



ASX ANNOUNCEMENT



14 NOVEMBER 2017

2017 International Lithium, Graphite & Cobalt Conference

Attached is a presentation to be given by Mr Corey Nolan at the 2017 International Lithium, Graphite & Cobalt Conference in Hong Kong.

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Sayona Mining Limited is an Australian, ASX-listed (SYA), company focused on sourcing and developing the raw materials required to construct lithium-ion batteries for use in the rapidly growing new and green technology sectors.

The Company's primary focus is the development of the advanced stage Authier lithium project in Quebec, Canada. Authier mineralisation is hosted in a spodumene-bearing pegmatite intrusion with more than 22,000 metres of drilling in 139 holes. The Authier JORC (2012) compliant Ore Reserve and Mineral Resource estimates are tabulated below at a 0.45% Li₂O cut-off grade.

Authier JORC Ore Reserve Estimate (0.45% Li ₂ O cut-off grade)			
Category	Tonnes (Mt)	Grades (%Li ₂ O)	Contained Li ₂ O
Proven Reserve	4.9	0.97%	47,821
Probable Reserve	5.3	1.06%	55,904
Total Reserves	10.2	1.02%	103,725
Note: The Ore Reserve is based on the February 2017 Mineral Resource estimate and February 2017 Pre-Feasibility Study			

Authier JORC Mineral Resources Estimate (0.45% Li ₂ O cut-off grade)			
Category	Tonnes (Mt)	Grades (% Li ₂ O)	Contained Li ₂ O
Measured	5.62	1.01%	56,762
Indicated	9.57	1.03%	98,571
Inferred	2.21	0.99%	21,879
Total Resources	17.4	1.02%	177,212

Authier is amenable to simple open-cut mining and processing methods, and is situated in close proximity to development infrastructure. The Company is currently completing an updated Pre-feasibility Study, due for completion in 3Q2017, prior to the commencement of a Definitive Feasibility Study which is planned to be completed in early 2018.

In addition, the Company controls a portfolio of lithium and graphite exploration projects in Western Australia.

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ASX Code: **SYA**

A collage of three images: a close-up of a white electric vehicle charging cable plugged into a blue car, a close-up of a solar panel reflecting the sun, and a close-up of a rough, crystalline mineral sample.

Developing an Advanced Lithium Project in Quebec, Canada

International Lithium & Graphite
Conference, Hong Kong

November 2017
ASX: **SYA**

Disclaimer



Forward Looking Statements

This presentation may contain certain forward looking statements. Such statements are only predictions, based on certain assumptions and involve known and unknown risks, uncertainties and other factors, many of which are beyond Sayona Limited's control. Actual events or results may differ materially from the events or results expected or implied in any forward looking statement. The inclusion of such statements should not be regarded as a representation, warranty or prediction with respect to the accuracy of the underlying assumptions or that any forward looking statements will be or are likely to be fulfilled. Sayona Limited undertakes no obligation to update any forward-looking statement to reflect events or circumstances after the date of this presentation (subject to securities exchange disclosure requirements). The information in this presentation does not take into account the objectives, financial situation or particular needs of any person. Nothing contained in this presentation constitutes investment, legal, tax or other advice.

Reference To Previous ASX Releases

This presentation refers to the following previous ASX releases:

- Authier JORC Resource Expanded , 23 November 2016
- Authier Maiden JORC Ore Reserve, 17 February 2017 and JORC Resource Update, 14 June 2017
- Authier PFS, 17 February 2017

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and all material assumptions and technical parameters continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

