

4 October 2023

Investor Update Presentation Deck Exploration Success at the Pomme REE-Nb Project in Québec.

MTM Critical Metals Limited (ASX:MTM) is pleased to provide a presentation deck which provides an update of the Company's exploration program and recent drilling results from the Pomme REE-Nb Project in Canada.

For further details regarding the attached presentation, refer ASX announcement dated 28 September 2023 titled "*High grade total rare earth element oxide (TREO) drilling results returned over significant widths at the Pomme REE-Nb Project, Québec*".

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

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About MTM Critical Metals Limited

MTM Critical Metals Limited is an exploration company which is focused on searching for rare earth elements (REE), gold, lithium, nickel, and base metals in the Goldfields and Ravensthorpe districts of Western Australia and in the Abitibi region of the Province of Québec. The Company holds over 4,500km² of tenements in three prolific and highly prospective mineral regions in Western Australia and has an option to acquire, through an earn-in arrangement, a 100% interest in 2,400 ha of exploration rights in Québec, Canada. The East Laverton Projects is made up of a regionally extensive package of underexplored tenements prospective for REE, gold and base metals. The Mt Monger Gold Project comprises an area containing known gold deposits and occurrences in the Mt Monger area, located ~70km SE of Kalgoorlie and immediately adjacent to the Randalls gold mill operated by Silver Lake Resources Limited. The Ravensthorpe Project contains a package of tenements in the southern part of Western Australia between Esperance and Bremer Bay which are prospective for a range of minerals including REE, lithium, nickel and graphite. The Pomme project in Québec is a known carbonatite intrusion that is enriched in REE and niobium and is considered to be an extremely prospective exploration target adjacent to a world class REE resource (Montviel deposit). Priority drilling targets have been identified in all project areas and the Company is well funded to undertake effective exploration programs. The Company has an experienced Board and management team which is focused on discovery to increase value for Shareholders.

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REE Exploration in Québec, Canada Investor Update October 2023



2023 MEMBER

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Cautionary Statement Regarding Exploration & Development, Values & Forward-Looking Information

The tenements comprising the East Laverton REE Projects and Pomme REE-Nb Project (Projects) are at various stages of exploration and development and potential investors should understand that mineral exploration and development are high-risk undertakings. There can be no assurance that exploration and development of the Projects, or any other tenements that MTM Critical Metals may acquire in the future, will result in the discovery of an economic deposit. Even if an apparently viable deposit is identified, there is no guarantee that it can be economically exploited. Specifically, investors are cautioned that the Projects have no reported mineral resources or ore reserves and that the proximity of the Projects to any deposit and any geological similarities with that deposit are no guarantee that the Project will be prospective for an economic reserve.

It is a requirement of the ASX Listing Rules that the reporting of exploration results in Australia comply with the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code"). Investors outside Australia should note that while exploration results pertaining to the Projects comply with the JORC Code, they may not comply with the relevant guidelines in other countries and, in particular, do not comply with National Instrument 43 101 (Standards of Disclosure for Mineral Projects) of the Canadian Securities Administrators (the "Canadian NI 43 101 Standards").

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Recent Drilling Success

- **Diamond drilling program completed at Pomme Rare Earth Element & Niobium project located in Québec, Canada**

Excellent geological prospectivity for significant discovery:

- Carbonatite host rock – large, higher-grade deposits, primary REE-Nb source
- REE-Nb mineralisation over very broad intervals in diamond drilling, including high-grade TREO intersections

POM-23-03: 398m @ 0.54% TREO & 0.05% Nb₂O₅ from 16m, including:

30.5m @ 1.13% TREO & 0.03% Nb₂O₅ (from 311.5m) including

26.5m @ 1.45% TREO & 0.02% Nb₂O₅

51m @ 0.92% TREO & 0.06% Nb₂O₅ (from 216m) including

9m @ 1.21% TREO & 0.03% Nb₂O₅ and

8.5m @ 1.62% TREO & 0.03% Nb₂O₅

36m @ 0.92% TREO & 0.06% Nb₂O₅ (from 174m) including

18m @ 1.16% TREO & 0.03% Nb₂O₅

POM-23-01: 513m @ 0.33% TREO & 0.08% Nb₂O₅ (from 32m), including:

