



9 April 2024

## NWT Lithium Projects – Summer Work Programs Update

### Highlights:

- Fast-tracked on-ground exploration planned at Halo-Yuri to determine prospectivity of pegmatite systems.
- Completion of first pass exploration at the MAC Lithium Project will cover new claim areas recently staked by Trinex.
- On-ground archaeology work has been completed at Ross Lake Project, where priority drill targets have been defined based on rock chips up to **3.31% Li<sub>2</sub>O**.

Trinex Minerals Limited (**ASX: TX3**) (**Trinex** or the **Company**) is pleased to provide an update regarding the planned summer 2024 work programs at the Company's 100% owned lithium Projects in the Northwest Territories, Canada (Figure 1).

Over the northern winter months, work on these projects has focused on First Nations Engagement, desktop archaeology studies and exploration planning for the summer field campaigns.

The Halo-Yuri Project (**Halo-Yuri**) will be the priority focus once the ice has completely melted from the main lakes around the project, and Trinex is planning a concentrated block of field work as soon as practical to investigate a series of target pegmatite systems identified.

In the meantime, Trinex' summer fieldwork will focus on the MAC Lithium Project (**MAC**) where the Company has identified a large LCT pegmatite swarm in the south of the project where coarse grained pegmatites contain beryl and have associated decreasing K/Rb ratio trends. This pegmatite trend continues into the newly staked area to the south of the project and is a priority for summer fieldwork.

At the Ross Lake Lithium Project (**Ross Lake**), further archaeology work is required to follow up the completed desktop studies which highlighted some areas requiring on-ground assessment prior to drilling.

### Will Dix, Managing Director of Trinex Minerals, commented:

*"We are delighted to be advancing planning for the summer work programs for our Canadian Lithium Projects in the Northwest Territories. Our team has spent the northern winter months in desktop mode, and we are eager to get on the ground to get into the next phase."*

*"The progress we have made to get Ross Lake ready for drilling is particularly pleasing, and the team will prioritise finalising the on-ground risk assessment to enable this drill program to commence."*

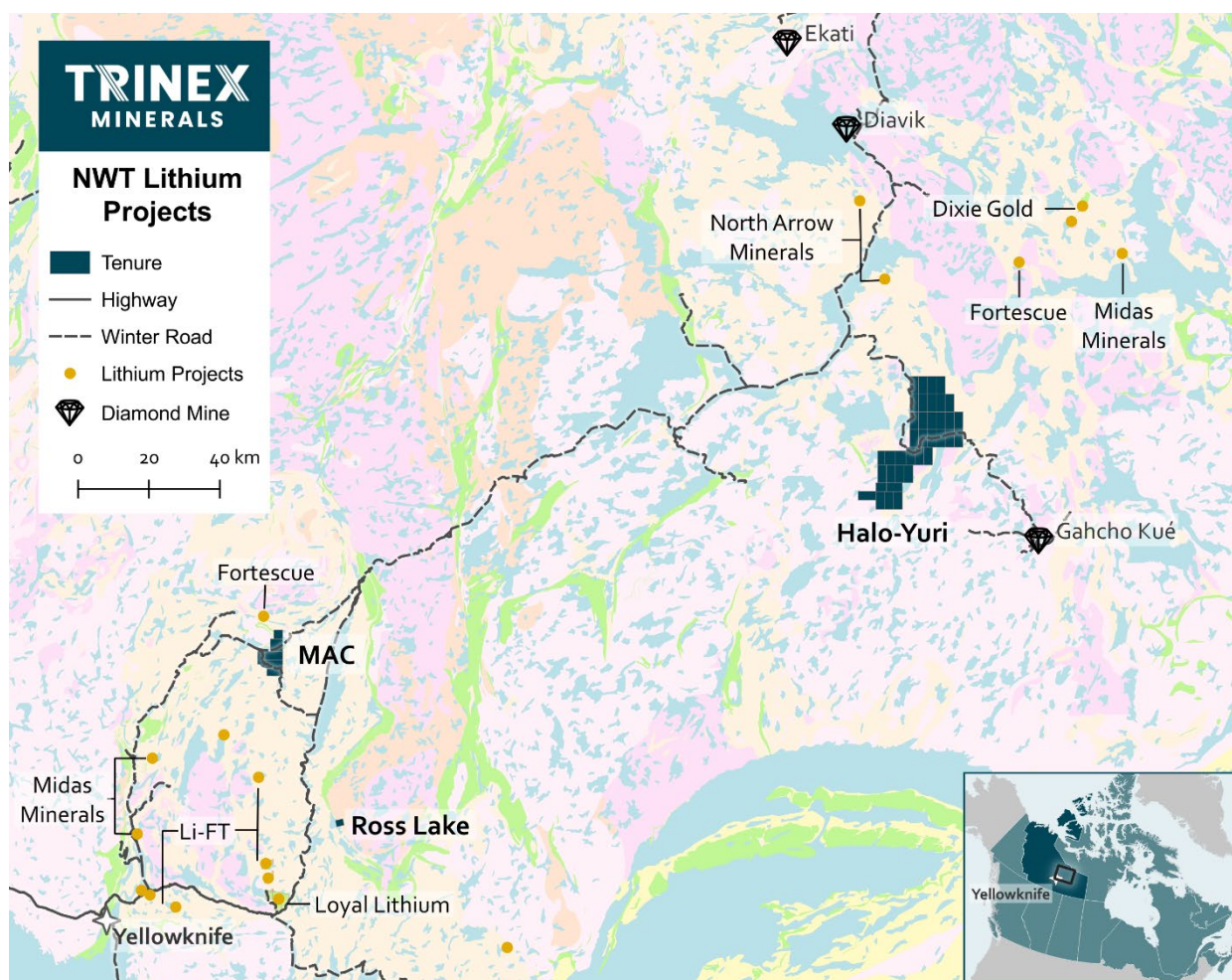
*"We have only just started to build the picture of the potential of these projects, and we are encouraged by everything we have seen in the initial exploration program. We are fully funded for our summer exploration activities, and we look forward to providing updates as we move forward."*

