

ADVANCED MATERIALS

THE FUTURE OF CANADA'S CRITICAL MINERALS

CORPORATE PRESENTATION

JUNE 2025





OTCQB:AVLNF FRA:OU5A TSX:AVL

Cautionary Statement

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This presentation contains "forward-looking information" within the meaning of applicable Canadian securities legislation. Forward-looking information with that are not based on historical fact contained in this presentation, including through documents incorporated by reference herein, are forward-looking statements that involve risks and uncertainties that could cause actual events or results reflected in the forward-looking statements. Such forward-looking statements reflect the Company's current views with respect to future events and include, among other things, statements regarding targets, estimates and/or assumptions related to future economic, market and other conditions that, while considered reasonable by the Corporation, are inherently subject to risks and uncertainties, including significant business, economic, competitive, political and social uncertainties and contingencies. These estimates and/or assumptions include, but are not limited to: grade of ore; rare metal and by-product commodity prices; metallurgical recoveries; operating costs; achievement of current timetables for development; strength of the global economy; availability of supplies, equipment and labour. Generally, forward-looking information can be identified by the use of forward-looking terminology such as "add" or "additional", "advancing", "anticipates" or "does not anticipates" or "does not anticipate", "conversion", "deliver", "convertinue", "conversion", "expanding" or "expanding" or "expansion", "expect" or "expectations", "forecasts", "forward", "goal", "improves", "increase", "intends", "justification", "plans", "potentially", "promise", "potentially", "promise", "will be" or "will consider", "work towards", or variations of such words and phrases or state that certain actions, events or results "may", "could", "would", "might", or "will be taken", "occur", or "be achieved".

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Industry Data

This presentation also contains or references certain market, industry and peer group data which is based upon information from independent industry publications, market research, analyst reports and surveys and other publicly available sources. Although the Company believe these sources to be generally reliable, such information is subject to interpretation and cannot be verified with complete certainty due to limits on the availability and reliability of raw data, the voluntary nature of the data from third party sources referred to in this presentation and accordingly, the accuracy and completeness of such data is not guaranteed.

QUALIFIED PERSON

Andrew J. Ramcharan, P. Eng., a Qualified Person ("QP") as such term is defined by National Instrument 43-101 - Standards of Disclosure for Mineral Projects, has reviewed and approved the technical information included in this presentation.



Investment Highlights

Proven Expertise



Leadership team with extensive and proven experience in the mining, refining and advanced materials sectors.

Unique Diverse Portfolio



- Nechalacho REE DFS (2013)
- Thunder Bay Facility PEA (2024) After-Tax \$4.1B NPV & 48% IRR
- Separation Rapids JV Sibelco

High Demand Markets



Strategically positioned in rapidly growing markets such as electric vehicles, renewable energy storage, and advanced technologies.

Strong Partnerships



Collaborations with leading industry players to enhance our capabilities and market reach, fostering innovation and growth:

- JV with Sibelco
- Partnership with Metso Corp.
- Collaboration with Qualcomm

Government Alignment



Our initiatives align with global regulations and incentives for green energy, technological advancement, and critical mineral supply chains.

Compelling Valuations



We leverage our projects to deliver maximum value for all stakeholders. Nechalacho plays an essential role in various critical applications.

AVALON

Company Overview

Avalon Advanced Materials Inc. is an asset management company dedicated to sourcing, processing and distributing materials that power a green and digital economy.

By aiming to support both domestic and global supply chains, we are laying the foundation for Canada's transformation towards a more competitive economy.



Nechalacho Project

Aims to provide a stable supply of zirconium and rare-earth minerals, supporting advanced technological industries while securing North American energy security.



Lake Superior Lithium Project

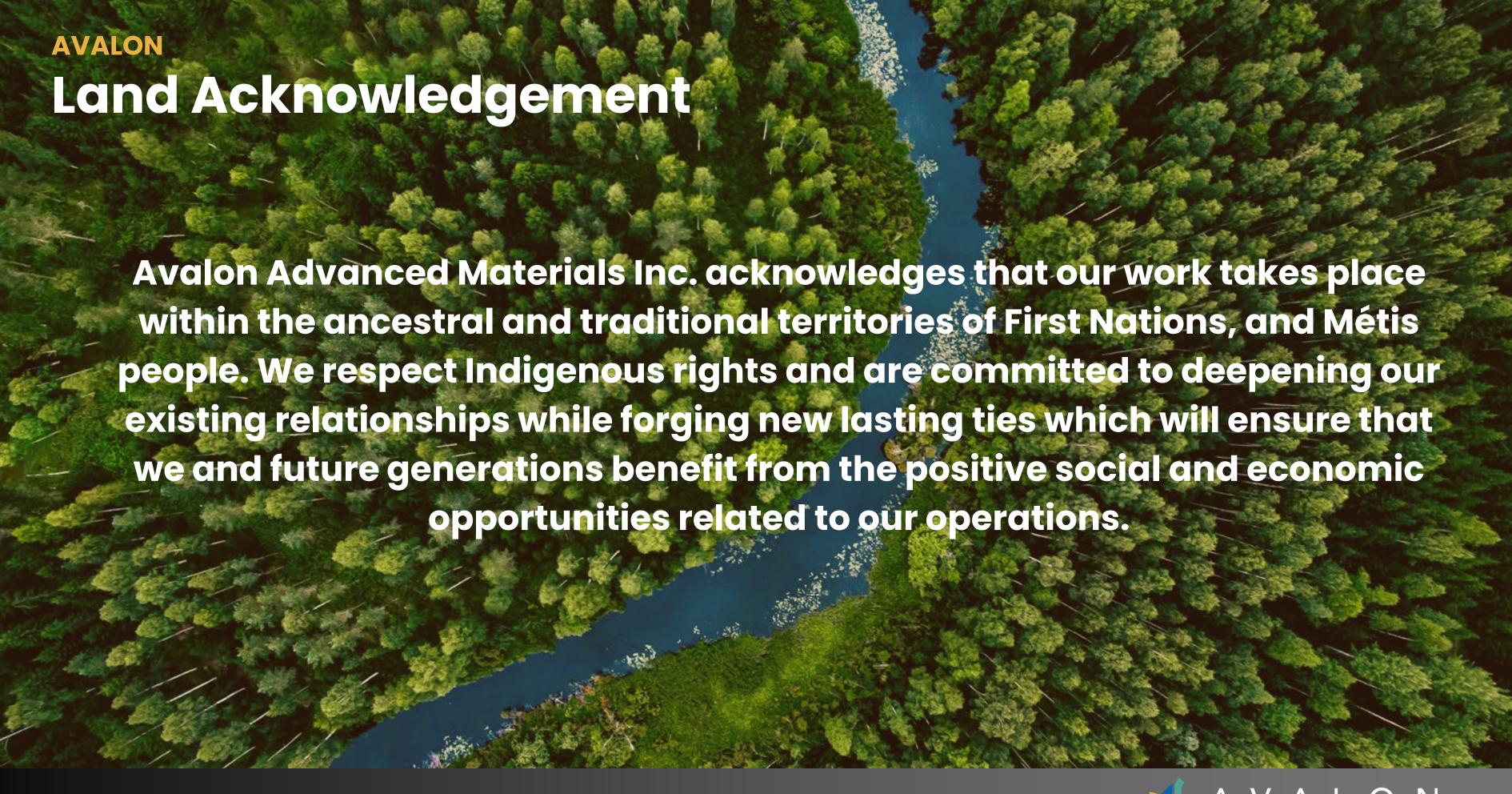
Aims to support the rapidly expanding electric vehicle market by establishing a state-of-the-art lithium hydroxide processing facility in Thunder Bay, Ontario.



