

INVESTOR PRESENTATION AUGUST 2020

VRX SILICA – INVESTMENT HIGHLIGHTS

Significant market interest in product as environmental permitting nears completion

- 100% owner of three high value Silica Sand Projects Muchea, Arrowsmith North and Arrowsmith Central all located within close proximity to Perth, Western Australia.
- Multi-decade scale contiguous sand deposits, with combined 1,056Mt Resource, SiO₂ grade 99.6% to 99.9% and low iron impurities.
- Leveraging growing demand in the Asia region for high-grade low iron silica sand for glass manufacture and as a component in foundry casting. Global supply has become constrained due to depletion and environmental restrictions on dredging.
- Bankable Feasibility Studies have validated exceptional economics with combined post tax NPV₁₀ of \$728m, capex of just \$87m, annual EBIT of \$137m and IRR of 83%, all based on conservative Silica Sand sales prices.
- Capex cost of ~\$30m for each 2Mtpa project with simple "off the shelf" processing plants and convenient access to existing under utilised rail to port transport infrastructure supporting high capacity logistics.
- Environmental permitting processes well advanced with grant of mining leases for each project the key driver to finalise fixed price and tonnage contracts with Asian and US customers.
- Offtake agreements catalyst to financing, construction and production. Near term share market re-rating likely towards significantly higher underlying fair value.



CORPORATE SUMMARY



BOARD AND MANAGEMENT

Classification	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 30 years in mining industry including previous roles as ASX MD and General Manager					
Peter Pawlowitsch	Non-Executive Director	Finance and Corporate: Mining and software executive					
Steven Papadopoulos	Commercial Manager	Legal and Commercial: Over 20 years experience as corporate lawyer and commercial advisor in resources and other industries					
Yoonil Kim	Contract Sales Manager	Marketing: 15 years' experience selling silica sand in the Asian market					

CAPITAL STRUCTURE

Share Price ¹	10 cps
Ordinary Shares	445 million
Options on Issue	93.4 million
Market Capitalisation	A\$44.5 million
Cash (30 June 20)	A\$2.6 million
Debt	Nil
Enterprise Value	A\$41.3 million

SHAREHOLDERS

Australian Silica	13.48%
Board and Management	10.5%
Sunset Capital	2.25%
Goldfire Enterprises	2.61%
Top 20 Total	40.0%

BROKER COVERAGE

Argonaut	ARGONAUT	
Hartleys	Hartleys	



¹ Share price as at 14 July 2020

WHAT IS SILICA SAND

Glassmaking and the foundry industry are the target applications for VRX's silica sand products

Silica Sand is quartz that over time, through the erosion by water and wind, has been broken down into tiny granules.

Industrial sand is a term normally applied to high purity silica sand products with closely controlled sizing. It is a more precise product than common concrete and asphalt gravels.

Silica (SiO₂) is the name given to a mineral composed solely of silicon and oxygen. Found most commonly in the crystalline state, it also occurs in an amorphous form resulting from weathering or plankton fossilisation.

Silica is hard and chemically inert and has a high melting point, attributable to the strength of the bonds between the atoms. These are prized qualities in applications like foundries and filtration systems. Industrial sand's strength, silicon dioxide (SiO₂) contribution, and non-reactive properties make it an indispensable ingredient in the production of thousands of everyday products.







SILICA SAND HAS VARIOUS APPLICATIONS

Glassmaking and the foundry industry is the target application for VRX's silica product



GLASSMAKING

Flat, containers, architectural, thin film



METAL CASTING/FOUNDRY

Automobile Parts



HYDRAULIC FRACTURING

Fracking sand/proppant



CONSTRUCTION SAND

Concrete



FILTRATION

Water production



METALLURGICAL

Ferrous and Non-ferrous Alloys



CHEMICAL PRODUCTION

Sodium silicate, silicon gels



RECREATIONAL

Inert growing media, golf bunkers



CERAMICS AND REFRACTORIES

High temp resistance

Glassmaking and Foundry are VRX's high-value target markets

- Asian glass making production increasing 5-6% p.a. (~8-10 Mtpa Growth)
- Flat Glass growth in Asia 5-6% p.a. with current market size 60-65 Mt
- Container Glass growth in Asia 5-6% p.a. with current market size 70-75 Mt
- Cover Glass (solar panels) growth in Asia
 +30% p.a. with current market size ~6Mt
- Smart Glass growth in Asia 5-6% p.a. with current market size ~2 Mt
- Specialist Glass growth in Asia +10% p.a.
 with current market size 500-600 kt
- Demand for casting products for usage in automobiles, auto components and construction equipment is rising substantially