Downstream Concept Study

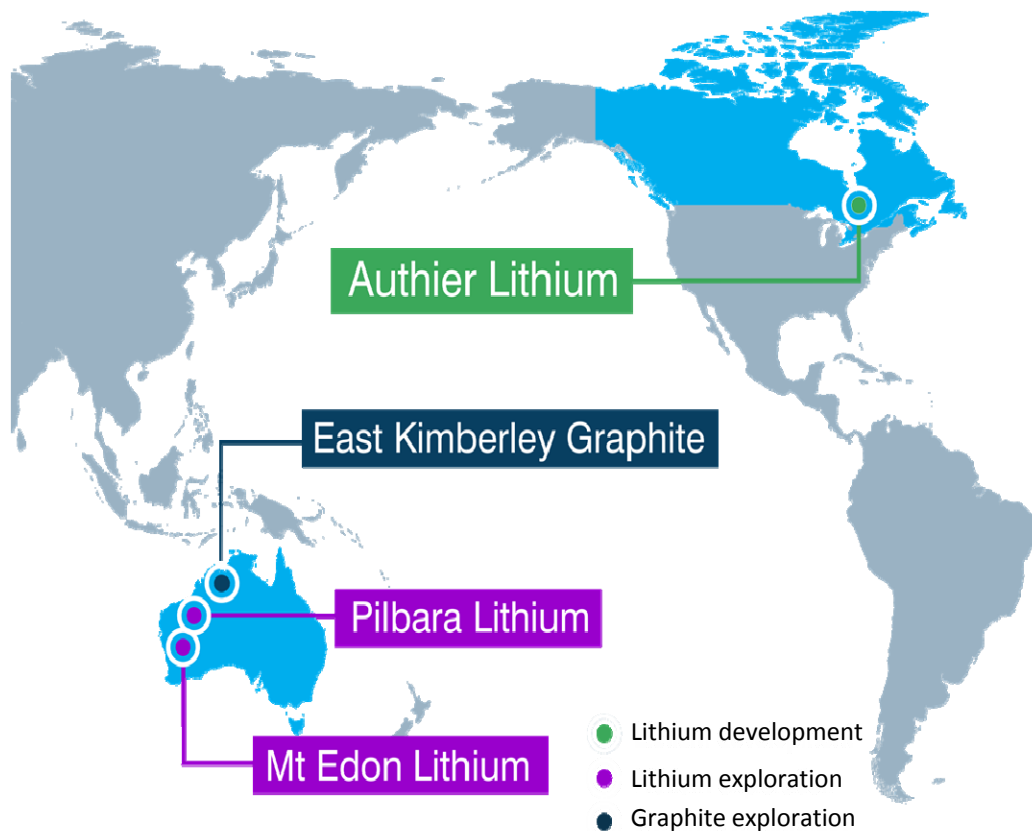
The Concept Study referred to in this announcement has been undertaken to determine the potential viability of downstream processing Authier concentrates into lithium carbonate and/or hydroxide. It is based on a low level technical and economic assessment and was based on the AACE International Recommended Practice No. 18R-97, as a Class 4 estimate. The study has not been used as the basis for the estimation of Ore Reserves. Further technical and economic assessment including, metallurgical testing, Feasibility Study and permitting will be required to provide any assurance or certainty of an economic development case.

The Concept Study is based on the mine and concentrator assumptions (includes Ore Reserves) outlined in the February 2017 Authier Pre-Feasibility Study, Authier Updated JORC Resource report (14 June 2017), a report prepared by Wave International on the downstream capital and operating costs, Appendix – Project Design Criteria, and other material assumptions outlined elsewhere in this document. Whilst the Company considers all the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the outcomes indicated in the Concept Study will be achieved.

To achieve the potential downstream process plant development outcomes indicated in this Concept Study, additional funding will be required. Funding will be required to complete metallurgical testing (\$100,000), feasibility studies and permitting (approximately \$1,000,000) and development (approximately \$223 to \$240 million depending on whether it is a lithium carbonate or lithium hydroxide plant). Investors should note that there is no certainty that the Company will be able to raise the funding when needed. It is also possible that such funding may only be available at terms that may be too dilutive to or otherwise affect the value of Sayona shares. It is also possible that Sayona could pursue other 'value realisation strategies such as sale, partial sale or joint venture of the project. If it does, this could materially reduce Sayona's proportionate ownership of the project. Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the Concept Study.

The Company has concluded it has reasonable basis for providing forward looking statements included in this announcement and believes that it has a reasonable basis to expect it will be able to continue funding the feasibility activities for the project.

