

QUARTERLY ACTIVITIES REPORT FOR THE PERIOD ENDED 31 MARCH 2020

8 April 2020

ASX Code:

Directors:

Mr John Richards
Non-Executive Chairman

Mr Bruce McFadzean Managing Director

Mr David Archer
Non-Executive Director

Mr Will Burbury
Non-Executive Director

Mr Ian Macliver
Non-Executive Director

Registered Office:

Level 2, 41-47 Colin Street West Perth WA 6005

Share Registry:

Link Market Services Level 12, QV1 Building 250 St Georges Terrace Perth WA 6000

Capital Structure:

Ordinary Shares: 309.0M Unlisted Options: 4.5M Unlisted Rights: 8.2M

Market Capitalisation:
A\$34 million

Cash Reserves: A\$7.7 million (as at 31 March 2020)

Investor Relations:

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HIGHLIGHTS

Thunderbird Mineral Sands Project

- Thunderbird Project strategy review and cost management initiatives implemented
- Actively assessing materially reduced capital cost development options for the world class Thunderbird Mineral Sands Project
- Thunderbird Project care and maintenance activity suspended whilst ensuring Project approvals are maintained.
- Community and stakeholder communications held to ensure all key stakeholder are aware of the Company activities
- A representative twenty-tonne bulk ore sample was prepared for dispatch to offtake partner Bengbu Zhongheng New Materials S&T Co. Ltd (Bengbu) to undertake metallurgical test work
- Review and rationalisation of non-core exploration tenements initiated in line with cost management initiatives, saving approximately \$0.5m in annual expenditure commitments.

Corporate Activities

- \$7.7m in cash at quarter end (unaudited) with forecast expenditure of \$1.8m in the June quarter
- Board renewal process continues with Mr John Richards appointed Non-Executive Chairman.
- Cost control measures implemented with a 25% salary reduction for key management personnel and director fee reductions of a minimum of 25%.
- The Company received a 2019 Research and Development tax refund of \$0.7m during the Quarter.
- The Company is well prepared in Perth and the Kimberley region, implementing COVID-19 protocols to secure the safety and well-being of all personnel.

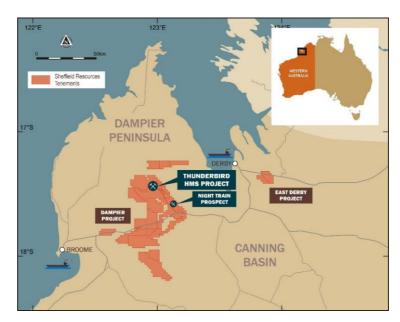


Figure 1: Location of Sheffield's Dampier Mineral Sands Projects

1

OPERATIONAL AND EXPLORATION SUMMARY

Sheffield Resources Limited ("Sheffield" or "the Company") initiated a development strategy review of its world-class Thunderbird Mineral Sands Project ("Thunderbird" or "Project") during the Quarter.

Business Review

Following a strategic business review and in the context of the high cost level associated with maintaining the Project in a "shovel-ready" state, it was determined by the Board to pause strategic partner sourcing whilst the Project underwent an assessment to deliver a materially lower capital project. Discussions with third parties who have expressed an interest in project financing and investment have continued throughout the Quarter.

The Company implemented appropriate corporate and organisational changes to preserve cash and allow the rescoping works to advance under a materially lower cost structure, with targeted savings of A\$7.5 million per annum.

Moving forward, Sheffield is focused on two core objectives:

- i) Preserving cash reserves to ensure that the Company has a cash runway well into 2021; while
- ii) Defining a revised project scope for Thunderbird which will provide a lower capital cost, more readily financeable project when favourable market conditions return.

Commercial, Exploration and Site Activities

During the Quarter, the Company's initiatives to preserve cash and shareholder value resulted in a number of personnel changes, whilst retaining the core skills necessary to deliver near term technical and commercial outcomes for the Project. Executive management and employee positions in both Perth and the Kimberley have reduced, including the suspension of active care and maintenance activities at the Thunderbird Project. A 25% salary reduction has been implemented for key management personnel, along with reduced full-time equivalent working arrangements for other personnel. The Company has implemented security, environmental monitoring and other arrangements to ensure the Thunderbird site remains in readiness for construction.

The above initiatives are further supported by our key partner Taurus Mining Finance, who have agreed to defer the project financing commitment fee arrangements from the end of the March 2020 quarter, until such time that a Final Investment Decision can be reached for Thunderbird.

The Sheffield Board renewal process continues with Mr John Richards appointed Non-Executive Chairman and Mr Will Burbury and Mr David Archer stepping into Non-Executive Directors roles. Through the change in Board composition, the Board has initiated changes to Director remuneration, with Non-Executive Director fees being reduced by a minimum of 25% of agreed Director remuneration.

The Company undertook a number of stakeholder and community engagements to ensure that all stakeholders were updated on corporate and operational changes, particularly in the Kimberley in relation to the suspension of the care and maintenance activities at the Thunderbird Project and the Project strategy.

Sheffield prepared a representative twenty-tonne bulk ore sample for dispatch to Bengbu Zhongheng New Materials S&T Co. Ltd (Bengbu), which shall undertake metallurgical test work relating to the production of an ilmenite concentrate as a chloride slag feedstock.

A review of exploration tenure has commenced to reduce expenditure commitments. At the Dampier Project, Sheffield voluntarily surrendered granted exploration tenure from five tenements. The Barton Project and Ceduna Project (South Australian) exploration lease applications were withdrawn, relinquishing Sheffield interest in South Australia. No change occurred to the Eneabba Project which is predominantly under retention status and the McCalls Projects which is fully under retention status. The

Derby East Project tenure also remains unchanged. These changes have reduced annual expenditure commitments by approximately \$0.5m. The Company continues exploration tenure management and reductions in line with cost management initiatives and COVID-19 measures announced by government.

Cost savings effected to date have resulted in an annualised cost of approximately A\$7.5 million below the rate incurred when in "shovel-ready" status for Thunderbird, in line with the cost reduction plan set in place earlier in the quarter.

THUNDERBIRD MINERAL SANDS PROJECT

Early Works Program

The focus of work was on the orderly suspension of care and maintenance activities at the Thunderbird Project and the implementation of security measures including the extension of the remote security cameras network, environmental and baseline water monitoring requirements and caretaking arrangements to ensure the site remains secure and in readiness for future construction activities. The Company assisted Kimberley based employees in their transition to other employment opportunities.

A twenty-tonne bulk sample from the Thunderbird deposit was homogenised using material from the 2015 Bauer drilling program. The bulk sample has been dispatched to Bengbu Zhongheng New Materials S&T Co. Ltd ('Bengbu') to undertake metallurgical test work relating to the production of an ilmenite concentrate as a chloride slag feedstock.





Figure 2: Homogenisation of bulk sample (left), re-bagging of bulk sample (right)

Aboriginal and Community Engagement

The Company held a number of engagement meetings and media communications events to ensure the community and the key Project stakeholders were fully informed regarding the Company's strategy and particularly the suspension of care and maintenance activities at the Thunderbird Project.

A meeting was held with the Native Title Party regarding the Company activities and the results of the final artefact checks over 285 hectares of land required for construction activities.

Sustainability

Following the suspension of care and maintenance activities, the Company completed an audit of environmental and associated licence conditions to ensure the Project remains compliant and retains all required Project approvals.

Project Scope

Following the pause in the strategic partner process, Sheffield has moved to consider revisions to the BFS Update project scope with a focus on delivering a project which has lower initial capital costs and a

lower equity capital component while retaining the high rates of return of the BFSU project. Initial work is directed at a flowsheet which delivers two products: an ilmenite-rich magnetic concentrate and a zirconrich non-magnetic concentrate. This work, supported by advice from industry consultants, is at an early stage and will be continued in the June Quarter.

Thunderbird remains the only Tier 1 mineral sands project in a Tier 1 jurisdiction which is fully permitted and able to be brought into production at a time when the gap between consumption and production of both zircon and titanium minerals is rapidly emerging.

Marketing and Offtake

In conjunction with the Company's forward business strategy, discussions with potential offtake partners continued in the Quarter. Many potential offtake groups demonstrate very strong interest in a range of product mixes, particularly the supply of magnetic and non-magnetic concentrates. IHC Robbins has been engaged to perform test work with test results and product samples for offtake partners expected during the June quarter.

The zircon sand market saw some price softening late in 2019 with pricing, supply and demand less certain ahead of the Chinese New Year and exacerbated by the COVID-19 events in China. With some delay from Chinese production facilities, volumes were lower than expected however as the year has moved ahead, China has regained momentum with solid volumes being secured by consumers and pricing has stabilised. Recent communication with Chinese groups have been very positive more recently, with industry operating at either full production or heading into full production. China is the largest market for zircon material with approximately 50% of the market volume, along with India and Europe. Long range forecasts continue to indicate significant supply shortages for zircon sand in the coming years. Zircon sand production and supply has been further interrupted by the temporary closure of Richards Bay Mineral operations in South Africa and other global supply issues caused by the COVID-19 pandemic.

