



JAMES BAY
MINERALS

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RIU Resurgence Conference

ASX Code: JBY

22nd & 23rd November 2023

Disclaimer



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*This Presentation may contain certain forward-looking statements, guidance, forecasts, estimates or projections in relation to future matters (**Forward Statements**) that involve risks and uncertainties, and which are provided as a general guide only. Forward Statements can generally be identified by the use of forward looking words such as “anticipate”, “estimate”, “will”, “should”, “could”, “may”, “expects”, “plans”, “forecast”, “target” or similar expressions and include, but are not limited to, indications of, or guidance or outlook on, future earnings or financial position or performance of the Company. The Company can give no assurance that these expectations will prove to be correct. You are cautioned not to place undue reliance on any forward-looking statements. None of the Company, its directors, employees, agents or advisers represent or warrant that such Forward Statements will be achieved or prove to be correct or gives any warranty, express or implied, as to the accuracy, completeness, likelihood of achievement or reasonableness of any Forward Statement contained in this presentation. Actual results may differ materially from those anticipated in these forward-looking statements due to many important factors, risks and uncertainties. The Company does not undertake any obligation to release publicly any revisions to any “forward- looking statement” to reflect events or circumstances after the date of this Presentation, except as may be required under applicable laws.*

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Competent Person Statement

*The information in this Presentation that relates to Exploration Results at the La Grande and Troilus Projects is extracted from the Company’s Prospectus dated 19 July 2023 (**Prospectus**) and the following ASX announcements (**Original Announcements**):*

- 1. Extensive field of fractionated pegmatite dykes discovered over 3km in length at the Aero Property – James Bay, Canada, dated 5 October 2023;*
- 2. Multiple large outcropping pegmatite dykes identified at Aqua Property - James Bay, Canada, dated 8 October 2023;*
- 3. Spodumene discovered at Aero Property – James Bay, Canada, dated 31 October 2023;*
- 4. Second field of fractionated pegmatite dykes discovered at the Aero Property – James Bay, Canada, dated 2 November 2023;*
- 5. James Bay strategically increases its La Grande Project area by 70% to 30,168 hectares (302km²) – James Bay, Canada, dated 8 November 2023*
- 6. Elevated lithium readings from LIBS at the Aero Property – James Bay, Canada, dated 15 November 2023*

The Company confirms that it is not aware of any new information or data that materially affects the information contained in the Prospectus and Original Announcements.

Company Snapshot



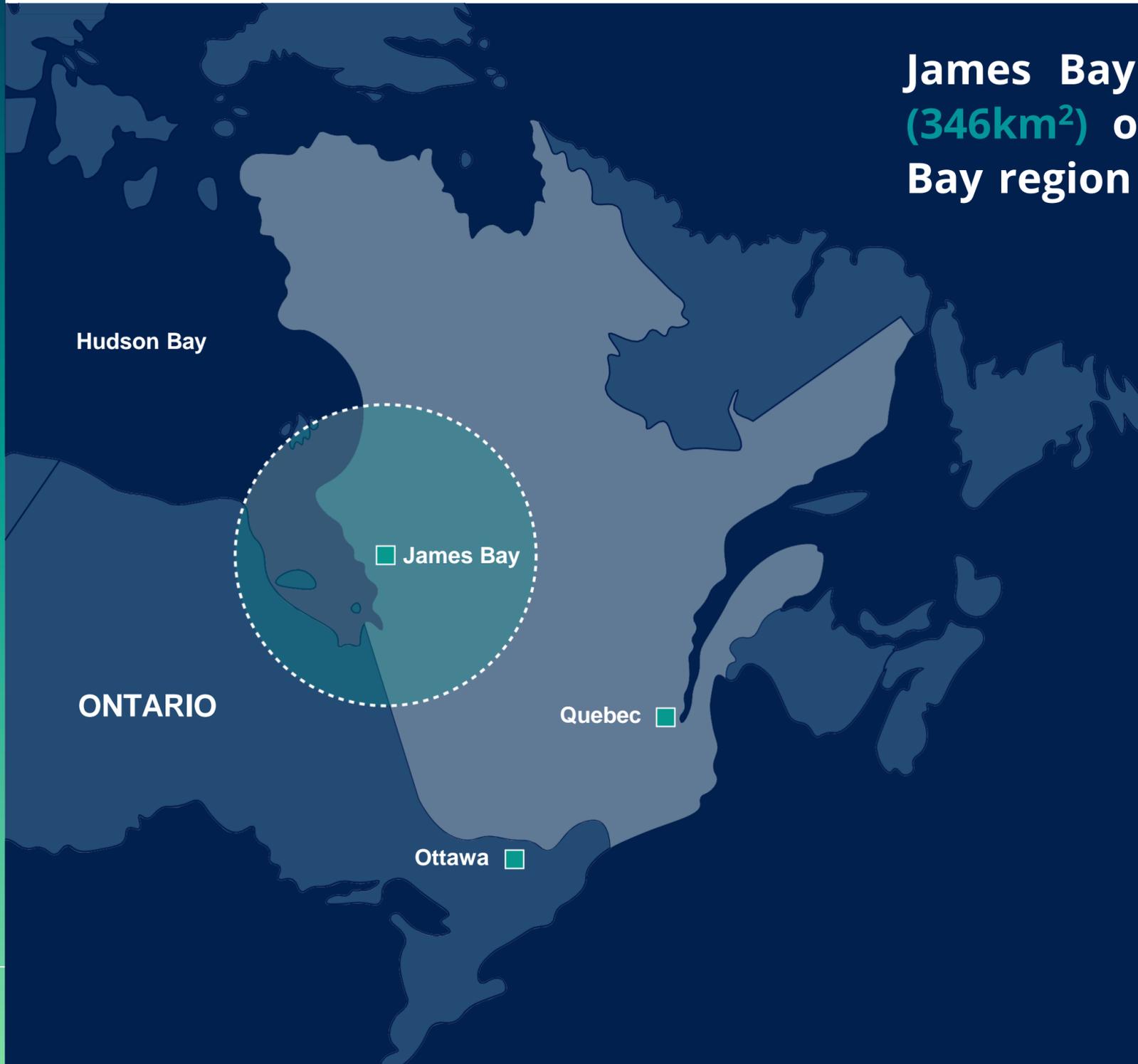
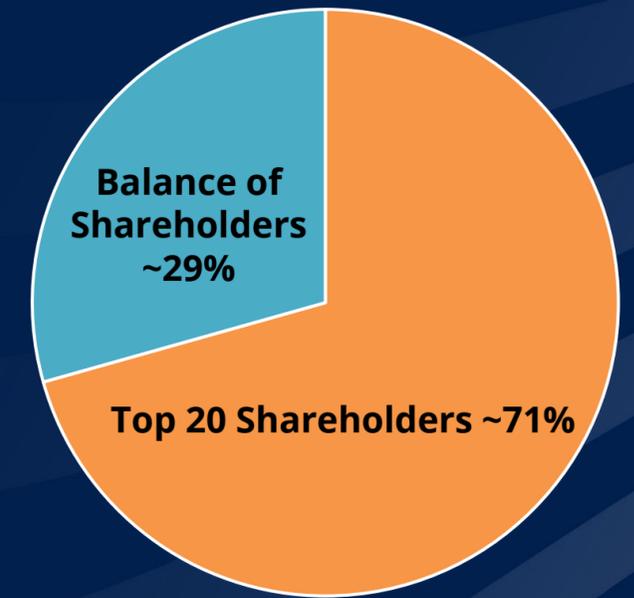
James Bay Minerals owns 100% interest in **34,572 Ha (346km²)** of prospective lithium projects within the James Bay region of Quebec.

