



CriticalElements
Lithium Corporation



INVESTOR PRESENTATION

High Purity Lithium Spodumene Project

August 29th, 2023

DISCLAIMERS

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Quality Control and Assurance: The scientific and technical content of this presentation was reviewed and approved by the Company's Project Manager, Paul Bonneville, Mining Eng. who is a Qualified Person within the meaning of National Instrument 43-101.

DISCLAIMERS

MARKET AND INDUSTRY DATA: Market and industry data presented throughout this presentation was obtained from third party sources and industry reports, publications, websites and other publicly available information. The Company believes that the market and industry data presented throughout this presentation is accurate as of the date of publication, but there can be no assurance as to the accuracy or completeness thereof. The accuracy and completeness of the market and industry data presented throughout this presentation are not guaranteed and the Company does not make any representation as to the accuracy of such data. Actual outcomes may vary materially from those forecast in such reports or publications, and the prospect for material variation can be expected to increase as the length of the forecast period increases. Although the Company believes it to be reliable as of the date of publication, the Company has not independently verified any of the data from third-party sources referred to in this presentation, analyzed or verified the underlying studies or surveys relied upon or referred to by such sources, or ascertained the underlying market, economic and other assumptions relied upon by such sources. Market and industry data are subject to variations and cannot be verified due to limits on the availability and reliability of data inputs, the voluntary nature of the data gathering process and other limitations and uncertainties inherent in any statistical survey. In addition, certain of these publications, studies and reports were published before COVID-19 and therefore do not reflect any impact of COVID -19 on any specific market of globally.

CAUTIONARY NOTE TO UNITED STATES INVESTORS: Disclosure regarding Mineral Reserve and Mineral Resource estimates included in this presentation were prepared in accordance with Regulation 43-101 respecting Standards of Disclosure for Mineral Projects (“NI 43-101”). This presentation use the terms “Pre-Feasibility Study,” “Feasibility Study,” “Mineral Resource,” “Inferred Mineral Resource,” “Indicated Mineral Resource,” “Measured Mineral Resource,” “Mineral Reserve,” “Probable Mineral Reserve,” and “Proven Mineral Reserve” in connection with the presentation of resources, as each of these terms is defined in accordance with the CIM Definition Standards on Mineral Resources and Reserves adopted by the Canadian Institute of Mining, Metallurgy and Petroleum (“CIM”) Council (the “CIM Definition Standards”), as required by NI 43-101. Unless otherwise indicated, all reserve and resource estimates contained in this presentation have been prepared in accordance with the CIM Definition Standards, as required by NI 43-101. NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. NI 43-101 differs significantly from the disclosure requirements of the U.S. Securities and Exchange Commission (the “SEC”) generally applicable to U.S. companies. For example, the terms “mineral reserve”, “proven mineral reserve”, “probable mineral reserve”, “mineral resource”, “measured mineral resource”, “indicated mineral resource” and “inferred mineral resource” are defined in NI 43-101. These definitions differ from the definitions in the disclosure requirements promulgated by the SEC. Accordingly, information contained in this presentation will not be comparable to similar information made public by U.S. companies reporting pursuant to SEC disclosure requirements.

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Our Vision



Our Vision

- It is Critical Elements Lithium Corporation's vision to become a large, responsible supplier of lithium to the flourishing electric vehicle and energy storage systems industries



The Opportunity

- Our first project, Rose, features high purity spodumene



- Quebec is strategically well-positioned regarding the critical transitioning energy and e-mobility markets in Europe and the United States and boasts excellent infrastructure including low cost and low carbon electricity



- Our cooperative relationship with the Cree Nation of Eastmain, the Grand Council of the Crees (Eeyou Istchee), and the Cree Nation Government has been formalized through the Pikhuutau Agreement signed in July 2019

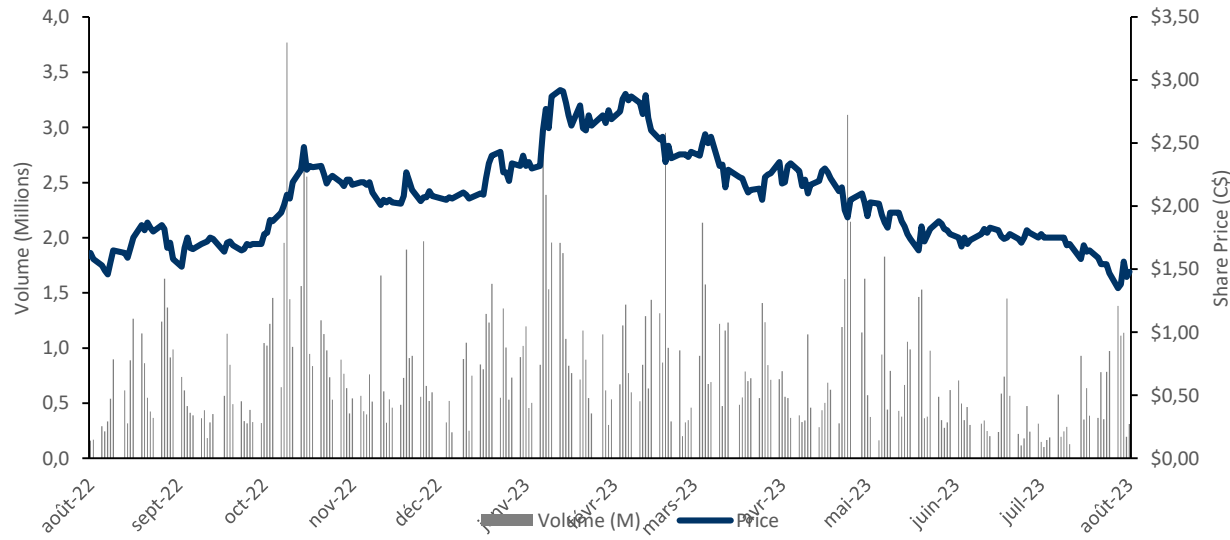


- Provincial Certificate of Authorization approval received November 1st, 2022, Federal approval received August 10, 2021, advancing detailed engineering and financing for the construction of the Rose mine and concentrator, and the engineering studies for a chemical plant for conversion of spodumene concentrate to high quality lithium hydroxide for use in lithium-ion batteries

CORPORATE SNAPSHOT

Critical Elements Lithium's capital structure

Basic Shares	217.8M
Options	3.3M (C\$0.24 - C\$2.29)
Warrants	9.5M (C\$1.75 - C\$2.50)
FD Shares	230.6M
Share Price	C\$1,45
Basic Market Cap	C\$315.8M
Management / Directors	4.50% ownership



Source: S&P Capital IQ.

Market data presented as of the August 25, 2023, market close in Canadian dollars; stock chart data sourced from Refinitiv Eikon.

Exchange: Trading Symbol

TSX-V: CRE

Frankfurt: F12

OTCQX: CRECF

Research Coverage



INVESTMENT HIGHLIGHTS

Permitted, construction-ready North American source of lithium and tantalum

1

High Purity Spodumene Hard Rock Project

- Lithium hydroxide demand is expected to dominate the lithium market
- Rose is one of the highest purity hard rock spodumene deposits with low iron and mica content, and is expected to produce battery-quality lithium hydroxide

2

Government & First Nations Support

- Rose, the Company's flagship feasibility-stage lithium spodumene project, is located in Québec – a top-tier, strategically located, and supportive mining jurisdiction
- Good relations with Québec government, First Nations and local communities

3

Management Team with Relevant Experience

- Developers/operators experienced in de-risking large-scale projects
- Key members include the former Rockwood Lithium CEO and CFO, which sold Rockwood to Albemarle for US\$6.2 billion in January 2015

4

Availability for Strategic Partners

- End users in the EV sector are actively seeking sustainable lithium hydroxide supply; Quebec's grid is low carbon, 93% hydroelectric
- Rose is potentially the only new source of technical grade lithium spodumene
- Evaluating continued interest from blue-chip strategic partners

5

Re-rating Opportunity with Project Advancement

- Mine and spodumene concentrate plant with a robust after-tax NPV8% of \$2.2B, IRR of 65.7% and payback period of 1.8 years
- Meaningful re-rating opportunity based on current market cap to Feasibility Study NPV
- Fundamental upside potential with new discoveries and large exploration mining claim landscape

EXPERIENCED LEADERSHIP TEAM

Proven track record in successfully executing value-added growth opportunities

Former Rockwood Lithium CEO and CFO possess strong lithium development and operational knowledge

- Steffen Haber, President
 - Former CEO and President of Rockwood Lithium
 - Instrumental in the sale of Rockwood to Albemarle for US\$6.2 billion in January 2015
- Marcus Brune, Director and VP, Finance
 - Previously served as CFO of Rockwood Lithium from 2011 up until its acquisition
 - Worked in different executive positions in corporate finance and M&A for Rockwood Holdings and its predecessor companies since 2004

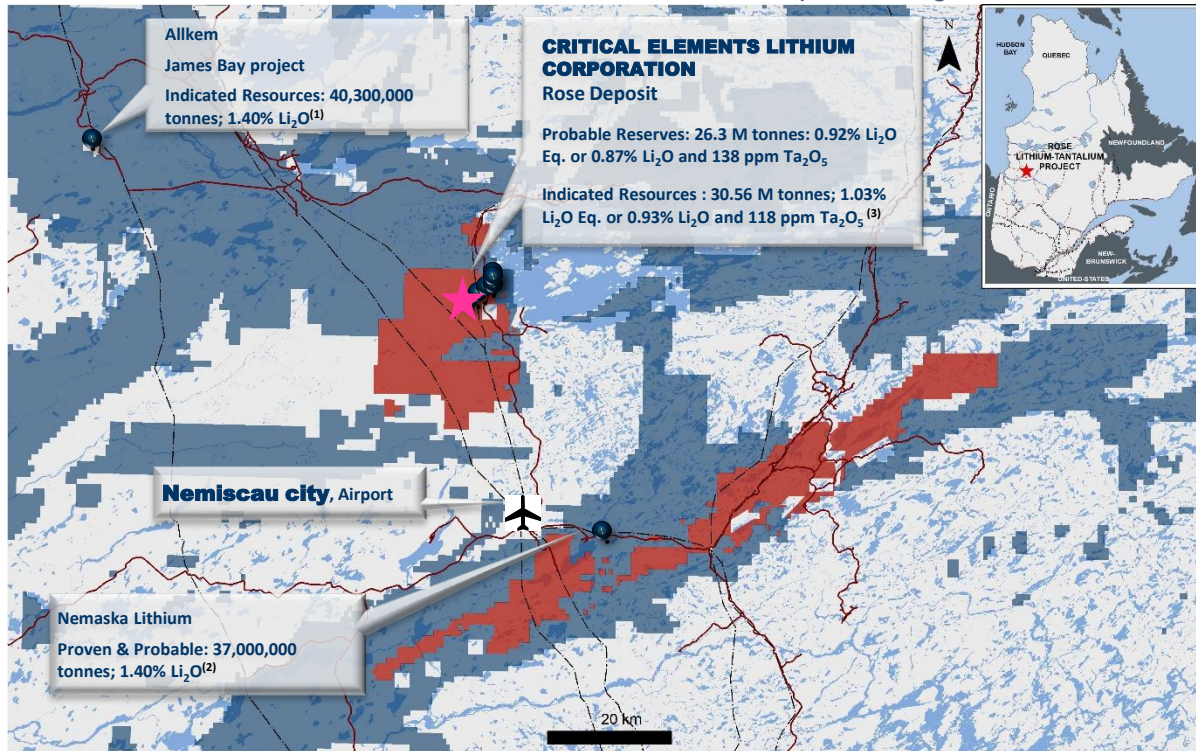
Seasoned developers and mine operators with experience in de-risking large-scale projects from the point of discovery to production

- **Jean-Sébastien Lavallée, CEO**
 - Over 26 years of experience in mining exploration
 - Has served as the CEO of Critical Elements Lithium since 2009
- **Yves Perron, VP Engineering, Construction and reliability**
 - Over 25 years of experience in project management in the industrial sector within major international firms
 - Former VP Engineering and Construction for Stornoway Diamond, VP Engineering and Construction for Mason Graphite VP Engineering and Construction for Loop Industries
- **Hughes Périgny, Senior Project Director**
 - Over 29 years of experience in engineering, construction and project management in the industrial and mining sectors
- **Michel Clément, Senior Project Control Director**
 - Over 25 years years of experience in engineering, construction, project management and control, as well as project risk analysis in the industrial and mining sectors
- **Andy Fortin, Senior Process and Commissioning Director**
 - Over 25 years years of experience in leading continuous improvement of metallurgical processes, asset management, health and safety culture and risk management

EXTENSIVE PORTFOLIO OF TARGETS

A dominant land package with exploration upside

- Located in a premier mining jurisdiction in Québec, Canada
- Excellent access to infrastructure including roads, low-cost power and skilled labor
 - Camp, Airport
 - Power line on site tapping into Quebec's low carbon (93% hydroelectricity), low-cost grid
 - Exploration program underway, including up to 25,000 m of drilling with aim to expand resource at Rose, test priority targets and delineate an initial resource at Lemare
- Good relations with First Nations communities and local and provincial governments



Sources:

(1) Alkem – Feasibility Study, NI 43-101 Technical Report, James Bay Lithium Project, January 2022

(2) Nemaska Lithium Inc. - NI 43-101 Technical Report on the Estimate to Complete for the Whabouchi Lithium Mine and Shawinigan Electrochemical Plant dated August 2019

(3) Critical Elements Lithium Corporation –Rose Lithium-Tantalum project feasibility study press release August 29th, 2023