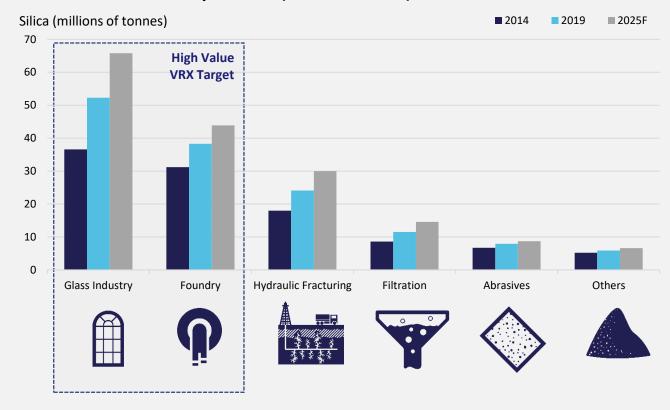


SILICA SAND APPLICATIONS DRIVING DEMAND GROWTH

Glass and Foundry Industry growth is set to drive the demand for silica sand in the APAC Region

- Developing countries in the APAC region are anticipated to experience substantial Infrastructural spending, driving glass demand
- The foundry industry in Asia has grown as countries have gained manufacturing specialisation and automotive demand has risen. This industry represents a key growth market for silica sand over the coming years
- Collectively, the foundry and glass industries represent 65% of the APAC silica sand market and are high-value targets for VRX's products

Silica Market Demand by End Use (APAC Countries)





Source: IMARC Group

ARROWSMITH (NTH & CENTRAL) AND MUCHEA PROJECTS

Each project may be developed and operated separately and profitably

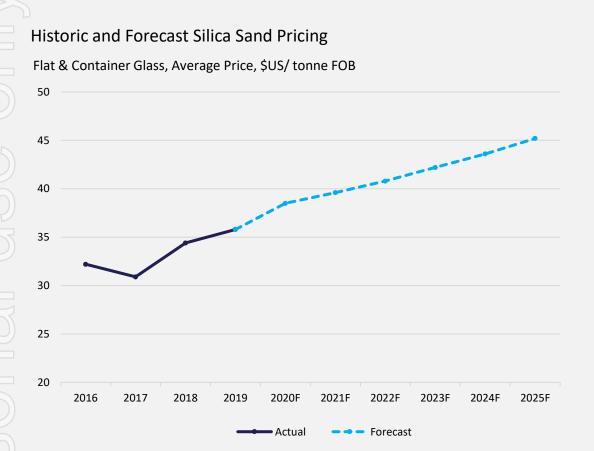


- 100% ownership
- Large scale, high-grade and low impurity silica sands projects
- BFSs completed Aug-Oct 2019 with following combined highlights:
 - 25-year mine life (potential for 100+ years)
 - Aggregate capital expenditure of \$87 million (3 projects)
 - Initial financing requirement c.\$28.3 million (Arrowsmith North)
 - Avg. annual EBITDA¹ of \$140 million
 - Post-tax Project NPV₁₀ of \$728 million
 - Post-tax IRR of 83%
- Simple and conventional mining process
- Access to established infrastructure (logistics, power, water) rail lines run adjacent to project tenements
- Each project may be developed and operated profitably and also separately
- Quality product with binding offtake discussions ongoing
- Environmental approvals well advanced expected Q3 CY2020



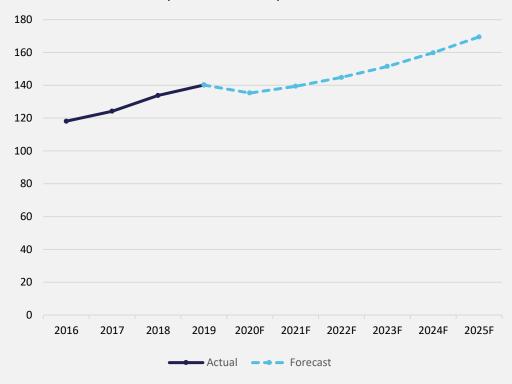
SILICA SAND PRICE AND DEMAND DYNAMICS

Silica Sand is forecast to increase in price across Asia-Pacific countries in line with rising demand and supply constraints due to depletion and environmental restrictions on dredging





