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# INVESTOR PRESENTATION

OCTOBER 2023

Building the pre-eminent vertically integrated **Lithium** business in Ontario, Canada

ASX | GT1

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# INDIGENOUS PARTNERS ACKNOWLEDGEMENT

**We would like to say Gchi Miigwech to our Indigenous partners. GT1 appreciates the opportunity to work in the Traditional Territory and remains committed to the recognition and respect of those who have lived, travelled, and gathered on the lands since time immemorial. Green Technology Metals is committed to stewarding Indigenous heritage and remains committed to building, fostering, and encouraging a respectful relationship with Indigenous Peoples based upon principles of mutual trust, respect, reciprocity, and collaboration in the spirit of reconciliation.**



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# CORPORATE SNAPSHOT

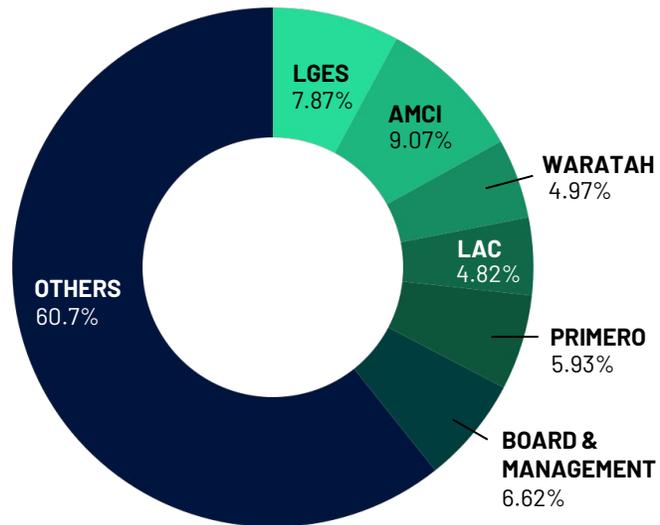


**276.1M** SHARES ON ISSUE

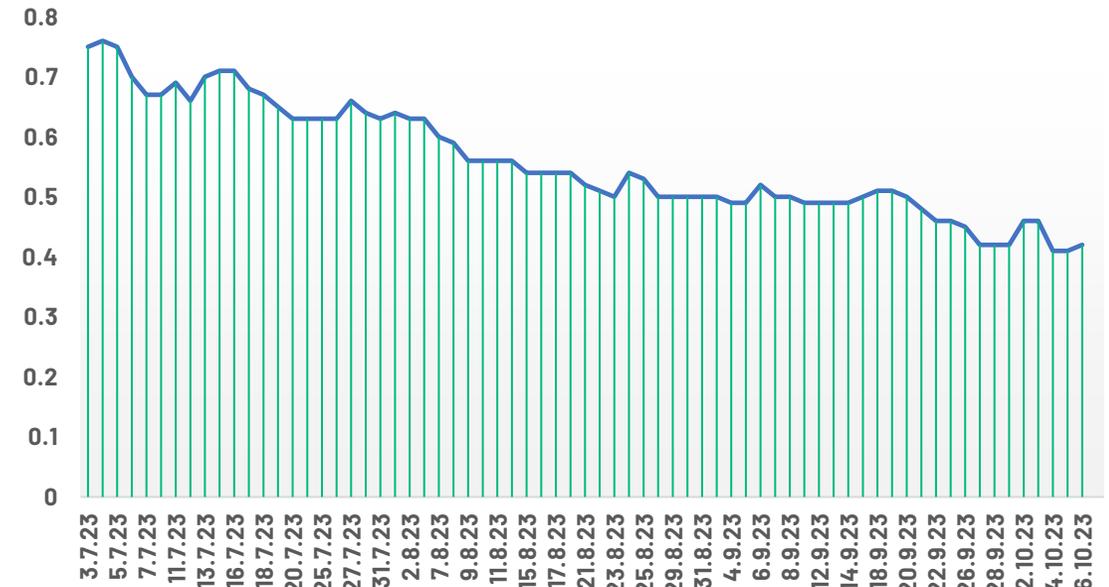
**5.8M** OPTIONS

**18.5M** PERFORMANCE RIGHTS

## SHARE REGISTER



## SHARE PRICE PERFORMANCE



As at 7 October 2023, cash balance as at 30 June 2023

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# COMPANY OVERVIEW

Extensive Portfolio of projects in Tier-1 jurisdiction



22.5Mt<sup>1</sup>

TOTAL JORC MINERAL RESOURCE ESTIMATE

1.14%

AVERAGE Li<sub>2</sub>O GRADE

10

LITHIUM PROJECT AREAS

56k Ha

560KM<sup>2</sup> LAND HOLDING

2025

PLANNED FIRST SPODUMENE CONCENTRATE PRODUCTION

72%

SPODUMENE CONCENTRATE PRODUCED FROM INITIAL HLS TESTWORK FOR SEYMOUR WITH LITHIUM RECOVERY EXCEEDING 72%



## Company Highlights

### Tier-1, low risk mining jurisdiction

- Prime position to support the North American EV market
- Supportive and proactive Government

Established, highly experienced local team in Thunder Bay and Toronto, Ontario

Strong leadership by a team who boast extensive experience in project execution

Moving from an Explorer to Developer with multiple works streams running in parallel while we rapidly grow our resources and develop our path to production

1. Seymour has an existing Mineral Resource estimate of 9.9 Mt @ 1.04% Li<sub>2</sub>O (comprised of 5.2 Mt at 1.29% Li<sub>2</sub>O Indicated and 4.7 Mt at 0.76% Li<sub>2</sub>O Inferred).<sup>1</sup> and Root has an Inferred Mineral Resource Estimate of 12.6 Mt @ 1.21% Li<sub>2</sub>O. Refer to GT1 ASX release dated 7 June 2023, 22.5Mt Mineral Resource base across Ontario Lithium Projects.

# BOARD AND MANAGEMENT

Extensive experience and proven track record of rapidly advancing and delivering lithium projects globally



**JOHN YOUNG**

Non-Executive Chairman

Highly experienced geologist

Co-founder and previous Executive Director of Pilbara Minerals Ltd a A\$11.8b lithium company



**CAMERON HENRY**

Executive Director

20 years' experience managing and operating public companies. Founding Managing Director of Primero Group, a global EPC company that specialises in the design, construction and operation of minerals processing facilities and specifically hard rock Lithium



**PATRICK MURPHY**

Non-Executive Director

Managing Director at AMCI Group, an experienced investment firm with a portfolio of exploration and development interests



**ROB LONGLEY**

Non-Executive Director

Geologist with +30 years' experience in global resources across a range of commodities

Managing Director of Asra Minerals, previously CEO/MD of Ardiffen and GM Geology at Sundance Resources

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# EXECUTIVE TEAM



**LUKE COX**  
Chief Executive Officer



**MATT HERBERT**  
Chief Operation Officer



**SCOTT GILBERT**  
Chief Financial Officer



**NATHAN SIMS**  
VP Operations - Exploration



**JOHN WINTERBOTTOM**  
GM Technical Services



**ROGER SOUCKEY**  
VP HR and Communities



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# WHY ONTARIO?

## TIER-1 MINING JURISDICTION

**\$1.5b**

In Strategic Innovation Fund (SIF), funding to support processing critical minerals

**>\$25b**

Committed in battery minerals supply chain since 2021

**\$369b**

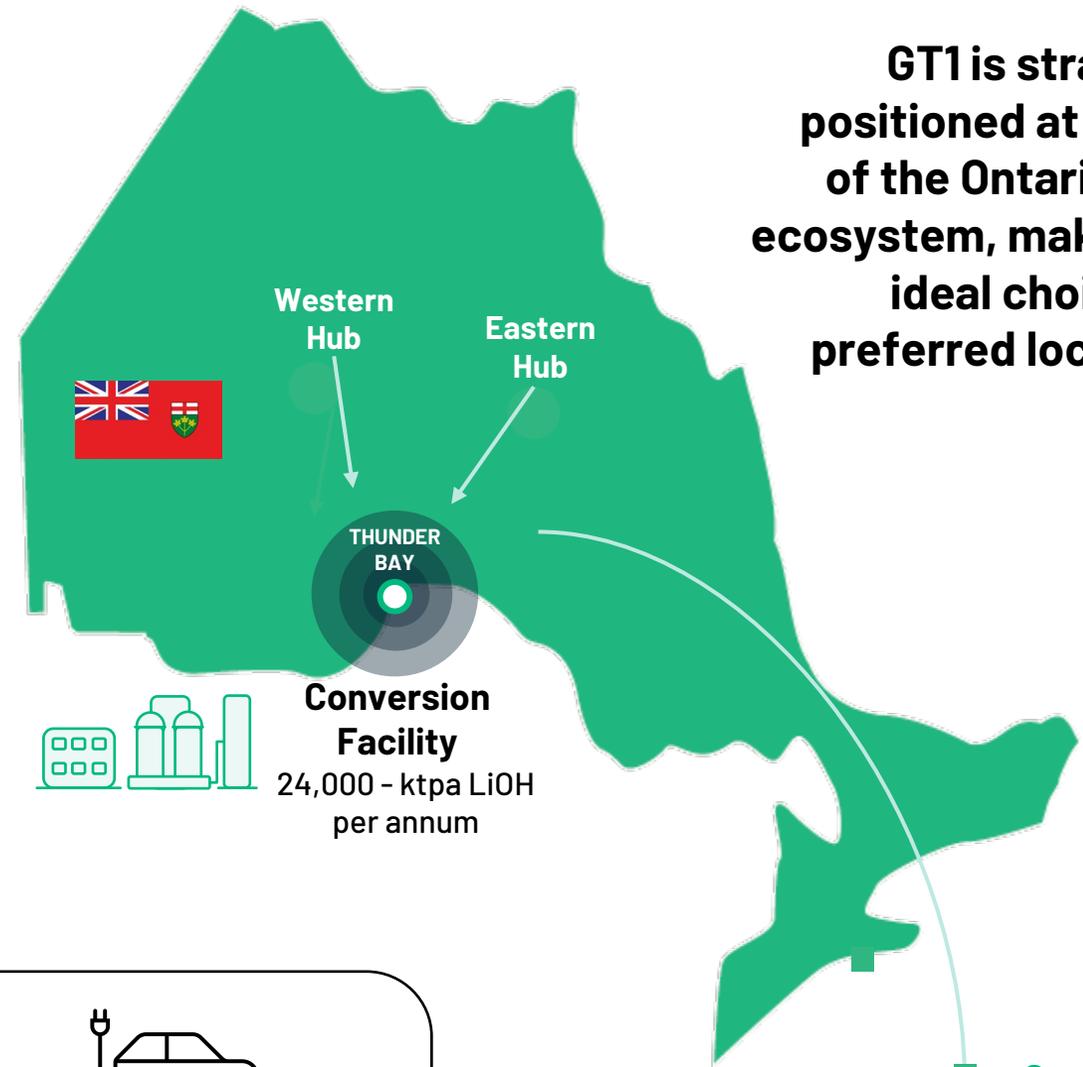
Towards green energy infrastructure and projects - U.S. Inflation Reduction Act 2022