GOOD RELATIONS WITH FIRST NATIONS

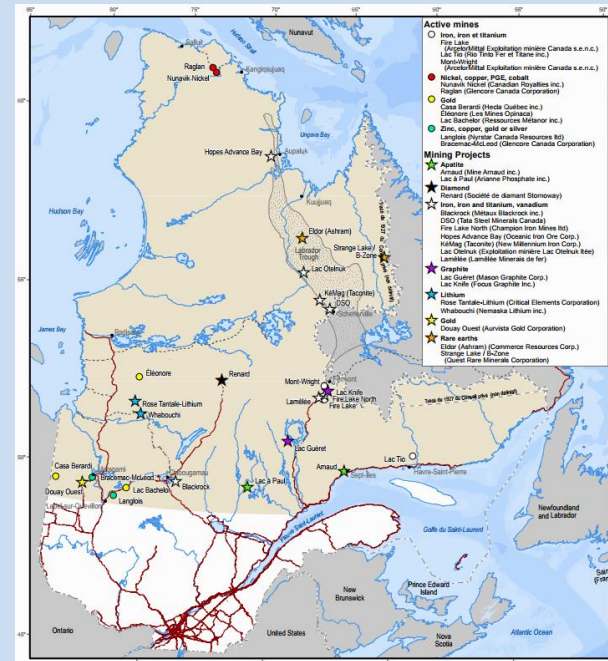
Mining in Québec

- The Pikhuutaa Agreement, signed July 2019, formalized the relationship between the Cree Nation of Eastmain, the Grand Council of the Crees (Eeyou Istchee) and the Cree Nation Government, and Critical Elements Lithium
- Québec is a vast province, covering 1.7 million km², of which only 5% is covered by mining exploration rights
 - As of December 2015, there were over 130k active mining titles in Québec, covering 6.1 million hectares, (only 3.7% of the province)
- Québec is Canada's largest producer of iron concentrate and zinc, the country's second-largest producer of gold, is the dominant source of lithium in Canada, and accounts for 20% of Canada's total mining output
- Consistently ranked in the top quartile by the Fraser Institute for most attractive jurisdictions for mining investment

Mining Projects in Québec (1)(2)(3)

Stage	Base	Precious	Specialty	Total
Producing	8	14	2	24
Development	9	15	12	36
Exploration	98	286	86	470
Total	115	315	100	530

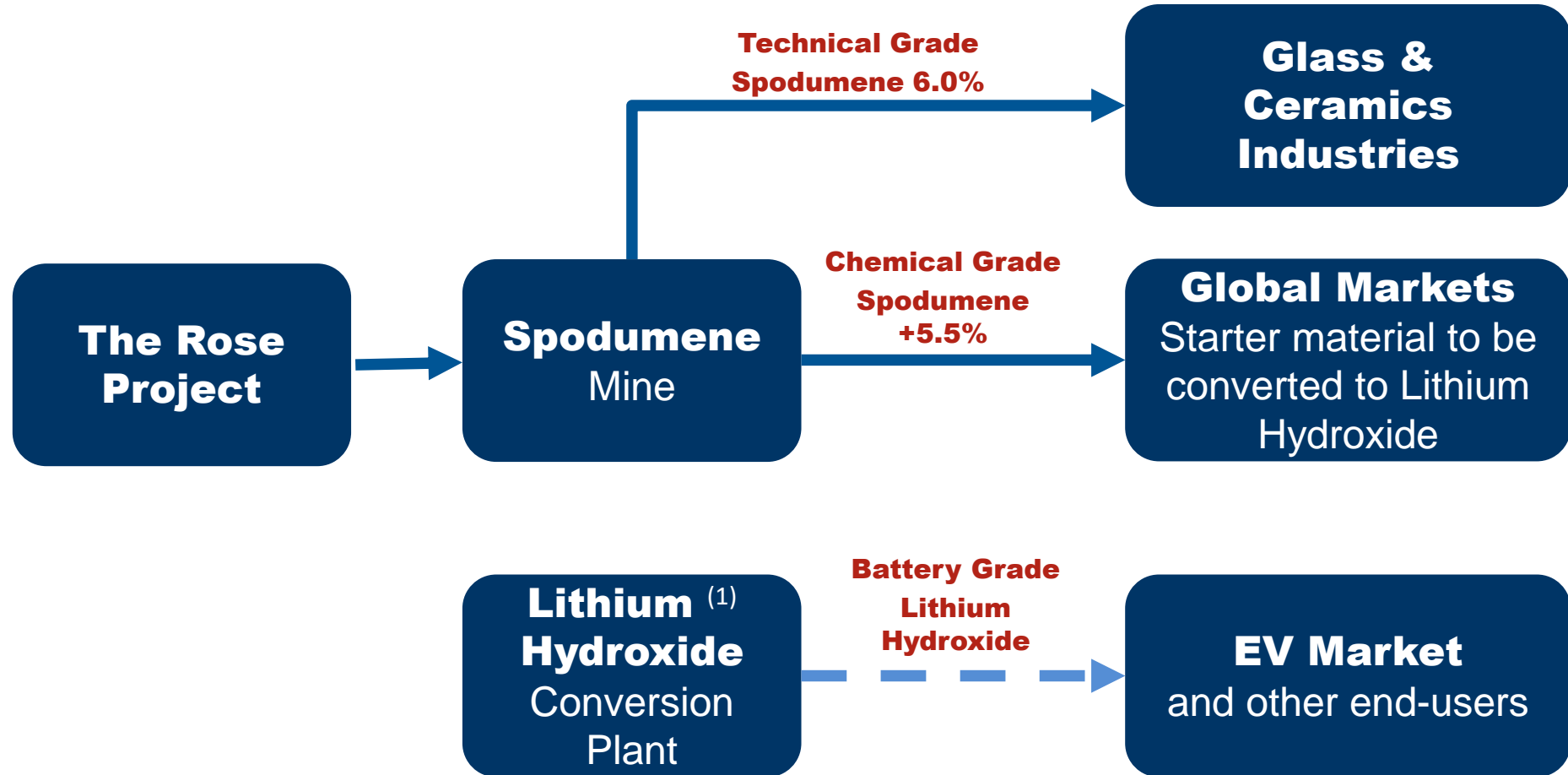
Map of Québec and Plan du Nord





(1) Base metals include Fe, Zn, Ni, Cu and Pb; precious metals include Au, Ag, Pt, Pd; specialty products are all other mined products
 (2) Exploration projects are mining projects at various stages with or without a resource estimate that do not yet have a published economic study
 (3) Development projects are classified as mining projects with a published economic study

THE ROSE PROJECT

A phased approach to supplying the EV market



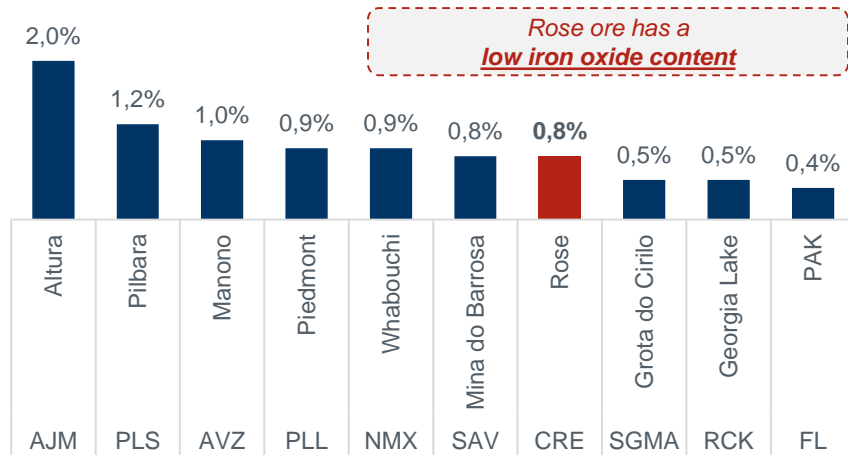
-  Planned progression of Rose Project development
-  Optional opportunity, dependant on market conditions

(1) On August 11th, 2022, the Corporation announced that it had complete an engineering study for a chemical plant to produce high quality lithium hydroxide monohydrate for the electric vehicle and energy storage system battery industries. The study was prepared by Metso Outotec and WSP in Canada (WSP). The Company is not in a position to confirm as of the date hereof if the hydroxide chemical plant will ever be implemented or that it will form part of the Rose Lithium-Tantalum project

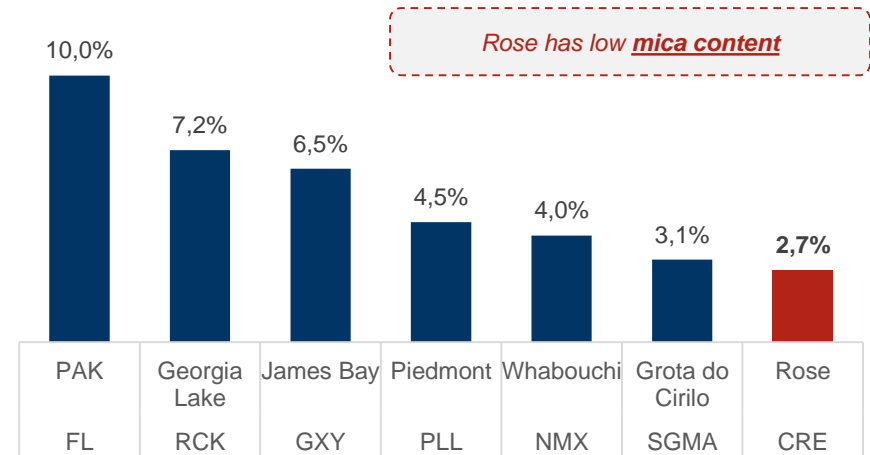
HARD ROCK BENCHMARKING

The Rose Project is notable for its low iron oxide and mica contents

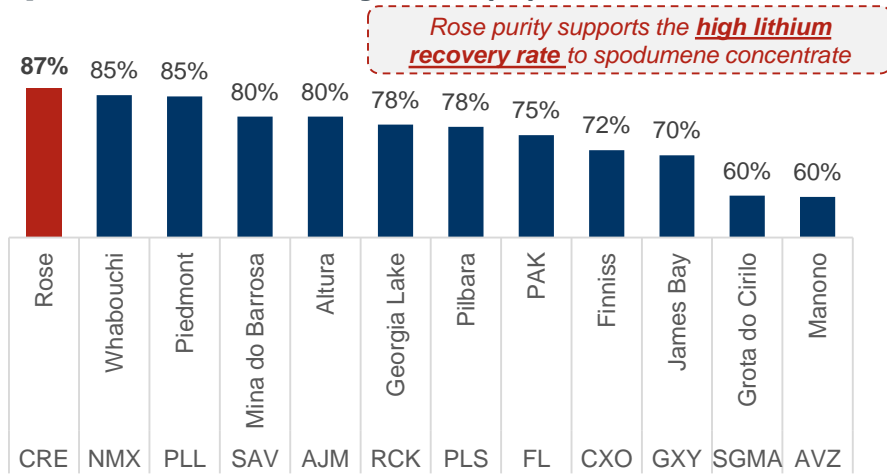
Iron Oxide Content (%) – Ore



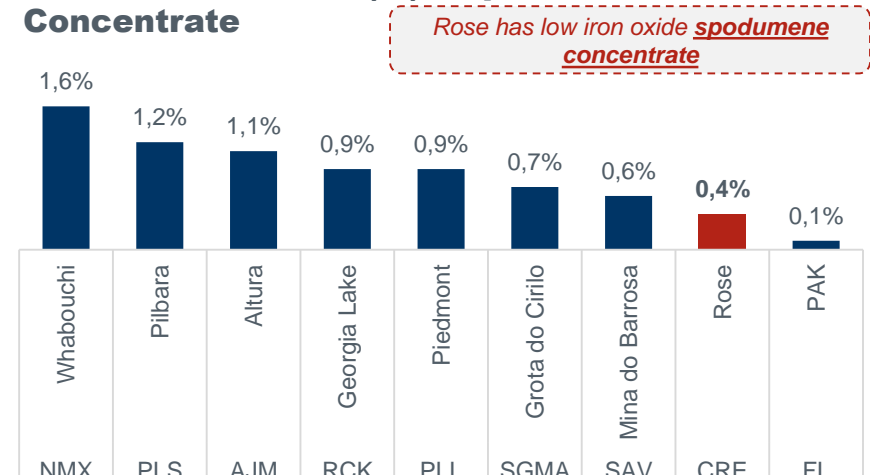
Mica Content (%) – Ore



Spodumene Recovery Rate (%)



Iron Oxide Content (%) – Spodumene Concentrate



Source: Publicly disclosed technical reports

THE ROSE PROJECT: MINE & CONCENTRATOR

Mine and concentrator 2022 feasibility study results

Financial Highlights⁽¹⁾

OPEX Details^{(2) (3)}

17 Year Project Life	US\$461M Average Annual EBITDA	US\$617 / C\$801 Operating Cost (\$/t Li ₂ O Conc.)
US\$2.2B After-Tax NPV _{8%}	65.7% After-Tax IRR	US\$652 / C\$847 Total Operating Cost (\$/t Li ₂ O Conc.) (Incl. SG&A, Royalties)
1.8 Year After-Tax Payback Period	US\$471M Initial CAPEX	US\$587 / C\$762 Total Operating Cost (\$/t Li ₂ O Conc.) (Net Tantalite Credit)