The full year 2019 represented a very strong year for the titanium feedstock industry, with demand remaining solid during the year with all suppliers able to steadily increase pricing during the year. Market conditions have remained strong heading into 2020 with long range supply and demand forecasts also indicating a healthy market. In general, western producers dominate the production and supply of chloride pigment, however Chinese processors have been developing technology and recently have expanded capacity for chloride pigment production. Again, the industry supply issues related to the COVID-19 pandemic have placed further stress on the global supply outlook.

EXPLORATION ACTIVITIES

Dampier Project

Sheffield undertook a review of Dampier exploration tenements during the Quarter to reduce expenditure commitments of approximately \$0.5m p.a., with granted exploration tenure being voluntarily surrendered from five tenements. A full tenure surrender was completed at Foldnose (E04/2192), Dingo Plains (E04/2399) and Yulleroo South (E04/2400). A partial surrender was undertaken on the maturing tenements of Country Downs (E04/2084) and Little Logue (E04/2171). Sheffield will continue to review the Dampier exploration tenement package in the upcoming Quarter to further refine tenure.

The Collins (E04/2597) tenement was granted during the Quarter located 5km north of the Bohemia Heavy mineral ('HM') occurrence. Bohemia was discovered by Sheffield during an exploratory air core program in 2018. Mineralisation at Bohemia is hosted by soft, fine clean predominantly light grey quartz sands, in the form of a thick blanket which remains open in all directions.

Significant results from Bohemia include **43.5m @ 2.35% HM** from 16.5m in NLACO18 (applying a 1.0% HM cut-off), including **10.5m @ 4.25% HM** from 25.5m (applying a 3.0% HM cut-off) (refer to ASX

announcement dated 13 November 2018). QEMSCANTM mineral assemblage by particle classification analysis at Bohemia returned 15% zircon, 26% ilmenite and 23% leucoxene with high titanium and rutile and a D_{50} for the zircon grain size of 62 μ m (refer to ASX Quarterly announcement dated 1 May 2019). Sheffield has interpreted that the mineralisation is likely to shallow towards the newly granted Collins tenement to the north of the Bohemia HM occurrence.

Eneabba & McCalls Projects

Sheffield's 100% owned Eneabba Project is located about 110km north of Perth in Western Australia's Midwest region. The Eneabba Project has a Mineral Resource inventory totalling 193.3 million tonnes @ 3.0% HM containing 4.8 million tonnes of Valuable Heavy Mineral above various HM cut-offs (Measured, Indicated and Inferred) (refer to ASX announcement 3 October 2018 and 24 September 2019). The mineralisation is across seven Mineral Resources including Yandanooka, Durack, Drummond Crossing, Robbs Cross, Thomson, West Mine North and Ellengail.

The McCalls Mineral Sands Project (McCalls) is located 110km to the north of Perth near the town of Gingin. Across two deposits (McCalls and Mindarra Springs) the Project has a Mineral Resource of 5,800 million tonnes @ 1.4% HM above a 1.1% HM cut-off (Indicated and Inferred). The McCalls Project contains 67 million tonnes of chloride ilmenite grading 59-66% TiO₂ and is considered a longer-term strategic asset (refer to ASX announcement 03 October 2018 and 24 September 2019). Both HM deposits in the McCalls Project have retention status. A review of all project data and Mineral Resource data for Eneabba & McCalls Projects continued during the Quarter.

Barton & Ceduna Projects

The exploration licence applications of Sherrin (ELA2018/0046), Sleeper (ELA2019/0152) and Camel (ELA2019/0145) were withdrawn.

Derby East Project

The Derby East Project comprises of a large occurrence of construction quality sand, located 24km east of the Port of Derby. No work was undertaken during the Quarter.

CORPORATE ACTIVITIES

Business Review

Following a strategic business review, it was determined by the Board to pause the strategic partner sourcing activities whilst the Project commenced an assessment to deliver a materially lower project capital options. Discussions with third parties who have expressed an interest in project financing and investment has continued throughout the Quarter.

The Company implemented appropriate corporate and organisational changes to preserve cash resources and allow the rescoping works to advance under a materially lower cost structure. A 25% salary reduction has been implemented for key management personnel, along with reduced full-time equivalent working arrangements for other personnel.

The Company has negotiated a commitment fee suspension with key partner Taurus Mining Finance, who have agreed to defer the project financing commitment fee arrangements from the end of the March 2020 quarter, until such time that a Final Investment Decision (FID) can be reached for Thunderbird.

Other Business

Following on from the announcement last year that a Board renewal process was underway, the Company advised that founding Board members, Mr Will Burbury and Mr David Archer had stepped into Non-Executive Directors roles with the Board appointing Mr John Richards, a current Non-Executive Director to serve as Non-Executive Chairman. Through the change in Board composition, the Board has initiated

changes to Director remuneration, with Non-Executive Director fees being reduced by a minimum of 25% of agreed Director remuneration. The Board remains focused upon generation of long term shareholder value whilst navigating the COVID-19 global pandemic and related market volatility.

In response to the COVID-19 pandemic, the Company has implemented appropriate protocols aimed at supporting both employees and core business processes.

The Company received a 2019 Research and Development tax refund of \$0.7m during the Quarter.

As at 31 March 2020, Sheffield held cash reserves of approximately A\$7.7 million (unaudited) and following one-off reorganisation costs incurred in the current quarter, forecasts \$1.8 million of expenditure in the June quarter. The cash forecast of \$1.8m includes an outlay of \$0.6m associated with the recently suspended Taurus financing commitment fees, paid in early April 2020.

Mr Bruce McFadzean

Managing Director 8 April 2020

Schedule 1: Interests in Mining Tenements at the end of the quarter as required under ASX Listing Rule 5.3.3

Project	Tenement	Holder	Interest	Location	Status
Mineral Sands	E04/2081 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2083 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2084 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2159 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2171 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2193 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2194 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2348 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2349 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2350 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2390 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2494 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2554 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2571 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2509 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2510 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2540 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2554 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2596 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2597 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2642 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2643 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2644 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2645 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	L04/82 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	L04/83 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	L04/84 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	L04/85 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	L04/86 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	L04/92 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	L04/93 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	M04/459 ²	Thunderbird Operations Pty Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2455	Sheffield Resources Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2456	Sheffield Resources Ltd	100%	Canning Basin	Granted
Mineral Sands	E04/2478	Sheffield Resources Ltd	100%	Canning Basin	Granted
Mineral Sands	E70/3762	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/3813	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/3814	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/3859	Sheffield Resources Ltd	100%	Perth Basin	Pending
Mineral Sands	E70/3929	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/3967	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/4190	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/4292	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/4584	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/4719	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/4747	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	E70/4922	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	M70/872 ¹	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	M70/965 ¹	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	M70/303 M70/1153 ¹	Sheffield Resources Ltd	100%	Perth Basin	Granted
Mineral Sands	R70/35 ¹	Sheffield Resources Ltd	100%	Perth Basin	Granted

Notes

Details of tenements and/or beneficial interests acquired/disposed of during the Quarter are provided in Section 10 of the Company's accompanying Appendix 5B notice.

 $^{{}^{1}\}text{lluka Resources Ltd (ASX: ILU) retains a gross sales royalty of } 1.5\% \text{ in respect to tenements R70/35, M70/872, M70/965 \& M70/1153.}$

²Thunderbird Operations Pty Ltd and ³Moora Talc Pty Ltd are wholly owned subsidiaries of Sheffield Resources Ltd.

