

# EXPLORING AUSTRALIA'S MOST EXCITING CRITICAL MINERALS HOTSPOT

Corporate Presentation  
27 July 2023

Michael Walshe  
Chief Executive Officer

<sup>3</sup> Li	<sup>59/60</sup> REE	<sup>28</sup> Ni	<sup>29</sup> Cu	<sup>27</sup> Co	<sup>46/78</sup> PGE	<sup>79</sup> Au	<sup>25</sup> Mn
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## COMPETENT PERSON'S STATEMENT

The information in this announcement that relates to Exploration Results is based on and fairly represents information compiled by Mr Claudio Sheriff-Zegers. Mr Sheriff-Zegers is employed as an Exploration Manager for Voltaic Strategic Resources Ltd and is a member of the Australasian Institute of Mining and Metallurgy. He has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. He consents to the inclusion in this announcement of the matters based on information in the form and context in which they appear.

# Section – 01

Profile  
Projects  
Outlook



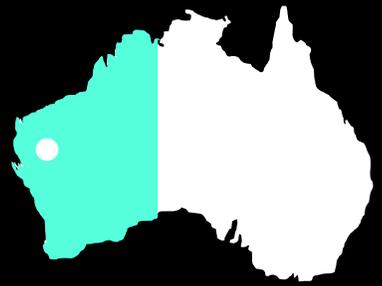
# The right place, the right time

Strategically located critical metals portfolio led by lithium, rare earths, base metals and gold.

Accomplished corporate and technical team with extensive experience in REEs and other critical minerals.

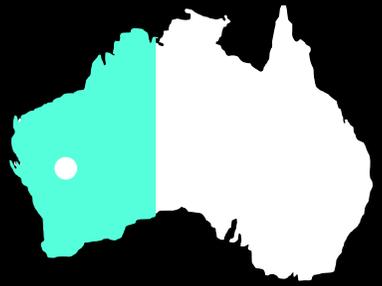
Growth potential – low Enterprise Value, leveraged to exploration success.

Five projects in exploration hotspots vastly under-explored for critical metals.



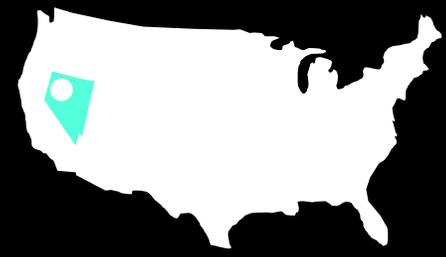
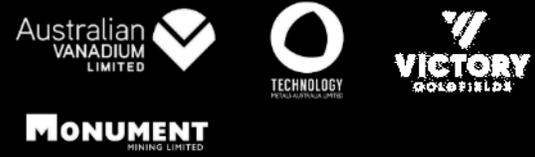
## Gascoyne Region Western Australia

- Emerging critical minerals province (REE, Li, Ni-Cu-Co-PGE).
- Active neighbours in the region.



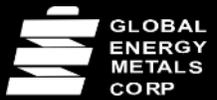
## Meekatharra Region Western Australia

- Established gold district with two vanadium development projects.
- Active neighbours in the region.



## Stillwater Range Nevada, USA

- Ni-Cu-Co project containing formerly producing Co mine.
- Global Energy Metals adjacent.



# Corporate Snapshot

ASX:VSR

Share price

**A\$3.6**

26 July 2023  
52 week high \$0.125, low \$0.014

Market capitalisation

**A\$17.4m**

26 July 2023

Debt

**Zero**

31 March 2023

Shares on issue

**565m**

31 July 23\*

Cash

**A\$9.0m**

31 July 2023\*

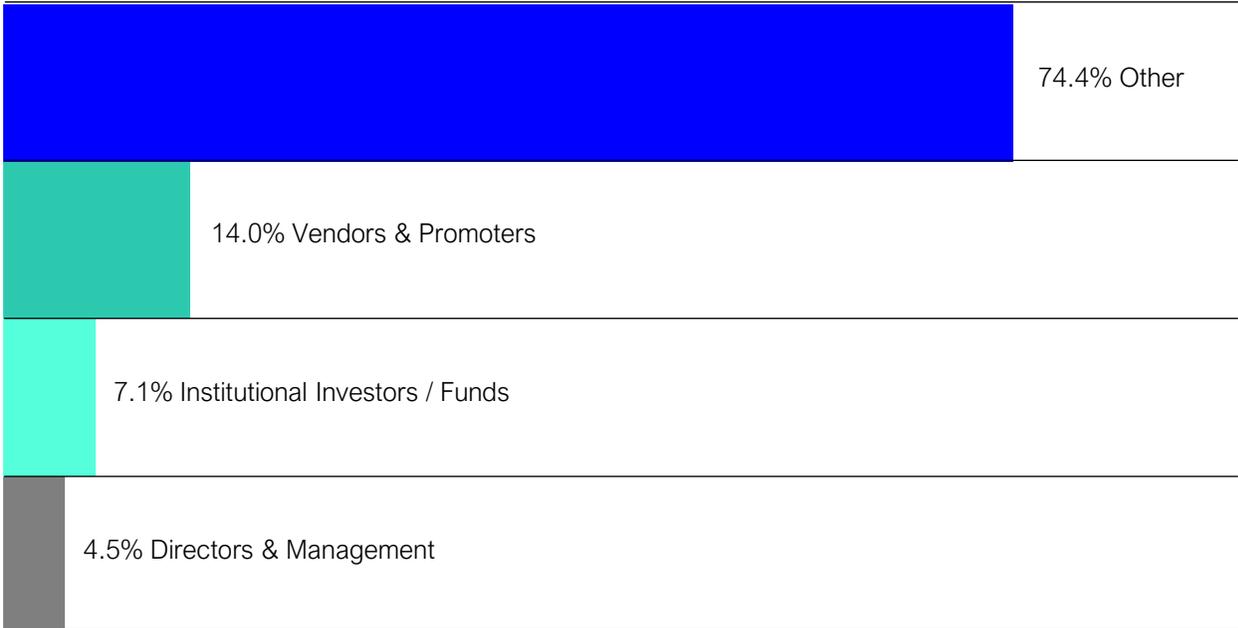
Options

**283m**

30 July 2023\*



## Ownership Undiluted



# Board and Senior Management

Proven discovery and corporate track record with strong technical expertise



**John Hannaford**  
Chairman

BCom, CA, FFin

An experienced corporate executive with extensive experience in the ASX resources sector as a Corporate Advisor, Executive, Chairman, company promoter and investor. Qualified Chartered Accountant and Fellow of the Securities Institute of Australia. Experience in ASX financing, IPOs, RTOs, mergers and acquisitions.



**Michael Walshe**  
Chief Executive Officer

B.Eng. (Hons) Chem., MIEAust  
CPEng, MBA (Finance), MAusIMM

Over 15 years of international experience in engineering, operations, technology commercialisation, and project development across the minerals, chemicals, and renewable energy sectors. Spent 10 years with Metso Outotec, in various technical and senior management roles, covering all major commodities including lithium, rare earths, gold, and base metals.



**Lachlan Reynolds**  
Non-Executive Director

BSc (Hons), MAusIMM, MAIG

Strong geological background with more than 25 years' involvement in mineral exploration, project development and mining. Worked with major mining groups including WMC in gold, nickel, copper and uranium projects covering a number of different regions. Served as an executive and senior manager for several ASX listed companies. Currently the MD of Mt Monger Resources Limited (ASX:MTM).



**David Izzard**  
Non-Executive Director

B.Bus., CPA, MBA, MSc, GAICD

Highly experienced Executive and Non-Executive Director with extensive skills in all aspects of financial and commercial management at a senior executive level in both listed and unlisted companies. Instrumental in the formulation of joint ventures and distribution agreements, and steering companies through successful capital raising, IPOs and trade sale.



**Simon Adams**  
CFO & Company Secretary

B.Bus., M. Acc.

Over 25 years of experience with listed (ASX and NASDAQ) and private companies in Australia where he has filled various executive roles across a range of industries including mining, aquaculture, finance and most recently in the upstream energy sector. Experience in the areas of corporate and financial management, corporate compliance and business development. Member of the Governance Institute of Australia.



**Claudio-Sheriff-Zegers**  
Exploration Manager

BSc Minerals Exploration and Mining  
Geology, MAusIMM

Discovered Asra Minerals' (ASX:ASR) Yttria REE and Critical Minerals deposit and was involved in Northern Minerals' (ASX:NTU) Browns Range Wolverine HREEs discovery. His expertise of mineralised systems throughout Australia, Indonesia and Chile covers target generation and systematic ranking, exploration and discovery through to resource drill-out, across a wide range of deposit types.

# Section – 02

Profile  
**Projects**  
Outlook



# Gascoyne projects

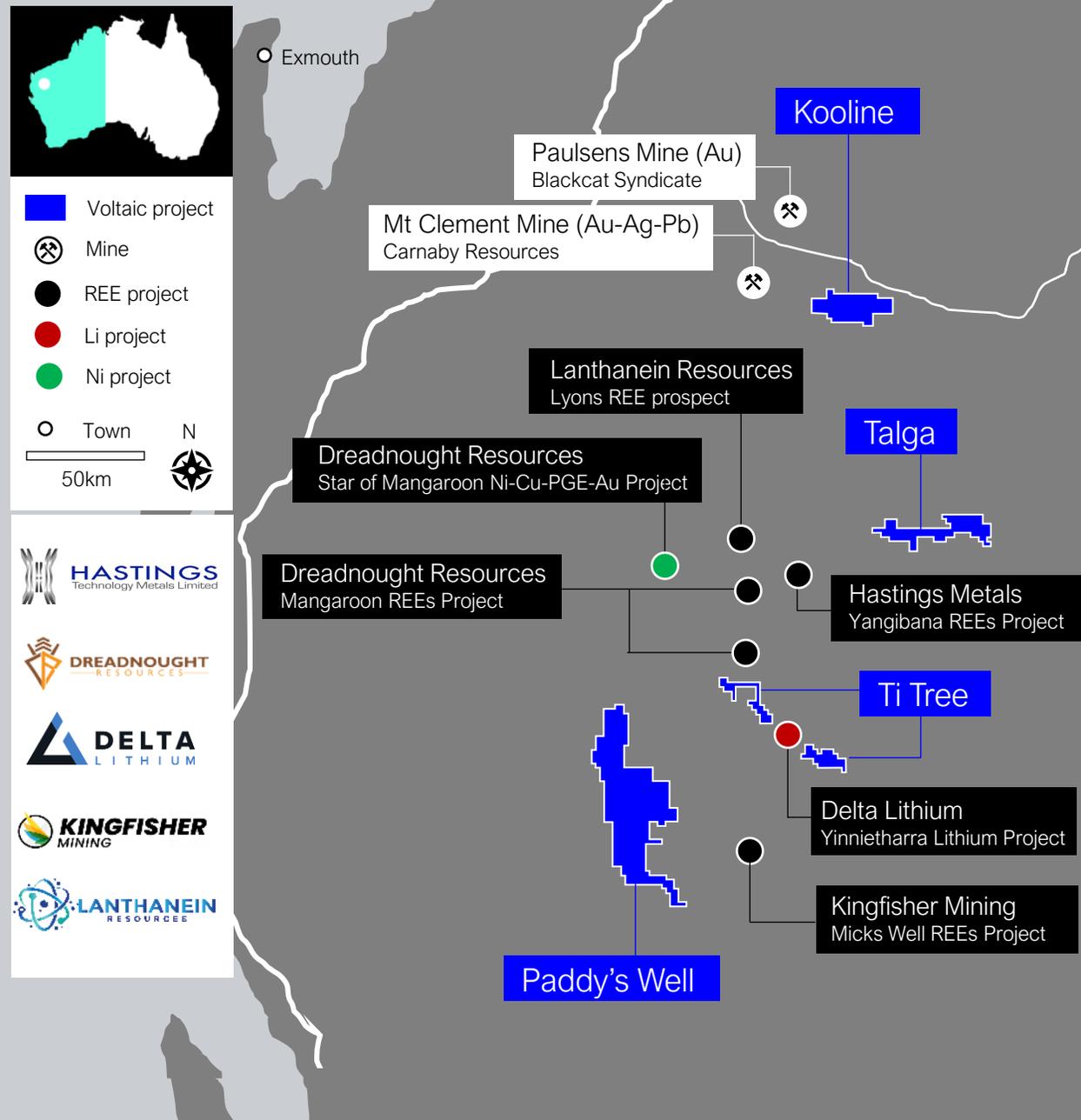
## Critical metals portfolio in Western Australia's most exciting exploration hotspot.

