



ASX:MEK

**Noosa Mining Conference
Presentation**

11 November 2022



IMPORTANT INFORMATION



Disclaimer

This information contained in this presentation is issued by Meeka Metals Limited ("Meeka" or "the Company"). The information contained herein is confidential and proprietary to the Company and is provided to recipients on the terms and conditions set out in this disclaimer. The document, in whole or in part, is not to be distributed, copied or reproduced, in any form, without the prior written consent of the Directors of the Company.

The document does not purport to cover all relevant information about the Company or its business. It does not intend to be a complete or accurate statement of material information.

Although the Company has used care and diligence in its preparation, the presentation is provided on the basis that no representation or warranty, expressed or implied, is made by the Company or any of its associates or advisers as to the accuracy or completeness of the information.

None of the information contained in this presentation or any other written or oral communication transmitted or made available to the recipient or any of its associates or advisers is, or shall be relied upon as, a promise or representation, whether as to the past or future, and no liability will attach to such information to the Company, its associates or advisers.

The Company and its directors, employees, agents and consultants shall have no liability including to any person by reason of negligence or negligent misstatement for statements, opinions, information or matters (express or implied) arising out of contained in or derived from or for any omissions from this presentation, except where liability under statute cannot be excluded.

Whilst the directors are confident in the ability of the Company to achieve its objectives, the proposed activities and the industry in which it operates are regarded as high-risk and therefore should be regarded as speculative. Potential shareholders should be aware of the risks involved with an investment of this nature. The value of the investment may rise or fall depending on a range of factors beyond the control of the Company, such as changes to interest rates, inflation, government policy, regulatory regimes and foreign exchange rates.

Certain statements in this report relate to the future, including forward looking statements relating to the Company's financial position, strategy and expected operating results. These forward-looking statements involve known and unknown risks, uncertainties, assumptions and other important factors that could cause the actual results, performance or achievements of the Company to be materially different from future results, performance or achievements expressed or implied by such statements. Actual events or results may differ materially from the events or results expressed or implied in any forward-looking statement and deviations are both normal and to be expected. Other than required by law, neither the Company, their officers nor any other person gives any representation, assurance or guarantee that the occurrence of the events expressed or implied in any forward-looking statements will actually occur. You are cautioned not to place undue reliance on those statements.

Competent Person's Statement

The information that relates to Mineral Resources was first reported by the Company in its announcement to the ASX on 18th May 2021. The Company is not aware of any new information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

The information that relates to Exploration Results as those terms are defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserve", is based on information reviewed by Mr Duncan Franey, a Competent Person who is a member of The Australasian Institute of Mining and Metallurgy. Mr Franey is a full-time employee of the Company. Mr Franey has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Franey consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information that relates to Mineral Resources for the Andy Well and Turnberry deposits is based upon information reviewed by Mr Andrew Hawker, a Competent Person who is a member of The Australasian Institute of Mining and Metallurgy. Mr Hawker is an independent consultant to Meeka Metals Limited. Mr Hawker has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Hawker consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

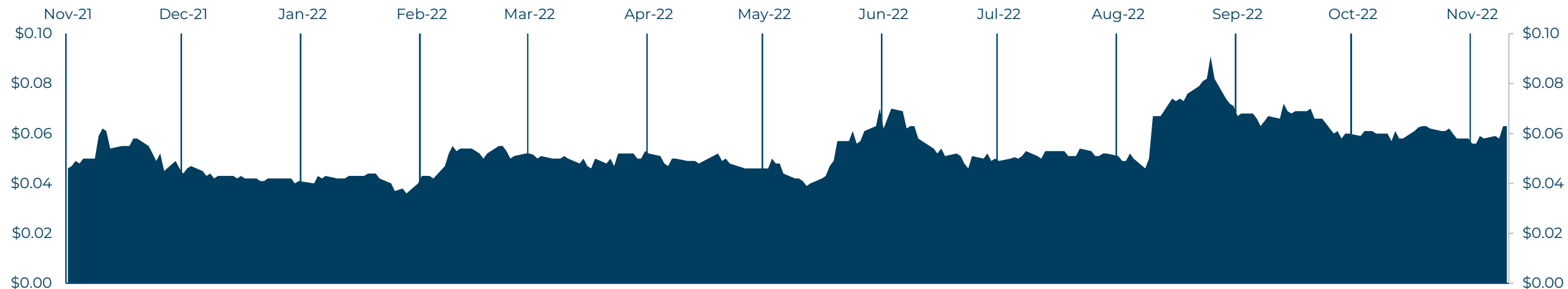
The information that relates to Scoping Study results is based on information compiled by Mr Tim Davidson, a Competent Person who is a Member of the Australian Institute of Mining and Metallurgy. Mr Davidson is a full time employee of the company. Mr Davidson is eligible to participate in short and long term incentive plans of and holds shares and performance rights in the Company as previously disclosed. Mr Davidson has sufficient experience in the study, development and operation of gold projects and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

A Proven Board and Management Team

Board & Management with 'skin in the game' having invested \$2.8m to date.

Capital Structure		
Share Price (close price 10 Nov 2022)	A\$/share	0.063
Shares on Issue	M	1,068
Options on Issue	M	36
Market Capitalisation	A\$M	67.3
Cash (30 Sept 2022)	A\$M	8.3
Debt (30 Sept 2022)	A\$M	-
Net Cash	A\$M	8.3
Enterprise Value	A\$M	59.0

Board	
Paul Chapman	Non-Executive Chairman
Tim Davidson	Managing Director & CEO
Roger Steinepreis	Non-Executive Director
Paul Adams	Non-Executive Director
Morgan Barron	Non-Executive Director
Management	
Chris Davidson	Chief Development Officer
Duncan Franey	Exploration Manager



Value Underwritten by Gold

Vast potential upside opportunity in rare earth metals.



1.1Moz gold Mineral Resource & growing.

✓ Strategically located in the Murchison.



Potential large gold discoveries.

✓ Murchison and Circle Valley.



High-grade rare earths opportunity being unveiled at Cascade and Circle Valley.

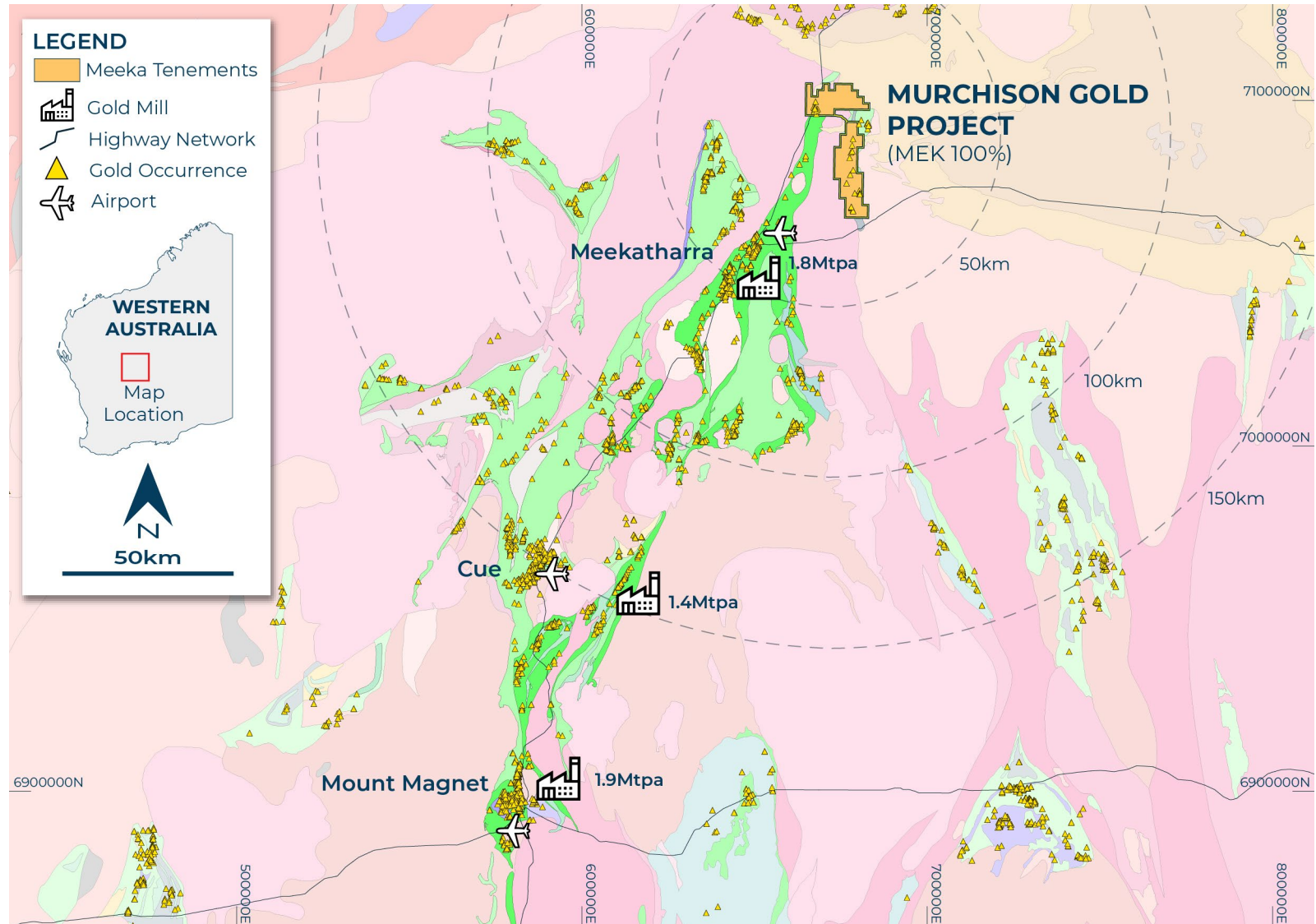
✓ Tier 1 location, Province scale opportunity, 100% ownership.