131m @ 0.47% TREO & 0.05% Nb₂O₅ (from 317m) including

2.65m @ 1.47% TREO & 0.02% Nb₂O₅, and

2.65m @ 1.48% TREO

43.4m @ 0.45% TREO & 0.12% Nb₂O₅ (from 216.1m)

Visible REE-Nb mineralisation observed over large area in drilling – extensive system defined
Premium location, accessible and proximal to known existing REE resource at Montviel



Drilling at Pomme REE-Nb Project



Hole POM-23-13,
August 2023

Pomme Project Overview



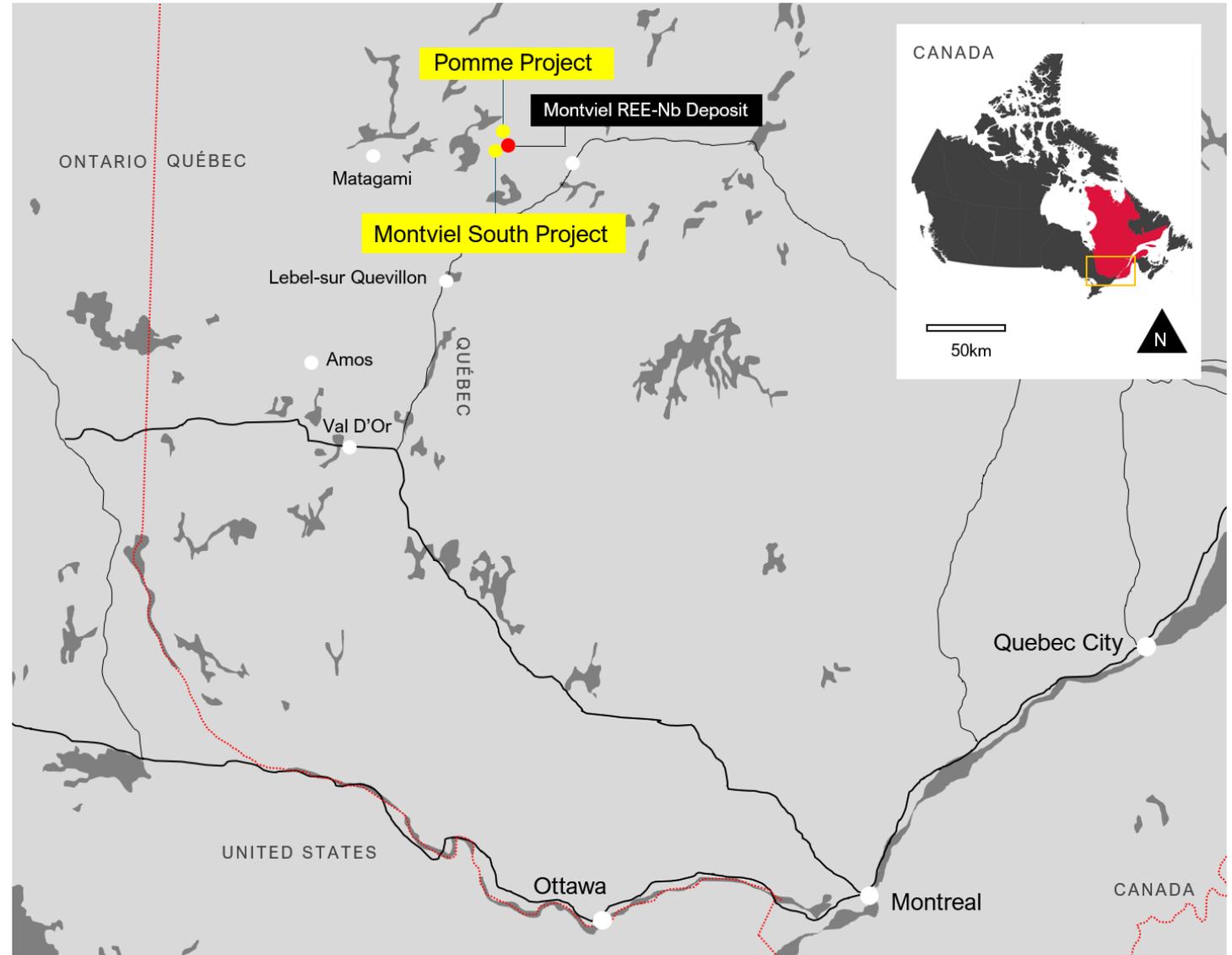
Advanced carbonatite REE-Nb Project

- MTM has secured the exclusive and binding option to acquire 100% of the **Pomme REE-Nb Project**
- Diamond drilling program completed – 13 holes, ~5,700m
- Carbonatite-hosted REE-Nb mineralisation observed in every drill hole, high-grade intersections in first holes
- The project is located only 7km from the world class carbonatite-hosted Montviel Deposit which has a total Indicated and Inferred resource of **266 Mt @ 1.46% TREO and 0.14% Nb₂O₅**