### Primary Project 1 Ti Tree Lithium Project

- >200 km<sup>2</sup> project with no prior systematic exploration for lithium.
- Neighbour to Delta Lithium's (ASX:DLI) Yinnietharra Li project where a 90,000m drill program & early results of 56m @1.12% Li<sub>2</sub>O\*. Acquired for A\$25M (\$50k/km<sup>2</sup>).
- Maiden drilling at Andrada - encouraging pegmatite widths with LCT anomalism ⇒ indicates Andrada may represent outer halo of larger mineralised system at depth

### Primary Project 2 Paddy's Well REEs Project

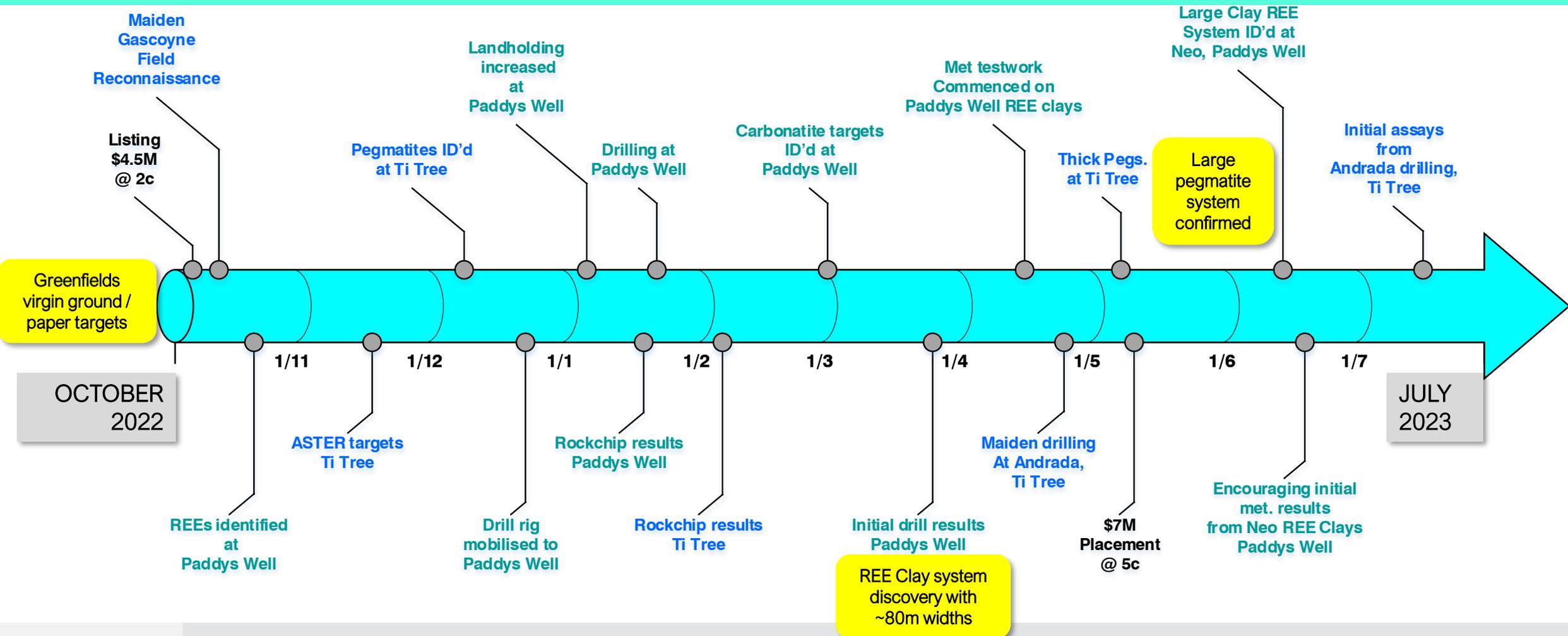
- Large landholding (1,300km<sup>2</sup>) in highly active REE\*\* exploration 'hotspot'.
- Both primary carbonatite and clay-hosted REE potential.
- Widespread anomalous REEs identified from drilling (~80m intervals from surface). Metallurgical leaching tests underway
- Further ground acquired to the west along prospective REE corridor.



# Rapid Exploration Progress Since Listing

- Honouring our pledges to shareholders
- Continual exploration newsflow
- Progressive value-add

Progressing two grassroots / greenfields projects through to maiden drilling stage in < 6 months



# Ti Tree Lithium Project

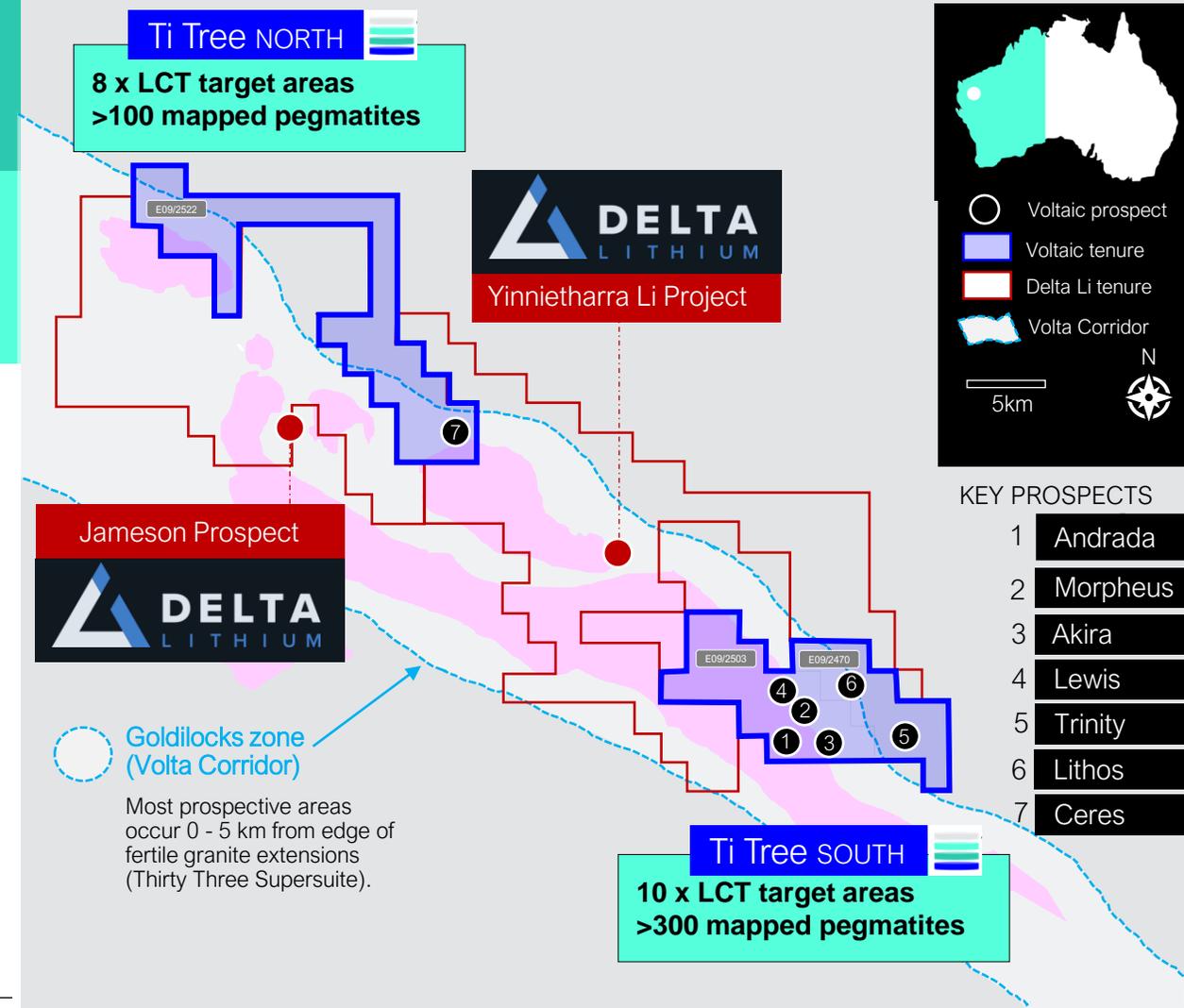
Located within Volta Corridor, an 80km prospective corridor with potential to be WA's next lithium district.

Maiden drilling started in May 2023 at Andrada Prospect, with planning for Phase III underway

- **Thick, stacked pegmatite system identified:**
  - Initial drilling has tested ~2.6km of strike every ~300m across two prospective LCT trends:
  - Both trends display significant width / continuity and zones with multiple **stacked pegmatites** at depth → **Highly encouraging indicators for regional scale potential**
  - Progressive increase in lithium-caesium-tantalum (LCT) grades with depth & tantalum also increasing radially outward to the north / northeast.
  - Most prospective parts yet to be tested with **400+ pegmatites mapped, and 18 regional prospect areas identified.**
  - Deeper drilling required to fully understand the potential.
  - Only ~ 10% of 212 km<sup>2</sup> tenure tested to date

Growing lithium neighbourhood

- **Nearby Yinnietharra Lithium Project acquired by Delta Lithium for A\$25m in late 2022.**
  - Highly aggressive 90km drill program underway by Delta with early results of 56m @1.12% Li<sub>2</sub>O\*.



**Volta Corridor**  
Over 80km cumulative strike length of outcropping pegmatites identified within interpreted prospective LCT Volta corridor, 40km of which underlays Voltaic's tenure.

# Maiden Drilling at Andrada

## Thick, stacked pegmatite system

- Drilling has tested a combined 2.6km of strike every ~300m across two prospective LCT trends:
- Both trends tested display significant width & stacked config. → Highly encouraging indicators for regional scale potential
- Encouraging pegmatite widths with LCT anomalism ⇒ Andrada may represent outer halo of larger mineralised system at depth
- Several encouraging indicators incl. occurrence of typical LCT accessory minerals including beryl, muscovite, & tourmaline



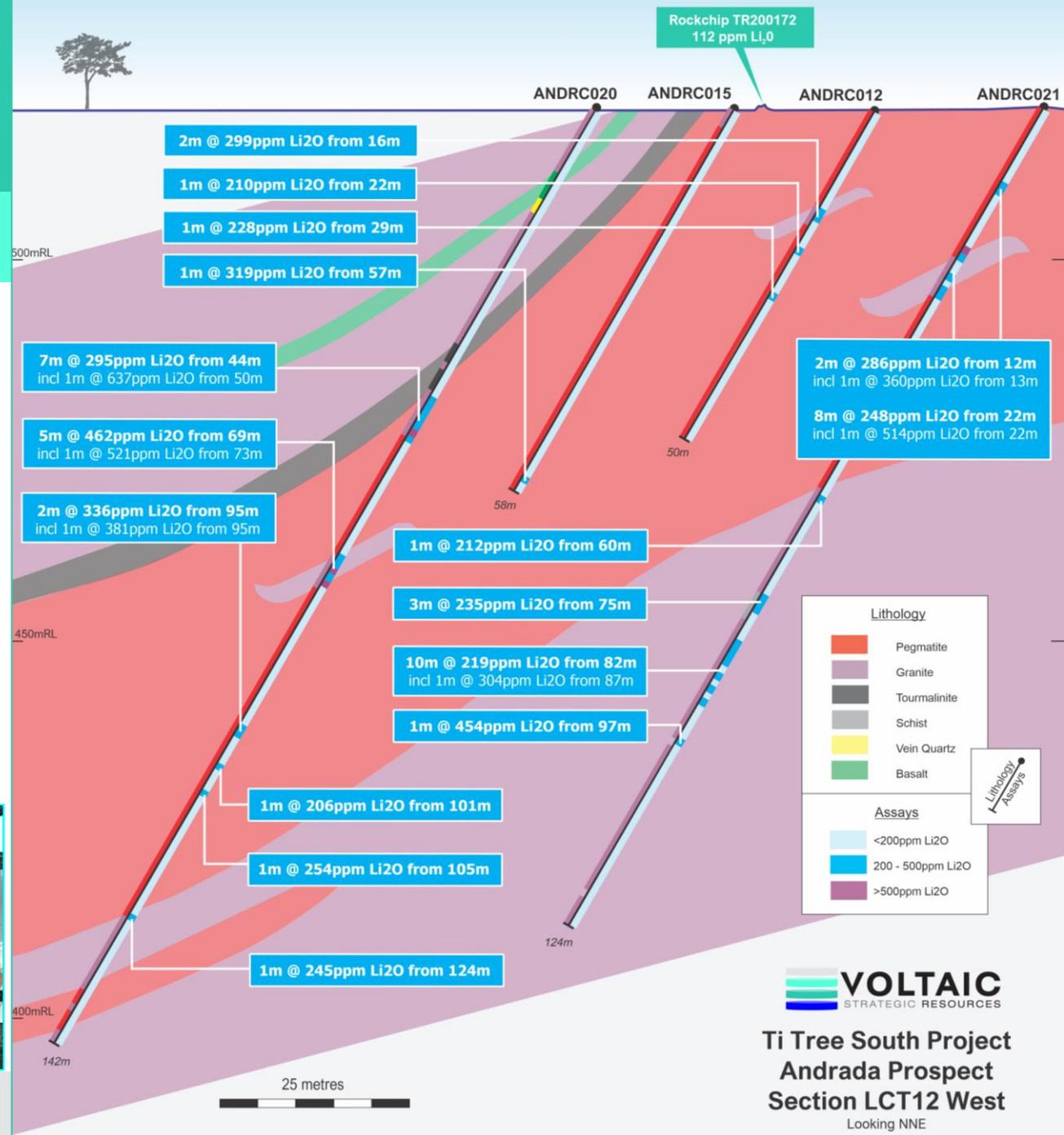
Beryl



Tourmaline

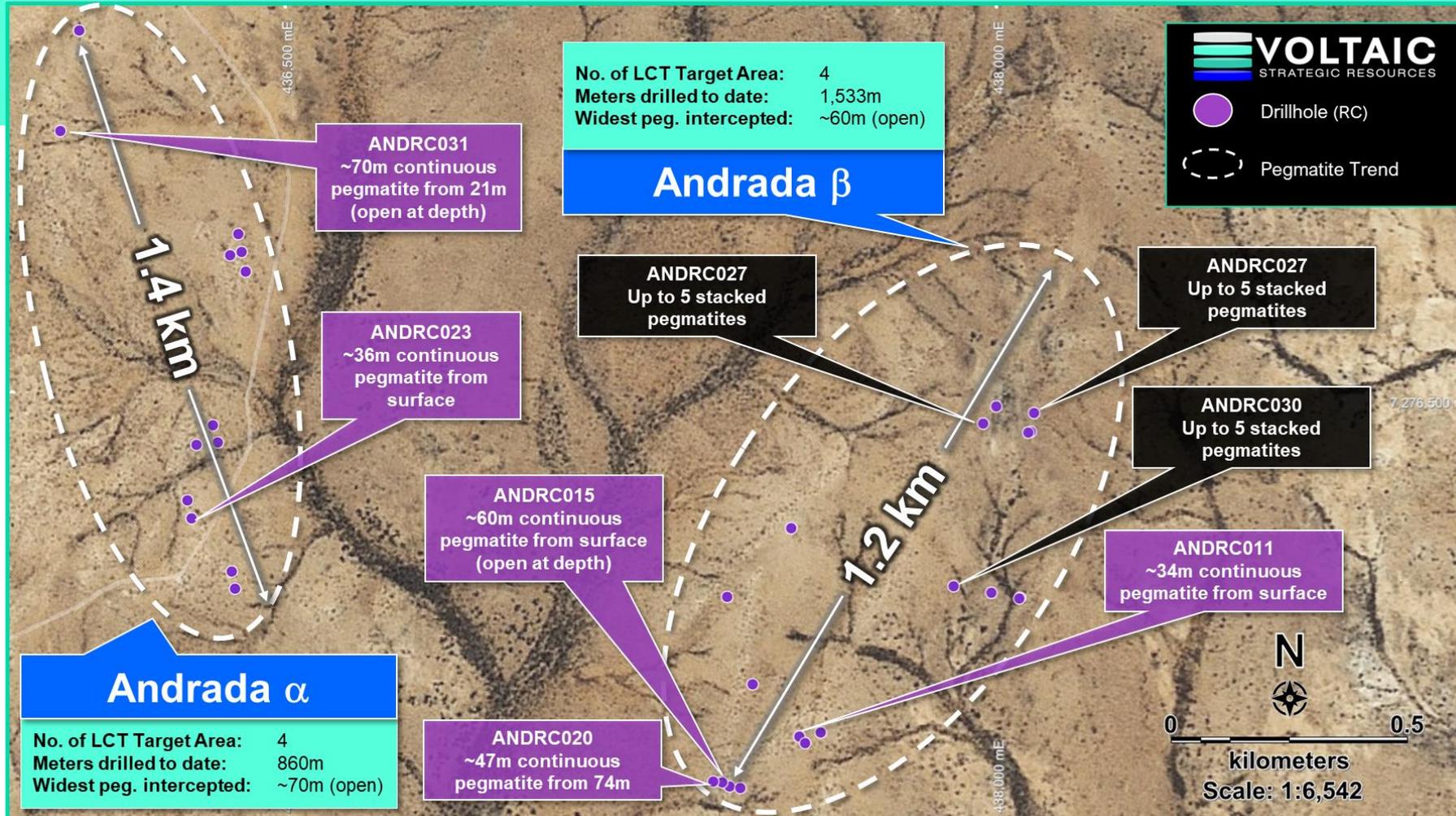
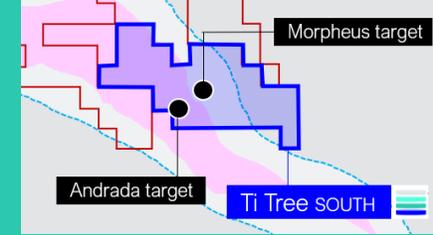


