

# TYRANNA

RESOURCES LTD

Angolito

Exploração Mineira (SU), Lda

## HARNESSING ANGOLA'S LITHIUM POTENTIAL

ASX: TYX

121 MINING LONDON

MAY 2024

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## No new information disclaimer

The information in this presentation incorporates technical information reported to the public in announcements submitted to the ASX on 16/05/2022 ("Tyranna Secures Strategic Lithium Exploration Project In Angola"), 30/05/2022 ("Confirmation of High-Grade Assays from Namibe Lithium Project"), 1/08/2022 ("Namibe Lithium Project exploration update"), 22/08/2022 ("Further outstanding results from Namibe Lithium Project"), 12/09/2022 ("Drilling Plan for Muvero Prospect, Namibe Lithium Project"), 13/10/2022 ("Exploration update - Namibe Lithium Project"), 18/10/2022 ("Drilling Commences at the Muvero Prospect"), 07/11/2022 ("Lithium mineralisation intersected at Muvero"), 11/11/2023 ("Amendment to ASX announcement - Lithium mineralisation inter"), 06/12/2022 ("Maiden Drilling of Muvero Completed"), 22/02/2023 ("Maiden drill program intersects 2.02% lithium over 22.75m"), 02/03/2023 ("TYX to examine untested potential of Namibe Lithium Project"), 08/03/2023 ("Outstanding Metallurgy Results from Muvero Prospect"), 04/05/2023 ("TYX Secures Funding and Off Take Partner for over AUD \$31M"), 08/05/2023 ("New Lithium Discoveries at Namibe Lithium Project"), 29/05/2023 ("Assay results demonstrate Lithium mineralisation at Namibe"), 15/06/2023 ("Tyranna executes Offtake Agreement with Sinomine"), 18/07/2023 ("Tyranna ready to complete Sinomine transaction"), 18/07/2023 ("Completion of Sinomine Subscription Agreements"), 15/08/2023 ("Drilling imminent to expand Muvero"), 2/11/2023 ("Drilling at Muvero intersects Lithium Mineralisation"), 7/11/2023 ("ASX Retraction and Clarification"), 16/11/2023 ("Numerous Intersections of Spodumene-Bearing Pegmatites"), 12/12/2023 ("More Spodumene-Bearing Pegmatites Intersected at Muvero"), 01/02/2024 ("Drilling Re-Start Yields Significant Spodumene Intersections"), 08/05/2024 (Muvero - High-grade Lithium, Caesium, Tantalum"). It does not include new or additional technical information which has not been previously publicly reported.

## Competent Person's Statement

The information in this report that relates to exploration results for the Namibe Lithium Project is based on, and fairly represents, information and supporting geological information and documentation that has been compiled by Mr Peter Spitalny who is a Fellow of the AusIMM. Mr Spitalny has a relevant interest in Tyranna Resources Ltd and Angolan Minerals Pty Ltd. Mr Spitalny is employed by Han-Ree Holdings Pty Ltd through whom he provides his services to Tyranna as an Executive Director (Technical). Mr Spitalny has more than five years relevant experience in the exploration of pegmatites and qualifies as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (the JORC Code). Mr Spitalny consents to the inclusion of the technical information in this report in the form and context in which it appears.

# Investment Summary

## A new frontier of high-grade lithium exploration in Namibe, Angola



### FIRST MOVER ADVANTAGE IN HIGHLY PROSPECTIVE LOCATION

200km<sup>2</sup> of tenement holdings consisting of pegmatite field hosting over 1000 individual pegmatites which are exposed within an area spanning 25km long and up to 10km wide.



### FULLY FUNDED TO EXPLORE

Over \$31 million in funding secured in two stages from Sinomine Resource Group and Sinomine International Exploration (Hong Kong) for exploration and development of the project



### OFFTAKE AGREEMENT SECURED

Binding offtake agreement for 50% of the spodumene and 50% of the pollucite with Sinomine including USD\$10,000,000 prepayment.



### ACCELERATING SIGNIFICANT EXPLORATION UPSIDE

- Initial sampling of LCT pegmatites delivering 7.49% Li<sub>2</sub>O as confirmation of its potential.
- 98%+ of pegmatites not yet sampled



### EXCELLENT LOCAL INFRASTRUCTURE

20km from provincial capital (Namibe), deep water ports, grid power and rail infrastructure.