ABN 45 600 308 398

128 Churchill Ave, Subiaco WA 6008 | PO Box 1205 Osborne Park WA 6916

T +61 8 61660255 | E [corporate@trinexminerals.com.au](mailto:corporate@trinexminerals.com.au)

[www.trinexminerals.com.au](http://www.trinexminerals.com.au)



**Figure 1: Canadian Lithium Projects, Northwest Territories, Canada.**

## Halo-Yuri Lithium Project

Newly acquired 50cm resolution satellite imagery for the project has enabled the Company to interpret hundreds of pegmatite targets to follow up in the summer field season. The area in the north (Figure 2) is flat with limited outcrop, mostly obscured by glacial till and moss. It is likely that the extent of many of the pegmatites at surface is significantly more than what is obviously visible in the imagery which requires on-the-ground mapping of outcrop and boulder trains.

In this area, mapping by Tomascak<sup>1</sup> as part of his MSc work at the 'OIG' and 'SWEET' pegmatites was limited to a couple of hours each, indicating that the area is generally under-mapped and hence is a high priority target for the planned field work.

In the southern area (Figure 3) there is significant relief and therefore more outcrop. Mapping by the Northwest Territories Geological Survey (NTGS) identified numerous pegmatites that are clearly visible in the satellite imagery. In this area pegmatites range from 10 to >50m thick and up to 1km long. Additionally, this area was not mapped by Tomascak, who is the only known geologist to map in the region with a lithium-caesium-tantalum (LCT) pegmatite focus.

<sup>1</sup> Tomascak, PB. (1991). *Granites and rare element pegmatites of the Aylmer Lake pegmatite field, Slave structural province, N.W.T.; petrochemistry, mineralogy, and exploration guidelines*. [Master's Thesis, University of Manitoba, Winnipeg, MB, Canada]

