



19 May 2023

## ASX ANNOUNCEMENT

# METALLURGICAL TEST WORK TO COMMENCE AT KANGAROO HILLS

## Highlights

- Minsol Engineering Pty Ltd (Minsol) appointed as the lead metallurgical and engineering consultant for the Kangaroo Hills Lithium Project (KHLP) (80%)
- Lead by Principal Mr Robert Simmons, Minsol will manage the early metallurgical test work on the recently drilled spodumene bearing diamond core
- Test work will assess the amenability to recovery via conventional methods such as Dense Media Separation (DMS) and Froth Flotation
- Mineralogical test work including core scanning to be completed in conjunction with metallurgy studies

Future Battery Minerals Limited (ASX: FBM) (FBM or the Company) is pleased to announce that **Minsol Engineering Pty Ltd (Minsol) has been appointed as the lead metallurgical and engineering consultant at the Kangaroo Hills Lithium Project (KHLP) in Western Australia.** (Future Battery Minerals 80%, Lodestar Minerals Ltd 20% (ASX: LSR)).

**Following the initial discovery in March 2023 of a spodumene bearing pegmatite, FBM is now moving to early-stage metallurgical test work in order to understand the characteristics and processing requirements of the mineralised pegmatite, as well its recovery potential.**

Minsol, led by Principal and Process Manager, Mr Robert Simmons, will manage the metallurgical and mineralogical test work on the recently drilled diamond core<sup>1</sup>. Mr Simmons has had a successful track record over the past 15 years in metallurgical test work, flow sheet development, detailed design and implementation for major lithium projects, including at Talison Lithium (Greenbushes Lithium Plants), Tianqi Lithium (Kwinana Lithium Hydroxide Plant) and Global Lithium's (ASX: GL1) (Manna Lithium Project Studies). Additionally, the engineering team at Minsol have significant experience in multi commodity processing and design.

### FBM Technical Director Robin Cox commented:

*"FBM is pleased to be partnering with the team at Minsol, a highly experienced and reputable team, who will add value to our technical understanding of this exciting project. Given the continued flow of positive results from our RC drilling campaign, we believe the timing is now right to begin early metallurgical testing activities. We hope these results will provide confirmation of the amenability of the diamond core to conventional lithium processing techniques, as well as additional mineralogy and characterisation data, which will be invaluable to our ongoing exploration activities".*

### Minsol Principal Robert Simmons commented:

*"The exploration results from the Kangaroo Hills Lithium Project have so far been very promising, as have the preliminary assessments made on the diamond core samples. We are very excited to be partnering with FBM on this highly prospective spodumene project, and believe our team can greatly assist in developing a more complete understanding of the Project's technical and commercial potential".*

<sup>1</sup> Refer to 17 May 2023 ASX Announcement – [Further thick spodumene intersections at Kangaroo Hills](#)

The early-stage test work will be conducted on the recently acquired KHLP diamond core sample, which intercepted a spodumene dominant pegmatite identified in drill hole KHDD001. The full test work schedule will be finalised after mineralogical scanning is complete. Test work will consist initially of the following methods:

- Non-destructive core scanning;
- Sample characterisation and mineralogical assessments;
- Stage crush and screening for coarse and fine mineral processing;
- Heavy liquid separation (HLS) of the coarse (+850um) fractions to determine amenability to froth Dense Media Separation (DMS);
- Preliminary grain size and liberation assessments; and
- Sighter flotation tests to determine amenability to froth flotation.

Metallurgy and mineralogy will form part of FBM's on going technical studies into the lithium mineralisation at the KHLP.



Image 1: KHDD001 showing of coarse spodumene in drill core at 64.9-65.1m down hole depth (pale green elongated phenocrysts) – *awaiting assays*

This announcement has been authorised for release by the Board of Directors of the Company.

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For further information visit [www.futurebatteryminerals.com](http://www.futurebatteryminerals.com) or contact:

Robin Cox

**Technical Director**

E: [rcox@futurebatteryminerals.com](mailto:rcox@futurebatteryminerals.com)

Mike Edwards

**Executive Chairman**

E: [mike.edwards@futurebatteryminerals.com](mailto:mike.edwards@futurebatteryminerals.com)

### Competent Persons Statement

The information in this announcement that relates to exploration results is based on and fairly represents information compiled by Mr Robin Cox BSc (E.Geol), a Competent Person, who is a Member of the Australian Institute of Mining and Metallurgy. Mr Cox is the Company's Chief Geologist 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 Cox consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

### Forward-Looking Statements

This document may include forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Future Battery Minerals Limited's planned exploration program and other statements that are not historical facts. When used in this document, the words such as "could," "plan," "estimate," "expect," "intend," "may," "potential," "should," and similar expressions are forward-looking statements. Although Future Battery Minerals Limited believes that its expectations reflected in these forward-looking statements are reasonable, such statements involve risks and uncertainties and no assurance can be given that actual results will be consistent with these forward-looking statements.

