

ASX ANNOUNCEMENT

11 July 2022

HIGHLY PROSPECTIVE LITHIUM LICENSES ACQUIRED IN TANZANIA

Cassius Mining Limited (“**Cassius**” or “the **Company**”) (**ASX Code: CMD**), is pleased to advise it has acquired four contiguous Prospecting Licenses (**PL’s**) in central Tanzania (prospective for Lithium).

HIGHLIGHTS

- ✓ The area covered by the 4 PL’s totals approximately 300 sq.km
- ✓ All 4 PL’s (11720/2021, 11721/2021, 11920/2022 and 11921/2021) are valid for an initial term of 4 years, renewable
- ✓ Historical Lithium pegmatite occurrences are known immediately adjacent to and within the Cassius licenses
- ✓ A previous Lithium and Tantalum discovery (rock chip sampling from a mapped pegmatite zone) is present ~700m from the Cassius license border (Mohanga Project, Lontown Resources, ASX: LTR) during 2015-17¹

Cassius CEO James Arkoudis comments:

“We have assessed many potential projects over the last two years to add shareholder value. With a renewed worldwide interest in Lithium due to its key status in the surging green industries of batteries and electrification in all walks of life, we have carefully considered and acquired these four tenements in a known Lithium region with exciting geological characteristics and documented Lithium presence. Our ongoing significant African experience will hold us in good stead as we strive to make this project successful for the benefit of our shareholders. We look forward to updating shareholders as we make progress on our exploration activities.”

PROJECT LOCATION

The four contiguous PL’s are located in central Tanzania, approximately 40 kms north of the capital city of Dodoma (replacing the larger city of Dar Es Salaam as Tanzania’s capital in 1974 due to its central location and easy accessibility to/from the whole of the country). The licenses are easily accessible on the A104 Great North Rd heading north from Dodoma, being adjacent to that major road on the western and eastern sides.

¹ Lontown Resources – Mohanga Project, ASX Quarterly report ending 31 Dec 2015, and ASX 5 April 2017