**\$80b**

Canada's investment plan aimed at promoting clean energy and sustainable infrastructure

**Ontario's Critical Minerals Strategy**  
Unlocking potential to drive economic prosperity and create jobs

- Enhancing geoscience information and supporting critical minerals exploration
- Growing domestic processing and creating resilient local supply chains
- Enhancing Ontario's competitive regulatory framework
- Investing in innovation, research and development
- Building economic development opportunities with Indigenous partners
- Growing labour supply and developing a skilled labour force



**GT1 is strategically positioned at the heart of the Ontario battery ecosystem, making it the ideal choice as the preferred local lithium supplier**

**135 GWh**  
capacity in Ontario requiring **>120 ktpa** of LiOH per annum

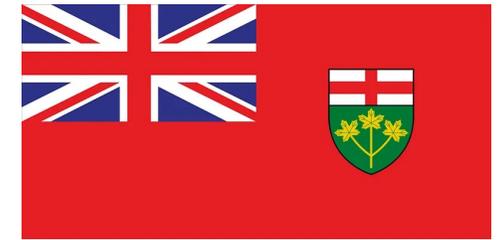
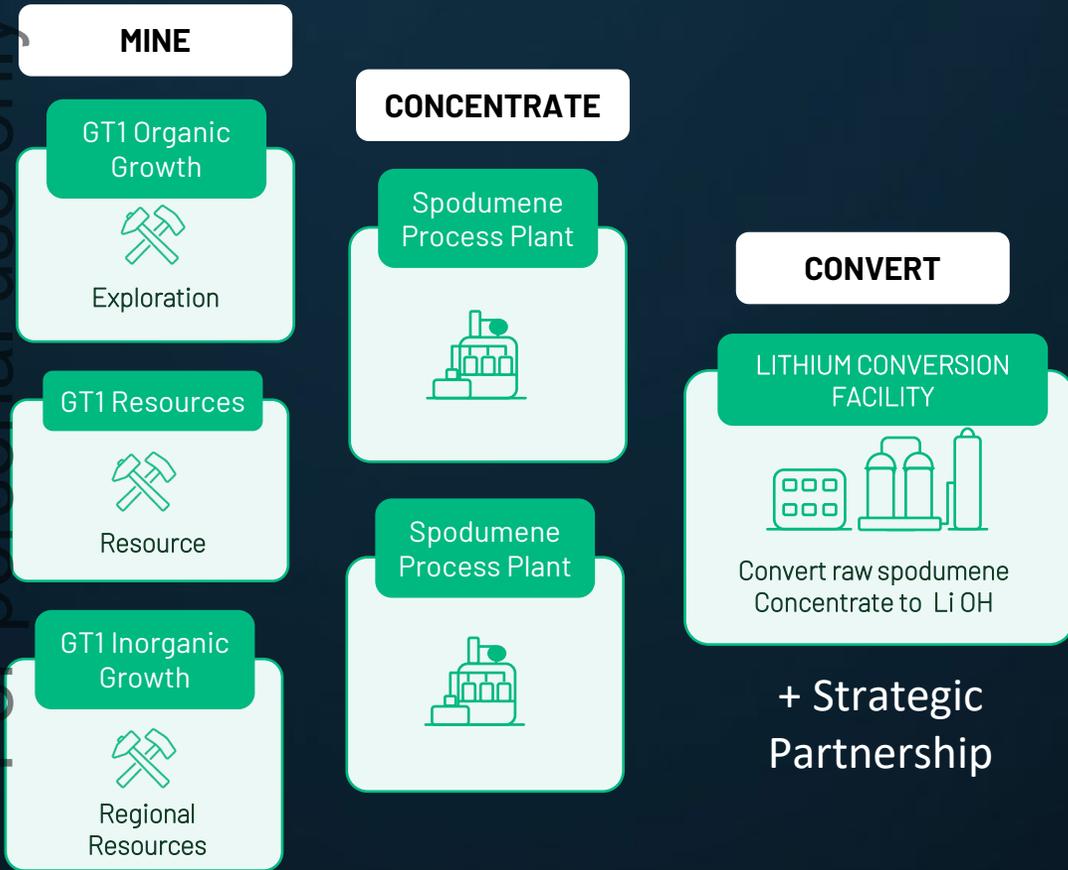
STELLANTIS + LG Energy Solution

**PowerCo**  
BATTERIES. FOR GENERATIONS TO COME.

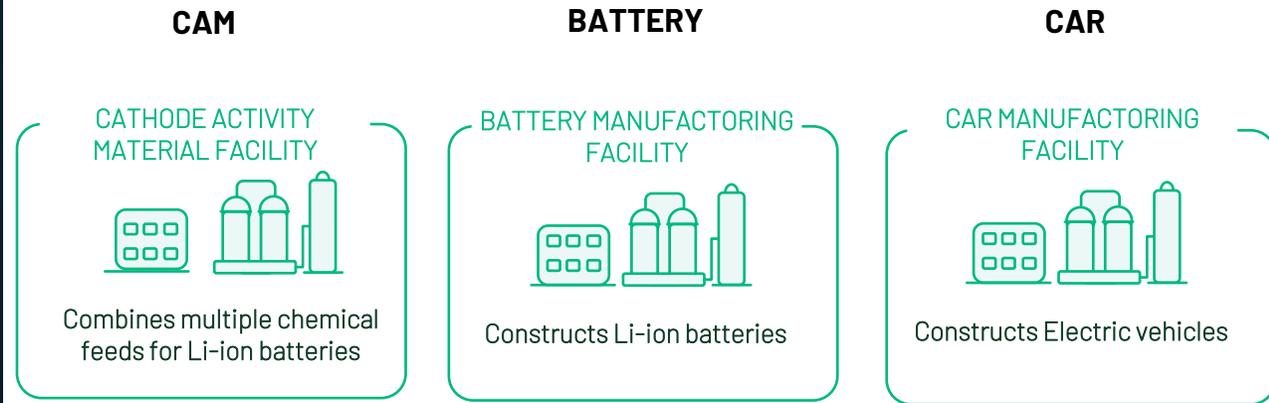
1. <https://www.miningweekly.com/article/canada-unveils-criteria-for-cl5bn-funding-for-critical-mineral-projects-2023-07-17>All proposed production dates quoted are indicative  
 2. <https://www.mckinsey.com/industries/public-sector/our-insights/the-inflation-reduction-act-heres-whats-in-it>  
 3. <https://www.politico.com/news/2023/03/29/canada-u-s-clean-energy-ira-00089284>

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# SUPPLY CHAIN ROCK TO EV-BATTERY



**MADE IN ONTARIO**

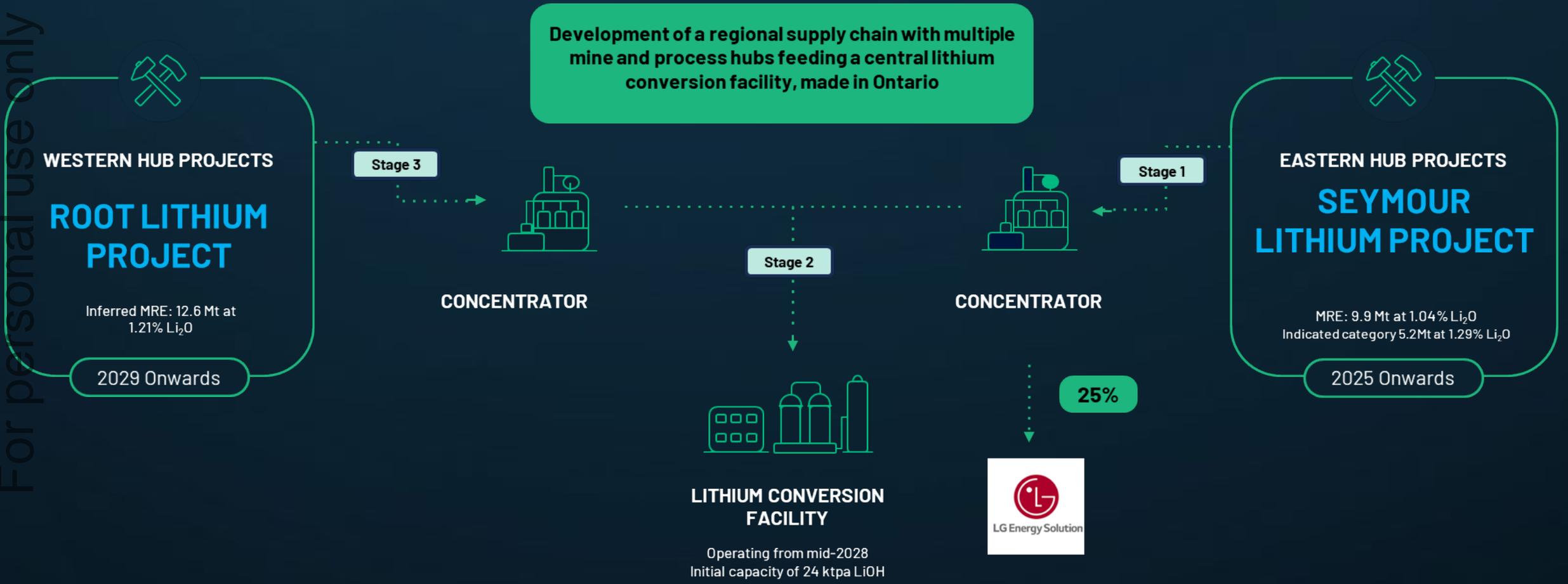


# PIONEERING ONTARIO'S LITHIUM FUTURE

3 stage integrated strategy to become the first Concentrates and Chemicals producer in the region

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Development of a regional supply chain with multiple mine and process hubs feeding a central lithium conversion facility, made in Ontario



1. Seymour has an existing Mineral Resource estimate of 9.9 Mt @ 1.04% Li<sub>2</sub>O (comprised of 5.2 Mt at 1.29% Li<sub>2</sub>O Indicated and 4.7 Mt at 0.76% Li<sub>2</sub>O Inferred).<sup>1</sup> and Root has an Inferred Mineral Resource Estimate of 12.6 Mt @ 1.21% Li<sub>2</sub>O. Refer to GT1 ASX release dated 7 June 2023, 22.5Mt Mineral Resource base across Ontario Lithium Projects.  
 2. Potential lithium chemical conversion facility capacities presented are to be evaluated by the Company as part of its downstream and integrated feasibility study work, which is targeted for completion in H1 CY24. The numbers are not projections of future production and investors are cautioned not to rely on the potential plant capacities as being indicative of forecast production volumes.  
 3. All proposed production dates quoted are indicative