Flat & Container Glass Silica (millions of tonnes)

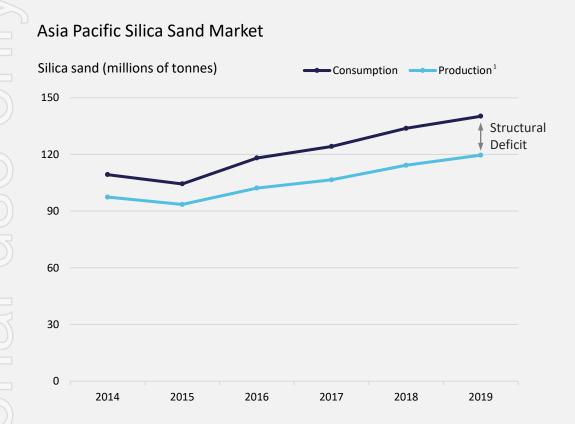


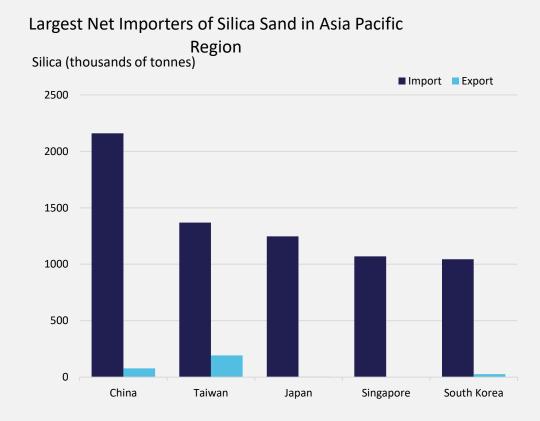


Source: IMARC Group

DEMAND NOT MET BY EXISTING PRODUCTION

Key countries in the Asia Pacific region have unmet demand from local production only





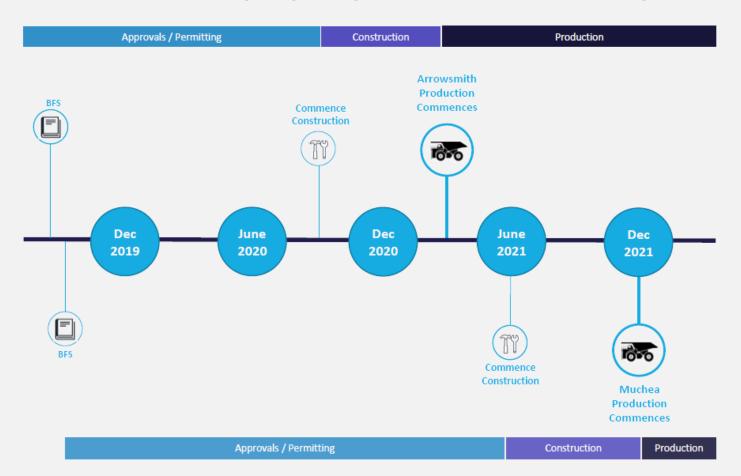


Source: IMARC Group

1. Production aggregated from China, India, Malaysia, South Korea, Japan and Australia

INDICATIVE PROJECT TIMELINE

Approvals, offtakes and funding progressing, with development commencing later 2020



- Bankable feasibility studies for the Muchea, Arrowsmith North and Arrowsmith Central projects completed
- Environmental permitting processes well advanced
- Grant of mining leases for each project the key driver to agreement on firm fixed price and tonnage contracts
- Construction for the Arrowsmith North Project to commence late 2020 once permitting, offtake and financing secured
- Construction for the Muchea project expected to commence mid 2021