- The Pomme project presents as an extremely prospective target in an established region of Québec
- Existing technical team supporting work program on contract basis
- Government support and existing arrangements with local Cree First Nations of Waswanipi (CFNW) community

Location & Access

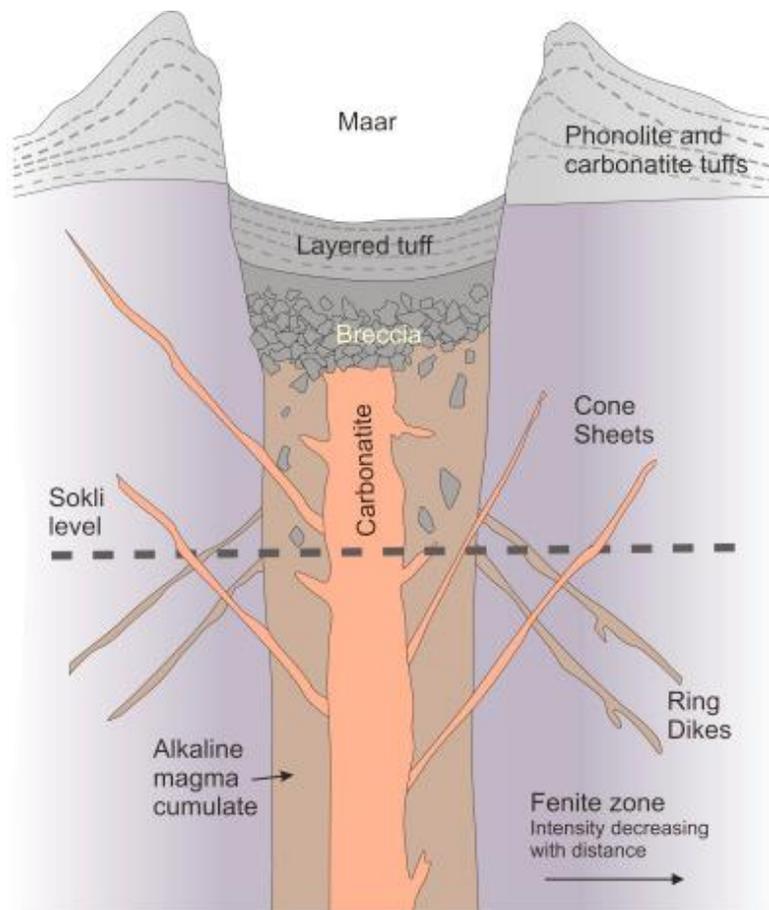
Very favourable for exploration & development

- The project is located 500 km NW of Montreal in Québec
- 100 km from the town of Lebel-sur-Quevillon, where services and manpower are available
- 50 km W of Waswanipi Cree First Nation community
- Easily accessible claims via logging roads
- Access to hydro-electricity via local infrastructure
- Relatively flat topography
- Covered by a mix of forest and swamp
- Extensive mining infrastructure and services in the famous Abitibi Belt
- Sub-arctic climate with year-round field season