# INTEGRATED PROJECT - FLOWSHEET

Conventional mining and conversion processes

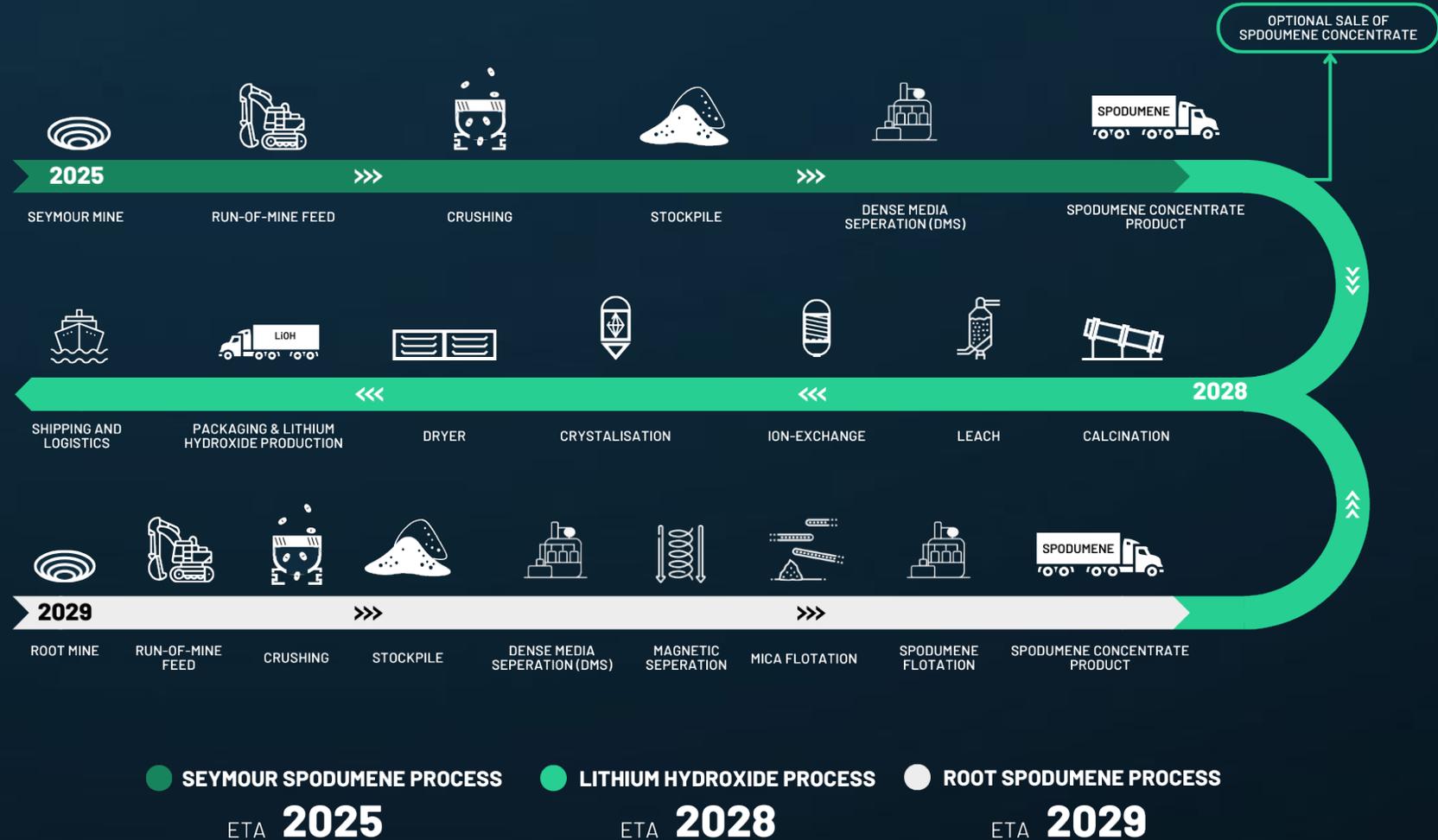
## Concentrators

- **Seymour:** Crushing and Dense Media Separation (DMS)
- **Root:** Crushing, DMS, milling, magnetic removal, mica and spodumene flotation

## Conversion Facility

- **Thunder Bay:** Analcime by-product that can be treated and potentially used for civil/fill applications.

Optimisations are under evaluation to potentially re-organize the process flowsheet and eliminate process steps



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# WORLD CLASS INFRASTRUCTURE

The Integrated Project located in Northern Ontario, one of the premier regions in the world for lithium exploration, with proximity to infrastructure, car manufacturers, battery storage and major high-tech population centres compared to other provinces in Canada



ALL WEATHER ROAD ACCESS



HEAVY HAULAGE AND WIDE LOAD CAPABILITY



ALL-WEATHER AIRPORTS



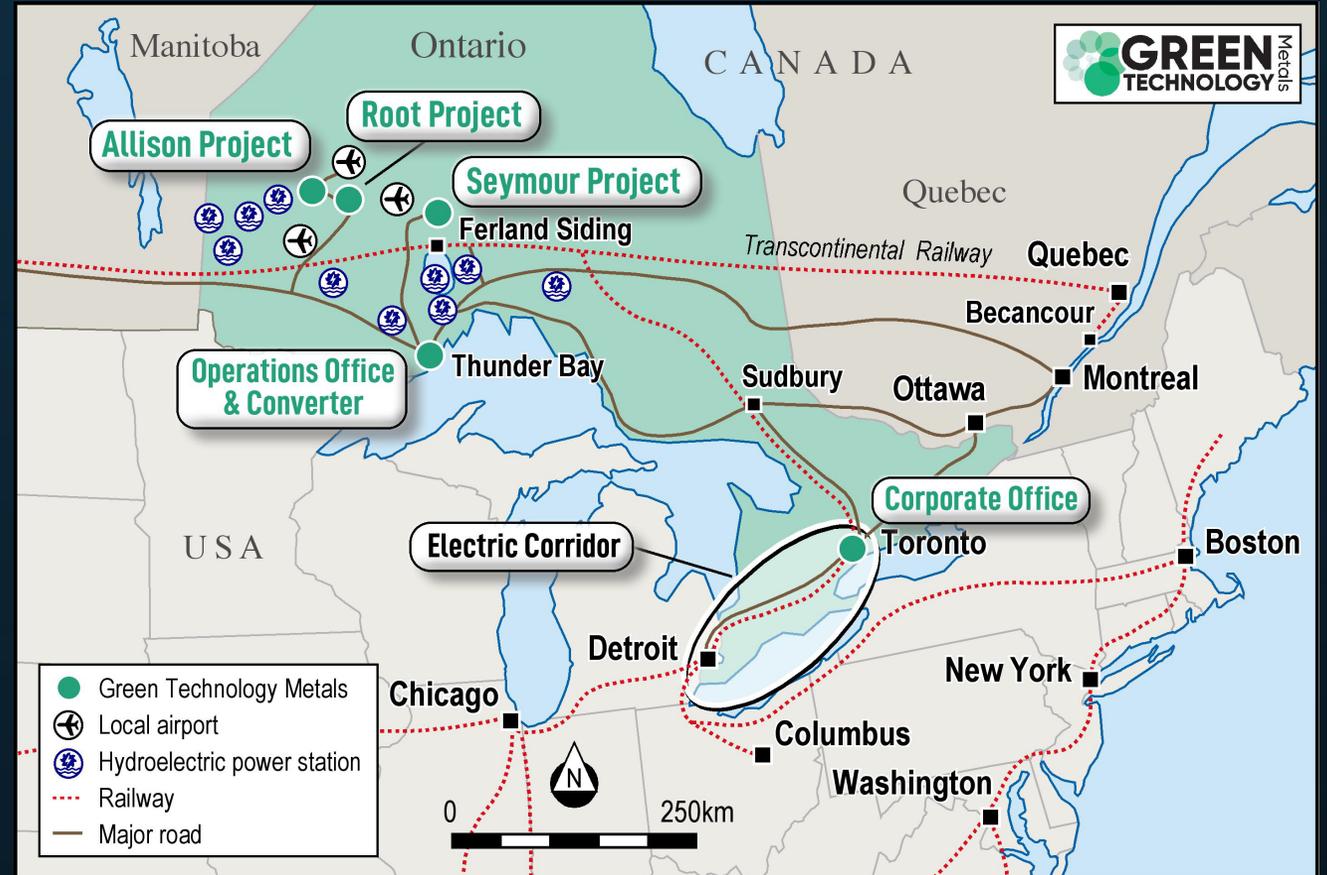
HYDRO POWER ACCESS



TRANS CANADIAN RAIL ACCESS



DEEP SEA PORT ACCESS



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# INDICATIVE TIMELINE TO PRODUCTION

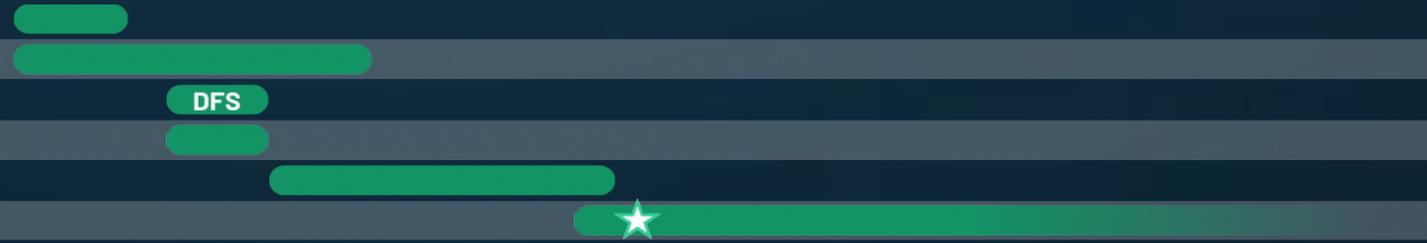
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2023      2024      2025      2026      2027      2028      2029      2030

H2      H1 H2      H1 H2      CY      CY      CY      CY      CY

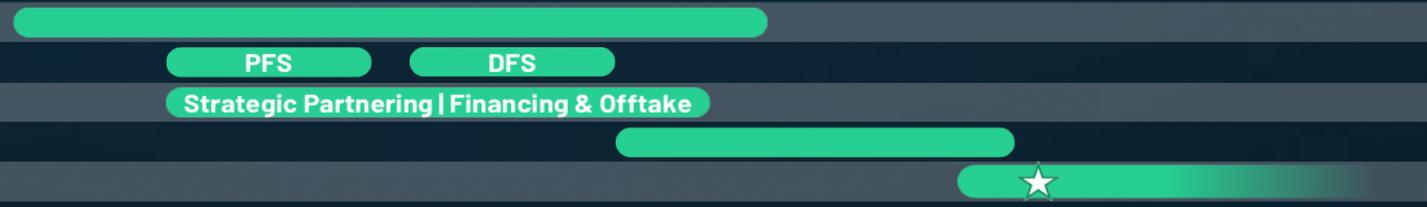
## Stage 1: Eastern Hub

- Integrated PEA Release
- Permitting and Approvals
- Feasibility Study - Seymour
- FID and Financing
- Construction
- Spodumene Concentrate Production



## Stage 2: Lithium Hydroxide Production

- Due Diligence and Permitting
- Feasibility Studies - LiOH
- Partnering and Finance
- Construction
- Commissioning & Production



## Stage 3: Western Hub

- Resource Drilling
- Feasibility Studies - Root
- Permitting & Approvals
- Construction
- Production



