

Disclaimer



This presentation has been prepared by Green Critical Minerals Limited (GCM or the Company). It contains general information about the Company's activities current as at the date of the presentation. The information is provided in summary form and does not purport to be complete. This presentation is not to be distributed (nor taken to have been distributed) to any persons in any jurisdictions to whom an offer or solicitation to buy shares in the Company would be unlawful. Any recipient of the presentation should observe any such restrictions on the distribution of this presentation and warrants to the Company that the receipt of the presentation is not unlawful. It should not be considered as an offer or invitation to subscribe for or purchase any securities in the Company that would require a disclosure document under the Corporations Act 2001 (Cth) 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 presentation or any information, opinions or conclusions expressed in the course of this presentation.

Some statements in this presentation regarding future events are forward-looking statements or opinions. Such forecasts, projections and information are not a guarantee of future performance and involve unknown risks and uncertainties. Actual results and developments may differ materially from those expressed or implied. There are a number of risks, both specific to GCM, and of a general nature which may affect the future operating and financial performance of GCM, and the value of an investment in GCM including and not limited to title risk, renewal risk, economic conditions, stock market fluctuations, commodity demand and price movements, timing of access to infrastructure, timing of environmental approvals, regulatory risks, operational risks, renewal risk, renewal risk, economic conditions, stock market fluctuations, native title risks, foreign currency fluctuations, and mining development, construction and commissioning risk. You should not act or refrain from acting in reliance on this presentation, or any information, opinions or conclusions expressed in the course of this presentation. This presentation does not purport to be all inclusive or to contain all information which its recipients may require in order to make an informed assessment of the prospects of GCM. You should conduct your own investigation and perform your own analysis in order to satisfy yourself as to the accuracy and completeness of the information, statements and opinions contained in this presentation before making any investment decision. Recipients of this presentation must undertake their own due diligence and make their own assumptions in respect of the information contained in this presentation and should obtain independent professional advice before making any decision based on the information. To the maximum extent permitted by law, no representation, warranty or undertaking, express or implied, is made and, to the maximum extent permitted by law, no responsibility or liability is accepted by the Company or any of its office

This Presentation contains estimates and information concerning our industry and our business, including estimated market size and projected growth rates of the markets for our products. Unless otherwise expressly stated, we obtained this industry, business, market, and other information from reports, research surveys, studies and similar data prepared by third parties, industry, and general publications, government data and similar sources. This Presentation also includes certain information and data that is derived from internal research. While we believe that our internal research is reliable, such research has not been verified by any third party. Estimates and information concerning our industry and our business involve a number of assumptions and limitations. Although we are responsible for all of the disclosure contained in this Presentation and we believe the third-party market position, market opportunity and market size data included in this Presentation are reliable, we have not independently verified the accuracy or completeness of this third-party data. Information that is based on projections, assumptions and estimates of our future performance and the future performance of the industry in which we operate is necessarily subject to a high degree of uncertainty and risk due to a variety of factors, which could cause results to differ materially from those expressed in these publications and reports.

This document has been authorised for release by the Company's Board of directors.

Portfolio Overview



McIntosh Graphite Project Progress



Achieved 51% earn-in

Advanced to 80% earn-in complete



Metallurgical test work

Demonstrates high-purity graphite suitable for SPG battery anode production.



Strong alignment with global demand for critical minerals

Particularly in the EV and renewable energy sectors.

Strategic Acquisition of Very High Density (VHD) Technology



Enhancing product value

Through superior thermal management solutions.



Positioning GCM as a leader

In high-performance graphite applications.



Potential exposure

To the large and growing high performance computing, data centres, AI, defense, aerospace, automotive, nuclear and renewables sectors.

Diversified Asset Portfolio



Torrington Topaz-Tungsten Project

JORC-compliant resource, contributing to supply in tech and industrial markets, potential downstream technology to support product development for supply into aerospace, automotive and defense.



Greenfields opportunities

Northern Territory and Queensland tenements with IOCG and REE prospects.