Separation Rapids Project

A joint venture between Avalon and SCR-Sibelco NV which aims to commercialize its petalite deposit. Lilypad project focuses on lithium (spod.), cesium, rubidium, and tantalum.









Project 1: Nechalacho Project

Location:

Thor Lake, Northwest Territories

Stage:

DFS 2013 Completed

Mineralization:

- All Light Rare Earth Elements except Promethium (Neodymium, Praseodymium)
- All Heavy Rare Earth Elements
- Transitional Rare Earth Element Yttrium
- Zirconium, Tantalum, Niobium

Key Points:

- 100% interest in resources below 150m above sea level
- Supports industries including nuclear, defense, and communications sector

Project 2: Lake Superior Lithium Inc.

Location:

Thunder Bay, Ontario

Stage:

- o PEA 2024
 - After-Tax NPV (8%) C\$4.1 B
 - After-Tax IRR 48%
 - CAPEX C\$1.3 B

Commodity:

Production of Lithium Hydroxide

Key Points:

- 100% owned land for proposed lithium processing facility
- Existing strategic infrastructure
- MOU with Metso Corp.
- MOU with Qualcomm Technologies Inc.

Project 3: Separation Rapids Ltd.

Location:

Kenora & Fort Hope - Ontario

Stage:

- MRE 2023 Separation Rapids
 - Updated MRE Feb. 2025
- Lilypad: Early-Stage exploration

Mineralization:

- Sep. Rapids Region: lithium as petalite/lepidolite/spodumene
 - Snowbank: Target
- Lilypad Target: Cesium, Tantalum, Rubidium, Spod.

Key Points:

- Resource Expansion
- JV with SCR-Sibelco NV: 60%, Avalon 40%
- Met. and Geotech Studies

Other Projects:

- East Kemptville Tin
- Warren Township **Anorthosite**

• East Kemptville Tin

- Location:
 - Yarmouth, Nova Scotia
- Mineralization:
 - Tin
 - Mineral Resource Estimate

Stage:

■ PEA 2018

Warren Township Anorthosite **Project**

- Location:
 - Timmins, Ontario
- Mineralization:
 - Calcium Feldspar
- Stage:
 - Early Exploration

Key Points:

Divestment Opportunities



AVALON

Asset Locations

- Office Headquarters Toronto, ON
- Lake Superior Lithium Inc. Thunder Bay, ON
- Separation Rapids Ltd. Kenora, ON
- Nechalacho Project Thor Lake, NWT
- East Kemptville Yarmouth, NS
- Warren Township Project Timmins, ON



Project Overview

- Located at Thor Lake, Northwest Territories
- Avalon retains 100% ownership of resources below 150 metres (Basal Zone)
- An unrelated third party owns resources above 150 metres (Upper Zone)
- Supports industries including nuclear, defense, and communications sector
- Early works permits in place



Objective

Update of FS based on new economic considerations.



Funding

Exploring funding options. Submitted application for U.S. Government Funding: D.O.D.



Phase

Strategic Partnership.

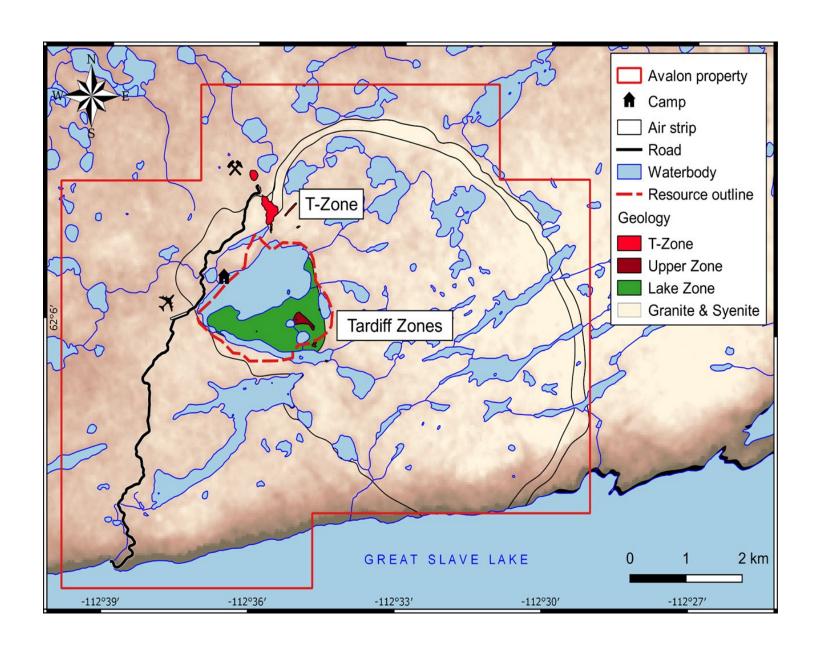


Thor Lake and Regional Infrastructure

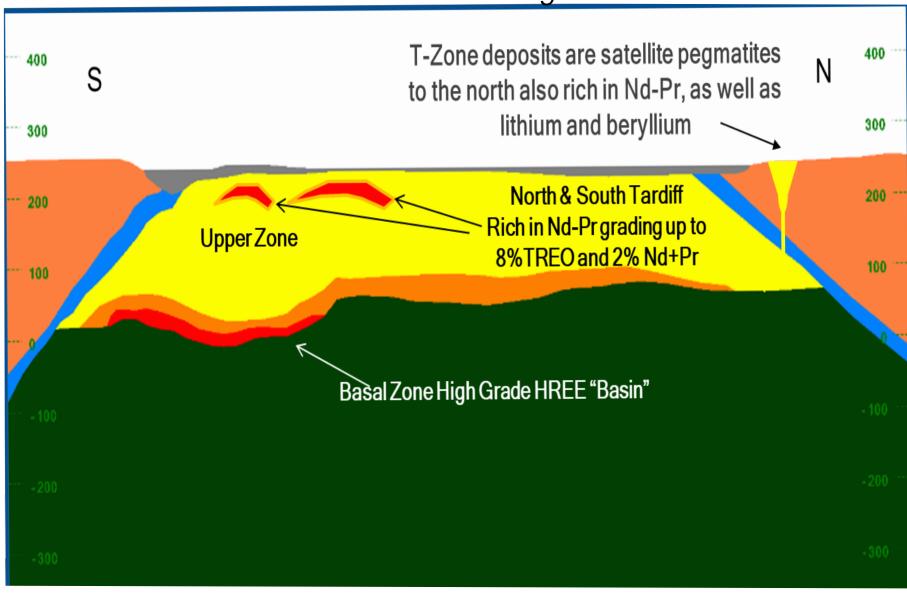




Property Overview



Nechalacho Lake Zone General Geology Crosscut Vertical Cross Section Looking West at 416200E