### SUPPORTIVE GOVERNMENT

There is a unanimous expression of support and enthusiasm for the project, including a commitment to assist in its development. Ministerial Approval from the Angolan Government achieved for the transfer of the Namibe Project Licence to Tyranna's 100% owned Angolan subsidiary company, Angolitio Exploracao Mineira (SU) Lda.



### EXPERIENCED LEADERSHIP, TECHNICAL AND DEVELOPMENT EXPERTISE

The Company's experienced technical expertise is now enhanced by the investment by Sinomine Resources Group to the Development expertise of this \$7Billion Market Cap Company.



### STRONG ESG CREDENTIALS

Angolan subsidiary - Angolitio Exploracao Mineira (SU) Lda ("Angolitio"). Greater than 90% local employment with a low carbon footprint. Majority of Namibe's electricity is generated by hydropower and solar power.

# Corporate Snapshot

Fully funded to develop high grade lithium projects in Angola

## Current Capital Structure

**\$29.6M**

Market Capitalisation  
at 31 March 2024

**3.287B**

Issued Capital

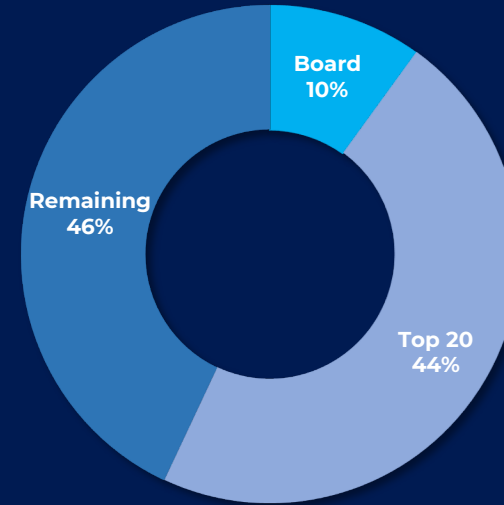
**\$9.0M**

Cash Balance as  
at 31 March 2024  
(inclusive of TYX  
subsidiaries)

**576M**

Options

## Shareholders



Top 5 Shareholders		% of Units
1	MR JASON PETERSON	8.52
2	FRESHWATER RESOURCES PTY LTD <THE ASHTON SUPERFUND A/C>	7.13
3	AFRICAN LITHIUM (HONG KONG) CO. LIMITED (SINOMINE)	5.48
4	MR SHANE PAUL LEHMANN <LEHMANN A/C>	4.03
5	HAN-REE HOLDINGS PTY LTD	3.71

# Directors & Management



## **JOE GRAZIANO** Chairman

Joe has over 30 years' experience providing financial and strategic advice to small cap unlisted and listed public companies and privately owned businesses in WA's resource-driven industries. Since 2014 he has been focused on corporate advisory, company secretarial, strategic planning and Due Diligence with listed corporations including Mergers & Acquisitions, Capital Raisings, Corporate Governance, ASX compliance and structuring. Joe is currently a director of Pathways Corporate a specialised Corporate Advisory business.

## **PAUL WILLIAMS** Executive Director

Paul has been involved in Angola since 2008 and was directly involved with the Longonjo licence currently being developed by Pensana. His initial working years were in accounting, finance and project management and the last twenty years have been in the mining and resources sector with Australian Stock Exchange (ASX) listed companies involved in Australia, Angola, Mauritania and Kenya.

## **PETER SPITALNY** Executive Director (Technical)

Peter is an exploration geologist who has investigated more than 40 lithium pegmatite projects in Australia or globally. He was principal technical advisor to AVZ Minerals Ltd during the early exploration of the Manono Lithium and Tin Project in the DRC, leading to definition within the Roche Dure pegmatite of the largest hard-rock lithium Mineral Resource in the world.

## **DAVID WHEELER** Non-Executive Director

David has more than 30 years of Senior Executive Management, Directorships, and Corporate Advisory experience. He is a foundation Director and Partner of Pathways Corporate a boutique Corporate Advisory firm that undertakes assignments on behalf of family offices, private clients, and ASX listed companies. David has engaged in business projects in the USA, UK, Europe, NZ, China, Malaysia, Singapore and the Middle East. David has experience on public and private company boards and currently holds several Directorships and Advisory positions in Australian companies.

## **TIM SLATE** Company Secretary

Tim holds a Bachelor of Commerce from the University of Western Australia. He is a Chartered Accountant, an Associate Member of the Governance Institute of Australia and a Graduate of the Australian Institute of Company Directors. Tim has over 15 years' experience providing accounting, secretarial and corporate advice to private and public companies.