EXCEPTIONAL PROJECT ECONOMICS

All three projects have exceptional standalone economics over 25 years

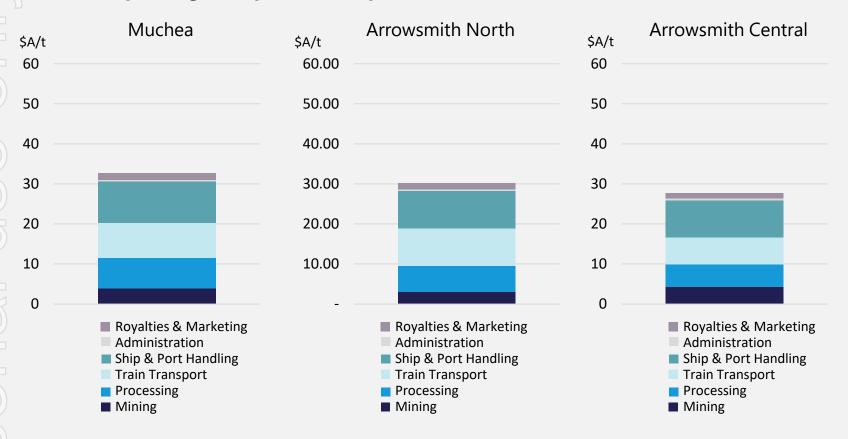


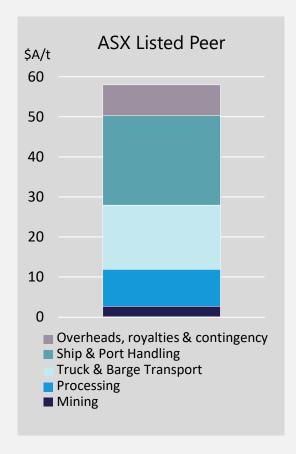


SIGNIFICANT COMPARATIVE ADVANTAGE

VRX's projects have significantly lower operating costs than domestic and international peers due to competitive logistics solutions

Estimated operating costs per tonne of product



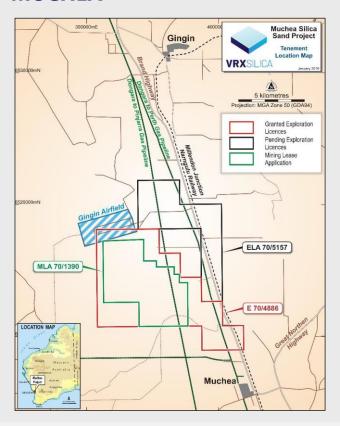




INFRASTRUCTURE READY

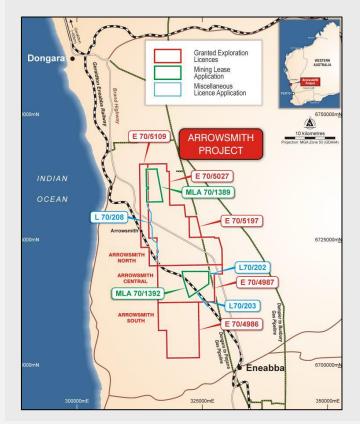
Connecting VRX's projects to Asian Silica Sand customers

MUCHEA



- Adjacent to Brand Highway
- Underutilised railway adjacent to project
- Rail network connects to Kwinana Bulk Terminal (100km)
- Grid power available from adjacent lines
- Supplementary solar power
- Water from Yaragadee deep aquifer

ARROWSMITH



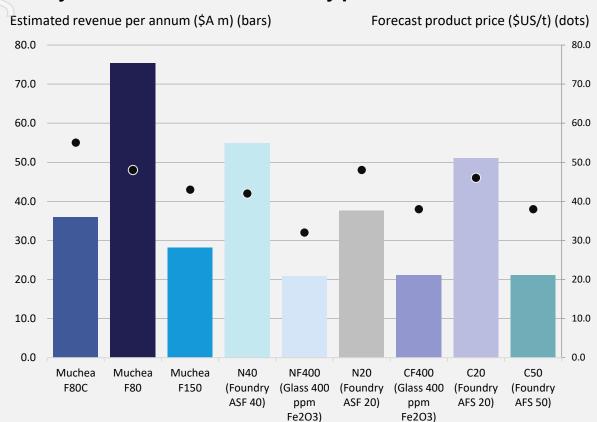
- Established rail network direct to Geraldton Port (100km) runs through project
- Adjacent to Brand Highway
- Dedicated gas and solar power supply
- Water from Yaragadee North deep aquifer



