



2 February 2022

**Clarification regarding Quarterly Activities Report/Appendix 5B Cash Flow Report**

On 31 January 2022, **Astron Corporation Limited (ASX:ATR)** (“Astron”) released the Quarterly Activities Report/Appendix 5B Cash Flow Report for the quarter ended 31 December 2021. Anomalies have been identified in the Appendix 5B.

Accordingly, the revised announcement follows, in which the relevant anomalies have been updated, so this announcement should be used, and the previous announcement disregarded.

**Astron Corporation Limited**

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**ASTRON CORPORATION LIMITED**

ARBN 154 924 553

Incorporated in Hong Kong, company number 1687414

**Notice to the Australian Securities Exchange  
31 January 2022**

## **Quarterly Activities Report**

**Quarter Ended 31 December 2021**

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### **HIGHLIGHTS – DONALD MINERAL SANDS AND RARE EARTH PROJECT**

- Bulk metallurgical pilot test trial completed, final results expected in the coming quarter.
- Feasibility engineering studies have reached 70 per cent completion milestone.
- Planning for additional ore reserve delineation drilling to commence in the first quarter 2022.
- Zircon and Rare Earth product samples provided to potential customers, with favourable responses to product quality and attributes.
- Key organisational appointments made for the next phase of Donald project work.

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### **DONALD MINERAL SANDS AND RARE EARTH PROJECT – OVERVIEW**

The Donald Project is planned as an integrated mineral sands mining and processing operation, located in the Wimmera region of Victoria. The project is expected to constitute a new, major global source of zircon, titanium feedstock, and valuable rare earths. The Donald Project Definitive Feasibility Study (DFS) is underway and is scheduled for completion in the third quarter of 2022.

The Donald tenements (MIN 5532 and RL 2002) contain Ore Reserves of 602 million tonnes (Mt) with a Heavy Mineral (HM) grade of 4.8%. The assemblage of the valuable heavy mineral (VHM) component equates to in-situ zircon reserves of approximately 5.4 Mt of zircon (approximately 5 years of current total global consumption), 17.3 Mt of titanium minerals and 0.5 Mt of monazite. Mineral Resources within the tenements have been estimated to be 2.4 billion tonnes at an HM grade of 4.8%. (Refer Appendix 2). It is expected that Donald Project Ore Reserves and Mineral Resources will underpin commercial production for at least 40 years. The exploration drilling programme planned for the first quarter of 2022 will lead to a refinement of the project's Ore Reserves and Mineral Resources (more details below).

Subject to final confirmation of the DFS, planned production levels are approximately 120 thousand tonnes per annum (ktpa) of zircon (of which 80 per cent is expected to be of a premium grade), over 200 ktpa of titanium dioxide products and 16 ktpa of rare earth concentrate.

For further project information on the Donald Project refer: ASX Release, Progression of the Donald Mineral Sands Project Astron Corporation Limited, December 2021 [www.astronlimited.com](http://www.astronlimited.com).

## **Main Work Streams**

The main work streams for the project: geological evaluation, mining studies, metallurgical and processing test work, engineering studies, regulatory approvals and community engagement, as well as customer engagement for potential sales arrangements, were all progressed during the quarter. Due to COVID-19 related restrictions, in particular border entry requirements in some States, some activities (including preparation for drilling activities) were delayed. As a consequence, the completion of the DFS for the project is now scheduled for the third quarter of 2022, as opposed to the earlier timing indication of mid 2022. A number of initiatives in terms of organisational strengthening, for the next stage of project implementation, also occurred.

The progression to the detailed engineering and DFS stages will enable project economics to be determined with a higher level of certainty. Following the completion of the DFS, Astron plans to provide detailed project economics and undertake project funding initiatives (through a combination of equity and debt) to progress the project to the commitment, construction and production stages.

## ***Geological Evaluation***

A drilling programme has been planned over the Donald deposit within tenement MIN 5532 comprising approximately 6,500 metres (m) of reverse circulation air-core (RCAC) drilling to a depth of up to 25 m, with holes spaced 250 m apart along east-west lines and line spacing of 500 m apart north-south. The drilling was initially planned to commence in the December quarter, however, due to COVID-related restrictions, including access to drill equipment, originally planned to be sourced from Western Australia, the programme has been rescheduled to the first quarter of 2022.

The drilling programme is designed to delineate the 20 to 38 micron fraction of the valuable heavy mineral component of the deposit; this fraction was not included in the earlier geological model as it was not assumed to be recoverable. However, subsequent metallurgical and processing test work has provided confidence in the recovery of the finer grained material. In addition, drilling is expected to analyse more of the rare earth minerals in the deposit, including the xenotime component of the resource. The inclusion of the xenotime component, where the valuable rare elements of Dysprosium (Dy) and Terbium (Tb) are sourced, is expected to enhance overall project economics, through delineation of the composition and overall value of the rare earth component of the ore body expected to be available to be mined.

A second drilling programme is planned in the same area comprising approximately 700 m of sonic drilling to a depth of up to 25 m. The purpose of the drilling is for specific gravity determination, further geotechnical information of the deposit, as well as the recovery of additional bulk samples for further metallurgical test work.