Source: Critical Elements Lithium Corporation –Rose Lithium-Tantalum project feasibility study press release August 29th, 2023

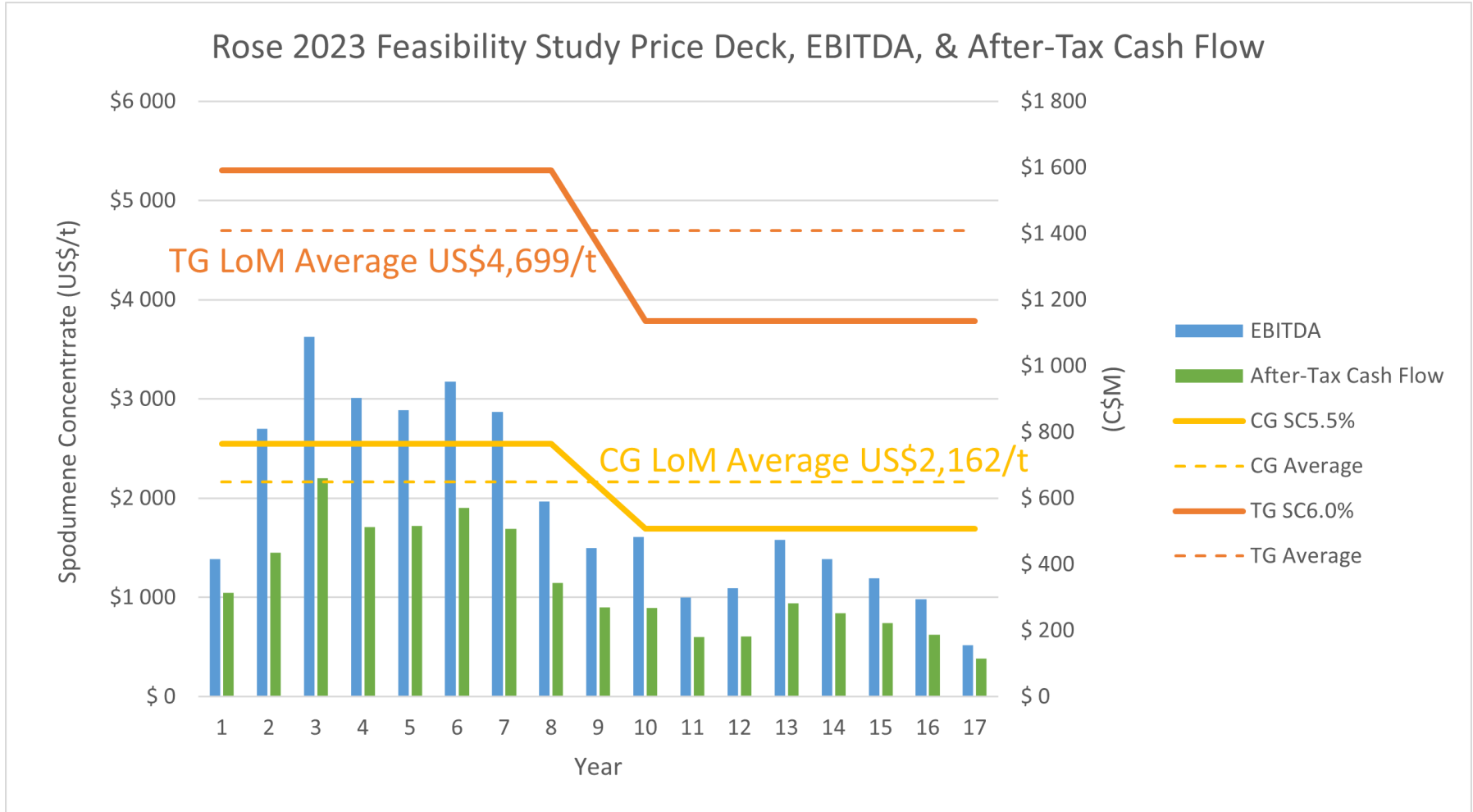
(1) Commodity prices (FOB Port Trois-Rivieres): Technical grade spodumene 6.0% of US\$4,699/t Conc.; chemical grade spodumene 5.5% of US\$2,162/t conc.; tantalum concentrate 20.0% of US\$150/kg contained;

(2) Operating cost includes mining, processing, general & administrative, and transportation costs

(3) Feasibility study assumes exchange rate of US\$0.77/C\$

ROSE PROJECT FEASIBILITY METRICS

Conservative price deck, robust EBITDA and After-Tax Cash Flow



Sources: Critical Elements Lithium Corporation – NI 43-101 Technical Report on Rose Lithium-Tantalum project feasibility study dated July 26, 2022

THE ROSE PROJECT: MINE & CONCENTRATOR

Mine and concentrator 2022 feasibility study results (cont'd)

LOM Average Annual Production Volumes

Technical Grade Spodumene 6.16%	Chemical Grade Spodumene 5.56%	Tantalum Concentrate 20.0%
46,059 t	157,706 t	580 t

LOM Average Recoveries

Technical Grade Spodumene 6.16%	Chemical Grade Spodumene 5.56%	Tantalum Concentrate 20.0%
85%	87%	40%

0.87% Li₂O
138 ppm Ta₂O₅
Average Feed Grade

4,600 t/d (1.6 M t/y)
Mill Throughput

Pilot Plant & Metallurgical Results

- 50 tonne pilot program confirmed feasibility recovery rates and concentrate grade with 6.41% Li₂O for Rose, and 6.56% Li₂O for Rose South
- Variability testing from 0.50% to 1.60% Li₂O through the deposit to test recovery consistency
- Tantalum recoveries average 69.1% in pilot testing

THE ROSE PROJECT: MINE & CONCENTRATOR

CAPEX details ⁽¹⁾

Cost Breakdown - Rose Lithium - Tantalum Project

Item	Initial Capital (C\$M)	Sustaining Capital (C\$M)	Initial Capital (US\$M)	Sustaining Capital (US\$M)
Direct Capital Estimate	365.4	254.0	281.4	195.6
Mine Open Pit	7.6	207.5	5.8	159.8
Stockpiles	7.0	19.2	5.4	14.8
Infrastructure	108.9	14.2	83.8	10.9
Process Plant	166.8	10.4	128.4	8.0
Auxiliary Buildings & Equipment	75.2	2.7	57.9	2.1
Indirect Capital Estimate	189.1	0.5	145.6	0.4
Owner's Costs	77.7	-	59.9	-
Indirect Costs	111.4	0.5	85.8	0.4
Contingency	55.5	25.4	42.7	19.6
Mine Rehabilitation (Incl. Contingency)	-	21.7	-	16.7
Mine Rehabilitation Bond & Costs	1.2	7.2	0.9	5.6
Total Capital Estimate	611.2	308.9	470.6	237.8

THE ROSE PROJECT: MINE & CONCENTRATOR

OPEX details ⁽¹⁾

Operating costs per tonne processed

Mining (\$4.23 per tonne)
Processing
G&A
Transportation (FOB Port)

C\$105.59

\$35.13
\$27.00
\$20.70
\$22.76

Operating costs per tonne of concentrate

Mining
Processing
General & Administration
Transportation
Total Operating Costs
SG&A
Royalties
Total Operating Costs (w. SG&A & Royalties)
Less Tantalite Credit
Total Operating Costs (after tantalite credit)

**C\$/t Li₂O
Concentrate**

801

266
205
157
173
801
10
37
847
85
762

**US\$/t Li₂O
Concentrate**

617

205
158
121
133
617
8
28
652
66
587

UPCOMING CATALYSTS

Gaining project momentum to drive shareholder value



Experienced Operational Team

- Expanded operational team with talented members that will advance Rose through construction



Environmental Impact Study Filing

- Submitted the Rose EIS in August 2017, which was approved by the Federal Minister on August 2021



Feasibility Study

- Positive feasibility study results in August 2023 with an after-tax 8% NPV of US2.2B and an IRR of 65.7%



Lithium Carbonate & Hydroxide Pilot Plants ⁽¹⁾

- Successfully completed lithium carbonate pilot plant in May 2017 and lithium hydroxide pilot plant in October 2018



Building Good Relationships with First Nations

- Signed an Impact and Benefit Agreement with the Cree Nation of Eastmain and Cree Nation Government in July 2019



Expansive 25,000 Metre Exploration Drilling Campaign

- Initiated to expand main Rose deposit and delineate an initial Mineral Resource Estimate at the Lemare Lithium project



Approval of Rehabilitation and Restoration Plan for Rose

- Received from Québec Minister of Energy and Natural Resources – a prerequisite to the granting of the mining lease



Completion of a positive engineering study for Lithium Hydroxide monohydrate plant

- Critical Elements aims to maintain it's flexibility until strategic partner is in place



Rose Quebec Certificate of Authorization received - Projected start construction at Rose 2023

- Certificate of Authorization approval received from Provincial Minister of Environment of Quebec on November 1st 2022



Evaluating Potential Strategic Partners

- Continues to evaluate ongoing interest from global strategic partners that seek to accelerate Rose into production



Final Investment and Construction Decision

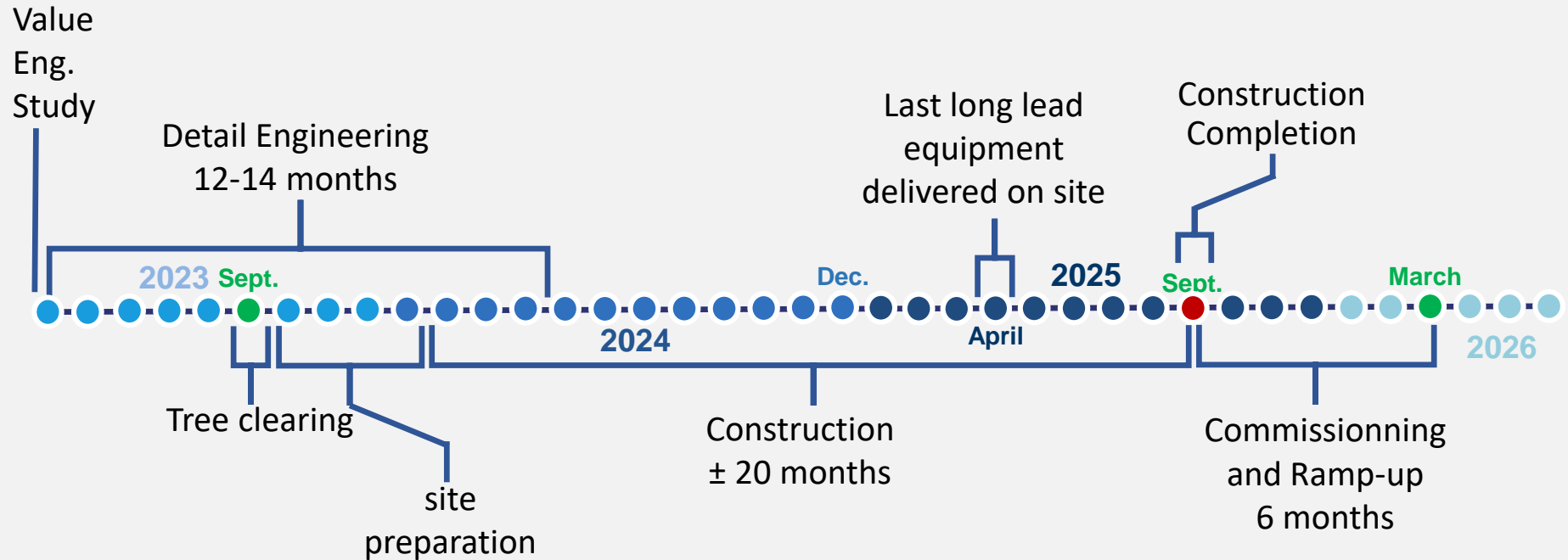
- Critical Elements Lithium is aiming to achieve first production of spodumene at Rose in 2026

(1) On August 11th, 2022, the Corporation announced that it had complete an engineering study for a chemical plant to produce high quality lithium hydroxide monohydrate for the electric vehicle and energy storage system battery industries. The study was prepared by Metso Outotec and WSP in Canada (WSP). The Company is not in a position to confirm as of the date hereof if the hydroxide chemical plant will ever be implemented or that it will form part of the Rose Lithium-Tantalum project

ILLUSTRATIVE TIMELINE TO PRODUCTION (1)

Project Schedule, clear path to construction and commissioning

Assumption : Financing Completed by Sept. 2023



(1) Completion of the activities on the timeline herein are estimates made by management based upon their current assumptions. This page contains “forward-looking information” and readers are referred to the “Disclosure” statement in this Presentation. Risks include, but are not limited to, receipt of necessary permits, successful results from earlier activities, the availability of the necessary financing, etc.

