



JAMES BAY
MINERALS

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South-West Connect – Investor Presentation

ASX Code: JBY

18 October 2023



Canadian focused, lithium Explorer

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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; and*
- 2. Multiple large outcropping pegmatite dykes identified at Aqua Property - James Bay, Canada, dated 12 October 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 **22,438 Ha (224km²)** of prospective lithium projects within the James Bay region of Quebec.

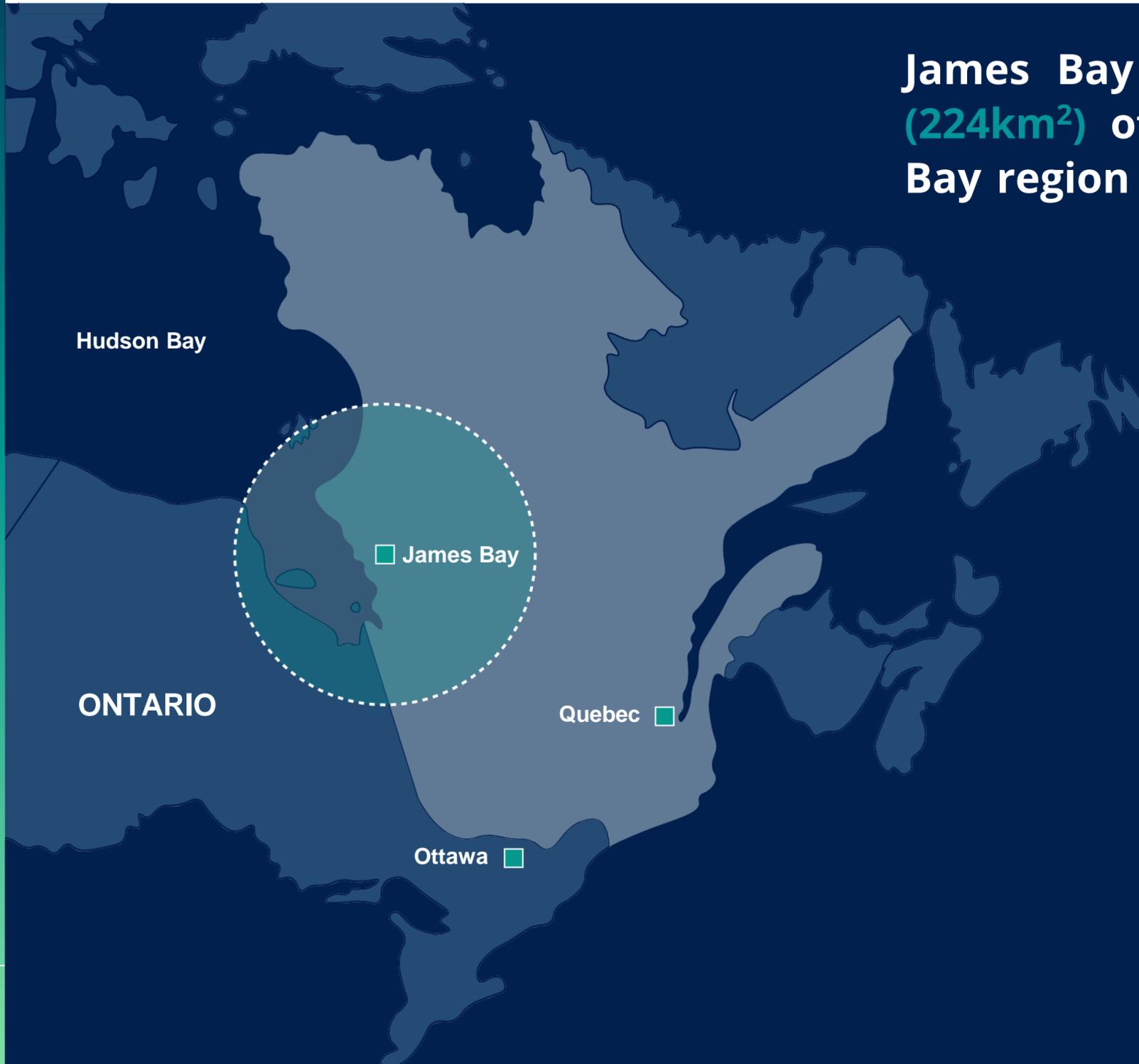
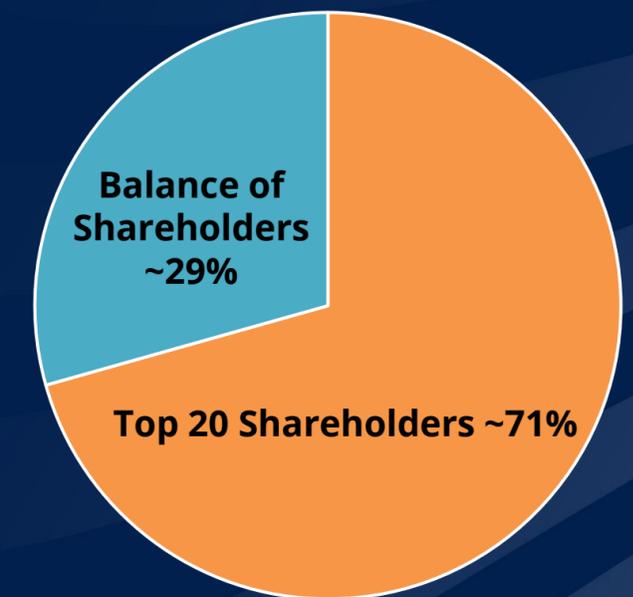
Corporate Summary