Giant tourmaline crystals



# Maiden Drilling at Andrada

Stacked thick pegmatite system identified - open along strike and at depth

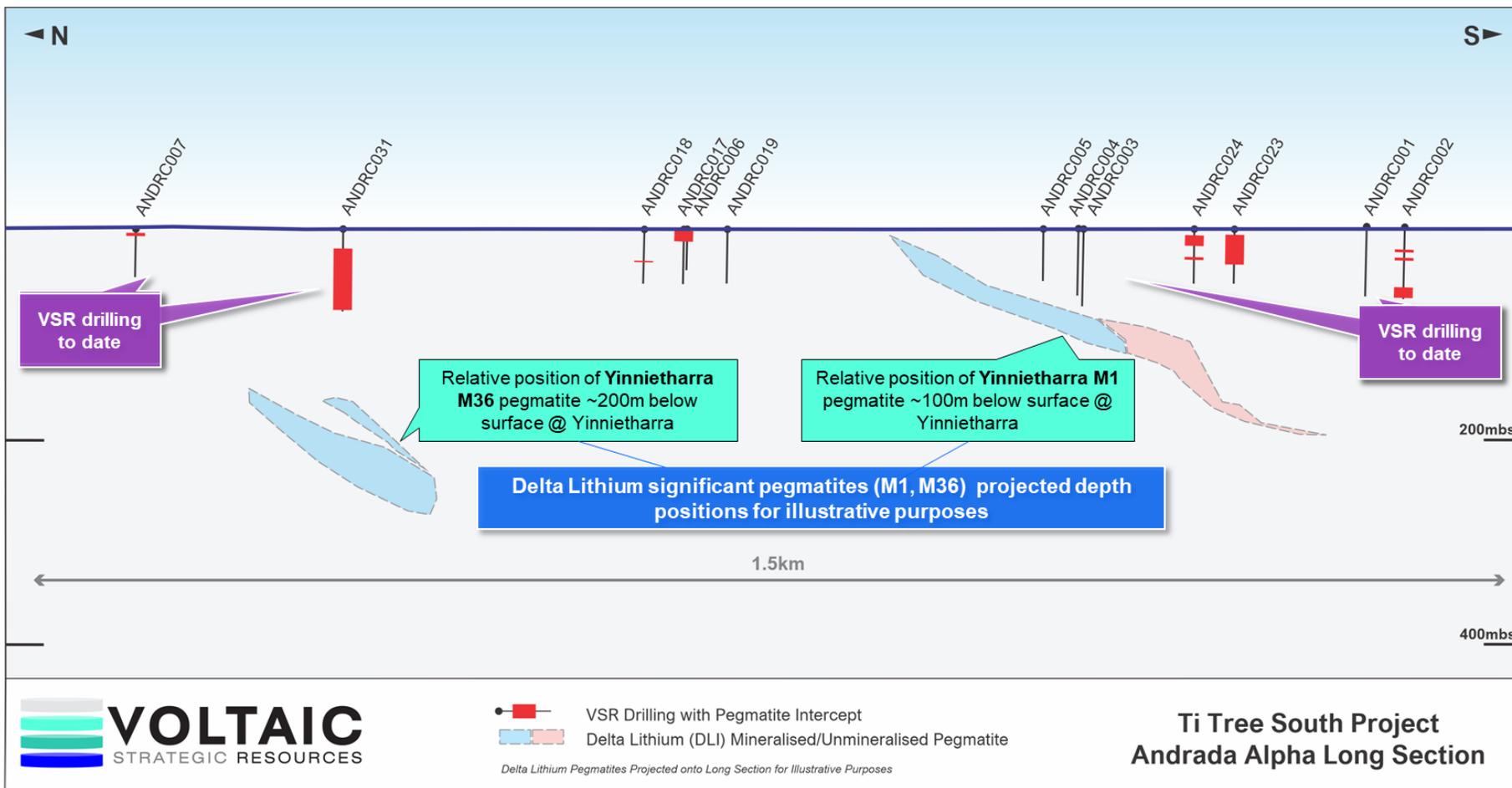


# Ti Tree (South) – shallow holes completed thus far

## Regional significant pegmatites encountered at Yinnietharra ⇒

- illustrate that the prime mineralised parts of that system are emplaced at depths of at least +100m below surface,
- Voltaic’s current shallow drill holes shown for context

See ASX:DLI release dated 23/06/2023, ‘Stunning Drilling Results from Yinnietharra’.

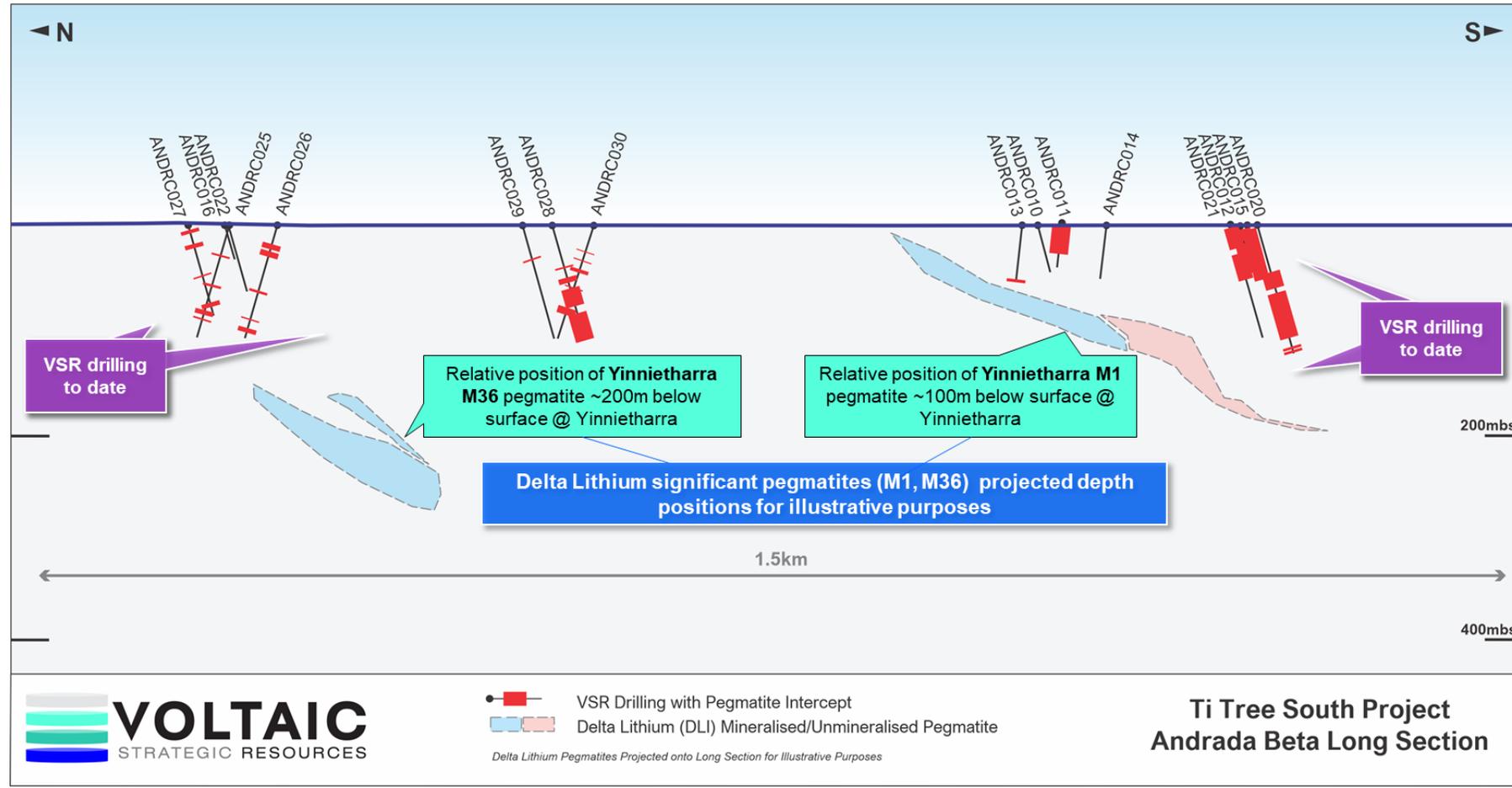


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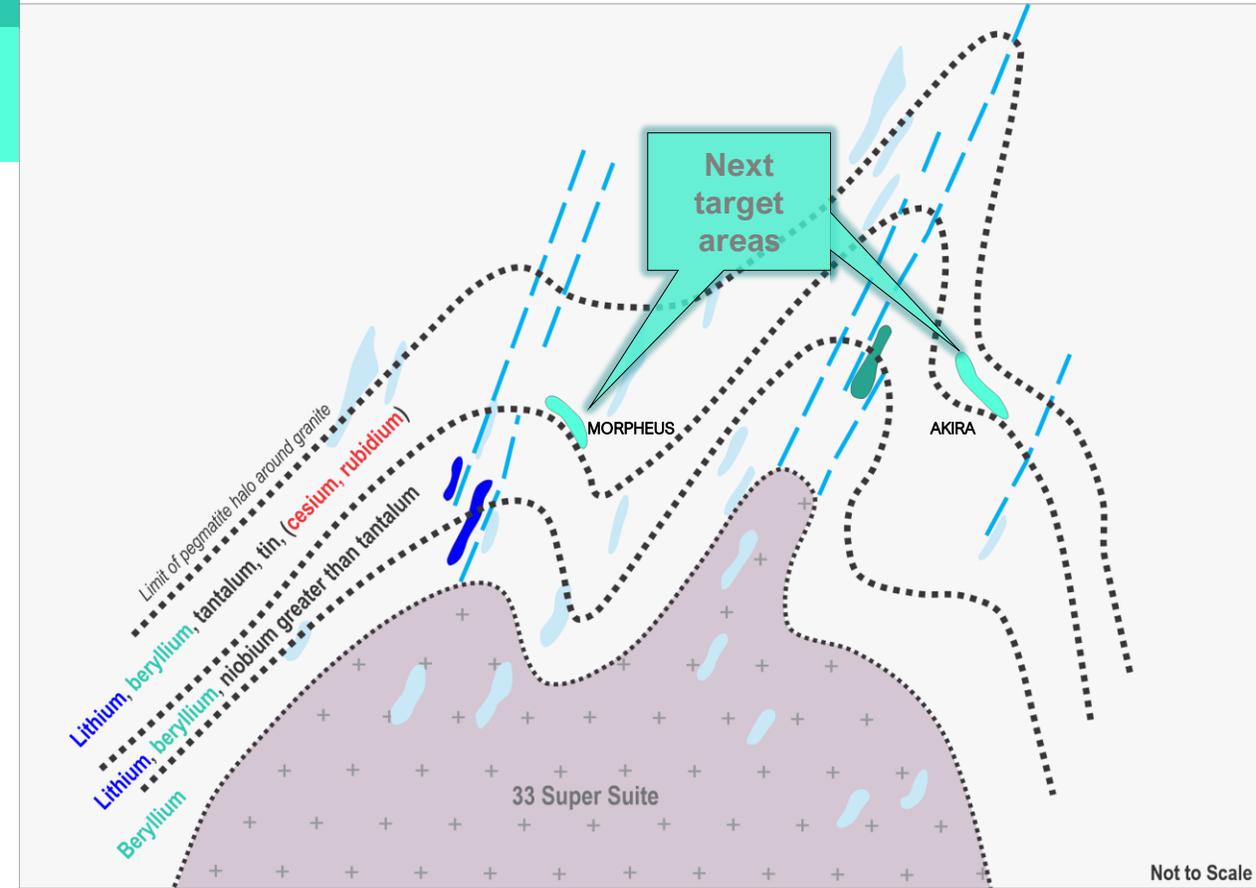
# Ti Tree Lithium Project

## Schematic of Interpreted Regional Zoning Pattern of Albite-Rich Pegmatite Trends

### Drilling has confirmed Andrada pegmatites are conformable to the classic LCT 'Goldilocks' model

#### Zonation & fractionation increasing outward from parental granite source

- Insights from initial results show a progressive increase in lithium-caesium-tantalum (LCT) grades with depth & tantalum also increasing radially outward to the north / northeast
- Progressive enrichment in LCT grades at shallow depths and over substantial widths,
- tantalum increasing radially outward to the north / northeast towards Morpheus
- Predominance of albite as the dominant feldspar within the pegmatites,
- Zones of extreme fractionation and zonation with very coarse crystal sizes,
- Occurrence of typical LCT accessory minerals including beryl, muscovite, and tourmaline



#### KEY

- Metasedimentary Country Rock
- 33 Super Suite Pegmatitic Granite
- Pegmatite
- Boundary between zones of rare-element enrichment
- Interpreted Fault