PROJECT CAPEX FUNDING SOLUTIONS

Targeting strategic partnerships and low-cost financing packages

- With the Rose Certificate of Authorization now in place, the Company's near-term focus is on ordering long-lead items and securing financing with first production targeted for 2026
- Critical Elements Lithium is contemplating various project capex funding solutions for the development and construction of Rose
- The funding solutions being considered by the Company include:

Strategic
Partnership

Offtake

Joint
Venture

Debt

Equity

- Critical Elements Lithium continues to work closely with its financial advisor, Cantor Fitzgerald, to evaluate ongoing interest from potential capital providers and strategic partners

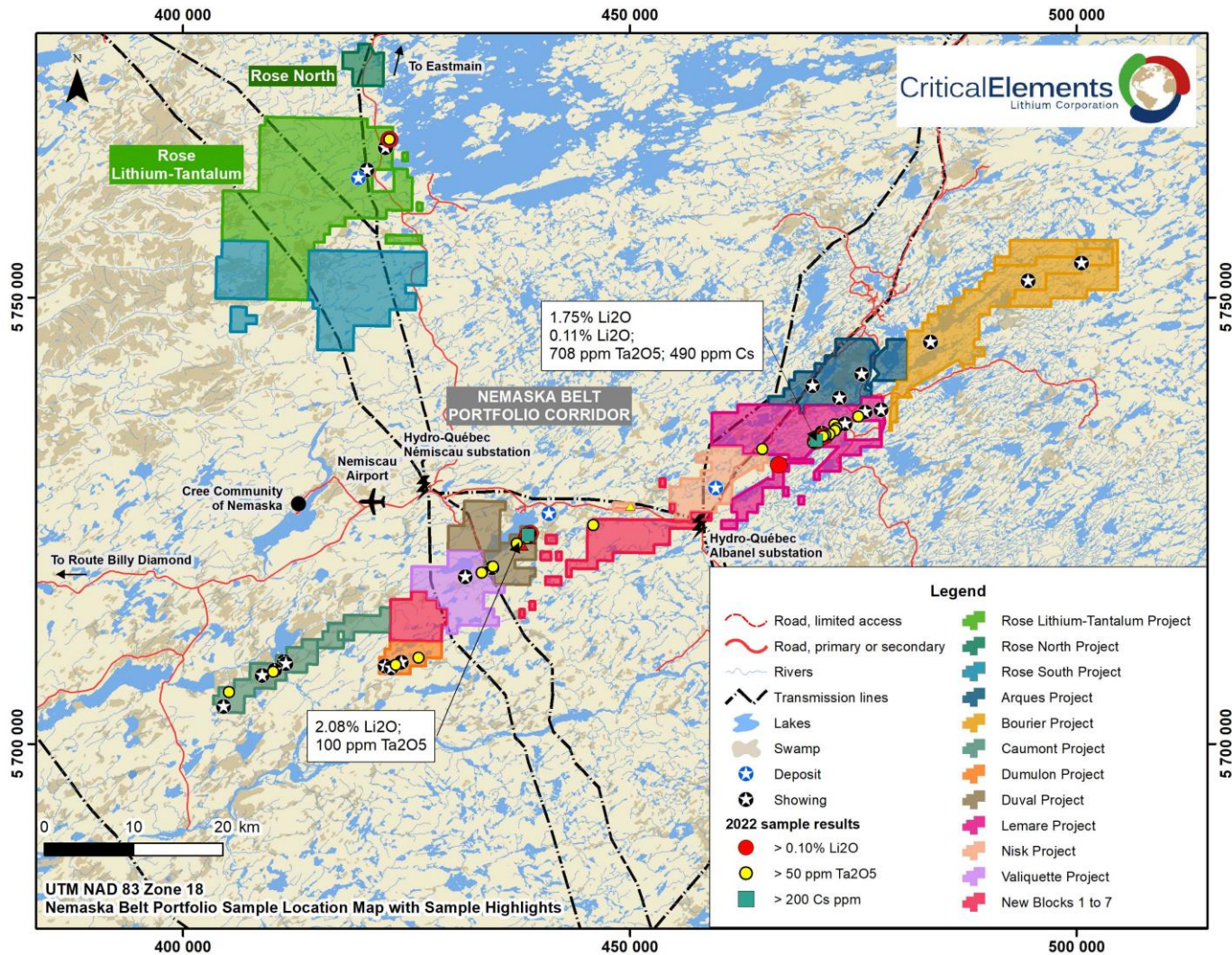
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EXPLORATION

EXTENSIVE PORTFOLIO OF TARGETS

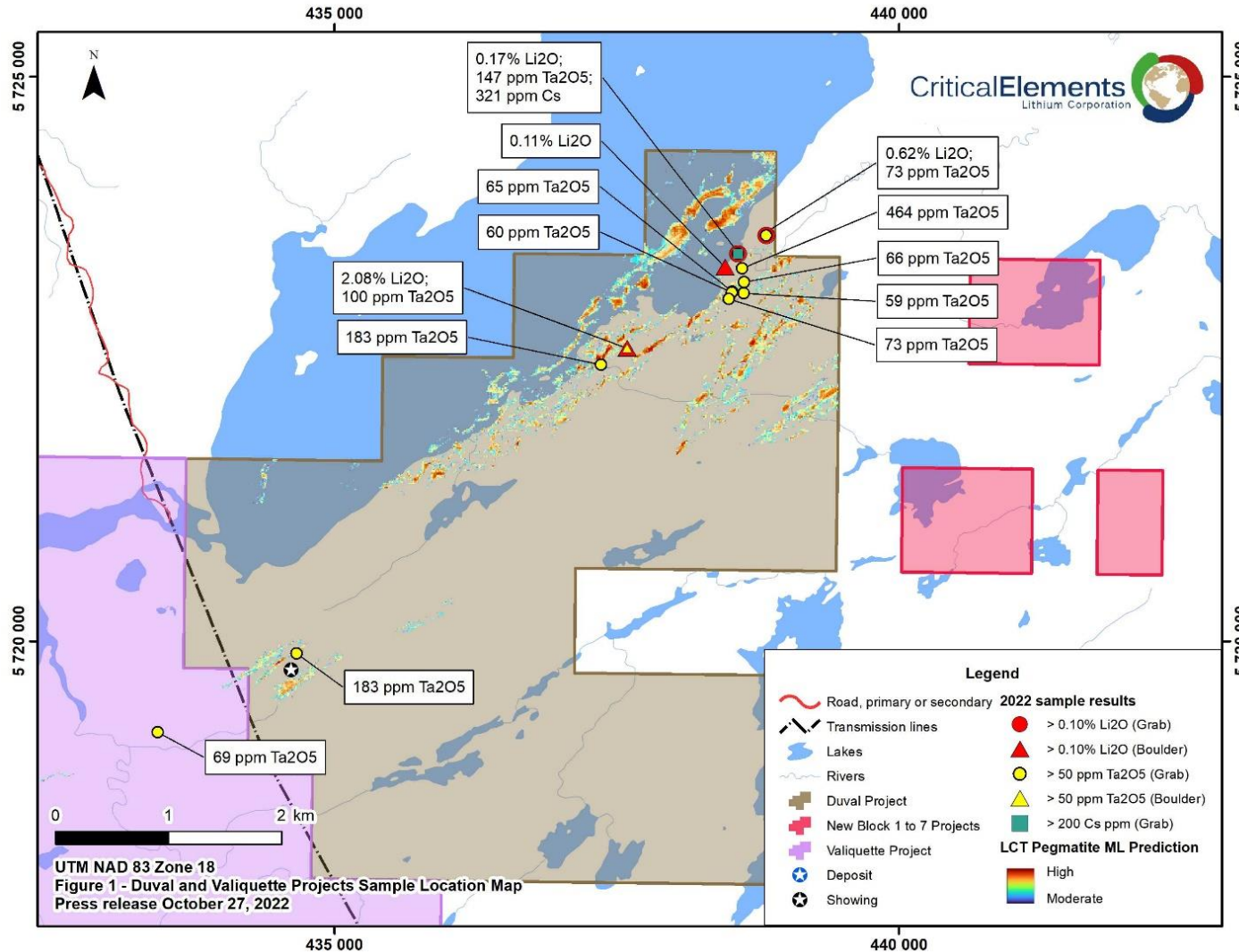
Nemaska Belt Portfolio Sample Location Map with Sample Highlights