Valuable heavy mineral analysis will also be extended to the generally lower grade shallow depths of the

Loxton Sands formation in the mining licence area of the Donald deposit. The increase in mineral sands prices over the last decade may potentially contribute to the conversion of a higher level of mineralisation, including in this part of the ore body, to valuable heavy mineral ore as part of Ore Reserve estimation studies.

Overall, the results of these programmes will provide valuable information to refine and update geological modelling (leading to an expected revised Mineral Resource and Ore Reserves Statement); further refine the understanding of the metallurgical characteristics of the ore body and facilitate mine planning for incorporation into the DFS.

### ***Metallurgical Test Work***

Mineral Technologies (MT) has been undertaking metallurgical and processing test work for Astron, utilising the product from a pilot wet concentration plant which produced approximately 1,000 tonnes of Donald ore in 2019 and processed this into over 24 tonnes of heavy mineral concentrate (HMC). During the December quarter, MT used 9 tonnes of HMC to complete bulk mineral separation pilot plant trials to produce final products. The preliminary results of the testwork demonstrated that previous laboratory-scale recovery outcomes were able to be replicated at pilot scale. The final results of the recent metallurgical test work are expected to be announced in the March quarter.

The pilot-scale production of final products has enabled Astron to undertake product testing, and provide initial samples to prospective customers.<sup>1</sup>

The test work conducted has provided additional confidence in the ability to achieve commercial-scale processing of the Donald valuable heavy mineral ore to recover HMC and final products of zircon, titania and a rare earth concentrate.

An implication of the testwork for project concept design is the inclusion of a dry separation plant for processing of the titania concentrate to produce a blended titanium dioxide product suitable as a feedstock for chlorinator pigment production.

### ***Engineering Design***

MT is currently progressing structural design work, including detailed engineering, for the mining unit plant, the wet concentrator plant and the concentrate upgrade plant facilities. 3D modelling of plant configuration and site placement, including infrastructure, has been undertaken (see Figures 1 and 2). During the December quarter, engineering work reached approximately the 70 per cent design completion stage, with part of this work based on a planned mining rate of 8 to 10 Mtpa run-of-mine ore feed.

Astron's project team conducted a design review and Hazard Identification Study exercise in conjunction with MT to identify areas of potential project optimisation, as well as areas of risk mitigation, including in terms of

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<sup>1</sup> See ASX Announcement, 14 May 2021, "Clarify Donald Mineral Separation Metallurgical Testwork"

production utilisation levels of key parts of the process. Project flowsheets and design concepts were evaluated to identify areas where efficiencies could be made, for example in product handling and logistics functionality. Attention was also focussed upon the means to reduce off-stream production time through various means including product diversion points and by stockpiling feed for downstream circuits in the event of unforeseen outages or during scheduled maintenance programmes. These flowsheet and design enhancement considerations have been deliberately built into the design stage before moving to the full of DFS design phase.



Figure 1. Donald Project 3D design of wet concentrator plant (WCP) layout.

Power and water option studies have been updated for the current integrated project concept, while telecommunications requirements for the operational stages of the project have been identified and scoped.

Mains power supply connecting the project to the Horsham Terminal Station has been assessed relative to hybrid power options, including both behind the meter solar and mains power connections. Water pipeline design from Taylors Lake Reservoir, 20 kms south-east of Horsham, to the project's fresh water containment pond, has been undertaken. This water source option strengthens the project's water security requirements.

Information and Communications Technology (IC&T) assessments were completed with microwave transmission to provide site communications and connectivity for field services and control systems. The assessment included mine operations and administrative demands for cloud-based technologies.