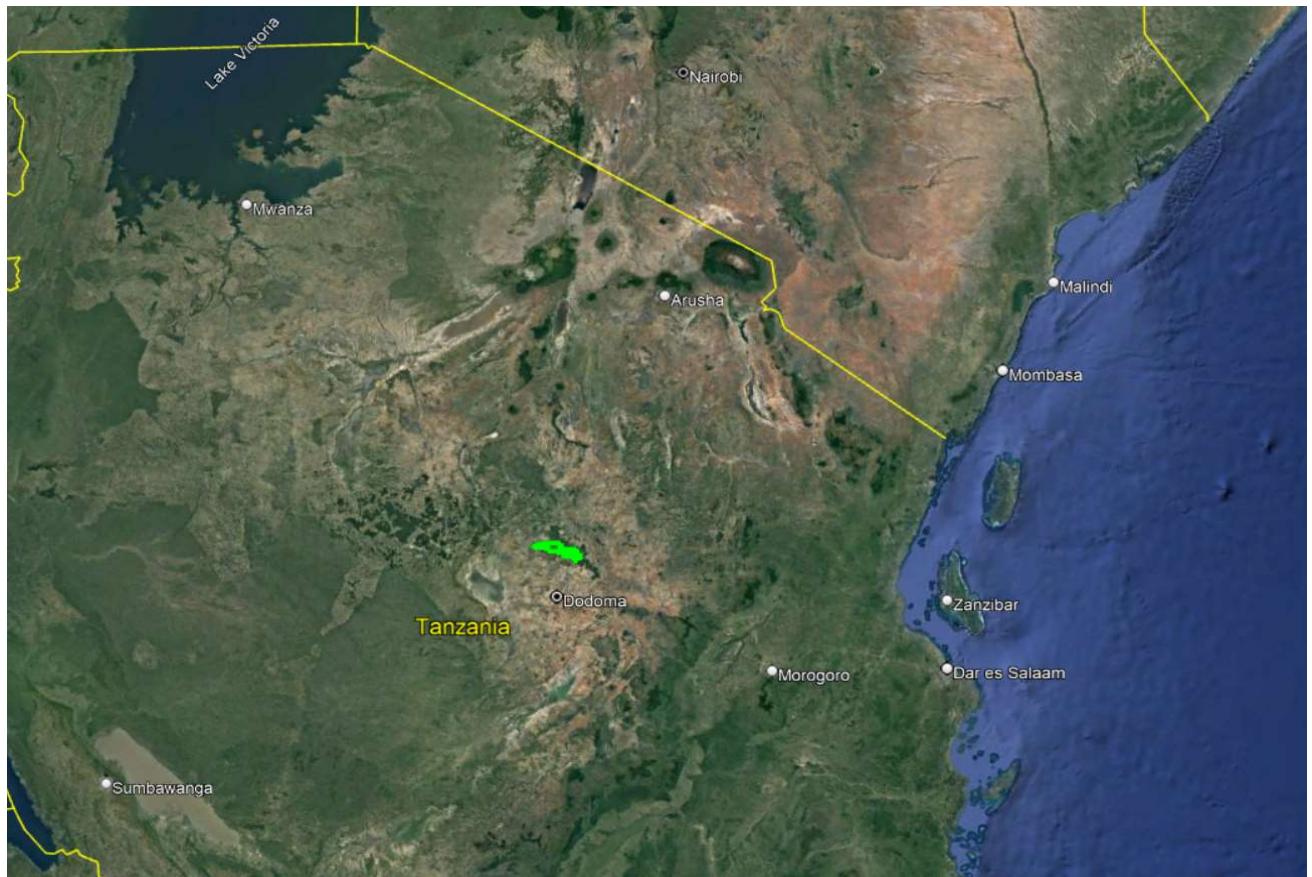


Fig 1 – Licenses location within Tanzania (shown in green outline)