Mineral Resource Estimate as of August 15, 2013

Category	Zone	Tonnes (million)	TREO (%)	HREO (%)	HREO/ TREO	ZrO2 (%)	Nb2O5 (%)	Ta2O5 (%)
Measured	Basal	12.56	1.71	0.38	22.50	3.20	0.405	0.0404
Indicated	Basal	49.33	1.62	0.35	21.27	3.07	0.405	0.0398
Measured & Indicated	Basal	61.90	1.64	0.35	21.53	3.10	0.405	0.0399
Inferred	Basal	58.16	1.38	0.26	18.89	2.80	0.380	0.0351

Notes:

- 1. CIM definitions were followed for Mineral Resources.
- 2. The Qualified Person for this Mineral Resource estimate is William Mercer, PhD, P.Geo. (Ontario), P. Geo. (NWT), VP, Exploration, Avalon Rare Metals Inc.
- 3. HREO (Heavy Rare Earth Oxides) is the total concentration of: Y2O3, Eu2O3, Gd2O3, Tb4O7, Dy2O3, Ho2O3, Er2O3, Tm2O3, Yb2O3 and Lu2O3.
- 4. TREO (Total Rare Earth Oxides) is HREO plus: La2O3, CeO2, Pr6O11, Nd2O3 and Sm2O3.
- 5. Rare earths were valued at an average net price of US\$62.91/kg, ZrO2 at US\$3.77/kg, Nb2O5 at US\$56/kg, and Ta2O5 at US\$56/kg. Average REO price is net of metallurgical recovery and payable assumptions for contained rare earths, and will vary according to the proportions of individual rare earth elements present. In this case, the proportions of REO as final products were used to calculate the average price.
- 6. The changes in methodology from the November 26, 2012 Resource were the cut-off grade and the interpolation method. The cut-off grade ond the interpolation method. The cut-off grade, expressed as Net Metallurgical Return ("NMR"), increased from US\$320 to US\$345 per tonne. NMR is defined as "Net Metal Return" or the in situ value of all payable metals, net of estimated metallurgical recoveries, and in the case of Nb, Ta and Zr, off-site processing costs. The revised interpolation method utilized the elevation above the lower contact of the Basal Zone to provide better geologic continuity of the ore zone. The effect on overall tonnage and grade is not material.
- 7. ZrO2 refers to Zirconium Oxide, Nb2O5 refers to Niobium Oxide, Ta2O5 refers to Tantalum Oxide.
- 8. Values for HREO/TREO may differ due to rounding.

Source: Avalon Reports on Summer Work Program at the Nechalacho Rare Earth Elements Project and Provides Mineral Resource Update



2013 Feasibility Study: Basal Zone

Project Overview: 20 Year Mine Life

Mining Operations:

- Method: Underground drift and fill/long-hole stoping
- Capacity: 2,000 tons per day (tpd), equivalent to 730,000 tons per year (tpy)

Processing Details:

- Flotation: Produces 130,000 tpy of mineral concentrate
- Hydrometallurgy: Treatment with sulfuric acid bake at Pine Point, yielding:
 - 55,000 tpy of REE concentrate & 112,000 tpy of Enriched Zirconium Concentrate
 (EZC)

Transportation:

• Rail Shipment: REE concentrate shipped to refinery in Geismar, Louisiana - Southern U.S

Production Targets:

• Initial Production: 7,000 tpy of separated REE oxides and EZC (including Nb, Ta, HREE)

Financial Overview:

- Total Capital Expenditure: CAD\$1.58 billion
- Operating Costs: CAD\$265 million/year or \$362/mined tonne of ore (all in)
- Revenue: CAD\$646 million/year or \$885/mined tonne of ore
- After-tax Internal Rate of Return: 19.6%
- After-tax Net Present Value @ 8%: CAD\$1.26 billion

Optimization test work from 2013 to 2015:

- SGS Canada conducted continuous piloting and supportive bench testing of Nechalacho rare earth material on the Alkali Cracking Flow Sheet
- Hatch supporting work

Optimization test work from 2013 to 2015 confirms a technically viable hydrometallurgical process:

- Rare earth flotation concentrate to produce a purified mixed rare earth carbonate concentrate and a zirconium basic sulphate (ZBS) based on mixed alkali cracking, dual-stage hydrochloric acid leaching, use of a multi-stage precipitation/dissolution and solvent extraction for purification
- Purified mixed rare earth carbonate concentrate would be further processed into individual rare earth oxides by a third-party refinery
- Niobium and Tantalum are not recoverable in the current Alkali Cracking Flowsheet
- Cerium removed as impurity



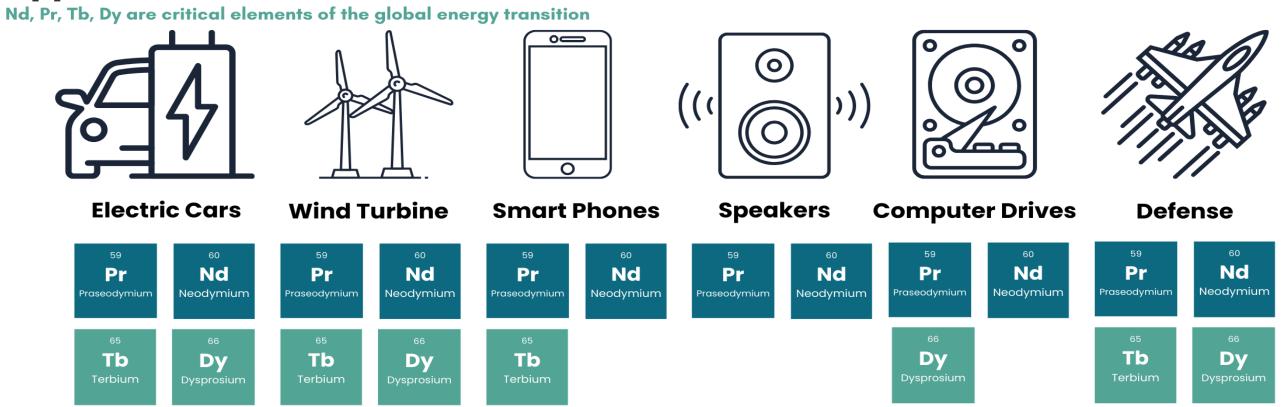
Critical Rare Earths in Technology

- A single US F-35 Lightning II fighter jet contains approximately 920lbs of rare earth elements
- Electric vehicles (EVs) contain as much as 1kg of rare earth elements
- A single 3MW wind turbine can contain up to 2 tons of rare earth permanent magnets
- Each SSN-774 Virginia-class submarine requires approximately 9,200 pounds of rare earth materials