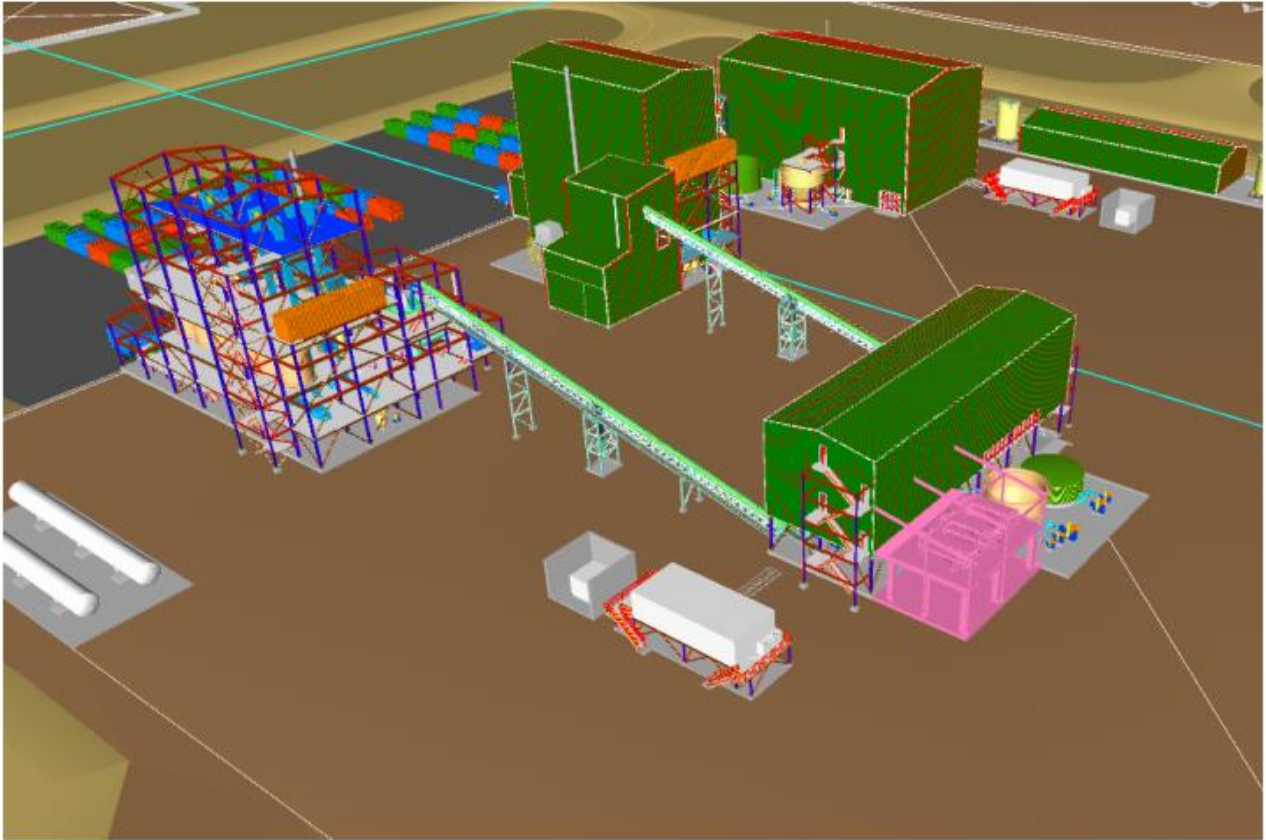


Figure 2. Donald Project. 3D design concept for concentrator upgrade (or mineral processing) facilities layout.

### ***Regulatory Approvals***

Regulatory approvals for the first stage of the planned development of the Donald Project on MIN 5532 are well advanced. The key outstanding regulatory approval is the Work Plan, required to allow mining to be undertaken, as well as related approvals and licences. A body of work, including further noise modelling, has been conducted to facilitate the submission of a Work Plan to the Victorian Government regulators for approval.

During the December quarter, the company's recently appointed Senior Environmental and Approvals Manager formulated a detailed work schedule for the achievement of all outstanding regulatory approvals for the project. A planned timeframe for these main regulatory approvals and the overall project will be announced in early 2022.

### ***Product Testing and Customer Engagement***

Following the production of quantities of product from the pilot plant operation, Astron has provided samples of the zircon, titania and rare earth mixed concentrate to prospective customers for their initial evaluation. During the December quarter, product samples were provided to a further two major zircon customers and

one rare earth concentrate processor. Feedback from these and other downstream industry participants, including zircon millers and ceramic manufacturers, chloride producers and rare earth concentrate processors (all of which are potential customers) has been positive. Specifically, as it relates to zircon, Astron has provided Donald premium zircon samples to two ceramic customers based in China that, based on their analysis and trial use, have found it to be applicable and within their specification requirements.

### **Stakeholders**

As required by Government regulators, and consistent with the Donald project’s commitment to open engagement with all project stakeholders, a Community Engagement Plan (CEP) for the Donald project has been developed, to be made available to regulatory bodies. The CEP maps the methods and timing for engagement with stakeholders during: the final project licencing; construction and operations stages.

As part of the engagement plan, a Community Reference Group (CRG) has been established and terms of reference for the CRG developed. It is planned to hold the first CRG meeting in February 2022 and to implement engagement actions identified in the CEP during the first quarter of 2022. At the appropriate time and as the project progresses, it is expected that the CRG will transition into the Environmental Review Committee (ERC).

### **PRODUCTION**

As the project is at an evaluation and development stage, no commercial production activities are being conducted.

### **EXPENDITURE SUMMARY**

Production Activities	Dec Qtr 2021	YTD 2022 FY
	Nil	Nil
Development Activities	Dec Qtr 2021	YTD 2022 FY
	\$1,006,284	\$2,006,271

Note: the development activities expenditure includes procurement, design and consulting.

### **NIAFARANG MINERAL SANDS PROJECT, SENEGAL**

The Niafarang Project is located within an exploration licence zone covering an area of 397 sq km the Casamance coast of Senegal, West Africa. Astron owns a licence issued under Order Number 09042/MIM/TMG through its subsidiary company, Senegal Mineral Resources (SMR). Environmental and

mining licences were awarded in 2017. A Small Mining Licence (SML) was awarded to Astron and transferred to its Senegalese-based subsidiary.