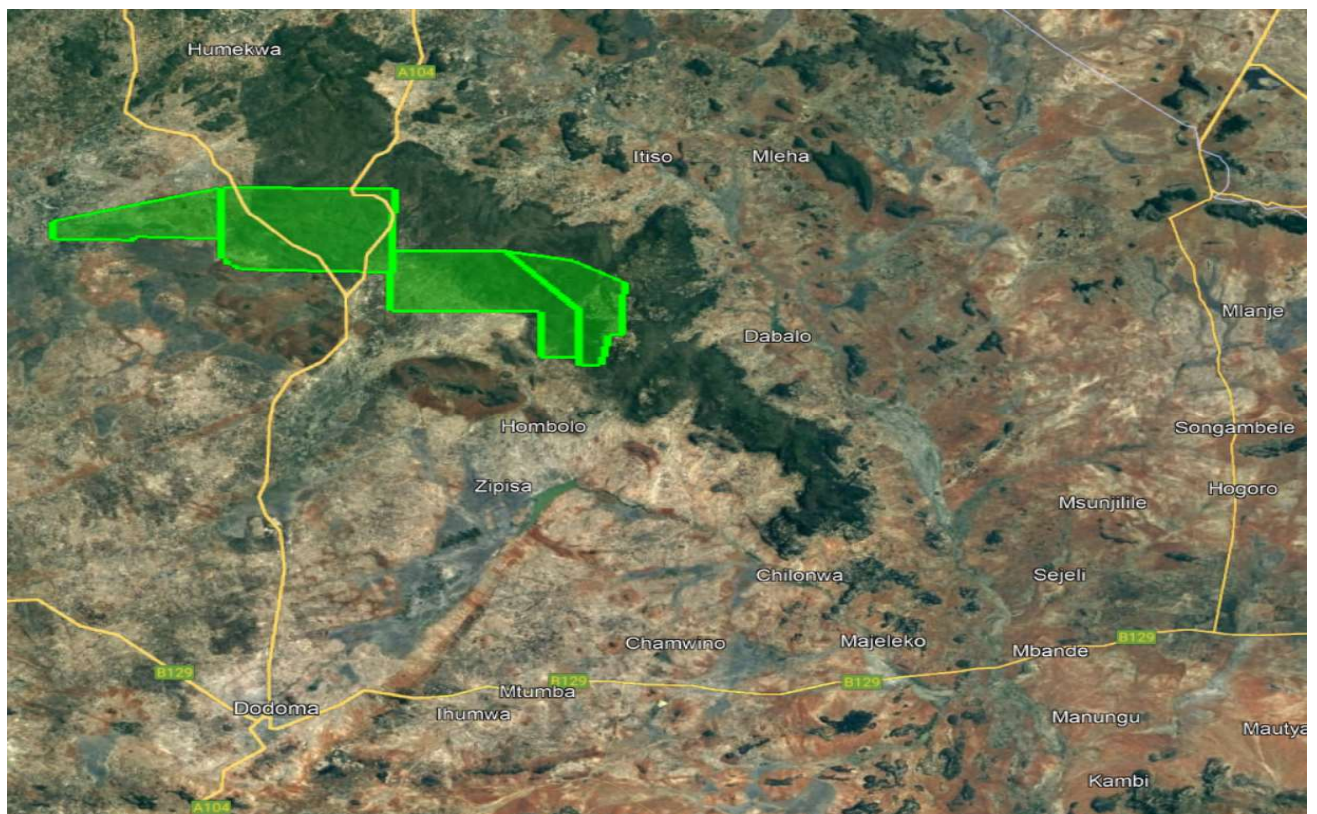


Fig 2 – Licenses location within Dodoma Region (shown in green outline) with major roads in yellow

GEOLOGICAL ENVIRONMENT & INITIAL EXPLORATION TARGET

The main topographic features of the area are the NW-trending Chenene Mountains (1,400-1,700m elevation AMSL, formed of synorogenic and sheared granite) and the lower gently rolling plains (1,000-1,200m elevation AMSL, formed primarily of eroded granitic soils).

A group of metamorphosed igneous and sedimentary rocks outcrop in places along the margins of the granites. In this initial area of interest to the Company, a belt of metamorphosed amphibolite gneisses and amphibolite schists are seen to outcrop in places above the granitic soil plains². They are believed to be remnants of older rocks within the granites and conform generally with the foliations and shearing of the surrounding granite in a NW direction.

Lithium and Tantalum bearing pegmatites³ have previously been identified cutting this belt, as generally shown in Fig 3. The Company is planning to target its initial exploration in two locations in the metamorphosed amphibolite gneiss outcrops (as outlined in red in Fig 3).

It also remains open to the Company to explore for further subsurface equivalent metamorphosed rocks along the margins of the adjacent exposed granites, potentially still buried under the eroded granitic soils.

