

# **Strategic Highlights**



#### The Right Place

Exceptional location, highgrowth market and infrastructure rich

#### **The Right Project**

Resource-backed with growth potential

#### The Right Pathway

Clear pathway to advance the Project and deliver lithium products to market

- Ontario provides supportive Provincial and Federal Governments plus potential access to US Government initiatives
- Unprecedented investment into North American electric vehicle supply chains
- Project location and existing infrastructure (road, rail and port) provides significant operational and financial advantages
- Flagship Mavis Lake Lithium Project Maiden Mineral Resource Estimate (MRE) 8Mt @ 1.07% Li<sub>2</sub>O, drilling subsequent to MRE release has included world-class intercepts up to 74.4m @ 1.18% Li<sub>2</sub>O\*
- Potential for further discoveries, multiple mapped spodumene bearing pegmatites yet to be drill tested
- Met testwork delivered high recoveries (up to 87%) with excellent concentrate grades (5.9-6.4% Li<sub>2</sub>O)\*
- Ore sorting trials delivered outstanding (98%) waste rock separation
- Focussed project development activity being conducted in parallel with continued resource growth and permitting
- Development Team leveraging experience gained from previous hard rock lithium projects
- Economic Assessment being undertaken, Project economics to drive value creation
- Ownership = 100%, Offtake = 100% Uncommitted

\* Refer to Appendix

# **Corporate Snapshot**

#### **Capital Structure**

Share Price (30 April 2024)	AUD\$0.013
Shares	1.78b
Market Cap. (undiluted)	~AUD23m
Cash (31 March 2024)	AUD\$3.4M
Debt	\$0
Options (47m - \$0.04 strike – expiry 3 Dec 24)	AUD\$1.88m

# Share Register Board and Management Institutional Holders HNW

#### **Board of Directors**





#### Alex Cheeseman Managing Director

20+ years leadership and management across projects and operations. 7 years dedicated to the lithium industry (former GM Altura Mining).

Extensive experience building and managing high-performance teams operating in multiple jurisdictions.



#### Robert Martin Non-Executive Chairman

A successful businessman and accomplished company Director with over 25 years' experience across mining and mining services.

Significant experience in capital markets and corporate strategy. Chairman of ASX:BM8, ASX:EQN and ASX:PLN, NED of ASX:PKD and TSX:VCT.



#### John Markovic Non-Executive Director

Highly successful businessman, with proven history in value creation.

Strategic expertise in marketing, financial planning and risk management.

Track record in achieving high-growth for shareholders.



#### Nigel Broomham Non-Executive Director

A professional geologist with 10+ years dedicated in exploration for battery raw materials.

Former Head of Geology for Pilbara Minerals (ASX:PLS). Current CEO Battery Age Minerals (ASX:BM8) and NED Pioneer Lithium (ASX:PLN).



#### **Anthony Tse** Strategic Advisor

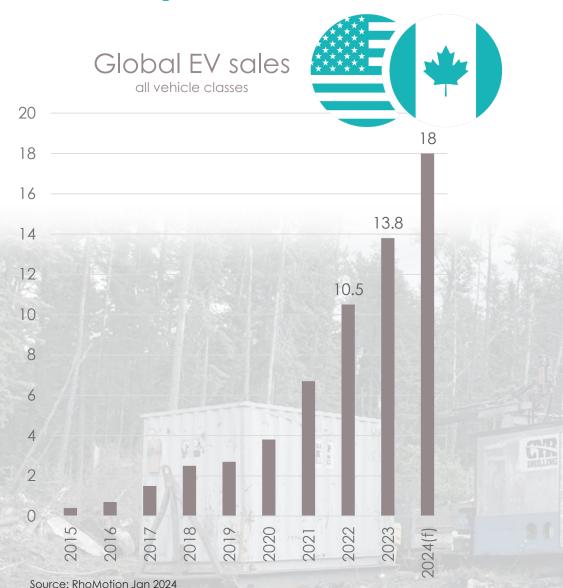
Early pioneer and veteran of the lithium industry.