The project plans to access a high-grade coastal mineral sands deposit using conventional dredge mining and concentrating techniques to produce a heavy mineral concentrate.

No work was undertaken during the quarter related to this project.

## Production

Given the stage of the project, there is currently no production activity.

## EXPENDITURE SUMMARY

Production Activities	Dec Qtr 2021	YTD 2022 FY
	Nil	Nil
Development Activities	Dec Qtr 2021	YTD 2022 FY
	\$70,141	\$149,703

## CORPORATE

During the December quarter, a number of key organisational strengthening initiatives were implemented. These included:

- Non-executive director George Lloyd assumed the role of Chairman on 30 November 2021, replacing Gerry King who retired as Chairman. George has over 30 years' experience in the resources sector in board, corporate finance and business development roles;
- Gerry King remains as an non-executive director.
- Sean Chelius was appointed Donald Project Director. Sean has over 30 years' experience in project management and engineering roles in Australia and internationally across mineral sectors and involving large-scale and complex mining and processing developments;
- Dr John Yeates was appointed Senior Environmental & Approvals Manager. John has over 40 years' experience in government, consulting and in the private sector in environmental assessment, management and audit roles, as well as in stakeholder engagement and government relations; and
- Peter Coppin was appointed Senior Geologist. Peter has over 20 years' experience in senior geological roles, from exploration through to geological mine planning across mineral sectors, including gold and base metals.

These internal appointments supplement existing internal resources as well as specialist consulting services with expertise in project management, processing engineering and plant design, rare earths, tailings



management and environmental and regulatory consulting.

## **ASTRON CHINA**

Astron Corporation, through its subsidiary Astron Titanium (Yingkou) Ltd, owns and operates a mineral sands processing plant in Yingkou, Liaoning, China.

The revenue of Astron's Chinese operations was A\$5,751,818 for the December 2021 quarter (December quarter 2020: A\$5,530,403) and A\$10,391,016 for the 6 months of the current financial year to 31 December 2021( 6 months to 31 December 2020: A\$9,299,004).

Astron remains in active discussions with a number of different suppliers for the sourcing of feedstock for the mineral separation plant it owns and operates in Shenyang, China and from which the foregoing product revenue is derived, to replace the feedstock source which was previously obtained from the company's United States operation in Savannah, Georgia which has ceased production.

## **ASX ADDITIONAL INFORMATION**

ASX listing rule 5.3.5 – Payment to related parties of the entity and their associates

Appendix 5B, Section 6.1 - Description of payments:

Total Directors remuneration for the quarter	\$153,000 (includes superannuation)
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This announcement is authorised by the Managing Director of Astron Corporation Limited.

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### **About Astron**

Astron Corporation Limited (ASX: ATR) is an ASX listed company, with over 35 years of experience in mineral sands processing technology and downstream product development, as well as the marketing and sales of zircon and titanium dioxide products. Astron's prime focus is on the development of its large, long-life and attractive zircon assemblage Donald Mineral Sands and Rare Earth Project in regional Victoria. Donald has the ability to represent a new major source

of global supply in mineral sands. The company conducts a mineral sands trading operation based in Shenyang, China; operates a zircon and titanium chemicals and metals research and development facility in Yingkou, China; and is the owner of the Niafarang Mineral Sands Project in Senegal.

#### **COMPETENT PERSONS STATEMENT**

The information in this report that relates to Exploration Results and Mineral Resources for the Donald Mineral Sands and Rare Earth Project is based on information first reported in previous ASX announcements by the Company, as listed in this announcement. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the original announcements continuing to apply and have not materially changed. The information in this document that relates to the estimation of the Mineral Resources is based on information compiled by Mr Rod Webster, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy and Australian Institute of Geoscientists. Mr Webster is a full-time employee of AMC Consultants Pty Ltd and is independent of Astron. Mr Webster 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'. The Company confirms that the form and context in which the Competent Persons' findings are presented have not prematurely modified from the relevant original market announcement.

The information in this document that relates to the estimation of the Ore Reserves is based on information compiled by Mr Pier Federici, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Federici is a full-time employee of AMC Consultants Pty Ltd and is independent of Astron. Mr Federici 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'. The Company confirms that the form and context in which the Competent Persons' findings are presented have not prematurely modified from the relevant original market announcement.

#### **CAUTIONARY STATEMENT**

Certain sections of this document contain forward looking statements that are subject to risk factors associated with, among others, the economic and business circumstances occurring from time to time in the countries and sectors in which the Astron group operates. It is believed that the expectations reflected in these statements are reasonable, but they may be affected by a wide range of variables which could cause results to differ materially from those currently projected.

The information contained in this document is not investment or financial product advice and is not intended to be used as the basis for making an investment decision. Please note that, in providing this document, Astron has not considered the objectives, financial position or needs of any particular recipient. Astron strongly suggests that investors consult a financial advisor prior to making an investment decision.