Sayona - At a Glance



- Australian-based, ASX listed lithium exploration and development company
- Primary objective is to fast-track development of the advanced Authier Lithium Project
- Targeting first production at Authier in late 2019
- Significant portfolio of lithium and graphite exploration properties in Australia

Corporate Summary



Trading Exchange	ASX: SYA
Shares	1,462,229,614
Shareholders	19% Directors 44% Top 20

Capitalisation	
Price <small>As at 10 Nov 2017</small>	3.0¢
Market cap	AUD\$44m
Cash <small>As at 10 Nov 2017</small>	AUD\$5.0m

Research Coverage



Board



James Brown	<ul style="list-style-type: none">• 35 year's experience including, 22 years with New Hope Corporation. Extensive mine development & operational experience• Managing Director of Altura Mining - \$780m market cap
Allan Buckler	<ul style="list-style-type: none">• 40 year's experience building mining operations in Australia and Indonesia. Former Director and Chief Operations Officer for New Hope Corporation• Director of Altura Mining
Dan O'Neill	<ul style="list-style-type: none">• Geologist with 35 year's experience in technical and corporate roles• Founding director of Orocobre Ltd. Director of Altura Mining
Paul Crawford	<ul style="list-style-type: none">• CPA with 35 years public company experience• Previously Company Secretary of companies including, Orocobre Ltd (founding director), Elementos and ActivEx

Management



Building in-house capability across all technical disciplines

Corey Nolan CEO	<ul style="list-style-type: none">• 24 years experience in exploration, development, operations and corporate finance• Started and managed a number of resource companies with projects in a range of commodities and countries
Jonathon Gagne Canada Manager	<ul style="list-style-type: none">• Mining Engineer with MBA and more than 10 years experience in operations and mine planning• Joined Sayona from Glencore Zinc's open-cut mine planning division
Authier Processing Engineer	<ul style="list-style-type: none">• Appointment to be announced soon
Authier Project Manager	<ul style="list-style-type: none">• Appointment to be announced soon

Quebec

World-class lithium geology and
development infrastructure



Mining in Quebec



Malartic gold project, Quebec's largest open-cut mine, 25 km from Authier



North American Lithium (NAL) project, 35 km from Authier

- Canada's largest iron and zinc producer, and 2nd largest gold producer
- 25 mines in production
- \$8.7bn of mineral exports
- Number of new lithium mines and downstream processing facilities proposed
- NAL only spodumene conversion facility in the world outside China