# STRATEGIC HIGHLIGHTS

First ever Offtake agreement executed and A\$20m strategic Investment from LG Energy Solution

Transformational 22.5 million tonne resource base across Ontario Projects

LOI signed for conversion facility in Thunder Bay with due diligence underway

SIF Funding application submitted

Strategic partnerships with prominent industry players such as Lithium Americas Corp, Primero, LG Energy Solution, and AMCI Group

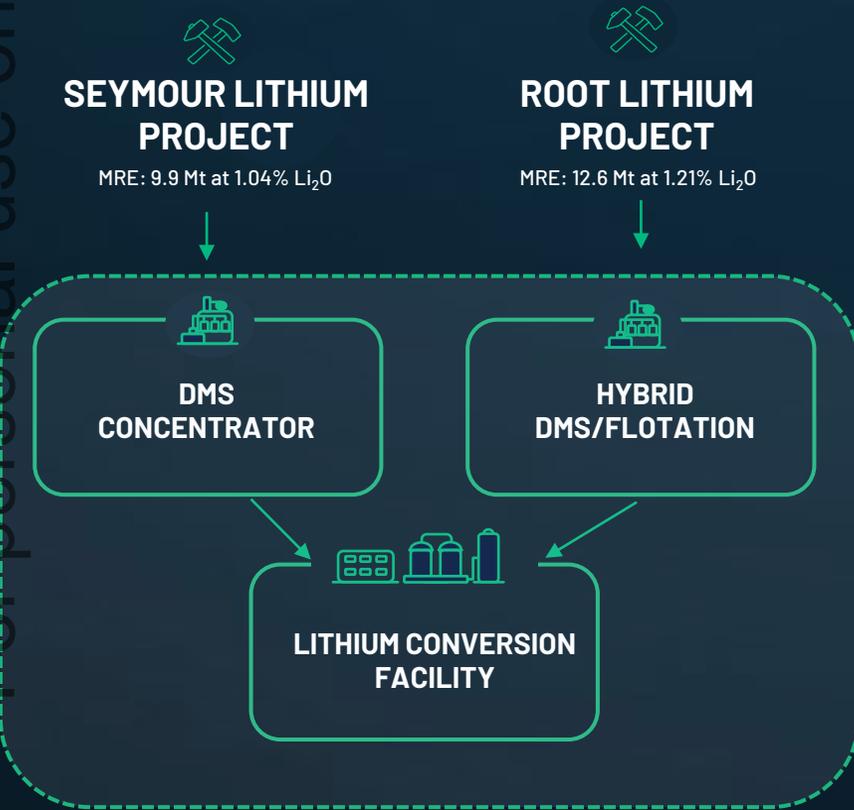
Renewed exploration agreement with Whitesand First Nation solidifying support for Seymour, Falcon and Junior projects

Acquisition of Junior Lithium Project, significant potential to add to GT1's eastern-hub resource base

# PRELIMINARY ECONOMIC ASSESSMENT

The full potential of our mineral endowment will be unlocked through Pit to Product Lithium Business Development

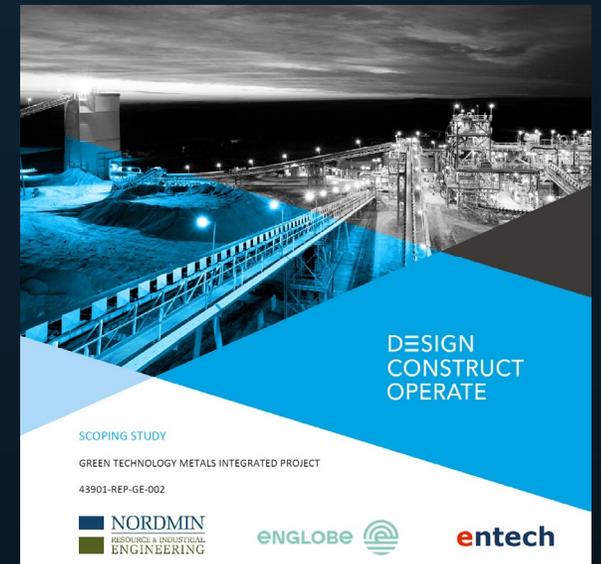
## Integrating mine, concentrator and conversion plant



Delivering a sustainable long-term lithium hydroxide supply to the Canadian supply chain

## Study to Include

- A sustainable, valuable vertically integrated lithium operation
- Combined Economics for both Concentrators and Conversion Facility
  - Capital and operating costs
- Project life estimate
- Integrated site plan including Concentrators and Lithium Conversion facility process design
- Construction timeline and path forward over a 3-stage development
- Mechanical
- Environmental Studies
- Permitting Process
- Favourable Infrastructure and logistics
- Future upside – growth opportunities
- Planned release Q4 23



# Stage 1: EASTERN HUB

<b>OWNERSHIP</b>	100% Owned
<b>AREA</b>	32,720 Hectares
<b>RESOURCE (Current)</b>	9.9Mt @ 1.04% Li <sub>2</sub> O (with 5.2Mt @ 1.29% Indicated)
<b>EXPLORATION TARGET</b>	22 to 26 Mt @ 0.8 to 1.5% Li <sub>2</sub> O
<b>DRILLING</b>	74,667m
<b>STAGE</b>	Pre-Development
<b>EXPECTED FIRST PRODUCTION</b>	2025



# SEYMOUR

Central processing facility located at Seymour

Potential to add satellite pits from the Junior and Falcon projects

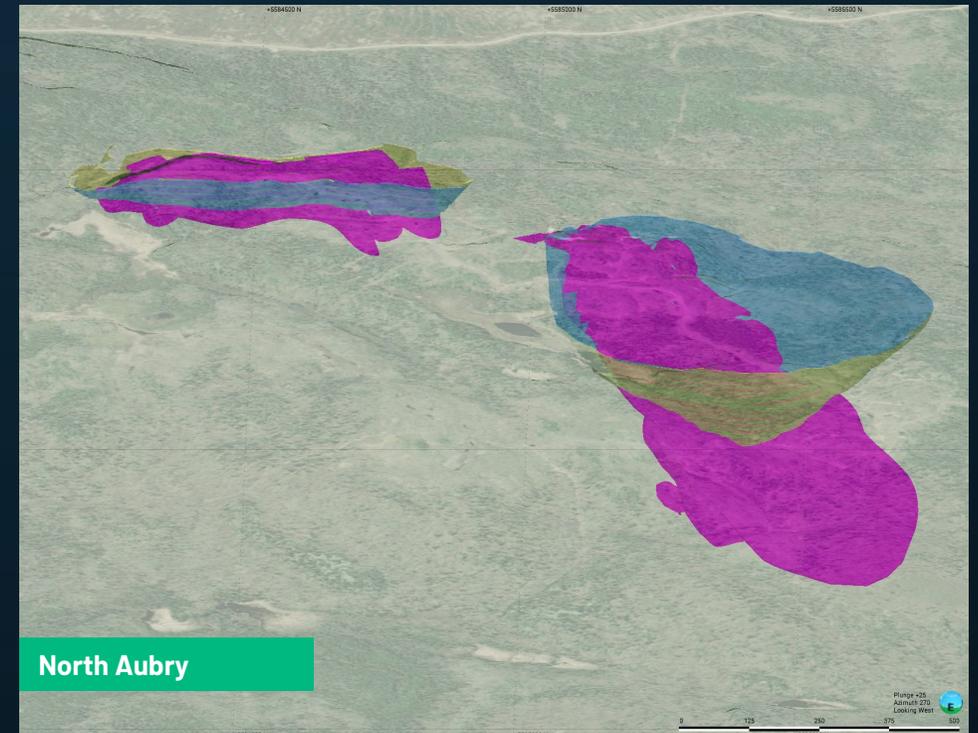
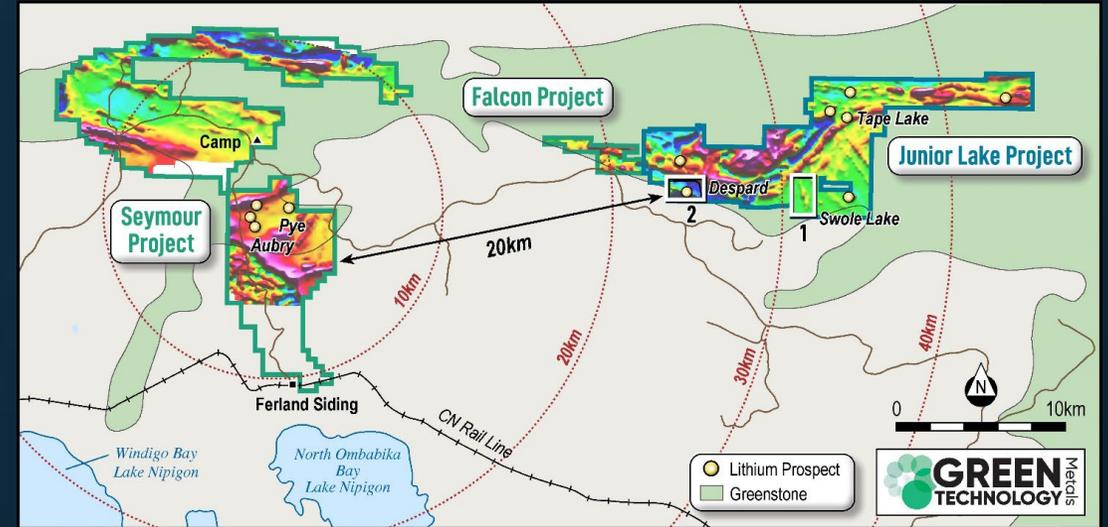
## Mineral Resource

- Increased geological confidence with +50% in the Indicated category
- 7736m infill drilling program underway to increase mineral resource confidence

## Exploration upside

Exploration coverage to date has been predominately around Aubry complex, leaving the vast majority of the project as exploration upside:

- North Aubry UG potential
- South Seymour unexplored
- Further exploration west of the Aubry Complex
- Northern Seymour geochemical exploration due to glacial cover
- Junior tenements recently acquired within circa 20kms



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# GREEN LITHIUM PRODUCTION IN CANADA