Sources:
Press release October 27th 2022

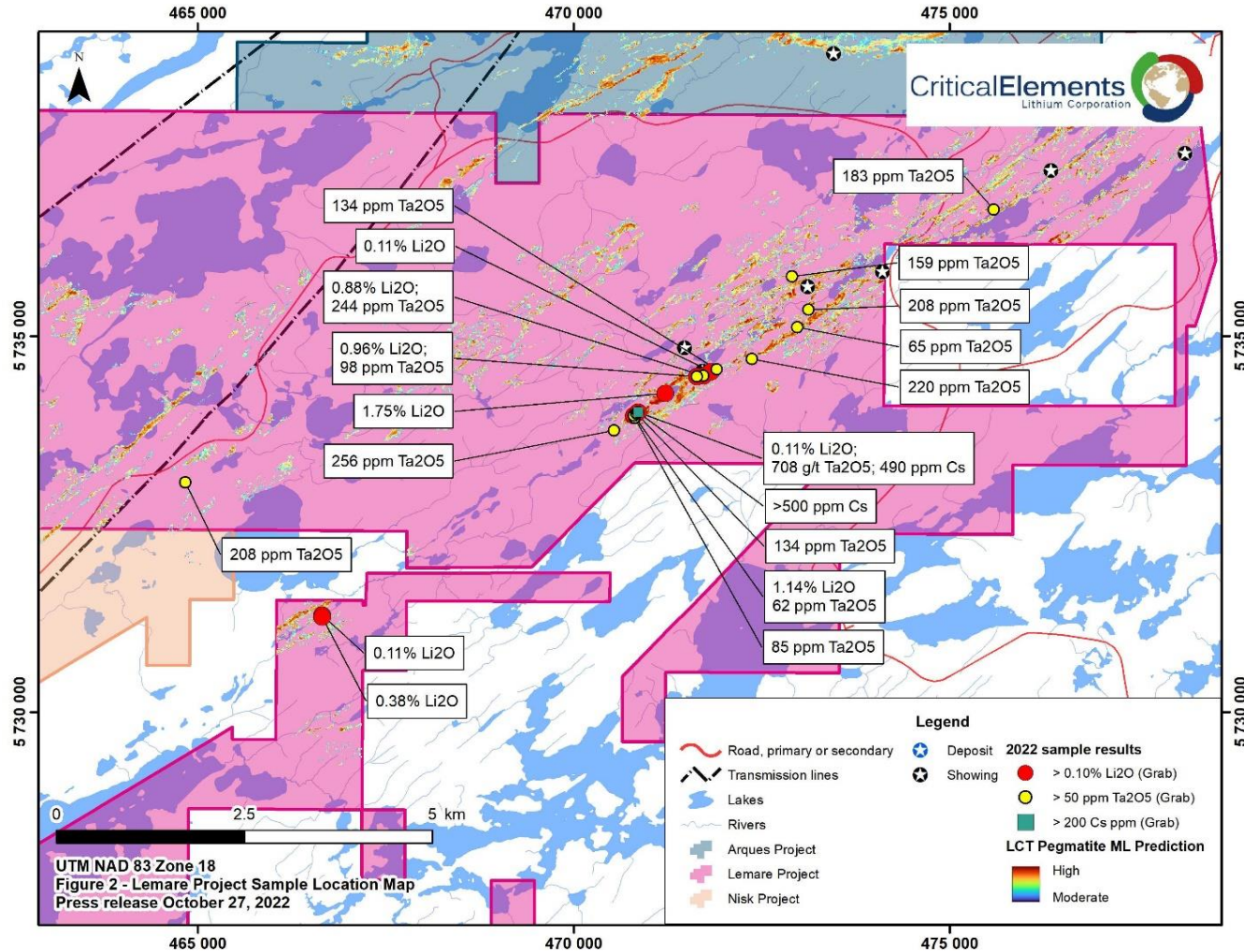
EXTENSIVE PORTFOLIO OF TARGETS

Duval and Valiquette Projects Sample location map



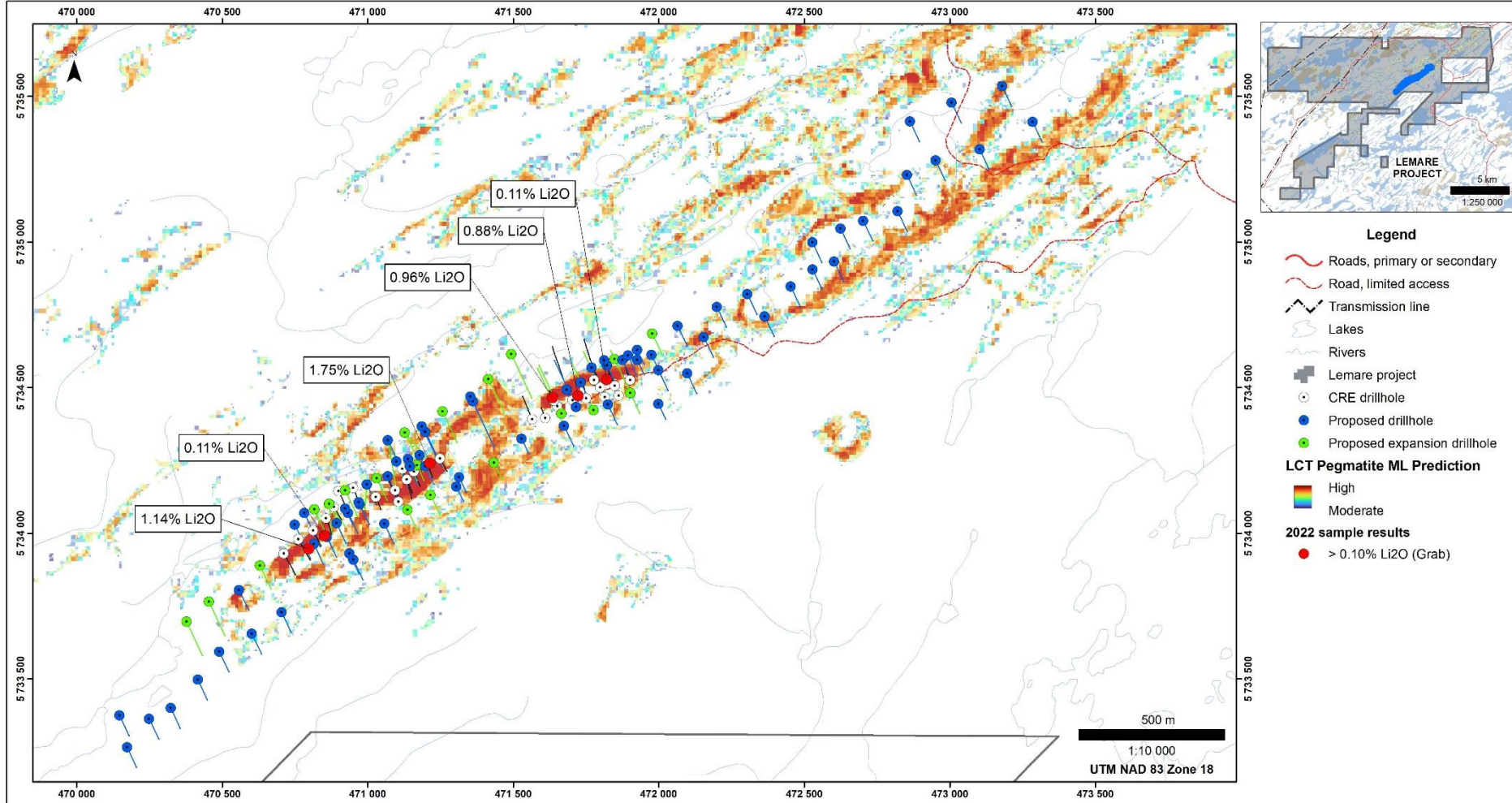
EXTENSIVE PORTFOLIO OF TARGETS

Lemare Project Sample location map



GOLDSPOT TARGETING

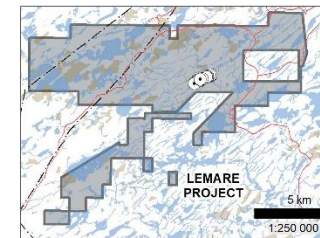
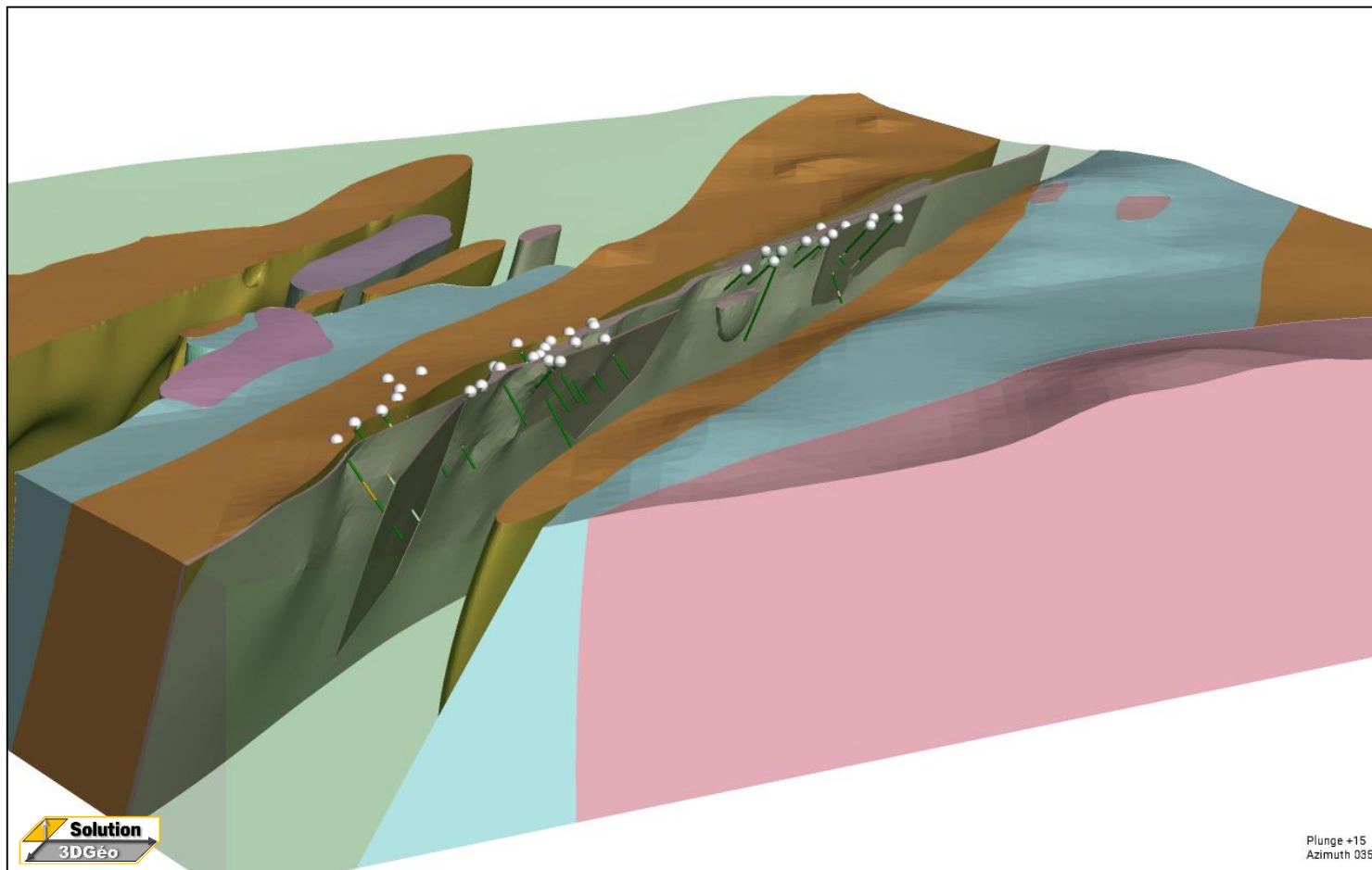
Plan View – LCT Pegmatite ML Prediction




















(1) Grab samples results, Press release october 27th 2022

2016 – 2017 DRILLING PROGRAMS

Isometric View – Looking NNE – Geological Interpretation



Legend

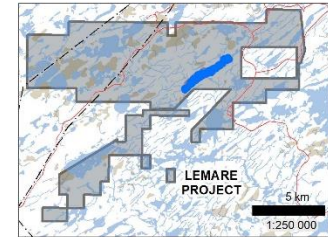
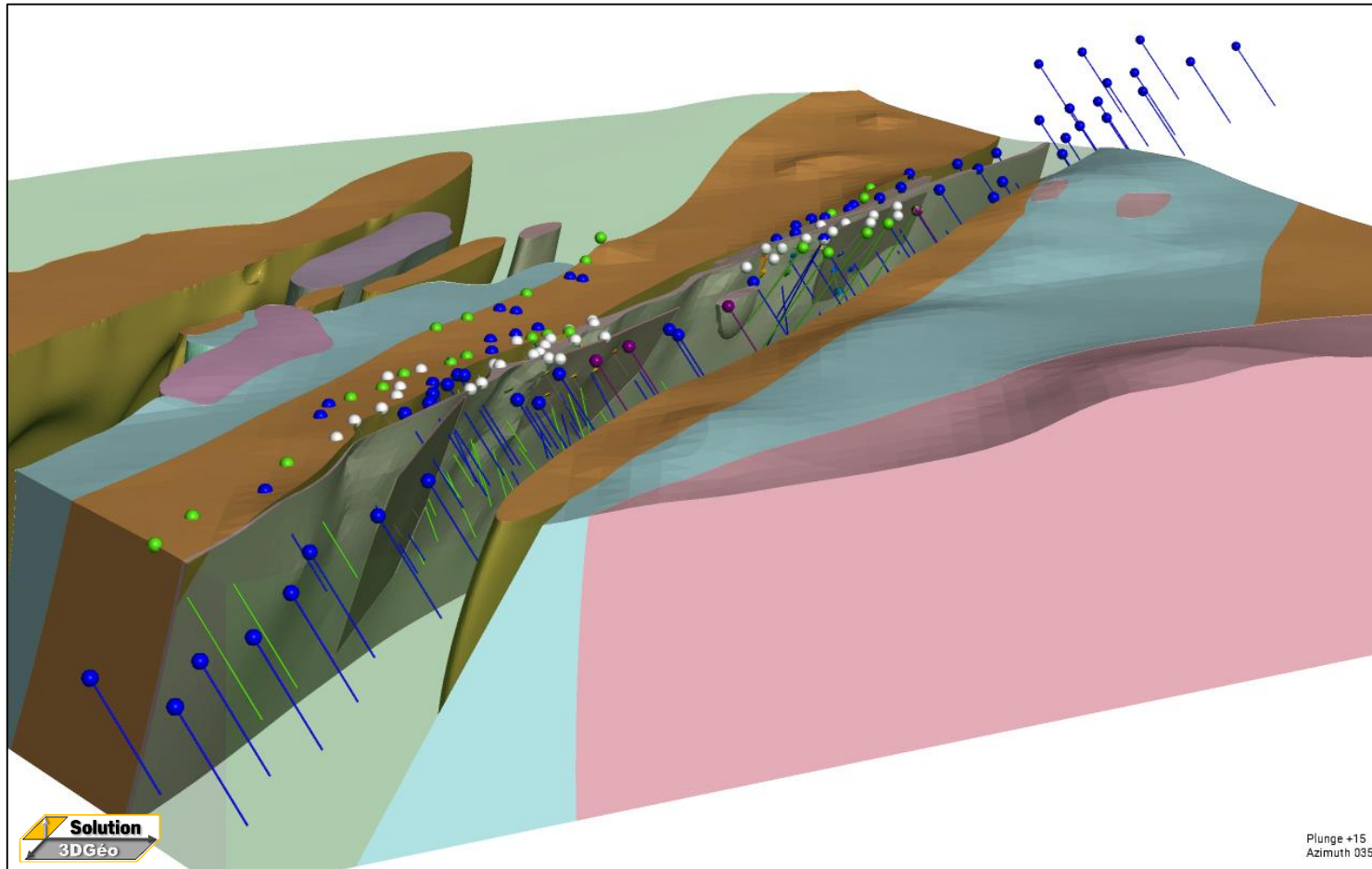
-  Roads, primary or secondary
 -  Road, limited access
 -  Transmission line
 -  Lakes
 -  Rivers
 -  Lemare project
 -  CRE drillhole
- Geological Interpretation**
-  Granodiorite
 -  Pegmatite
 -  Tonalite
 -  Hornblende
 -  Peridotite
 -  Paragneiss
 -  Quartzite
 -  Wacke
 -  Iron formation
 -  Basalt

Solution
3DGéo

Plunge +15
Azimuth 035

2023 DRILLING PROGRAM

Isometric View – Looking NNE – Pegmatite Zones Model



Legend

-  Roads, primary or secondary
-  Road, limited access
-  Transmission line
-  Lakes
-  Rivers
-  Lemare project
-  CRE drillhole
-  Proposed drillhole
-  Proposed expansion drillhole
-  Proposed expansion drillhole

Geological Interpretation

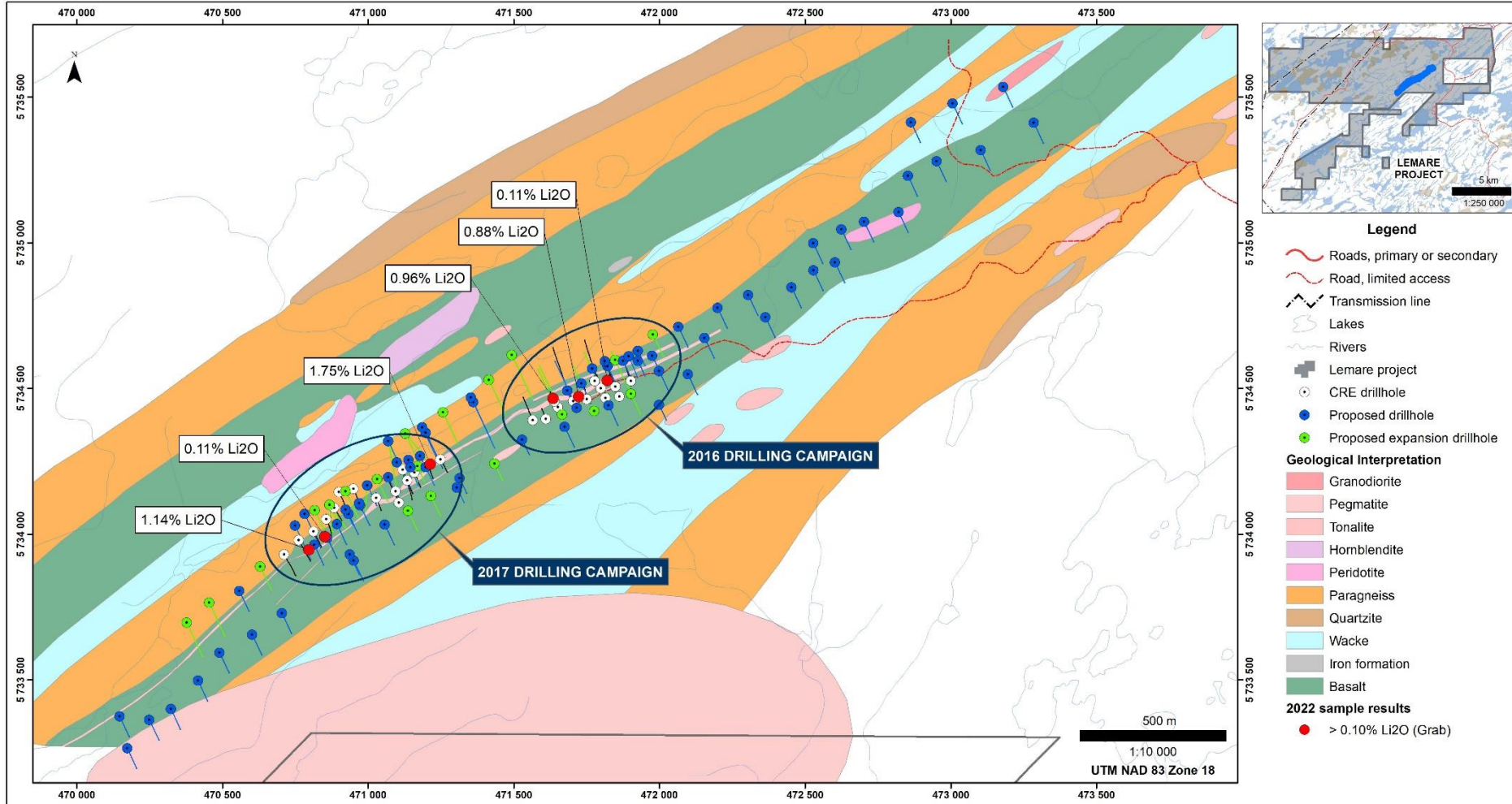
-  Granodiorite
-  Pegmatite
-  Tonalite
-  Hornblende
-  Peridotite
-  Paragneiss
-  Quartzite
-  Wacke
-  Iron formation
-  Basalt