This document may include “forward looking statements” within the meaning of securities laws of applicable jurisdictions. Forward looking statements can generally be identified by the use of the words “anticipate”, “believe”, “expect”, “project”, “forecast”, “estimate”, “likely”, “intend”, “should”, “could”, “may”, “target”, “plan”, “guidance” and other similar expressions. Indications of, and guidance on, future earning or dividends and financial position and performance are also forward-looking statements. Such forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties and other factors, many of which are beyond the control of Astron and its related bodies corporate, together with their respective directors, officers, employees, agents or advisers, that may cause actual results to differ materially from those expressed or implied in such statement. Actual results, performance or achievements may vary materially from any forward looking statements and the assumptions on which those statements are based. Readers are cautioned not to place undue reliance on forward looking statements and Astron assumes no obligation to update such information. Specific regard should be given to the risk factors outlined in this document (amongst other things).

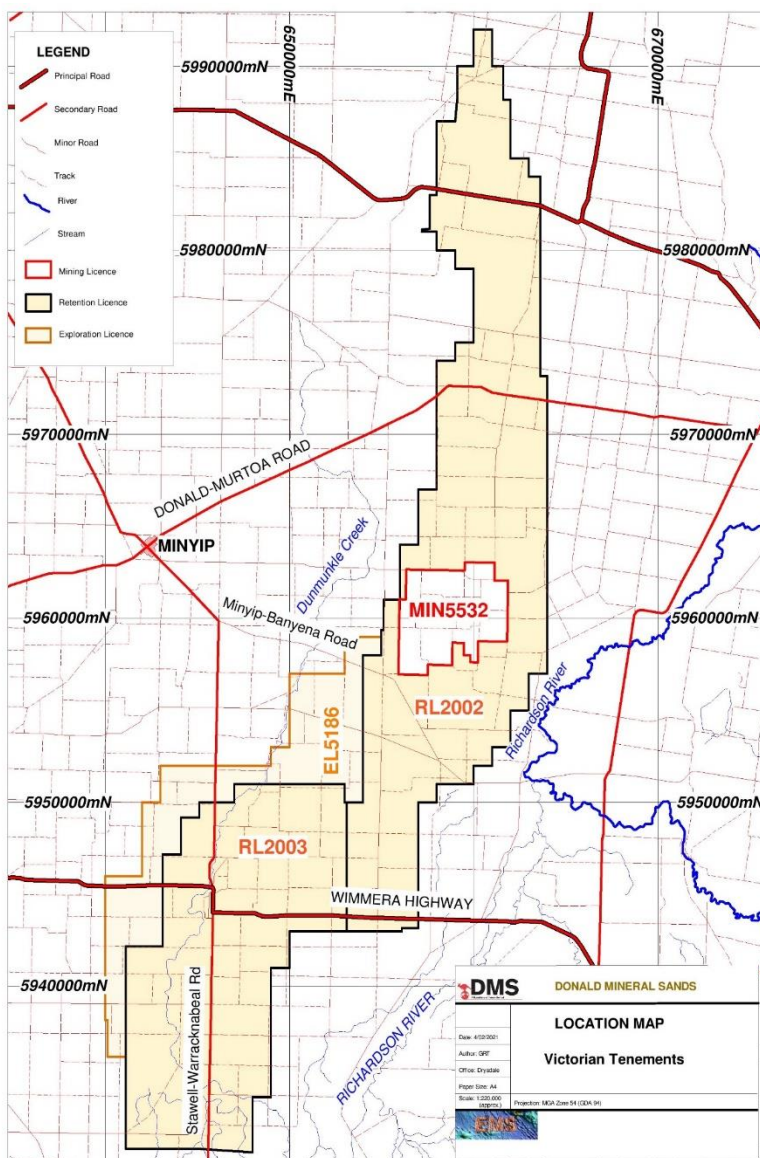
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Certain financial data included in this document is not recognised under the Australian Accounting Standards and is classified as 'non-IFRS financial information' under ASIC Regulatory Guide 230 'Disclosing non-IFRS financial information' (RG 230). This non-IFRS financial information provides information to users in measuring financial performance and condition. The non-IFRS financial information does not have standardised meanings under the Australian Accounting Standards and therefore may not be comparable to similarly titled measures presented by other entities, nor should they be interpreted as an alternative to other financial measures determined in accordance with the Australian Accounting Standards. No reliance should therefore be placed on any financial information, including non-IFRS financial information and ratios, included in this document. All financial amounts contained in this document are expressed in Australian dollars and may be rounded unless otherwise stated. Any discrepancies between totals and sums of components in tables contained in this document may be due to rounding.

### Schedule 1: Donald Mineral Sands and Rare Earth Project Interests in Tenements

Location	Tenement	Percentage held	Holder
Victoria Australia	RL 2002	100	Donald Mineral Sands Pty Ltd
Victoria Australia	RL 2003	100	Donald Mineral Sands Pty Ltd
Victoria Australia	MIN5532	100	Donald Mineral Sands Pty Ltd
Victoria Australia	EL5186	100	Donald Mineral Sands Pty Ltd

Figure 3: Tenements map



## Schedule 2

### APPENDIX A: DONALD DEPOSIT UPDATED ORE RESERVE & MINERAL RESOURCE STATEMENTS

#### Ore Reserves <sup>1</sup>

Based on the supporting mine planning completed, pit inventories to support an Ore Reserve Estimate, in accordance with JORC 2012 are shown in Table 1.1. Ore has been classified as Proven Ore Reserve, based on Measured Mineral Resource and Probable Ore Reserve, based on Indicated Mineral Resource. The results of the Ore Reserve estimate reflect the Competent Person's view of the deposit.