Strategic 1.1Moz Mineral Resource in the Murchison

100% ownership with a tier 1 infrastructure rich address.

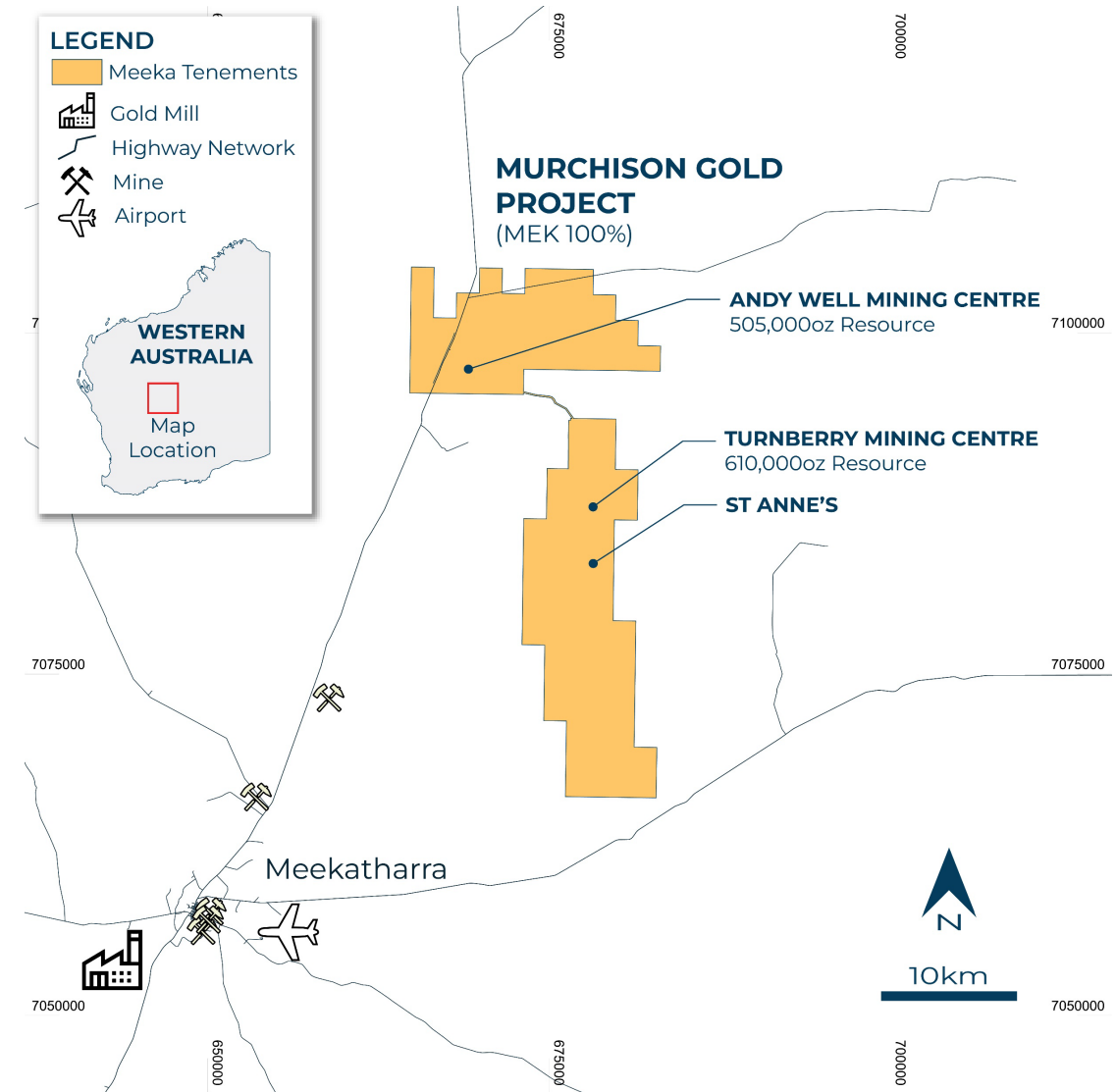
- **100% ownership.**
- **High confidence gold Mineral Resource** – 65% in Measured and Indicated classification.
- PFS underway – due June quarter 2023.
- **The key focus is now on growing the Mineral Resource, expanding production and extending mine life.**



Drilling for Resource Growth Delivering Immediate Results

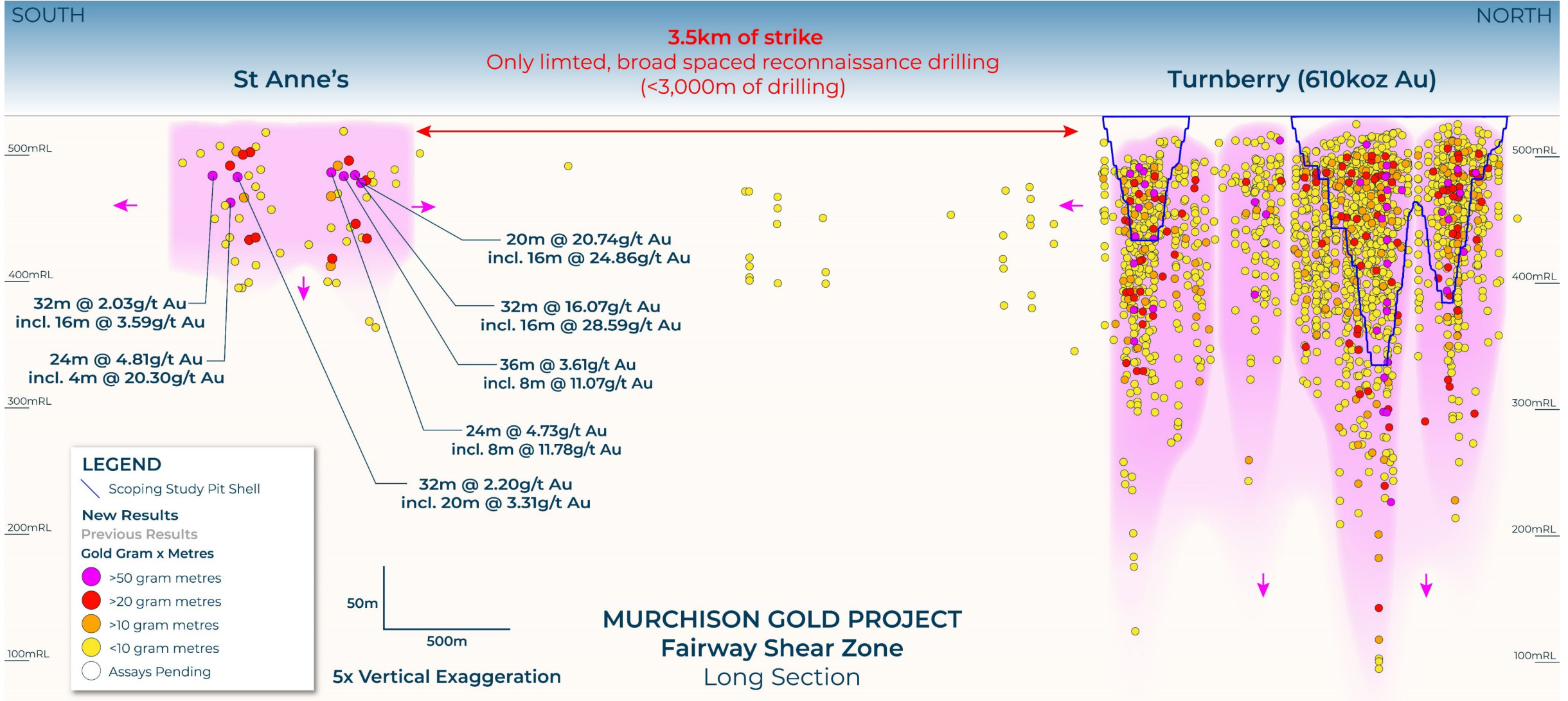
2022 drilling at St Anne's highlight Mineral Resource growth opportunity.