## Minimal environmental impact – small operation

Designed with minimal ground impact

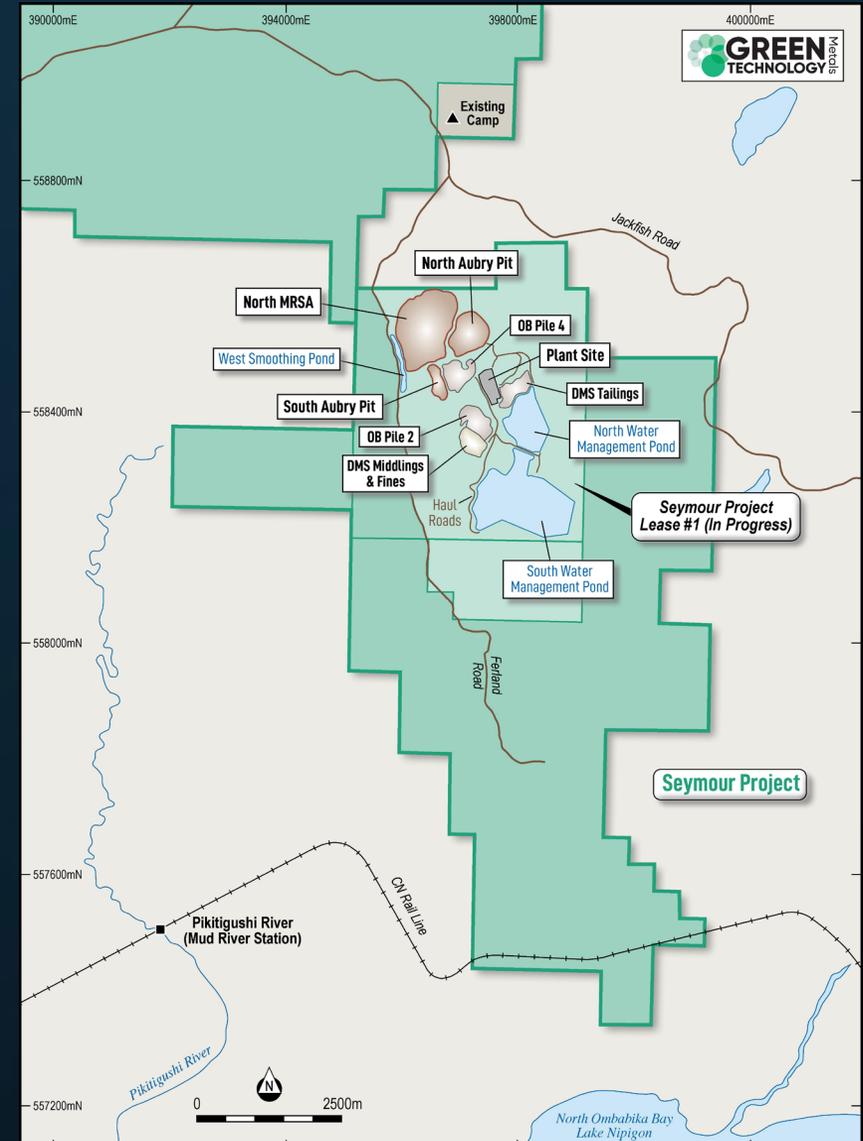
- Minimised footprint - only~500ha
- 2 open pits – staged North and South Aubry
- Dry stacked tailings

## No chemicals in processing

DMS only concentrator – NO CHEMICAL REAGENTS USED

## Zero Water Discharge

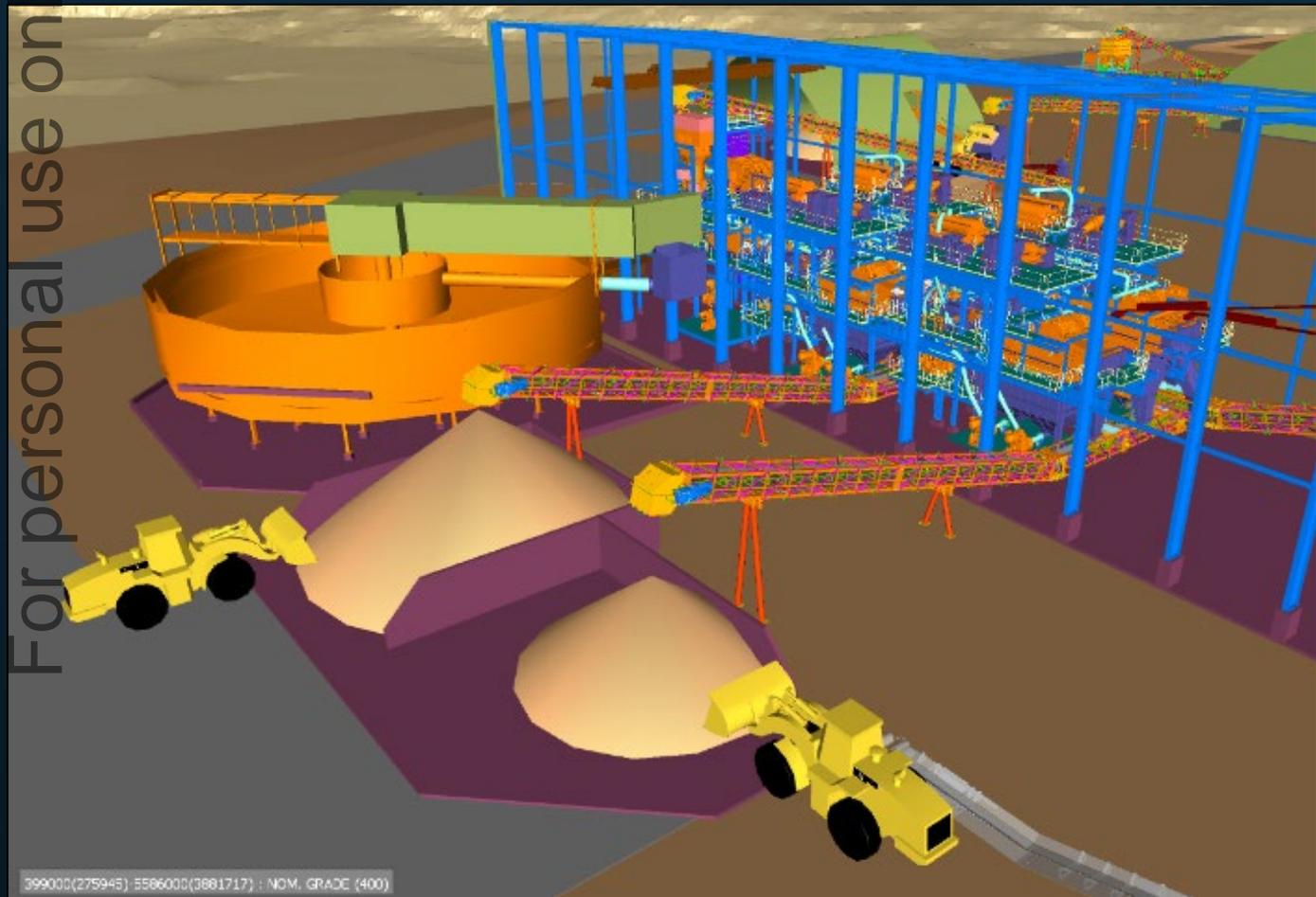
For life of mine: water is stored without any runoff into the surrounding environment until it is treated and pumped to back into the mine pits, with land revegetated



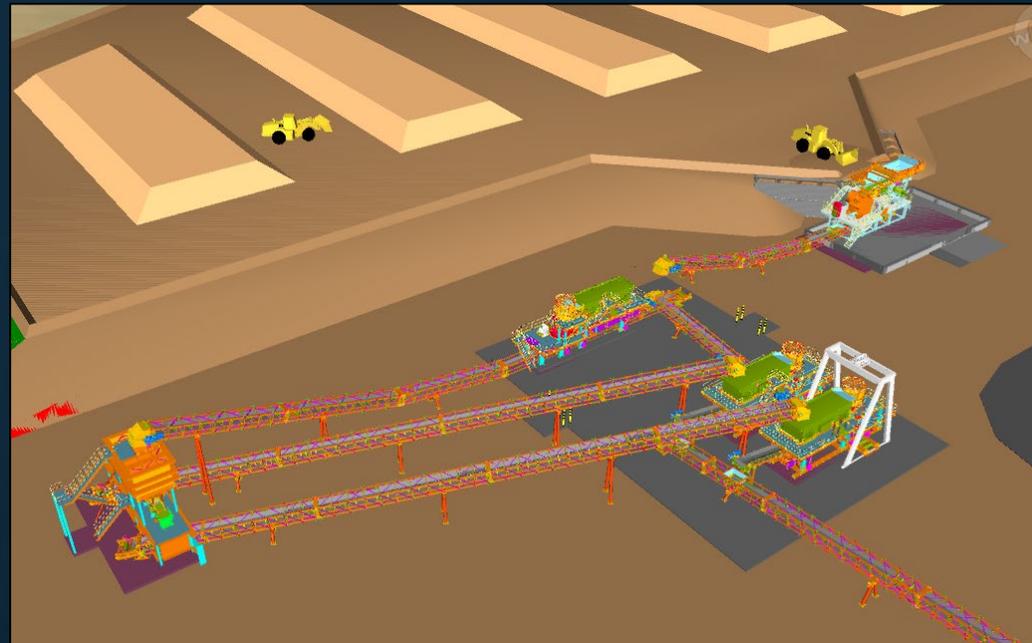
# SEYMOUR PROJECT - Progress

## Plant layout and sections

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399000(275945) 5586000(3881717) : NOM, GRAAD (400)



# PERMITTING SCHEDULE

## 2021 - 2022

- ✓ Baseline data collection
- ✓ Indigenous consultation
- ✓ Technical studies & engineering
- ✓ Pre-submission consultation with government agencies

## 2023

- ✓ 3 years of baseline data completed
- ✓ Project design completed to support permit applications
- Submit permit applications
- Indigenous consultation - In progress
- Public Consultation - Underway
- MNRF Class EA (RSFD)

## 2024

- Obtain permits
- Lease claims
- Timber clearing
- Commence construction
- On-going consultation
- On-going monitoring



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# TESTWORK – Concentrator

Conventional mining processes utilising industry expertise

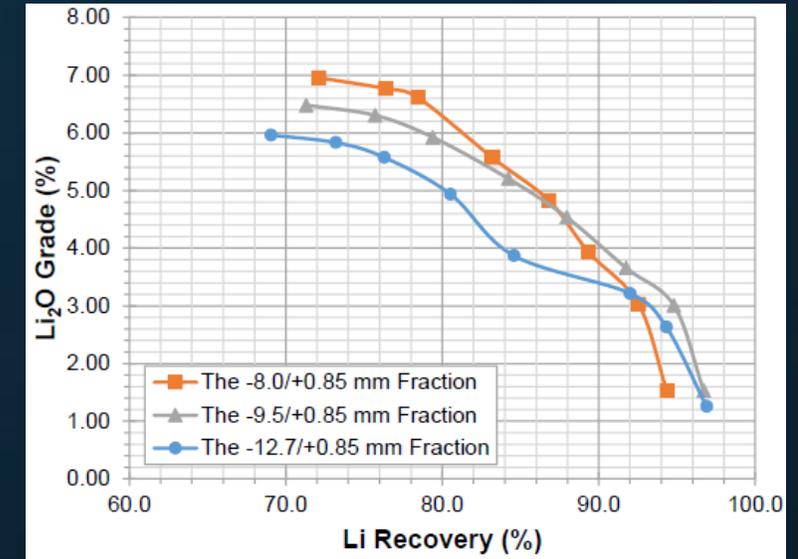
Seymour – Very coarse, clean in nature – Spodumene

## HLS

- Completed – Achieved a 72% recovery.
- Demonstrating Seymour’s coarse grain spodumene is amenable to DMS.
- Opportunity for further optimisation on liberation/size fractions and DMS processing methods.