## **EDSON PAULO NUNES** Country Manager

Paulo holds a Bachelor's degree in financial management, a MBA in Project Financing and 17 years' experience in the Angolan mining sector. He has been Country Manager and Managing Director for Ozango Minerais, a subsidiary of Pensana Plc. Over the years Paulo has developed a vast network in the government and commercial industries that are necessary to help carry out mining projects in Angola efficiently.

# Project Location

Proximity to infrastructure, 20km from:

 The provincial capital, Namibe, a coastal city in the southwest of Angola, Africa with a population exceeding 300,000

 Deep water Atlantic Ocean ports of Saco and Namibe

 Grid power

 Rail Infrastructure

**Giraul  
Pegmatite  
Field**

Luanda

Namibe

Democratic Republic  
of the Congo

Angola

Zambia

Namibia

# The Muvero Prospect

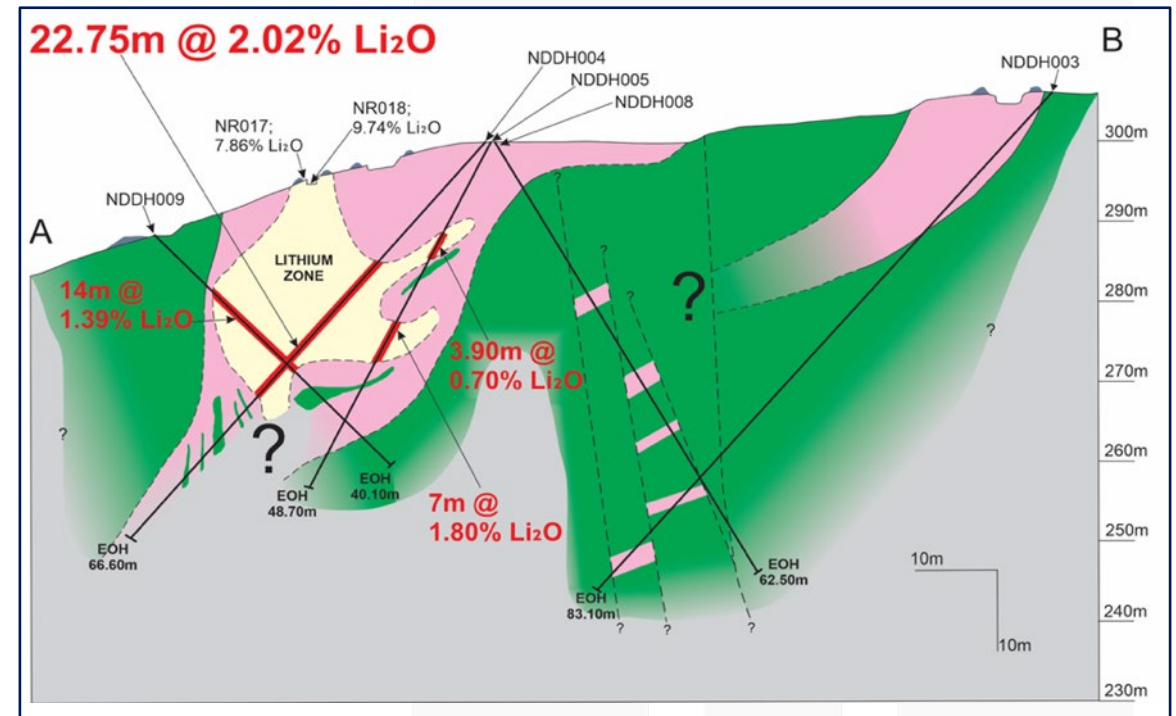
## Early-stage exploration success

Drill-holes NDDH004, NDDH005 and NDDH009 intersected different parts of the same zone of lithium mineralisation, with the following results:

- **NDDH004;** from 20.25m to 43m, 22.75m @ 2.02% Li<sub>2</sub>O
  - including 24m to 31m, 7m @ 3.06% Li<sub>2</sub>O,
  - which contains 1m @ 5.26% Li<sub>2</sub>O from 29m
- **NDDH005;** from 13.10m to 17.00m, 3.90m @ 0.70% Li<sub>2</sub>O
  - And from 26.00m to 32.00m, 7m @ 1.80% Li<sub>2</sub>O
- **NDDH009;** from 10.00m to 24.00m, 14m @ 1.39% Li<sub>2</sub>O
  - Including 14.30m to 19.00m, 4.70m @ 1.95% Li<sub>2</sub>O

The intersection by NDDH004 of an interval of high grades of Caesium by NDDH004 (40m – 41m, 1m @ 23,884ppm Cs, i.e., **1m @ 2.53% Cs<sub>2</sub>O**) suggests that the drill-hole passed through part of a **pollucite** zone. This proves that pollucite is present in at least two parts of the Muvero pegmatite and may prove to be an economically significant component.