- **\$30m geological dataset in place to guide ongoing resource development** – 800,000m drill hole database, aeromagnetic, IP, sub-audio magnetics and gravity data.
- **The Archean greenstone belt which hosts the Turnberry deposit is a key drill target for Mineral Resource growth.**
- This greenstone belt has only been 'lightly' drilled with shallow, broad spaced reconnaissance drilling.
- **Multiple targets for strike and depth extension** outside of the Mineral Resource.
- **~30,000m drilled at St Anne's discovery since June 2022 intersecting broad, shallow, high-grade gold.**
- **2 drill rigs continue to operate at St Anne's targeting strike and depth extensions.**



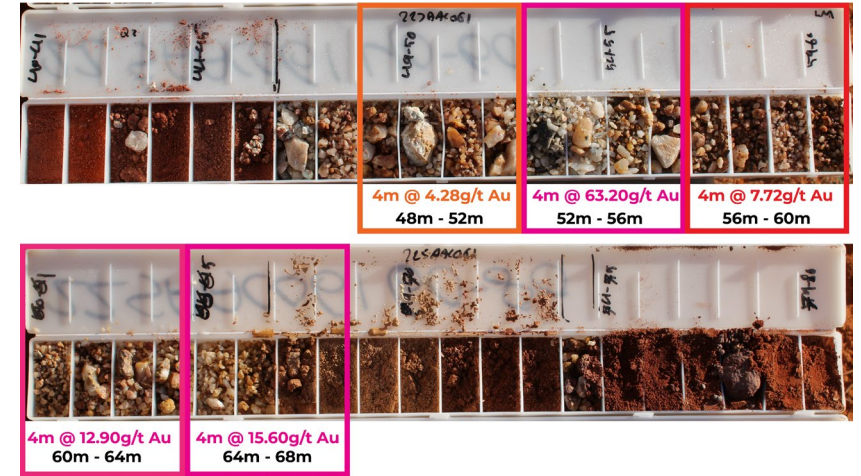
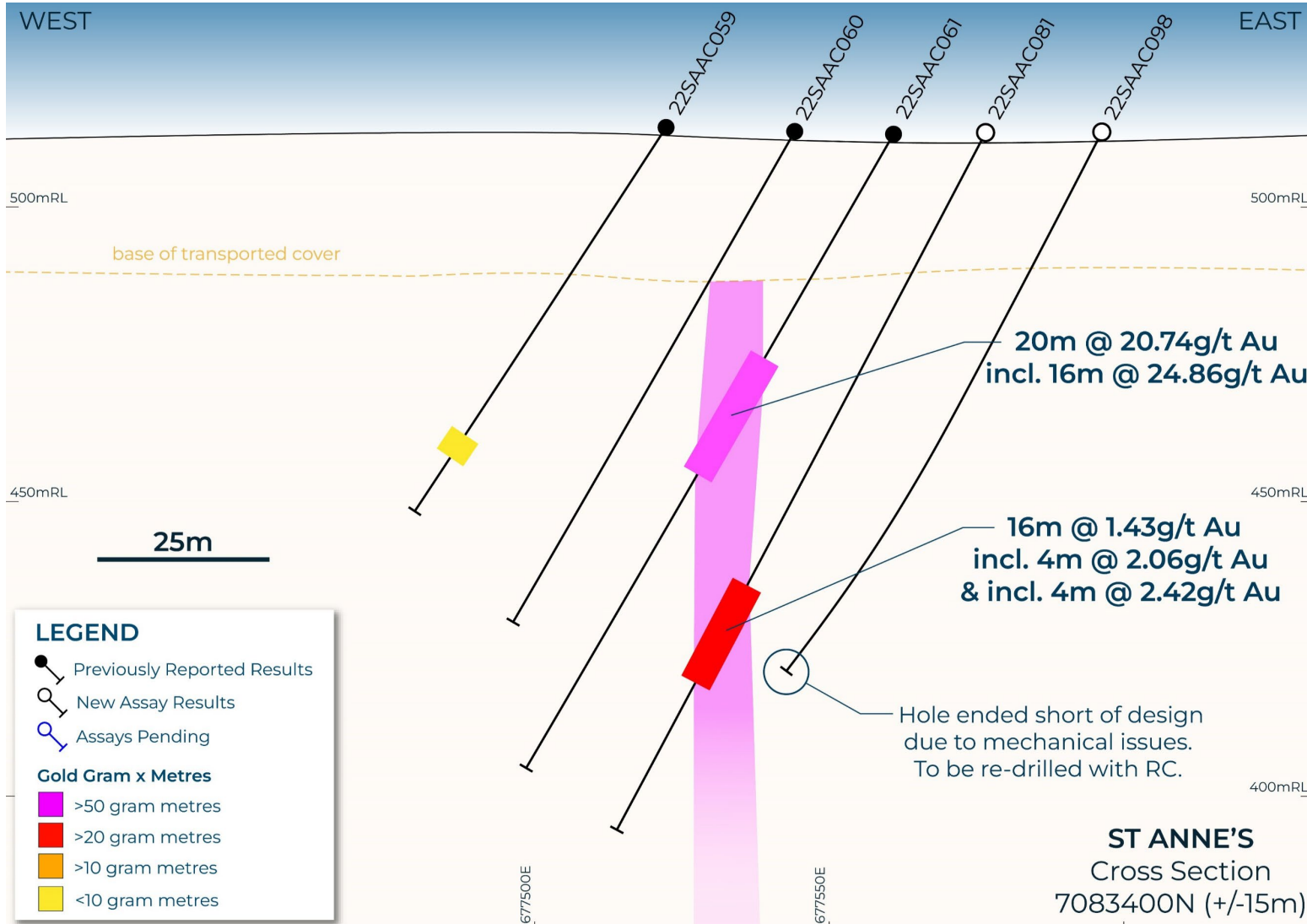
7km Gold Rich Shear System – Highly Fertile, Lightly Tested

Thick, shallow, high-grade gold at St Anne's reinforces growth opportunity.