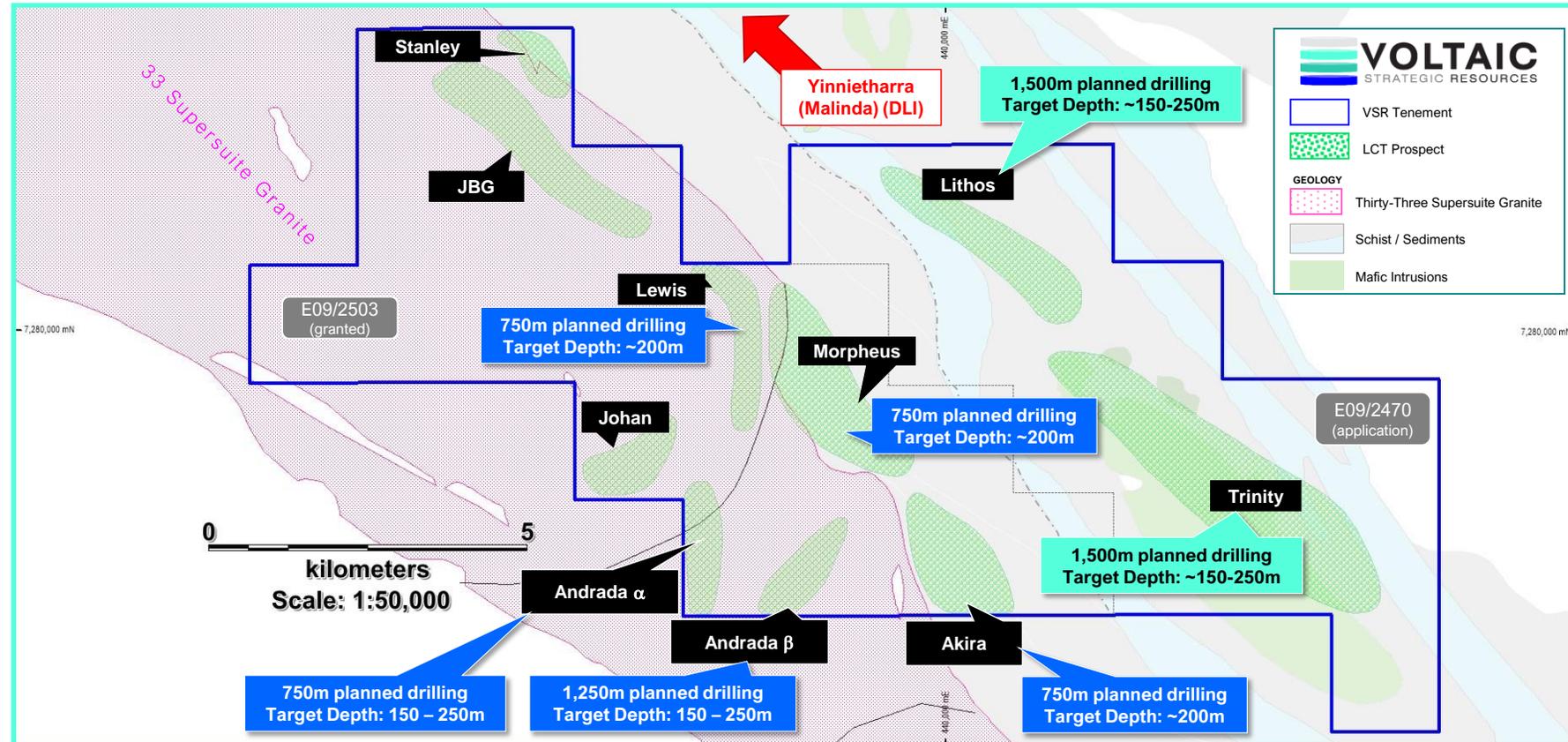
#### VSR Albite-Rich Pegmatite Trends by Prospect

- Andrada Alpha Prospect
- Andrada Beta Prospect
- Morpheus / Akira Prospect

# The Next phase of drilling planned at Ti Tree (South)

Regional pXRF soil survey & geological mapping now underway to identify new drill targets at 'Morpheus', 'Lewis' & 'Akira'

- Maiden ~2,500m of RC drilling planned at Morpheus, Lewis & Akira.
- Further down-dip deeper drilling also planned at Andrada to:
  - Delineate bounding lithological contacts, &
  - Examine untested LCT potential plunge target areas.
- Drill campaign logistics & access underway & several POW applications already approved
- Targeting drilling commencement in Mid-August 2023.



Planned next phases of drilling across Ti Tree South - E09/2503 (granted), E09/2470 (pending)

# The Next phase of drilling planned at Ti Tree (South)

## Planned next phases of drilling across Ti Tree South

Prospect	Drill Phase	Planned Start	Purpose	Planned Drilling (m)	Max Depth (m)
Andrada $\alpha$	3	August 2023	Follow-up to phase 1 / 2.	750	250
Andrada $\beta$	3	August 2023	→ Find bounding lithological contacts at existing thick pegs. → Test additional LCT targets	1,250	250
Morpheus	3	August 2023	Maiden exploration / reconnaissance drilling	750	200
Akira	3	October 2023	Maiden exploration / reconnaissance drilling	750	200
Lewis	3	October 2023	Maiden exploration / reconnaissance drilling	750	200
Trinity	4	TBC (prelim. Q4 2023)	Maiden exploration / reconnaissance drilling	1,500	250
Lithos	4	TBC (prelim. Q4 2023)	Maiden exploration / reconnaissance drilling	1,500	250

## Pegmatite outcrop at Morpheus prospect



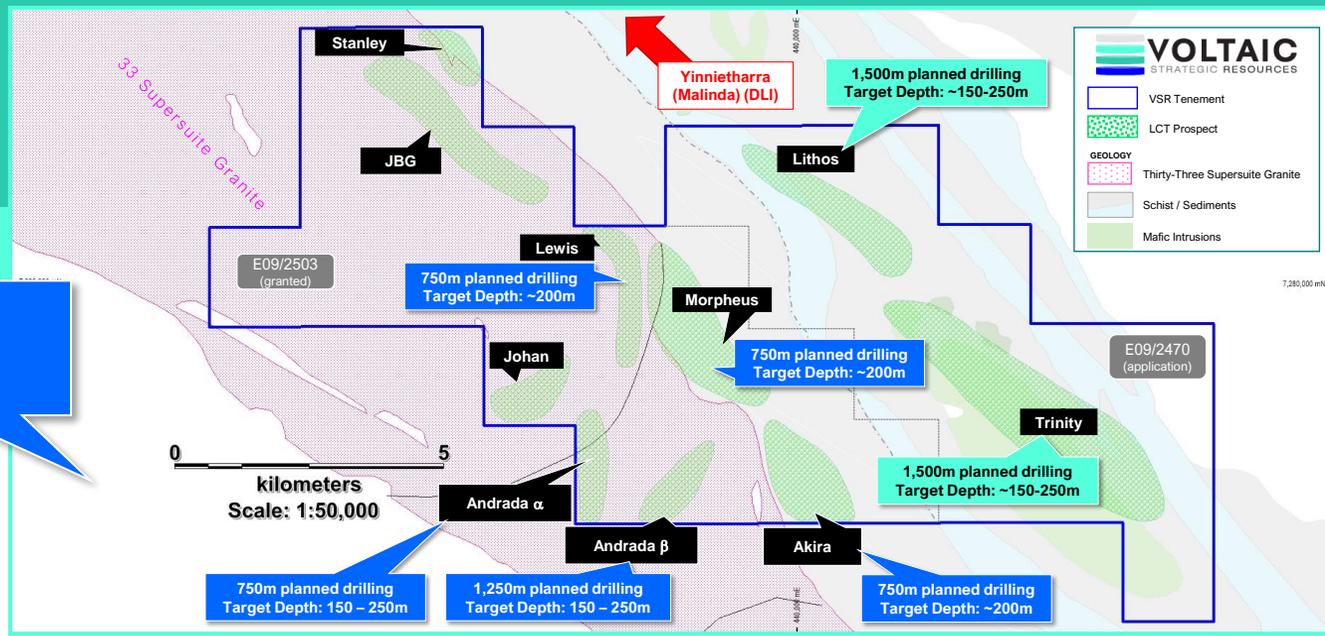
TTSRK310 coordinates: 436586E, 7278652 N

# Large number of regional targets

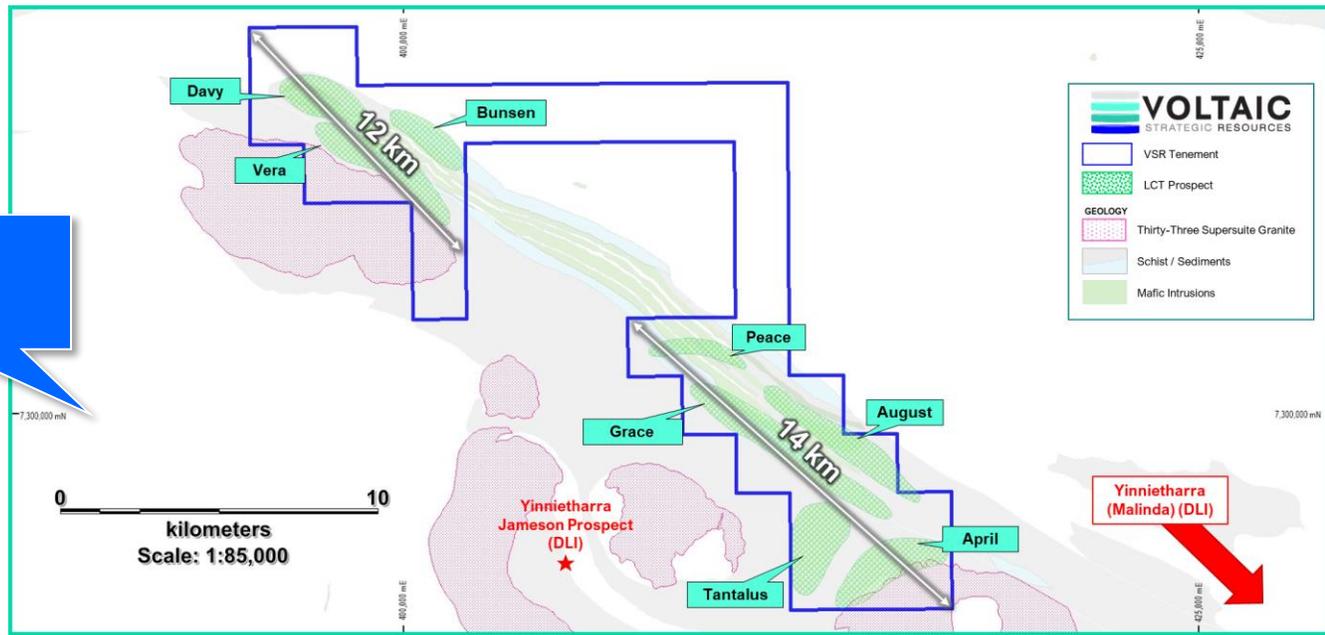
## 18 regional target areas identified

- Large number of regional targets already identified with only a fraction of the tenure explored to date.
- Targets will be systematically tested
- Airborne drone magnetic / radiometric & photogrammetry surveys to commence ~early August which will assist with target generation