Note that the Mineral Resources are reported inclusive of the Ore Reserve.

**Table 1.1 Donald Mineral Sands Ore Reserve for RL 2002 at February 2021**

Classification	Tonnes (mt)	Slimes (%)	Oversize (%)	HM (%)	Ilmenite (%HM)	Leucoxene (%HM)	Rutile (%HM)	Zircon (%HM)	Monazite (%HM)
<b>Within MIN5532</b>									
Proved	170	14	12	5.3	31	22	7.1	19	1.9
Probable	24	13	12	4.9	33	21	6.7	20	2.0
<b>Total</b>	<b>194</b>	<b>14</b>	<b>12</b>	<b>5.3</b>	<b>32</b>	<b>22.0</b>	<b>7.0</b>	<b>19.0</b>	<b>1.9</b>
<b>Within RL2002 Outside of MIN5532</b>									
Proved	140	19	7	5.6	31	18	9.6	21	1.8
Probable	268	16	14	4.0	32	19	7.5	17	1.6
<b>Total</b>	<b>408</b>	<b>17</b>	<b>12</b>	<b>4.5</b>	<b>32</b>	<b>19.0</b>	<b>8.4</b>	<b>19</b>	<b>1.8</b>
<b>Total within Donald Deposit (RL2002)</b>									
Proved	310	16	108	5.4	31	20	8.2	20	1.8
Probable	292	16	14	4.1	32	20	7.4	17	1.6
<b>Total</b>	<b>602</b>	<b>16</b>	<b>12</b>	<b>4.8</b>	<b>32</b>	<b>20</b>	<b>7.9</b>	<b>19</b>	<b>1.7</b>

#### Note

1. The ore tonnes have been rounded to the nearest 1mt and grades have been rounded to two significant figure.
2. The Ore Reserve is based on indicated and Measured Mineral Resource contained with mine designs above an economic cut-off. The economic cut-off is defined as the value of the products less the cost of processing
3. Mining recovery and dilution have been applied to the figures above.

The JORC Code 2012 Table 1, Section 4 to support the Ore Reserve Estimate is included in Appendix B of the Donald Project Ore Reserve Statement released 18 February 2021. The Ore Reserve estimates have been compiled in accordance with the guidelines defined in the 2012 JORC Code.

#### Mineral Resources<sup>2</sup>

Astron Corporation last reported the Mineral Resource on 7<sup>th</sup> April 2016 in accordance with JORC 2012. Below is an exact of the AMC report (AMC 115075) prepared to support the Mineral Resource. The Mineral

<sup>1</sup> Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves, 2012 Edition, sets out minimum standards, recommendations and guidelines for public reporting in Australasia of Exploration Results, Mineral Resources and Ore Reserves authored by the Joint Ore Reserves Committee of The Australian Institute of Mining and Metallurgy, Australian Institute of Geoscientists and Minerals Council of Australia. The Ore Reserve and Mineral Resource estimates were prepared by AMC Consultants Pty Ltd. For further details see Astron's ASX announcement 18 February 2021, "Donald Project Ore Reserve Update".

<sup>2</sup> Refer ASX Release 7 April 2016

Resource estimate was reported in accordance with the JORC Code for the heavy minerals (HM) and valuable heavy minerals (VHM) Content for MIN5532 and RL 2002 of the Donald Heavy Mineral Sands Deposit and for RL2003, RLA2006 (since been amalgamated into RL2003) of the Jackson Heavy Mineral Sands Deposit.

The Mineral Resource estimate was reported in accordance with the JORC Code for the heavy minerals (HM) and valuable heavy minerals (VHM) content has been used for the preparation of the Ore Reserve. Only the resource containing valuable heavy minerals (VHM) content has been used for the preparation of the Ore Reserve.