## Cross-section AB, displaying intersected zone of high-grade lithium mineralisation.

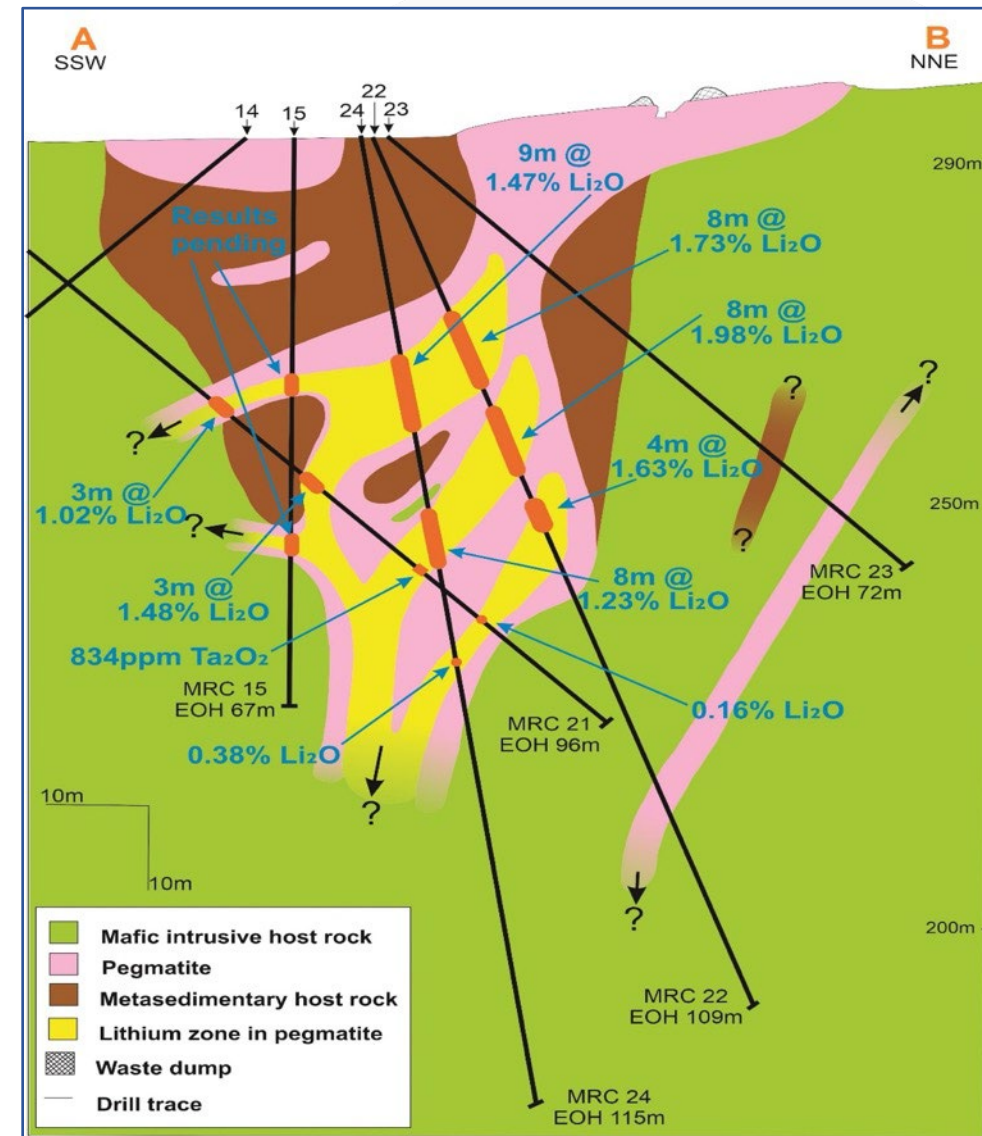


# The Muvero Prospect

## Exploration success continues

Assay results from 14 drill-holes (MRC18 – MRC31) completed as part of the ongoing drilling program at the Muvero Prospect confirm the presence of high-grade lithium (Li) mineralisation, along with caesium (Cs) mineralisation (contained in pollucite) and high-grade tantalum (Ta) mineralisation.