Shares on Issue
60,500,000

Share price (Close Price 17/10/23)
\$0.35

Market Capitalisation
\$21,175,000

IPO Cash Raised
\$6,000,000



Company Highlights



Field of fractionated pegmatites discovered¹



Canadian focused, lithium Explorer



Board & management with extensive lithium experience



Properties all have three key ingredients for giant LCT pegmatites

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

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

Managing Director of Battery Age Minerals, based in Ontario, Canada. 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.

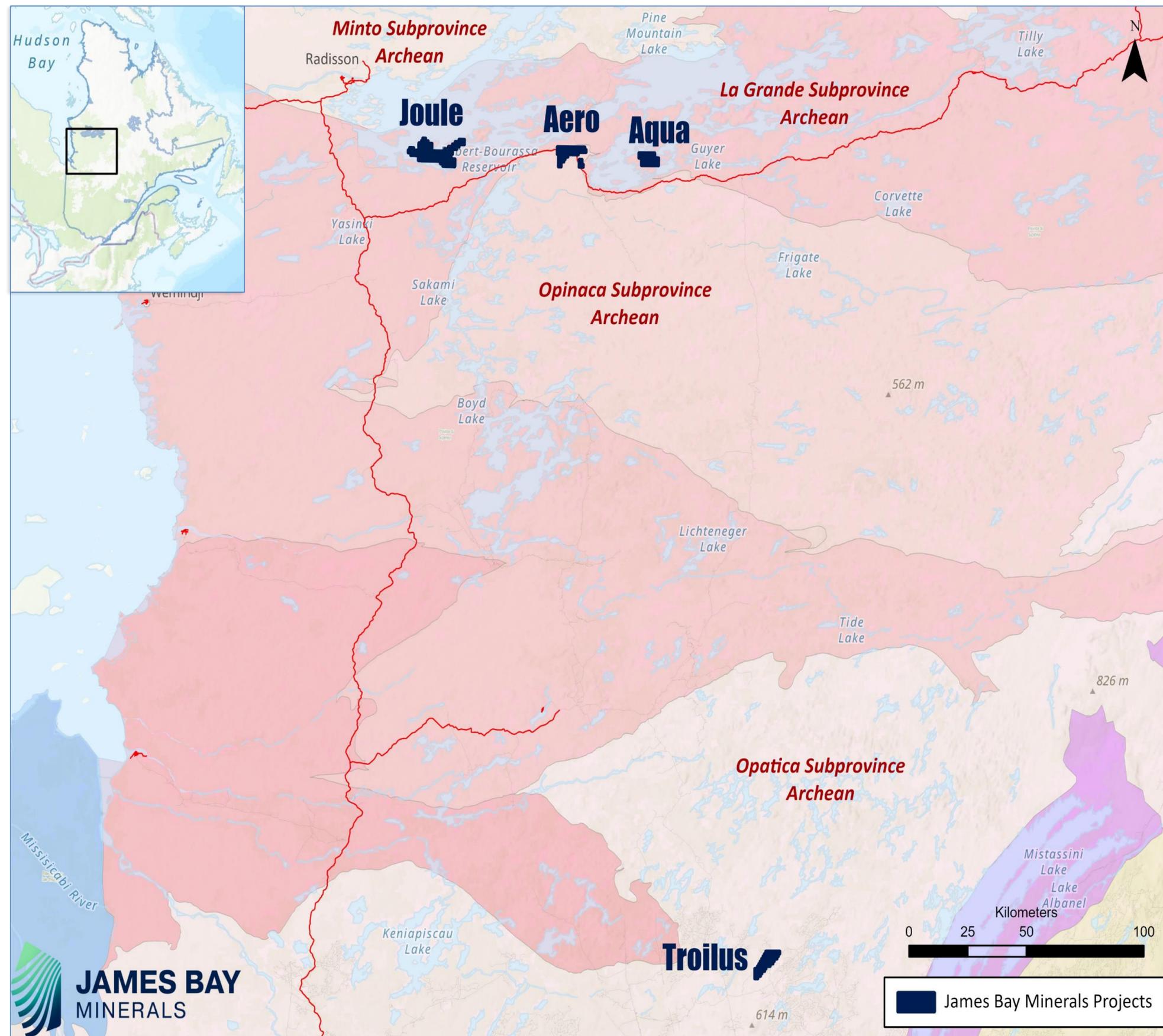
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Our properties; Joule, Aero, Aqua & Troilus