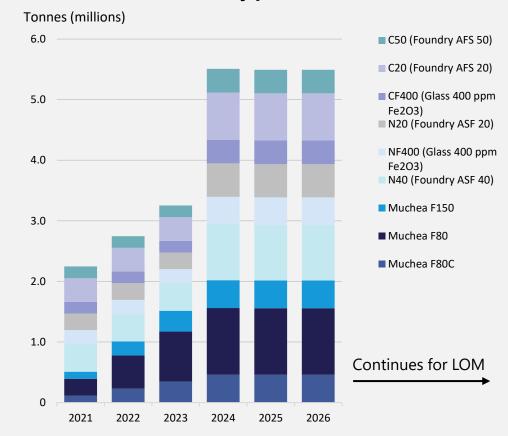
SILICA SANDS PRODUCT AND REVENUE BREAKDOWN

Life of mine breakdown and steady state contributions to revenue

Steady-state revenue contribution by product



Production breakdown by product

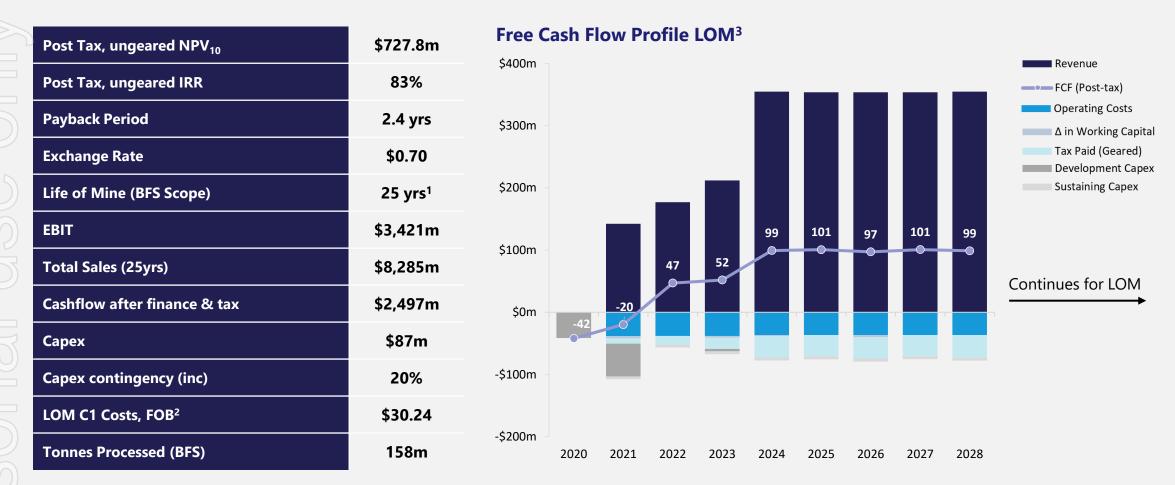




Source: VRX Financial Model

ROBUST PROJECT ECONOMICS

Post-tax NPV₁₀ of \$727.8 million driven by low cost, long-life, high-margin operations





Source: VRX Bankable Feasibility Studies

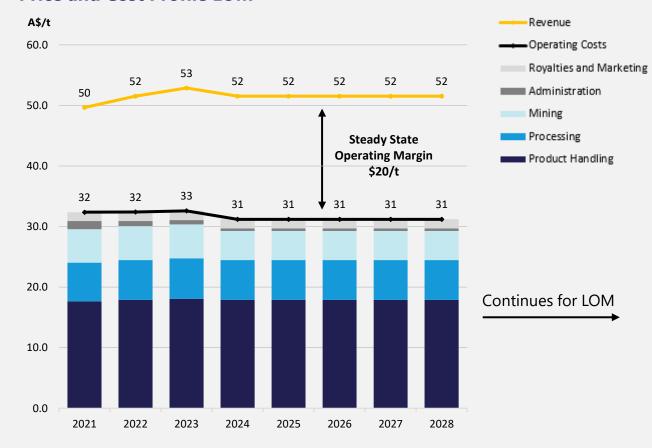
- Resource has potential to extend 100+ years
- 2. Includes Royalties, expressed per tonne of processed ore as in BFS
- 3. VRX Financial Model

HIGH MARGIN OPERATION

LOM operating margin of \$20/t underpins robust project economics

Operating Cost	\$AUD/t
Mining	4.86
Processing	6.57
Product Handling	17.89
Administration	0.46
Royalties & Marketing	1.50
Total	31.28
Revenue	51.52
Average Operating Margin	20.24