Appendix 1

ORE RESERVES AND MINERAL RESOURCES

SHEFFIELD ORE RESERVE AS OF 31 MARCH 2020

DAMPIER PROJECT ORE RESERVES

SHEFFIELD ORE RESERVE FOR DAMPIER PROJECT AT 31 MARCH 2020 (in-situ assemblage)

Summary of (Ore Reserve ^{1,}	2,3,4			Valuabl	le HM As	semblage	(in-situ) ⁵		
Deposit	Ore Reserve	Material	In-situ Total HM ⁷	Total HM Grade	Zircon	HiTi Leuc	Leuco -xene	Ilmenite	Oversize	Slimes
	Category	(Million Tonnes)	(Million Tonnes)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Thunderbird	Proved	219	30.0	13.7	1.02	0.30	0.28	3.68	14.0	16.1
	Probable	529	53.4	10.1	0.79	0.26	0.27	2.87	10.5	14.5
	Total	748	83.8	11.2	0.86	0.27	0.27	3.11	11.6	15.0

SHEFFIELD ORE RESERVE FOR DAMPIER PROJECT AT 31 MARCH 2020 (HM assemblage)

Summary of (Ore Reserve ^{1,2}	2,3,4			Val	luable HN	/I Assemb	lage ⁶		
Deposit	Ore Reserve	Material	In-situ Total HM ⁷	Total HM Grade	Zircon	HiTi Leuc	Leuco -xene	Ilmenite	Oversize	Slimes
	Category	(Million Tonnes)	(Million Tonnes)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Thunderbird	Proved	219	30.0	13.7	7.4	2.2	2.0	26.9	14.0	16.1
	Probable	529	53.4	10.1	7.8	2.6	2.7	28.4	10.5	14.5
	Total	748	83.8	11.2	7.7	2.4	2.4	27.8	11.6	15.0

¹The Ore Reserves are presented with in-situ HM grade, and mineral assemblage. Tonnes and grades have been rounded to reflect the relative accuracy and confidence level of the estimate, thus the sum of columns may not equal. This Ore Reserve reported for the Dampier Project was prepared and first disclosed under the JORC Code (2012) in the announcement 31 July 2019 Titled "Thunderbird 10% Ore Reserve Increase". The Ore Reserve is reported to a design overburden surface with appropriate consideration for modifying factors, costs, mineral assemblage, process recoveries and product pricing

The Ore Reserve estimate was prepared by Entech Pty Ltd, an experienced and prominent mining engineering consultancy with appropriate mineral sands experience in accordance with the JORC Code (2012 Edition). The Ore Reserve was estimated using all available geological and relevant drill hole and assay data, including mineralogical sampling and test work on mineral recoveries and final product qualities. The Company is not aware of any new information or data that materially affects the information included in the Ore Reserve estimate and confirms that all material assumptions and technical parameters underpinning the estimate continue to apply and have not materially changed. The Ore Reserve estimate is based on the current, July 2016 Thunderbird Mineral Resource estimate, announced to the ASX on 5 July 2016. Measured and Indicated Mineral Resources were converted too Proved and Probable Ore Reserves respectively, subject to mine design, modifying factors and economic evaluation.

^{2.}Ore Reserve is a sub-set of Mineral Resource

Total HM is within the 38µm to 1mm size fraction and reported as a percentage of the total material, slimes is the -38µm fraction and oversize is the +1mm fraction.

⁴Tonnes and grades have been rounded to reflect the relative accuracy and confidence level of the estimate, thus the sum of columns may not equal.

The in-situ assemblage grade is determined by multiplying the percentage of HM by the percentage of each valuable heavy mineral within the heavy mineral assemblage at the resource block model scale

[®]Mineral Assemblage is reported as a percentage of HM Grade, it is derived by dividing the in-situ grade by the HM grade.
⁷ The contained in-situ tonnes derived from HM and material tonnes from information in the Mineral Resource tables

SHEFFIELD MINERAL RESOURCE

1) DAMPIER PROJECT MINERAL RESOURCES

SHEFFIELD MINERAL RESOURCE FOR DAMPIER PROJECT AT 31 MARCH 2020 (in-situ assemblage)

Summary of M	lineral Resour	ce ^{1,2,3}					n-situ As	ssemblage	4, 5	_	
Deposit	Mineral Resource	Cut off	Material	In-situ Total HM ⁶	Total HM Grade	Zircon	HiTi Leuc	Leuco- xene	Ilmenite	Over size	Slimes
	Category	(Total HM%)	(Million Tonnes)	(Million Tonnes)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
	Measured	3.0	510	45	8.9	0.71	0.20	0.19	2.4	12	18
Thunderbird	Indicated	3.0	2,120	140	6.6	0.55	0.18	0.20	1.8	9	16
(low-grade)	Inferred	3.0	600	38	6.3	0.53	0.17	0.20	1.7	8	15
	Total	3.0	3,230	223	6.9	0.57	0.18	0.20	1.9	9	16
Night Train	Inferred	1.2	130	4.2	3.3	0.45	0.18	1.5	0.71	2.2	8.7
(low-grade)	Total	1.2	130	4.2	3.3	0.45	0.18	1.5	0.71	2.2	8.7
	Measured	3.0	510	45	8.9	0.71	0.20	0.19	2.4	12	18
All Dampier Project	Indicated	3.0	2,120	140	6.6	0.55	0.18	0.20	1.8	9	16
(low grade	Inferred	Various	730	42	5.8	0.51	0.17	0.43	1.6	7.2	13
cut-off)	Total	Various	3,360	227	6.8	0.57	0.18	0.25	1.9	8.7	15
	Measured	7.5	220	32	14.5	1.07	0.31	0.27	3.9	15	16
Thunderbird	Indicated	7.5	640	76	11.8	0.90	0.28	0.25	3.3	11	14
(high-grade)	Inferred	7.5	180	20	10.8	0.87	0.27	0.26	3.0	9	13
	Total	7.5	1,050	127	12.2	0.93	0.28	0.26	3.3	11	15
Night Train	Inferred	2.0	50	3.0	5.9	0.82	0.33	2.9	1.06	2.2	10.2
(high-grade)	Total	2.0	50	3.0	5.9	0.82	0.33	2.9	1.06	2.2	10.2
All Daniel	Measured	7.5	220	32	14.5	1.07	0.31	0.27	3.9	15	16
All Dampier Project	Indicated	7.5	640	76	11.8	0.90	0.28	0.25	3.3	11	14
(high grade	Inferred	Various	230	23	9.7	0.85	0.28	0.83	2.6	7.2	12
cut-off)	Total	Various	1,090	130	11.9	0.92	0.29	0.38	3.2	11	14

¹ Night Train: The Mineral Resource estimate was prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer to ASX announcement 31 January 2019 for further details including Table 1. The Mineral Resource reported above 1.2% heavy mineral (HM) cut-off is inclusive of (not additional to) the Mineral Resource reported above 2.0% HM cut-off. Thunderbird: The Mineral Resource estimate was prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer to ASX announcement 5 July 2016 for further details including Table 1. The Dampier Project Mineral Resources are reported inclusive of (not additional to) Ore Reserves. The Mineral Resource reported above 3.0% HM cut-off is inclusive of (not additional to) the Mineral Resource reported above 7.5% HM cut-off.

sln-situ assemblage grade is determined by multiplying the percentage of HM by the percentage of each valuable heavy mineral within the heavy mineral assemblage at the resource block model scale.

²Total HM is within the 38µm to 1mm size fraction and reported as a percentage of the total material, slimes is the -38µm fraction and oversize is the +1mm fraction.

Tonnes and grades have been rounded to reflect the relative accuracy and confidence level of the estimate, thus the sum of columns may not equal.

⁴ Night Train: Estimates of Mineral Assemblage are presented as percentages of the Heavy Mineral (HM) component of the deposit, as determined by magnetic separation, QEMSCAN™ and XRF for one of 12 composite samples. Magnetic fractions were analysed by QEMSCAN™ for mineral determination as follows: Ilmenite: 40-70% TiO₂ >90% Liberation; leucoxene: 70-90% TiO₂ >90% Liberation; high tinaium leucoxene (HiTi leucoxene) and rutile 90% TiO₂ >90% Liberation and zircon: 66.7% ZrO₂+HfO₂ >90% Liberation. The non-magnetic fraction was submitted for XRF analysis and minerals determined as follows: zircon: ZrO₂+HfO₂/0.667 and HiTi leucoxene: TiO₂/0.94. HM assemblage determination was by the QEMSCAN™ process for 11 of 12 composite samples which uses observed mass and chemistry to classify particles according to their average chemistry, and then report mineral abundance by dominant % mass in particle. For the TiO₂ minerals the following breakpoints were used to distinguish between Ilmenite 40% to 70% TiO₂, eneming of the heavy mineral was not required. Thunderbird: estimates of Mineral Assemblage are presented as percentages of the HM component of the deposit, as determined by magnetic separation, QEMSCAN™ and XRF. Magnetic fractions were analysed by QEMSCAN™ for mineral determination as follows: Ilmenite: 40-70% TiO₂ >90% Liberation; leucoxene: 70-94% TiO₂ >90% Liberation; HiTi leucoxene: 294% TiO₂ >90% Liberation; and zircon: 66.7% ZrO₂+HfO₂ >90% Liberation. The non-magnetic fraction was submitted for XRF analysis and minerals determined as follows: zircon: ZrO₂+HfO₂/0.667 and HiTi leucoxene: TiO₂/0.94.