3 Key Ingredients for LCT Pegmatites

- All the properties sit within Neo-Archean rocks¹

1. James Bay Minerals Limited Prospectus, dated 19 July 2023

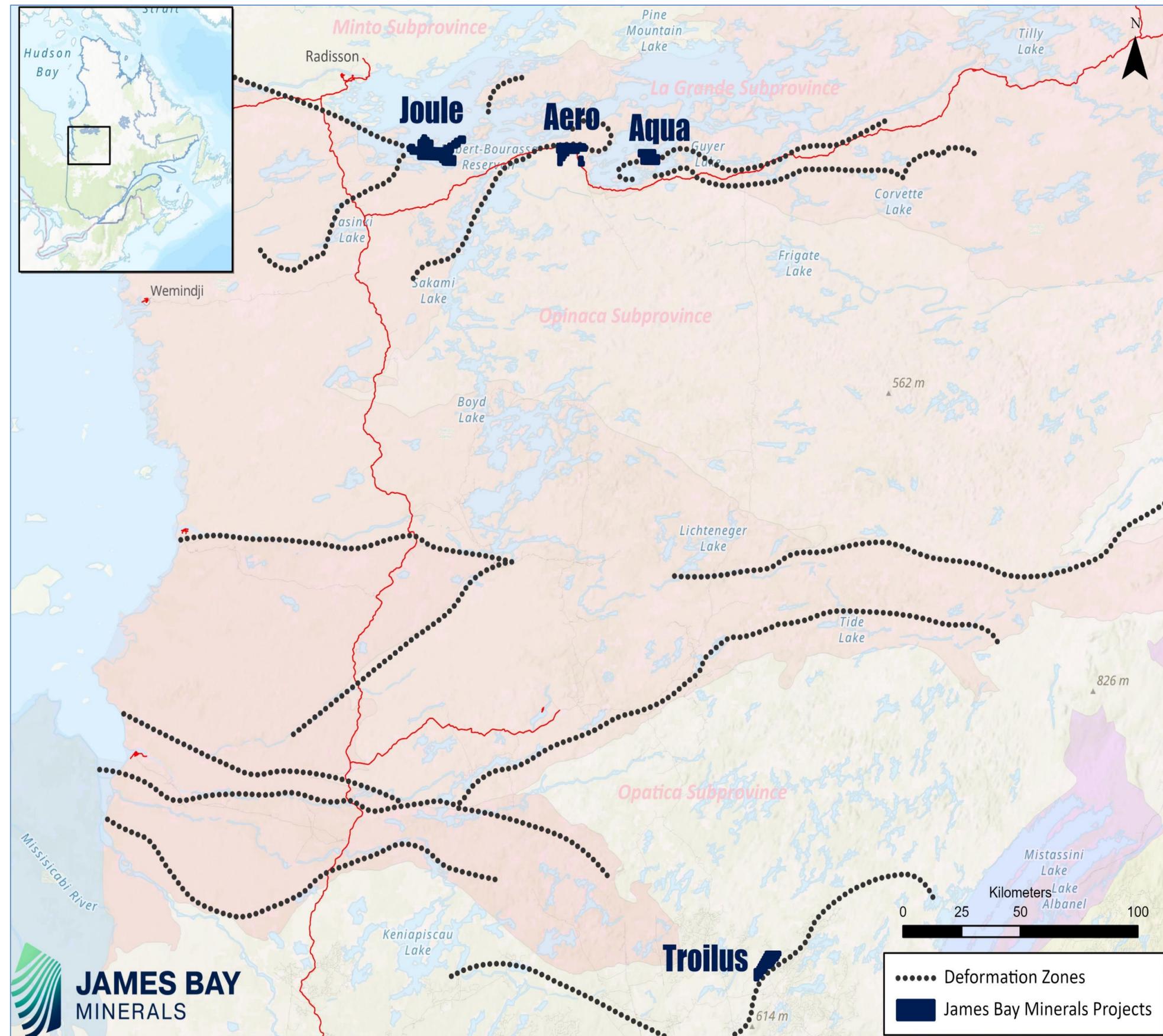


Regional Deformation Zones