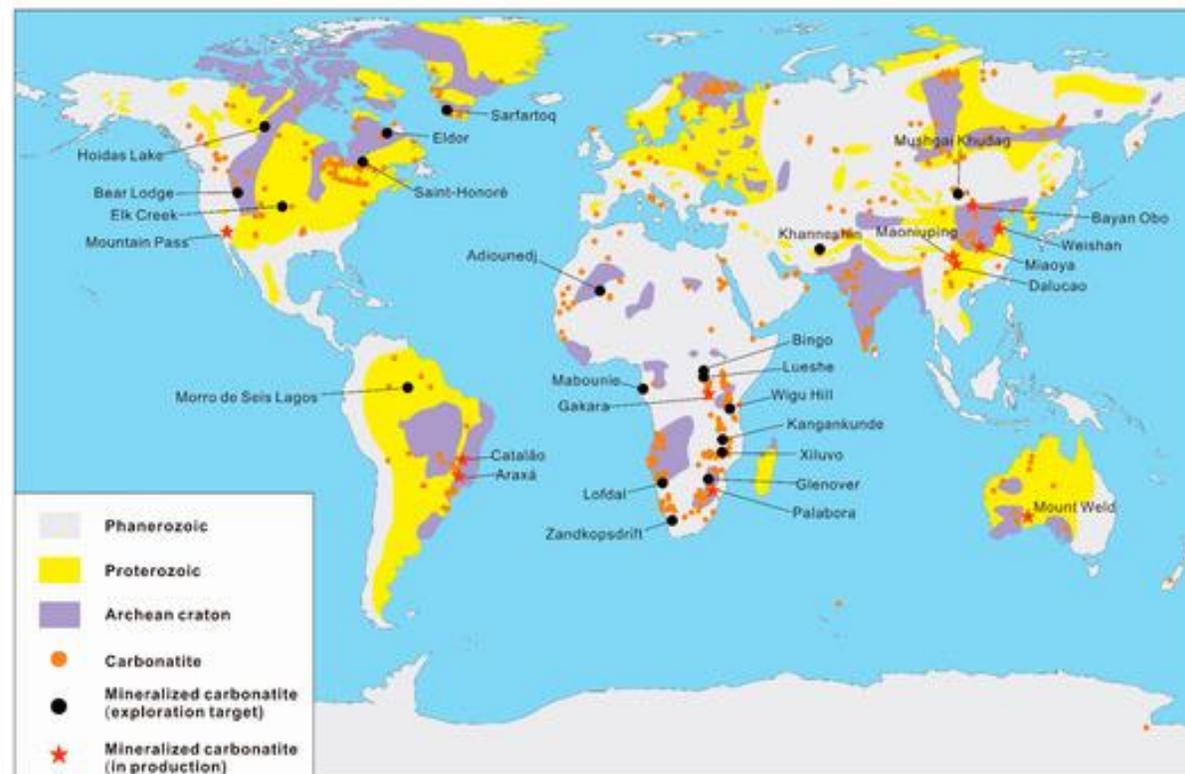
Pomme REE-Nb Project location map

Carbonatites: What are they and why are they important?



Schematic carbonatite cross section (O'Brien, 2015, adapted from Ernst, 2014)

- Relatively rare, only about 600 known worldwide
- Primary source of rare earth elements and niobium
- High grade hard-rock deposits mined with traditional open pit or underground methods
- Refractory minerals require intensive processing