Solution
3DGéo

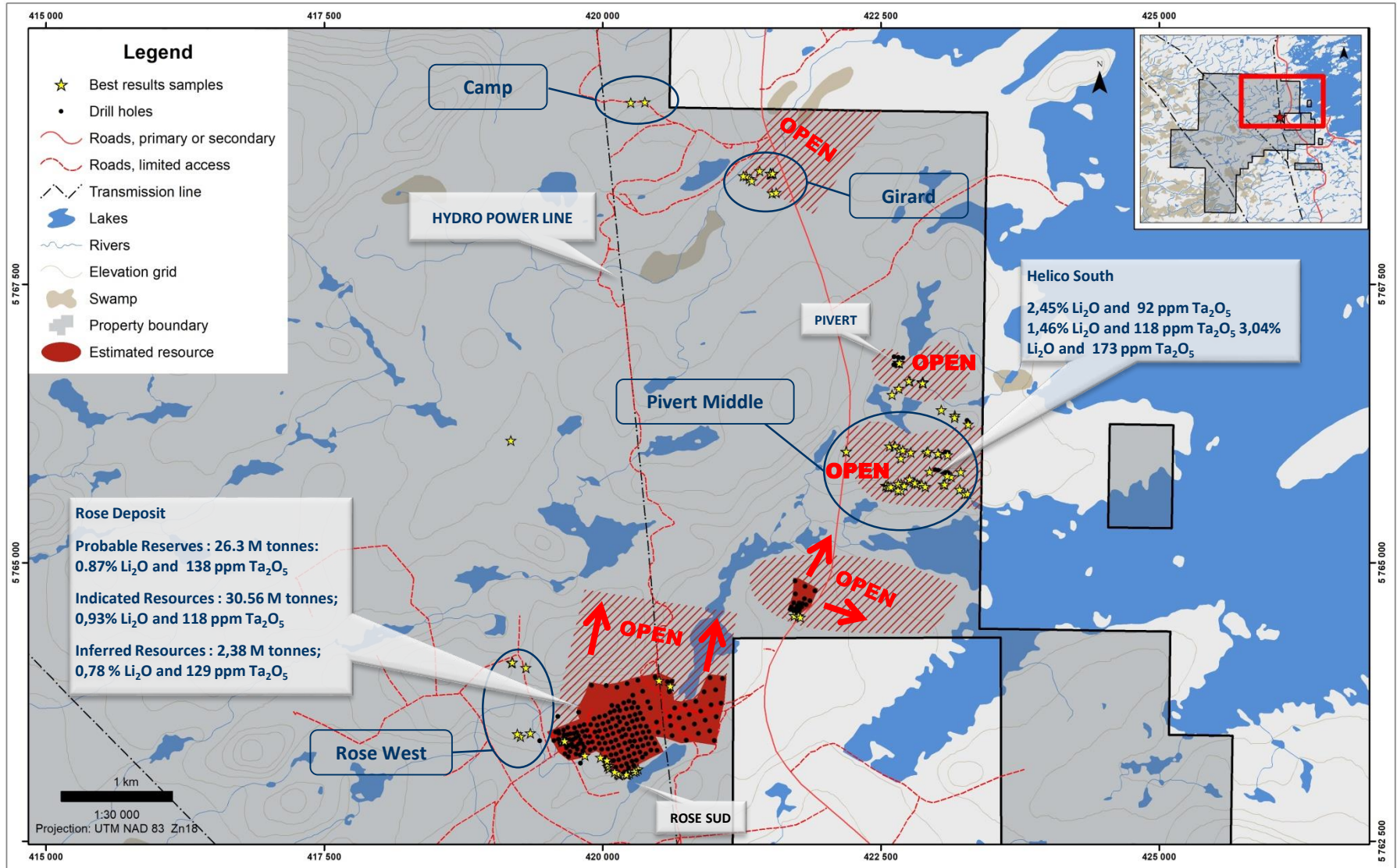
Plunge +15
Azimuth 035

2023 DRILLING PROGRAM

Plan View – Project Scale Geology



ROSE EXPANSION POTENTIAL



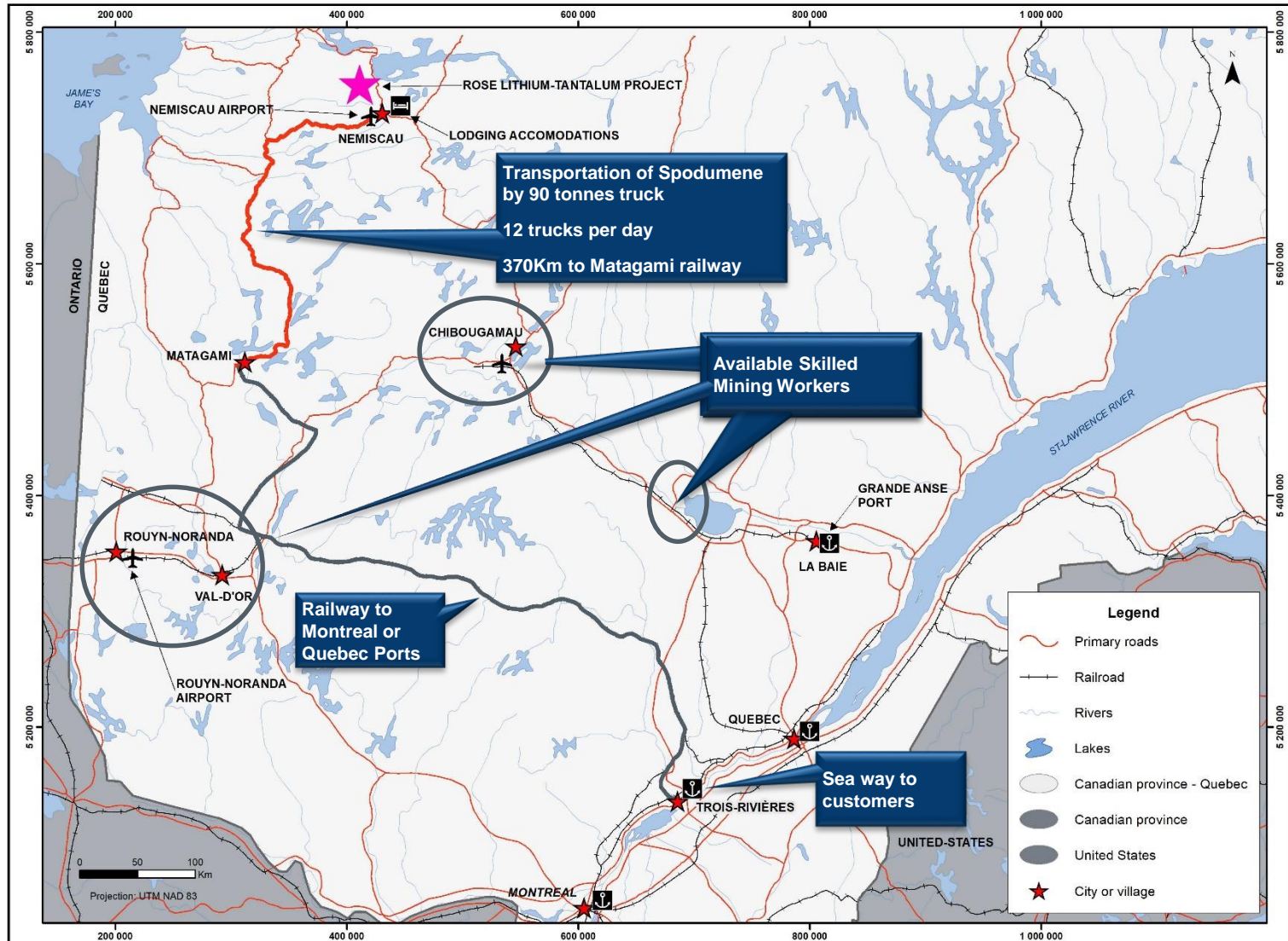
Source: Critical Elements Lithium Corporation –Rose Lithium-Tantalum project feasibility study press release August 29th, 2023

CriticalElements
Lithium Corporation



APPENDIX

PROJECT LOGISTICS

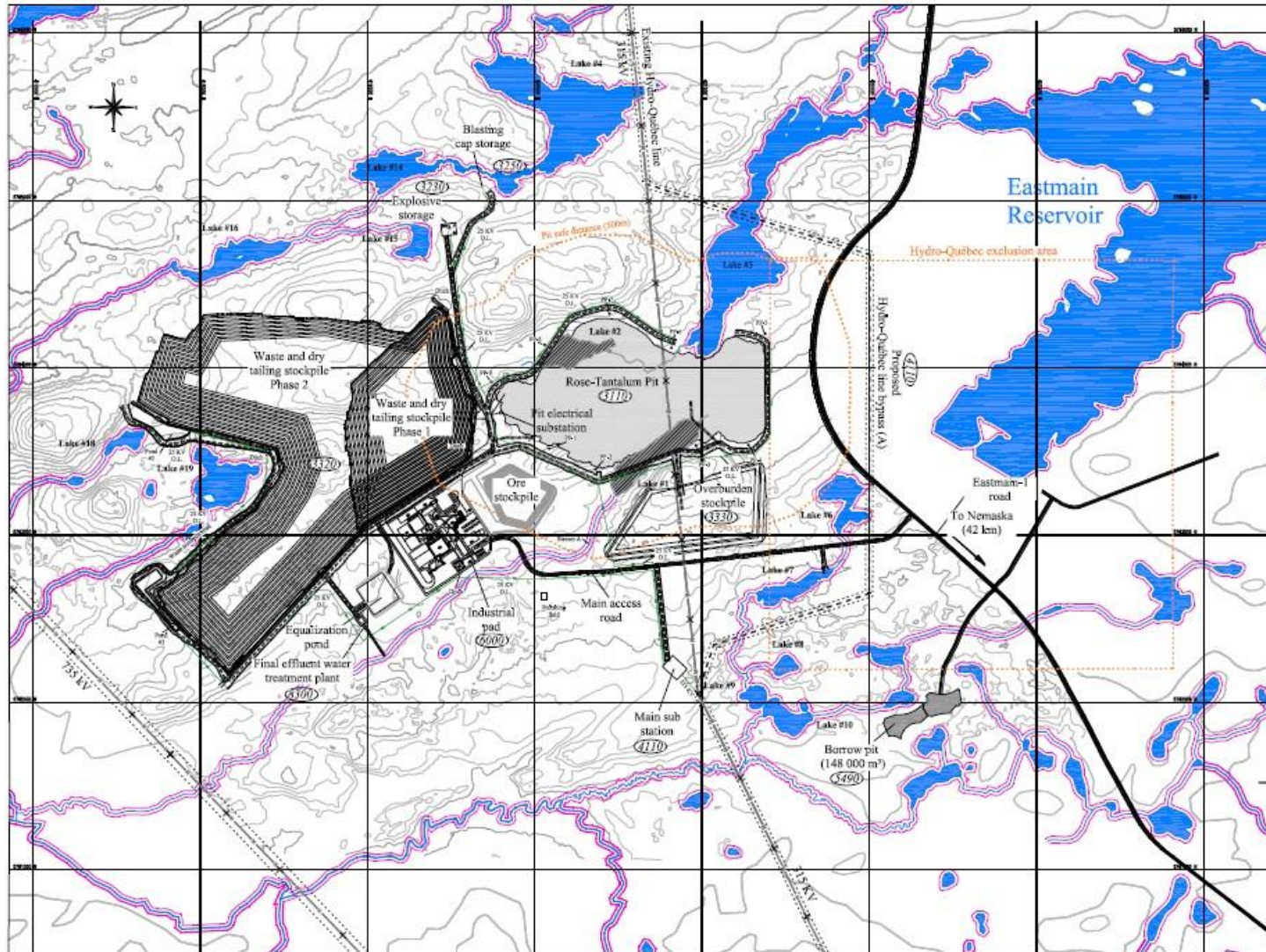


MINERAL RESERVES AND RESOURCES (1)