Corporate Summary

Shares on Issue
60,500,000

Share price (Close Price 21/11/23)
\$0.41

Market Capitalisation
\$24,805,000



Company Highlights



Spodumene discovered¹



Canadian focused, lithium Explorer



One of the largest landholdings on the La Grande Lithium Trend ~55km



James Bay rivals the Pilbara

1. ASX Announcement "Spodumene discovered at Aero Property", dated 31 October 2023.

Board of Directors



Andrew Dornan
Executive Director

18 years senior commercial management experience within various major and mid-tier international mining organisations including Pilbara Minerals, Tianqi Lithium, Fortescue Metals Group, Newmont and Rio Tinto.



Gerard O'Donovan
Non-Executive Chair

Previously Managing Director of Battery Age Minerals. Served as the project manager for Pilbara Minerals, overseeing the development of the Stage 1 Pilgangoora mine & concentrator development. Integration manager for PLS of Altura Operations after acquisition.



Judy Baker
Non-Executive Director

8-year Director of Nemaska Lithium Quebec, which developed the largest Spodumene deposit in North America. Founder of Lithium Canada Corporation. Geologist, Engineer, MBA with strong Capital markets experience.



Dean Ercegovic
Non-Executive Director

Founding Director and Chief Operating Officer of Primero Group where he spent over 11 years. Primero now operates in multiple regions globally (including Quebec) and is an industry leader in the design, construction and operations of Lithium processing facilities.

Senior Management



Mark Fekete
Senior Geology Consultant

30-year experienced geologist based in Quebec, fluent in French. Strong existing relationships with local exploration community and first nations suppliers.



Marty Huber
Senior Geology Consultant

20-year experienced geologist based in Quebec, with key experience across Lithium, base & precious metals projects.



Daniel Loughnan
Chief Financial Officer

20 years experienced Accountant (CPA). Director of Danpalo Group an accounting consultant to a number various listed ASX Companies.



James Doyle
Company Secretary

Experienced company secretary and corporate advisor with over 15 years' experience advising public and private companies across a range of sectors.



Matthew Hayes
Corporate Development

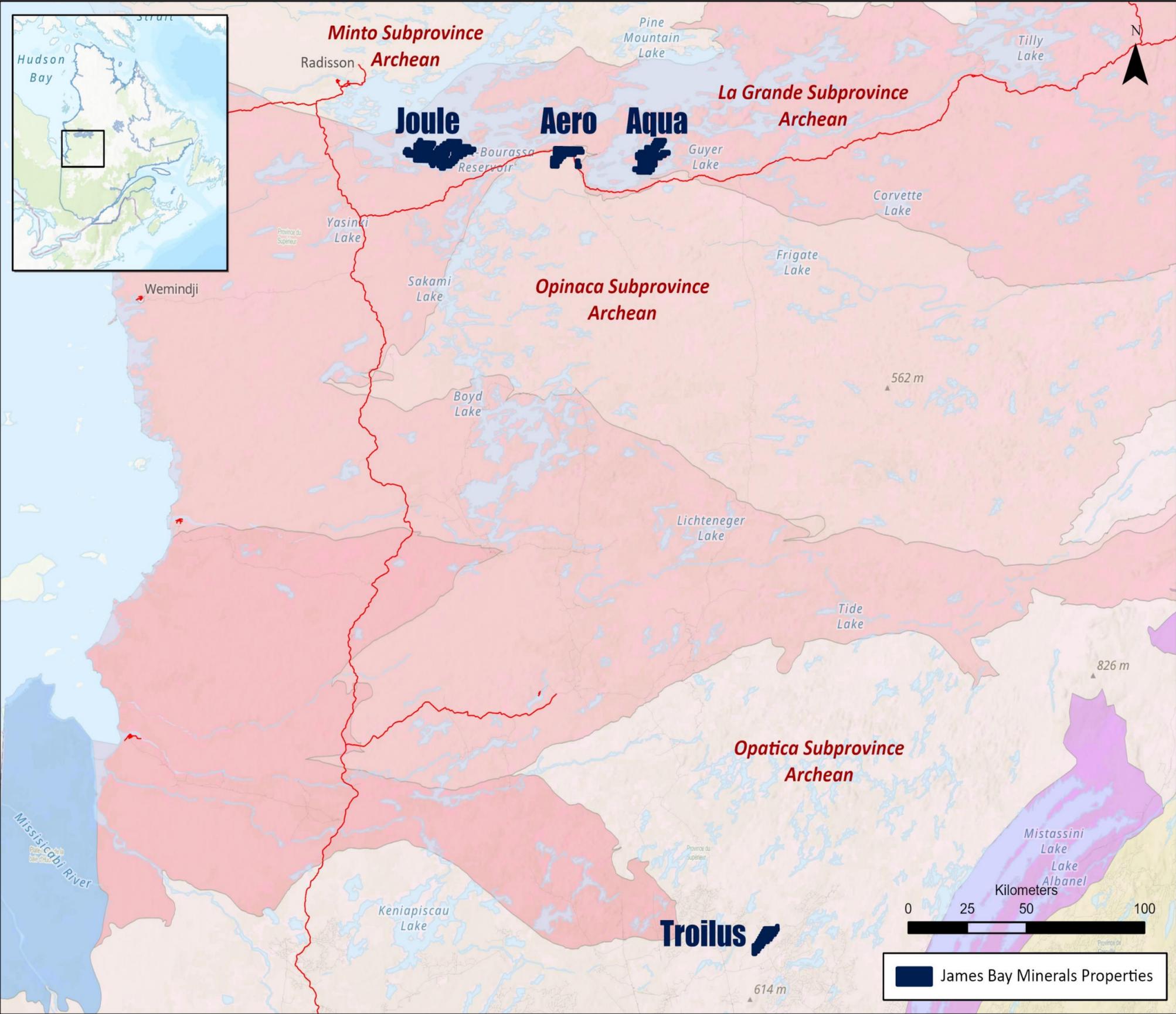
Founding CEO of Raisebook, Stocks Digitals capital raising arm and founding director of Wagtail Capital.