**Ti Tree South**

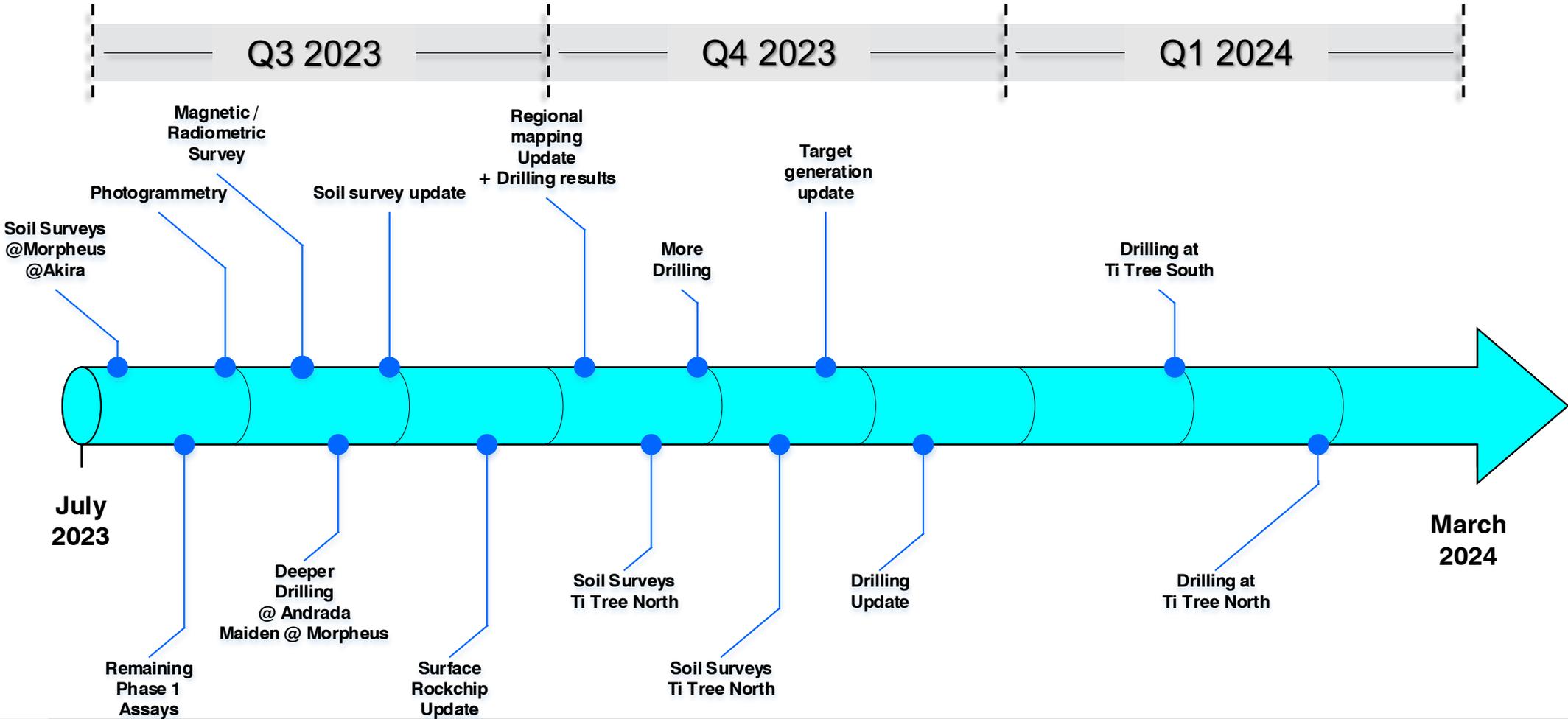


**Ti Tree North**



# Ti Tree Lithium Project

## 3 quarter lookahead



# Paddy's Well REEs Project



## Widespread REEs confirmed with both primary carbonatite targets and clay-hosted potential

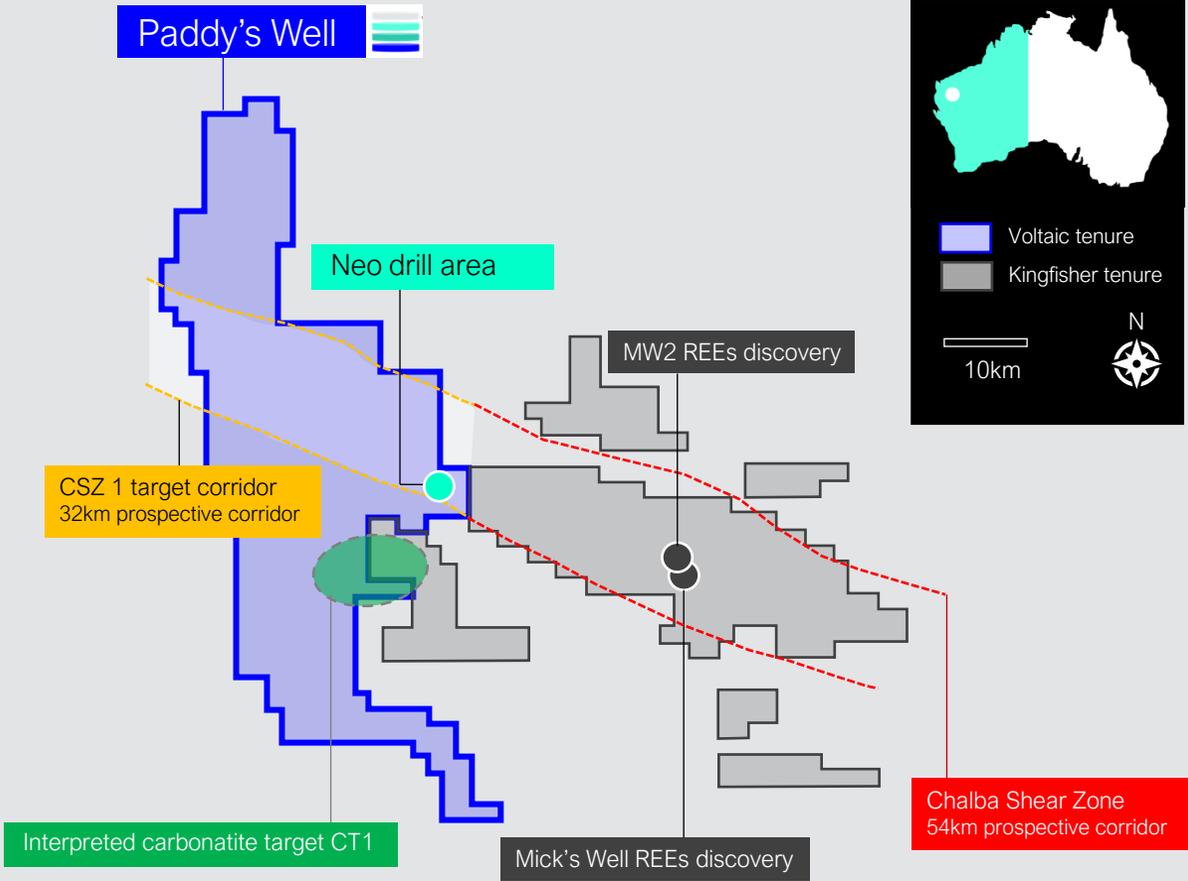
Large highly prospective area for REEs / Critical Minerals

- Both primary carbonatite and clay-hosted REE potential
- Widespread anomalous REEs identified from drilling
- 32km strike extension to Kingfisher Mining's 54km prospective REEs corridor
- Phase 1 drilling complete – large REE-clay system confirmed with thicknesses of up to ~80m from surface



Chip tray NEORB002

Paddy's Well

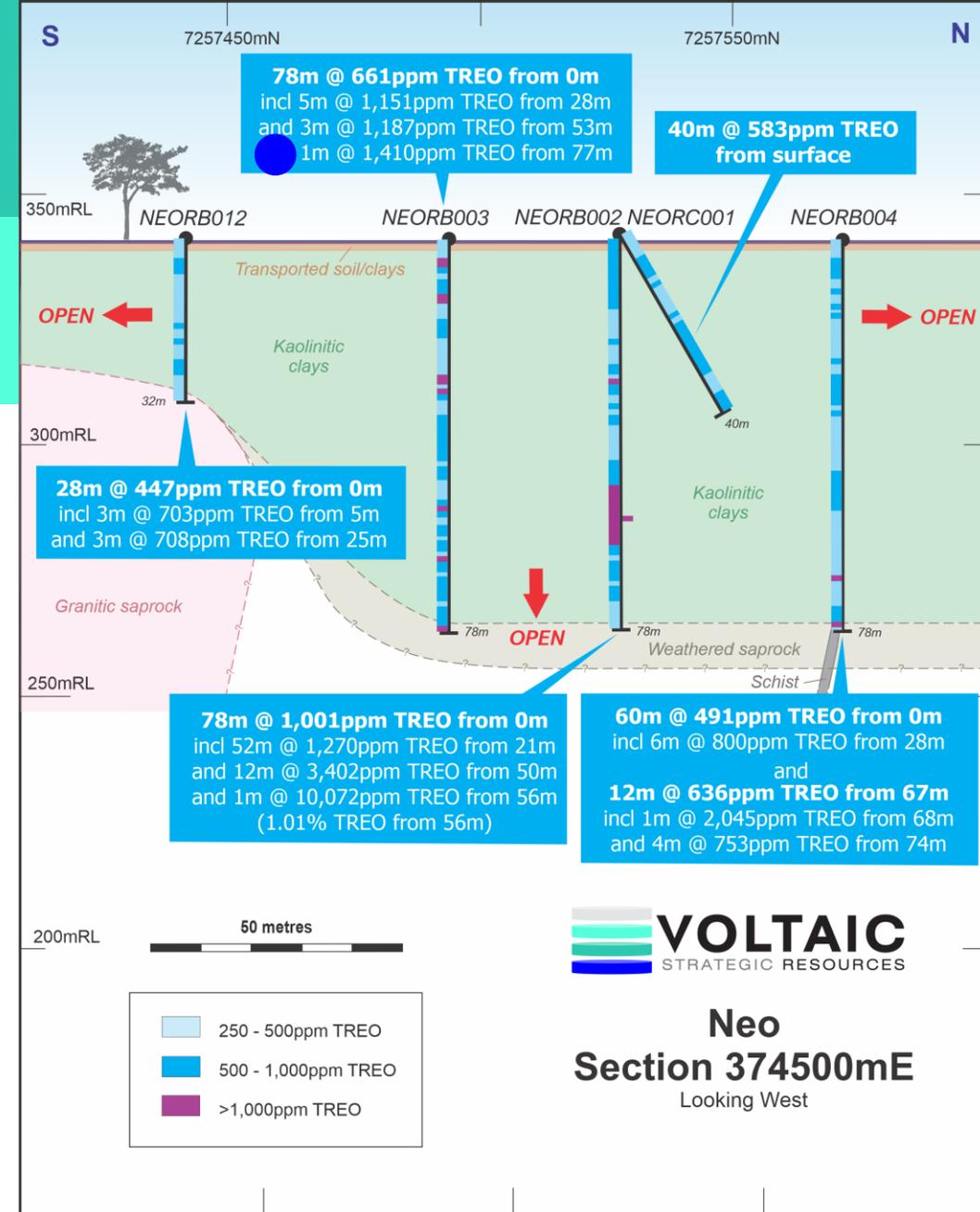


\* TREO: Total Rare Earth Element Oxide incl. including yttrium oxide (Y<sub>2</sub>O<sub>3</sub>)

# Paddy's Well REEs Project Neo Prospect

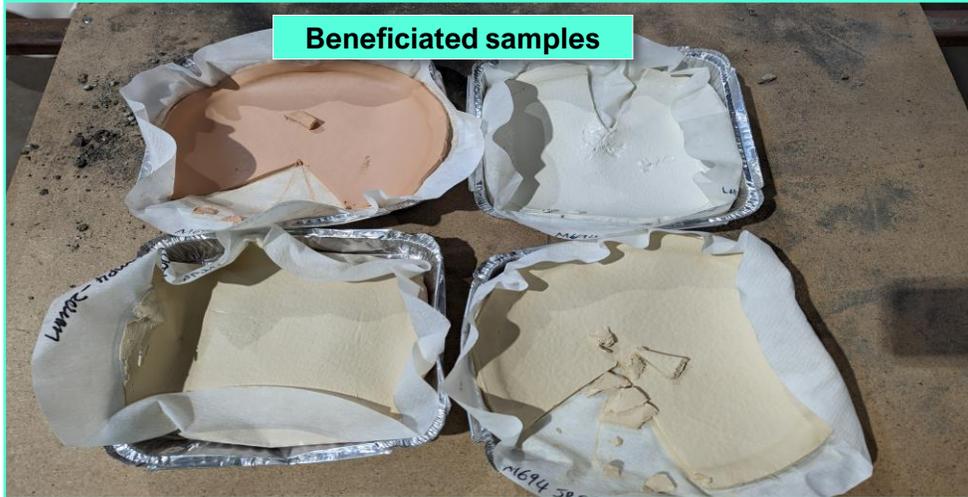
## Phase 1 drilling confirms significant clay-hosted REE system at Neo – with 78m intercept from surface (multiple holes)

- Grades up to 10,072 ppm TREO (1.0% w/w TREO).
- Significant REE intercepts up to 78m from surface, **potentially one of the widest reported in Australia.**
- Encouraging high ratio of 'magnet' REEs to TREO (peak: 30%).
- Significant assays from initial two holes (open at depth and along strike)  
**NEORB002 78m @ 1,001 ppm TREO (23% Magnet REO) from surface.**
- Neo forms part of an expanding regional 6 x 2km anomalous area with multiple >1,000 ppm TREO zones identified at surface.

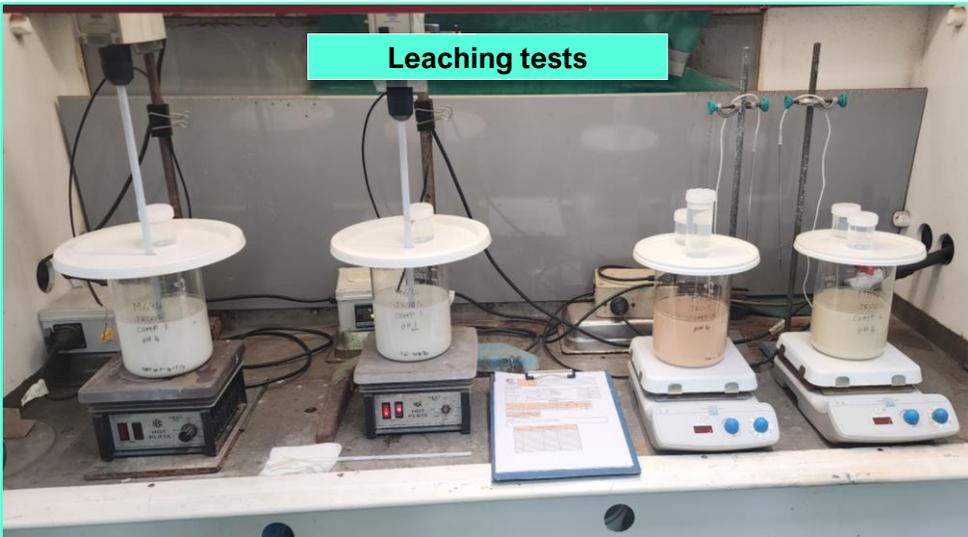


# Paddy's Well REEs Project

Sighter metallurgical testwork underway -  
Do we have an economically viable REE project at Neo?

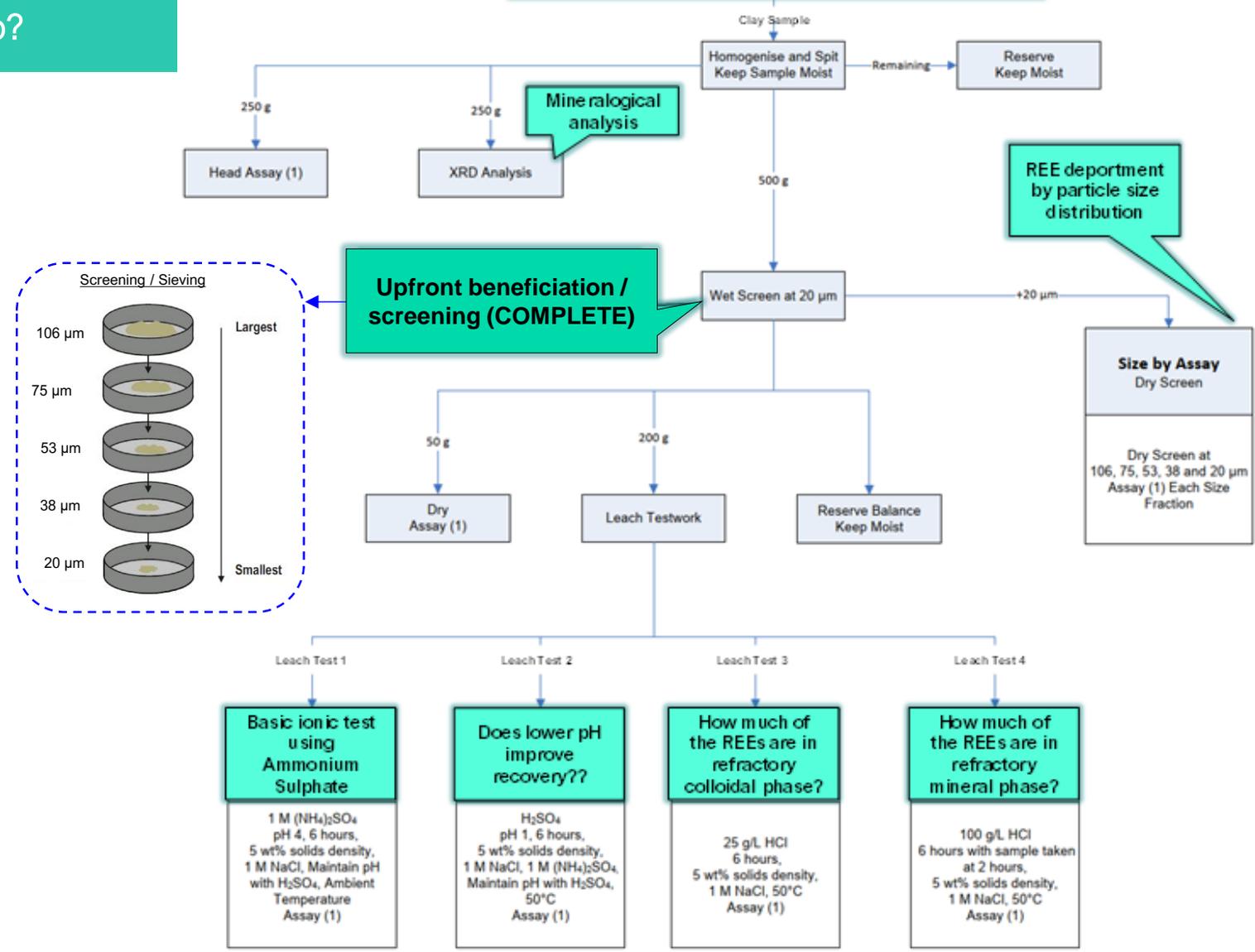


**Beneficiated samples**



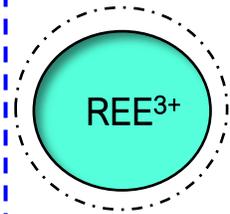
**Leaching tests**

## PADDYS WELL PROJECT Neo Prospect Rare Earth Ionic Clay Characterisation Testwork Flowchart



# What is an Ionic REE Clay?

Three (3) potential modes of REE occurrence in a clay system:

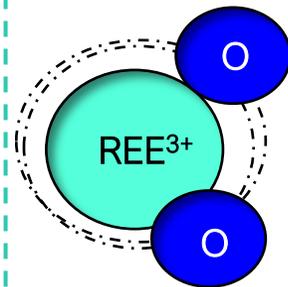


1. REE physically adsorbed on clay mineral surface

IONIC



Low acid + salt required

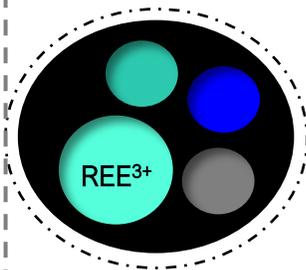


2. REE chemically adsorbed on clay surface as a "colloidal" phase (insoluble REE oxides or REE hydroxides ("hydrolyzed"))

COLLOIDAL

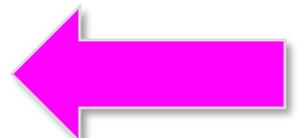


Extra acid required



3. REE encapsulated within refractory mineral phase ("matrix")

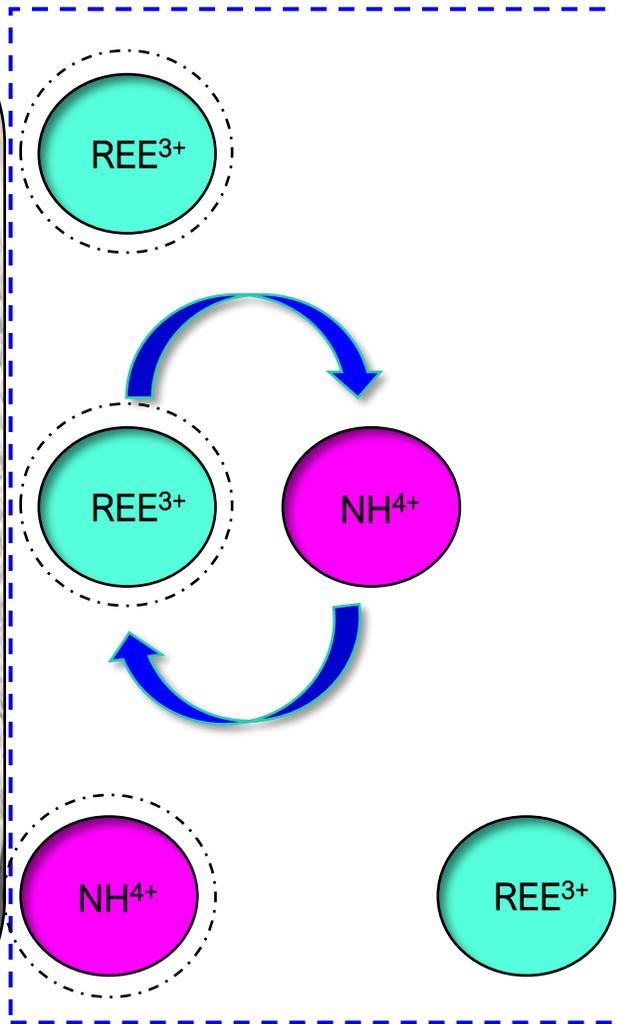
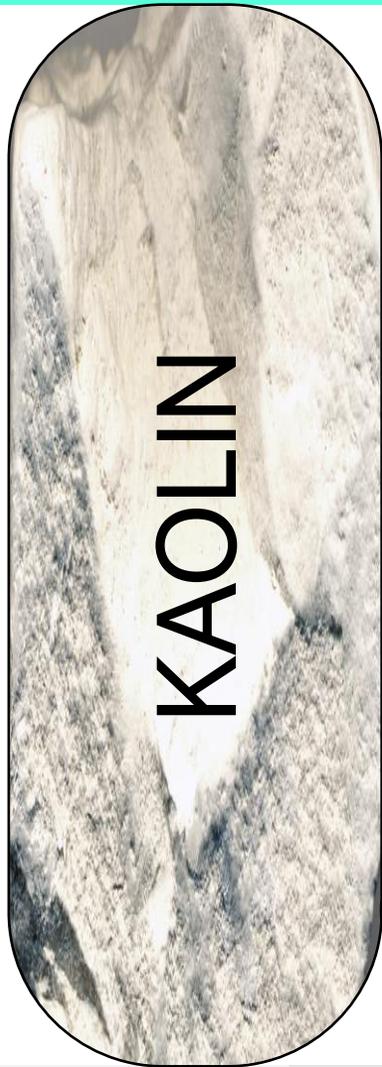
MINERAL



+++acid & high temperature required

# What is an Ionic REE Clay?

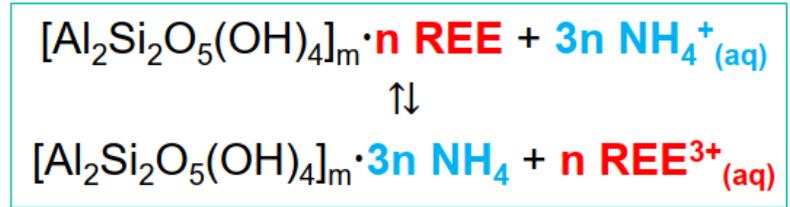
Ionically attached REEs will “desorb” using a suitable “ion exchange” medium like ammonium ( $\text{NH}_4^+$ )



IONIC

1. REE physically adsorbed on clay mineral surface

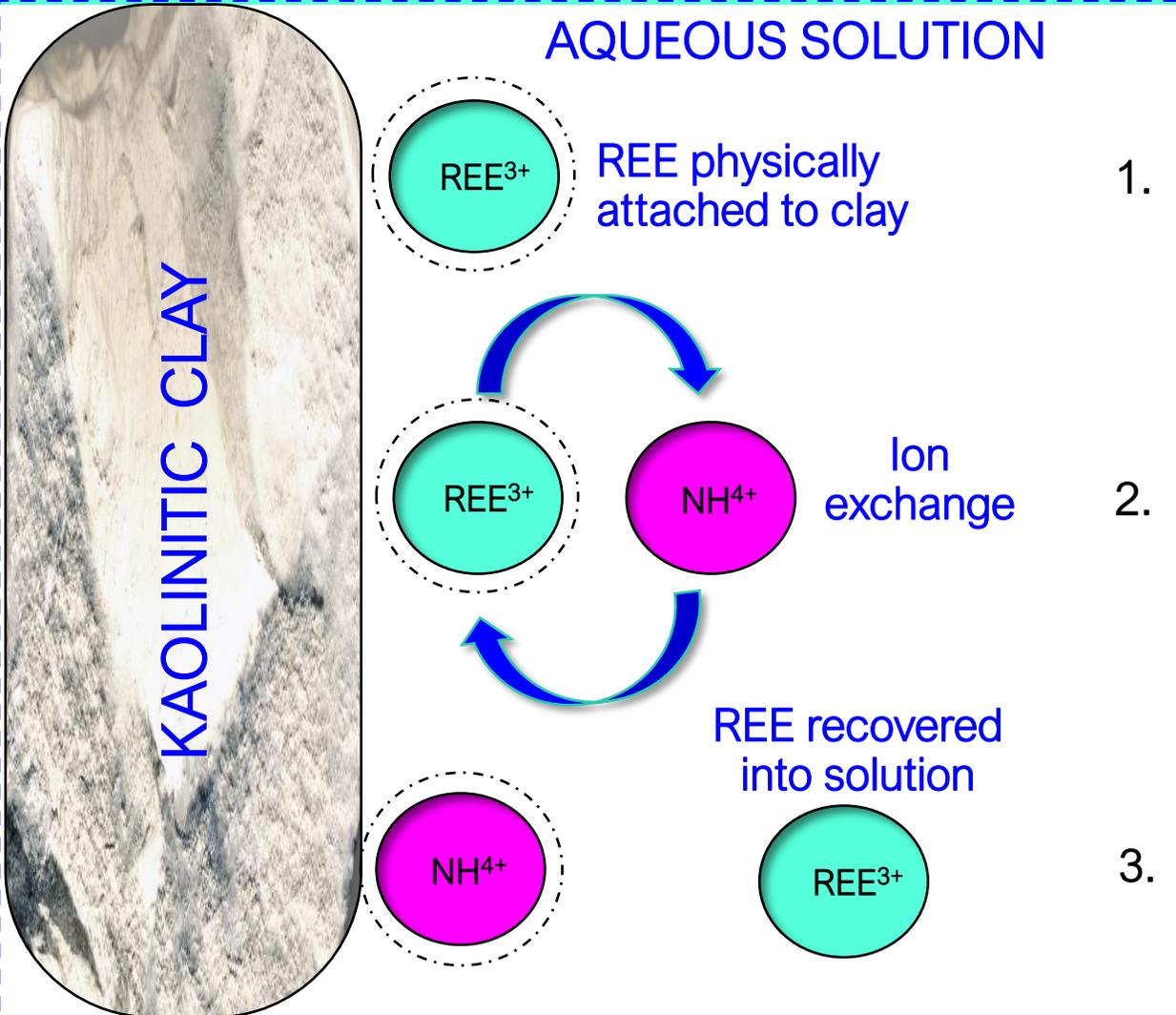
2. REE “liberated” using lixiviant like Ammonium Sulphate ( $(\text{NH}_4)_2\text{SO}_4$ ) - REE ion “exchanges” with  $\text{NH}_4^+$  ion



3. REE recovered into solution;  $\text{NH}_4^+$  attaches to clay

# What is an Ionic REE Clay?

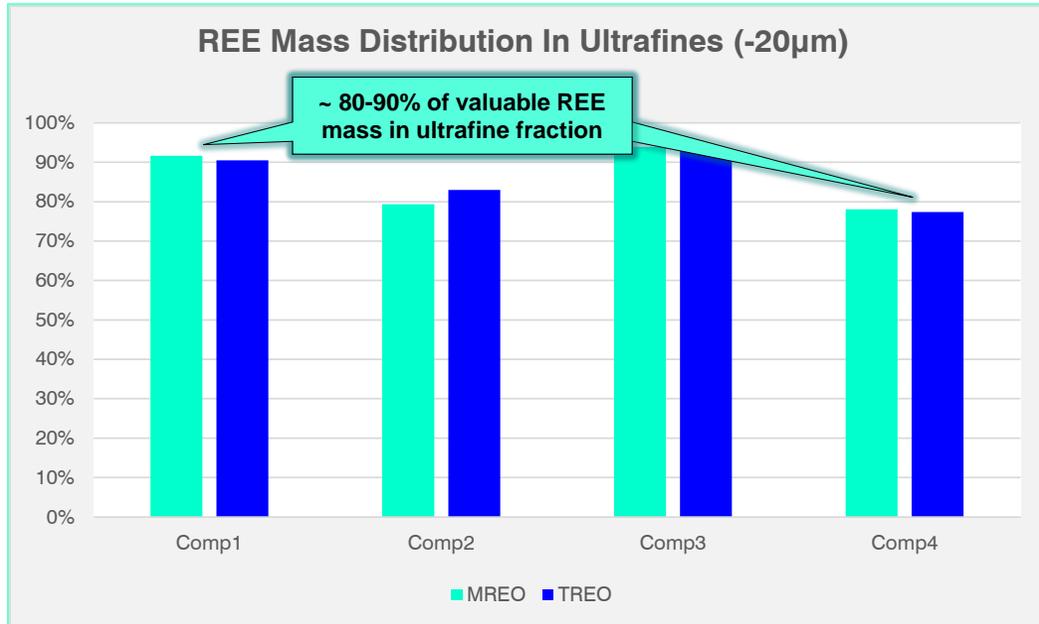
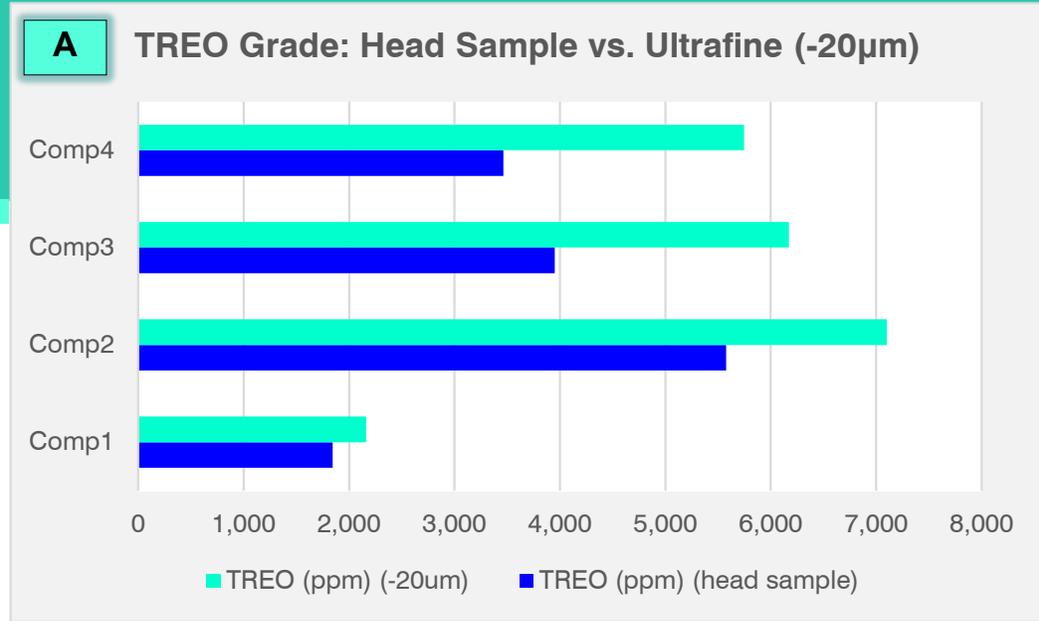
## Characteristics