Former CEO of Galaxy/Allkem – now the 5th largest lithium producer.

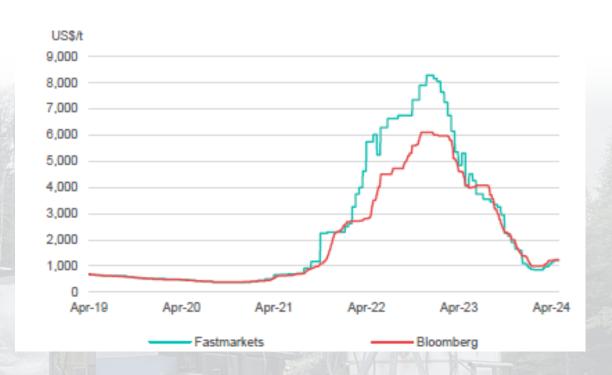
Extensive strategy, management and investment experience across the battery value chain globally.

# **Market Dynamics**





#### Spodumene (5-6% Li<sub>2</sub>O) CIF China



# **Strategy for Value Creation**



# Grow to Full Potential

Year on year
Resource growth
through exploration
success and organic
Resource expansion

## Advance Towards Production

Project development through permitting, technical and economic studies with ongoing Community engagement

# Secure Strategic Partners

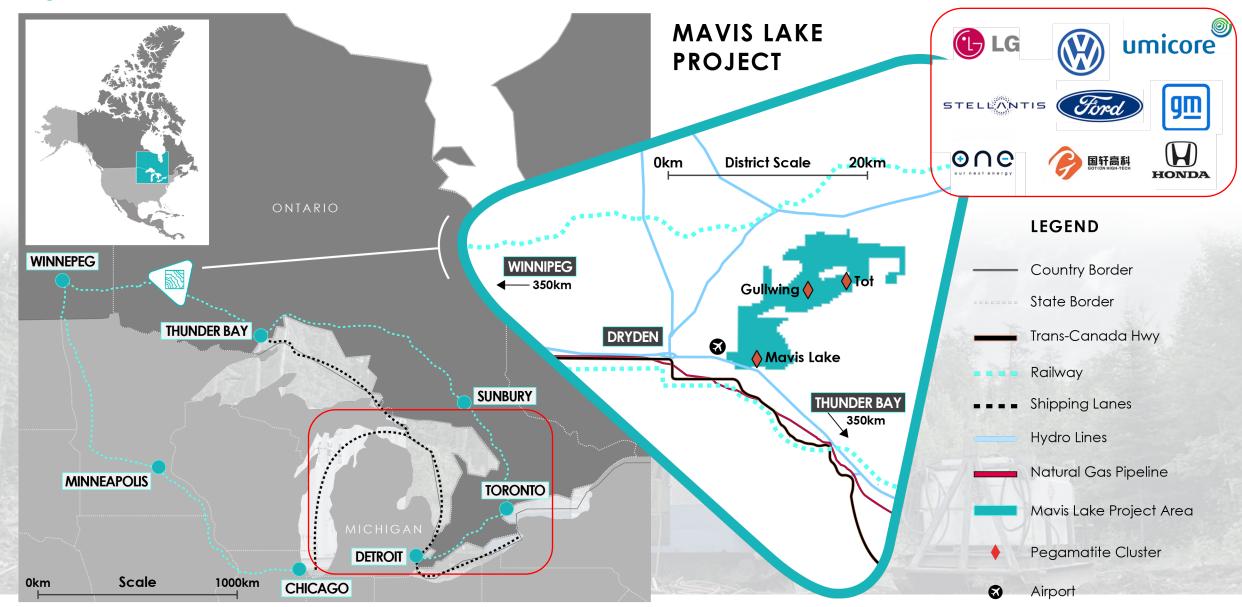
Leverage early mover advantage and management credentials to secure value accretive strategic partnerships

www.criticalresources.com.au info@criticalresources.com.au Corporate Presentation 5