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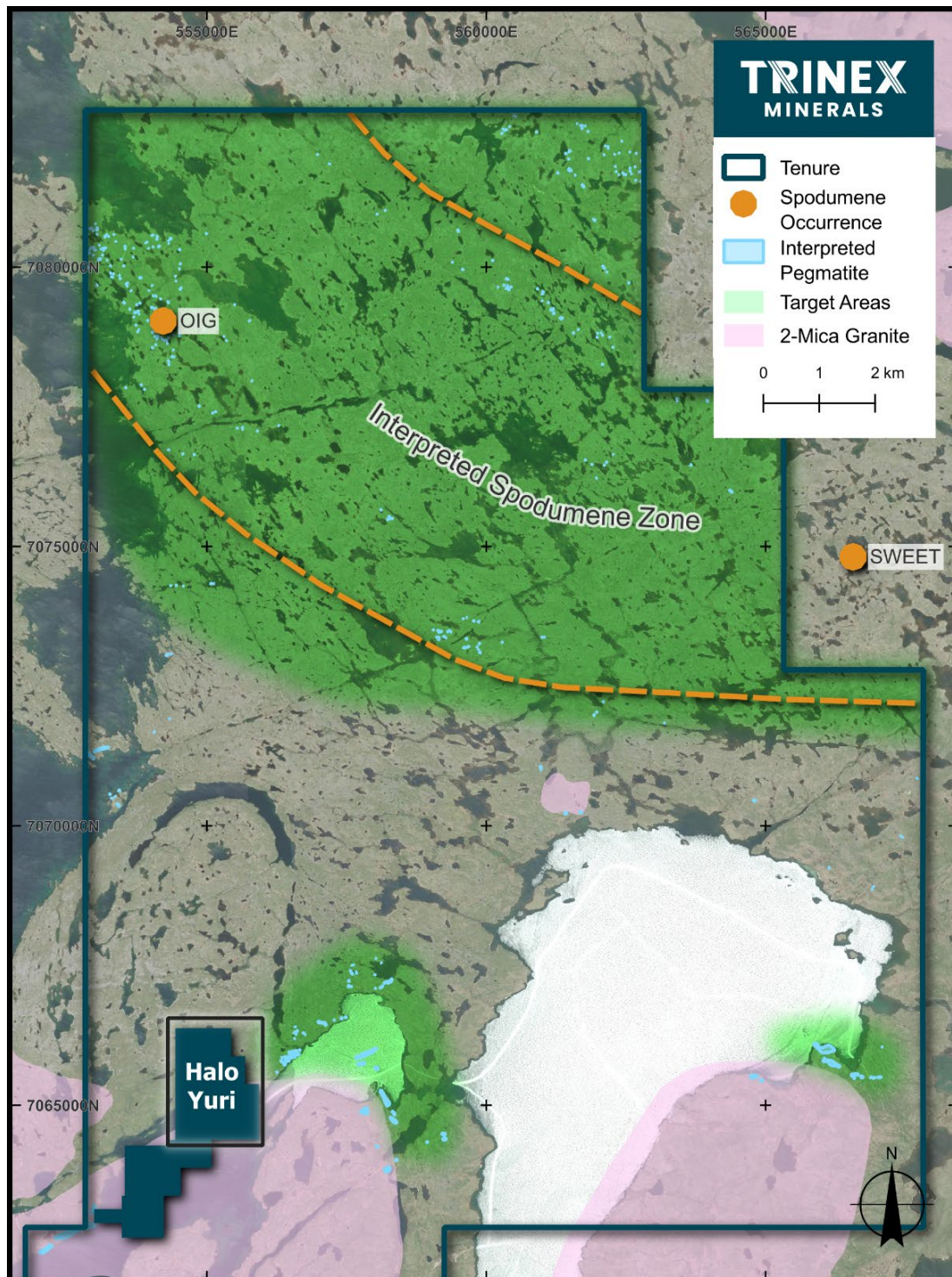
T +61 8 61660255 | E corporate@trinexminerals.com.au