⁶ The contained in-situ tonnes derived from HM and material tonnes from information in the Mineral Resource tables

SHEFFIELD MINERAL RESOURCES FOR DAMPIER PROJECT AT 31 MARCH 2020 (HM assemblage)

Summary of M	lineral Resour	ce ^{1,2,3}					HM Ass	semblage4		_	
Deposit	Mineral Resource	Cut off	Material	In-situ Total HM ⁶	Total HM Grade	Zircon	HiTi Leuc⁵	Leuco- xene	Ilmenite	Over size	Slimes
	Category	(Total HM%)	(Million Tonnes)	(Million Tonnes)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
	Measured	3.0	510	45	8.9	8.0	2.3	2.2	27	12	18
Thunderbird	Indicated	3.0	2,120	140	6.6	8.4	2.7	3.1	28	9	16
(low-grade)	Inferred	3.0	600	38	6.3	8.4	2.6	3.2	28	8	15
	Total	3.0	3,230	223	6.9	8.3	2.6	2.9	28	9	16
Night Train	Inferred	1.2	130	4.2	3.3	14	5.4	46	22	2.2	8.7
(low-grade)	Total	1.2	130	4.2	3.3	14	5.4	46	22	2.2	8.7
All Dampier	Measured	3.0	510	45	8.9	8.0	2.3	2.2	27	12	18
Project	Indicated	3.0	2,120	140	6.6	8.4	2.7	3.1	28	9	16
(low grade	Inferred	Various	730	42	5.8	8.9	2.9	7.5	27	7.2	13
cut-off)	Total	Various	3,360	227	6.8	8.4	2.7	3.7	28	8.7	15
	Measured	7.5	220	32	14.5	7.4	2.1	1.9	27	15	16
Thunderbird	Indicated	7.5	640	76	11.8	7.6	2.4	2.1	28	11	14
(high-grade)	Inferred	7.5	180	20	10.8	8.0	2.5	2.4	28	9	13
	Total	7.5	1,050	127	12.2	7.6	2.3	2.1	27	11	15
Night Train	Inferred	2.0	50	3.0	5.9	14	5.6	49	18	2.2	10.2
(high-grade)	Total	2.0	50	3.0	5.9	14	5.6	49	18	2.2	10.2
All Domnier	Measured	7.5	220	32	14.5	7.4	2.1	1.9	27	15	16
All Dampier Project	Indicated	7.5	640	76	11.8	7.6	2.4	2.1	28	11	14
(high grade	Inferred	Various	230	23	9.7	8.8	2.9	8.6	27	7.2	12
cut-off)	Total	Various	1,090	130	11.9	7.8	2.4	3.2	27	11	14

¹ Night Train: The Mineral Resource estimate was prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer to ASX announcement 31 January 2019 for further details including Table 1. The Night Train Mineral Resource reported above 1.2% heavy mineral (HM) cut-off is inclusive of (not additional to) the Mineral Resource reported above 2.0% HM cut-off. Thunderbird: The Mineral Resource estimate was prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer to ASX announcement 5 July 2016 for further details including Table 1. The Dampier Project Mineral Resources are reported inclusive of (not additional to) Ore Reserves. Thunderbird: The Mineral Resource reported above 3.0% HM cut-off is inclusive of (not additional to) the Mineral Resource reported above 7.5% HM cut-off.

² Total HM is within the 38µm to 1mm size fraction and reported as a percentage of the total material, slimes is the -38µm fraction and oversize is the +1mm fraction.

³Tonnes and grades have been rounded to reflect the relative accuracy and confidence level of the estimate, thus the sum of columns may not equal.

⁴ Night Train: Estimates of Mineral Assemblage are presented as percentages of the HM component of the deposit, as determined by magnetic separation, QEMSCAN™ and XRF for one of 12 composite samples. Magnetic fractions were analysed by QEMSCAN™ for mineral determination as follows: Ilmenite: 40-70% TiO₂ >90% Liberation; leucoxene: 70-90% TiO₂ >90% Liberation; High titanium leucoxene (HiTi leucoxene) and rutile 90% TiO₂ >90% Liberation, and zircon: 66.7% ZrO₂+HfO₂ >90% Liberation. The non-magnetic fraction was submitted for XRF analysis and minerals determined as follows: zircon: ZrO₂+HfO₂/0.667 and HiTi leucoxene: TiO₂/0.94. HM assemblage determination-was by the QEMSCAN™ process for 11 of 12 composite samples which uses observed mass and chemistry to classify particles according to their average chemistry, and then report mineral abundance by dominant % mass in particle. For the TiO₂ minerals the following breakpoints were used to distinguish between Ilmenite 40% to 70% TiO₂, Leucoxene 70% to 90% TiO₂, HiTi leucoxene and rutile > 90%, Screening of the heavy mineral was not required. Thunderbird: estimates of Mineral Assemblage are presented as percentages of the HM component of the deposit, as determined by magnetic separation, QEMSCAN™ and XRF. Magnetic fractions were analysed by QEMSCAN™ for mineral determination as follows: Ilmenite: 40-70% TiO₂ >90% Liberation; leucoxene: 70-94% TiO₂ >90% Liberation; and zircon: 66.7% ZrO₂+HfO₂ >90% Liberation. The non-magnetic fraction was submitted for XRF analysis and minerals determined as follows: zircon: ZrO₂+HfO₂/0.667 and HiTi leucoxene: TiO₂/0.94.

⁵HiTi leucoxene and rutile (%) combined for Night Train at a >90% TiO₂ (as one assemblage sample utilised=> 90% rutile and HiTi leucoxene), HiTi leucoxene for Thunderbird > 94% TiO₂

⁶ The contained in-situ tonnes derived from HM and material tonnes from information in the Mineral Resource tables.

SHEFFIELD MINERAL RESOURCE FOR DAMPIER PROJECT AT 31 MARCH 2020 (in-situ tonnes)

Summary of M	lineral Resour	°Ce ^{1,2,3}				In-situ	Tonnes ⁴		
Deposit	Mineral Resource	Cut off	Material	In-situ Total HM ⁶	Zircon	HiTi Leuc ⁵	Leucoxene	Ilmenite	Total VHM
	Category	(Total HM%)	(Million Tonnes)	(Million Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)
	Measured	3.0	510	45	3,600	1,000	1,000	12,000	17,700
Thunderbird	Indicated	3.0	2,120	140	11,800	3,800	4,300	39,100	59,000
(low-grade)	Inferred	3.0	600	38	3,200	1,000	1,200	10,500	15,900
	Total	3.0	3,230	223	18,600	5,900	6,500	61,700	92,600
Night Train	Inferred	1.2	130	4.2	560	220	1,900	900	3,590
(low-grade)	Total	1.2	130	4.2	560	220	1,900	900	3,590
All Domnion	Measured	3.0	510	45	3,600	1,000	1000	12,000	17,700
All Dampier Project	Indicated	3.0	2,120	140	11,800	3,800	4,300	39,100	59,000
(low grade	Inferred	Various	730	42	3,760	1,220	3,100	11,400	19,490
cut-off)	Total	Various	3,360	227	19,160	6,020	8,400	62,600	96,190
	Measured	7.5	220	32	2,300	700	600	8,400	12,000
Thunderbird	Indicated	7.5	640	76	5,800	1,800	1,600	21,000	30,200
(high-grade)	Inferred	7.5	180	20	1,600	500	500	5,600	8,200
	Total	7.5	1,050	127	9,700	3,000	2,700	35,000	50,400
Night Train	Inferred	2.0	50	3.0	420	170	1,500	540	2,600
(high-grade)	Total	2.0	50	3.0	420	170	1,500	540	2,600
	Measured	7.5	220	32	2,300	700	600	8,400	12,000
All Dampier Project	Indicated	7.5	640	76	5,800	1,800	1,600	21,000	30,200
(high grade	Inferred	Various	230	23	2,020	670	2,000	6,140	10,800
cut-off)	Total	Various	1,090	130	10,120	3,170	4,200	35,540	53,000

¹ Night Train: The Mineral Resource estimate was prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer to ASX announcement 31 January 2019 for further details including Table 1. The Night Train Mineral Resource reported above 1.2% heavy mineral (HM) cut-off is inclusive of (not additional to) the Mineral Resource reported above 2.0% HM cut-off. Thunderbird: The Mineral Resource estimate was prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer to ASX announcement 5 July 2016 for further details including Table 1. The Dampier Project Mineral Resources are reported inclusive of (not additional to) Ore Reserves. Thunderbird: The Mineral Resource reported above 3.0% HM cut-off is inclusive of (not additional to) the Mineral Resource reported above 7.5% HM cut-off.

² Total HM is within the 38µm to 1mm size fraction and reported as a percentage of the total material, slimes is the -38µm fraction and oversize is the +1mm fraction.

³Tonnes and grades have been rounded to reflect the relative accuracy and confidence level of the estimate, thus the sum of columns may not equal.

⁴ The contained in-situ tonnes for the valuable heavy minerals were derived from information from the Mineral Resource tables. The in-situ assemblage grade is determined by multiplying the percentage of HM by the percentage of each valuable heavy mineral within the heavy mineral assemblage at the resource block model scale.