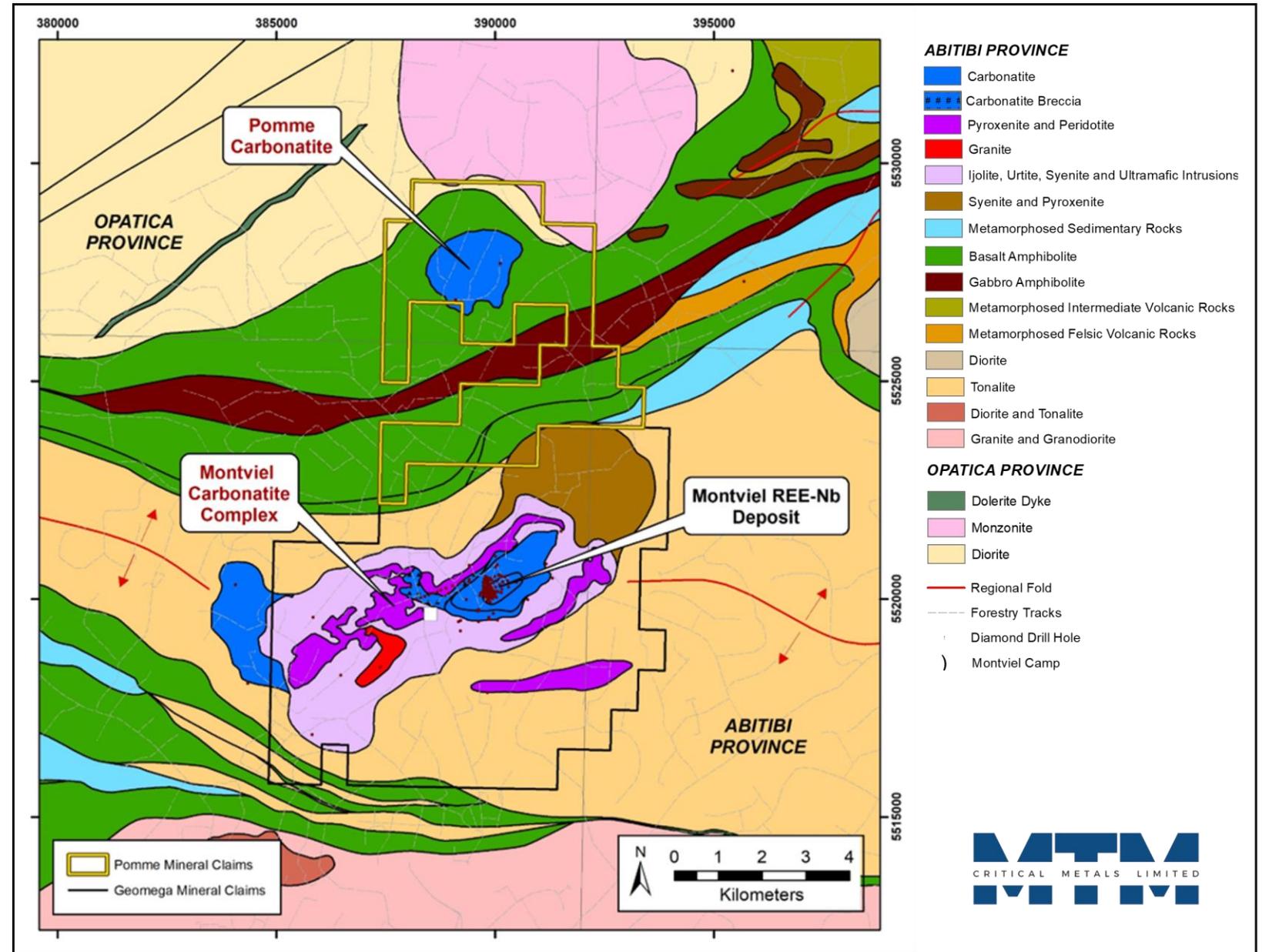
Location of carbonatites and associated REE deposits (Wang et al 2020)