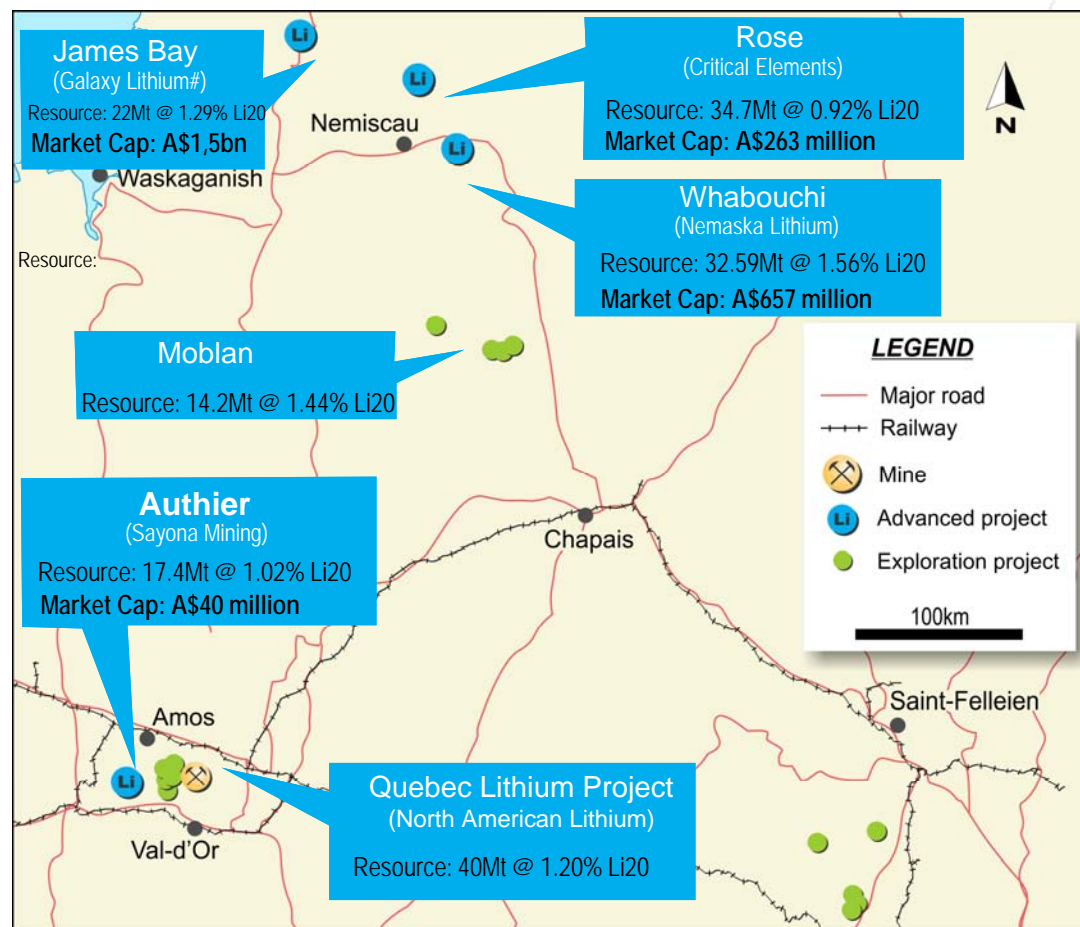
Major Hard-Rock Lithium Province



Number of globally significant lithium deposits

Challenges for Northern Quebec lithium projects is limited infrastructure, environmental and management of first nations

Authier benefits from close proximity to established infrastructure – cost benefit