3 Key Ingredients for LCT Pegmatites

- Neo-Archean rocks
- Major regional faults with wide deformation zones up to 1km across¹

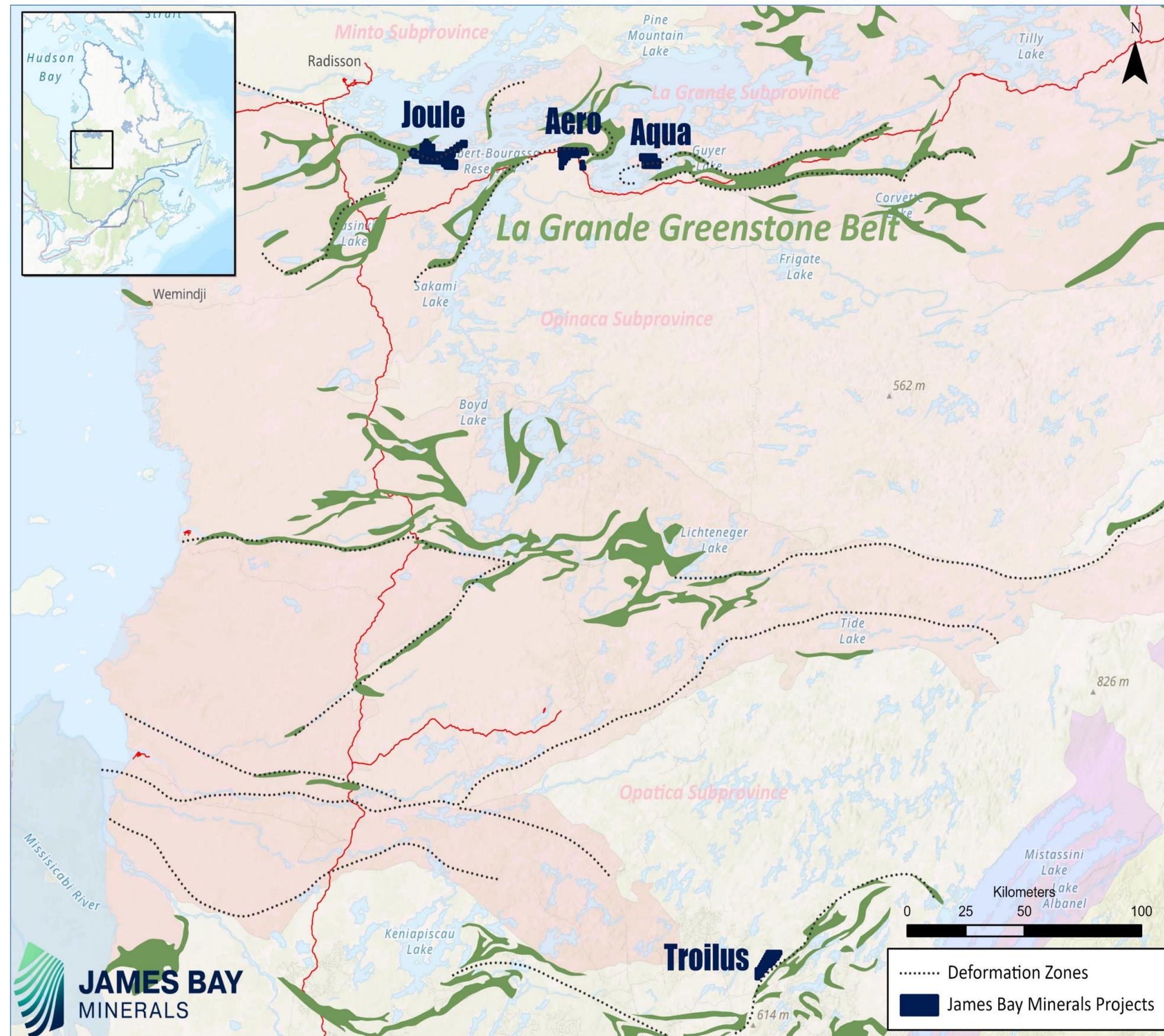
1. James Bay Minerals Limited Prospectus, dated 19 July 2023