 $^{^{5}}$ HiTi leucoxene and rutile (%) combined for Night Train at a >90% TiO₂ (as one assemblage sample utilised=> 90% Rutile and HiTi leucoxene), HiTi leucoxene for Thunderbird > 94% TiO₂

⁶ The contained in-situ tonnes derived from HM and material tonnes from information in the Mineral Resource tables

2) **ENEABBA PROJECT MINERAL RESOURCES**

SHEFFIELD MINERAL RESOURCES FOR THE ENEABBA PROJECT AT 31 MARCH 2020 (in-situ assemblage)

Summary of M	lineral Resoui	rce ^{1,2}					In-situ As	semblage	11	=	
Deposit	Mineral Resource	Cut off	Material	In-situ Total HM ¹²	Total HM Grade	Zircon	Rutile	Leuco- xene	Ilmenite	Over size	Slimes
	Category	(Total HM%)	(Million Tonnes)	(Thousand Tonnes)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
	Measured	1.4	2.6	112	4.3	0.44	0.09	0.10	3.08	11.3	15
Yandanooka ^{4,}	Indicated	1.4	57.7	1,726	3.0	0.37	0.11	0.11	2.08	11.4	15
6,8	Inferred	1.4	0.4	7	1.5	0.16	0.05	0.07	1.01	21.9	20
	Total	1.4	60.8	1,845	3.0	0.37	0.11	0.11	2.11	11.5	15
	Indicated	1.4	20.7	600	2.9	0.40	0.09	0.11	2.07	14.7	14
Durack ^{4,6,7,8}	Inferred	1.4	5.6	148	2.6	0.37	0.07	0.19	1.68	18.3	16
	Total	1.4	26.3	748	2.8	0.39	0.08	0.13	1.99	15.5	14
Downson	Indicated	1.4	35.5	838	2.4	0.33	0.24	0.08	1.26	7.7	14
Drummond Crossing ^{3,4,}	Inferred	1.4	3.3	77	2.3	0.26	0.21	0.06	1.31	7.2	12
6,8	Total	1.4	38.8	915	2.4	0.33	0.24	0.08	1.26	7.7	14
	Indicated	1.4	14.0	261	1.9	0.27	0.24	0.09	0.88	6.2	6
Robbs	Inferred	1.4	3.8	77	2.0	0.29	0.22	0.08	1.02	8.1	6
Cross ^{5,6,8}	Total	1.4	17.8	338	1.9	0.28	0.23	0.09	0.91	6.6	6
	Inferred	1.4	26	516	2.0	0.38	0.28	0.11	0.85	6.9	18
Thomson ^{5,8,}	Total	1.4	26	516	2.0	0.38	0.28	0.11	0.85	6.9	18
West	Indicated	2.0	10.2	748	7.3	0.43	0.48	0.13	3.51	2.3	11
Mine	Inferred	2.0	1.8	48	2.7	0.25	0.23	0.06	1.31	3.0	17
North ^{3,4,6,9}	Total	2.0	12.0	796	6.6	0.40	0.44	0.12	3.18	2.4	12
	Indicated	2.0	6.5	346	5.3	0.53	0.43	0.55	3.49	3.2	15
Ellengail ^{3,4,9,}	Inferred	2.0	5.3	218	4.1	0.41	0.34	0.35	2.55	2.5	15
10	Total	2.0	11.8	565	4.8	0.47	0.39	0.46	3.07	2.9	15
	Measured	1.4	2.6	112	4.3	0.44	0.09	0.10	3.08	11	15
	Indicated	Various	144.6	4,519	3.1	0.37	0.19	0.12	1.92	9	14
Total	Inferred	Various	46.0	1.091	2.4	0.36	0.24	0.14	1.21	8	16
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¹The Mineral Resource estimates were prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer 03 October 2018 ASX announcement for Yandanooka, Durack, Drummond Crossing, West Mine North and Ellengail. Refer to December 2017 Quarterly Activities Report for Robbs Cross and Thomson deposits for further details ²All tonnages and grades have been rounded to reflect the relative uncertainty of the estimate, thus the sums of columns may not equal.

Total heavy mineral (HM) %: Samples from 1989 and 1996 (Drummond Crossing, Ellengail and West Mine North) were analysed using a -75 µm slimes / +2 mm oversize screen. Separation of HM% was by heavy liquid TBE (density 2.84 g/ml) from the -710µm+75µm fraction.

4Total HM %: RGC samples from 1998 and Iluka samples (Drummond Crossing, Durack, Ellengail, West Mine North and Yandanooka) were analysed using a -53 µm slimes /

⁺² mm oversize screen. Separation of total HM% was by heavy liquid TBE (density 2.90 g/ml) from the -710µm+53µm fraction.

5Total HM %: Samples from Robbs Cross and Thomson analysed by Diamantina Laboratories in Perth using a -45 µm slimes / +1 mm oversize screen (method DIA_HLS_45µm_1mm). Separation of total HM% was by heavy liquid TBE (density 2.96g/ml) from the -45 µm+1mm fraction.

Total HM %: Samples from Drummond Crossing, Durack, West Mine North and Yandanooka were analysed by Western Geolabs in Perth using a -53 µm slimes / +1 mm oversize screen. Separation of total HM% was by heavy liquid TBE (density 2.96 g/ml) from the +53µm-1mm fraction. 7Reported below an upper cut-off grade of 35% slimes.

[®]Estimates of mineral assemblage are presented as percentages of the total HM component of the deposit, as determined by QEMSCAN™ analysis. For the TiO₂ minerals specific breakpoints are used to distinguish between rutile (>95% TiO₂), leucoxene (85-95% TiO₂) and ilmenite (<55-85% TiO₂).

⁹At West Mine North and Ellengail mineral assemblage data determined by Iluka using Method 4 (HM concentrate is separated into magnetics and non-magnetics) was used with the Sheffield QEMSCANTM data

¹⁰At Ellengail mineral assemblage data determined by Iluka using Method 3 (magnetic separation and XRF) was used with the Sheffield QEMSCANTM data and Iluka Method 4 11The in-situ assemblage grade is determined by multiplying the percentage of HM by the percentage of each valuable heavy mineral within the heavy mineral assemblage at the resource block model scale.

¹² The contained in-situ tonnes derived from HM and material tonnes from information in the Mineral Resource tables

SHEFFIELD MINERAL RESOURCE FOR ENEABBA PROJECT AT 31 MARCH 2020 (HM assemblage)

Summary of M	ineral Resourc	e ^{1,2}					HM Asse	mblage ^{8,9,:}	10	_	
Deposit	Mineral Resource	Cut off	Material	In-situ Total HM ¹¹	Total HM Grade	Zircon	Rutile	Leuco- xene	Ilmenite	Over size	Slimes
	Category	(Total HM%)	(Million Tonnes)	(Thousand Tonnes)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
	Measured	1.4	2.6	112	4.3	10	2.1	2.3	72	11.3	15
Yandanooka ^{4,}	Indicated	1.4	57.7	1,726	3.0	12	3.6	3.7	69	11.4	15
6,8	Inferred	1.4	0.4	7	1.5	11	3.0	4.4	68	21.9	20
	Total	1.4	60.8	1,845	3.0	12	3.5	3.6	70	11.5	15
	Indicated	1.4	20.7	600	2.9	14	2.9	3.7	71	14.7	14
Durack ^{4,6,7,8}	Inferred	1.4	5.6	148	2.6	14	2.6	7.4	64	18.3	16
	Total	1.4	26.3	748	2.8	14	2.9	4.4	70	15.5	14
Durananana	Indicated	1.4	35.5	838	2.4	14	10.3	3.4	53	7.7	14
Drummond Crossing ^{3,4,}	Inferred	1.4	3.3	77	2.3	11	9.0	2.7	56	7.2	12
6,8	Total	1.4	38.8	915	2.4	14	10.2	3.4	54	7.7	14
	Indicated	1.4	14.0	261	1.9	15	12.7	5.0	47	6.2	6
Robbs Cross ^{5,6,8}	Inferred	1.4	3.8	77	2.0	14	10.9	4.1	50	8.1	6
Crosso,o,o	Total	1.4	17.8	338	1.9	15	12.3	4.8	48	6.6	6
	Inferred	1.4	26	516	2.0	19	13.8	5.4	42	6.9	18
Thomson ^{5,8,}	Total	1.4	26	516	2.0	19	13.8	5.4	42	6.9	18
West	Indicated	2.0	10.2	748	7.3	6	6.5	1.8	48	2.3	11
Mine	Inferred	2.0	1.8	48	2.7	9	8.6	2.1	50	3.0	17
North ^{3,4,6,9,}	Total	2.0	12.0	796	6.6	6	6.6	1.8	48	2.4	12
	Indicated	2.0	6.5	346	5.3	10	8.0	10.4	66	3.2	15
Ellengail ^{3,4,9,}	Inferred	2.0	5.3	218	4.1	10	8.2	8.4	62	2.5	15
10	Total	2.0	11.8	565	4.8	10	8.1	9.6	64	2.9	15
	Measured	1.4	2.6	112	4.3	10	2.1	2.3	72	11	15
	Indicated	Various	144.6	4,519	3.1	12	6.1	3.9	62	9	14
Total	Inferred	Various	46.0	1,091	2.4	15	10.3	5.8	51	8	16
	Total	Various	193.3	5,723	3.0	12	6.8	4.2	60	9	14

¹ The Mineral Resource estimates were prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer 03 October 2018 ASX announcement for Yandanooka, Durack, Drummond Crossing, West Mine North and Ellengail. Refer to December 2017 Quarterly Activities Report for Robbs Cross and Thomson deposits for further details

²All tonnages and grades have been rounded to reflect the relative uncertainty of the estimate, thus the sums of columns may not equal.