# **Project Location**



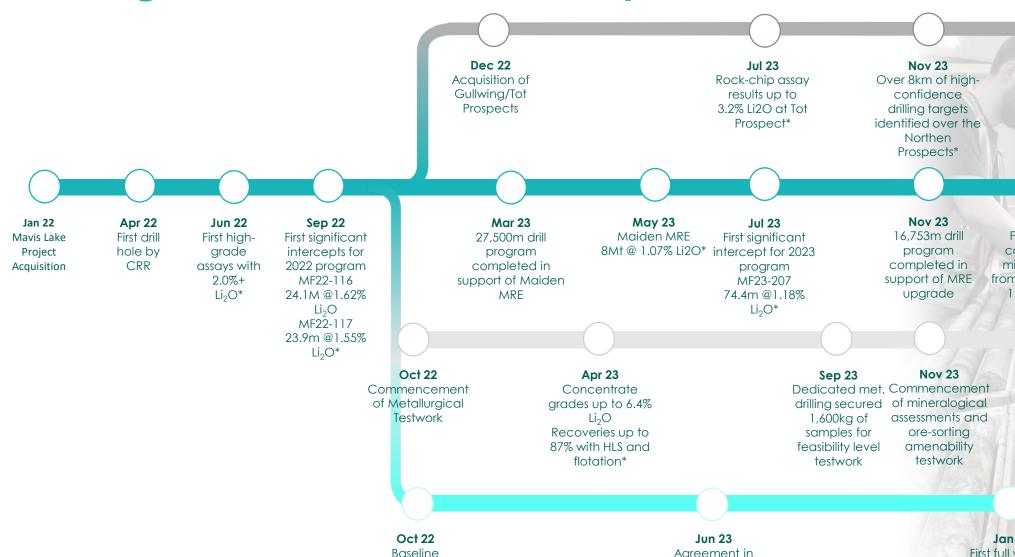


# **Building Momentum Since Acquisition**

Environmental

Assessment





Mar 24

Geochemistry and geophysics identifies multiple anomalies/high priority drill targets\*

Feb 24 Final assays confirm thick mineralisation from surface over 1.1km strike\*

Apr 24

Outstanding oresorting results\* and commencement of bulk testwork

Agreement in Principle signed and ceremony with Wabigoon Lake Oiibway Nation

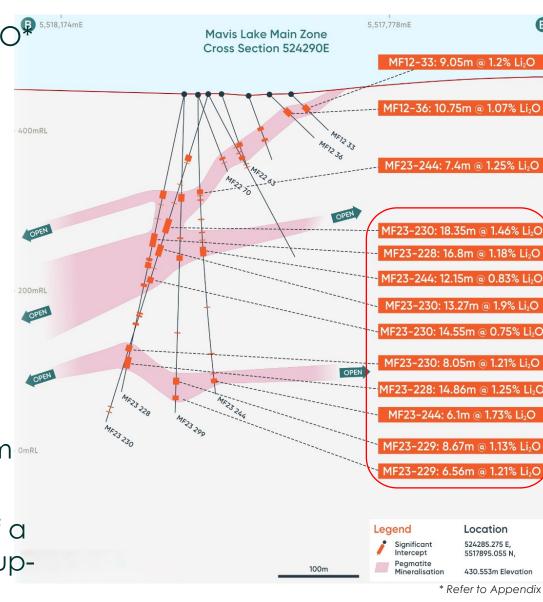
Jan 24 First full year of baseline monitoring complete