Regional Greenstones belts

3 Key Ingredients for LCT Pegmatites

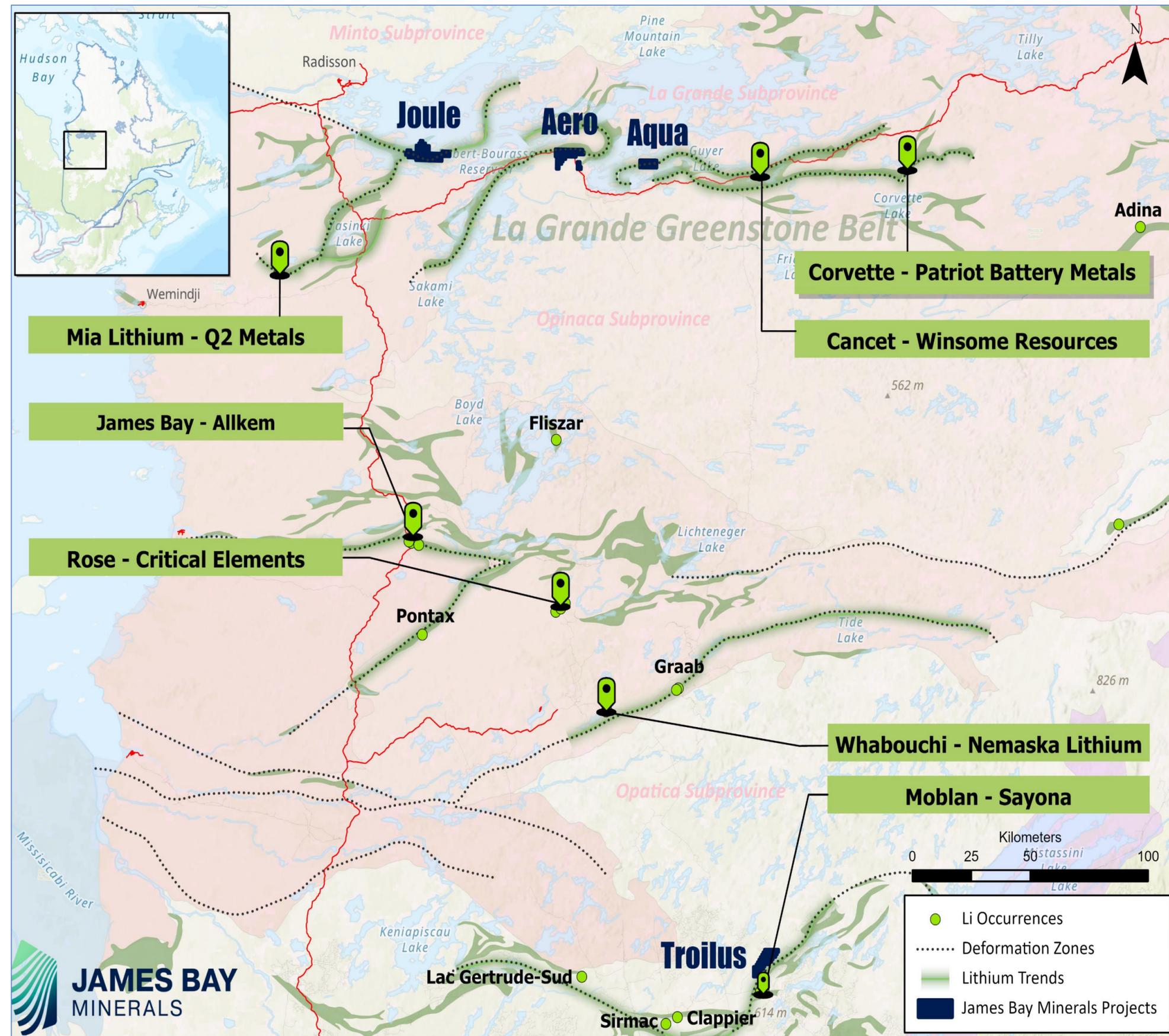
- Neo-Archean rocks
- Major regional faults with widths up to 1km plus wide
- Greenstone belts in proximity to S-type granites¹