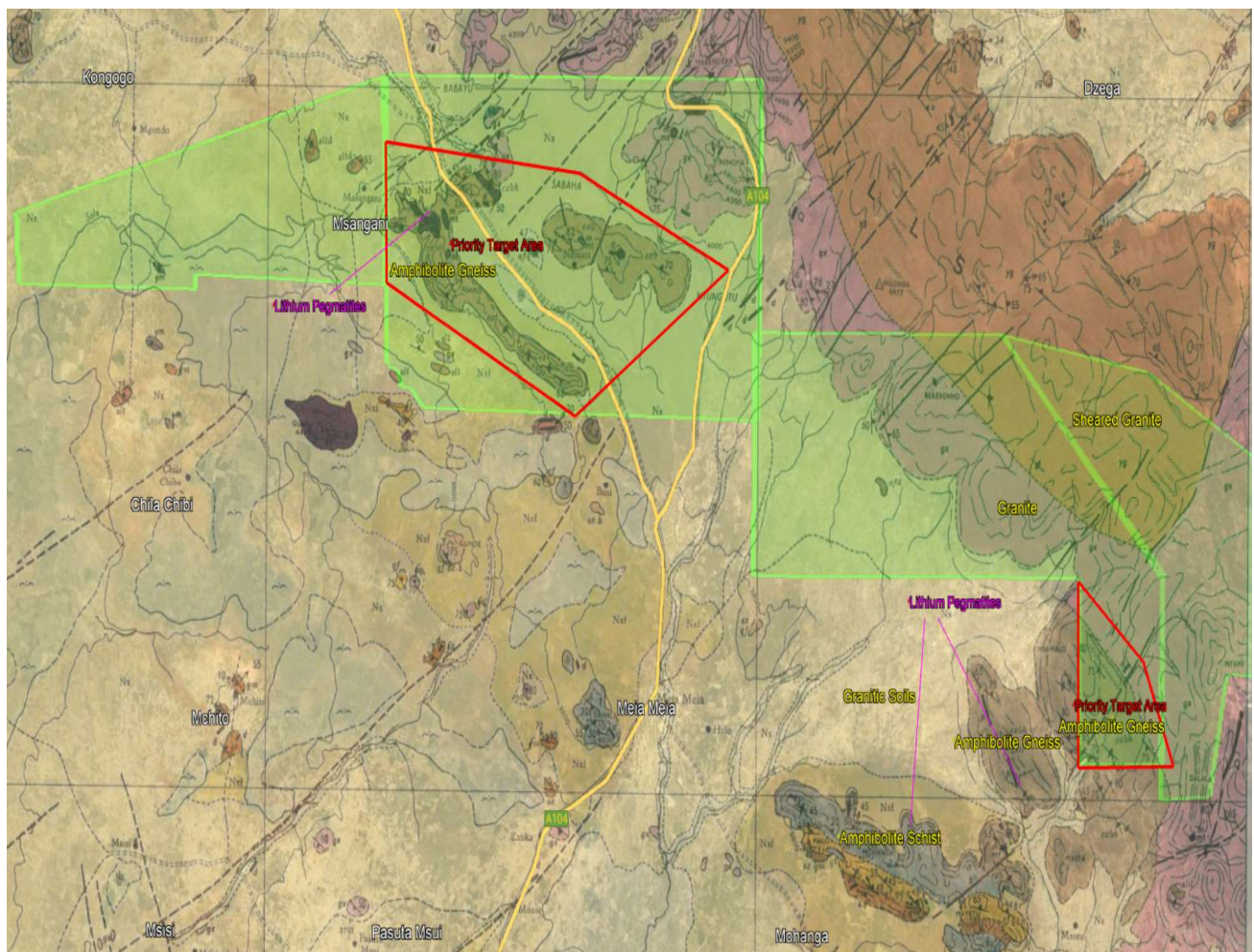


Fig 3 – Initial Target Areas (in red) in and adjacent to known Lithium-bearing Pegmatite Zones

² Tanzania Geological Survey

³ Liontown Resources – Mohanga Project, ASX Quarterly report ending 31 Dec 2015, and ASX 5 April 2017

KEY DETAILS OF THE ACQUISITION OF THE 4 PROSPECTING LICENSES

All PL's have a four (4) year term, starting 4/10/21 for PL's 11720/21 (transferred from seller as the PL's were already in existence, held by the seller) and 13/5/22 for PL's 11920/21 (issued as new licenses direct to Cassius as the seller held the rights to the areas as applications only). All 4 PL's are now held by Cassius.

The combined acquisition cost of PL's 11720 and 11721 (contracted as a pair) are as follows:

- USD \$50,000 cash already paid in the first year
- USD \$75,000 cash to be paid in the second year
- USD \$100,000 cash to be paid in the third year

The combined acquisition cost of PL's 11920 and 11921 (contracted as a pair) are as follows:

- USD \$150,000 cash already paid in the first year

Subsequent potential success costs are as follows, relevant to each pair of licenses:

- In the fourth year of PL's 11720/21, a cash payment of USD1.0m will only be made if there is a JORC Resource (in any category) announced to the ASX of at least 10m tonnes of Ore at a minimum grade of 1.3% lithium oxide (limited to that part of any Resource contained within PL's 11720/21), by the end of the 4th year. For every 10m tonne increase (uncapped, and applying only to each full 10m tonne increase) in the JORC Resource at a minimum grade of 1.3% lithium oxide (limited to that part of any Resource contained within PL's 11720/21), then further cash payments of USD\$1.0m for each 10m tonne increase is payable.
- Similarly the above potential success costs are separately calculated and payable in PL's 11920/21.
- A net smelter royalty of 1% for the life of mine

Cassius can withdraw at any time (at its sole option) from any/all PL's by giving 60 days' notice and transferring the Prospecting Licences back to the seller (a Tanzanian individual, Mr. Lucas Michael Mdemu) for nil consideration, without penalty or future liability.