Closing Prices 10 Nov 2017. C\$:A\$ 1.03

Resource shown as James Bay only. Excludes other projects

Supportive Government



TOP rated mining jurisdiction by Fraser Institute – No.6 in world

Stable taxes (profit sharing basis) and no royalties

Well established permitting regime

Modern, efficient **infrastructure**

Strong Government Support – Investment Partners in Mining

SOQUEM

IQ Investissement Québec

Shareholders



NEMASKA LITHIUM

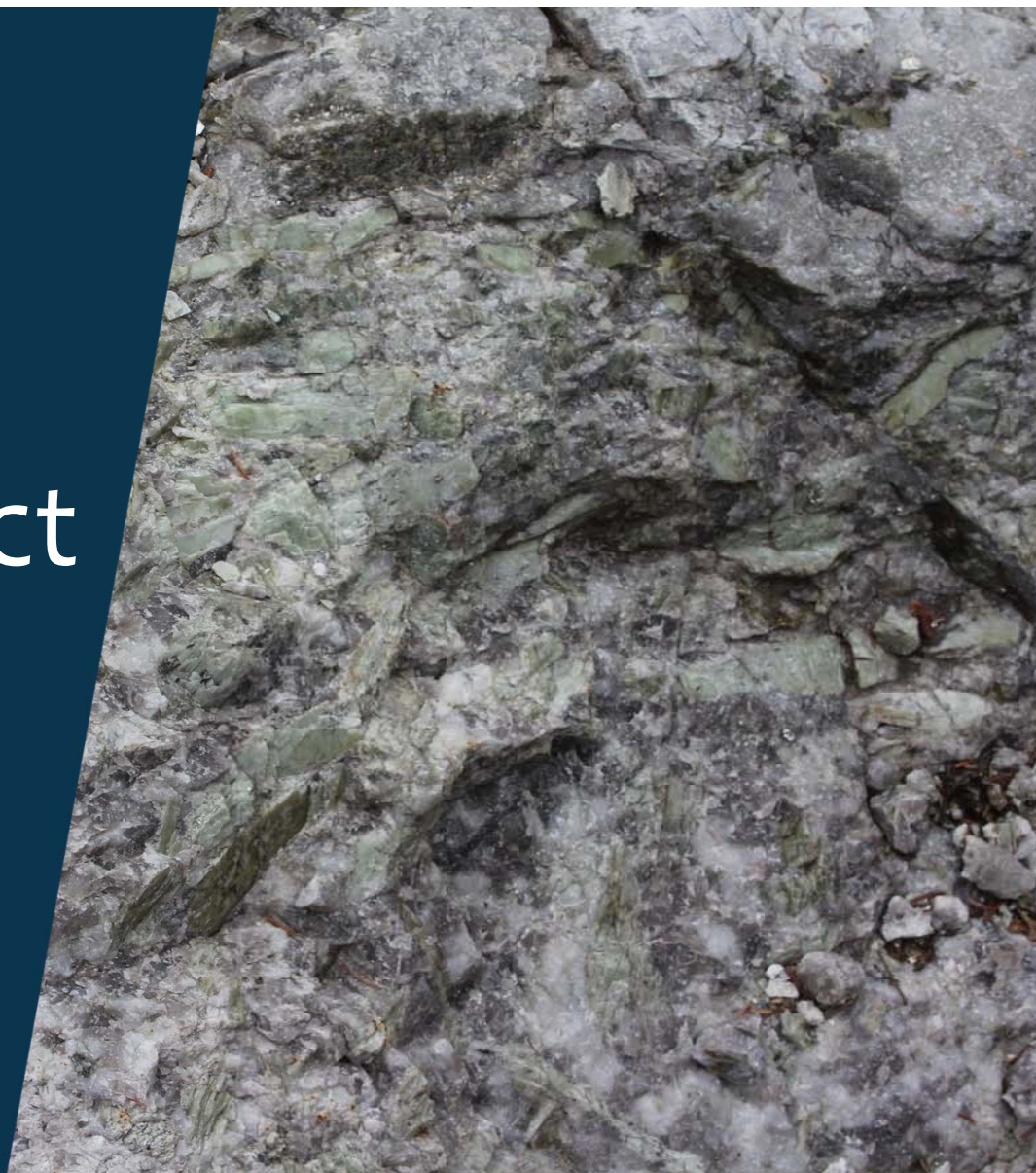
World Class Infrastructure



- Port
- Power
- Rail
- Airports
- Labour



Authier Lithium Project



Authier Lithium Project



- Located 45km from Val d'Or in Quebec, Montreal
- Hard-rock, spodumene lithium deposit
- 100% owned
- 26,000m of drilling
- Base-line environmental completed
- Well studied – PEA 2012, PFS 2017, 4-phases of metallurgy

Authier First Phase Development



Simple, low-cost, truck and shovel, open-cut mining operation



Conventional concentrator producing 100kt/yr of 6% Li2O concentrate



Definitive Feasibility Study commenced. Targeting completion 2Q2018



Permitting and **environmental** to be completed early 2018



Base case mine life **15 years**



Low capital hurdle and **competitive operating cost**

First Phase Development based on a Fast Track Permitting Regime

Authier Growth and Expansion Options



1. Increase Production Capacity

- Increase plant capacity to sell more concentrates and shorten mine-life to maximise NPV
- Invest into further exploration to expand the resource base

2. Integrated Refinery Model

- Convert Authier concentrates into lithium hydroxide or carbonate
- Scoping study completed – attractive economics
- Leverages world-class infrastructure and low energy costs in Quebec
- PFS and metallurgical test work to commence next quarter
- Site selection process underway

Growth Options Funded from Phase 1 Concentrate Sales

2017 Pre-Feasibility Study Outcomes



Start-up capex of
CAD\$66 million
and
and opex of
US\$280/t

Pre-Tax NPV's	CAD\$140m
Pre-Tax IRR	39%
Capital Payback	2.2 years
Ave Annual EBITDA	CAD\$31m
Ave Operating Margin	US\$235/t
Price Forecast*	US\$515/t