1. James Bay Minerals Limited Prospectus, dated 19 July 2023

Location of Major Deposits

The Northern properties sit along the La Grande Greenstone belt of the James Bay region in Quebec, which hosts some of the **largest lithium discoveries of the past few years.**



La Grande Project - Aero Property

Field of fractionated pegmatite dykes discovered - ~3km long and ~350m wide¹



Hawker pegmatite dykes running in located on JBY's the Aqua Property.

Number	Pegmatite Name	Approximate pegmatite Length (m)	Approximate Max width exposed (m)
1	Armstrong	292	10
2	Avro	400	20
3	Brewster	133	10
4	Bristol	102	5
5	Corsair	276	10
6	Curtiss	324	5
7	Fairey	152	5
8	Fury	97	10
9	Gauntlet	175	10
10	Havoc	59	5
11	Hawker	560	20
12	Hellcat	450	31
13	Lightning	60	10
14	Marauder	60	6
15	Meteor	50	10
16	Mustang	286	22
17	Spitfire	86	15
18	Thunderbolt	591	10
19	Warhawk	180	10
20	Wildcat	87	5
21	Gloster	72	5

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

La Grande Project - Aqua Property

Multiple massive outcropping pegmatite dykes identified¹



Pegmatite dykes running west to east (left to right of picture) (Second running in parallel behind) photographed from helicopter on James Bay Minerals' Aqua Property.



Multiple pegmatite dykes running in parallel in the western central portion of the Aqua Property.

1. ASX Announcement "Multiple large outcropping pegmatite dykes identified at Aqua Property - James Bay, Canada", dated 12 October 2023.