## DMS – Pilot Program

- Program is completed with results due in October
- Ore taken from multiple parts of ore body to present a representative sample of ore variability for Seymour Definitive Feasibility Study mid 2024
- 100t bulk sample taken – piloting to commence in new year to produce 10t of concentrate



Seymour HLS – Grade/Recovery curve



HLS on master composite - crush size 8 mm			Grade		Distribution	
Description	HLS SG	Mass Distribution	% Li <sub>2</sub> O	% Fe <sub>2</sub> O <sub>3</sub>	Li <sub>2</sub> O	Fe <sub>2</sub> O <sub>3</sub>
HLS non-mag <sup>1</sup> product	2.82	12.7	6.0	1.2	72.6	19.2
HLS mag <sup>1</sup> product	2.82	3.6	1.3	9.1	4.5	34.7
HLS tailings	-2.65	46.7	0.0	0.2	2.0	9.3
Flotation feed (fines and middlings)	-	37.0	0.6	0.9	20.9	36.9
<b>Total feed</b>	<b>-</b>	<b>100</b>	<b>1.1</b>	<b>0.9</b>	<b>100</b>	<b>100</b>

<sup>1</sup> Dry magnetic separator used for HLS testwork

Seymour HLS – 8mm size fraction results

1. See announcement “Course Spodumene Produced at Seymour”, 22 December 2022

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# JUNIOR LITHIUM PROJECT

Potential to significantly add to Eastern-hub resource base

## LCT spodumene-bearing pegmatites

measuring up to 40 meters in length and approximately 6 meters in width surface exposure

## Significant lithia grade up to 3.23% Li<sub>2</sub>O

returned from rock chip samples

## Proven grade and multiple occurrences

with the potential to significantly add to GT1's eastern-hub resource base

## Similar magnetic signatures to Root Bay

indicating the likelihood of stacked pegmatites or a potentially fertile intrusive system

Sample	Name	E	N	Type	Li <sub>2</sub> O %
F713162	Despard	422507	5586337	Float	3.23
F713124	Despard	422504	5586341	Outcrop	2.56
F712692	Tape Ridge Peg	433191	5591393	Outcrop	2.97
F712769	Tape Ridge Peg	433193	5591392	Float	2.67
F712693	Tape Ridge Peg	433192	5591389	Outcrop	2.11



Despard surface outcrop with Spodumene crystals in pegmatite mass (Easting 422504, Northing 5586341)

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# Stage 2: CONVERSION FACILITY

<b>OWNERSHIP</b>	Under option
<b>AREA</b>	25 Hectares
<b>STAGE</b>	Preliminary Economic Assessment
<b>PRODUCTION</b>	2028



# CONVERSION FACILITY

**Stage 1** – proposed circa 20-25 kt capacity

**Stage 2** – plant/site layout confirmed for additional train

**Proposed Alkali leach flow sheet** – analcime by-product that can be treated and potentially used for civil/fill applications. Flow sheet currently being implemented on projects globally – specifically Tesla (Texas Hydroxide Facility), Keliber (Finland) & Piedmont (Tennessee Lithium)

**550 Shipyard Drive undergoing full due diligence**

- Optioned property, strategically positioned industrial land
- Environmental studies assessments well underway

**Ongoing Government meetings for funding and permitting**

- C\$1.5B available for critical minerals downstream processing through SIF

**Strategic Innovation Funding (SIF) applications lodged for assessment and supported by LGES**

**Conversion test work advancing**

- Concentrate sample complete and shipped to FLS Pyro Utah, USA
- Bench scale Conversion to Lithium Hydroxide test work underway



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# Stage 3: WESTERN HUB

<b>OWNERSHIP</b>	100% Owned
<b>AREA</b>	23,095 Hectares
<b>RESOURCE (Current)</b>	12.6Mt @ 1.21% Li <sub>2</sub> O
<b>EXPLORATION TARGET</b>	20-24Mt @ 0.8 to 1.5% Li <sub>2</sub> O
<b>DRILLING</b>	42,000m
<b>STAGE</b>	Preliminary Economic Assessment
<b>EXPECTED FIRST PRODUCTION</b>	2028/9



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# WESTERN HUB

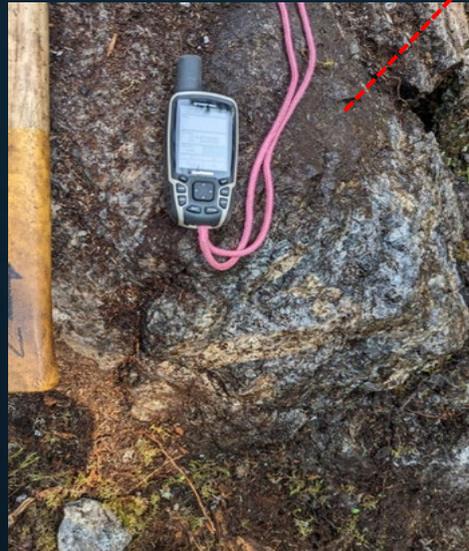
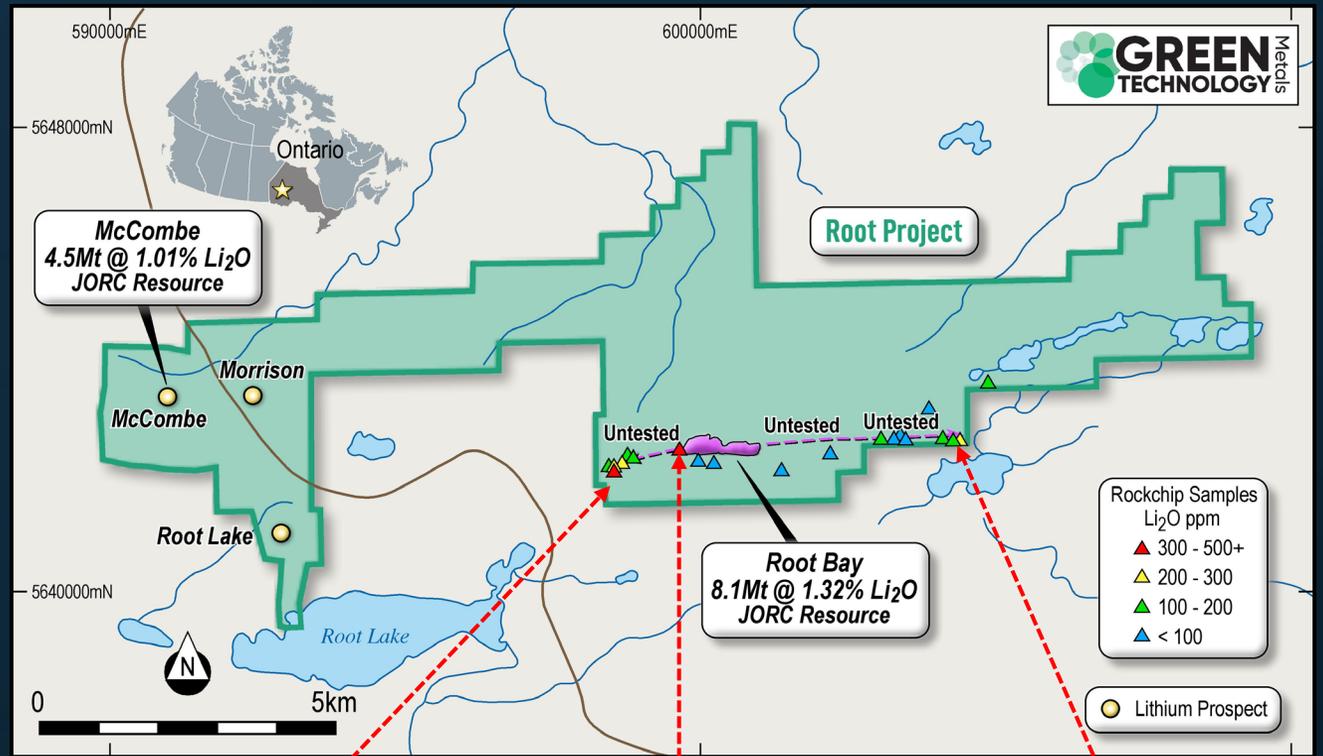
## Root Bay

### Excavation

The original Root Bay outcrop was only exposed when the local forestry came through and cleared roads and trees. GT1 teams have been successfully trenching the ridge and exposing LCT pegmatites East and West of the original find.

### Exploration

Geologists have been logging and sampling numerous occurrences along the ridge with visual Spodumene, creating numerous follow up drill targets.



# ROOT BAY – Deep Potential

## Root Bay

### Thickness

The stacked pegmatites within the Root Bay area progressively get thicker from East to West with Pegmatite #6 on the west averaging 18m thickness.

### Depth

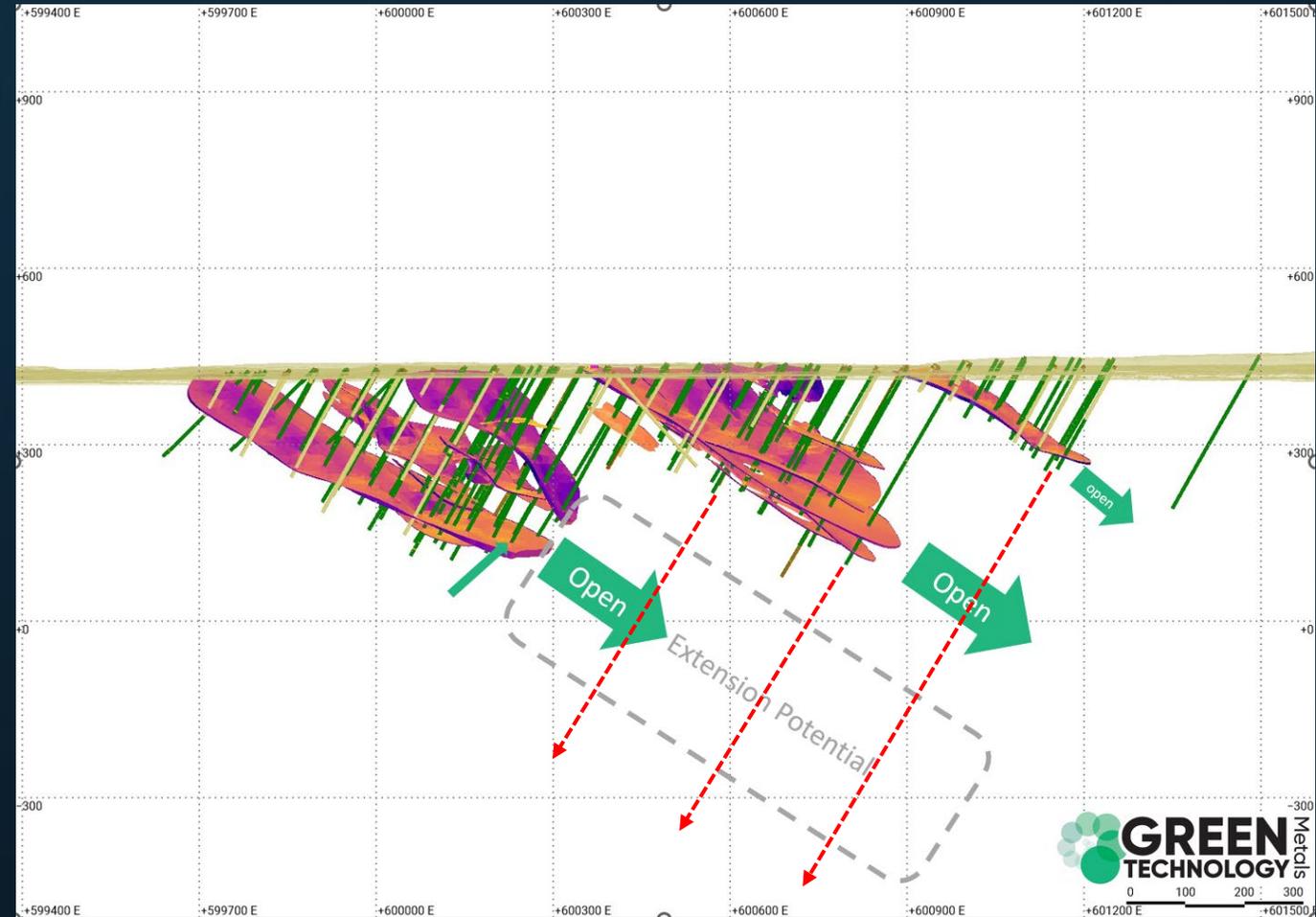
All of the pegmatites are open at depth with the capability to extend further. Pegmatite #6 is consistently thick and higher grade down dip, adding to the potential for an underground operation.