Corporate Snapshot



Board of Directors

Charles Thomas

Non-Executive Chairman

Christopher Zielinski

Non-Executive Director

Clinton Booth

CEO and Managing Director

New Leadership

Clinton Booth appointed as CEO and Managing Director in 2024, bringing extensive experience in mineral exploration, project and corporate development, and corporate strategy.



Commitment to Growth

With a robust leadership team and solid financial position, we are well-positioned to advance our strategic initiatives and deliver value to our shareholders.





\$12.21 M AUD

As of 1st November 2024



Cash on Hand

\$3.12M AUD

September Quarterly Report + Capital Raise in November 2024

Strategic Development



Development Pathway



19 JUN 2024



08 JUL 2024



30 OCT 2024

Outlined a comprehensive development pathway for McIntosh, detailing steps toward production and market integration.

Announced an updated mineral resource estimate, reflecting the project's enhanced value and potential.

Announced acquisition of the VHD Technology, providing the opportunity to expand product suite downstream and into the large and growing high performance electronics, defense, aerospace, automotive, nuclear and renewable energy sectors.

Critical Mineral Status and Geopolitical Importance

Graphite's Critical Role

Recognised globally as a critical mineral essential for clean energy technologies, including electric vehicle batteries and renewable energy storage systems.

Geopolitical Significance

Securing a domestic supply of high-purity graphite positions the McIntosh Project as a strategic asset in reducing reliance on international sources, aligning with national interests in resource security.

Integration with VHD Technology

Mine-to-Market Strategy

The progression of the McIntosh Project provides the potential for a mine-to-market pathway, leveraging very high density (VHD) technology to produce high-performance graphite products.

Technological Synergy

Potential opportunity to combine McIntosh's high-purity graphite with VHD technology resulting in enhanced product quality, meeting the stringent requirements of advanced technological applications and solidifying GCM's position in the critical minerals market.

McIntosh Project¹



Project Expansion Milestones

Announced significant expansion at the Emperor target within the McIntosh Graphite Project, indicating a large-scale graphite discovery.

Updated exploration target estimate for McIntosh, reflecting increased potential and resource size.

Reported further advancements in exploration activities, reinforcing the project's growth trajectory.

Advancements in Battery Anode Suitability

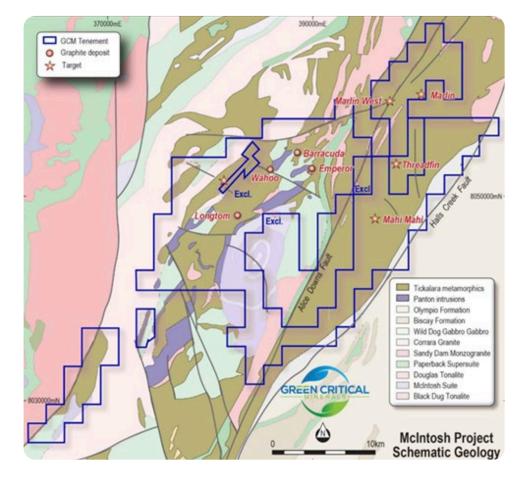
Released metallurgical test results confirming McIntosh graphite's high purity, making it suitable for spherical graphite (SPG) battery anode applications.

Provided additional data supporting the graphite's compatibility with SPG battery anode production, enhancing its market appeal.

Earn-In Achievement

Progressed the McIntosh Project and achieved a 51% interest in the McIntosh Project.

Achieved 80% interest in the McIntosh Project.



Torrington Project Unlocking Future Potential





Strategic Resource

Tungsten

Classified as a globally critical mineral, essential for industrial and defence applications.

Strategic Importance

In the geopolitical landscape ensures robust demand and aligns with GCM's focus on critical minerals.



Resampling of Existing Drill Core

Ongoing analysis of historical drill cores

To refine resource estimates and assess new development opportunities.

This work supports preparation

For potential advancements in the Torrington Project.