- Unusual carbonate magmatic/volcanic rocks

Pomme Project Geology

Lookalike to Montviel REE deposit

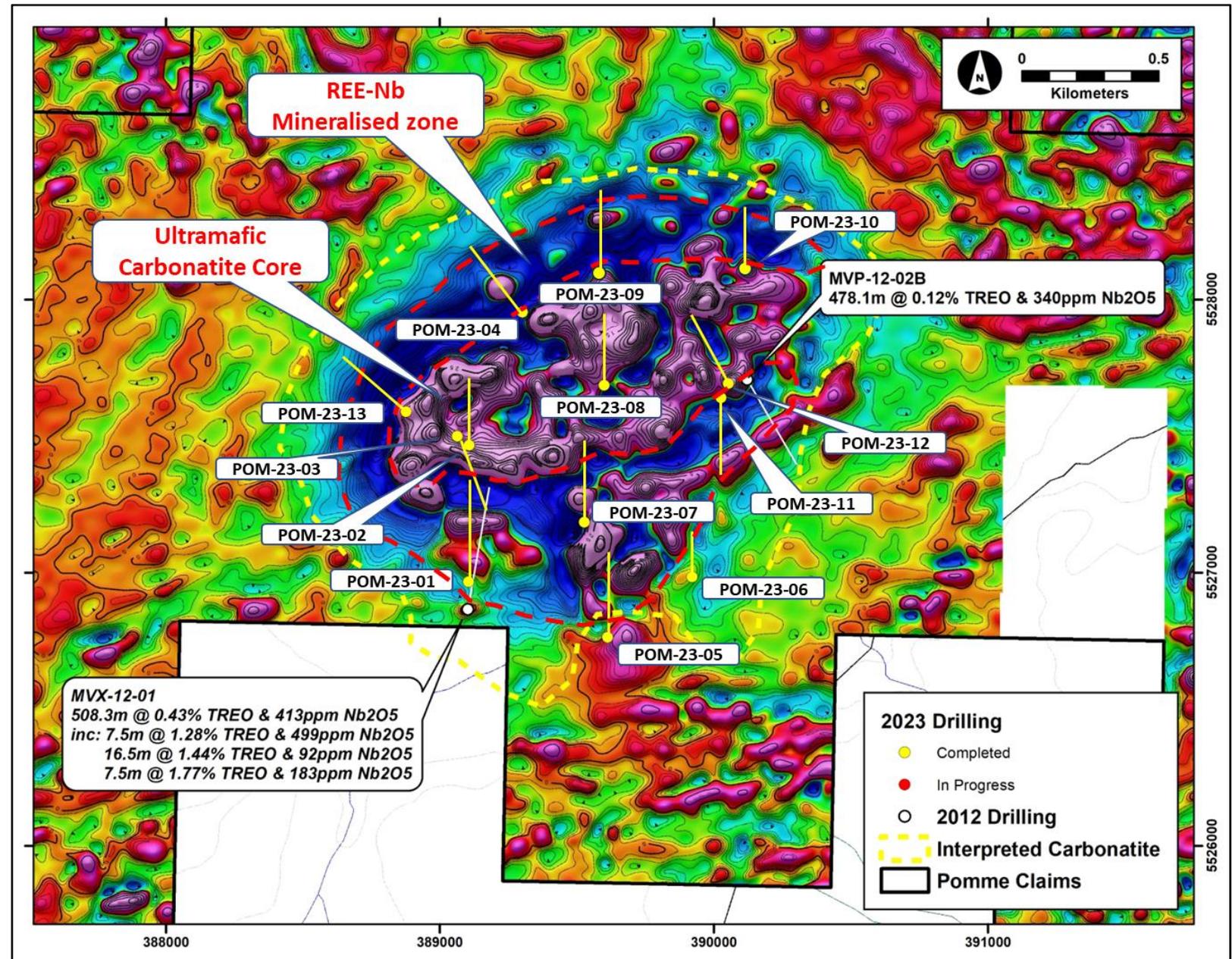
- Pomme carbonatite intrudes into sequence of mafic volcanic rocks
- Mostly covered and few exposures of bedrock
- Montviel deposit likewise hosted by carbonatite, within an alkali intrusive complex that intrudes an intermediate granitoid
- Mineralisation hosted by specific carbonatite intrusions and structures defined by drilling – small part of intrusion



Simplified interpreted geology of the Montviel deposit and Pomme project area (SIGEOM)

Pomme Project 2023 Drilling

- Total of 13 diamond drill holes completed for ~5,700 m
- Mineralisation observed in every hole – big system, >2km²
- First holes intersected visually mineralised carbonatite from close to surface to EOH and system is open at depth
- Logging completed and assaying in progress
- Geology apparently very similar to Montviel deposit
- Evaluation of geology and mineralisation across carbonatite complex



Drill status map of the Pomme Project area overlain on airborne magnetic image (TMI, 1VD)