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Our Properties

3 Key Ingredients for LCT Pegmatites

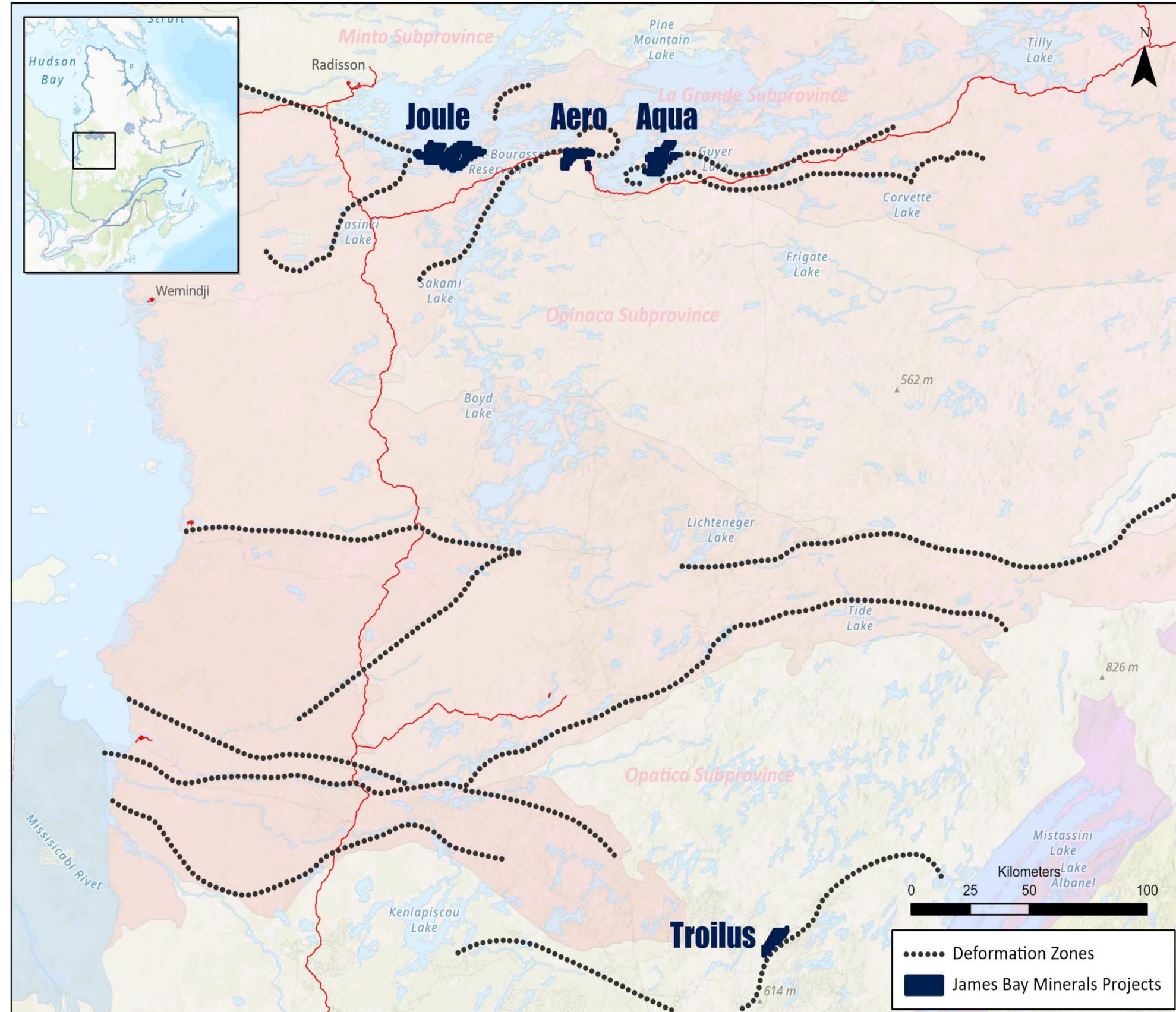
- All the properties sit within Neo-Archean rocks



Deformation Zones

3 Key Ingredients for LCT Pegmatites

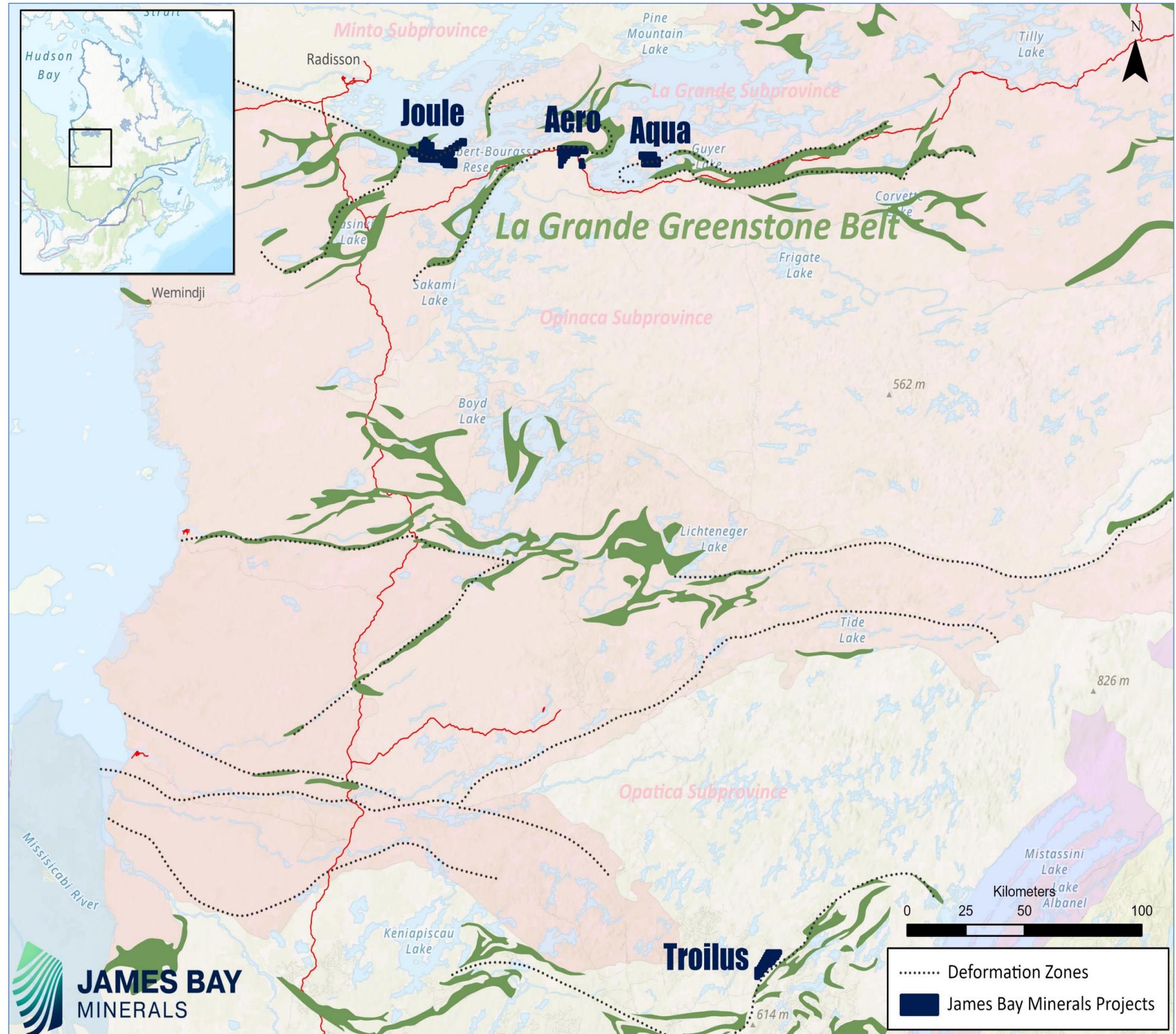
- Neo-Archean rocks
- Major regional faults
with wide deformation
zones up to 1km across