- **Mineralisation in 31m\* interval of MRC22 includes:**
  - 8m @ 1.73%  $\text{Li}_2\text{O}$ ,
  - 8m @ 1.98%  $\text{Li}_2\text{O}$
  - and 4m @ 1.63%  $\text{Li}_2\text{O}$ .
- **Highest lithium result; 1m @ 3.81%  $\text{Li}_2\text{O}$  in MRC21**
- **Highest caesium result; 1m @ 4.37%  $\text{Cs}_2\text{O}$  in MRC25**
- **Highest tantalum result; 1m @ 834ppm  $\text{Ta}_2\text{O}_5$  in MRC21**
- **Confirmation that pollucite (caesium mineral) is present at more than one point.**
- **Numerous high-grade intervals of tantalum (Ta) mineralisation**
- **Tantalum mineralisation potentially valuable component of Muvero**



**Cross-section of drill-holes MRC15, 21, 22, 23 and 24.**

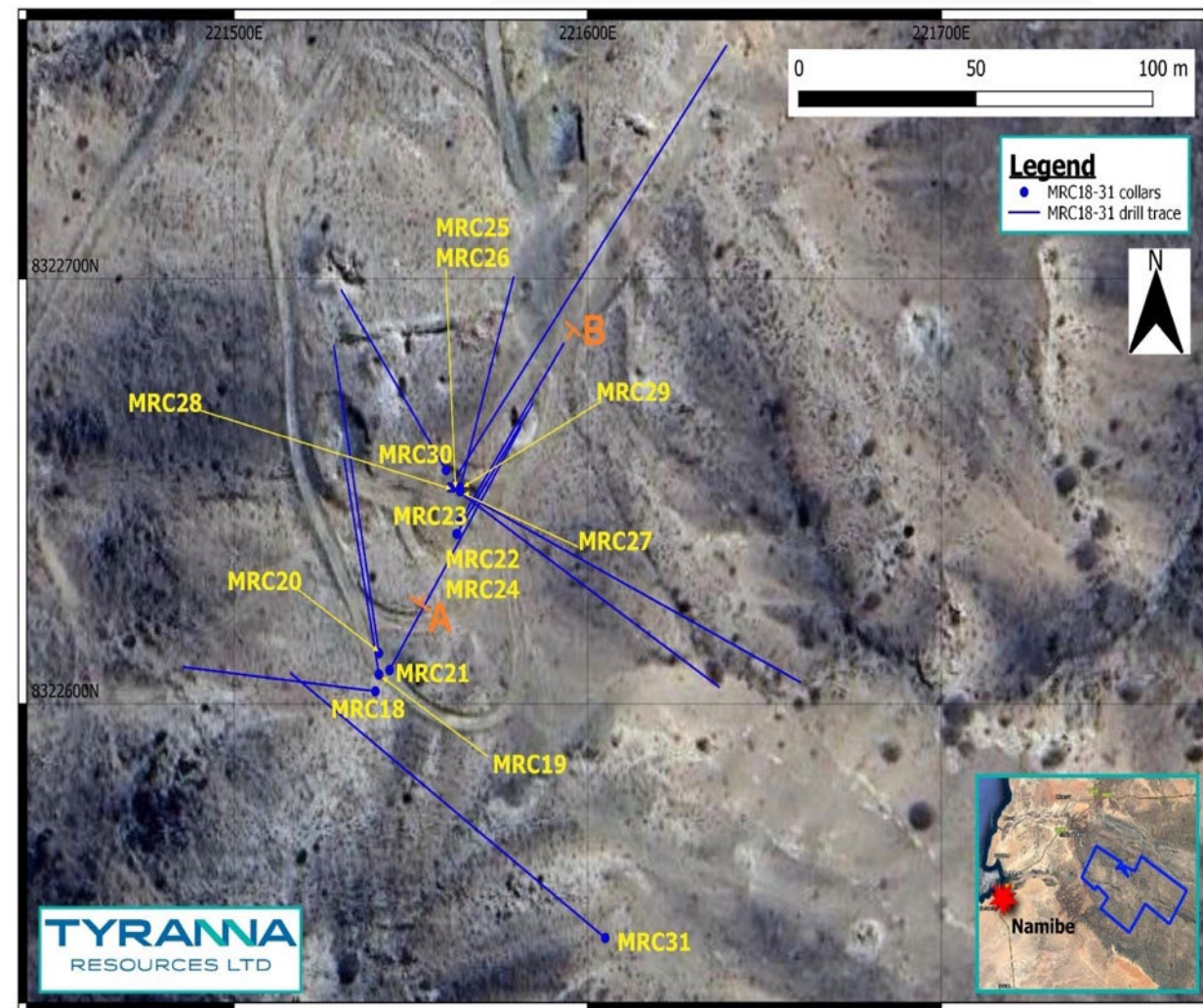


# The Muvero Prospect

## Exploration success continues

The average intersection of lithium mineralisation in the defined lithium-rich zones intersected by the reported drill-holes (MRC18 – MRC31) is **1.54% Li<sub>2</sub>O** per metre, and the average intersection of significant tantalum mineralisation, some of which is not associated with lithium mineralisation, is **245ppm Ta<sub>2</sub>O<sub>5</sub>** per metre.

**In both cases, the average grades compare favourably with the average grades of currently operating lithium and tantalum mines**, in which the typical grades of defined Mineral Resources vary from approximately **1.0% Li<sub>2</sub>O to 1.5% Li<sub>2</sub>O**, and for those with significant tantalum production, typical grades of defined Mineral Resources vary from approximately **100ppm Ta<sub>2</sub>O<sub>5</sub> to 400ppm Ta<sub>2</sub>O<sub>5</sub>**



Drill plan displaying MRC18 – MRC31.

# The Muvero Prospect

## Outstanding metallurgy results

- **Exceptional concentrate** quality produced at high recovery
- Concentrate Grade of **6% Li<sub>2</sub>O** or more
- **Low Impurities**, e.g., < 0.11% Fe<sub>2</sub>O<sub>3</sub>
- **80%– 82% Recovery**