\* Refer to Appendix

## Maiden Resource with Growth Potential



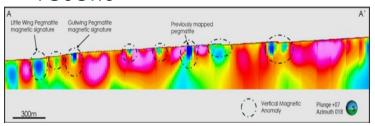
- Maiden MRE released in May 2023 8Mt @ 1.07% Li<sub>2</sub>O®
- Maiden MRE included drilling results up to 30 March 2023, a further 16,753m was drilled in CY 2023
- June-November 2023 saw outstanding intercepts\* including:
  - Drill Hole MF23-207 with 74.4m @ 1.18% Li<sub>2</sub>O
  - Drill Hole MF23-213 with 50.2m @ 1.28% Li<sub>2</sub>O
  - Drill Hole MF23-225 with 37.75m @ 1.12% Li<sub>2</sub>O
- Updated resource model being developed, with expectation of first MRE upgrade in H2 2024
- Thick, high-grade lithium mineralisation, starting from surface, over a 1.1km strike
- Drilling late in 2023 also confirmed the discovery\* of a new/lower mineralised stack, which remains open updip and down-dip

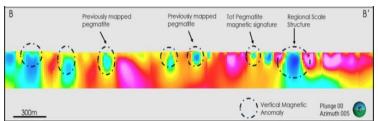


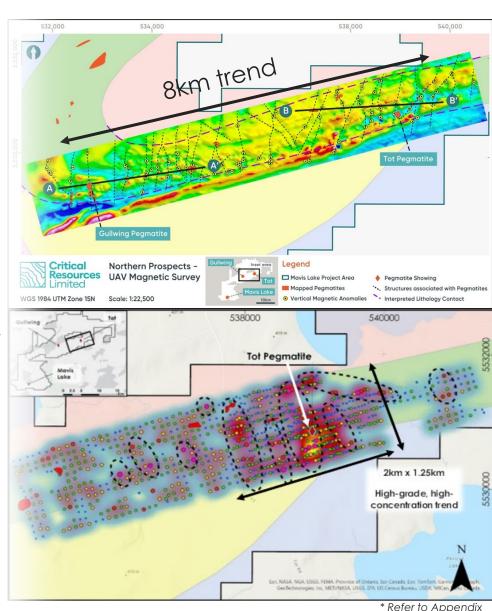
# **Unlocking District Scale**

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- Approximately 8km of strike with high-grade assays\* from rock chips and channel sampling including:
  - Sample 159082 Gullwing rock chip @ 6.78% Li<sub>2</sub>O
  - Sample 157856 Tot 1.3m channel sample @  $2.88\% \text{ Li}_2\text{O}$
  - Sample 347562 Tot rock chip @ 3.21% Li<sub>2</sub>O
- Soil sampling identified 1 x 1.25km trend extending from the Tot pegmatite\*
- Low altitude, high-resolution aeromag and LIDAR survey identified multiple magnetic signatures consistent with previously mapped spodumene bearing pegmatites\*
- Field work commencing in May to ground truth recent results