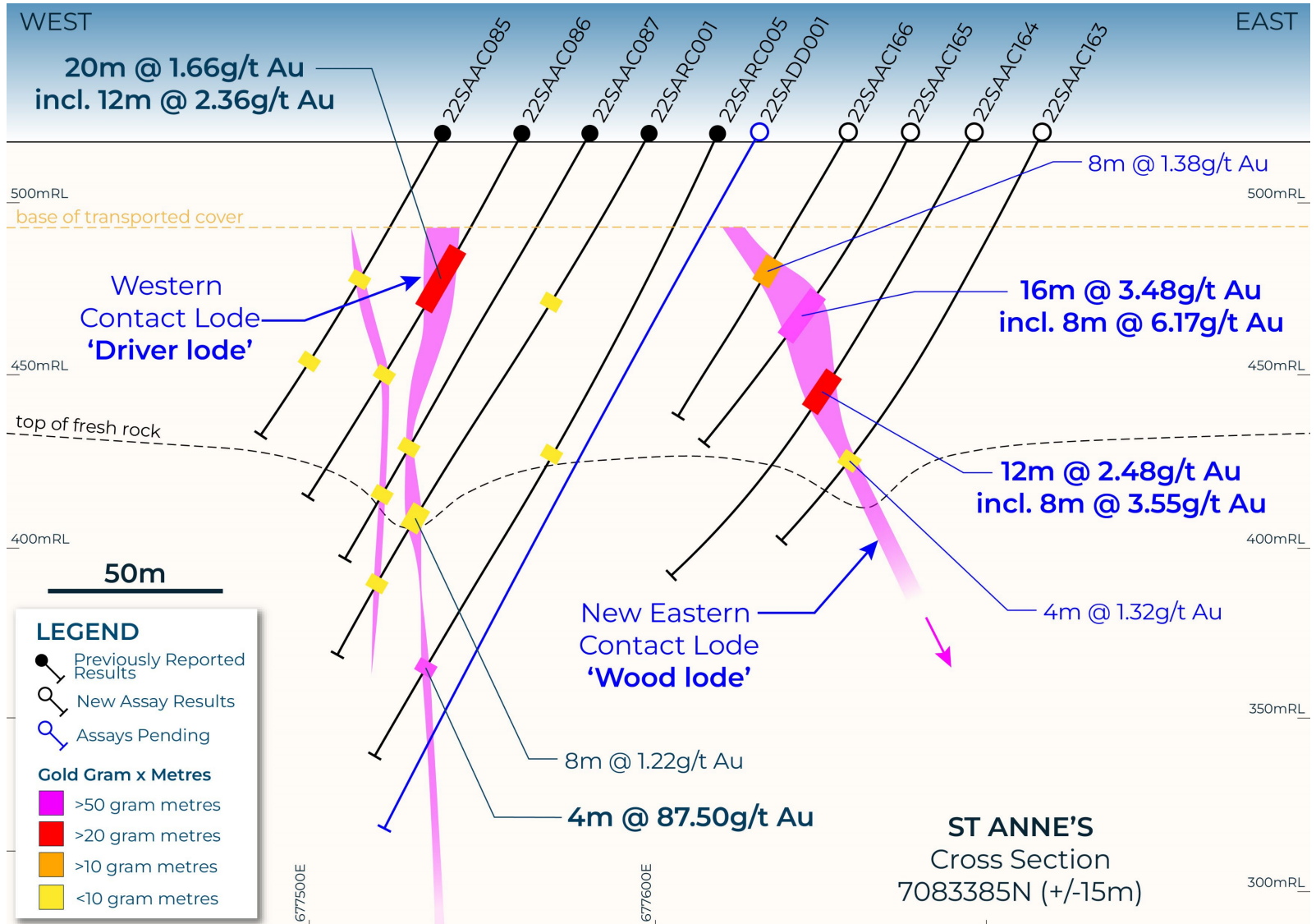
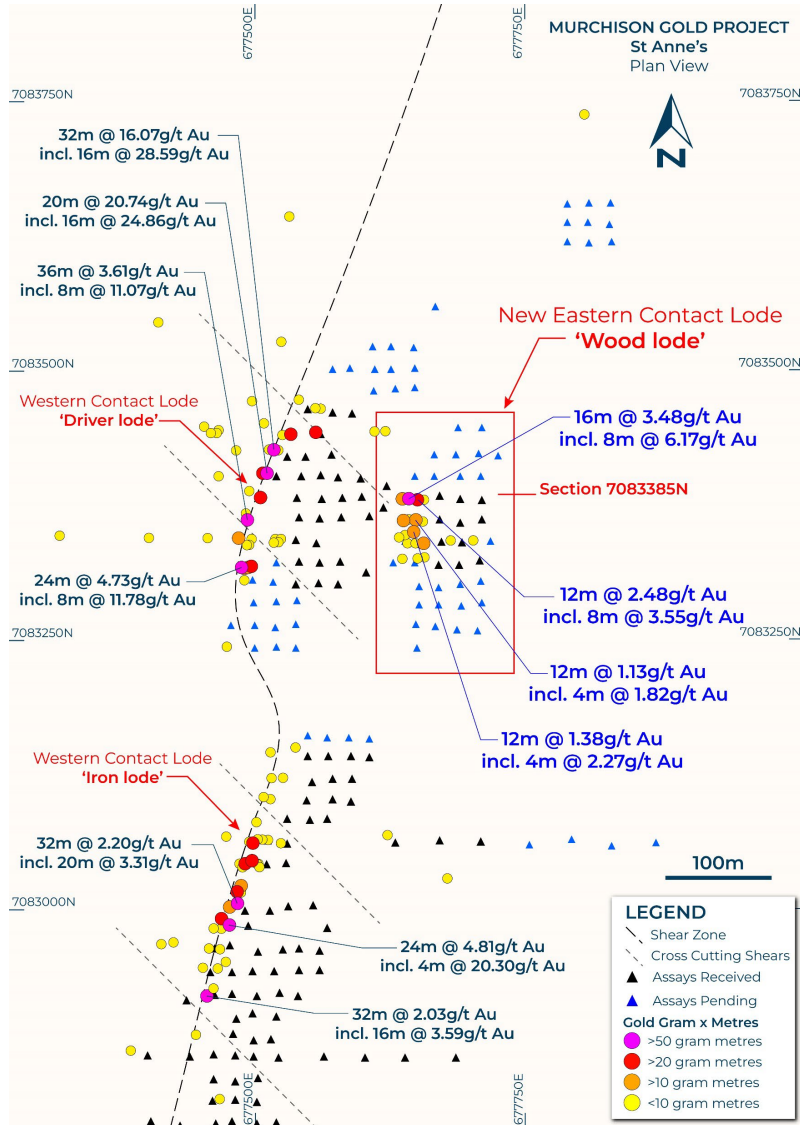
Shallow Drilling at St Anne's Delivering Exceptional Results

Driver lode – discovered in July 2022 with multiple holes returning visible gold.



New Shallow Gold Zones Continue to be Identified

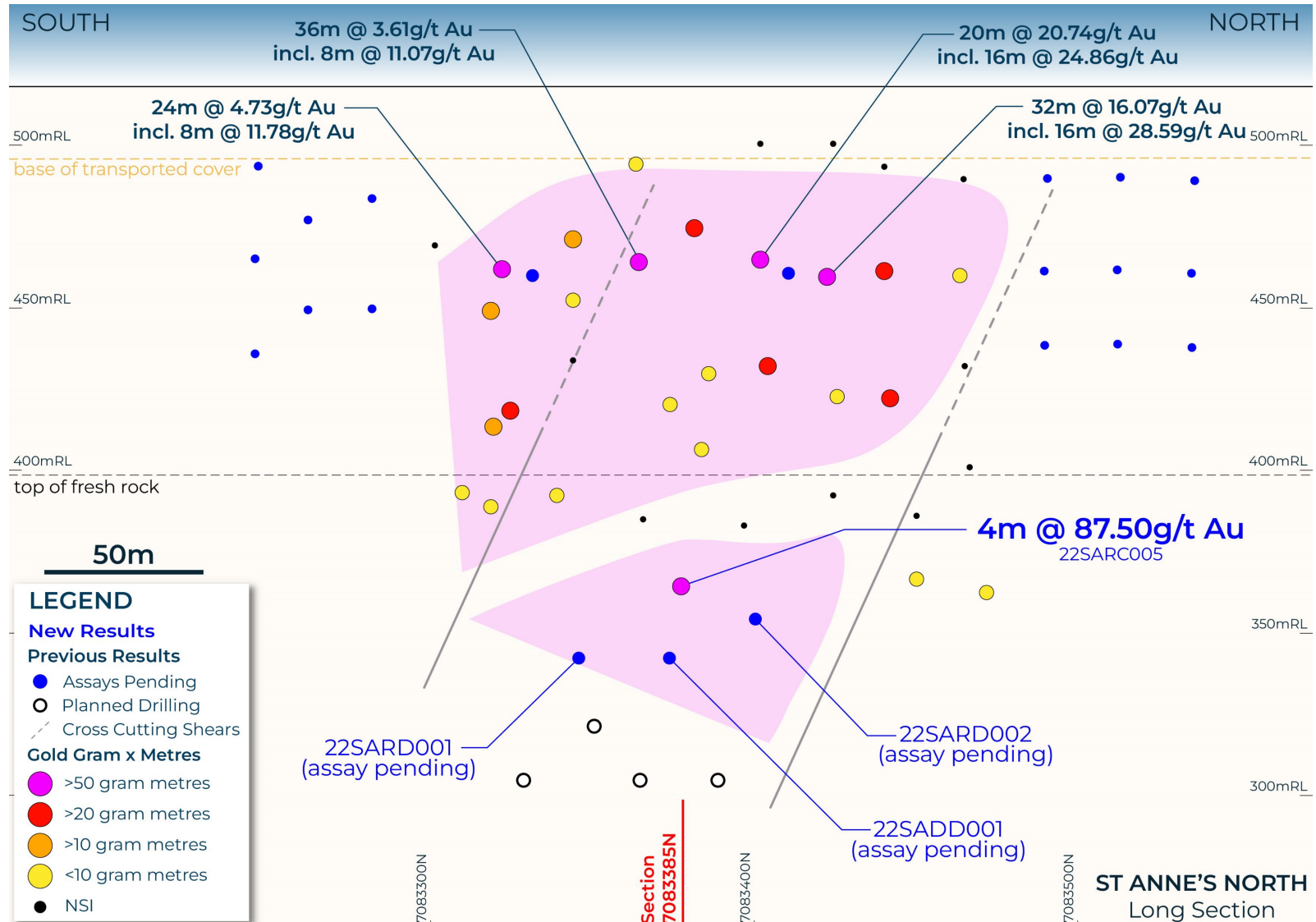
Wood lode – new discovery at St Anne’s in November 2022, parallel to Driver lode.



Drilling for Primary Mineralisation Having Immediate Effect

Driver lode – demonstrating the depth potential of this high-grade, shear hosted gold system.