### Convergence

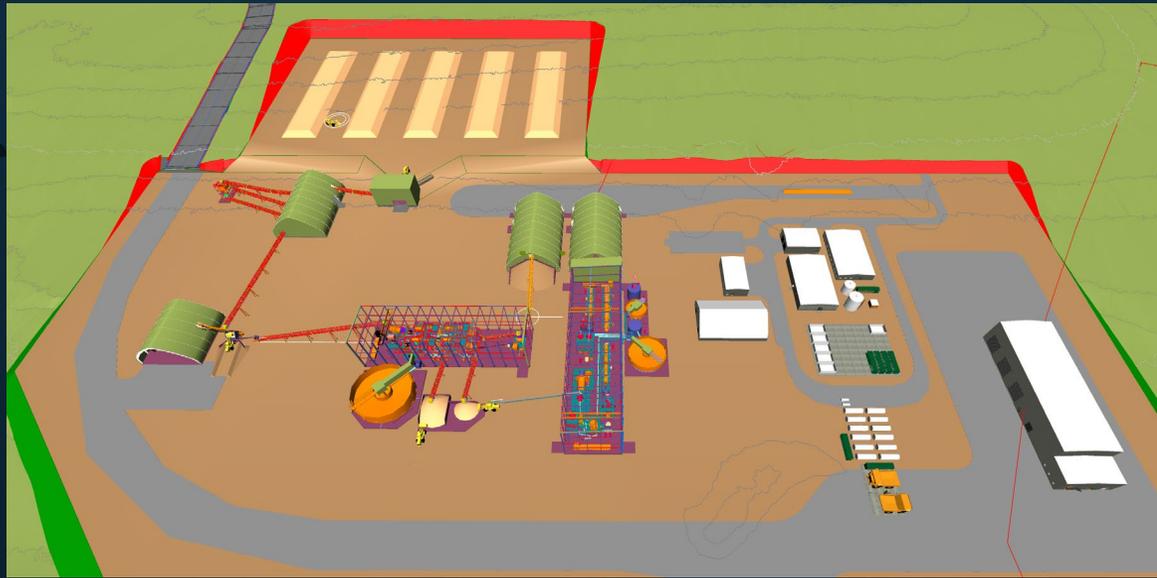
Potential to find the 'feeder zone' with further testing along strike and at depth. Being a stacked system there is potential with many similar global examples where the pegmatites converge towards a central feeder zone hosting bonanza grades and thickness.

### Testing

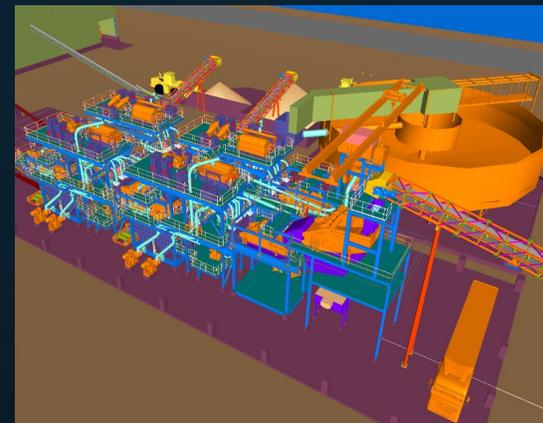
Diamond drilling has already commenced by extending previously drilled holes and targeting down dip resource extensions to significantly increase tonnage within the economic boundaries of Open Pit and Underground scenarios.



# ROOT PROJECT – Plant layout & sections

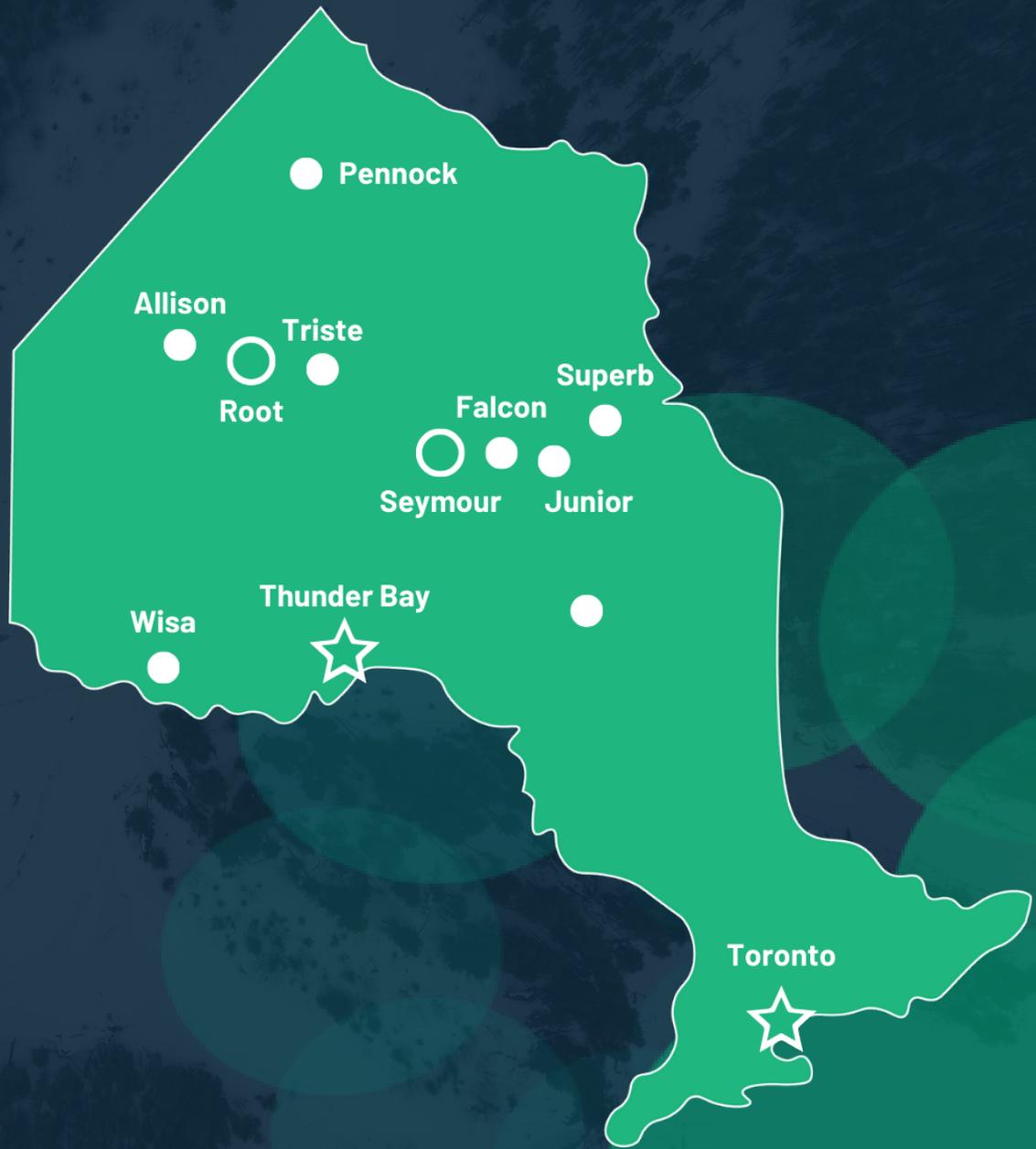


- High grade – finer grained spodumene however still coarse against benchmarks
- Hybrid DMS/Flotation concentrator envisaged – better recoveries
- Proposed standard Tailings Storage Facility (TSF)
- Standard permitting timelines – federal permits most likely required
- Potential for upsizing mill throughput
- Hydro power – 132kV with 2 kms of facility



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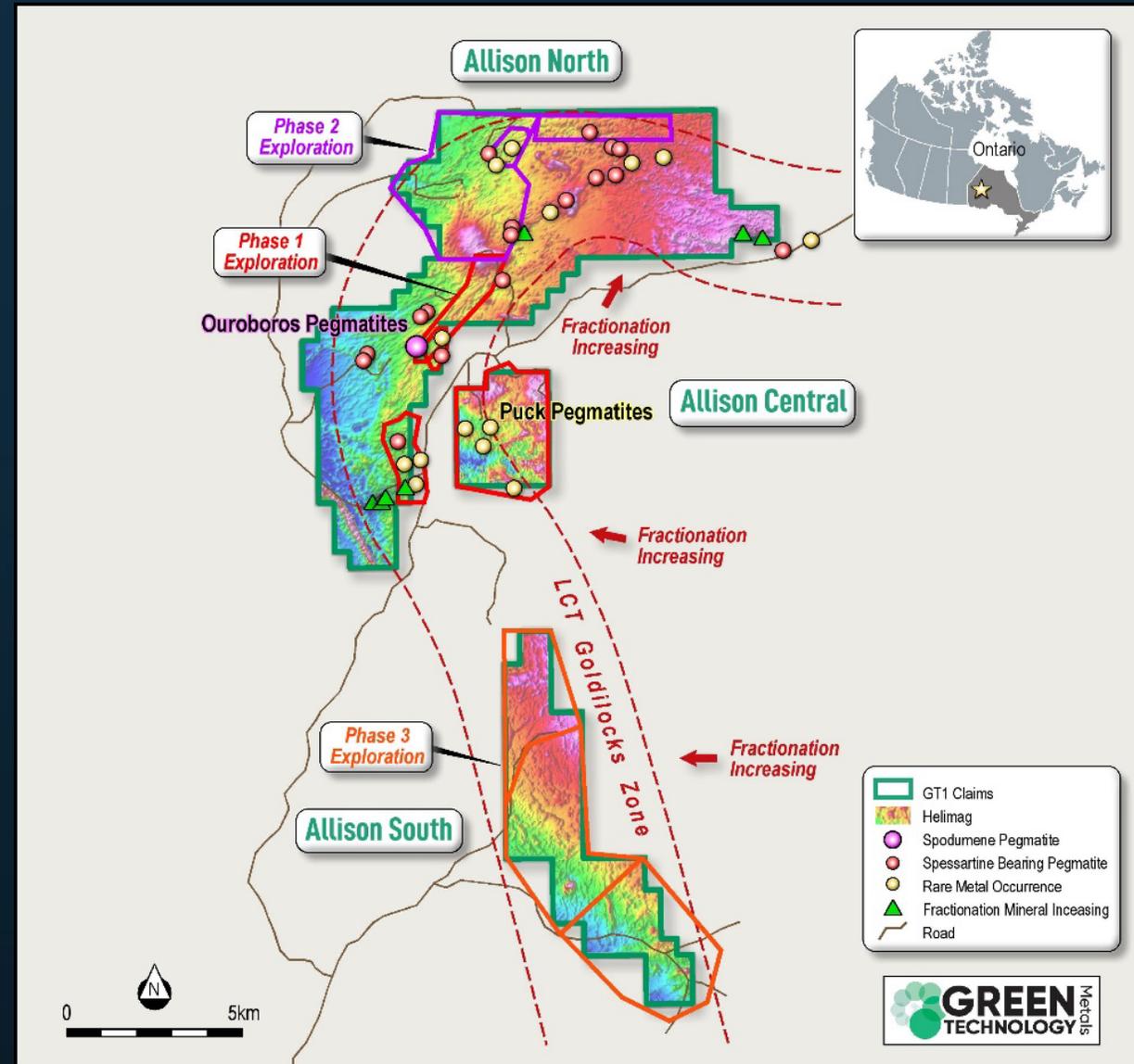
# Stage 3: ADDITIONAL PROJECTS