La Grande Project - Aqua Property

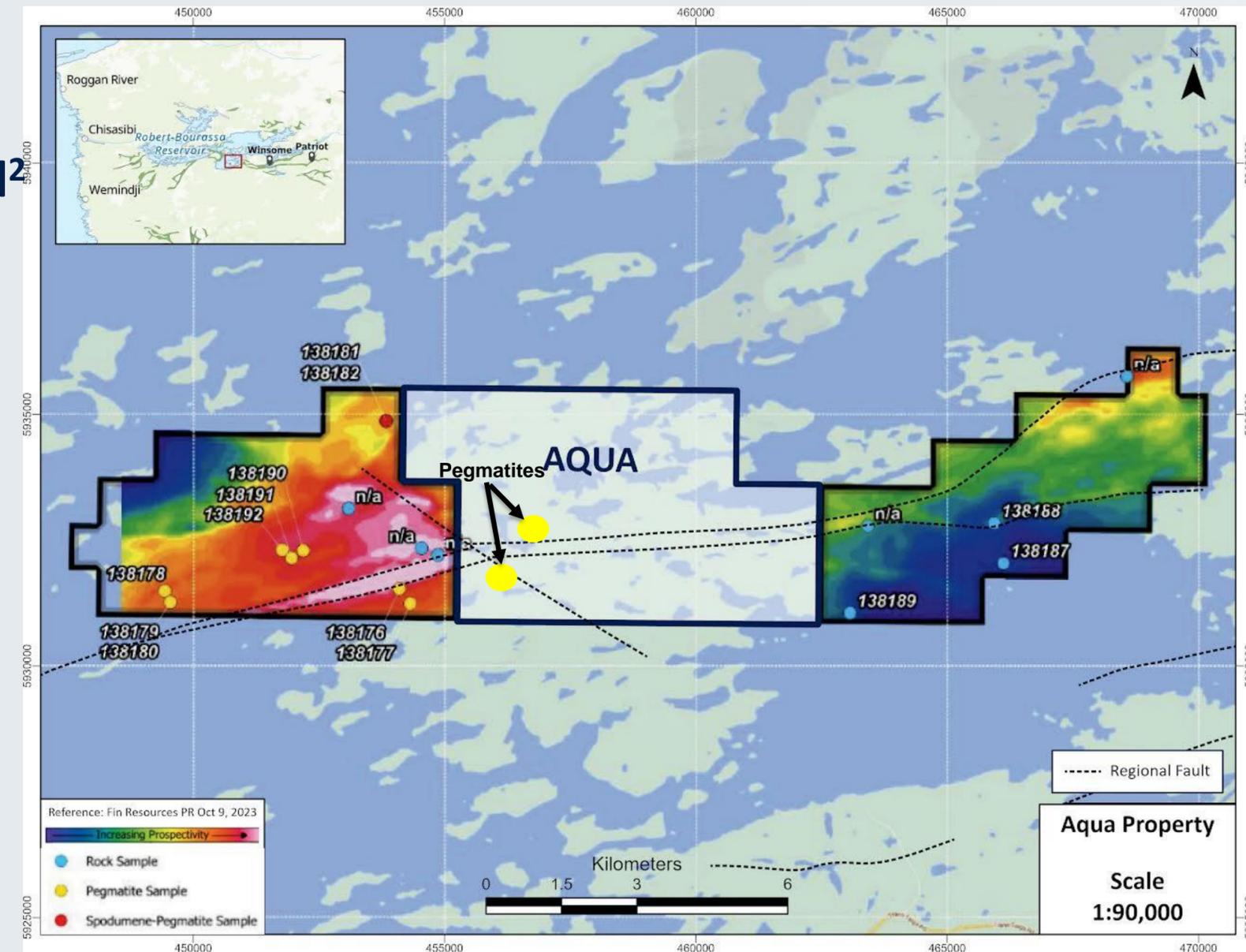
Abundant Spodumene crystals discovered at border¹

Multiple large outcropping pegmatite dykes identified²

FIN Resources (ASX: FIN)₁ has recently announced it has identified “abundant spodumene crystals within a broad pegmatite outcrop”

Spodumene crystals estimated to be within 250m of Aqua’s boarder.

Targeted field program across Aqua to commence H1 2024.



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 12 October 2023.

JBY Executives - Site Visit

- Executive Director Andrew Dornan met with Deputy Chief of Wemindji Arden Visitor.
- Visited all La Grande Project properties (Joule, Aero and Aqua).
- Walked the recently discovered field of fractionated pegmatites with the field team.



First Nations community which JBY's properties site within - Cree Nation of Wemindji



JBY and Breakaway Exploration field team.

Completed Activities

- Initial engagement with Cree Nation of Wemindji
- LIDAR and high-resolution photography
- Field mapping and prospecting across Aero ongoing
- 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**
- **Aero property drill program currently forecast to commence H1 2024**
- **Commence field prospecting programs across Joule and Aqua properties H1 2024**

Why Invest?



Field of fractionated pegmatites discovered within 3 weeks of maiden fieldwork commencing¹



Only a fraction of substantial landholding explored to date



Accelerated drill program at Aero to commence H1 2024



Exceptional board and management with premium assets in a Tier 1 Jurisdiction



JAMES BAY
MINERALS

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