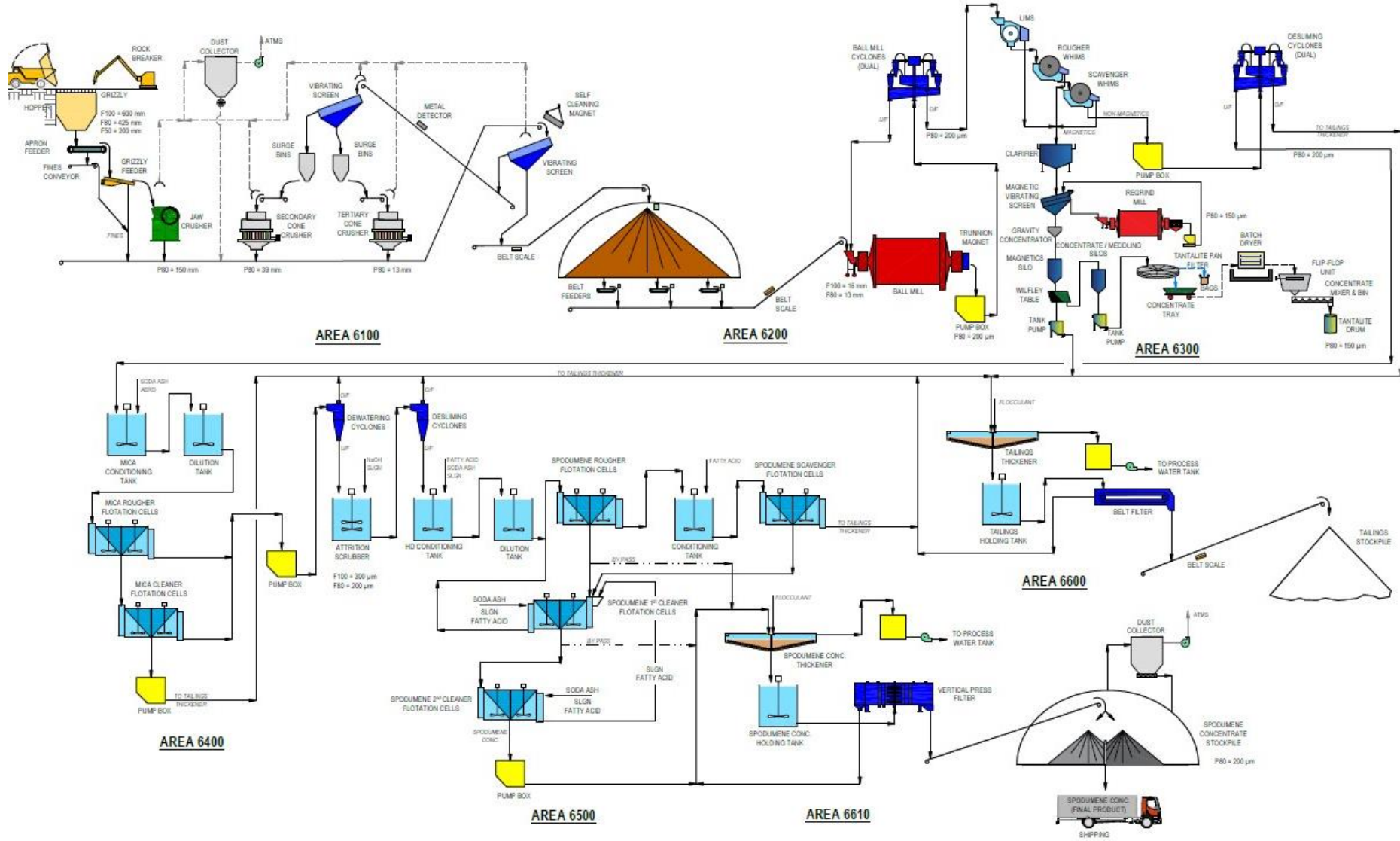
Category	Tonnage (Mt)	NSR (CA \$)	Li2O_eq (%)	Li2O (%)	Ta2O5 (ppm)
Probable	26.3	165.00	0.92	0.87	138
Total	26.3	165.00	0.92	0.87	138

	Category	Tonnage	NSR (CA \$)	Li2O_eq (%)	Li2O (%)	Ta2O5 (ppm)
Indicated	Pit-constrained	29,922,000	185	1.03	0.93	145
	Underground	624,000	177	0.96	0.91	82
	Total Indicated	30,561,000	185	1.03	0.93	118
Inferred	Pit-constrained	1,787,000	149	0.86	0.77	138
	Underground	597,000	150	0.87	0.80	101
	Total Inferred	2,384,000	149	0.86	0.78	129

MINE INFRASTRUCTURE LAYOUT

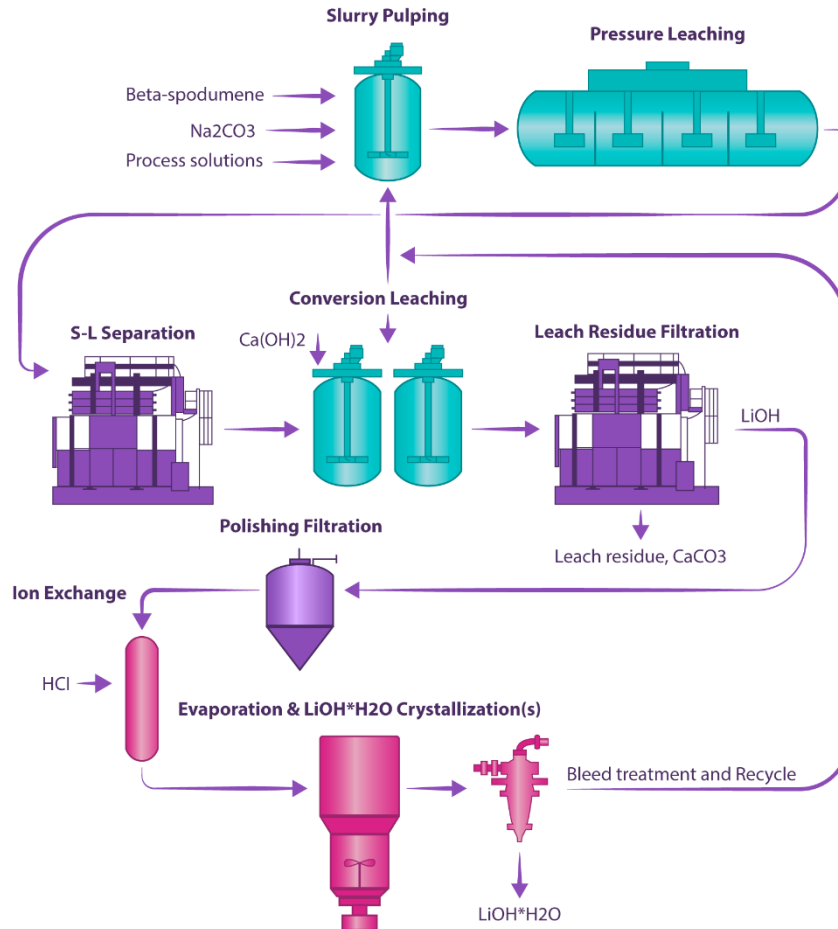


CONCENTRATOR DETAILED FLOWSHEET



Source: Critical Elements Lithium Corporation –Rose Lithium-Tantalum project feasibility study press release August 29th, 2023

LITHIUM HYDROXIDE PILOT PLANT FLOWSHEET(1)



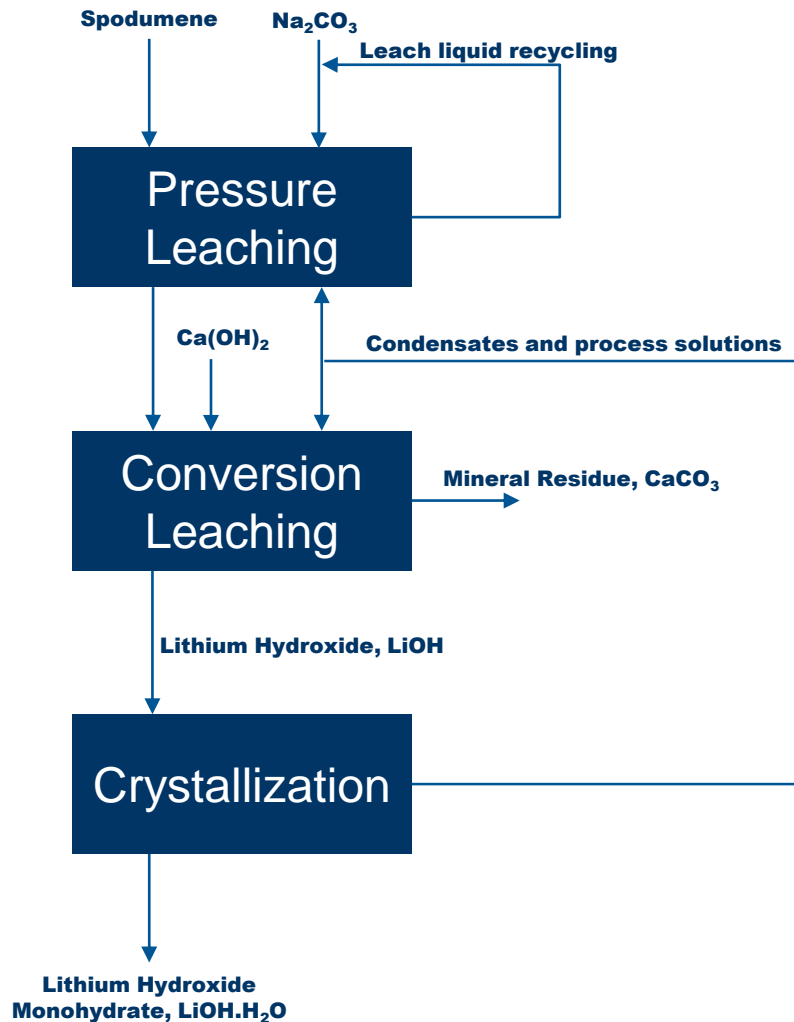
About Metso Outotec

- Metso Outotec is a leading technology company in multiple mining and extraction industries, including the lithium industry, with a global presence and owned R&D facilities in Frankfurt, Germany and Pori, Finland, as well as other locations
- Metso Outotec offers competent knowledge of the various processing options for both beneficiating spodumene, as well as converting spodumene into saleable lithium salts

Sources: Metso Outotec pilot work, Company news release dated 29 October 2018

(1) On August 11th, 2022, the Corporation announced that it had complete an engineering study for a chemical plant to produce high quality lithium hydroxide monohydrate for the electric vehicle and energy storage system battery industries. The study was prepared by Metso Outotec and WSP in Canada (WSP). The Company is not in a position to confirm as of the date hereof if the hydroxide chemical plant will ever be implemented or that it will form part of the Rose Lithium-Tantalum project

SIMPLIFIED METSO OUTOTEC PROCESS⁽¹⁾



The Metso Outotec alkaline leach process⁽¹⁾ benefits from:

- Acid and sulphate-free process
- Inert and neutral mineral residue
- Produces battery-grade lithium hydroxide monohydrate
- Simple process with fast throughput

Several comparable projects have recently announced plans to incorporate the Metso Outotec process, including:

- “Metso Outotec and Halmek Lithium to construct the battery-grade lithium hydroxide process using soda leaching”, www.mining.com, 30 June 2021
- “Kokkola lithium hydroxide plant hydrometallurgical process with Metso Outotec proceeds”, Keliber Oy Progress Report Q1 2021
- “Metso Outotec alkaline pressure leach replaces acid roasting lithium conversion process”, Piedmont Lithium Scoping Update news release, 9 June 2021

Source: Metso Outotec

(1) On August 11th, 2022, the Corporation announced that it had complete an engineering study for a chemical plant to produce high quality lithium hydroxide monohydrate for the electric vehicle and energy storage system battery industries. The study was prepared by Metso Outotec and WSP in Canada (WSP). The Company is not in a position to confirm as of the date hereof if the hydroxide chemical plant will ever be implemented or that it will form part of the Rose Lithium-Tantalum project

MANAGEMENT & BOARD OF DIRECTORS



JEAN-SÉBASTIEN LAVALLÉE

CEO and Director

Jean-Sébastien Lavallée, P. Geo, has been the Chief Executive Officer of the Company since 2009. From 2009 to 2017, he also served as President. Mr. Lavallée was President and Chief Executive Officer of Quebec Precious Metals Corporation (TSX-V : QPM) from 2012 to May 2017. He also served as Director and Vice President Exploration in this Company from June 2017 to May 2021. Mr. Lavallée has been active in mining exploration since 1994. Mr. Lavallée has been on the Board of Directors of the Quebec Mineral Exploration Association “AEMQ” from 2017 to 2019. He is also working with Consul-Teck Exploration Minière Inc., a Val-d’Or based consulting firm. Most of the firm’s mandates involve the generation and execution of projects in remote areas. Mr. Lavallée has acted as a geologist for many companies, including Eloro Resources Ltd., Agnico-Eagle Mines Ltd., Noranda Minerals Inc. and, Champion Minerals Inc. Having been responsible for the planning and execution of many exploration programs in recent years, Mr. Lavallée has acquired solid experience in exploration project development.