Visual REE Mineralisation



Hole POM-23-01, 91.1 – 95.5 metres
downhole depth

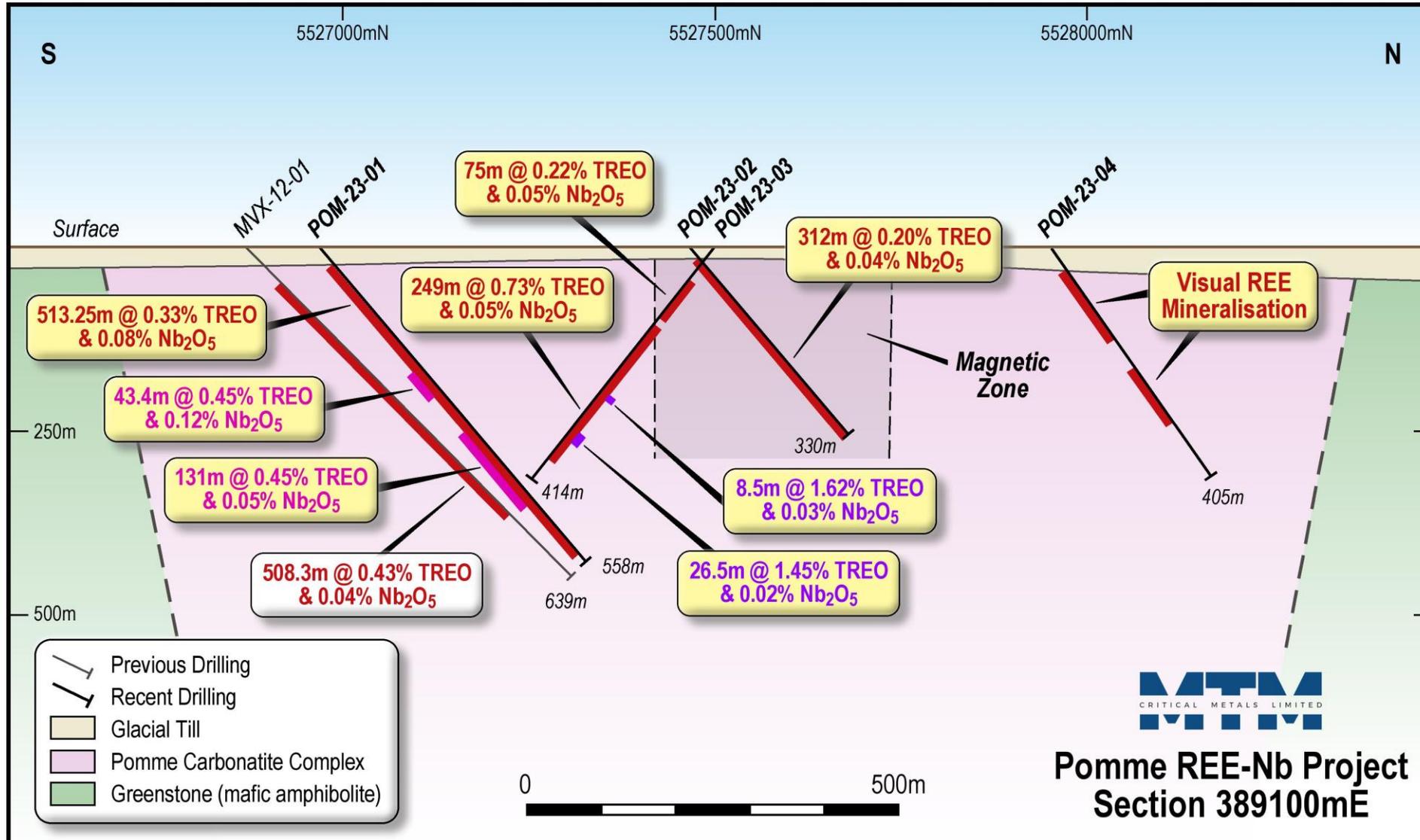


Hole POM-23-01, Box 3, 39.0 – 43.5 metres
downhole depth



Hole POM-23-01, 475.6 – 479.9 metres downhole depth

Pomme Project Intersections



Simplified geological cross-section 389,100mE showing historical and recent diamond drilling

Next Steps



- **Assess diamond drilling results**

Assay results for 10 remaining drill holes awaited

Visual mineralisation observed in all drill holes, including higher-grade zones

- **Modelling of geology and mineralisation**

Integration of geological logging, assay results and geophysics into 3D model

Identification of targets for follow-up

- **Preliminary metallurgical test work**

Selection of diamond drill core for characterisation tests

Utilise existing knowledge at Montviel to tailor and accelerate metallurgical assessment