Source: The Oregon Group. https://theoregongroup.com/investment-insights/thewests-pursuit-of-rare-earths-hits-resistance-fromchina/



Applications



Zirconium, Niobium, Tantalum Market Overview

Zirconium (Zr)

Current Market Size:

• The global zirconium market size was US \$1.9 Billion in 2023

Future Projections:

 Expected to reach US \$3.5 Billion by 2032

· Growth Rate:

 CAGR of 6.8% during the period 2024-2032

Applications:

TSX:AVL

- Nuclear Reactors
- Chemical Industry
- Aerospace and defense

https://www.imarcgroup.com/zirconium-market

Niobium (Nb)

Current Market Size:

 The global niobium market was valued at US \$1.9 Billion in 2022

Future Projections:

 Expected to reach US \$3.1 Billion by 2030

Growth Rate:

CAGR of 6.00% from 2023 to 2030

Applications:

- Alloys
- Superconductors

https://www.databridgemarketresearch.com/reports/globalniobium-market

Tantalum (Ta)

Current Market Size:

 The global tantalum market was valued at approximately US \$521.47 million in 2022

Future Projections:

 Predicted to grow to around US \$799 million by 2030

Growth Rate:

CAGR of 5.88% from 2023 to 2030

Applications:

- Capacitors
- Aerospace
- Chemical Industry
- Military defense

https://www.zionmarketresearch.com/report/tantalum-market



Project Overview

- 100% wholly owned subsidiary
- Strategically located in proximity of feed sources
- Site is perfectly positioned to optimize supply chain efficiency
- Close to all main infrastructure
- Partnership with Metso Corp. to leverage sustainable processing technologies
- Collaboration with Qualcomm Technologies Inc.



Aims to support the rapidly expanding electric vehicle market by establishing a state-ofthe-art lithium hydroxide facility in Thunder Bay, Ontario.

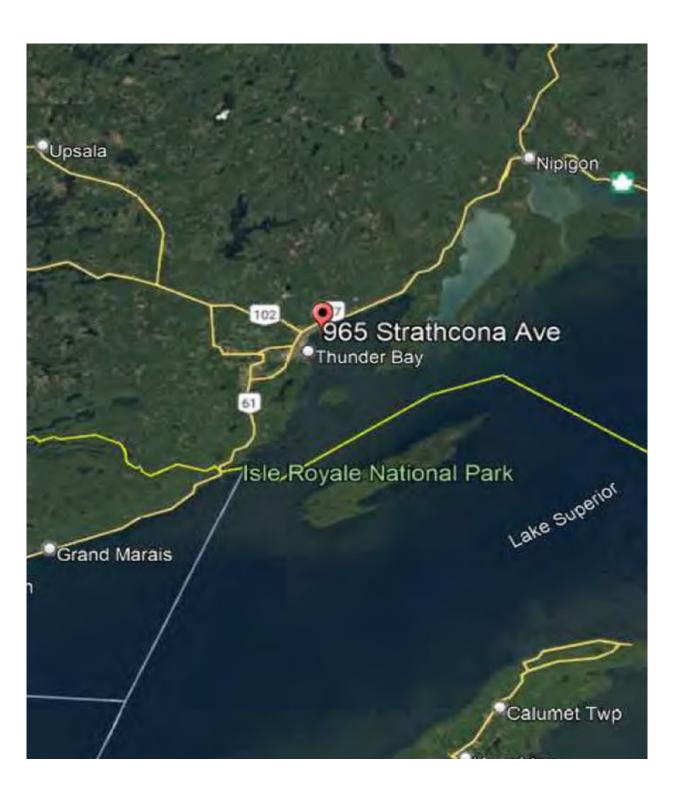


Exploring funding options: equity, loans, grants, and strategic partnerships. Submitted applications for government funding: U.S. D.O.D. and Federal and Ontario programs.



Phase

The first phase of the Project is a 30,000 tpy lithium hydroxide processing facility for which Avalon has recently completed a positive PEA.



PEA Financials (CAD\$)

\$35,360

Base Case LiOH \$/t LiOH (USD \$26,000/t LiOH)

\$1,360

Spodumene conc. \$/t (USD \$1,000/t Spodumene @ 6%)