³Total heavy mineral (HM) %: Samples from 1989 and 1996 (Drummond Crossing, Ellengail and West Mine North) were analysed using a -75µm slimes / +2 mm oversize screen. Separation of HM% was by heavy liquid TBE (density 2.84 g/ml) from the -710µm+75µm fraction.

⁴Total HM %: RGC samples from 1998 and lluka samples (Drummond Crossing, Durack, Ellengail, West Mine North and Yandanooka) were analysed using a -53 μm slimes / +2 mm oversize screen. Separation of total HM% was by heavy liquid TBE (density 2.90 g/ml) from the -710μm+53μm fraction.

5Total HM %: Samples from Robbs Cross and Thomson analysed by Diamantina Laboratories in Perth using a -45μm slimes / +1mm oversize screen (method

DIA_HLS_45µm_1mm). Separation of total HM% was by heavy liquid TBE (density 2.96g/ml) from the -45 µm+1mm fraction.

*Total HM %: Samples from Drummond Crossing, Durack, West Mine North and Yandanooka were analysed by Western Geolabs in Perth using a -53 µm slimes / +1 mm oversize screen. Separation of total HM% was by heavy liquid TBE (density 2.96g/ml) from the +53µm-1mm fraction. Reported below an upper cut-off grade of 35% slimes.

^{*}Estimates of mineral assemblage are presented as percentages of the total HM component of the deposit, as determined by QEMSCAN™ analysis. For the TiO₂ minerals specific

breakpoints are used to distinguish between rutile (>95% TiO₂), leucoxene (85-95% TiO₂) and ilmenite (<55-85% TiO₂).

9At West Mine North and Ellengail mineral assemblage data determined by Iluka using Method 4 (HM concentrate is separated into magnetics and non-magnetics) was used with the Sheffield QEMSCAN™ data

¹ºAt Ellengail mineral assemblage data determined by Iluka using Method 3 (magnetic separation and XRF analysis) was used with the Sheffield QEMSCAN™ data and Iluka

¹¹ The contained in-situ tonnes derived from HM and material tonnes from information in the Mineral Resource tables

SHEFFIELD MINERAL RESOURCE FOR ENEABBA PROJECT AT 31 MARCH 2020 (in-situ tonnes)

Summary of Min	eral Resource	1,2,3				In-situ T	onnes		
Deposit	Mineral Resource	Cut off	Material	In-situ Total HM ¹¹	Zircon	Rutile	Leuco- xene	Ilmenite	Total VHM
	Category	(Total H M %)	(Million Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)
	Measured	1.4	2.6	112	12	2	3	81	98
Yandanooka ^{,4,}	Indicated	1.4	57.7	1,726	212	63	63	1,197	1,535
6,8	Inferred	1.4	0.4	7	1	0.2	0.3	4	6
	Total	1.4	60.8	1,845	224	65	66	1,283	1,639
	Indicated	1.4	20.7	600	82	18	22	429	551
Durack ^{4,6,7,8}	Inferred	1.4	5.6	148	21	4	11	95	130
	Total	1.4	26.3	748	104	21	33	523	681
	Indicated	1.4	35.5	838	118	86	29	447	680
Drummond	Inferred	1.4	3.3	77	9	7	2	43	61
Crossing ^{3,4,6,8}	Total	1.4	38.8	915	127	93	31	490	741
	Indicated	1.4	14.0	261	38	33	13	123	208
Robbs	Inferred	1.4	3.8	77	11	8	3	39	61
Cross ^{5,6,8}	Total	1.4	17.8	338	50	41	16	162	269
	Inferred	1.4	26	516	97	71	28	219	415
Thomson ^{5,8,}	Total	1.4	26	516	97	71	28	219	415
West	Indicated	2.0	10.2	748	44	49	13	359	465
Mine	Inferred	2.0	1.8	48	5	4	1	24	34
North ^{3,4,6,9,}	Total	2.0	12.0	796	48	53	14	383	498
	Indicated	2.0	6.5	346	34	28	36	227	325
Ellengail ^{3,4,9,10}	Inferred	2.0	5.3	218	22	18	18	136	193
-	Total	2.0	11.8	565	56	46	54	363	519
	Measured	1.4	2.6	112	12	2	3	81	98
	Indicated	Various	144.6	4,519	529	276	176	2,782	3,764
Total	Inferred	Various	46.0	1,091	165	113	64	559	900
	Total	Various	193.3	5,723	705	392	242	3,423	4,762

¹ The Mineral Resource estimates were prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer 03 October 2018 ASX announcement for Yandanooka, Durack, Drummond Crossing, West Mine North and Ellengail. Refer to December 2017 Quarterly Activities Report for Robbs Cross and Thomson deposits for further details

Durack, Drummond Crossing, West Mine North and Ellengail. Refer to December 2017 (Quarterly Activities Report for Robbs Cross and Thomson deposits for further details 'All tonnages and grades have been rounded to reflect the relative uncertainty of the estimate, thus the sums of columns may not equal.

3Total heavy mineral (HM) %: Samples from 1989 and 1996 (Drummond Crossing, Ellengail and West Mine North) were analysed using a -75µm slimes / +2mm oversize screen. Separation of HM% was by heavy liquid TBE (density 2.84 g/ml) from the -710µm+75µm fraction.

4Total HM %: RGC samples from 1998 and Iluka samples (Drummond Crossing, Durack, Ellengail, West Mine North and Yandanooka) were analysed using a -53 µm slimes / +2 mm oversize screen. Separation of total HM% was by heavy liquid TBE (density 2.90 g/ml) from the -710µm+53µm fraction.

5Total HM %: Samples from Robbs Cross and Thomson analysed by Diamantina Laboratories in Perth using a -45 µm slimes / +1 mm oversize screen (method DIA_HLS_45µm_1mm). Separation of total HM% was by heavy liquid TBE (density 2.96g/ml) from the -45 µm+1mm fraction.

Total HM %: Samples from Drummond Crossing, Durack, West Mine North and Yandanooka were analysed by Western Geolabs in Perth using a -53µm slimes / +1mm oversize screen. Separation of total HM% was by heavy liquid TBE (density 2.96 g/ml) from the +53µm-1mm fraction.

Reported below an upper cut-off grade of 35% slimes.

^{*}Estimates of mineral assemblage are presented as percentages of the total HM) component of the deposit, as determined by QEMS CAN™ analysis. For the TiO₂ minerals specific breakpoints are used to distinguish between rutile (>95% TiO₂), leucoxene (85-95% TiO₂) and ilmenite (<55-85% TiO₂).

⁹At West Mine North and Ellengail mineral assemblage data determined by lluka using Method 4 (HM concentrate is separated into magnetics and non-magnetics) was used with

the Sheffield QEMSCAN™ data

¹¹At Ellengail mineral assemblage data determined by Iluka using Method 3 (magnetic separation and XRF analysis) was used with the Sheffield QEMSCAN™ data and Iluka

¹¹ The contained in-situ tonnes derived from HM and material tonnes from information in the Mineral Resource tables

3) McCalls Project Mineral Resources

SHEFFIELD MINERAL RESOURCES FOR McCALLS PROJECT AT 31 MARCH 2020 (in-situ assemblage)

Summary o	f Mineral Resou	ırces ^{1,2,3,4}					In-situ As	ssemblage ⁵	.6	_	
Deposit	Mineral Resource	Cut off	Material	In-situ Total HM ⁶	Total HM Grade	Zircon	Rutile	Leuco- xene	Ilmenite	Over size	Slimes
	Category	(Total HM%)	(Million Tonnes)	(Million Tonnes)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
	Indicated	1.1	1,630	23.3	1.4	0.07	0.05	0.04	1.10	1.1	21
McCalls	Inferred	1.1	1,980	24.4	1.2	0.06	0.05	0.04	1.00	1.1	26
	Total	1.1	3,600	47.7	1.3	0.07	0.05	0.04	1.05	1.1	24
Mindarra	Inferred	1.1	2,200	36.3	1.6	0.07	0.01	0.05	1.32	5.1	20
Springs ⁷	Total	1.1	2,200	36.3	1.6	0.07	0.01	0.05	1.32	5.1	20
	Indicated	1.1	1,630	23.3	1.4	0.07	0.05	0.04	1.10	1.1	21
Total	Inferred	1.1	4,180	60.7	1.5	0.07	0.03	0.05	1.17	3.2	23
	Total	1.1	5,800	84.0	1.4	0.07	0.03	0.04	1.15	2.6	22