Renewal of any PL or conversion to a Mining License is subject to local content rules and a code of conduct being met, and prospecting activities/expenditures being acceptable to the Mining Commission on expiry of the initial term.

WORK TO BE UNDERTAKEN IN THE FIRST YEAR

The exploration work to be carried out in the first year is based around a desk top review, early exploration reconnaissance, geological mapping and rock chip sampling.

Cassius will keep shareholders updated via ASX announcements as progress continues.

This has been authorized and approved by the board for release.

FURTHER INFORMATION

James Arkoudis, Director

e: james@cassiusmining.com

Wayne Kernaghan, Director/Co. Secretary

t: +61 407 233153, e: wayne@cassiusmining.com

Disclaimer

This ASX announcement has been prepared by Cassius. It should not be considered as an offer to subscribe for or purchase any securities in the company or as an inducement to make an offer or invitation with respect to those securities. No agreement to subscribe for securities in the company will be entered into on the basis of this announcement.

This announcement contains summary information about Cassius, its subsidiaries and their activities which is current as at the date of the announcement. The information in this announcement is of a general nature and does not purport to be complete nor does it contain all the information which a prospective investor may require in evaluating a possible investment in Cassius.

By its very nature exploration for minerals is a high-risk business and is not suitable for certain investors. Cassius securities are speculative. Potential investors should consult their stockbroker or financial advisor. There are a number of risks, both specific to Cassius and of a general nature which may affect the future operating and financial performance of Cassius and the value of an investment in Cassius including but not limited to economic conditions, stock market fluctuations, gold price movements, regional infrastructure, constraints, timing of approvals from relevant authorities, regulatory risks, operational risks and reliance on key personnel and foreign currency fluctuations.

Certain statements contained within this announcement, including information as to the future financial or operating performance of Cassius, are forward looking statements that:

- May include, among other things, statement regarding targets, estimates and assumptions in respect of mineral reserves and mineral resources, and anticipated grades and recovery rates, production, prices, recovery costs, results capital expenditure, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions;
- Are necessarily based upon a number of estimates and assumptions that, while considered reasonable by Cassius, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies; and,
- Involve unknown and known risk and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward looking statements.

Cassius disclaims any intent or obligation to update publicly any forward-looking statements, whether as a result of new information, future events or results or otherwise. The words “believe”, “expect”, “anticipate”, “indicate”, “contemplate”, “target”, “plan”, “intends”, “continue”, “budget”, “estimate”, “may”, “will”, “schedule”, and similar expressions identify forward looking statements.

All forward looking statements made in this announcement are qualified by the foregoing cautionary statements. Investors are cautioned that forward looking statements are not guarantees of future performance and accordingly investors are cautioned not to put undue reliance on forward looking statements due to inherent uncertainty therein.

No verification: Although all reasonable care has been undertaken to ensure that the facts and opinions given in this Announcement are accurate, the information provided in the Announcement has not been independently verified.

Ghana Office
HNO. 4, 9th Street,
Adjiringanor
Greater Accra, GHANA
P.O Box GP 17867
ACCRA

Madagascar Office
Lot II 99 ABA
Soavimasoandro,
Antananarivo,
MADAGASCAR

Cassius Mining Limited

ACN 115 027 033

www.cassiusmining.com

Sydney Office
Suite 18 Level 4
3 Spring Street
Sydney NSW 2000
AUSTRALIA
PO Box R383
Royal Exchange
NSW 1225