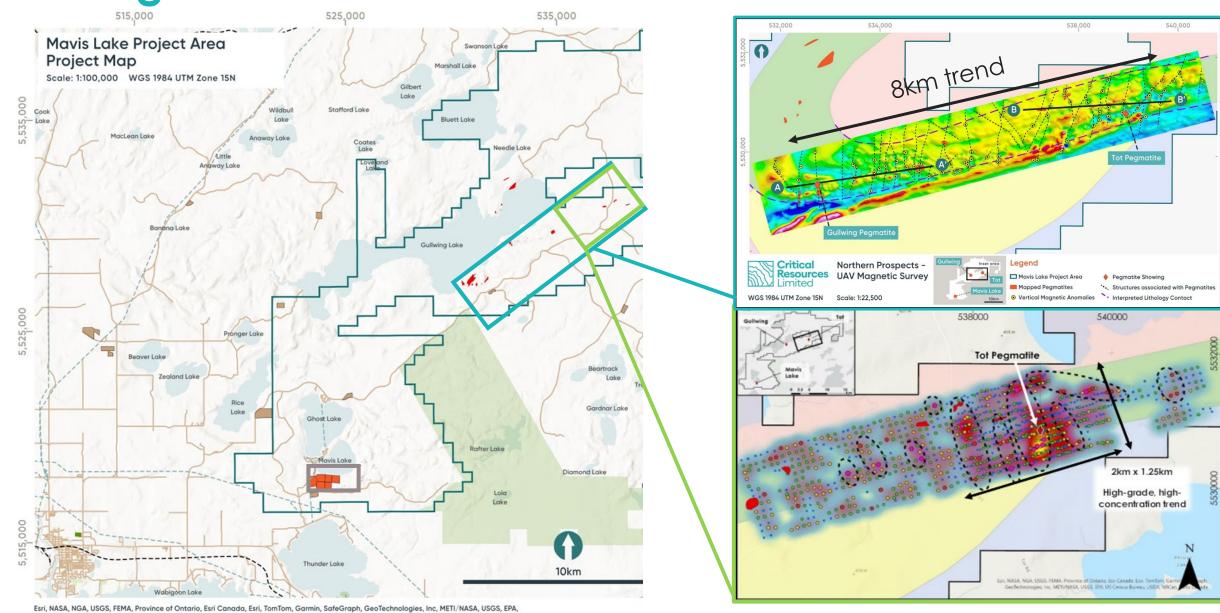






# **Unlocking District Scale**





# **World Class Infrastructure**

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- All field activities based out of Dryden a low-cost, well serviced base for future growth
- Road and rail options to a number of deepwater ports, all currently supporting dry-bulk cargo export
- Growing services and opportunities in Dryden potential for contracted services to provide multi-user camp, laboratory and warehouse solutions

Direct access to infrastructure and utilities – significant

CAPEX savings

Key Infrastructure	Distance to ML Resource
Trans-Canada Highway	4.5 km
230Kv Power Lines (Hydro)	1.5 km
Dryden City Centre	14 km
Natural Gas Pipeline	5.7 km
Public Road	588 m
Airport	6 km
Canadian Pacific Railway	5.5 km
Canadian National Railway	21.2 km





# **Detailed Flowsheet Development**



- Heavy Liquid Separation (HLS) delivered spodumene concentrate up to 6.4% Li<sub>2</sub>O with very low Fe<sub>2</sub>O<sub>3</sub>.
- Optimization work (HLS and flotation) delivered recoveries up to 87%\*
- QEMSCAN has identified predominantly large spodumene crystals and confirms spodumene is the predominant lithium mineral
- Ore sorting amenability trials completed\*:
  - 150% Li<sub>2</sub>O increase for UV sorting
  - 98% waste rock rejection from XRT sorting
- Bulk ore sorting and DMS test work program commenced in April 2024 results to underpin Scoping Study flowsheet design and economic parameters
- Hybrid DMS and flotation flowsheet anticipated designing a staged project delivery approach to minimise upfront CAPEX requirement

\* Refer to Append

# **2024 Workstreams**



Q4 2024

#### **Exploration and Resource Growth**

Drill testing Northern Prospects

Main Zone extension drilling

Mineral Resource Estimate – Upgrade (from 2023 drilling)

Mineral Resource Estimate – Upgrade (from 2024 drilling)

Prospecting and target generation

#### Project Advancement and Technical Development

Baseline Environmental Studies

Mining study

Bulk DMS and Ore Sorting test-work

Scoping Study/Preliminary Economic Assessment

Project Description (Ontario/Canadian Government)

Hydrogeology and geotech drilling/testing

Community engagement

#### Corporate

Strategic Partnering

Initial Offtake

Strategic asset/opportunity review

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Q2 2024

Corporate Presentation

Q3 2024



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# **Exploration and Metallurgy Disclosure**



#### **COMPLIANCE STATEMENT**

This document contains information relating to Exploration Results in respect of the Mavis Lake project extracted from ASX market announcements reported previously and published on the ASX platform on those dates noted below.

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 and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed.