SHEFFIELD MINERAL RESOURCES FOR McCALLS PROJECT AT 31 MARCH 2020 (HM assemblage)

Summary o	f Mineral Resou	Irces ^{1,2,3,4,7}					HM Asse	emblage ^{5, 6}	6	<u>-</u>	
Deposit	Mineral Resource	Cut off	Material	In-situ Total HM ⁶	Total HM Grade	Zircon	Rutile	Leuco- xene	Ilmenite	Over size	Slimes
	Category	(Total HM%)	(Million Tonnes)	(Million Tonnes)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
	Indicated	1.1	1,630	23.3	1.4	5.2	3.3	2.8	77	1.1	21
McCalls	Inferred	1.1	1,980	24.4	1.2	5.0	3.8	3.2	81	1.1	26
	Total	1.1	3,600	47.7	1.3	5.1	3.6	3.0	79	1.1	24
Mindarra	Inferred	1.1	2,200	36.3	1.6	4.2	0.9	3.1	80	5.1	20
Springs ⁷	Total	1.1	2,200	36.3	1.6	4.2	0.9	3.1	80	5.1	20
	Indicated	1.1	1,630	23.3	1.4	5.2	3.3	2.8	77	1.1	21
Total	Inferred	1.1	4,180	60.7	1.5	4.5	2.1	3.2	81	3.2	23
	Total	1.1	5,800	84.0	1.4	4.7	2.4	3.1	79	2.6	22

¹The Mineral Resource estimates for McCalls and Mindarra Springs were prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer to ASX announcement 03 October 2018

²All tonnages and grades have been rounded to reflect the relative uncertainty of the estimate, thus the sums of columns may not equal ³Total heavy mineral (HM) is within the 45µm to 1mm size fraction and reported as a percentage of the total material, slimes is the -45µm fraction and oversize is the +1mm

⁴Reported below an upper cut-off grade of 35% slimes

Estimates of mineral assemblage (Sheffield) are presented as percentages of the total HM) component of the deposit, as determined by QEMSCAN™ analysis. For the TiO₂ minerals specific breakpoints are used to distinguish between rutile (>95% TiO₂), leucoxene (85-95% TiO₂) and ilmenite (<55-85% TiO₂). Estimates of mineral assemblage (BHP) HM assemblage determination was by magnetic separation and observation (grain-counting)

¹ The contained in-situ tonnes derived from HM and material tonnes from information in the Mineral Resource tables

⁷Excludes Mineral Resources within the Mogumber Nature Reserve

SHEFFIELD MINERAL RESOURCES FOR McCALLS PROJECT AT 31 MARCH 2020 (in-situ tonnes)

Summary of	Mineral Resour	Ces ^{1,2,3,4}				In-si	tu Tonnes		
Deposit	Mineral Resource	Cut off	Material	In-situ Total HM ⁷	Zircon	Rutile	Leuco- xene	Ilmenite	Total VHM
	Category	(Total HM%)	(Million Tonnes)	(Million Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)	(Thousand Tonnes)
	Indicated	1.1	1,630	23.3	1,210	770	650	17,940	20,570
McCalls	Inferred	1.1	1,980	24.4	1,210	930	790	19,790	22,720
	Total	1.1	3,600	47.7	2,430	1,700	1,430	37,730	43,290
Mindarra	Inferred	1.1	2,200	36.3	1,520	320	1,130	29,080	32,050
Springs ⁸	Total	1.1	2,200	36.3	1,520	320	1,130	29,080	32,050
	Indicated	1.1	1,630	23.3	1,210	770	650	17,940	20,570
Total	Inferred	1.1	4,180	60.7	2,740	1,250	1,920	48,860	54,770
	Total	1.1	5,800	84.0	3,950	2,020	2,570	66,810	75,340

¹The Mineral Resource estimates for McCalls and Mindarra Springs were prepared by Optiro Pty Ltd and first disclosed under the JORC Code (2012) refer to ASX announcement

All tonnages and grades have been rounded to reflect the relative uncertainty of the estimate, thus the sums of columns may not equal

Total heavy mineral (HM) is within the 45µm to 1mm size fraction and reported as a percentage of the total material, slimes is the -45µm fraction and oversize is the +1mm fraction
4Reported below an upper cut-off grade of 35% slimes

Estimates of mineral assemblage (Sheffield) are presented as percentages of the total HM component of the deposit, as determined by QEMSCAN™ analysis. For the TiO₂ minerals specific breakpoints are used to distinguish between rutile (>95% TiO₂), leucoxene (85-95% TiO₂) and ilmenite (<55-85% TiO₂). Estimates of mineral assemblage (BHP) HM assemblage determination was by magnetic separation and observation (grain-counting)

The in-situ assemblage grade is determined by multiplying the percentage of HM by the percentage of each valuable heavy mineral within the heavy mineral assemblage at the resource block model scale

⁷The contained in-situ tonnes derived from HM and material tonnes from information in the Mineral Resource tables

⁸Excludes mineralisation within the Mogumber Nature Reserve

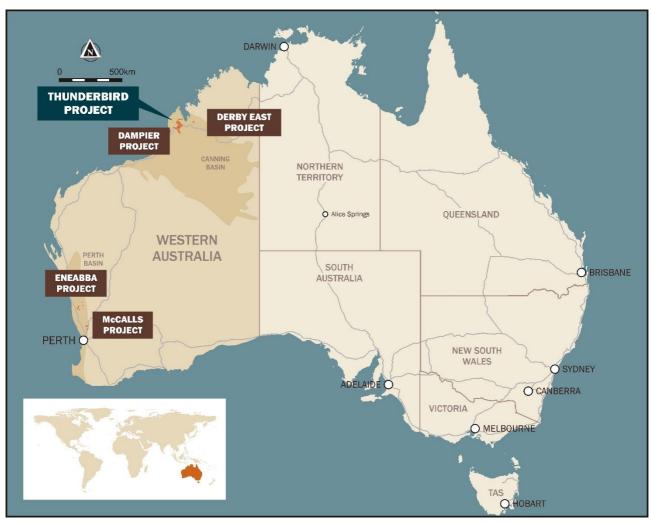


Figure 4: Location of Sheffield's Mineral Sands Projects

GOVERNANCE AND INTERNAL CONTROLS

Mineral Resource and Ore Reserve are compiled by qualified Sheffield personnel and/or independent consultants following industry standard methodology and techniques. The underlying data, methodology, techniques and assumptions on which estimates are prepared are subject to internal peer review by senior Company personnel, as is JORC compliance. Where deemed necessary or appropriate, estimates are reviewed by independent consultants. Competent Persons named by the Company are members of the Australasian Institute of Mining and Metallurgy and/or the Australian Institute of Geoscientists and qualify as Competent Persons as defined in the JORC Code 2012.

COMPETENT PERSONS AND COMPLIANCE STATEMENTS

The information in this report that relates to Exploration Results is based on information compiled by Mr Seb Gray, a Competent Person who is a Member of Australian Institute of Geoscientists (AlG). Mr Gray is a full-time employee of Sheffield Resources Ltd and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Gray consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The Company's Ore Reserves and Mineral Resources Statement is based on information first reported in previous ASX announcements by the Company. These announcements are listed below and are available to view on Sheffield's website www.sheffieldresources.com.au. Mineral Resources and Ore Reserves reported for the Dampier Project and Mineral Resources reported for the Eneabba and McCalls Projects, are prepared and disclosed under the JORC Code 2012. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant original market announcement continue to apply and have not materially changed.

The information in this report that relates to the estimation of the Ore Reserve is based on information compiled by Mr Per Scrimshaw, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Scrimshaw is

employed by Entech Pty Ltd and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Scrimshaw consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to the estimation of the Mineral Resources is based on information compiled by Mrs Christine Standing, a Competent Person who is a Member of the Australian Institute of Geoscientists (AIG) and the Australasian Institute of Mining and Metallurgy (AusIMM). Mrs Standing is a full-time employee of Optiro Pty Ltd and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which she is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mrs Standing consents to the inclusion in this report of the matters based on her information in the form and context in which it appears.

The information in this report that relates to the Thunderbird Mineral Resource is based on information compiled under the guidance of Mr Mark Teakle, a Competent Person who is a Member of the Australian Institute of Geoscientists (AIG) and the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Teakle is a full-time employee of Sheffield Resources Ltd and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Teakle consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The Competent Persons for reporting of Mineral Resources and Ore Reserves in the relevant original market announcements are listed below. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the relevant original market announcement.