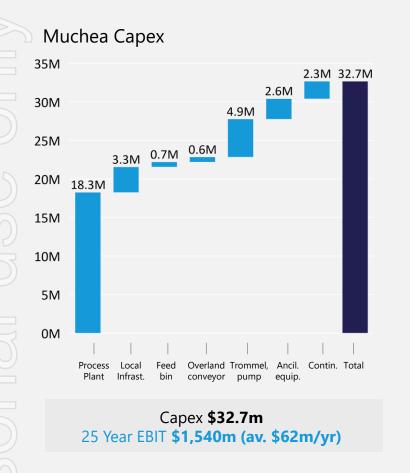
Price and Cost Profile LOM¹

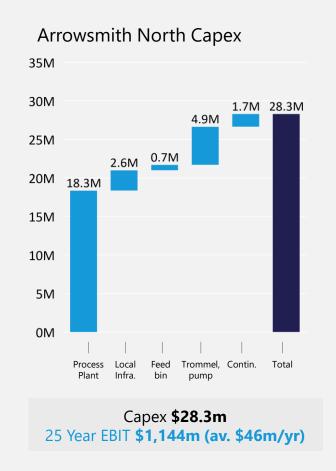


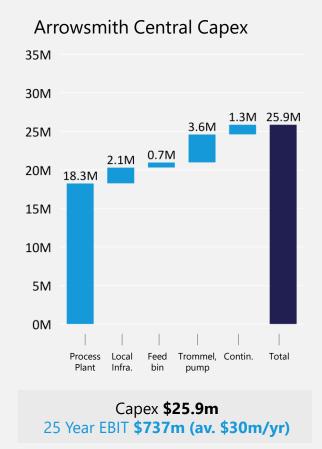


ATTRACTIVE CAPEX SIZING

The three projects require low capex relative to their earnings potential



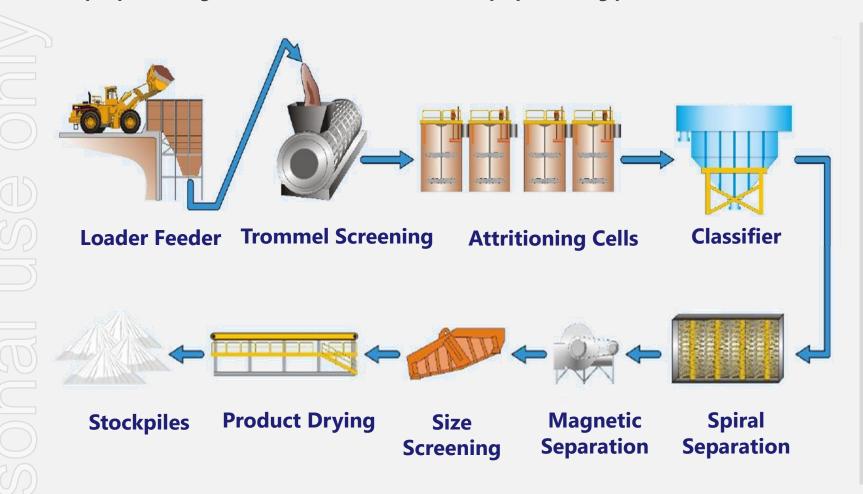






PROCESSING FLOWSHEET

Simple processing, no chemicals and no dust, 2mtpa processing plant at each site



Processing Plant Design



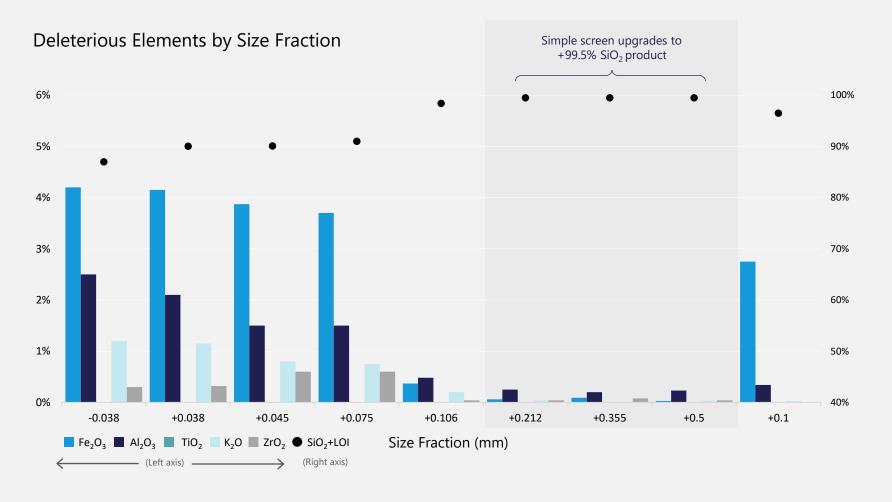
- Muchea, Arrowsmith North and Arrowsmith Central to each have 2 Mtpa processing capacity
- No chemicals required