- Drill Hole MF12-33 refer to ASX announcement dated 25 October 2021
- Drill Hole MF12-36 refer to ASX announcement dated 25 October 2021
- Drill Hole MF17-49 refer to ASX announcement date 25 October 2021
- Drill Hole MF18-53 refer to ASX announcement date 25 October 2021
- Drill Hole MF22-64 refer to ASX announcement dated 16 June 2022
- Drill Hole MF22-72 refer to ASX announcement dated 21 July 2022
- Drill Hole MF22-116 refer to ASX announcement dated 13 September 2022
- Drill Hole MF22 -117 refer to ASX announcement dated 13 September 2022
- Drill Hole MF22-121 refer to ASX announcement dated 24 October 2022
- Northern Prospects sample 159082 refer to ASX announcement dated 20 December 2022.
- Northern Prospects sample 157856 refer to ASX announcement dated 20 December 2022
- Northern Prospects sample 347562 refer to ASX announcement dated 20 December 2022
- First Concentrate Produced form Mavis Lake dated 23 January 2023
- High grade low impurity Spodumene concentrate produced 9 February 2023
- Drill Hole MF22-177 refer to ASX announcement dated 27 March 2023
- Drill Hole MF22-178 refer to ASX announcement dated 27 March 2023
- Drill Hole MF23-190 refer to ASX announcement dated 27 March 2023

- Excellent Results from Metallurgical Test Work dated 3 April 2023
- Drill Hole MF23-191 refer to ASX announcement dated 27 June 2023
- Drill Hole MF23-197 refer to ASX announcement dated 27 June 2023
- Drill Hole MF23-207 refer to ASX announcement dated 24 July 2023
- Drill Hole MF23-210 refer to ASX announcement dated 21 August 2023
- Drill Hole MF23-211 refer to ASX announcement dated 21 August 2023
- Drill Hole MF23-213 refer to ASX announcement dated 19 October 2023
- Drill Hole MF23-214 refer to ASX announcement dated 19 September 2023
- Drill Hole MF23-217 refer to ASX Announcement dated 19 October 2023
- Drill Hole MF23-222 refer to ASX announcement dated 19 October 2023
- Drill Hole MF23-225 refer to ASX announcement dated 19 October 2023
- Drill Hole MF23-228 refer to ASX announcement dated 15 November 2023
- Drill Hole MF23-229 refer to ASX announcement dated 15 November 2023
- District-Scale Potential at Mavis Lake Northern Prospects with Multiple Drill Targets date
   November 2023
- Drill Hole MF23-230 refer to ASX announcement dated 13 February 2024
- Drill Hole MF23-244 refer to ASX announcement dated 13 February 2024
- Outstanding Ore Sorting Testwork Results for Mavis Lake dated 2 May 2024

This document contains information relating to Exploration Results in respect of the Gullwing Tot (Northern Prospects) project extracted from ASX market announcements reported previously and published on the ASX platform on 20 December 2022, 29 December 2022, 17 July 2023, 18 March 2024 and 17 April 2024. 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 and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed.

All announcements are available for viewing at the Company's website www.criticalresources.com.au.

## Mineral Resource Estimate



#### **COMPLIANCE STATEMENT**

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The Mavis Lake MRE includes all applicable drilling results up to an including 29 March 2023.

MRE has been reported at a cut-off grade of 0.3% Li2O and open-pit mining scenario. Bulk Density of 2.8 has been used for mineralised pegmatite. Estimation has been completed using inverse distance weighting. Resource classification is according to the JORC Code Mineral Resource categories