R&D on Single Crystal Mullite Fibres

GCM is reviewing previous research

with plans to restart research and development on single crystal mullite fibres.

Advanced material holds significant promise

With potential for high-performance applications in aerospace, automotive and defense industries.



Boulia Project Strategic Greenfields Exploration





Strategic Location

Situated in the fertile Mt Isa / Cloncurry district and adjacent to tenements held by Anglo American.



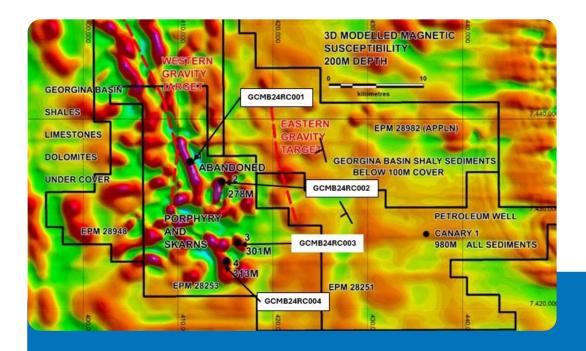
Novel Geological Interpretation

Drilling confirmed the novel geological interpretation of porphyries and skarns, resulting in the first instances of veined intrusions and associated alteration systems in the Georgia Basin².



Active Exploration Focus

Ongoing geophysical surveys, geochemical analysis, and planning to advance and unlock the mineral potential at Boulia.



Exploration Activities and Drilling Results

Mineral Targets

Focused on identifying Iron Oxide Copper Gold (IOCG) deposits.

Drilling Program

Initiated in July 2024, with results announced on November 18, 2024, confirming the presence of porphyries and skarns, with detectable zones of copper and gold encountered.

North Barkly Project Strategic Expansion and Exploration

Minerals Targeted and Drilling Results



Surface geochemical surveys and drilling

Identified significant rare earth elements (REE), Iron Oxide Copper Gold (IOCG), and base metal targets.

Follow-up drilling

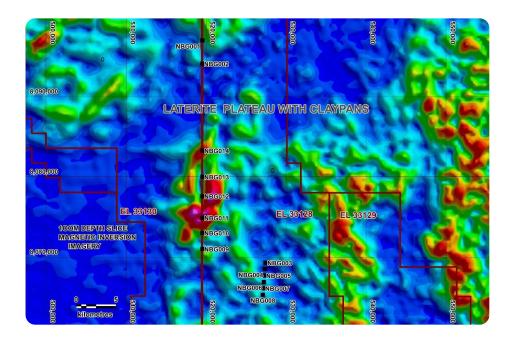
Confirmed extensive REE mineralization, including high-grade zones, supporting the project's advancement.

Tenements Granted and Applications



GCM has expanded its North Barkly project area

With multiple granted tenements and additional exploration applications, significantly increasing its landholding.



GREEN CRITICAL MINERALS

Active Landholding and Exploration Focus



Large land package

GCM holds a large and strategically important land package in the North Barkly region.

Ongoing exploration

Including geochemical surveys and drilling, demonstrates a strong commitment to advancing the project and unlocking its mineral potential.

GCM Positioned For Growth



Advancements in Very High Density (VHD) Technology



Acquisition of a revolutionary technology to produce very highdensity graphite blocks with the highest thermal conductivity and lowest electrical resistivity recorded for any bulk graphite material.

McIntosh Project Development



Significant progress in the McIntosh Graphite Project, including a 26% upgrade to the Mineral Resource Estimate (MRE)³ and the commencement of the Pre-Feasibility Study (PFS).

Progress in Single Crystal Mullite Fibre Development



GCM is reviewing previous research with plans to restart research and development on single crystal mullite fibres. This advanced material holds significant promise for high-performance applications in aerospace, automotive and defence industries.

Strategic Outlook



These developments position GCM for substantial growth in the coming year, enhancing our capabilities in advanced materials and expanding our resource base to meet increasing market demands.