Greenstones Belts

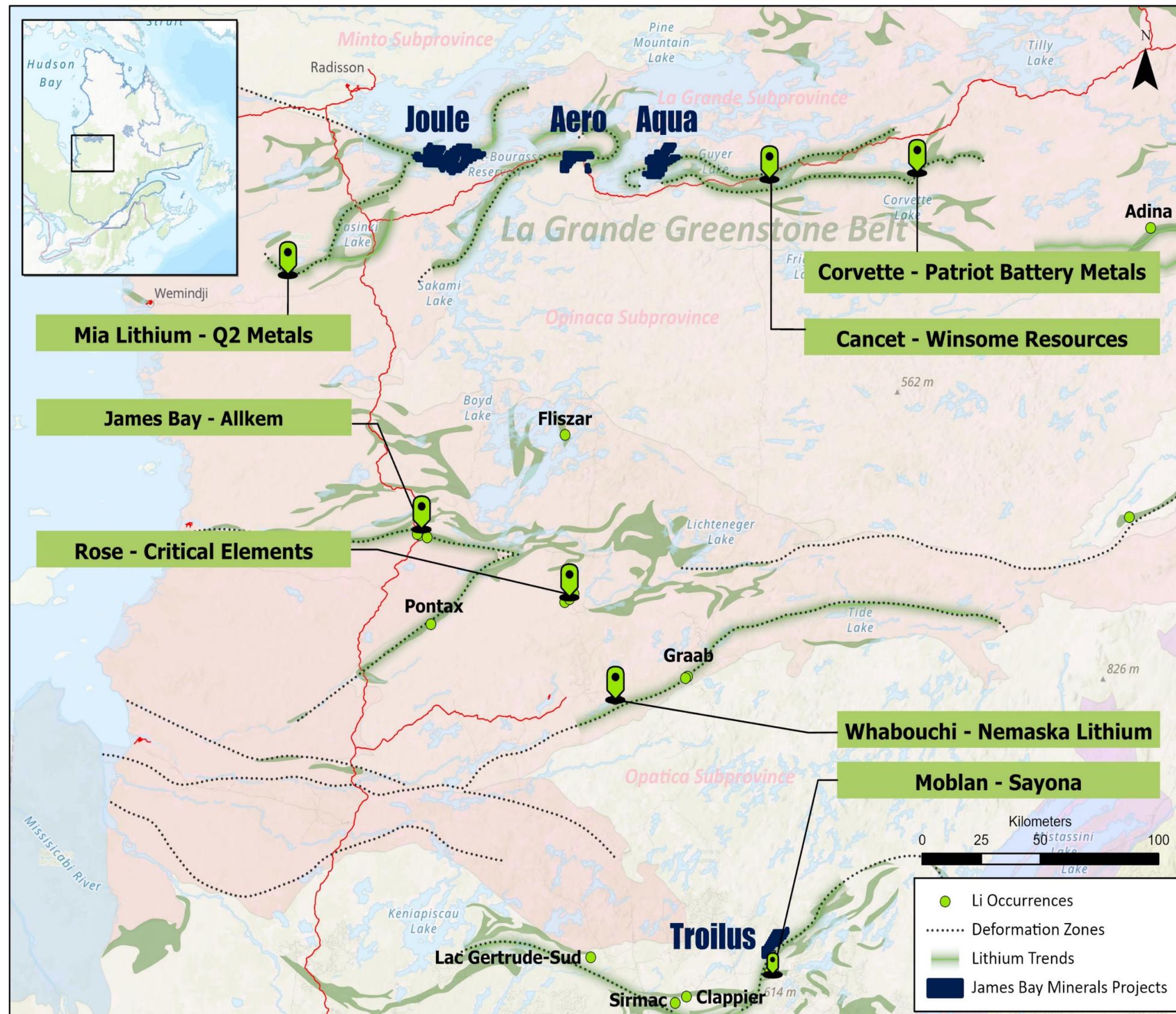
3 Key Ingredients for LCT Pegmatites

- Neo-Archean rocks
- Major regional faults with widths up to 1km plus wide
- Greenstone belts in proximity to S-type granites



Location of Major Deposits

Northern properties sit on La Grande Greenstone belt, James Bay region, Quebec. Hosts the largest lithium discoveries of the past few years.