Ore Reserves and Mineral Resources prepared and first disclosed under the JORC Code 2012):

Item	Report title	Report Date	Competent Person(s)
Thunderbird Ore Reserve	Thunderbird 10% Ore Reserve Increase	31 July 2019	P. Scrimshaw
Thunderbird Mineral Resource	Sheffield Doubles Measured Mineral Resource at Thunderbird	05 July 2016	M. Teakle, C. Standing
Night Train Mineral Resource	High Grade Maiden Mineral Resource at Night Train	31 January 2019	C. Standing
Robbs Cross Mineral Resource	Quarterly Activities Report for The Period Ended 31 December 2017	30 January 2018	C. Standing
Thomson Mineral Resource	Quarterly Activities Report for The Period Ended 31 December 2017	30 January 2018	C. Standing
Yandanooka Mineral Resource	Mineral Resource and Ore Reserve Statement	03 October 2018	C. Standing
Durack Mineral Resource	Mineral Resource and Ore Reserve Statement	03 October 2018	C. Standing
Drummond Crossing Mineral Resource	Mineral Resource and Ore Reserve Statement	03 October 2018	C. Standing
West Mine North Mineral Resource	Mineral Resource and Ore Reserve Statement	03 October 2018	C. Standing
Ellengail Mineral Resource	Mineral Resource and Ore Reserve Statement	03 October 2018	C. Standing
McCalls Mineral Resource	Mineral Resource and Ore Reserve Statement	03 October 2018	C. Standing
Mindarra Springs Mineral Resource	Mineral Resource and Ore Reserve Statement	03 October 2018	C. Standing

Item	Name	Company	Professional Affiliation
Exploration Results	Mr Seb Gray	Sheffield Resources	MAIG
Mineral Resource Reporting	Mr Mark Teakle	Sheffield Resources	MAIG, MAusIMM
Mineral Resource Estimation	Mrs Christine Standing	Optiro	MAIG, MAusIMM
Ore Reserve	Mr Per Scrimshaw	Entech	MAusIMM

SUPPORTING INFORMATION REQUIRED UNDER ASX LISTING RULES, CHAPTER 5

The supporting information below is required, under Chapter 5 of the ASX Listing Rules, to be included in market announcements reporting estimates of Mineral Resources and Ore Reserves.

PREVIOUSLY REPORTED INFORMATION

This report includes information that relates to Exploration Results, Mineral Resources and Ore Reserves prepared and first disclosed under the JORC Code 2012 and a Bankable Feasibility Study. The information was extracted from the Company's previous ASX announcements as follows:

- Mineral Resource and Ore Reserve Statement: "MINERAL RESOURCE AND ORE RESERVE STATEMENT" 24 September 2019
- Mineral Resource and Reserve Statement: "MINERAL RESOURCE AND ORE RESERVE STATEMENT" 24 September 2019
- Thunderbird Ore Reserve Update: "THUNDERBIRD ORE RESERVE UPDATE" 31 July 2019
- Thunderbird BFS Update: "BFS UPDATE MATERIALLY REDUCES CAPITAL", 31 July 2019
- Bengbu Zhongheng New Materials S&T Co. Ltd binding offtake agreement: "SHEFFIELD SIGNS BINDING PRIMARY ILMENITE OFFTAKE AGREEMENT "01 July 2019
- Regional mineral assembly analysis: "QUARTERLY ACTIVITIES REPORT FOR THE PERIOD ENDED 31 MARCH 2019" 1 May, 2019
- Night Train Inferred Resource and Mineral Assemblage results "HIGH GRADE MAIDEN MINERAL RESOURCE AT NIGHT TRAIN" 31 January 2019
- Bohemia aircore drill results: "NEW LARGE HIGH GRADE DISCOVERY SOUTH OF THUNDERBIRD" 13 November 2018
- Yandanooka, Durack, Drummond Crossing, West Mine North, Ellengail, McCalls and Mindarra Springs Resource Estimates and including Mineral Resource and Ore Statement "MINERAL RESOURCE AND RESERVE STATEMENT" 03 October, 2018
- Thomson and Robbs Cross Mineral Resources: "QUARTERLY ACTIVITIES REPORT FOR THE PERIOD ENDED 31 DECEMBER 2017" 30 January, 2018

These announcements are available to view on Sheffield's website www.sheffieldresources.com.au.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of estimates of Mineral Resources, Ore Reserves and the Bankable Feasibility Study, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the relevant original market announcements.

FORWARD LOOKING AND CAUTIONARY STATEMENTS

The contents of this report reflect various technical and economic conditions at the time of writing. Given the nature of the resources industry, these conditions can change significantly over relatively short periods of time. Consequently, actual results may vary from those contained in this report.

Some statements in this report regarding estimates or future events are forward-looking statements. They include indications of, and guidance on, future earnings, cash flow, costs and financial performance. Forward-looking statements include, but are not limited to, statements preceded by words such as "planned", "expected", "projected", "estimated", "may", "scheduled", "intends", "anticipates", "believes", "potential", "predict", "foresee", "proposed", "aim", "target", "opportunity", "could", "nominal", "conceptual" and similar expressions. Forward-looking statements, opinions and estimates included in this report are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on interpretations of current market conditions. Forward-looking statements are provided as a general guide only and should not be relied on as a guarantee of future performance. Forward-looking statements may be affected by a range of variables that could cause actual results to differ from estimated results and may cause the Company's actual performance and financial results in future periods to materially differ from any projections of future performance or results expressed or implied by such forward-looking statements. So there can be no assurance that actual outcomes will not materially differ from these forward-looking statements.

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Sheffield Resources Limited	
ABN	Quarter ended ("current quarter")
29 125 811 083	31 March 2020

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
1.	Cash flows from operating activities		
1.1	Receipts from customers	-	2
1.2	Payments for		
	(a) exploration & evaluation (if expensed)	-	-
	(b) development	(2,210)	(7,435)
	(c) production	-	-
	(d) staff costs	(1,483)	(3,007)
	(e) administration and corporate costs	(181)	(745)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	32	64
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	713	713
1.8	Other (provide details if material)	-	-
1.9	Net cash from / (used in) operating activities	(3,129)	(10,408)

2.	Ca	sh flows from investing activities		
2.1	Pa	yments to acquire:		
	(a)	entities	-	-
	(b)	tenements	-	-
	(c)	property, plant and equipment	-	-
	(d)	exploration & evaluation (if capitalised)	(81)	(1,018)
	(e)	investments	-	-
	(f)	other non-current assets	-	-

ASX Listing Rules Appendix 5B (01/12/19)

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	5
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provision of bonds/guarantees)	-	(67)
2.6	Net cash from / (used in) investing activities	(81)	(1,080)

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	18,000
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	(24)	(1,436)
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	(34)	(113)
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	Net cash from / (used in) financing activities	(58)	16,451

4.	Net increase / (decrease) in cash and cash equivalents for the period	(3,268)	4,963
4.1	Cash and cash equivalents at beginning of period	10,950	2,719
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(3,129)	(10,408)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(81)	(1,080)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(58)	16,451

ASX Listing Rules Appendix 5B (01/12/19) + See chapter 19 of the ASX Listing Rules for defined terms.

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	7,682	7,682

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	2,682	5,950
5.2	Call deposits	5,000	5,000
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	7,682	10,950

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1 – Salary & Directors fees	335
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-

Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments

7.	Financing facilities Note: the term "facility' includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
7.1	Loan facilities	-	-
7.2	Credit standby arrangements	-	-
7.3	Other (please specify)	-	-
7.4	Total financing facilities	-	-
7.5	Unused financing facilities available at qu	arter end	-
7.6	7.6 Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.		

8.	Estimated cash available for future operating activities	\$A'000
8.1	Net cash from / (used in) operating activities (Item 1.9)	(3,129)
8.2	Capitalised exploration & evaluation (Item 2.1(d))	(81)
8.3	Total relevant outgoings (Item 8.1 + Item 8.2)	(3,210)
8.4	Cash and cash equivalents at quarter end (Item 4.6)	7,682
8.5	Unused finance facilities available at quarter end (Item 7.5)	-
8.6	Total available funding (Item 8.4 + Item 8.5)	7,682
8.7	Estimated quarters of funding available (Item 8.6 divided by	2.4

- 8.8 If Item 8.7 is less than 2 quarters, please provide answers to the following questions:
 - 1. Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?

	cash flows for the time being and, if not, why not?
Answe	er:
2.	Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?
Answe	er:
3.	Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?
Answe	er:

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 8 April 2020

Authorised by: By the Board

Notes

- This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
- If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, AASB 6: Exploration for and Evaluation of Mineral Resources and AASB 107: Statement of Cash Flows apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
- 3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
- 4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
- If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.