30,000 tpa

Annual LiOH production

\$4.1B

After-Tax NPV @ 8% Discount

48%

After-Tax IRR

30 Year

Operating Life

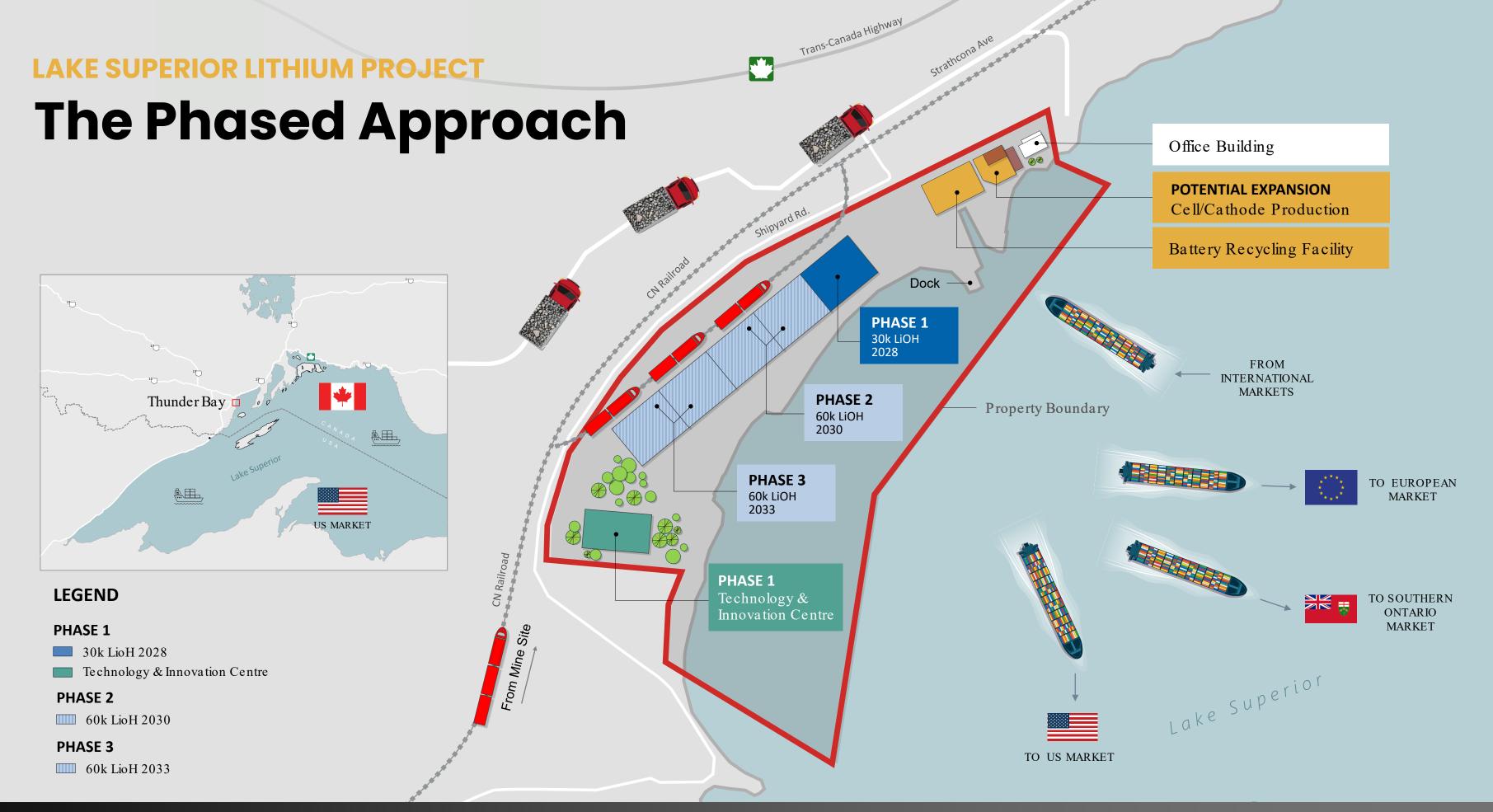
2.5 Year

Payback Period

\$1.3B

CAPEX







Phase 1 Production

Production Capacity:

• The facility is designed to produce 30,000 tons per annum (tpa) of battery-grade lithium hydroxide monohydrate (LHM)

Compact and Energy-Efficient Design:

Metso's advanced technologies will facilitate the development of a lithium hydroxide production plant that is both space-efficient and energy-saving

Expansion Scenario:

• The facility will be designed with expansion capacity to increase its production





Infrastructure

Road Access:

• The site is within 4 km of the Trans-Canada Highway, allowing easy transportation access

Rail Infrastructure:

- A CN Rail line runs north of the property, with a spur entering from the northeast corner
- Rail will be the primary transportation method for spodumene concentrate, reagents, and byproducts

Port Facilities:

- The existing deep-water port on Lake Superior will be refurbished to handle spodumene concentrate shipments
- An adjacent warehouse will be retrofitted with material handling equipment to facilitate offloading from Great Lakes freighters

Spodumene Concentrate Storage:

- Buffer Storage: Facility designed to maintain a steady supply of spodumene concentrate before processing
- Quality Control: Space allocated for sampling and grading different lots prior to feeding

Fresh Water:

 Fresh water will be required for the process; a freshwater intake is envisioned from Lake Superior

Analcime Storage:

- The by-product from the process is dried and transported via conveyor to a storage facility
- Storage facility allows for buffering capacity before on-loading into rail cars for transport off site
- Analcime will be used to manufacture building products and supplies

Office Building and Lab:

- · Located north of the railroad tracks
- Facilities: Offices, kitchen, conference rooms, and restrooms.
- Lab. Use: Tests incoming spodumene and product streams to ensure quality throughout the process

Electrical:

- Electrical power for the project will be provided by the main substation north of the processing site and CN rail line
- The main substation is supplied by 115 kV from the Hydro One power transmission system



3D Rendering Video

<u>Avalon's Thunder Bay Lithium</u> Processing Facility (youtube.com)



Project Cycle Site Purchased PEA Completed Permitting Definitive **Procurement Feasibility Study Production** Construction



Solar Farm

- Avalon plans to explore the feasibility of a solar farm on its industrial site
- Non-productive and unusable industrial land within the landfill site and roof tops of processing facilities could be repurposed for use as a solar farm
- The solar farm would help reduce Avalon's carbon footprint and support the production of ultraclean battery-grade lithium hydroxide powered by renewable energy



Analcime

- Analcime is a zeolite mineral composed of hydrated sodium aluminum silicate and is a byproduct in lithium hydroxide conversion process
- Potential Business Opportunities:
 - 1. Concrete Additive
 - o Enhances strength and durability of concrete
 - Reduces water demand, contributing to more efficient and sustainable construction
 - 2. Water Purification
 - Serves as a zeolite for ion exchange and filtration processes
 - Can be utilized in industrial and municipal water treatment systems



Avalon & Metso Corp. Partnership

Avalon has entered a partnership with Metso Corp. to leverage their groundbreaking sustainable technologies.

Overview:

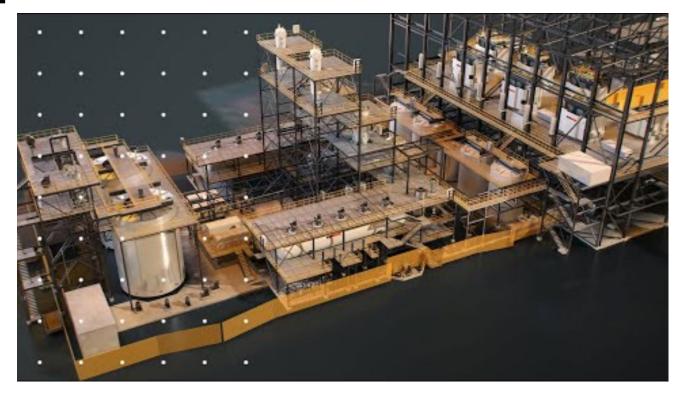
 Metso is a comprehensive solution provider for major lithium operations and backed by the latest technologies and decades of experience of spodumene extraction

The Process:

 Metso has a proprietary technology with a more direct route to convert spodumene to battery-grade lithium hydroxide all within an environmentally sustainable alkaline leaching process completely acid & sulphate free

Key Partnership Highlights:

- Create a testing laboratory for research and development on lithium and clean technology solutions
- Metso to provide testing and engineering equipment procurement and related services to develop and commercialize Avalon's Thunder Bay lithium processing facility
- Avalon and Metso to cooperate on the recycling of used batteries and the refining of battery chemicals for recycle use