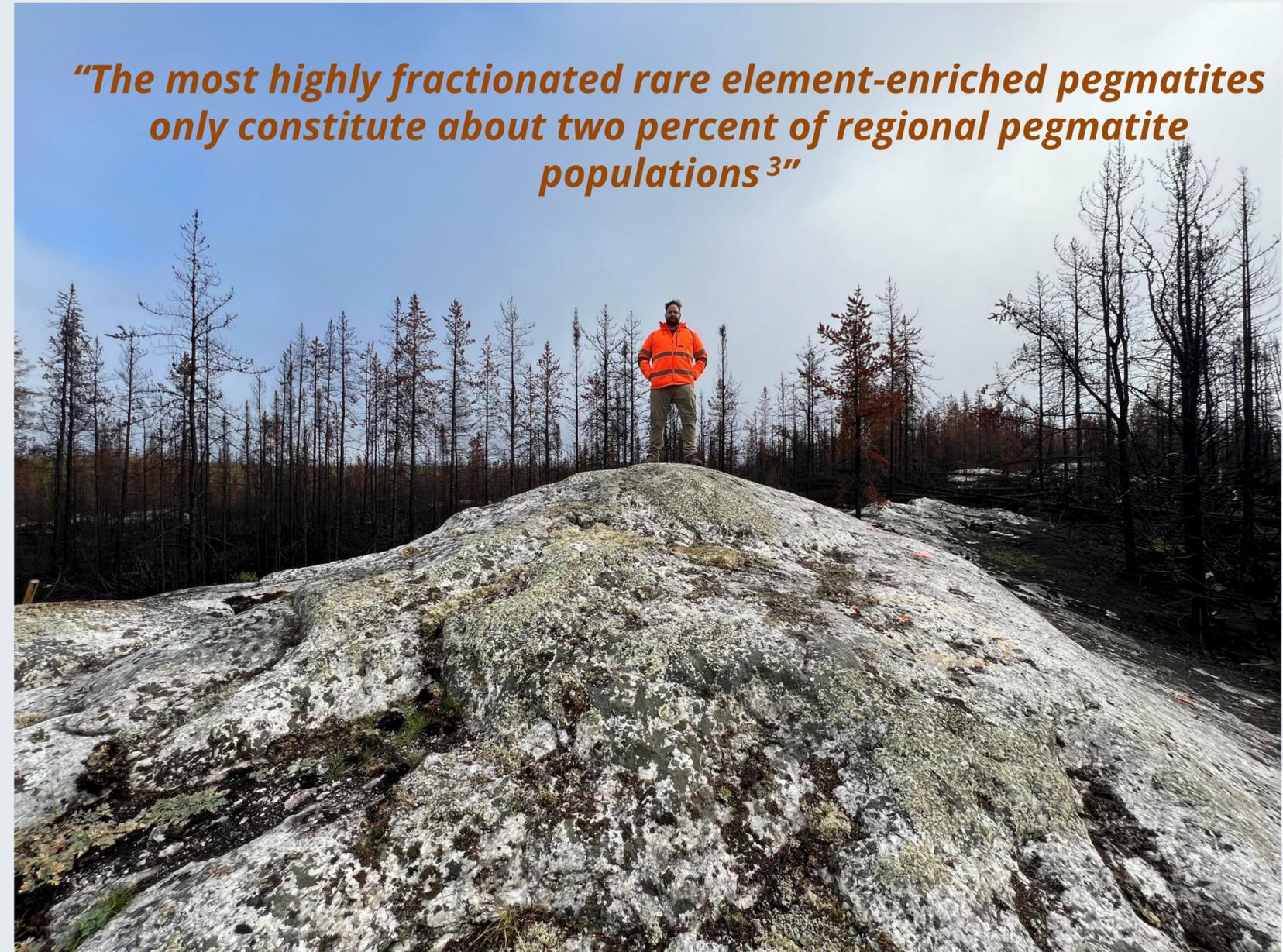


Two fields of Fractionated Pegmatites - Aero Property^{1 2}



- **Thirty-One fractionated pegmatites.**
- **Pegmatites up to ~590m long and ~30m wide.**
- **Field One corridor ~3km east to west and ~350 north to south.**
- **Field Two corridor ~1.5km east to west and ~500m north to south.**

"The most highly fractionated rare element-enriched pegmatites only constitute about two percent of regional pegmatite populations³"



Executive Director Andrew Dornan standing on the Hawker Pegmatite.

1. ASX Announcement "Extensive field of fractionated pegmatite dykes discovered over 3km in length at the Aero Property – James Bay, Canada", dated 5 October 2023
2. ASX Announcement "Second field of fractionated pegmatite dykes discovered at the Aero Property, James Bay, Canada" dated 2 November 2023
3. USGS Science for changing a world, Mineral-Deposit Model for Lithium-Caesium-Tantalum Pegmatites Scientific Investigations Report 2010-5070-0

Spodumene Discovered – Aero Property



Spodumene crystals observed within Warhawk outcrop¹



Figure 1 - Raw outcrop with green mineral interpreted to be spodumene.²



Figure 2 - Interpreted weathered green minerals interpreted as spodumene under hand lens.²



Figure 3 - Fresh rock channel sample from Warhawk with lithium mineralisation indicated by LIBS.²

Cautionary Statement: Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations.

1. ASX Announcement “Spodumene discovered at Aero Property”, dated 31 October 2023
2. Refer to Appendix 1 – Visual estimates appended to end of presentation.