- **Plan program for 2024 field season**

Further drilling with objective of **discovery and delineation of REE-Nb resource**

Corporate Overview



Capital Structure

Share Price (29/09/2023)	\$0.037
Shares on Issue (MTM)	98.9 M
Listed Options (MTMO)	52.8 M
Unlisted Options	10.3 M
Performance Rights	0.7 M
Market Capitalisation (undiluted)	\$3.6 M
Cash (approx.)	~\$0.9 M
Debt	Nil

Major Shareholders

Board & Management	11.6 %
Top 20 (excluding B & M)	22.6 %
Other	65.8 %

Board & Management Team

BOARD OF DIRECTORS



John Hannaford
Non-Executive Chairman
 CA, B.Com, F.Fin

- 25 years experience in resources and financial sectors
- Highly experienced in executive and non executive roles, corporate advisory, directorships, IPOs, RTO and funding



David Izzard
Non-Executive Director
 CPA, MBA, GAICD, B.Bus, M.Sc

- 20 years experience in the resources and finance industry
- Highly experienced Director, extensive skills in all aspects of financial, commercial and corporate activities



Lachlan Reynolds
Managing Director
 BSc (Hons), MAusIMM, MAIG

- Geologist with more than 30 years involvement in mineral exploration, project feasibility and mining across multiple commodities
- Experienced executive and senior manager for a number of ASX listed companies

Tony Hadley
Non-Executive Director
 BSc (Hons)

- Metallurgist with extensive experience in processing of REE deposits in Australia and Canada
- Experienced senior manager for a number of ASX listed companies

MANAGEMENT TEAM



Simon Adams
CFO & Company Secretary
 BBus, MAcc

- Over 25 years of experience with listed (ASX and NASDAQ) and private companies in Australia.
- Experience in the areas of corporate and financial management, corporate compliance and business development.



Antony Zebisch
Exploration Manager
 BSc, Grad Dip Mining, MBA, MAusIMM

- Geologist with more than 20 years of experience in exploration and mining.
- Extensive experience operating in Western Australia.



Michael Walshe | Mineral Processing Consultant
 B.Eng. (Hons) Chem., MIEAust CPEng, MBA (Finance), MAusIMM

- 10 yrs Metso Outotec REE & lithium met process design



Claudio Sheriff-Zegers | REE Exploration Consultant
 BSc Minerals Exploration and Mining Geology, MAusIMM

- Ex Asra (ASX: ASR)
- Ex Northen Minerals (ASX:NTU)

Contact Details



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Statements

Competent Person's Statement

The information in this presentation that relates to Exploration Results is based on and fairly represents information compiled by Mr Lachlan Reynolds. Mr Reynolds is the Managing Director of MTM Critical Metals Limited and is a member of both the Australasian Institute of Mining and Metallurgy and the Australasian Institute of Geoscientists. Mr Reynolds has sufficient experience of relevance to the styles of mineralisation and 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 Reynolds consents to the inclusion in this report of the matters based on information in the form and context in which they appear.

Previous Disclosure

The information in this presentation is based on the following MTM Critical Metals Limited ASX Announcements, which are available from the MTM Critical Metals website www.mtmcriticalmetals.com.au and the ASX website www.asx.com.au:

- 23 February 2023 "Mt Monger to Acquire Advanced Carbonatite REE-Nb Project in Canada"
- 15 May 2023 "Drilling Confirms Further Rare Earth Element Mineralisation and Increased Potential at East Laverton"
- 19 May 2023 "Laterite Nickel Discovery at East Laverton"
- 6 June 2023 "Over 500 Metres of REE Mineralisation Intersected in First Diamond Drill Hole at the Pomme Project"
- 28 July 2023 "Diamond Drilling at Pomme REE-Nb Project Extends Known Mineralised Zones"
- 4 September 2023 "Diamond Drilling at Pomme REE-Nb Project Identifies Widespread Mineralisation"
- 28 September 2023 "High grade total rare earth element oxide (TREO) drilling results returned over significant widths at the Pomme REE-Nb Project, Quebec"

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