www.trinexminerals.com.au



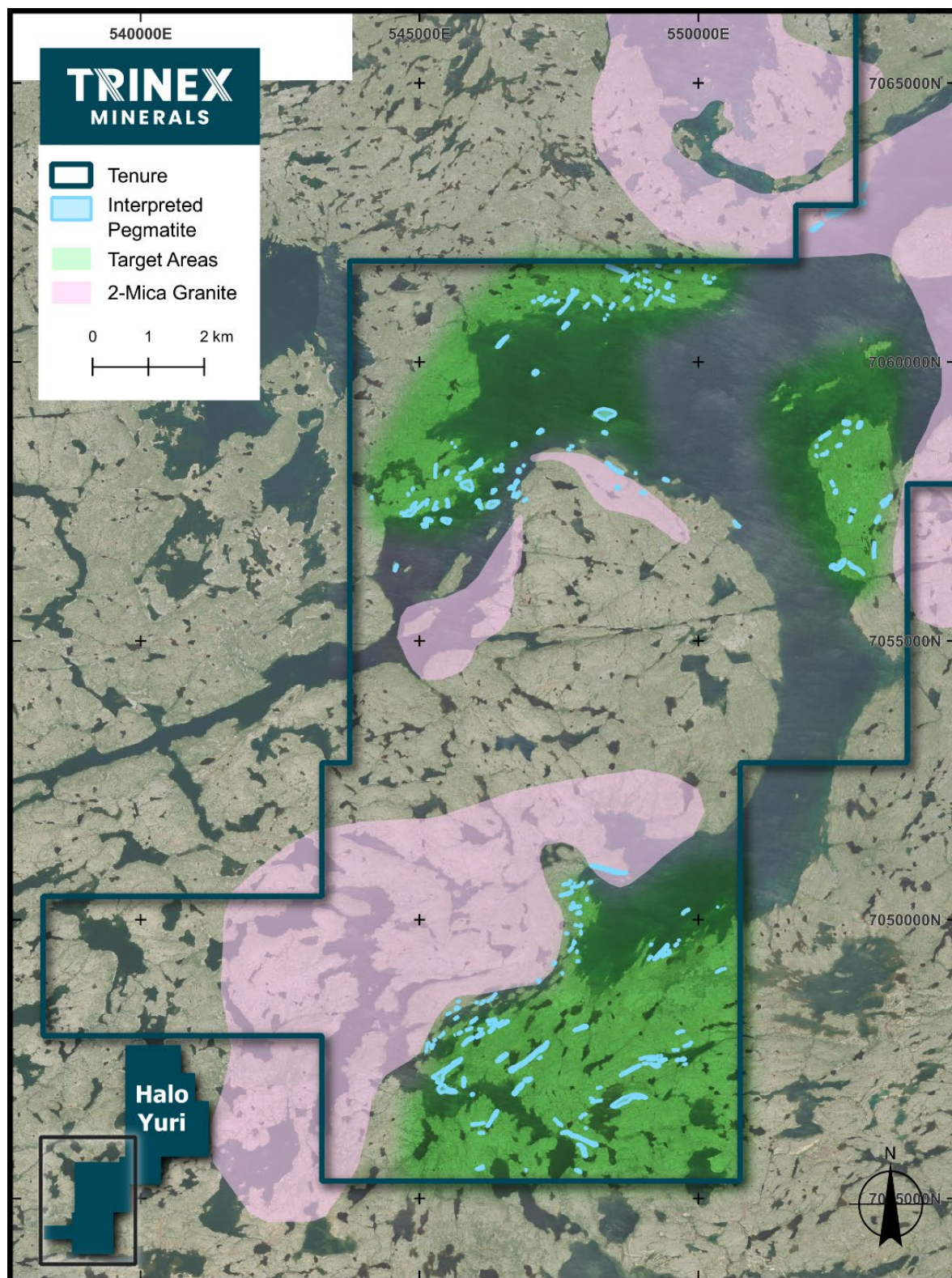


The identified pegmatites are associated with the same suite of 2-mica granites that are proximal to the 'OIG' and 'SWEET' spodumene bearing pegmatites and other spodumene pegmatites regionally throughout the Slave Geological Province.



**Figure 2:** Halo-Yuri Lithium Project (north) with highlighted target areas for the 2024 summer exploration program.





*Figure 3: Halo-Yuri Lithium Project (south) with highlighted target areas for the 2024 summer exploration program.*