~2.5km of elevated lithium LIBS readings¹

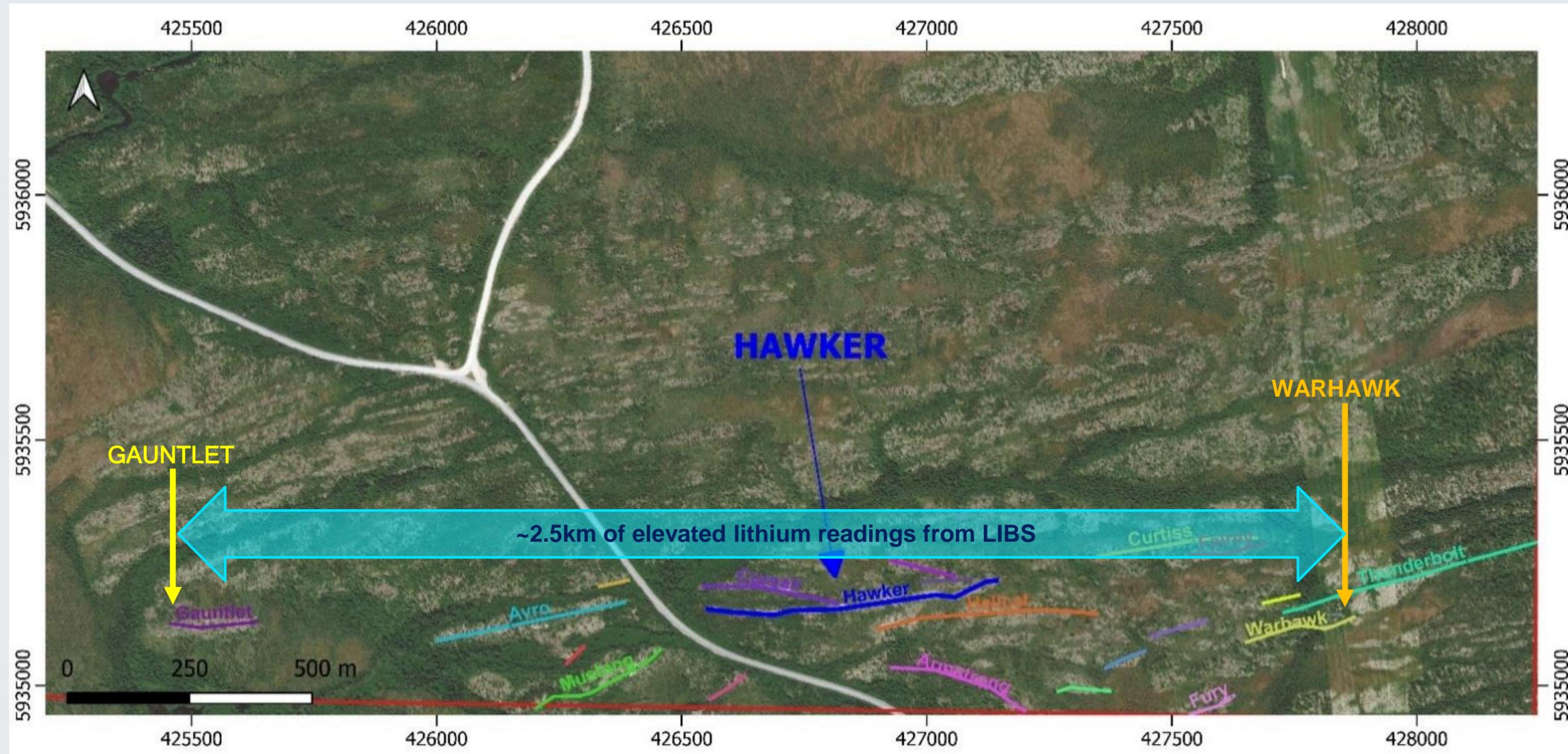


Figure 1 - Aero Pegmatite field overlaid with 2.5km corridor of elevated lithium readings obtained from LIBS machine.

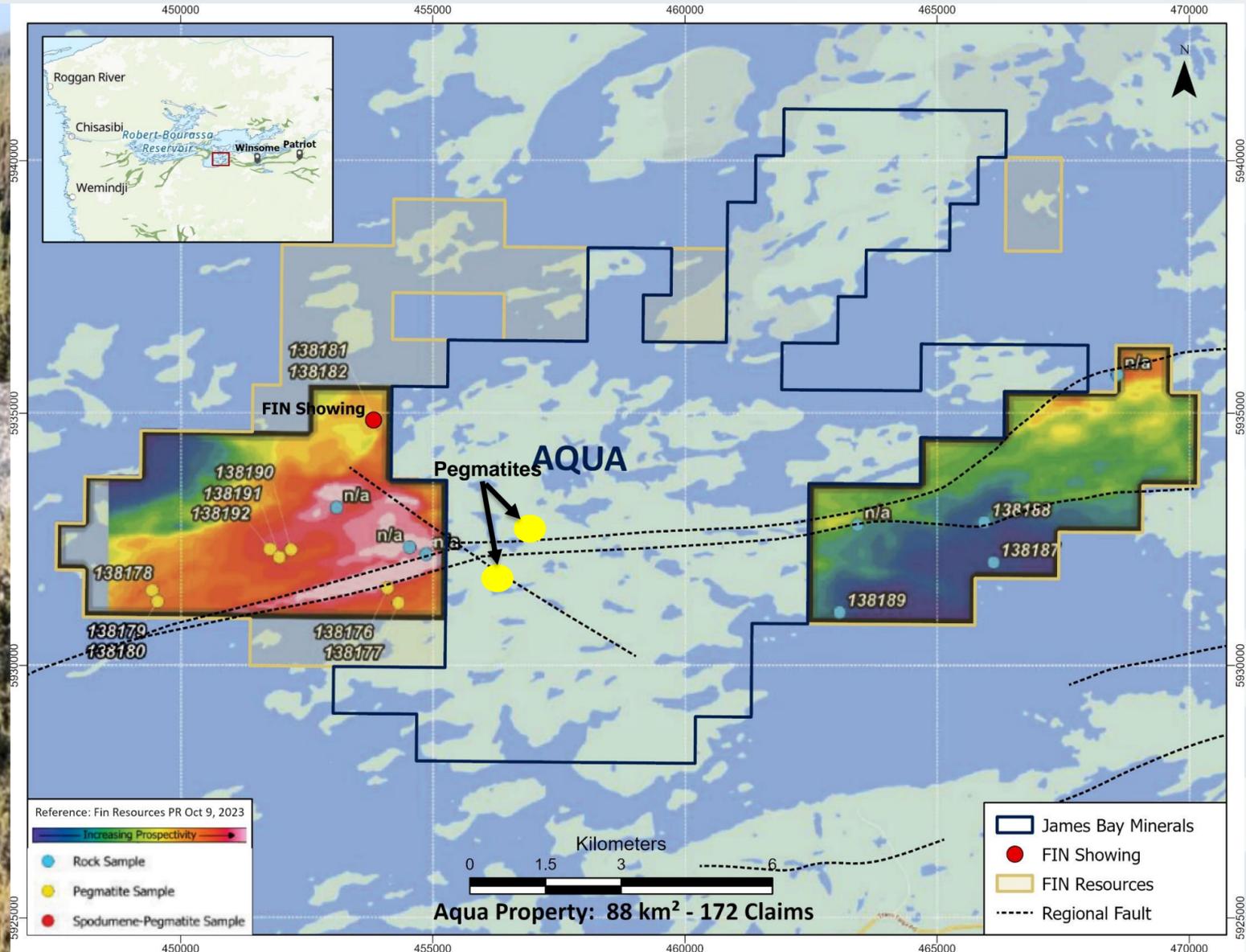
1. ASX Announcement "Elevated lithium readings from LIBS at Aero Property", dated 15 November 2023

La Grande Project - Aqua Property



Abundant Spodumene crystals discovered at border¹

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Pegmatite dykes running west to east (left to right of picture) (Second running parallel behind) photographed from helicopter on Aqua Property.¹

ASX listed FIN Resources heat map showing spodumene discovery (Red Circle on left heat map) with JBY's Aero property added to the map for geographical context²