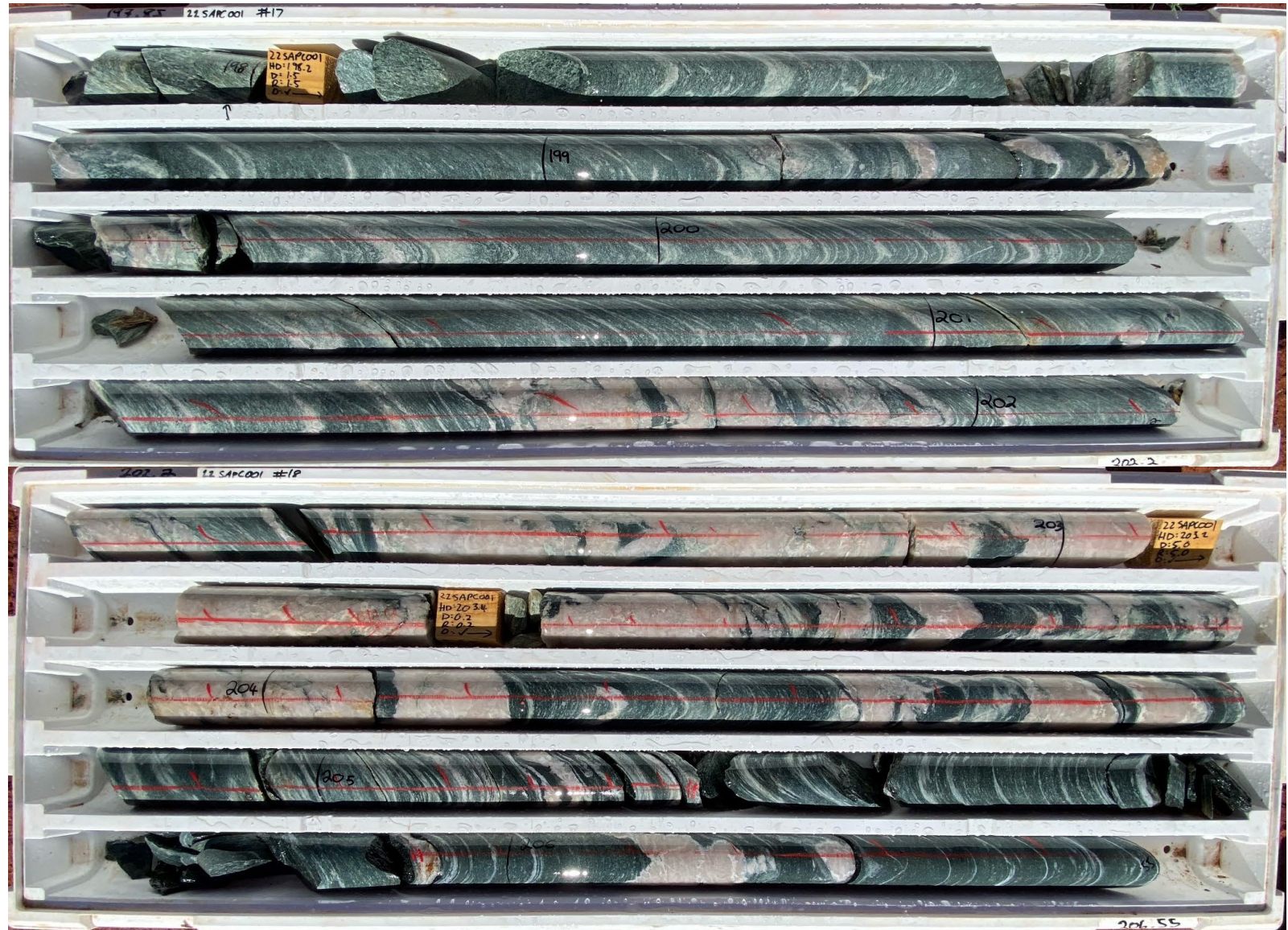
- RC drilling targeting the Driver lode has intersected strong gold mineralisation and visible gold within the targeted shear zone, assays include:
 - **4m @ 87.50g/t Au** from 172m (22SARC005)
- Importantly, 22SARC005 intersected the high-grade Driver lode in fresh rock ~100m below the oxide results released in August 2022, including:
 - **32m @ 16.07g/t Au** from 48m incl. **16m @ 28.59g/t Au** (22SAAC058)
 - **20m @ 20.74g/t Au** from 48m incl. **16m @ 24.86g/t Au** (22SAAC061)



Diamond Drilling into the Target Shear Zone Now Underway

Sulphides and quartz in core – first assays in late December 2022.

- **6 diamond holes drilled at St Anne's since October 2022**, all intersecting the target shear zone.
- **Diamond drilling remains ongoing targeting strike and depth extensions.**
- **First assays due December 2022.**



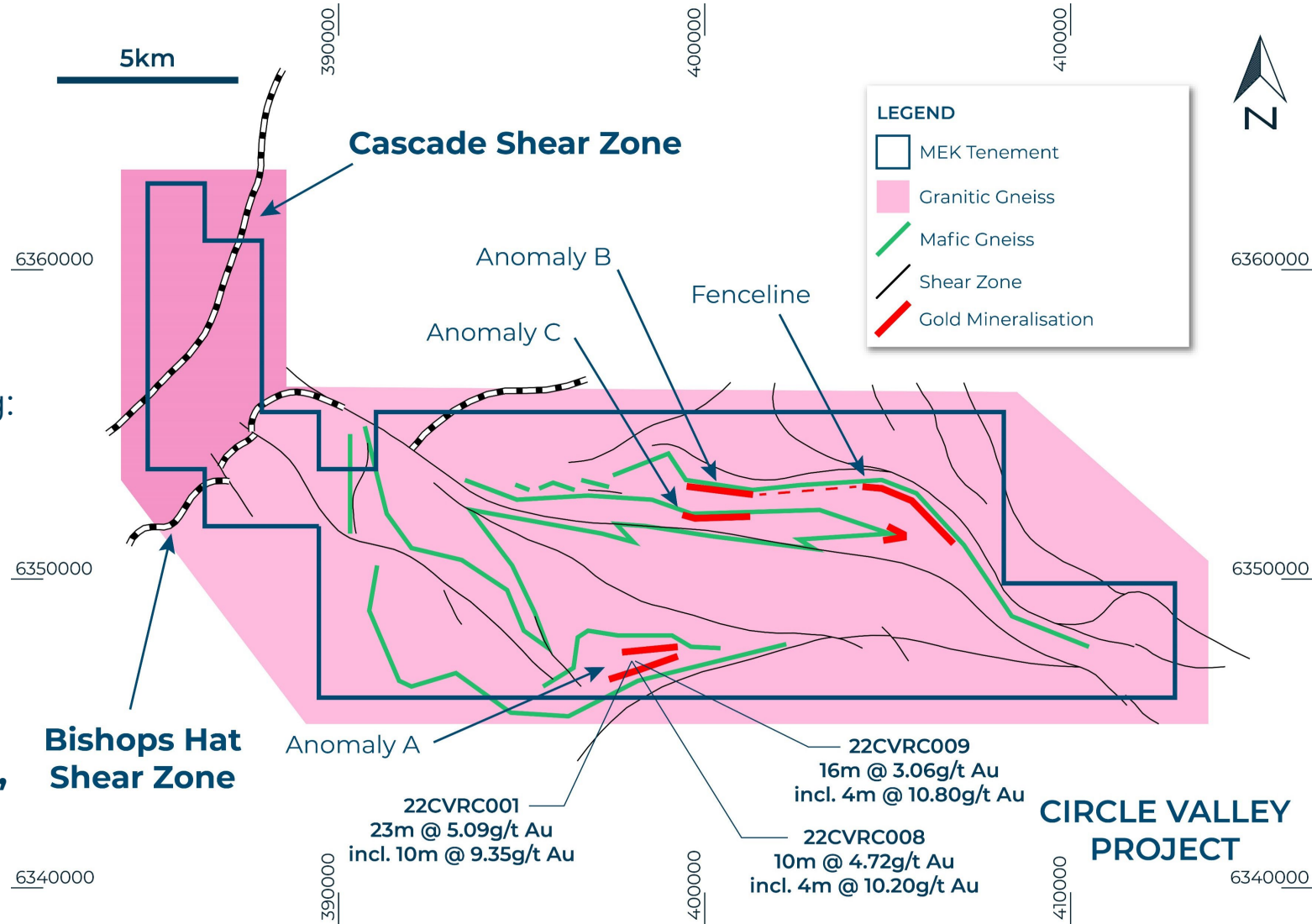
St Anne's diamond core ~20m below 22SARC005 (**4m @ 87.50g/t Au**).

22SADD001: 197.85m to 206.55m (assays pending)

Aggressive Drilling Delivering Results at Circle Valley

+18,000m of drilling completed since January 2022 – large kilometre scale gold anomalies defined.

