18 April 2024

Lucy Creek Exploration Licence Granted

Litchfield Minerals Limited (ASX:LMS) (**"Litchfield"** of the **"Company"**) is pleased to announce that Lucy Creek tenement, (EL 33568) has been granted for an initial 6 year period. The Lucy Creek tenement is located approximately 400 kilometres north-east of Alice Springs (refer Figure 1) and is an 'early-stage' exploration project that encompasses an area of 791.64 square kilometres.



Figure 1 – Location map of Litchfield Minerals EL31305 Mount Doreen project and EL33568 Lucy Creek Project.

The Company considers that the project is prospective for several exploration models, namely:

(i) high-grade manganese-iron deposits, potentially associated with elevated rare earth elements (REE) and possible cobalt mineralisation;

(ii) REE mineralisation associated with Georgina Basin carbonate sediments, similar to known occurrences elsewhere in the basin;

(iii) Kimberlitic diamond mineralisation; and

(iv) Mississippi Valley style base metal mineralisation hosted by Georgina Basin sediments.

For further understanding of the geological setting and exploration focus, refer to Section 5 of the Independent Geological Report in the Prospectus lodged by Litchfield on 24 January 2024.

Subsurface geology mapping with EL33568 overlay is provided in Figure 2.

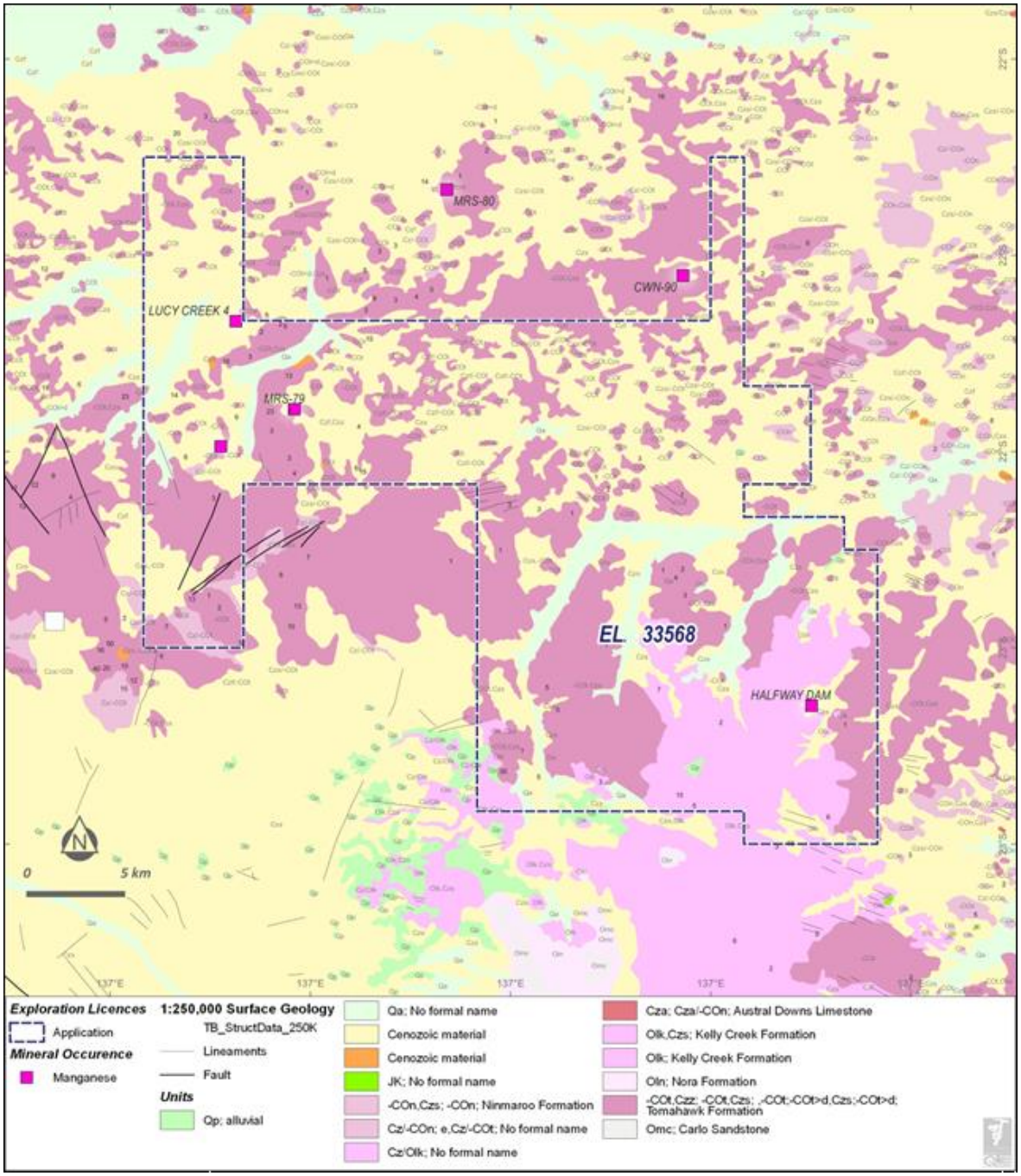

Figure 2. Lucy Creek Project location overlying 1:250,000 geology map (Ross, 2023; source GEMIS download from NTGS; https://geoscience.nt.gov.au).

Matthew Pustahya, Managing Director commented on the granting on the Lucy Creek Exploration Licence.

"The granting of our second exploration licence is great news for Litchfield as it now provides Litchfield with exploration optionality. In the short term, we have commenced desk top studies on Lucy Creek, while the Company focuses its exploration activities on the Mount Doreen tenement."

The announcement has been approved by the Board of Directors.

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About Litchfield Minerals

Litchfield Minerals is a critical mineral explorer, primarily searching for base metals and uranium out of the Northern Territory of Australia. Our mission is to be a pioneering copper exploration company committed to delivering cost-effective, innovative and sustainable exploration solutions.

We aim to unlock the full potential of copper and other mineral resources while minimising environmental impact, ensuring the longevity and affordability of this essential metal for future generations.

We are dedicated to involving cutting-edge technology, responsible practices, and stakeholder collaboration drives us to continuously redefine the industry standards and deliver value to our investors, communities and the world.

Competent Person Statement

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr. David Esser who is a Member of the Australian Institute of Geoscientists (MAIG). Mr. Esser is a consultant to Litchfield Minerals Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he 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'. Mr. Esser 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 Company's new Exploration Results. Mr. Esser has advised that this consent remains in place for subsequent releases by the Company of the same information in the same form and context, until the consent is withdrawn or replaced by a

subsequent report and accompanying consent. 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 in the market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.