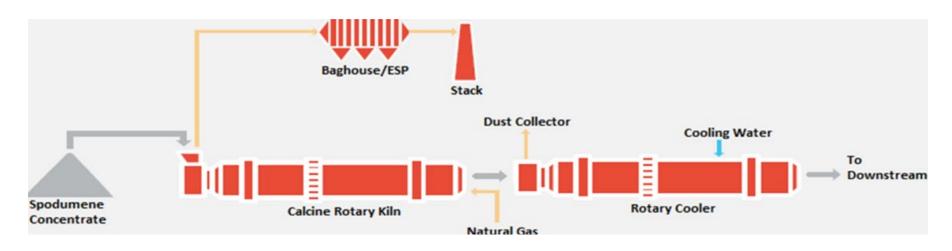




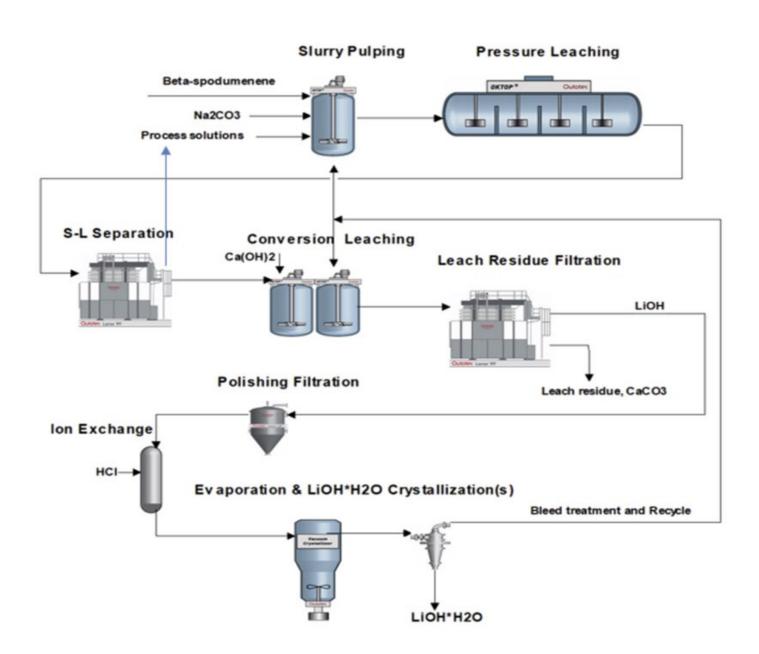


Metso Lithium Hydroxide Processing

• **Spodumene Feed:** Alpha-Spodumene converted to Beta-Spodumene via calcination within a Kiln heating process



- **Lithium Carbonate Production:** from Beta-Spodumene reaction with soda ash in Pressure Leaching
- **Lithium Hydroxide Production:** via Atmospheric Conversion reaction of Lithium carbonate with lime
- Leach Residue Filtration Washing: Separate out lithium hydroxide from inert byproducts sand (analcime) and limestone
- Purification of lithium hydroxide via:
 - Polishing filtration
 - Ion exchange
 - Crystallization
- Final Product: Battery Grade Lithium Hydroxide



Avalon & Qualcomm Collaboration

Avalon Advanced Materials Inc. has signed a memorandum of understanding with Qualcomm Technologies Inc., focusing on enhancing Avalon's Thunder Bay lithium processing facility through advanced digital solutions.

Key Collaboration Highlights:

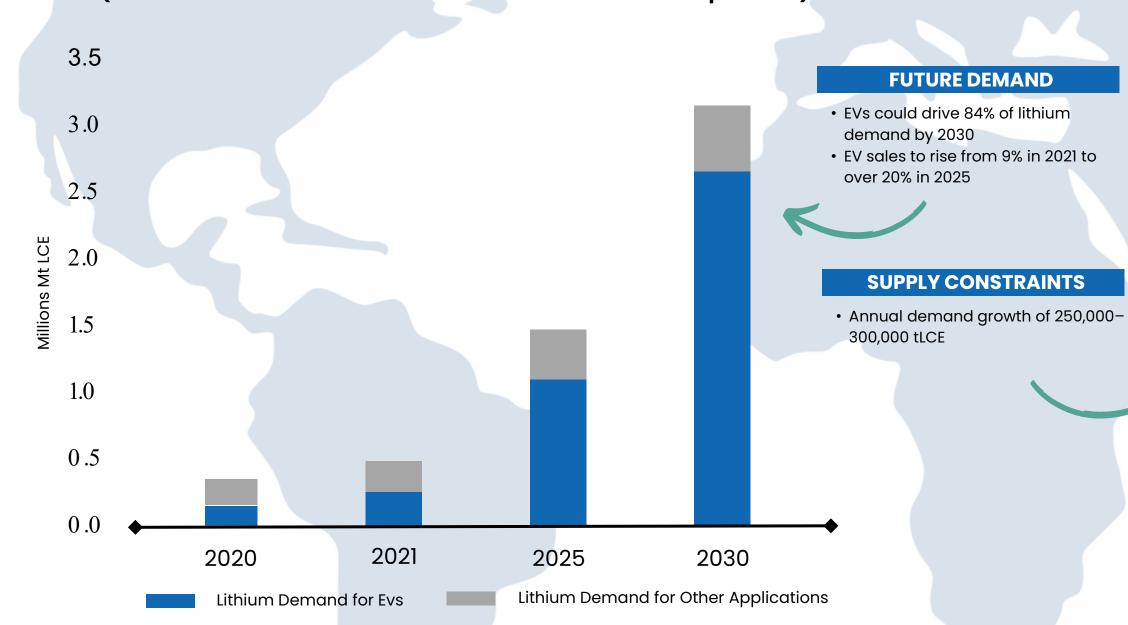
- Utilizing Qualcomm's Industrial & Edge technologies
- Developing a roadmap for Al-enabled Internet-of-Things solutions to enhance connectivity and predictive maintenance
- Strengthening Ontario's role as a tech hub in mining by integrating local SMEs into the digital transformation efforts
- Supporting the modernization of the mining industry to enhance competitiveness, environmental performance, and operational efficiency
- Leveraging Canada's skilled workforce to drive technological advancements and create a sustainable, resilient mining sector





Lithium Demand

Lithium Demand By Application (Millions of Metrics Tons Per Annum of Lithium Carbonate Equivalent)



Sources: Global X ETFs with information derived from Norris, E. (2022, June 27). Building a domestic EV ecosystem: Fastmarkets lithium and battery raw materials 2022. Albermarle.

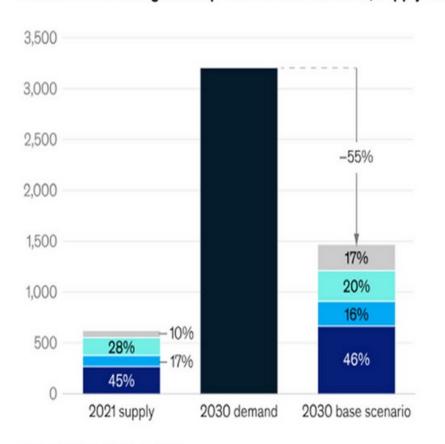
Lithium carbonate global equivalent demand 2030, supply 2021 and 2030 by country, kt

Global

Chile China

Australia

Rest of world



Source: McKinsey MineSpans, 2022

McKinsey & Company

SEPARATION RAPIDS LTD.

Project Overview

- Separation Rapids Ltd. (SRL) is a joint-venture between SCR-Sibelco NV 60% and Avalon 40%
- The JV encompasses three sites in Ontario:
 - Kenora (comprising the Separation Rapids Project and the Snowbank target)
 - Fort Hope (Lilypad Project)



To advance exploration activities at Separation Rapids, Lilypad and Snowbank.



Sibelco has sole funding responsibility for financing exploration on the JV.
Application for: U.S. D.O.D.
Funding for Feasibility Study has been submitted in 2023.



Phase

Updated Mineral Resource Estimate (Feb. 2025).