CHARACTERISTIC	IMPORTANCE (1 – 3)	NEO CLAY
1. Presence of alumina-rich clays (kaolin)	3	✓
2. Presence of halloysite (tubular kaolin)	3	✓
2. Low Calcium (reduces acid consumption & precip. Issues)	2	✓
3. Low impurities like iron (Fe <sub>2</sub> O <sub>3</sub> )	2	✓
3. Leaches in ammonium sulphate at mild pH	3	?? Awaiting Results

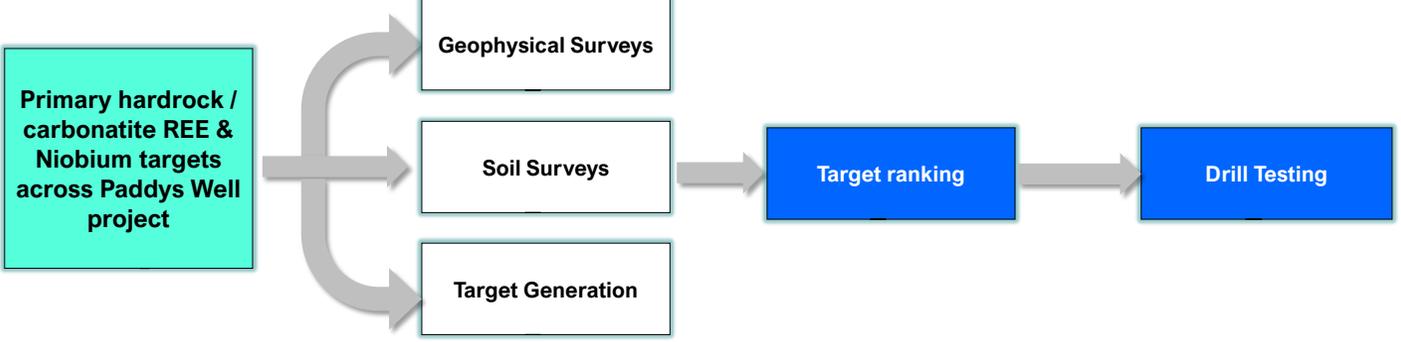
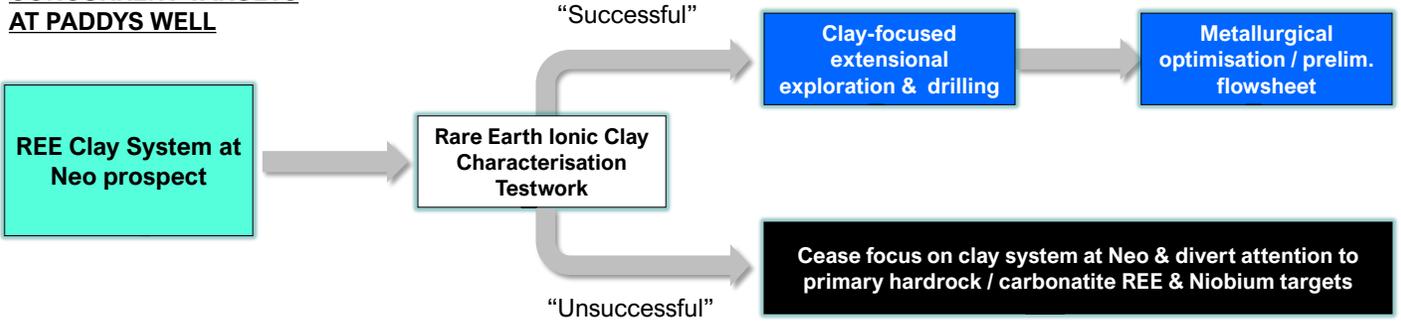
# Neo Prospect - Initial metallurgical results

- **Step 1 bene. tests show REE enriched clays highly amenable to upstream beneficiation.**
- **Removal of 'coarse' (large) particles, several significant benefits have been demonstrated:**
  - Significant boost in REE grades - up to **67% increase in valuable MREO & 66% in TREO**;
  - Substantial reduction in waste / 'gangue', implying likely reduced reagent consumption & equipment requirements for a full-scale REE process plant.
- **Encouraging indicators for REE ionic adsorption deposit (IAD) potential (alumina-rich, low iron, low calcium, and halloysite).**
- **Step 2 leach metallurgical testing now underway to characterise the REE species present**

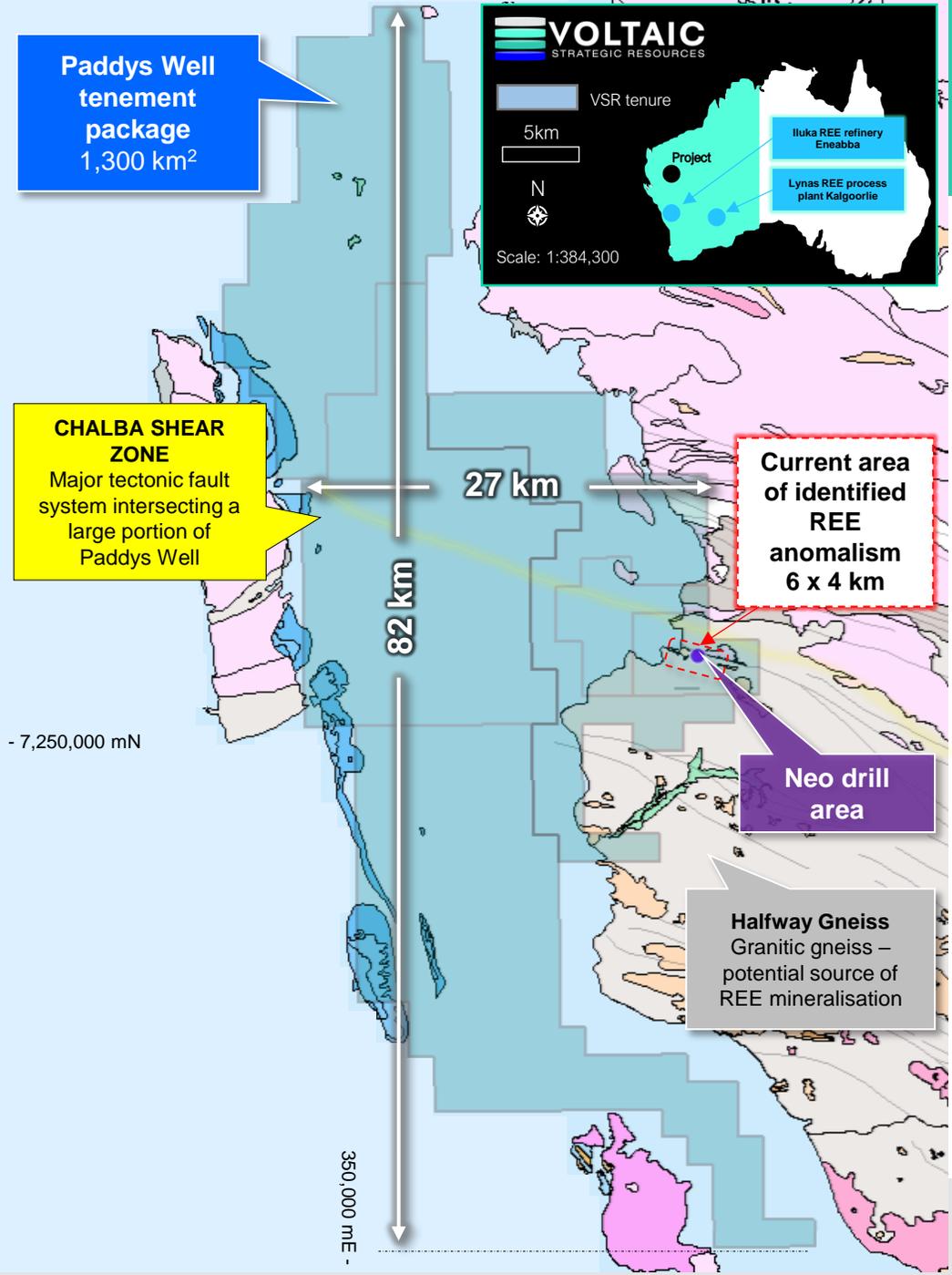


# Next Steps at Paddys Well

## CONCURRENT TARGETS AT PADDYS WELL



Timeline	Now	Q3 2023	Q3 / Q4 2023
Geophysical Surveys	Now		
Soil Surveys	Now		
Target Generation	Now		
Target ranking		Q3 2023	
Drill Testing			Q3 / Q4 2023

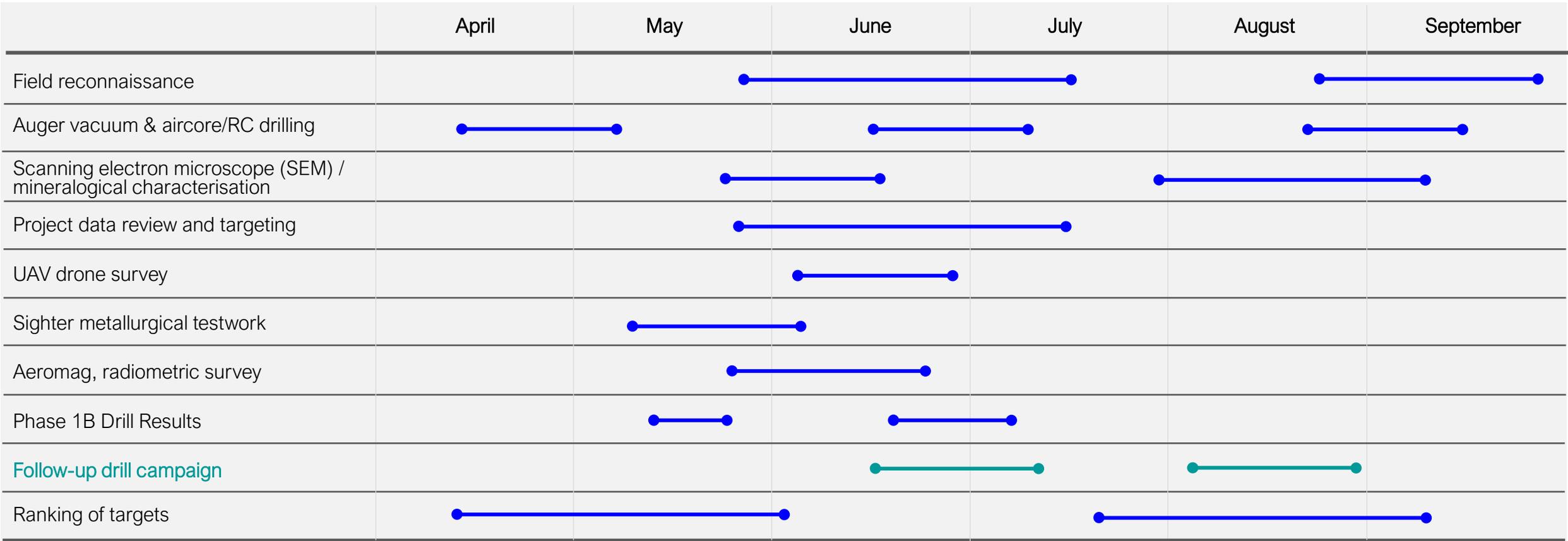


# Paddy's Well REEs Project

Timeline

Ambition: Clay-hosted or primary hard rock REE discovery

## Highly active news flow



# Section – 03

Profile  
Projects  
**Outlook**



# Exploring Australia's newest critical minerals region

## Why you should invest in Voltaic Strategic Resources.



### Projects



- Significant landholding in one of the world's most active Critical Minerals exploration hotspots
- Two primary Critical Minerals (Li & REEs) projects with advanced targets, an aggressive exploration strategy & several major news-flow events forthcoming for 2023
- Supporting commodity, geological and geographical optionality across four additional projects

### Market



- Battery and critical minerals face serious supply constraints as the world's electrification gathers pace.
- Critical minerals supply is a key strategic objective for most countries

### Quality team



- Our experienced leadership team has the vision and focus to execute on our strategy to find, develop and monetise new battery and critical minerals supply.
- Highly experienced technical team with strong skillset in geology, processing / metallurgy