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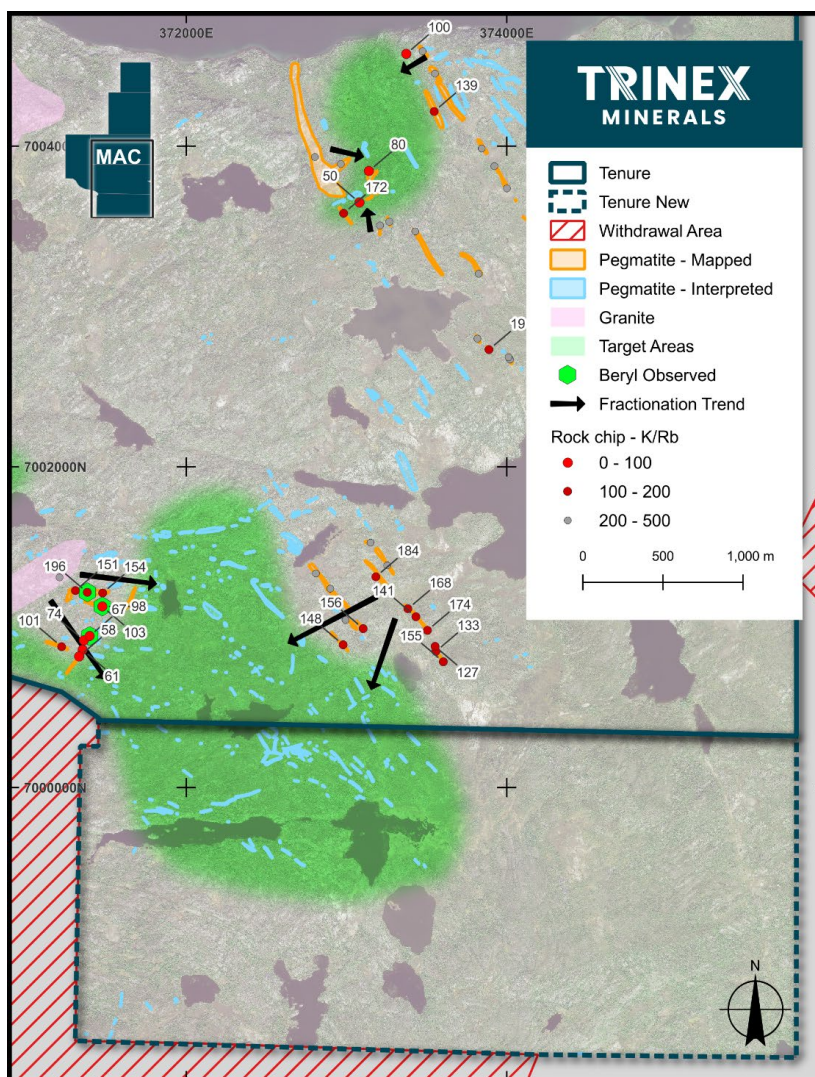


## MAC Lithium Project

At the MAC Project, work completed during the late 2023 summer field campaign confirmed the presence of a large LCT pegmatite swarm in the south of the project where coarse grained pegmatites contain beryl and have associated decreasing K/Rb ratio trends confirming the prospectivity of several areas<sup>2</sup>.

The K/Rb ratio is a valuable exploration tool as it indicates degree of fractionation of the pegmatite, with a decreasing ratio (increasing Rb vs K) showing increasing fractionation. Lithium/spodumene-bearing pegmatites are typically in the most fractionated part of the system. The pegmatites at Ross Lake and southern area of MAC are also relatively enriched in rare elements (Be, Ta, Cs, Sn) further indicating increasing fractionation.

Figure 4 shows this area with the 2024 summer program at MAC to continue to follow this trend into the newly staked claim area.



**Figure 4:** MAC Lithium Project (south) with 2023 sample locations showing K/Rb ratios and target areas including on the recently staked claim for the 2024 summer exploration program.

<sup>2</sup> ASX Announcement 20 February 2024 – Spodumene Confirmed and Ross Lake and MAC Lithium Project Update



## Ross Lake Lithium Project

At Ross Lake, Trinex has defined priority drill targets following high grade results from spodumene-bearing rock chips including **3.31% Li<sub>2</sub>O, 2.27% Li<sub>2</sub>O and 1.84% Li<sub>2</sub>O** from the “Dyke 75” area<sup>3</sup>. Work is continuing to complete the necessary permitting requirement prior to drilling during the Canadian summer field season. More details of these work streams are explained below.

## First Nations and Government Engagement Program

A significant amount of work has been completed on First Nations Engagement so far in 2024. Meetings describing our work programs and plans have been held with all of the First Nations either online or face to face. This constitutes a major component of our ongoing information and consultation programs and has paved the way for a second round of meetings with key stakeholders.

Face to face access to senior government administrators and ministers has also helped to streamline the permitting process for the submission of the Class A Land Use Permit Application which is expected to be lodged within the next week.

## Desktop Archaeology Study

An Archaeological Overview Assessment (AOA) has been completed on each of the three lithium projects. All projects contain areas that have been flagged by the archaeologists as requiring further field-based work to fully assess these areas.