- Price of US\$/t per tonne of concentrate based on a 5.75% Li2O concentrate
- #See ASX release, Authier Pre-Feasibility Study, 17 February 2017

Maiden JORC Ore Reserve

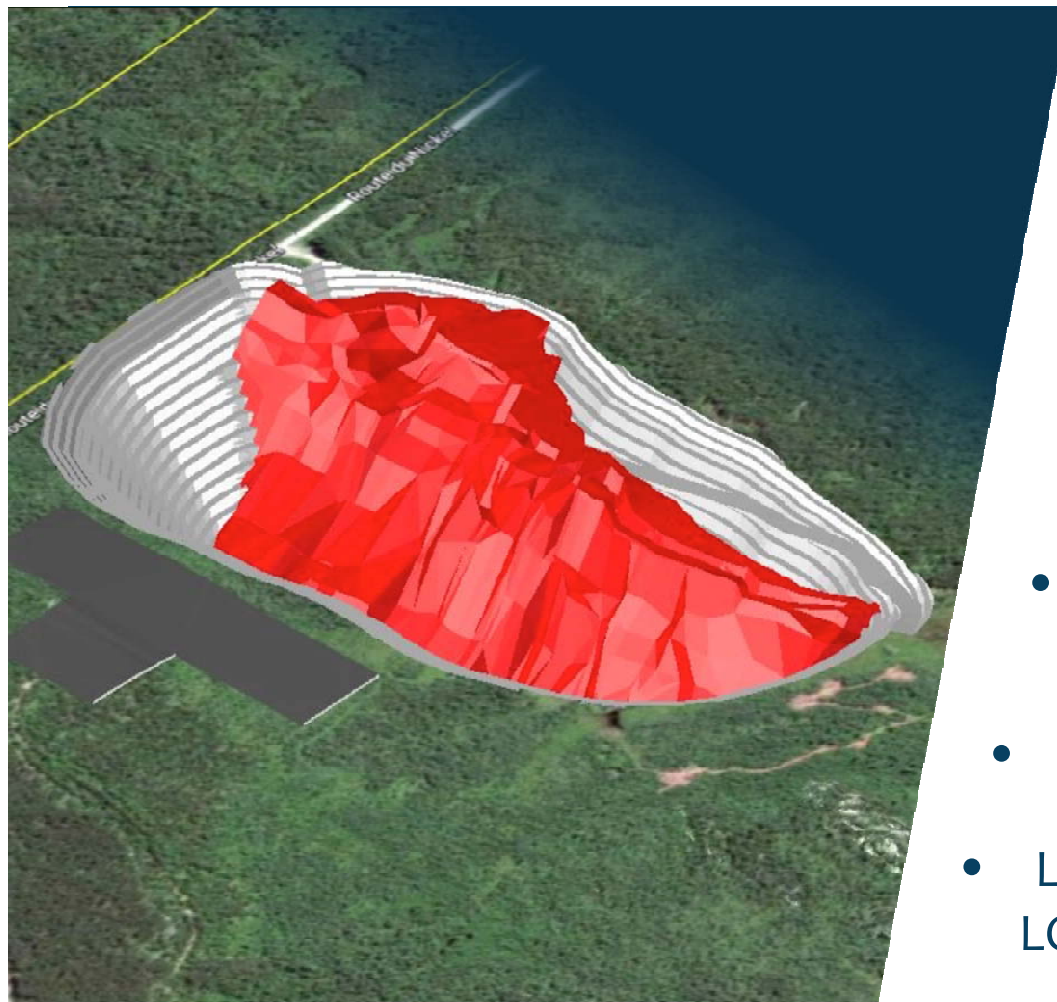
	Tonnes (Mt)	Grades (Li2O)	Contained (Li2O)
PROVEN	4.9	0.97%	47,821
PROBABLE	5.3	1.06%	55,904
TOTAL	10.2	1.02%	102,725

The Ore Reserve has been estimated and reported in accordance with the guidelines of the Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012) at a 0.45% Li₂O cut-off grade