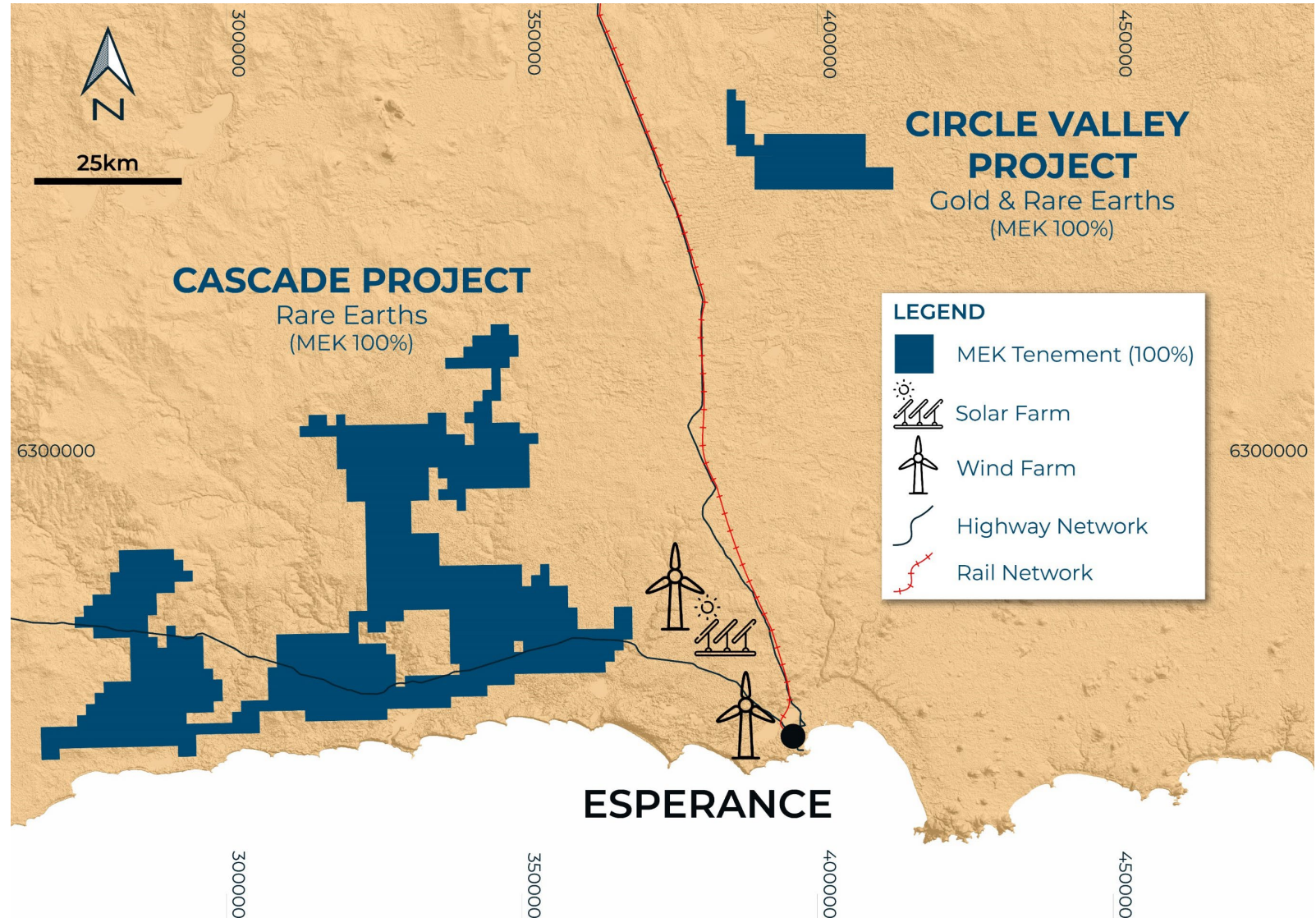
- **Four large scale gold anomalies defined by drilling.**
- Gold coincident with magnetic features.
- First target tested by RC drilling (Anomaly A) in January 2022 delivered broad zones of primary gold, including:
 - 23m @ 5.09g/t Au** from 13m (22CVRC001)
 - 24m @ 1.21g/t Au** from 24m (22CVRC010)
 - 16m @ 3.06g/t Au** from 32m (22CVRC009)
 - 10m @ 4.72g/t Au** from 120m (22CVRC008)
 - 32m @ 1.39g/t Au** from 4m (22CVRC025)
- **815m Anomaly A diamond drill program completed in October 2022, assays due January 2023.**



Early Mover Advantage in an Emerging Rare Earths Province

The Albany-Fraser Mobile Belt is an emerging clay hosted rare earths province.

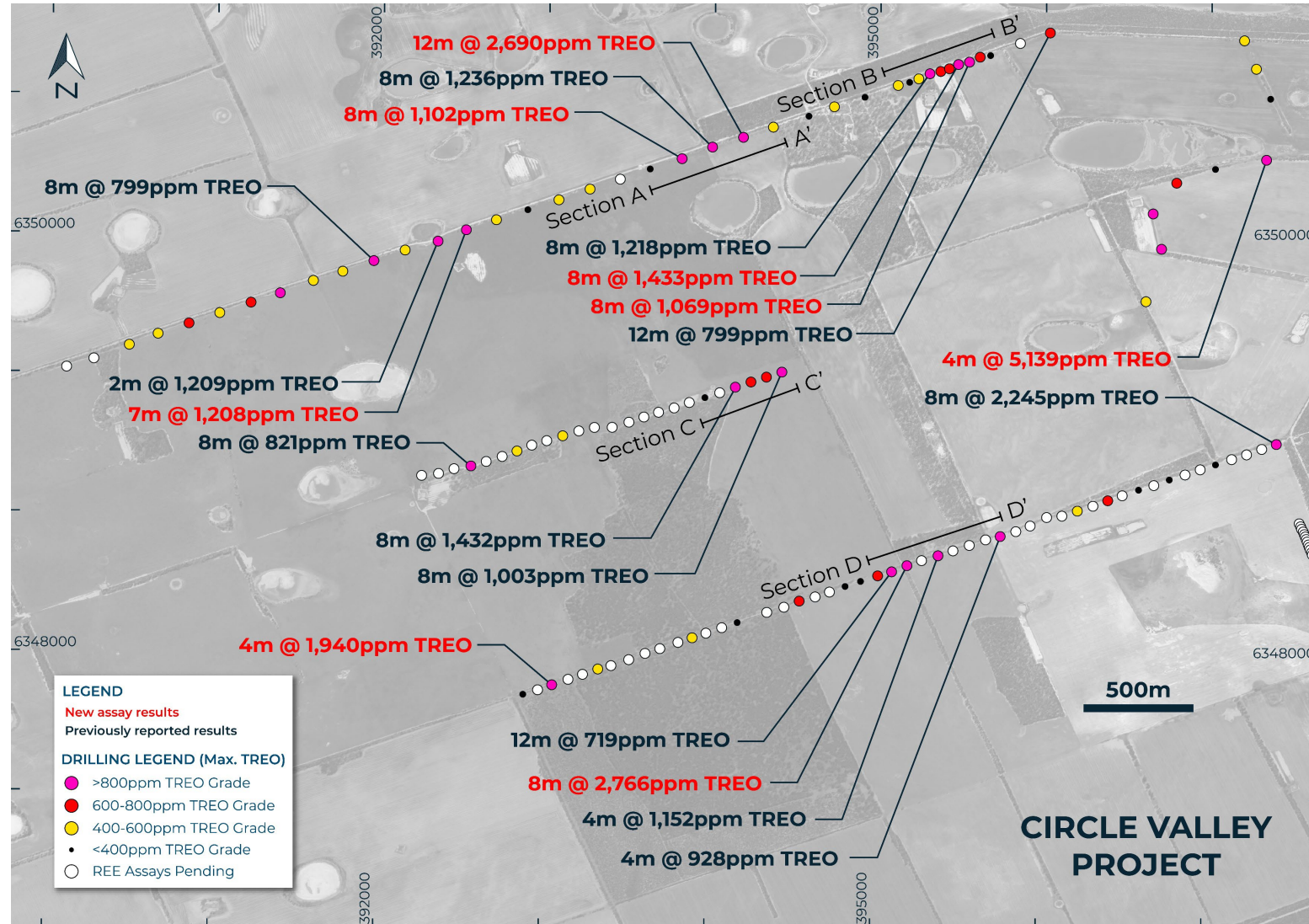
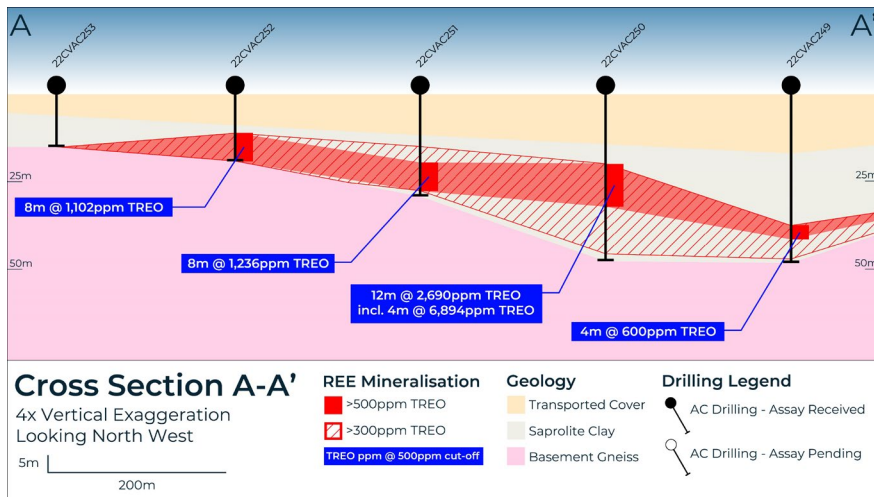
- **Province scale opportunity.**
- **Tier 1 location.**
- **2,500km² landholding.**
- **100% ownership.**
- **Excellent infrastructure** including port access through Esperance.
- **Abundant renewable wind and solar energy available.**
- **Fertile geology** – demonstrated pervasive, shallow, thick, high-grade clay rare earth mineralisation.
- **Positive first pass metallurgical test work** – average 82% for magnet rare earths and 76% overall.