+99.5% SiO₂ WITH SIMPLE SCREEN

Arrowsmith North Silica Sand Project "Cream Sand" Size by Analysis Data

Applying a simple 0.212mm – 1.0mm screen removes the majority of the impurities in the Silica sand

 This delivers a spec suitable for flat and container glass and foundry sand





ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG)

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

















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



INVESTMENT HIGHLIGHTS



Emerging Australian strategic silica sand producer

Outstanding project economics





Rapid pathway to financing and production

Well placed to capitalise on robust market outlook and demand





RESOURCES AND RESERVES

Mineral Resources

	Project	Classification	Mt	SiO₂%	Al ₂ O ₃ %	Fe₂O₃ %	TiO₂ %	LOI %
		Indicated	29	99.6	0.09	0.03	0.07	0.22
	Muchea	Inferred	172	99.6	0.05	0.02	0.10	0.23
		Total	208	99.6	0.06	0.02	0.10	0.23
		Indicated	248	97.7	1.00	0.40	0.20	0.50
	Arrows mith North	Inferred	523	98.2	0.80	0.30	0.20	0.40
		Total	771	98.0	0.86	0.30	0.17	0.41
		Indicated	28.2	96.6	1.70	0.40	0.20	0.70
	Arrows mith Central	Inferred	48.3	96.9	1.50	0.40	0.20	0.70
3		Total	76.5	96.8	1.50	0.40	0.20	0.70
	Total N		1,056	Millior	n Tonne	es		

Ore Reserves

Project	Classification	Product	Recovery	Mt	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	TiO ₂ %	LOI %
	Probable	F80	48%	10.2	99.9	0.02	0.008	0.03	0.1
Muchea		F80C	20%	4.25	99.9	0.02	0.008	0.03	0.1
iviuchea		F150	20%	4.25	99.8	0.07	0.015	0.035	0.1
	Muchea Ore Reserve 18.7			18.7	Million 1	Tonnes			
	Probable	N20	24%	60	99.7	0.2	0.05	0.035	0.1
Arrowsmith		N40 / NF500	60%	149					
North		Local Market	6%	15					
	Arrowsmith North Ore Reserve			223	Million 1	Tonnes			
	Probable	CF400	17%	4.2	99.6	0.25	0.04	0.03	0.1
		C20	34%	8.4					
Arrowsmith Central		C40	17%	4.2					
00.11.01		High TiO ₂	9%	2.2			<1%	2%	
	Arrowsmith Central Ore Reserve			18.9	Million 1	Tonnes			
Total Ore Reserve 2			261	Millior	n Tonne	es			



^{*}Note: Interpreted mineralisation is domained into different sand types based on drill logging data and publicly available soil mapping information, above a basal surface wireframe defined on the current drill sampling depths. Depletion zones include the upper 0.5 m for rehabilitation purposes, and minor swamp zones in the east and south of the modelled area. Differences may occur due to rounding. Details of the Arrowsmith North, Arrowsmith Central and Muchea Resources can be found in the announcements dated 9 July 2019, 15 August 2019 and 17 June 2019 respectively.

IMPORTANT INFORMATION

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Competent Persons Statement

The information in this report that relates to Arrowsmith North, Arrowsmith Central and Muchea Exploration Results and Muchea Aircore Drilling Area Mineral Resources are based on data collected and complied 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.

The information in this report that relates to Arrowsmith North, Arrowsmith Central and Muchea Auger area Mineral Resources is based on information compiled by Mr Grant Louw who is a full-time employee of CSA Global, under the direction and supervision of Dr Andrew Scogings, who is an Associate of CSA Global. Dr Scogings is a Member of the Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. He is a Registered Professional Geologist in Industrial Minerals. Dr Scogings has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources, and Ore Reserves (JORC Code). Dr Scogings consents to the disclosure of information in this report in the form and context in which it appears.

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.

Full details of the bankable feasibility studies for the Arrowsmith North, Arrowsmith North, Arrowsmith Central and Muchea projects, including material assumptions underpinning production targets and forecast financial information, are contained in VRX's ASX announcements of 28 August 2019, 17 September 2019 and 18 October 2019, respectively. All such material assumptions continue to apply and have not materially changed. Whilst VRX considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will be correct or that the range of outcomes indicated within the studies will be achieved.