STEFFEN HABER

President and Director

Dr. Haber was appointed President of the Company in January 2017. He was President and Chief Executive Officer of Rockwood Lithium GmbH when Chemetall GmbH was legally split off in 2012. From 2011 to 2012, he was Managing Director of Chemetall GmbH and since 2007 President of Chemetall’s Lithium business. Prior to joining Chemetall GmbH, Dr. Haber worked in different executive positions for Sanofi-Aventis SA and its predecessor companies, in France. Dr. Haber completed his doctorate in organic chemistry at the University of Kaiserslautern, Germany, in 1991 and added one year as a Post-Doctorate at Ecole Polytechnique in Paris. In 1997, Dr. Haber earned his Bachelor of Science in Management from the International School of Management in San Diego, in the United States. Dr. Haber is a fellow of the International Directors Program of INSEAD.

MARCUS BRUNE

Vice President Finance and Director

Dr. Brune was Chief Financial Officer of Rockwood Lithium from 2011 until the acquisition of Albemarle in 2015. He left Albemarle in 2016 once the lithium business was successfully integrated into Albemarle’s organizational structure. Prior to joining Rockwood Lithium, Dr. Brune had worked in different executive positions in corporate finance and M&A for Rockwood Holdings and its predecessor companies since 2004. Prior to that, he was with McKinsey as a strategy consultant for organizational development and management. Dr. Brune completed his doctorate in material sciences at the Technical University of Dortmund, Germany, after earning a physics degree.

MANAGEMENT

NATHALIE LAURIN

Secretary & CFO

Nathalie Laurin has over 30 years of experience in administration and accounting. The experience gained through working in various roles with increasing responsibilities, primarily in the natural resources sector, has given her a solid mastery of finance and project management. Since 2006, she has acted as corporate secretary and/or chief financial officer for several companies, most notably mineral exploration companies, including Critical Elements Lithium Corporation, Delta Resources Limited, MPV Exploration Inc., Quebec Precious Metals Corp. and BlackRock Metals.

YVES PERRON

Vice-President Engineering, Construction, and Operations

Mr. Yves Perron, Eng., MBA brings extensive experience in mining sector, engineering and construction in Québec to the Corporation. He was appointed Vice-President, Engineering and Construction by Stornoway Diamond in June 2012 and Vice-President, Engineering and Construction for Mason Graphite in August 2018. Mr. Perron served as Vice-President Engineering and Construction for Loop Industries since January 2021. Mr. Perron has over 25 years of experience in project management in the industrial sector within major international firms. Prior to joining Stornoway, Mr. Perron was Vice-President, Business Development and Project Manager at Delsaer and Seneca. He also held several management positions in areas of production, operation start-ups, maintenance, engineering and project management with ArcelorMittal and Xstrata. Mr. Perron holds a Bachelor Degree in Mechanical Engineering from Université du Québec – École de Technologie Supérieure in Montréal and a DEC in Civil Engineering Technology. In addition, he holds an MBA from Université du Québec in Montréal as well as an Executive MBA from Université Paris Dauphine.

BOARD OF DIRECTORS



ERIC ZAUNSCHERB

Chairman

Mr. Zaunscherb is a Canadian mining executive focused on building strong management teams for the responsible exploration and development of quality mineral assets. He is the Chair of the Board of Directors of Critical Elements Lithium Corp. since 2020 and the Chief Executive Officer and Chair of GR Silver Mining Ltd. since March 2022. He is an independent director of TriStar Gold Inc. and Outback Goldfields Corp. Originally an exploration geologist, Mr. Zaunscherb spent 34 years as a mining analyst, most recently serving as Managing Director, Research - Metals and Mining Analyst at a leading investment bank where he coordinated the global mining equity research team. He welcomes new technologies and industry initiatives in diversity and socially responsible investing, ensuring that local communities receive sustainable benefits from mineral resource development.

MARC SIMPSON

Director

Mr. Marc Simpson is President and Chief Executive Officer of Vanadian Energy Corporation. Mr. Simpson has worked in the mining and exploration industry for over 23 years. He has worked for junior, mid-tier and senior mining companies on projects both in Canada and worldwide, including Bema Gold (sold to Kinross for CDN\$3.5 billion in 2007), B2Gold, and Echo Bay Mines. Mr. Simpson has been involved in exploration and mining projects from grass roots exploration through to mine development and production. Mr. Simpson obtained his B.Sc. in Geology from the University of Manitoba and is a member of Association of Professional Engineers and Geoscientists of British Columbia and Association of Professional Engineers and Geoscientists of the Province of Manitoba.

MATTHEW LAURISTON STARNES

Director

Mr. Starnes is a lawyer with over 22 years of experience and the capacity to work in all areas of law, including civil law, common law, contract negotiation and drafting, arbitration, taxes and permits and government relations. Mr. Starnes is currently legal counsel for Sumitomo Corporation's Mineral Resources Division in Tokyo, Japan. Among other things, he was responsible for negotiating the joint venture agreement with a Canadian partner, the financing agreement with Japanese lenders and off take and distribution agreements with Japanese and other worldwide buyers for the Sierra Gorda project in Chile. He was also responsible for negotiating power, railway, port and transportation infrastructure agreements and helping the proponents establish good governance procedures for the project. He is also part of the team for the Ambatovy project in Madagascar, where he participated in preparing for completion, settlement negotiation with Korean contractors and sits on a number of committees. Prior to joining Sumitomo, he also was the General Counsel and Deputy CEO for the Ambatovy project. Mr. Starnes has also practiced as a corporate lawyer with major law firms in Montreal.

MAYSA HABELRIH

Director

Ms. Maysa Habelrih is a results-oriented executive and board director who leverages her global experience and track record of operational excellence and transforming business goals into results growth in complex environments. She has expertise in international joint venture management and board management with a strong knowledge of environmental, social and corporate governance (ESG) practices. Actually, Independent Director of Polycor Inc., Forage FTE Drilling and LDV consultants. From 2021 to March 2023 Maysa acted as the CEO of the Mouvement Québécois de la Qualité, a non-profit organization focused on increasing the competitiveness and productivity of Québec organizations. From 1989 to 2019, she worked at Alcan, which became Rio Tinto Aluminum in 2007. Maysa finished as General Manager/Vice President of Joint Ventures responsible for governance and finance for nine joint venture operations worldwide, with \$2 billion in revenues, \$400 million in EBITDA and 1,900 direct and indirect employees. This included overseeing the design and implementation of an \$850 million mining expansion project in Guinea. Maysa holds a Bachelors and Masters degree in Chemical Engineering from McGill University in Montreal, as well as the International Masters Program for Managers (IMPM) which is offered in partnership by INSEAD, McGill University and 3 other universities.

BOARD OF DIRECTORS

ANI MARKOVA

Director

Mrs. Markova is an award-winning portfolio manager with more than 15 years of experience investing in the mining and metals sector, currently an officer and director of SilverCrest Mining. She is Chair of the Safety, Social and Environmental Responsibility Committee and a member of the Audit and Compensation Committees of SilverCrest. She is the founder and CEO of Investor View Advisory engaged with public companies on environmental, social and governance (ESG) reporting and integration. Ms. Markova holds an MBA from George Washington University in Washington DC, a Chartered Financial Analyst (CFA) designation, an Investment Manager (ICM) designation, a Corporate Board International (CDI.D) designation and Competent Boards (GCB.D) designation.

VANESSA LAPLANTE

Director

Ms. Vanessa Laplante has over 30 years of experience in finance and tax, including 16 years in the mining industry. She is a leader in her field of specialization, mining tax, which has allowed her to be recognized as Chair of the Fiscal Committee of the Québec Mining Association since 2011, and Chair of the Board of Directors of the Québec Mining Association since June 2021. Since 2014, Vanessa has been Director, Fiscal Affairs and Montreal Office, as well as Treasurer, of Canadian Malartic Partnership, a company wholly-owned by Agnico Eagle Mines Limited since March 31, 2023. From 2019 to 2020, she was a member of the board of directors and chair of the audit and risk management committee of Nemaska Lithium Inc. While at Osisko Mining Corporation from 2010 to 2014, she was a member of the audit committee. From 2015 to 2019, Vanessa was a member of the advisory committee on the simplification of the mining royalty regime, formed by the Ministère des Ressources Naturelles du Québec. Vanessa holds a Bachelor's degree in Business Administration from the University of Sherbrooke (1991) and is a member of the Ordre des comptables professionnels agréés du Québec (CPA).

OPERATIONS TEAM

HUGHES PÉRIGNY, P.ENG

Senior Project Director

Mr. Hughes Périgny, P.Eng. has over 29 years of experience in engineering, construction and project management in the industrial and mining sectors. He has participated in several industrial and mining projects with IAMGOLD (Boto project, Senegal), Mason Graphite (Lac Guéret, Quebec) as well as several projects with the Rio Tinto group (QMM Madagascar, QMP Metal Powders Suzhou, China and QMP, Sorel-Tracy). He also participated in the construction of the Renard mine with Stornoway from 2014 to 2019. He held the position of France & Asia Project Director for Loop Industries from 2021 to present. Mr. Périgny holds a Bachelor's degree in Mechanical Engineering from École Polytechnique de Montréal.

MICHEL CLÉMENT, P.ENG., PMP

Senior Project Control Director

Mr. Michel Clément, P.Eng., PMP has a vast experience in project control and risk analysis acquired in Québec and internationally. Mr. Clément has also more than 25 years of experience in engineering, construction, project management and control, as well as project risk analysis in the industrial and mining sectors. He has been involved in numerous projects, notably with Stornoway Diamonds, Rio Tinto Alcan, the Iron Ore Company of Canada, and Mason Graphite (Lac Guéret, Québec). He also held different engineering positions, including Project Leader, with Rolls-Royce. Mr. Clément holds a bachelor's degree in Mechanical Engineering from the Université de Sherbrooke and also holds the Project Management Professional certification from the Project Management Institute.

ANDY FORTIN

Senior Process and Commissioning Director

Mr. Andy Fortin holds a bachelor's degree in Metallurgical Engineering from Laval University in Québec City. Mr. Fortin brings to the Company a solid operational experience acquired in Northern Québec and Nunavut. He has over 25 years of experience in leading continuous improvement of metallurgical processes, asset management, health and safety culture and risk management. He has been involved in numerous projects in process design, commissioning to achieve production capacity and operational improvement, notably with Québec Iron Ore, Newmont / Goldcorp, Agnico-Eagle Mines and Inmet Mining Corporation.

SÉBASTIEN PERREAULT

Senior Director, Storage facilities, Mines and Camp

Mr. Sébastien Perreault has over 25 years of experience in open-pit mining operations and mining project management both in Quebec and abroad. Mr. Perreault contributed to the successful start-up of several mining projects along with the establishment of operational teams at several mining companies, including Barrick, High River Gold, Sherritt, SEMAFO Inc. and IAMGOLD Corporation. He holds a bachelor's and a master's degree in mining engineering from Université Laval in Quebec City

NANCY HARVEY-DUQUET

Senior Director of Sustainable Development and Environment

Ms. Duquet-Harvey has over 25 years' experience in environmental studies, environmental monitoring and working closely with local aboriginal groups. She has contributed to the successful implementation of numerous environmental programs at several mining companies, including Agnico Eagle – Nunavut, Alamos Gold – Young-Davidson, Kirkland Lake Gold – Macassa Mine, New Britannia Mine – Manitoba and Kinross Gold – Macassa Mine, Bell Creek Mill. Ms. Duquet-Harvey holds a Bachelor of Science in Environmental Management from Royal Roads University in Victoria, British Columbia and a Mining Engineering Technician from the Haileybury School of Mines.

OPERATIONS TEAM

PAUL BONNEVILLE

Project Manager

Mr. Bonneville has over 30 years of experience in the mining industry in Canada. He is a graduate of Queen's University in Mining Engineering. He was Vice President Operations for Scorpio Mining and Vice President Mines for Cadiscor Resources. He worked for Dumas Contracting as Project Manager at the Lapa and Goldex shaft projects and for Ross-Finlay Ltd., where he held a range of positions, including Project Manager at the Bell-Allard shaft project and the Silidor project, and at Pan American Silver Corp. He has also managed a number of overseas operations.

LLOYD MAYAPPO

Cree Relation Coordinator

Mr. Lloyd Mayappo has more than 30 years of experience as a foreman, project manager and contact person within the Eastmain Cree Nation. He has served 12 years in the political field as Councillor and Chief for Cree Nation of Eastmain with an excellent knowledge of the New Relationship Agreement with the Government of Quebec and Canada. Worked for Hydro-Québec/Société d'énergie de la Baie-James as an advisor of Cree Relations on the EM-1 A/Sarcelle/Rupert diversion project. Recently, was the Director of construction operations in civil works for Wechidodao a Cree company in partnership with Excavation Michel Paradis Inc. in Eastmain. Mr. Mayappo speaks fluently in French, English and Cree.

PATRICK LAPERRIÈRE, CFA

Director of Investor Relations and Corporate Development

Mr. Laperrière is an investment professional with over twenty years of experience in portfolio management and capital markets. Prior to joining Critical Elements Lithium Corporation, he was responsible for portfolios specializing in natural resources as well as Canadian and American small-cap public shares at la Caisse de dépôt et placement du Québec from 1998 to 2003. He then held roles at major brokerage firms, such as Canaccord, RBC, Industrial Alliance and Macquarie, where he developed close relationships with institutional asset managers. These experiences allowed him to acquire excellent knowledge of company analysis and investment portfolio structure. He graduated from the University of Montreal with a Bachelor's degree in Mathematics and a Certificate in Economics. He is also a CFA charter holder (Chartered Financial Analyst) from the CFA Institute.

CORPORATE CONTACTS



North American sourced lithium and tantalum to power a clean energy future

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