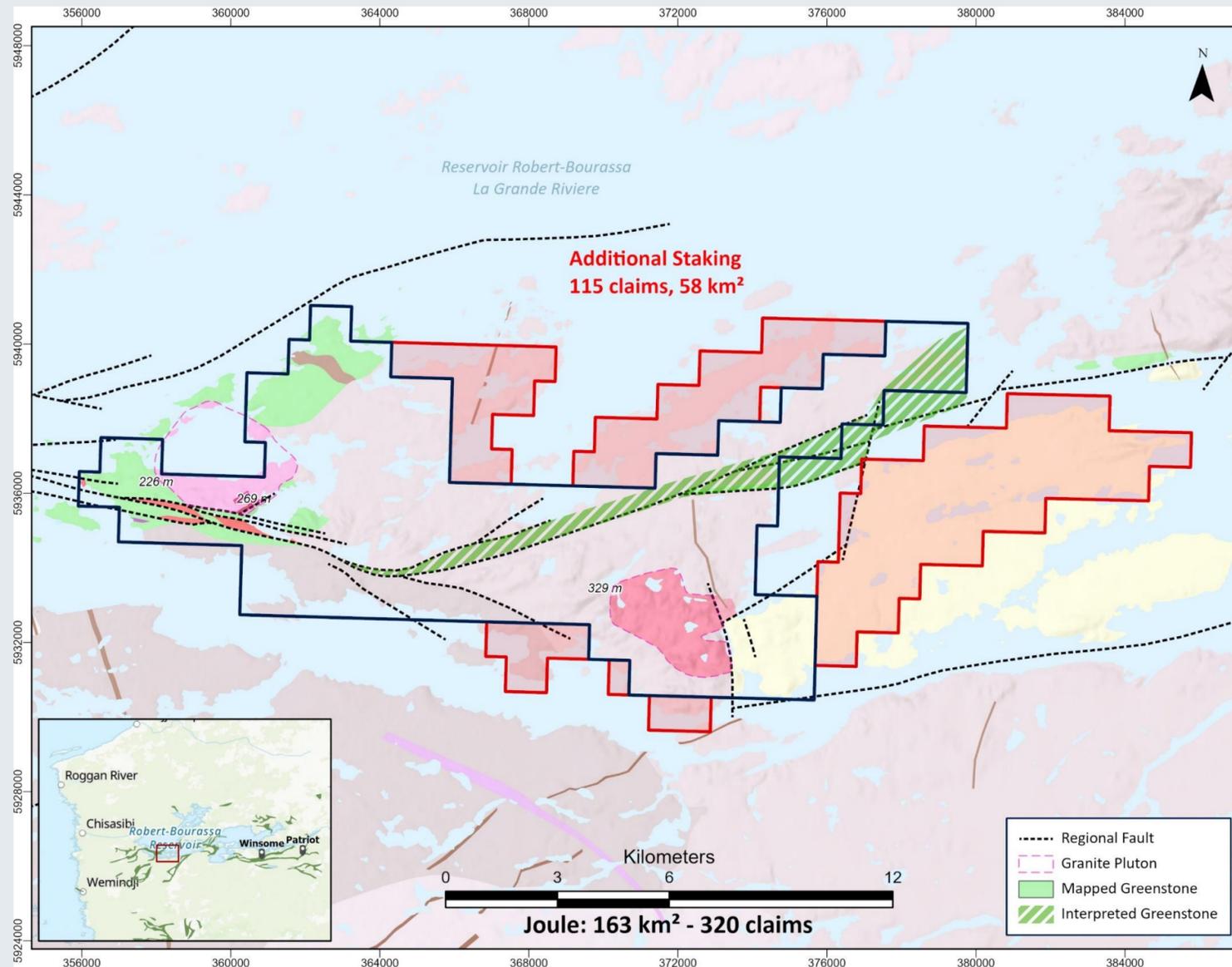
1. FIN Resources Limited ASX Announcement "Large Spodumene Crystals Discovered in Pegmatite Outcrop", dated 9 October 2023.
 2. ASX Announcement "Multiple large outcropping pegmatite dykes identified at Aqua Property - James Bay, Canada, dated 8 October 2023. ", dated 5 October 2023