High Value NdPr Magnet Elements at Circle Valley

Drilling results to date demonstrate high value NdPr averages 23% of TREO grade.

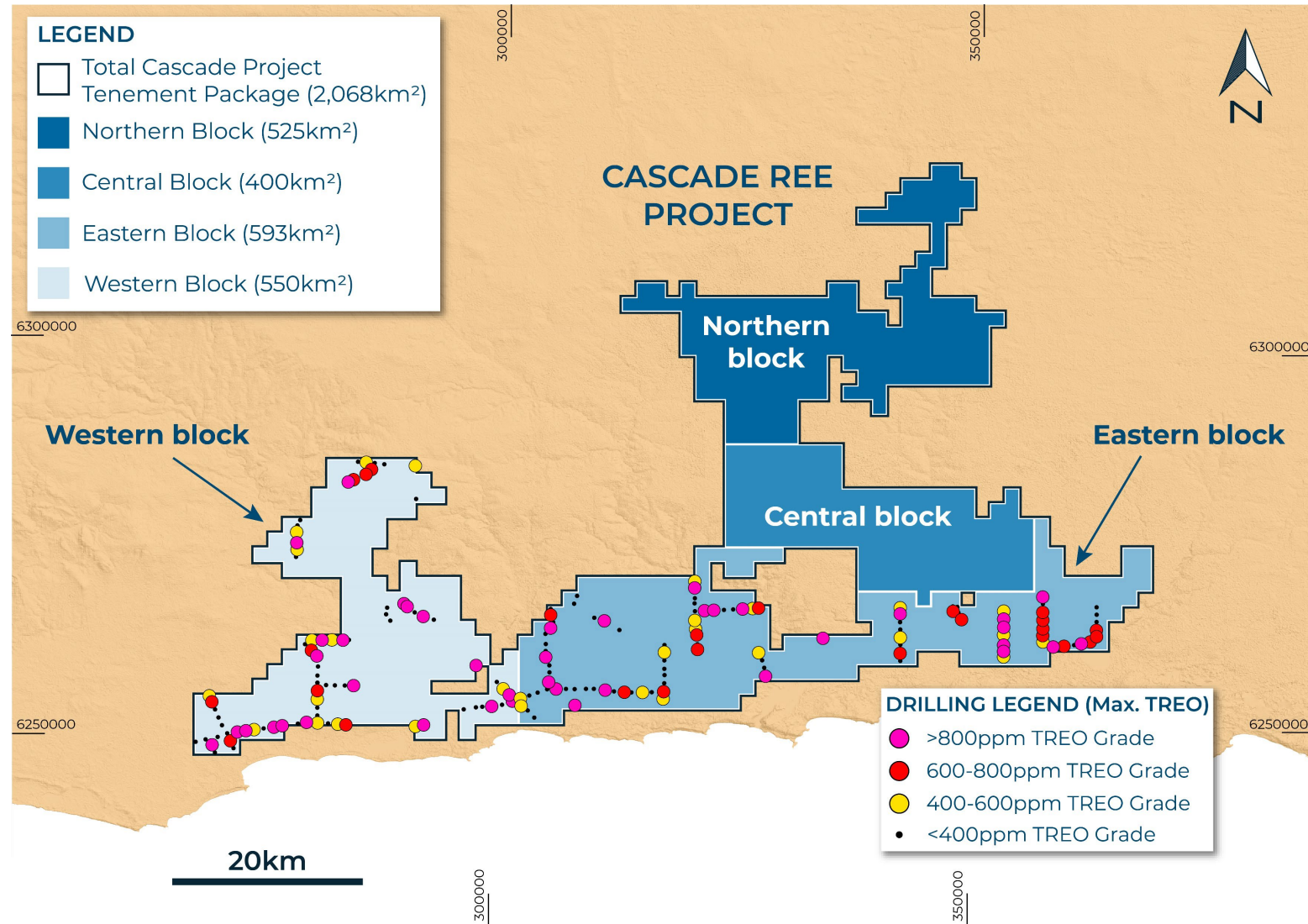
- Shallow, high-grade mineralisation up to **6,894ppm TREO**.
- **High proportion of NdPr – averages 23% of TREO basket** in drilling completed to date.
- **Potential for additional value upside from Scandium** (25g/t average grade) in addition to rare earth elements.



Shallow, Thick, High-Grade Mineralisation at Cascade

A step change in scale.

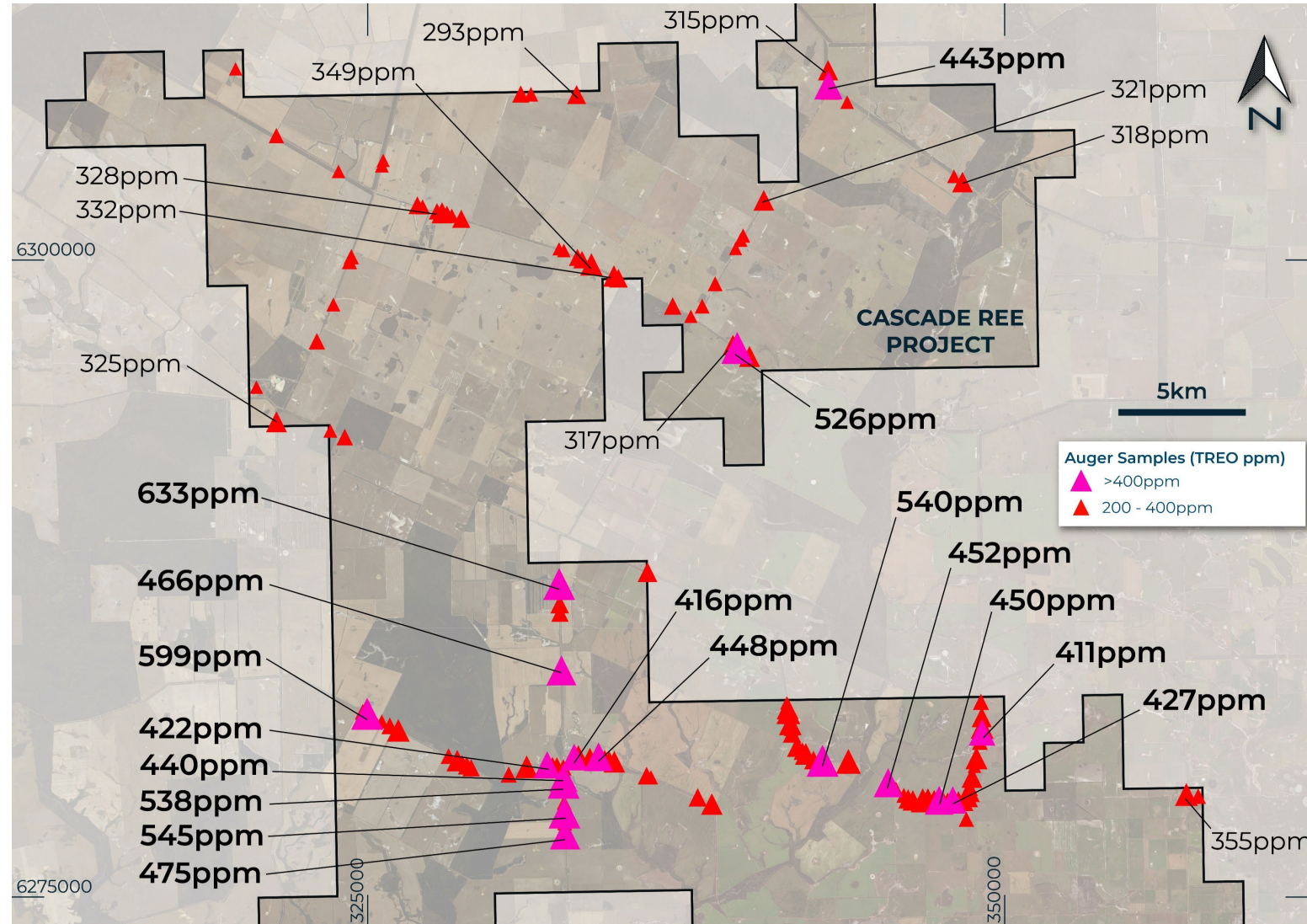
- **Remarkable scale potential**, 100km east to west, 65km north to south.
- Shallow, high-grade mineralisation up to **5,791ppm TREO**.
- **NdPr averages 20% of TREO basket** in drilling completed to date.
- **Northern and central blocks (925km²) remain untested by drilling** – surface samples grade up to 633ppm TREO and NdPr averaging 20% of TREO basket.