- Spodumene concentrate can be produced from either 12mm or 8mm crush, **much coarser than most deposits**
- XRD confirms **spodumene dominates the lithium mineralisation**
- Results support potential of Muvero to be a **source of high-grade Direct Shipping Ore (DSO)**

*The pit that the rubble collected as the bulk sample originated from.*

The Heavy Liquid Separation data confirms high grade concentrates **containing** low iron can be produced at high mass recoveries.

Sample	SG Fraction	Mass %	Assay			Department		
			% Li <sub>2</sub> O	% Fe <sub>2</sub> O <sub>3</sub>	% K <sub>2</sub> O	Li <sub>2</sub> O	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O
<b>Head</b>			<b>3.758</b>	0.11	2.09			
<b>-12.5+0.85mm</b>	3.1SX	21.93	<b>7.527</b>	0.24	0.11	42.50%	46.46%	1.13%
	3.1FT	16.52	<b>6.989</b>	0.17	0.43	29.72%	24.78%	3.27%
	2.9FT	15.68	<b>4.246</b>	0.12	7.12	17.14%	16.60%	51.97%
	2.7FT	43.27	<b>0.916</b>	0.03	2.08	10.20%	11.46%	41.87%
	2.5FT	2.60	<b>0.652</b>	0.03	1.44	0.44%	0.69%	1.75%
<b>-8+0.85mm</b>	3.1SX	21.31	<b>7.843</b>	0.16	0.09	44.63%	41.23%	0.91%
	3.1FT	14.38	<b>7.047</b>	0.15	0.35	27.05%	26.08%	2.34%
	2.9FT	17.70	<b>3.975</b>	0.10	7.09	18.79%	21.41%	58.32%
	2.7FT	45.65	<b>0.774</b>	0.02	1.79	9.44%	11.04%	37.88%
	2.5FT	0.96	<b>0.359</b>	0.02	1.23	0.09%	0.23%	0.54%



# The Muvero Prospect

## Next phase of exploration continues to yield significant spodumene Intersections

- ✔ With over 1,500 samples to be assayed the news-flow will be significant over the coming months.
- ✔ Drilling at the Muvero Prospect will continue next month, extending into the second half of CY2024, followed by drilling at the Loop Prospect.
- ✔ The amount of drilling to be expanded to ensure resource modelling can begin in second half of 2024.
- ✔ Access to other prospects and site preparation ongoing to ensure continued exploration and identification of new drilling targets.



# TYRANNA

RESOURCES LTD

## Contact Us

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