Given the Ross Lake Project is drill ready, Trinex has prioritised this project as the focus for further assessment as early as possible in the summer field season to clear it for diamond drilling during the summer.

Both the MAC and Halo-Yuri Projects require more geological field mapping and sampling to better define specific drill targets. Once this work has been completed a decision will be made on the timing of the additional archaeology work.

It should be noted that requiring additional archaeology does not prevent Trinex from lodging or granting of a Class A Land Use Permit, however drilling within high-risk areas is not permitted without the on-ground archaeology being completed.

**ENDS**

**Release authorised by the Board of Directors of Trinex Minerals Limited.**

### For further information please contact:

Will Dix, Managing Director  
Trinex Minerals  
Tel: +61 (0) 8 6166 0255  
Email: [wdix@trinexminerals.com.au](mailto:wdix@trinexminerals.com.au)

### Broker & Media Enquiries:

Fiona Marshall  
White Noise Communications  
Tel: +61 (0) 400 512 109  
Email: [fiona@whitenoisecomms.com](mailto:fiona@whitenoisecomms.com)

<sup>3</sup> ASX Announcement 8 January 2024 – Assay Results Confirm High Grade Lithium Mineralisation at Ross Lake

## About Trinex Minerals

Trinex Minerals Limited (ASX: TX3) is an Australian-based resources company exploring for critical minerals, which are essential for the future transition towards clean energy.

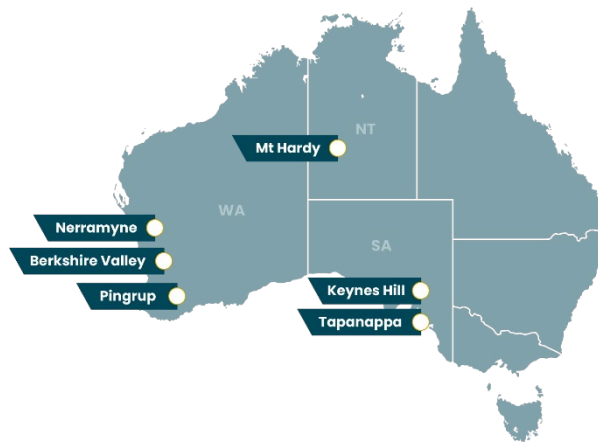
The Company holds several energy minerals projects in Canada, including lithium focused projects in the Northwest Territories, and an option to earn up to 75% in the advanced Gibbons Creek Uranium Project in Saskatchewan.

In Australia, Trinex holds a base metals resource at its Mt Hardy Project in the Northern Territory, and several exciting projects in Western Australia and South Australia.

### Canadian Projects



### Australian Projects





## Competent Person Statement

The information in this announcement that relates to Exploration Results is compiled by William Dix, who is a full-time employee and share and option holder of Trinex Minerals Limited. Mr Dix is a Fellow of the Australian Institute of Mining and Metallurgy. Mr Dix has sufficient experience of relevance to the style of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Dix consents to the inclusion in this announcement of the matters based on information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant market announcements, and that the form and context in which the Competent Persons findings are presented have not been materially modified from the original announcements.

## Forward Looking Statements

This announcement includes forward-looking statements. These statements relate to the Company's expectations, beliefs, intentions or strategies regarding the future. These statements can be identified by the use of words like "will", "progress", "anticipate", "intend", "expect", "may", "seek", "towards", "enable" and similar words or expressions containing same.

The forward-looking statements reflect the Company's views and assumptions with respect to future events as of the date of this announcement and are subject to a variety of unpredictable risks, uncertainties, and other unknowns. Actual and future results and trends could differ materially from those set forth in such statements due to various factors, many of which are beyond our ability to control or predict. Given these uncertainties, no one should place undue reliance on any forward-looking statements attributable to the Company, or any of its affiliates or persons acting on its behalf. The Company does not undertake any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Neither the Company nor any other person, gives any representation, warranty, assurance, nor will guarantee that the occurrence of the events expressed or implied in any forward-looking statement will actually occur. To the maximum extent permitted by law, the Company and each of its advisors, affiliates, related bodies corporate, directors, officers, partners, employees and agents disclaim any responsibility for the accuracy or completeness of any forward-looking statements whether as a result of new information, future events or results or otherwise.