# Connect with us

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# Appendices

Additional Projects &  
Tenement Information



# Talga Project

<sup>28</sup>Ni

<sup>29</sup>Cu

<sup>27</sup>Co

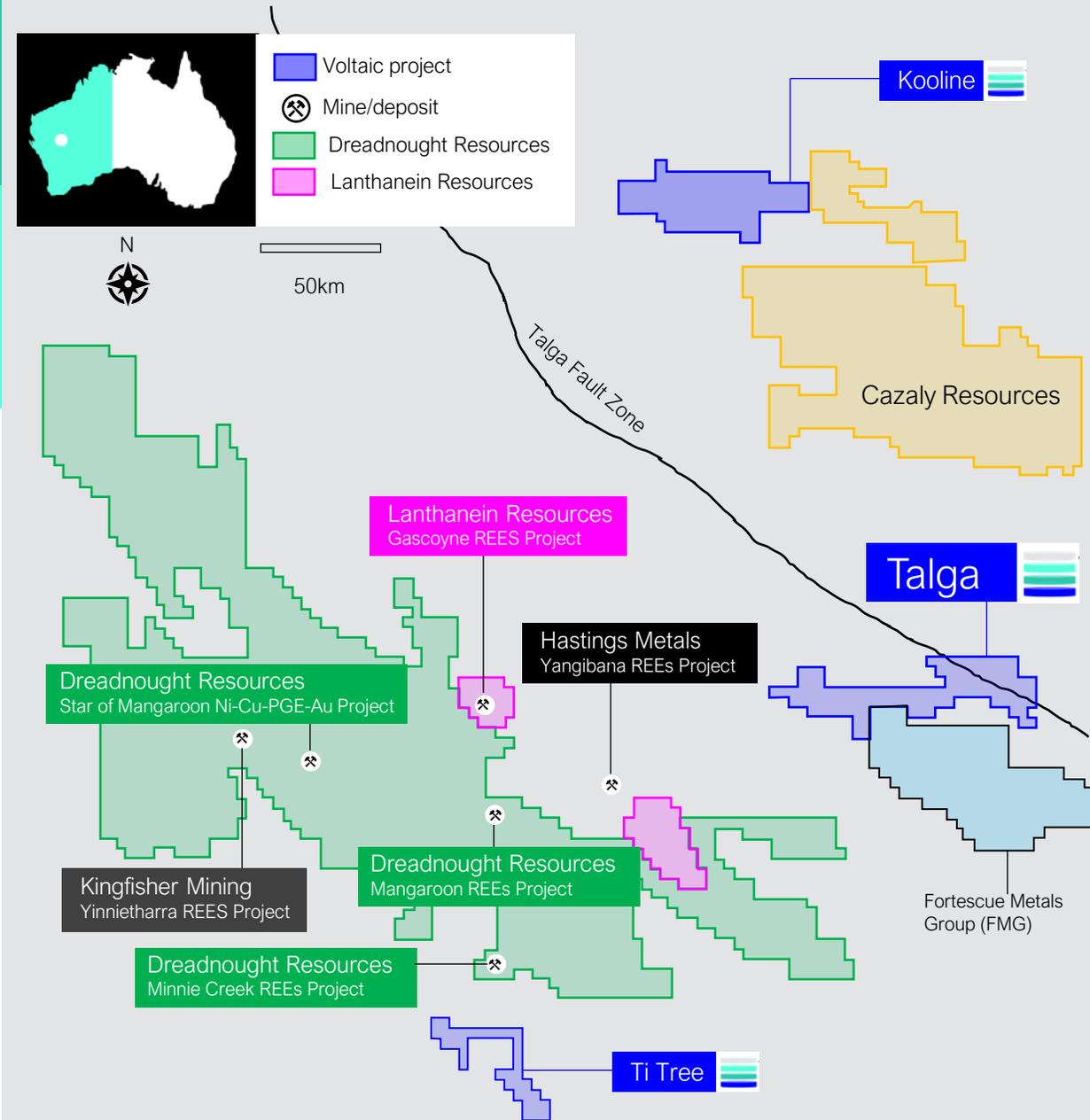
<sup>46/78</sup>PGE

<sup>25</sup>Mn

## Opportunities for magmatic Ni-Cu-PGE mineralisation & Co-bearing Mn

### Encouraging historical results

- Covers the north-western extent of the Edmund Basin (Ashburton Basin).
- Contains the 'Talga Fault Zone' (TFZ), major NW-SE trending litho-structural contact that has shown historical potential for both magmatic Ni-Cu-Co-PGE and cobalt-bearing manganese mineralisation.
- Prior VTEM survey identified numerous targets – never drill tested
- Same geophysical signature as Dreadnought's "Money Intrusion" nickel prospect at the Mangaroon Project.



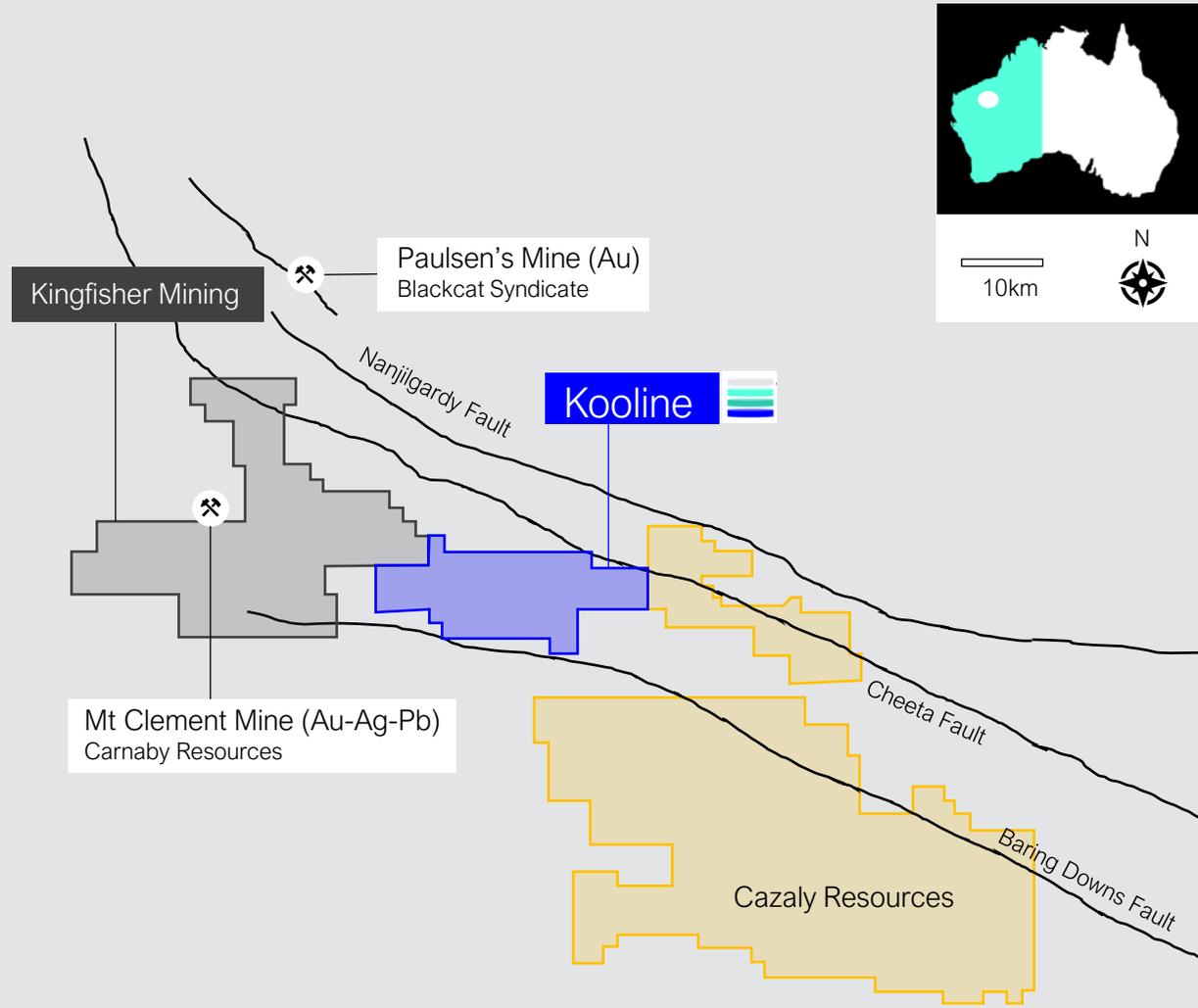
# Kooline Project



## Potential orogenic Cu-Au and Cu-Ag-Pb-Zn deposits 40km from Paulsen's Gold Mine (900Koz produced since 2005).

A geographical area rich in potential.

- Previously identified as a high priority target area by North Star Resources.
- Lies within the W-NW trending regional Wyloo anticlinal dome, which is prospective for mesothermal, orogenic Au deposits, such as Paulsen deposit, which has mineralisation within structurally controlled quartz veins.
- Historical surface sampling & subsequent shallow drilling by NSR identified gold anomalism, which was not followed up.
- Neighbours Kingfisher Mining and Cazaly Resources have had recent exploration success (Boolaloo and Ashburton Projects, respectively).



# Meekatharra projects



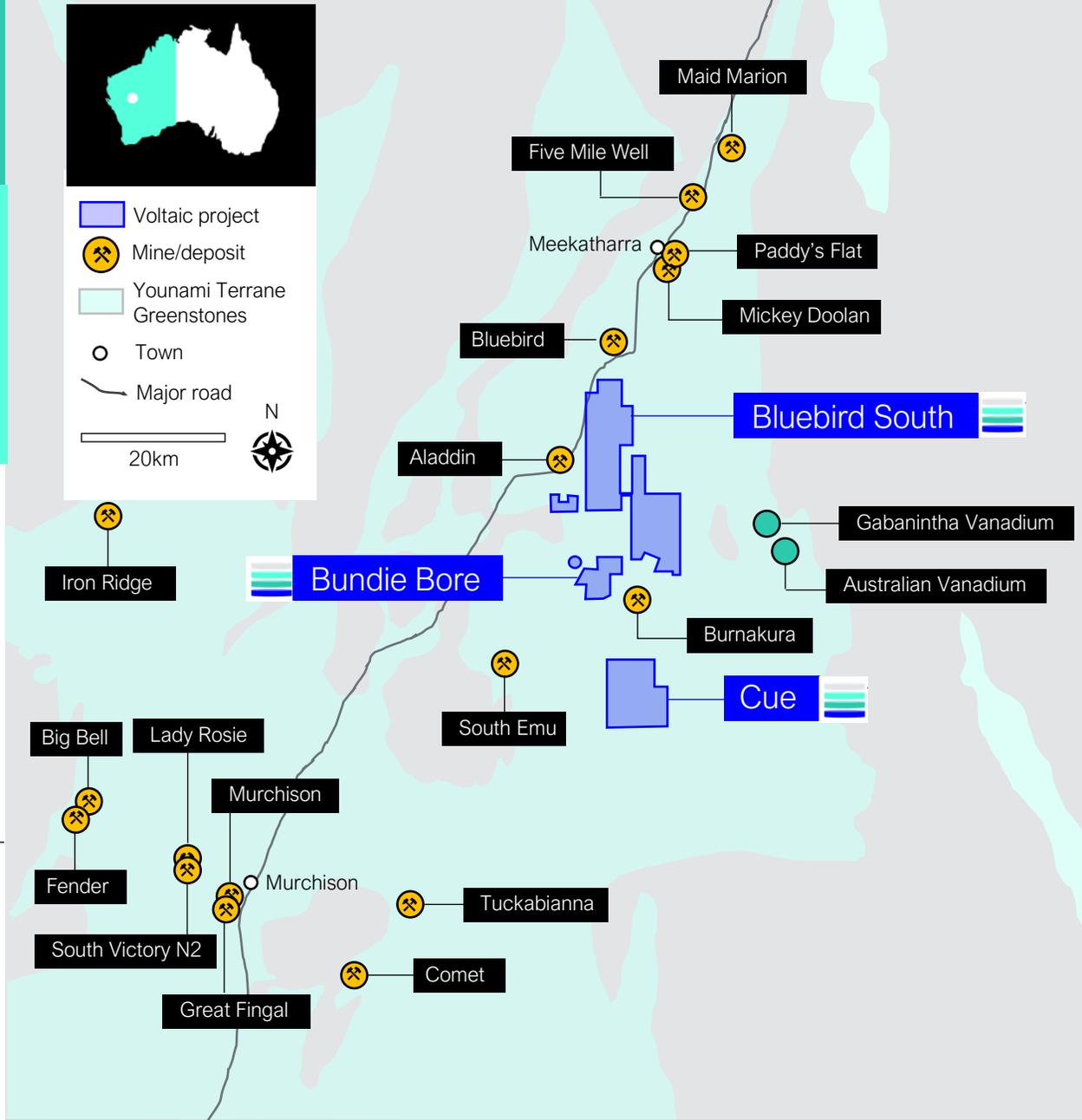
Three projects within a prolific gold and critical minerals precinct in Western Australia which has produced >35Moz of Au.

### Established gold district

- Westgold’s Bluebird Project (1.8Mtpa production) and Tuckabianna Project within trucking distance.
- Paddy’s Flat, Bluebird, South Emu, Triton, Big Bell, and Comet mines have produced >270Koz Au per year.
- 150km from Mt Magnet (60Mt @ 1.69g/t) and Murchison gold mines (89Mt @ 2.18g/t).

### Emerging vanadium-titanium district

- Australian Vanadium Project (Resource 239Mt @ 0.73% V<sub>2</sub>O<sub>5</sub>).
- Technology Metals’ Gabanintha Project (Resource 110Mt @ 0.84% V<sub>2</sub>O<sub>5</sub>).



# Nevada Project

Stillwater Range, NV, USA



Located in past-producing polymetallic region on the doorstep of Tesla’s gigafactory in Nevada.

### Project background

- 860 acres of mineral claims in Stillwater Hills mining district covering the historic Gilbert Ni-Co Mine.
- Claims were selected on their proximity to the historical Lovelock Co Mine and three separate ground assessment programs.
- A 2019 testing program identified high values of nickel, a major component of batteries.
- Next exploration phase will involve systematic fieldwork and rock sampling.

### Good neighbourhood

- Neighbour Global Energy Metals recently intersected Ni-Cu-Co mineralisation at Lovelock.
- Superior mining jurisdiction located 180km from Tesla.



# Appendix Project & tenement list

Project Group	Project Name	Tenement Number	Tenement Name	Status	Primary Prospectivity	Blocks	Area (km <sup>2</sup> )	Equity	
Gascoyne Critical Metals	PADDYS WELL	E 09/2663	West Well	Application	REE	15	47	100%	
		E 09/2669	West Well	Application		66	205	100%	
		E 09/2414	Paddy's Well	Live		13	40	100%	
		E 09/2774	Gadolin $\alpha$	Application		89	277	100%	
		E 09/2744	Gadolin $\beta$	Application		110	342	100%	
		E 09/2773	Gadolin $\gamma$	Application		125	388	100%	
	TALGA	E 08/3303	Talga East	Application	Ni-Cu-Co-PGE Co-Mn	46	343	100%	
		E 08/3420	Talga West	Live		59	185	100%	
	TI TREE	E 09/2503	Ti Tree South	Live	Lithium	19	59	100%	
		E 09/2470	Ti Tree South	Application		14	44	100%	
		E 09/2522	Ti Tree North	Application		35	109	100%	
	KOOLINE	E 08/3314	Kooline	Live	Cu-Au Cu-Ag-Pb-Zn Au	96	303	100%	
Meekatharra Gold & Base Metals	BUNDIE BORE	E 51/1909	Bundie Bore	Live	Au Base Metals	35	102	80%	
		E 51/1946	Bundie Bore	Live		9	19	80%	
		P 51/3145	Bundie Bore	Live		-	2	80%	
		P 51/3146	Bundie Bore	Live		-	2	80%	
		P 51/3147	Bundie Bore	Live		-	2	80%	
	BLUEBIRD SOUTH	E 51/2022	Bluebird South	Application	Au Base Metals	23	70	100%	
	CUE	E 51/2057	Cue	Live	Au Base Metals	23	70	100%	
	OTHER	JERRAMUNGUP	E 70/6478	TBC	Application	REE	66	188	100%
			E 70/6477	TBC	Application		70	199	100%
	NEVADA	NEVADA CRITICAL METALS	NA	N/A	Live	Ni-Cu-Co-PGE Base Metals	NA	4	100%