About Sibelco

Founded in 1872, Sibelco operates in 31 countries with a diverse mineral portfolio. They serve various industries with innovative solutions and high-specification materials.

Their purpose—material solutions advancing life—supports construction, renewable energy, clean water, and advanced technologies.

Committed to sustainability, Sibelco balances economic performance with environmental and social responsibility.



SEPARATION RAPIDS LTD.

Separation Rapids Overview

Overview:

Separation Rapids Region 4,414 Hectares

Location:

70 kilometers north of Kenora, Ontario

Mineral Resource:

- 2025 Mineral Resource Estimate
 - Measured & Indicated: 12.98 Mt @ 1.34% Li2O
 - Inferred: 2.29 Mt @ 1.46% Li2O

Stage:

- PEA
- Commence 2025 exploration program

Goals:

- Increase Mineral Resource base
- Make new discoveries
- Studies (Met./Geotech.)

Description	Classification	Tonnage	Li2O	Contained Li2O	
Description	Classification	(Mt)	(%)	(t)	
	Measured	4.33	1.28	55,282	
Open Pit	Indicated	6.41	1.27	81,147	
	Measured & Indicated	10.73	1.27	136,429	
	Inferred	0.46	0.84	3,817	
	Measured	-	-	-	
Underground	Indicated	2.24	1.64	36,877	
	Measured & Indicated	2.24	1.64	36,877	
	Inferred	1.83	1.62	29,680	
Total	Measured	4.33	1.28	55,282	
	Indicated	8.65	1.36	118,024	
	Measured & Indicated	12.98	1.34	173,306	
	Inferred	2.29	1.46	33,497	

Notes:

- 1. CIM (2014) definitions were followed for Mineral Resources.
- 2. Mineral Resources are reported using a 4.25% Li2O petalite concentrate price assumption of US\$1,000/t with an exchange rate of US\$1 = C\$1.30.
- 3. Open pit Mineral Resources are reported from a block model regularized to 5 m x 3 m x 5 m parent block size at a 0.48% Li₂O cut-off grade (COG) in a Whittle resource shell. The Whittle resource shell and open pit COG are based on a mining cost of C\$5.50/t, a general and administration (G&A) cost of C\$3.50/t, a processing cost of C\$5.50/t, and a recovery of 40%.
- 4. Underground Mineral Resources are reported from a block model with a minimum sub-block size of 1 m within Deswik Stope Optimizer (DSO) resource panels which were generated using a break-even 1.46% Li₂O COG. The underground break-even COG grade is based on a mining cost of C\$120/t, a G&A cost of C\$3.50/t, a processing cost of C\$55.00/t, a recovery of 40%, and an exchange rate of US\$1 = C\$1.30. The DSO resource panels are minimum 20 m by 10 m by 3 m wide.
- 5. Mineral Resources are reported based on a minimum thickness of approximately 3 m.
- 6. Average bulk densities were assigned to the blocks and range between 2.62 t/m³ and 2.66 t/m³ for the lithium pegmatite.
- 7. Numbers may not add due to rounding.
- 8. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.
- 9. Volker Moeller, Ph.D., P.Geo. (ON), Senior Resource Geologist at SLR Consulting (Canada) Ltd., is the designated Qualified Person for this MRE within the meaning of National Instrument 43-101 ("NI 43-101") and has reviewed and verified that the technical information contained herein is accurate and approves of the written disclosure of same. The Qualified Person is not aware of any environmental, permitting, legal, title, taxation, socio-economic, marketing, political, or other relevant factors that could materially affect the MRE.



SEPARATION RAPIDS LTD.

Lilypad Project

Overview:

• The Lilypad Project consists of 14 claims, comprising 166 new claim units or cells, totaling slightly over 3,299 hectares (8,152 acres)

Location:

• Fort Hope, Ontario

Advanced Materials:

- Lithium (Spodumene)
- Tantalum
- Cesium
- Rubidium

Development Potential:

Significant mineral discoveries to the north (ring of fire) have prompted the developing of road access into the area

Stage:

- Exploration
 - Scheduled exploration in H1 2025

Snowbank Target

Overview:

A lithium pegmatite occurring primarily in the ore mineral petalite

Location:

- Kenora, Ontario
- 4 kilometers northwest of Separation Rapids lithium deposit

Advanced Materials:

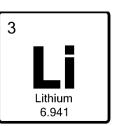
Lithium

Development Potential:

Significantly contributes to the development of Separation Rapids property

Stage:

Exploration



OTHER PROJECTS

East Kemptville Tin Project

Overview:

- Ownership: 100% owned
- Property Size: One contiguous exploration license: over 2,880 acres (1,166 hectares)

Location:

- Approximately 45 km northeast of Yarmouth, Nova Scotia
- Vicinity of the former East Kemptville Tin Mine



Stage:

Exploring divestment potentials

Warren Township Anorthosite Project

Overview:

- Ownership: 100% owned
- Lease: 21-year, 673.7 ha renewable surface and mining rights lease
 - Renewable for further terms

Location:

100 km west of Timmins, Ontario in the Porcupine Mining Division

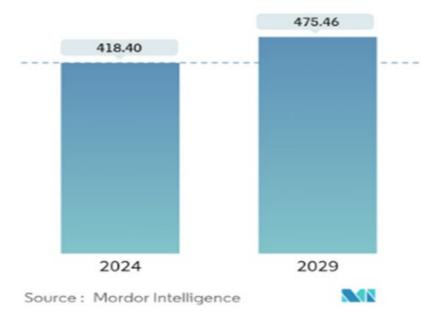


Exploring divestment potentials



Tin Market Market Size in Kilotons

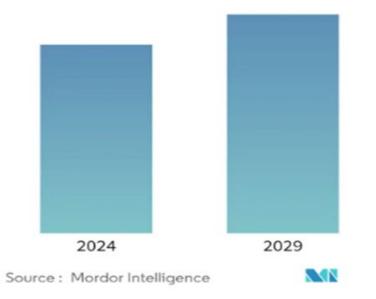
CAGR 2.59%



Feldspathic Minerals Market

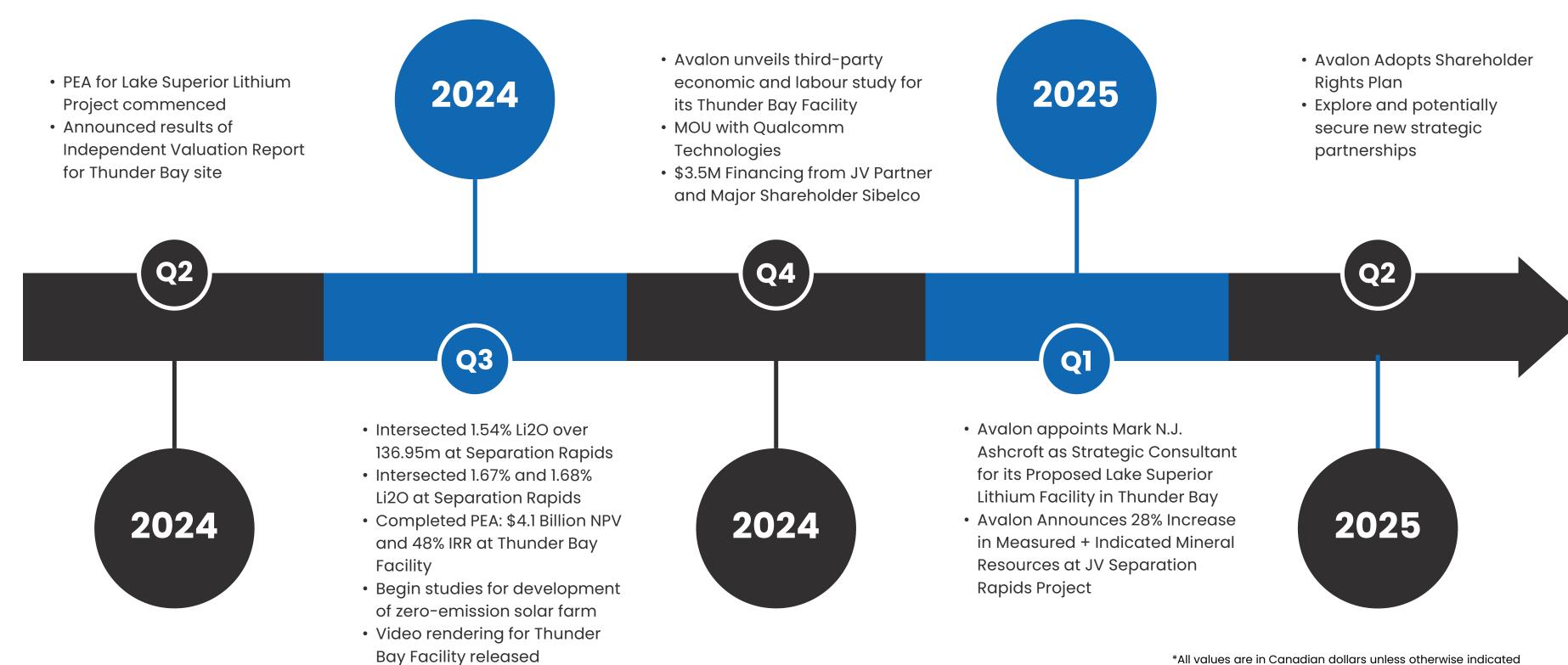
Market Size

CAGR >3%



AVALON OVERVIEW

Key Milestones



*All values are in Canadian dollars unless otherwise indicated



Management & Consultant Team



Scott Monteith, President & CEO

Scott Monteith, CEO of Avalon since May 2023, is an experienced entrepreneur and founder of Monteco Ltd.



Jim Andersen, CFO

Mr. Andersen, a CPA with 30 years in mining, joined Avalon as CFO in 2001 after auditing the company from 1996-2000.



Zeeshan Syed, VP, External Affairs & Partnerships

Mr. Syed, with a Masters from LSE, has 20 years of executive experience. Before Avalon, he worked with the Canadian government, Alberta, and the UN. He is a graduate of the London School of Economics.



Amiel Blajchman, Manager, Sustainability

Amiel Blajchman is an Agrologist with 20 years of experience managing ESG risks for various clients and agencies.



Andrew J. Ramcharan, VP, Corporate Development

Dr. Ramcharan has excelled in Corporate Development, with senior roles at IAMGOLD, SRK Consulting, Sprott Lending, and RCF.



Mark N.J. Ashcroft, Strategic Consultant

Mr. Ashcroft, P.Eng, a sixth-generation miner, has extensive experience in mining operations and finance, having served as President and CEO of Stonegate Agricom and managed a \$51.75 million IPO on the Toronto Stock Exchange.



AVALON OVERVIEW

Board of Directors



Alan Ferry, Chair

Mr. Ferry, with 28 years in mining finance, is Avalon's director since 2000, and chairs the Audit Committee.



Scott Monteith, CEO, Director

Scott Monteith, CEO of Avalon since May 2023, is an experienced entrepreneur and founder of Monteco Ltd.



Timothy Haig, Director

A successful entrepreneur in renewable fuels and cleantech, known for transforming lab ideas into public companies, leading motivated teams, and upholding integrity and ethics.



Flavio Hees, Director

VP of Geology and Mining at Sibelco, oversees over 130 mines, focuses on optimizing assets and compliance. He holds a master's in Geotechnical Engineering.



Alec Kodatsky, Director

Alec Kodatsky, with over 20 years in finance, is Co-President of Forthlane Partners and a former top mining sector analyst. He holds a B.Sc. in Mining Engineering and an MBA.



Naomi Johnson, Director

Ms. Johnson, Titan Mining VP since 2018, joined Avalon's Board in 2019 and chairs the Compensation Committee.



Harvey Yesno, Director

Harvey Yesno, former Chief of Eabametoong First Nation and Grand Chief of Nishnawbe Aski Nation, led NADF and worked with Ontario's Ring of Fire Secretariat.

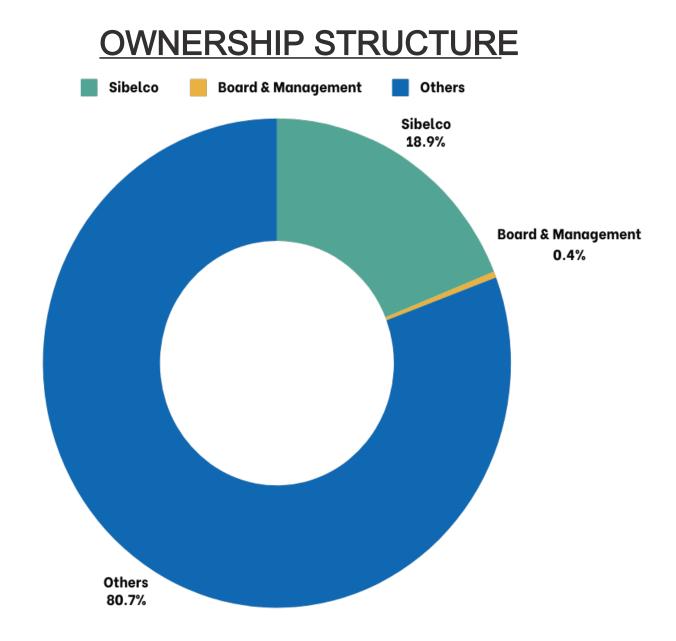


AVALON OVERVIEW

Capital Structure

Description	Value (CAD)		
Ticker Symbol	TSX: AVL		
52 Week High/Low	\$0.10/0.020		
Common Shares Outstanding	614.9M		
RSU & DSU	4.7M		
Stock options	21.7M		
Warrants	36.8M		
Convertible Note Payable (Lind)	70.1M		
Fully Diluted Shares	748.3M		
Market Cap.	18.4M		

As at April 8, 2025



Thank You

Contact Information

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