Sayona Mining Limited, ASX: SYA

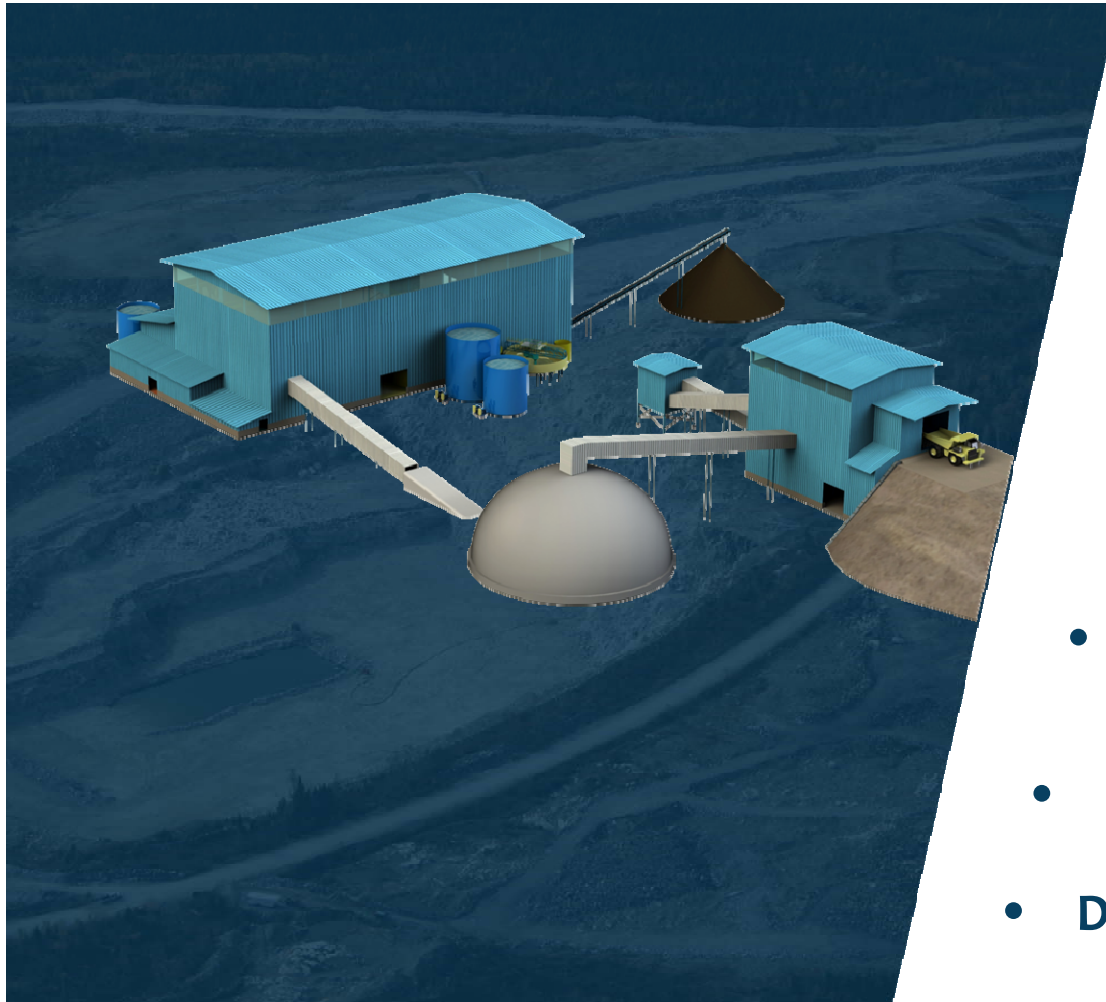


Simple, Open-Cut Mining Operation



- Simple Mining Method
Truck and shovel operation
- Competitive Mining Costs
CAD\$2.90/tonne average
- Low Capex
Mining Fleet **Leased**
- Conservative geotechnical assumptions – **45°** pit slope
- Life-of-Mine - **15** years
- Large, thick tabular body
LOM waste to ore ratio **6:1**