### Previously Reported Results

There is information in this announcement relating to exploration results which were previously announced on 17 May 2023. Other than those disclosed in the 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 announcement.

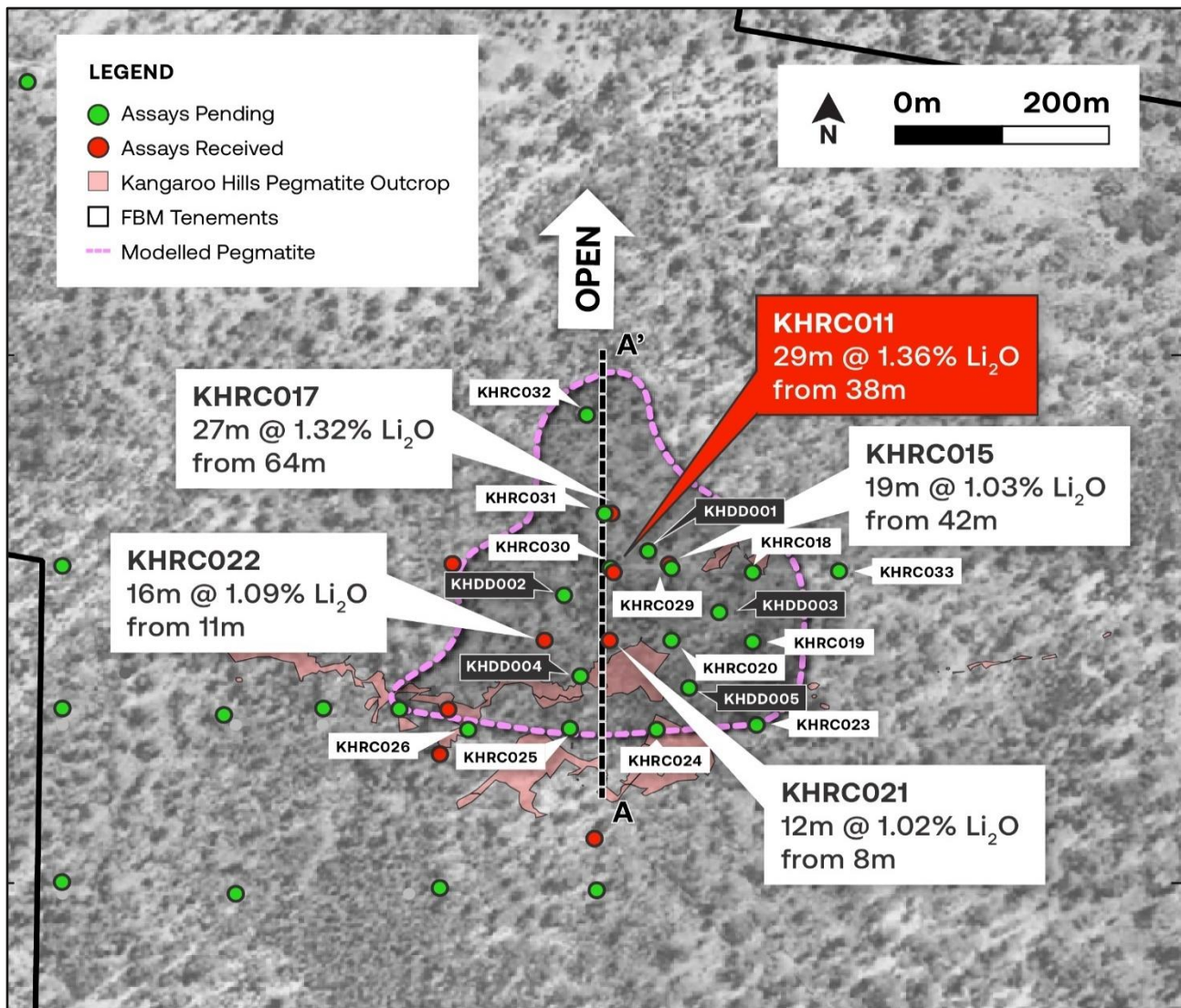


Figure 1: KHLP – Drill Holes Plan View