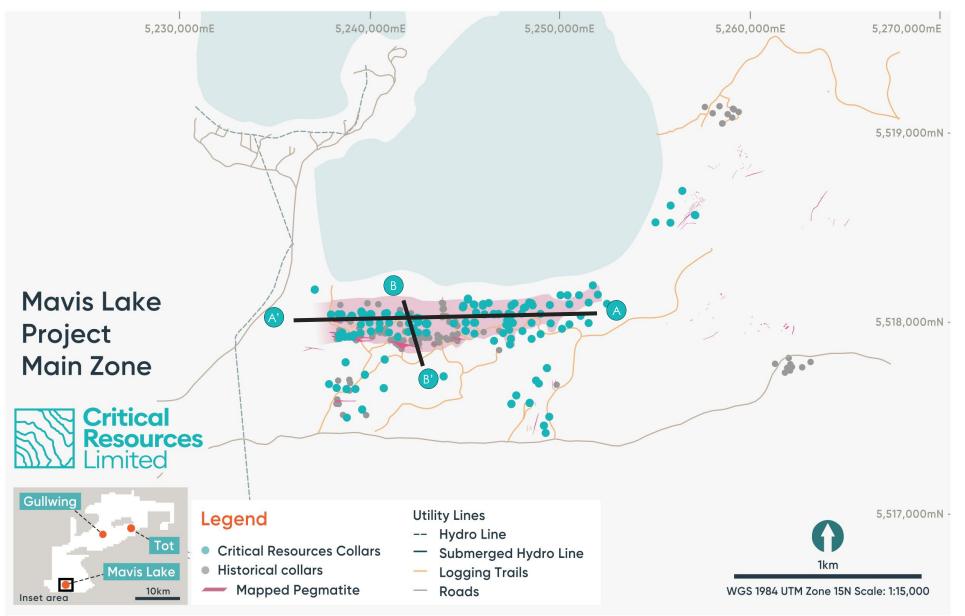
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JORC Classification	Li₂O Cut-Off grade (%)	Tonnage (Mt)	Li <sub>2</sub> O (%)
Inferred	0.3	8.0	1.07

# Main Zone Plan View and Section References

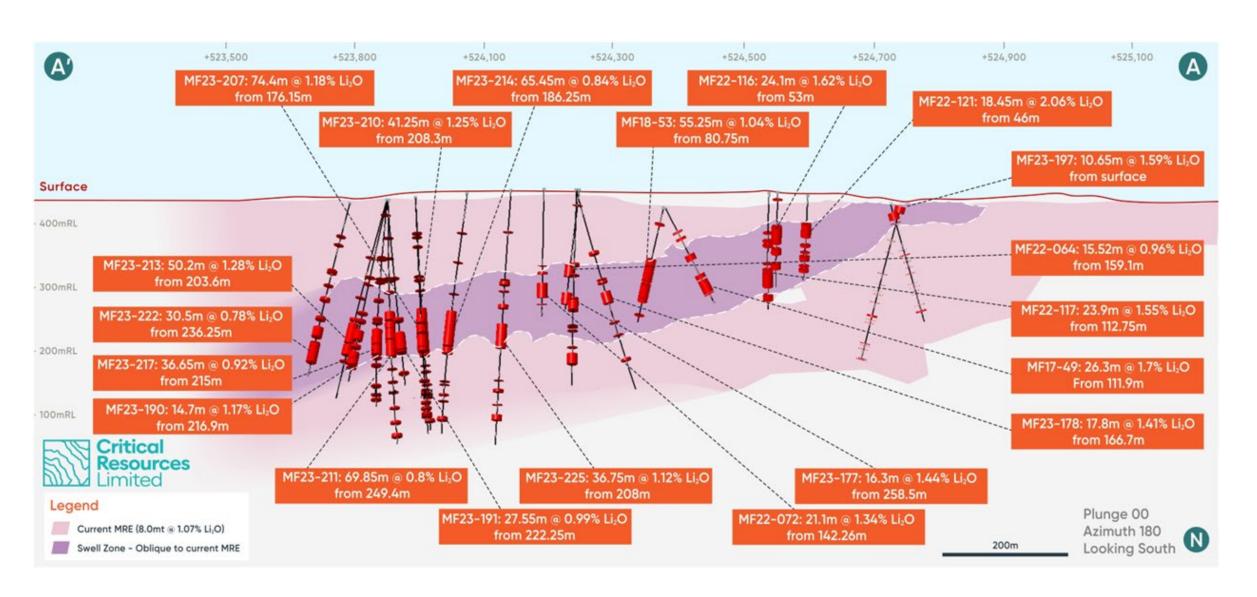


#### **Critical Resources** Limited



# **Main Zone Long Section**





# Ontario's Lithium Landscape



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