221	Million Tonnes				
Arrowsmith Central	Probable	CF400	4.2	99.6	0.25			
		C20	8.4			0.04	0.03	0.1
		C40	4.2					
		High TiO ₂	2.2			<1%	2%	
Arrowsmith Central Ore Reserve		18.9	Million	Tonnes	5			

Total Ore Reserve 259 Million Tonnes