Expansion of La Grande Project

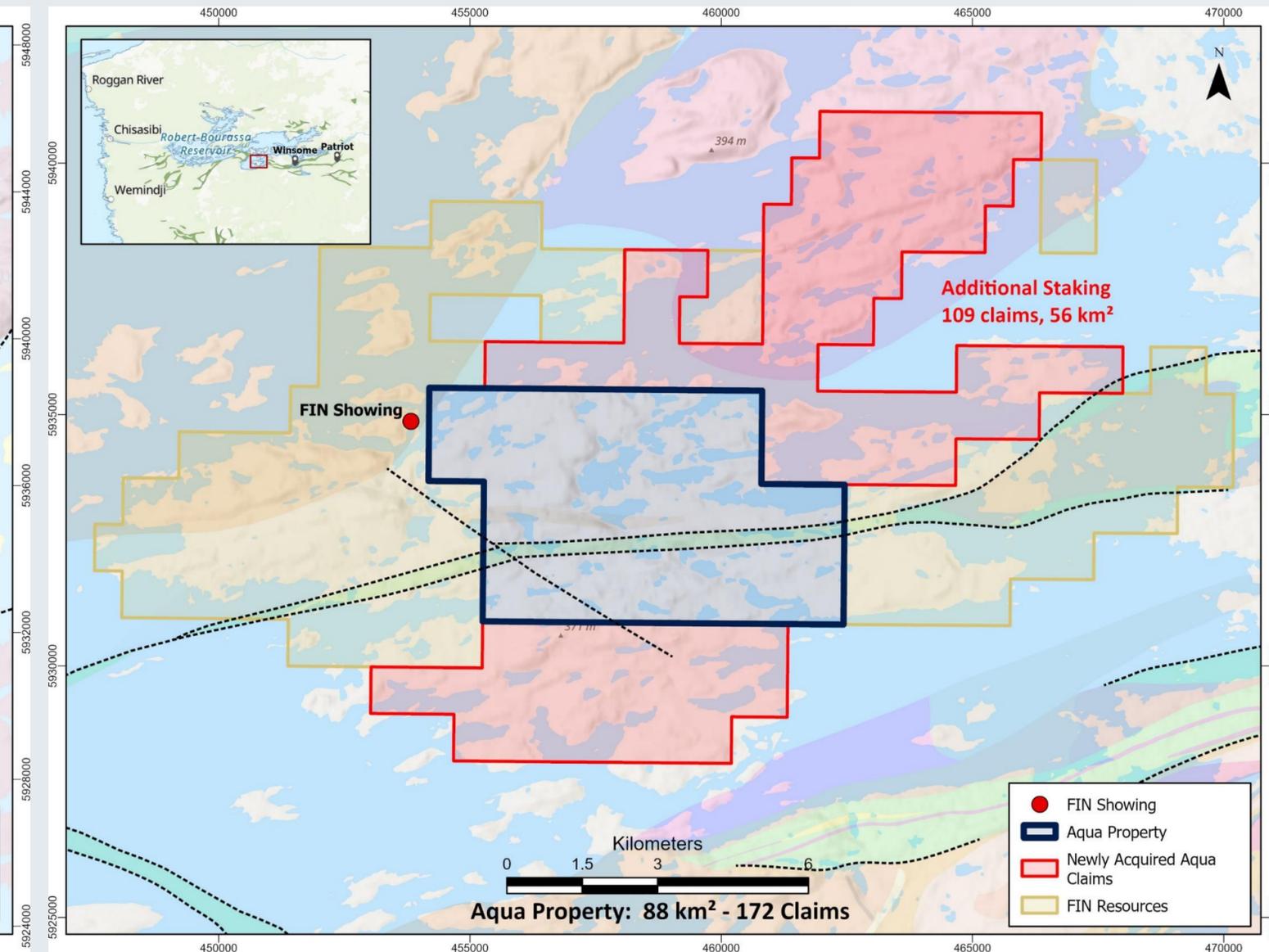


70% Increase in Project Area to 30,168 hectares (302km²)

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James Bay Minerals Joule Property existing (blue) and additional claims (red)



James Bay Minerals Aqua Property existing (blue) and additional claims (red)

Maiden Field Program - Completed Activities



- Initial engagement with Cree Nation of Wemindji
- LIDAR and high-resolution photography
- Field mapping and prospecting across Aero
- High-resolution heliborne magnetic & spectrometric survey flown



Upcoming Activities



- **Desk top studies analysing data generated from 2023 field program and aerial surveys to inform targeted works moving forward**
- **Submission of drill permit for Aero Property**
- **Accelerated drill program at Aero Property, forecast to commence H1 2024**
- **Commence field prospecting programs across Joule and Aqua properties H1 2024**

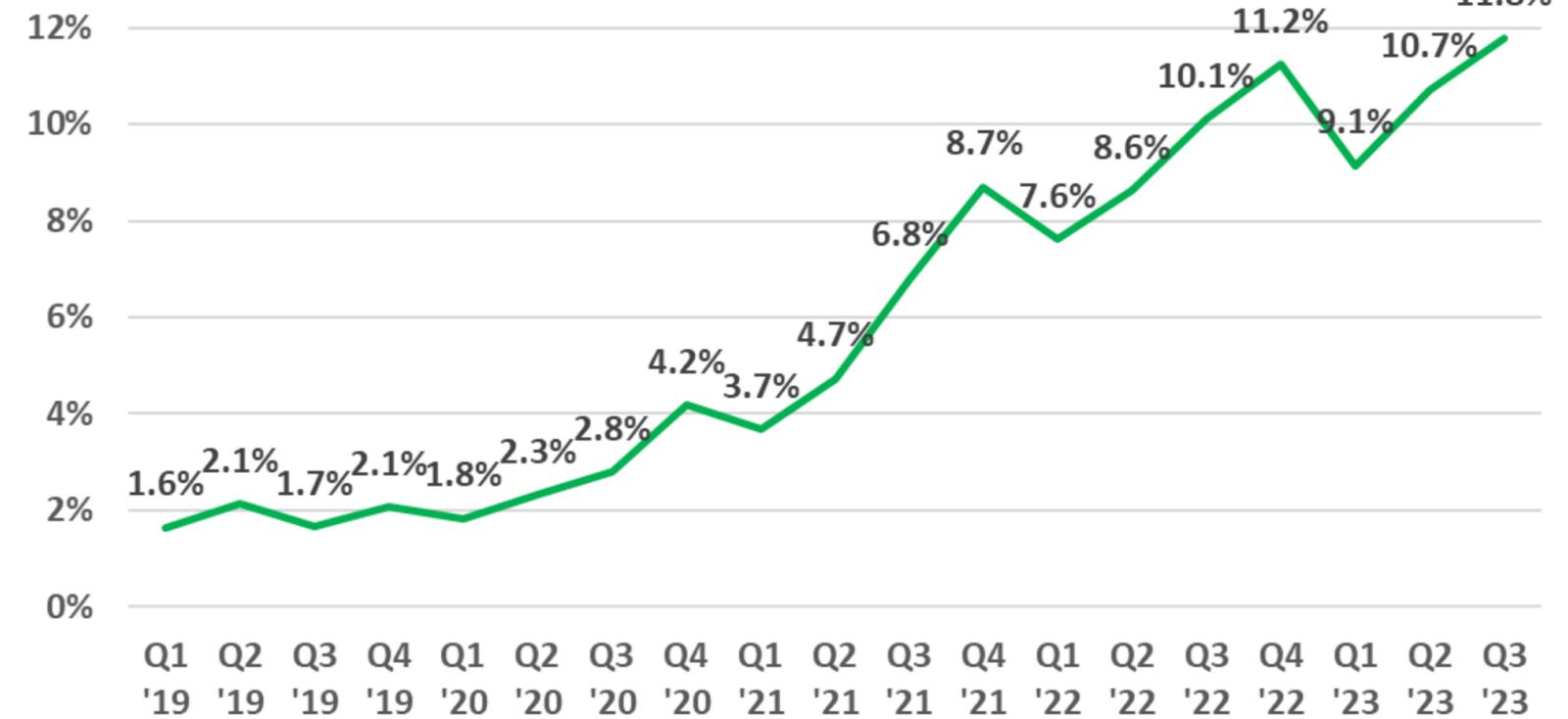
Lithium Pricing

Ambitions vs Reality



Studies vs Execution

Global BEV Adoption (BEV % of Global Light Vehicles)



Source: EV-volumes.com

Light Vehicles include: Passenger Car, Light Truck, LCV

EV VOLUMES

Market Activity

- Hot M & A market
- Failed takeover bids
- Cashed up international lithium organisations
- Nationalisation of lithium in Chile
- Large African lithium assets tied up in dispute



James Bay / Canada – “The place to be!”



Only Tier 1 Jurisdiction with:

- Massive LCT deposits
- Exploration tax rebates (Up to 40%)
- Flow through funding
- No sovereign risks
- Government grants
- Unexplored with huge potential



JAMES BAY
MINERALS

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