Conventional Process Flow-Sheet



- Conventional process flow-sheet - **crush, grind and flotation**
- Cash Operating Costs **\$20 / tonne life-of-mine**
- **80%** recovery to a **5.75% Li₂O concentrate***
- **700,000 tpa** processing capacity to produce
- **98 Kt/yr** Li₂O concentrate
- **Dry Tailings** simplifies approvals

World-Class Infrastructure



5km

Low cost **hydro power & gas**

5km

Sealed **road access**

20km

Rail access to export port

Experienced **local mining workforce**

Major new hub of lithium carbonate production

Electricity 5¢ kWh

Gas < \$3 /GJ

Post-PFS Resource Upgrade – New Reserve Planned

	Tonnes (Mt)	Grades (Li ₂ O)	Contained (Li ₂ O)
MEASURED	5.62	1.01%	56,762
INDICATED	9.57	1.03%	98,571
INFERRED	2.21	0.99%	21,879
TOTAL	17.4	1.02	177,212

The resource has been estimated and reported in accordance with the guidelines of the Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012) at a 0.45% Li₂O cut-off grade.



Optimisation Programs to Enhance Value



Work Programs

- 1. Increased Ore Reserve following Mineral Resource upgrade**
- 2. Metallurgical optimisation:**
 - 6% Li2O concentrate produced
 - Improved processing recoveries
- 3. Geotechnical & dilution study enhancements**

Value Outcomes

- Longer mine life
- Capacity expansion potential
- Increased revenues
- Lower operating costs
- Higher NPV and IRR

Fast tracking Authier towards production
- Definitive Feasibility Study underway

Integrated Refinery Model



Concentrate Sales Strategy

Sell **lower-value concentrates** to battery converters in Canada or China

Concentrate sells at >US\$750/t

Integrated Refinery Strategy

Sell **value-added lithium** products to battery manufacturers

Lithium hydroxide sells for >US\$18,000/t

Why go downstream?

- Substantially higher margins than concentrate operations
- Much higher prices for value-added products
- Significantly higher NPV's
- Opportunity to create significantly more shareholder value

Quebec location advantages

- Low-cost energy
- Skilled low-cost, workforce
- Close to the US battery markets
- Favourable taxation regime
- Reagents readily available

Integrated Refinery Model



Authier Downstream Processing Financial Highlights*
(Approximate Values Derived from the Scoping Study)

Description	Unit	Lithium Carbonate	Lithium Hydroxide
Annual Production Capacity	Tonnes	13,000	14,000
Ave Cash operating Costs*	C\$ per tonne	6,331	6,032
Ave Cash Operating Costs*	US\$ per tonne	4,812	4,585
Price forecast	US\$ per tonne	10,200	12,000
Initial Capital#	C\$ million	223	240
Total Capital#	C\$ million	284	301
Pre-tax NPV @ 9%DR	C\$ million	426	794
Pre-Tax IRR	%	31	44
Exchange rate	CAD\$:US\$	0.76	0.76

* Cash Operating Costs includes mining, processing, administration, royalties, transport, and downstream processing

Capital expenditure includes all mine, concentrator and downstream process plant

* Please see Scoping Study disclaimer on page 2 and ASX release, "Downstream Study Demonstrates Positive Economics", 30 August 2017

Authier Development Timetable



Milestones	2017		2018				2019				2020	
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
PFS Update												
Environmental												
Mining Lease												
Pilot Metallurgy												
Definitive Feasibility Study												
Engineering & Design												
Off-take												
Finance												
Construction												
Operation												
Downstream Concept study												
Downstream Testing												
Downstream Studies												

Investment Highlights



Authier is an advanced, de-risked project. DFS underway



Executing a plan to get into **production and generate cash flow** – low capital hurdle & competitive operating costs



Located in a **first world country** with **access to world-class, low-cost infrastructure**



Integrated refinery model provides an opportunity to **value-add Authier concentrates** and create **significant shareholder value**



Base case pre-tax NPV of \$140 million and **low enterprise value per tonne of resources** compared to industry peers



Board and management team have **track record of delivering projects**



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