**Table 1.2 Mineral Resource at a 1% Cut-off**

<b>Classification</b>	<b>Tonnes (mt)</b>	<b>HM (%)</b>	<b>Slimes (%)</b>	<b>Oversize (%)</b>
<b>Within ML5532</b>				
Measured	372	4.5	14.4	12.8
Indicated	75	4.0	13.8	13.1
Inferred	7	3.5	13.5	10.6
<b>Subtotal</b>	<b>454</b>	<b>4.4</b>	<b>14.2</b>	<b>12.8</b>
<b>With RL2002 Outside of ML5532</b>				
Measured	343	3.9	19.8	8.1
Indicated	833	3.3	16.2	13.5
Inferred	1,595	3.3	15.7	6.0
<b>Subtotal</b>	<b>2,771</b>	<b>3.4</b>	<b>16.4</b>	<b>8.5</b>
<b>Total within Donald Deposit (RL2002)</b>				
Measured	715	4.2	17.0	10.6
Indicated	907	3.4	16.0	13.4
Inferred	1,603	3.4	15.7	6.0
<b>Subtotal</b>	<b>3,225</b>	<b>3.6</b>	<b>16.1</b>	<b>9.1</b>
<b>Total within Jackson Deposit (RL2003)</b>				
Measured	0	0.0	0.0	0.0
Indicated	1,903	2.8	19.0	5.8
Inferred	584	2.9	16.7	3.3
<b>Subtotal</b>	<b>2,497</b>	<b>2.9</b>	<b>18.5</b>	<b>5.2</b>
<b>Total Donald Project</b>				
Measured	715	4.3	18.1	11.1
Indicated	2,811	3.0	17.9	8.2
Inferred	2,187	3.3	16.4	5.5
<b>Total</b>	<b>5,712</b>	<b>3.2</b>	<b>16.9</b>	<b>7.3</b>

**Note**

1. The total tonnes may not equal the sum of the individual resources due to rounding.
2. The cut-off grade is 1% HM.
3. The figures are rounded to the nearest: 10M for tonnes, one decimal for HM, Slimes and Oversize.
4. For further details including JORC Code, 2012 Edition – Table 1 and cross sectional data, see previous announcements dated 7 April 2016, available at ASX's website at:  
[www.asx.com.au/asxpdf/20160407/pdf/436cjqcg3cf47.pdf](http://www.asx.com.au/asxpdf/20160407/pdf/436cjqcg3cf47.pdf)

**Table 1.3 Mineral Resource where VHM Data is Available at a Cut-off of 1% HM**

<b>Classification</b>	<b>Tonnes (mt)</b>	<b>Slimes (%)</b>	<b>Oversize (%)</b>	<b>HM (%)</b>	<b>Ilmenite (%HM)</b>	<b>Leucoxene (%HM)</b>	<b>Rutile (%HM)</b>	<b>Zircon (%HM)</b>	<b>Monazite (%HM)</b>
<b>Within ML5532</b>									
Measured	264	14.2	12.2	5.4	31	22	7	19	2
Indicated	49	13.6	12.1	4.9	33	22	7	20	2
Inferred	5	13.5	10.2	4.2	36	20	7	22	3
<b>Total</b>	<b>317</b>	<b>14.1</b>	<b>12.1</b>	<b>5.3</b>	<b>32</b>	<b>22</b>	<b>7</b>	<b>19</b>	<b>2</b>
<b>Within RL2002 Outside of ML5532</b>									
Measured	185	19.1	7.3	5.5	31	19	9	21	2
Indicated	454	15.9	13.2	4.2	33	19	7	17	2
Inferred	647	15.2	5.8	4.9	33	17	9	18	2
<b>Total</b>	<b>1,286</b>	<b>16.0</b>	<b>8.6</b>	<b>4.8</b>	<b>33</b>	<b>18</b>	<b>8</b>	<b>18</b>	<b>2</b>
<b>Total within Donald Deposit (RL2002)</b>									
Measured	448	16.2	10.2	5.4	31	21	8	20	2
Indicated	503	15.7	13.1	4.3	33	20	7	18	2
Inferred	652	15.2	5.8	4.9	33	17	8	18	2
<b>Total</b>	<b>1,604</b>	<b>15.6</b>	<b>9.3</b>	<b>4.9</b>	<b>32</b>	<b>19</b>	<b>8</b>	<b>18</b>	<b>2</b>
<b>Total within Jackson Deposit (RL2003)</b>									
Measured									
Indicated	668	18.1	5.4	4.9	32	17	9	18	2
Inferred	155	15.1	3.1	4.0	32	15	9	21	2
<b>Total</b>	<b>823</b>	<b>17.6</b>	<b>5.0</b>	<b>4.8</b>	<b>32</b>	<b>17</b>	<b>9</b>	<b>19</b>	<b>2</b>
<b>Total Donald Project</b>									
Measured	448	16.2	10.2	5.4	31	21	8	20	2
Indicated	1,171	17.1	8.7	4.6	32	18	8	18	2
Inferred	807	15.2	5.3	4.7	33	17	9	19	2
<b>Total</b>	<b>2,427</b>	<b>16.3</b>	<b>7.0</b>	<b>4.8</b>	<b>32</b>	<b>18</b>	<b>8</b>	<b>19</b>	<b>2</b>

**Note**

1. The total tonnes may not equal the sum of the individual resources due to rounding.
2. The cut-off grade is 1% HM.
3. The figures are rounded to the nearest: 1mt for tonnes, one decimal for HM, Slimes and Oversize and whole numbers for zircon, ilmenite, rutile + anatase, leucoxene and monazite.
4. Zircon, ilmenite, rutile + anatase, leucoxene and monazite percentages are report as a percentage of the HM.
5. Rutile + anatase, leucoxene and monazite resource has been estimated using fewer samples than the other valuable heavy minerals. The accuracy and confidence in their estimate is therefore lower.
6. For further details including JORC Code, 2012 Edition – Table 1 and cross sectional data, see previous announcements dated 7 April 2016, available at ASX's website at [www.asx.com.au/asxpdf/20160407/pdf/436cjqc3cf47.pdf](http://www.asx.com.au/asxpdf/20160407/pdf/436cjqc3cf47.pdf)