Significant Regional Potential to be Tested

Cascade northern and central blocks – 25km x 10km target defined by high grade surface samples.

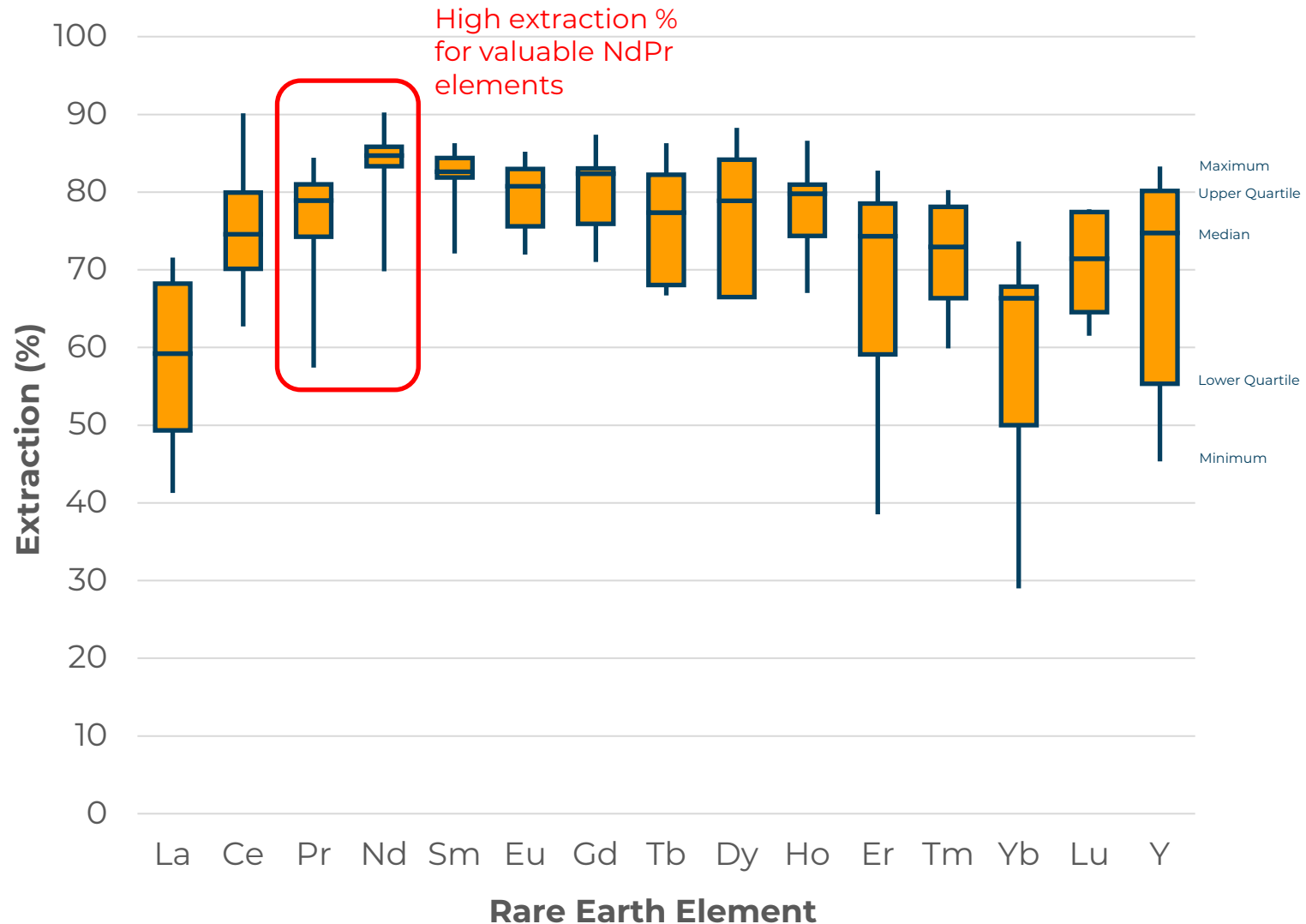
- **925km² northern and central blocks** have true scale potential and **remain untested by drilling**.
- **Auger surface samples** taken from the depleted surface horizon (1m depth) grade up to **633ppm TREO**.
- **NdPr averages 20% of TREO basket** in auger samples.
- **Potential for additional value upside from Scandium** which averaged 28g/t in addition to rare earth elements.



Positive Initial REE Metallurgical Test work

High extraction % of valuable NdPr elements.

- **Metallurgical testing** by ANSTO using various extraction techniques **demonstrates total rare earth extraction up to 82%, averaging 76%.**
- **Extraction of high value NdPr up to 87%, averaging 79%.**
- **Further test work underway** to refine and improve the metallurgical processes.
- Upstream mineral processing techniques also being evaluated to upgrade mineralisation and remove non-target elements prior to extraction.



Looking Forward

Planned work program through 2023.

Q4
CY22 Q1
CY23 Q2
CY23 Q3
CY23 Q4
CY23

REE Work Programs

Metallurgical Test Work



Drilling

Aircore drilling - Cascade Northern / Central Blocks.



Resource Definition

Infill drilling - Circle Valley.



Gold Work Programs

Drilling

Follow-up diamond drilling - Anomaly A (Circle Valley).



RC strike/depth extension drilling - Anomaly A (Circle Valley).



Resource Definition

Extensional / infill drilling - St Anne's (Murchison).



Study Work

Pre-feasibility Study - Murchison Gold Project.



Definitive Feasibility Study - Murchison Gold Project.



Value Underpinned by Strategically Located 1.1Moz Gold Resource

Key takeaways.



Large high-grade gold Mineral Resource

High-grade, high confidence 1.1Moz Mineral Resource.



Aggressively pursuing Mineral Resource growth

Potential Tropicana lookalike at Circle Valley.

Mineral Resource extensions at Murchison.



High-grade rare earth opportunity

Blue sky upside from large scale high-grade rare earths opportunity.

Appendix 1

JORC 2012 Mineral Resource Statement

Project	Measured			Indicated			Inferred			Total		
	Tonnes ('000t)	Grade (g/t)	Ounces ('000oz)	Tonnes ('000t)	Grade (g/t)	Ounces ('000oz)	Tonnes ('000t)	Grade (g/t)	Ounces ('000oz)	Tonnes ('000t)	Grade (g/t)	Ounces ('000oz)
Andy Well	150	11.4	55	1,050	9.3	315	650	6.5	135	1,800	8.6	505
Turnberry				6,800	1.6	355	4,500	1.8	255	11,300	1.7	610
TOTAL	150	11.4	55	7,850	2.7	670	5,150	2.4	390	13,100	2.6	1,115

Notes:

1. Mineral Resources previously reported to the ASX on 18th May 2021 in announcement titled "Murchison Gold Mineral Resource Grows 44% to +1.1 Million Ounces".
2. Mineral Resources are produced in accordance with the 2012 Edition of the Australian Code for Reporting of Mineral Resources and Ore Reserves (JORC 2012).
3. Andy Well Mineral Resource is reported using 0.1g/t cut-off grade.
4. Turnberry Open Pit Mineral Resource is reported within a A\$2,400/oz pit shell and above 0.5g/t cut-off grade.
5. Turnberry Underground Mineral Resource is reported outside a A\$2,400/oz pit shell and above 1.5g/t cut-off grade.
6. Numbers in the Mineral Resource table have been rounded.



ASX:MEK

Tim Davidson
Managing Director

(08) 6388 2700

info@mEEKAMETALS.COM.AU

WWW.MEEKAMETALS.COM.AU