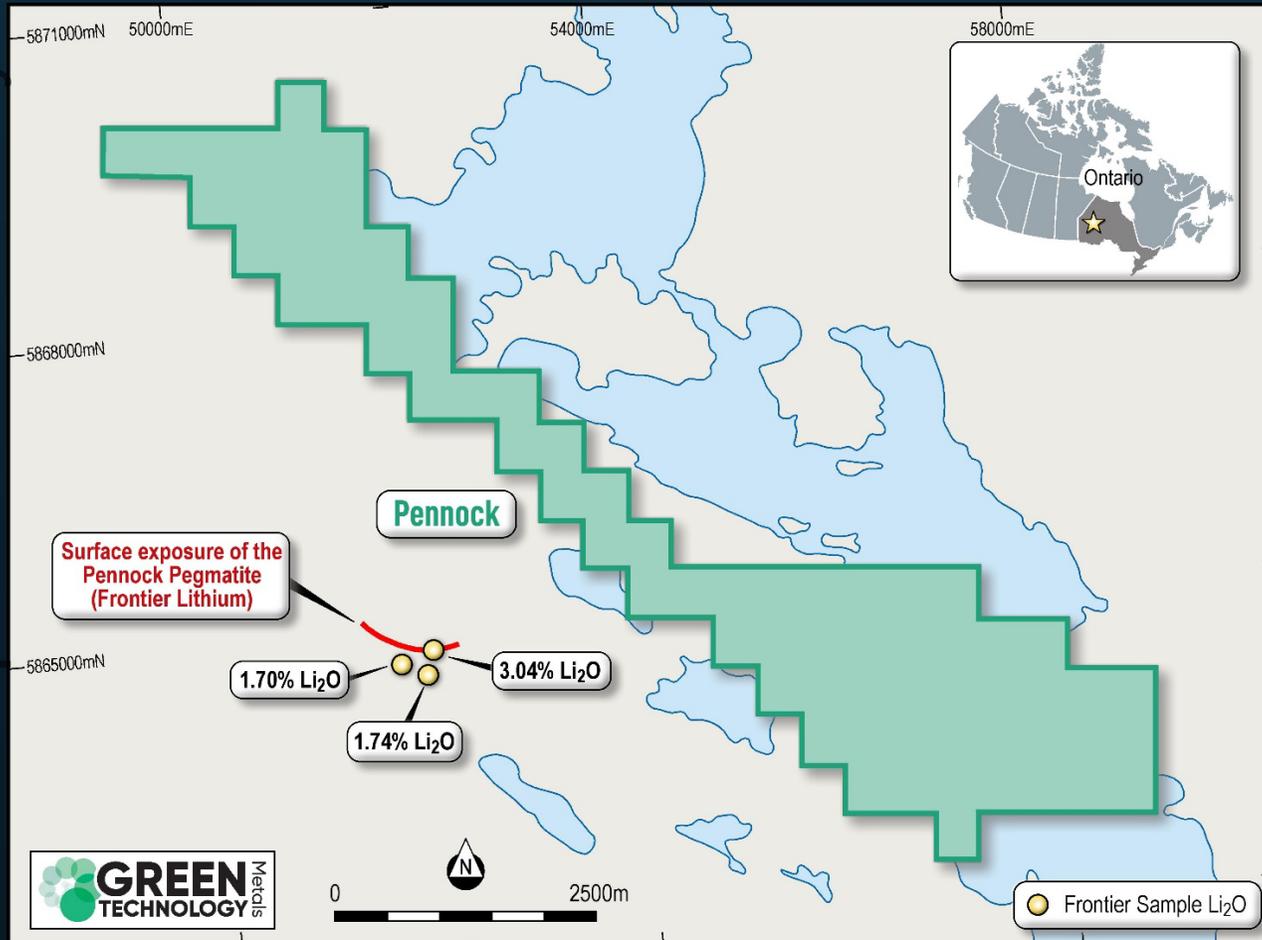
# ALLISON

<b>AREA</b>	9,444 Hectares
<b>STAGE</b>	Exploration

- Located 42km from the Root Lithium Project and easily accessible by road
- Believed to be the source of LCT pegmatite occurrences in the region
- 3 claim blocks; North, Central and South lie on the edge of a fertile granite believed to be the source of LCT pegmatite occurrences in the region
- Largest documented intrusive system in Ontario prospective for LCT pegmatites and remains relatively untested, prospective for further discoveries
- Multi-phase exploration will continue over the next quarter to identify potential drill targets



# PENNOCK



<b>AREA</b>	1389 Hectares
<b>STAGE</b>	Exploration

An extensive reconnaissance program is underway over the entire Pennock project.

Pennock is located adjacent to Frontier Lithium's Pennock Pegmatite, that has a 30x16m spodumene-bearing outcrop with results from Frontier's channel sample B00192364 averaging 2.97% Li<sub>2</sub>O

This outcrop is visible in satellite imagery and shows a general sweeping trend towards GT1's Pennock property

# WHAT IS NEXT?

- **Root Bay MRE update & further drilling**
- **Seymour DMS Test work results – October**
- **Conversion Test work – Q4 2023 & ongoing**
- **Integrated PEA – Q4 2023**
- **Junior maiden drilling program – Q1 2024**
- **Seymour MRE update**
- **Finalisation of partnering process for downstream**
- **DFS: Seymour Mine and Concentrator – Q2 2024**
- **Seymour – Financial Investment decision**
- **PFS: Lithium Conversion Facility – Q4 2024**



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# Contacts

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## Chief Executive Officer

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Perth, Western Australia 6008

Email: [info@greentm.com.au](mailto:info@greentm.com.au)

## Investor Relations and Media

### Jacinta Martino

Email: [ir@greentm.com.au](mailto:ir@greentm.com.au)

## Share registry

### Automic Group

Email: [hello@automic.com.au](mailto:hello@automic.com.au)

ASX **GT1**



# APPENDIX | MINERAL RESOURCE ESTIMATE

Project	Tonnes (Mt)	Li <sub>2</sub> O (%)	Ta <sub>2</sub> O <sub>5</sub> (ppm)
<b>Root Project</b>			
<i>Root Bay</i>			
Inferred	8.1	1.32	35
<i>McCombe</i>			
Inferred	4.5	1.01	110
<b>Total</b>	<b>12.6</b>	<b>1.21</b>	<b>62</b>
<b>Seymour Project<sup>1</sup></b>			
<i>North Aubry</i>			
Indicated	5.2	1.29	161
Inferred	2.6	0.90	120
<i>South Aubry</i>			
Inferred	2.1	0.50	90
<b>Total</b>	<b>9.9</b>	<b>1.04</b>	<b>137</b>
<b>Combined Total</b>	<b>22.5</b>	<b>1.14</b>	<b>95</b>

For full details of the Seymour Mineral Resource estimate, see GT1 ASX release dated 23 June 2022, Interim Seymour Mineral Resource Doubles to 9.9Mt. For full details of the Root Mineral Resource estimate, see GT1 ASX release dated 7 June 2023, 22.5Mt Mineral Resource base across Ontario Lithium Projects. The Company confirms that it is not aware of any new information or data that materially affects the information in that release and that the material assumptions and technical parameters underpinning this estimate continue to apply and have not materially changed.



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**No New Information:** The information in this release that relates to Mineral Resource Estimates for the Ontario Lithium Projects was released on the ASX dated 23 June 2022, "Interim Seymour Mineral Resource Doubles" 19 April 2023, "GT1 Mineral Resources Increased to 14.4MT" and 7 June 2023, 22.5Mt Mineral Resource base across Ontario Lithium Projects. The Company confirms that it is not aware of any new information or data that materially affects the information in the releases and that the material assumptions and technical parameters underpinning these estimates continue to apply and have not materially changed.



# APPENDIX | COMPETENT PERSONS STATEMENT

The information in this Presentation that relates to the Exploration Results is based on activities carried out by Mr Luke Cox. Mr Cox has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Cox consents to the inclusion in this Presentation of the matters based on the information in the form and context in which it appears in this Presentation. Mr Cox is the Chief Executive Officer of the Company and holds securities in the Company. The Company confirms there have been no material changes to exploration results since first reported in accordance with Listing Rule 5.7.

## APPENDIX | EXPLORATION TARGETS

### Qualifying Statement for the Exploration Targets

The potential quantity and grade is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource

### Geological Setting

All the Claims (Seymour, Root Junior & Wisa) host lithium bearing pegmatites which sit within the fractionated lithium zone close to their magmatic source

### Strike

Drilling, surface sampling, aerial ortho-mosaics and topographic mapping (LiDAR) have been used to determine the approximate strike length of the pegmatites

### Depth

Drilling at Seymour and Root have confirmed the pegmatites can exceed 250m in depth, thus a depth of 500m has been applied

### Thickness

Implicit Modelling has been utilised to determine the thickness of the pegmatites and then extrapolated along strike and down dip using the parameters mentioned above

### Tonnage

Specific gravity of 2.78 has been applied to the implicit model volumes to determine the tonnage

### Grade

The Seymour and Root JORC Resource hosted Inferred grades ranging from 0.8 to 1.5%  $\text{Li}_2\text{O}$ , this has been used for the Exploration Targets

### Exploration Activities

Exploration targets are planned to be tested by field mapping and drilling over the next 36 months

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