## Appendix 5B

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

Name of entity

**Astron Corporation Limited**

Incorporated in Hong Kong, company number 1687414

ARBN

Quarter ended ("current quarter")

154 924 553

31 December 2021

<b>Consolidated statement of cash flows</b>		<b>Current quarter \$A'000</b>	<b>Year to date (6 months) \$A'000</b>
<b>1.</b>	<b>Cash flows from operating activities</b>		
1.1	Receipts from customers	1,647	7,218
1.2	Payments for		
	(a) exploration & evaluation	-	-
	(b) development	-	-
	(c) production	(385)	(7,306)
	(d) staff costs	-	-
	(e) administration and corporate costs	(463)	(1,626)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	-	3
1.5	Interest and other costs of finance paid	(73)	(250)
1.6	Income taxes received	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (provide details if material)	-	-
<b>1.9</b>	<b>Net cash from / (used in) operating activities</b>	<b>726</b>	<b>(1,961)</b>
<b>2.</b>	<b>Cash flows from investing activities</b>		
2.1	Payments to acquire or for:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	(52)	(133)
	(d) exploration & evaluation	(838)	(1,918)
	(e) investments	-	-
	(f) other non-current assets	-	-



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

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	137
	(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 (provide details if material)	-	-
<b>2.6</b>	<b>Net cash from / (used in) investing activities</b>	<b>(890)</b>	<b>(1,914)</b>
<b>3.</b>	<b>Cash flows from financing activities</b>		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
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	-	-
3.5	Proceeds from borrowings	2,103	4,199
3.6	Partial settlement of offtake agreement	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
<b>3.10</b>	<b>Net cash from / (used in) financing activities</b>	<b>2,103</b>	<b>4,199</b>
<b>4.</b>	<b>Net increase / (decrease) in cash and cash equivalents for the period</b>		
4.1	Cash and cash equivalents at beginning of period	647	2,570
4.2	Net cash from / (used in) operating activities (item 1.9 above)	726	(1,961)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(890)	(1,914)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	2,103	4,199

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

<b>Consolidated statement of cash flows</b>		<b>Current quarter \$A'000</b>	<b>Year to date (6 months) \$A'000</b>
4.5	Effect of movement in exchange rates on cash held	102	(206)
<b>4.6</b>	<b>Cash and cash equivalents at end of period</b>	<b>2,688</b>	<b>2,688</b>

<b>5.</b>	<b>Reconciliation of cash and cash equivalents</b> at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	<b>Current quarter \$A'000</b>	<b>Previous quarter \$A'000</b>
5.1	Bank balances	2,688	647
5.2	Call deposits	-	-
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
<b>5.5</b>	<b>Cash and cash equivalents at end of quarter (should equal item 4.6 above)</b>	<b>2,688</b>	<b>647</b>

<b>6.</b>	<b>Payments to related parties of the entity and their associates</b>	<b>Current quarter \$A'000</b>
6.1	Aggregate amount of payments to related parties and their associates included in item 1	153
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.*

The amounts reported in item 6.1 relate to payments made to Directors, including executive and non-executive fees for the quarter.

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

<b>7. Financing facilities</b>	<b>Total facility amount at quarter end \$A'000</b>	<b>Amount drawn at quarter end \$A'000</b>
<i>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.</i>		
7.1 Loan facilities	6,064	6,064
7.2 Credit standby arrangements	-	-
7.3 Other (please specify)	13,762	13,762
<b>7.4 Total financing facilities</b>	<b>19,826</b>	<b>19,826</b>
<b>7.5 Unused financing facilities available at quarter end</b>		-
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.		
Other primarily relate to loans provided by related parties to the Group		

<b>8. Estimated cash available for future operating activities</b>	<b>\$A'000</b>
8.1 Net cash from / (used in) operating activities (item 1.9)	726
8.2 (Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(838)
8.3 Total relevant outgoings (item 8.1 + item 8.2)	(112)
8.4 Cash and cash equivalents at quarter end (item 4.6)	2,688
8.5 Unused finance facilities available at quarter end (item 7.5)	-
8.6 Total available funding (item 8.4 + item 8.5)	2,688
<b>8.7 Estimated quarters of funding available (item 8.6 divided by item 8.3)</b>	<b>24</b>
<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>	
8.8 If item 8.7 is less than 2 quarters, please provide answers to the following questions:	
8.8.1 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?	
Answer: N/a	
8.8.2 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?	
Answer: N/a	
8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?	
Answer: N/a	
<i>Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.</i>	

## 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: 31 January 2022

Authorised by: Tiger Brown, Managing Director  
(Name of body or officer authorising release – see note 4)

## Notes

1. 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.
2. 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".
5. 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.