



# MetalsGrove

## 121 MINING AND ENERGY INVESTMENT SINGAPORE

### ADVANCED CRITICAL METALS PORTFOLIO

RAPID EXPLORATION AND DEVELOPMENT  
WESTERN AUSTRALIA AND NORTHERN TERRITORY

**ASX: MGA**

September 2023

[www.metalsgrove.com.au](http://www.metalsgrove.com.au)

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## COMPETENT PERSON STATEMENT

The information in this presentation that relates to Exploration Results is based on information compiled by Mr. Sean Sivasamy who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Sivasamy is Managing Director and CEO of MetalsGrove Mining Limited and has sufficient experience which is relevant to the style of mineralisation under consideration to qualify as a Competent Person as defined in the 2012 Edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Sivasamy consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

## AUTHORISATION STATEMENT

This presentation is authorised for market release by MGA's Board of Directors.

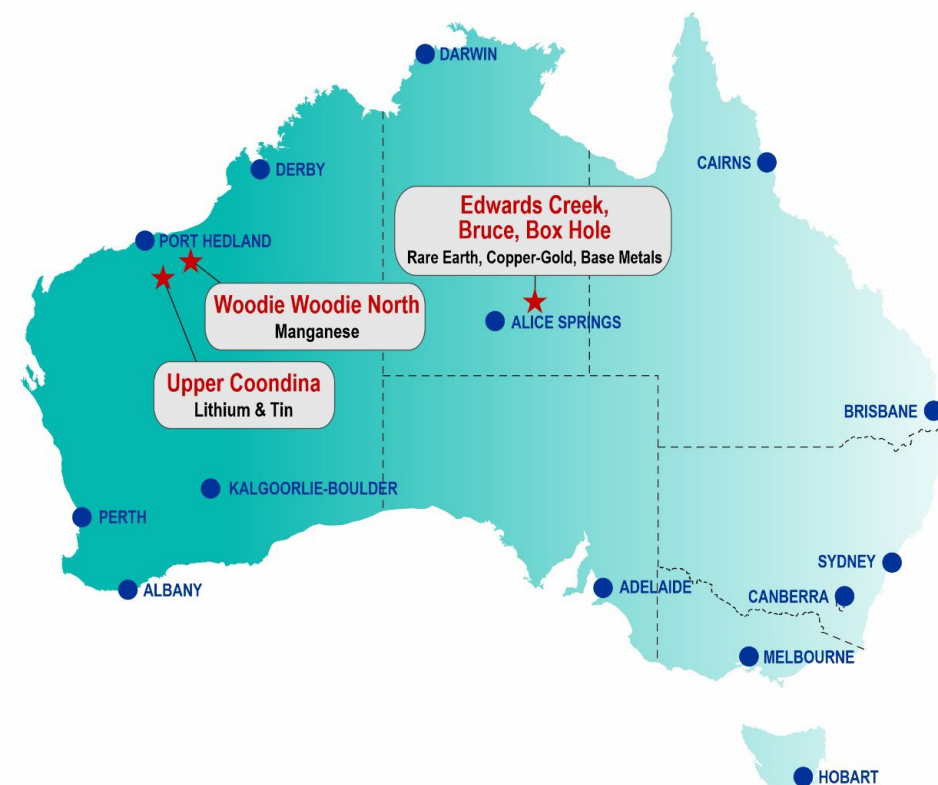
All currency amounts are in Australian dollars unless specified otherwise.



# Highly Prospective Advanced Green Metal Portfolio

## Lithium, Rare Earth, Base Metal and Manganese Portfolio in the Tier-1 Mining Jurisdictions Western Australia and Northern Territory

- **Bruce–NT (MGA 100%)**
  - Well connected to existing infrastructure.
  - 2,300m maiden RC drilling completed.
  - **7,000ppm (0.70%) TREO, 35% MREO/TREO, 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO** with multiple zones of mineralisation.
- **Upper Coondina–WA (MGA 100%)**
  - Located in the infrastructure rich Pilbara, excellent access to service.
  - 4,200m maiden RC drilling completed.
  - 40m wide mineralised zone, up to **0.20% Li<sub>2</sub>O, 0.6% Rb<sub>2</sub>O and 118ppm Ta<sub>2</sub>O<sub>5</sub>.**
- **Edwards Creek-NT (MGA 100%)**
  - Historical drilling intersected high grade copper mineralisation **4m @ 2.25% Cu.**
  - Newly discovered malachite-stained ironstone unit returned a maximum value of **0.81% Cu.**
- **Box Hole-NT (MGA 100%)**
  - Large tonnage base metal project, 7km strike known mineralisation.
  - Several mineralised outcrops over 12,000m historical drilling.
  - **13m @ 2.65% Zn, 0.95% Pb from 16m Incl: 8m @ 3.40% Zn, 0.95% Pb from 17m.**
- **Woodie Woodie North-WA (MGA 100%)**
  - Well defined walk-up drilling targets and well connected to existing mining infrastructure.
  - Surface sampling has returned several highly anomalous manganese, assays up to **52% Mn.**



# Advanced Critical Metals Portfolio

## MGA is advancing multiple high-quality critical metals projects with a strong pipeline of results

- ✓ Bruce Phase II drilling program to commence Q4 2023 to test 9km carbonatite outcrop.
- ✓ Upper Coondina Phase II drilling program to commence Q2 2024 to test downdip extension of 40m wide pegmatite-spodumene mineralisation.
- ✓ Edwards Creek phase II drill program commence Q2 2024 to test the known mineralisation down dip extension.
- ✓ Box Hole Prospect maiden drill program to commence Q3 2024 to test the known mineralisation and geophysical targets.
- ✓ Maiden drilling program Woodie Woodie North Manganese Project in Q2 2024 to test broad conductor located along the major structural corridor.

## CAPITAL STRUCTURE

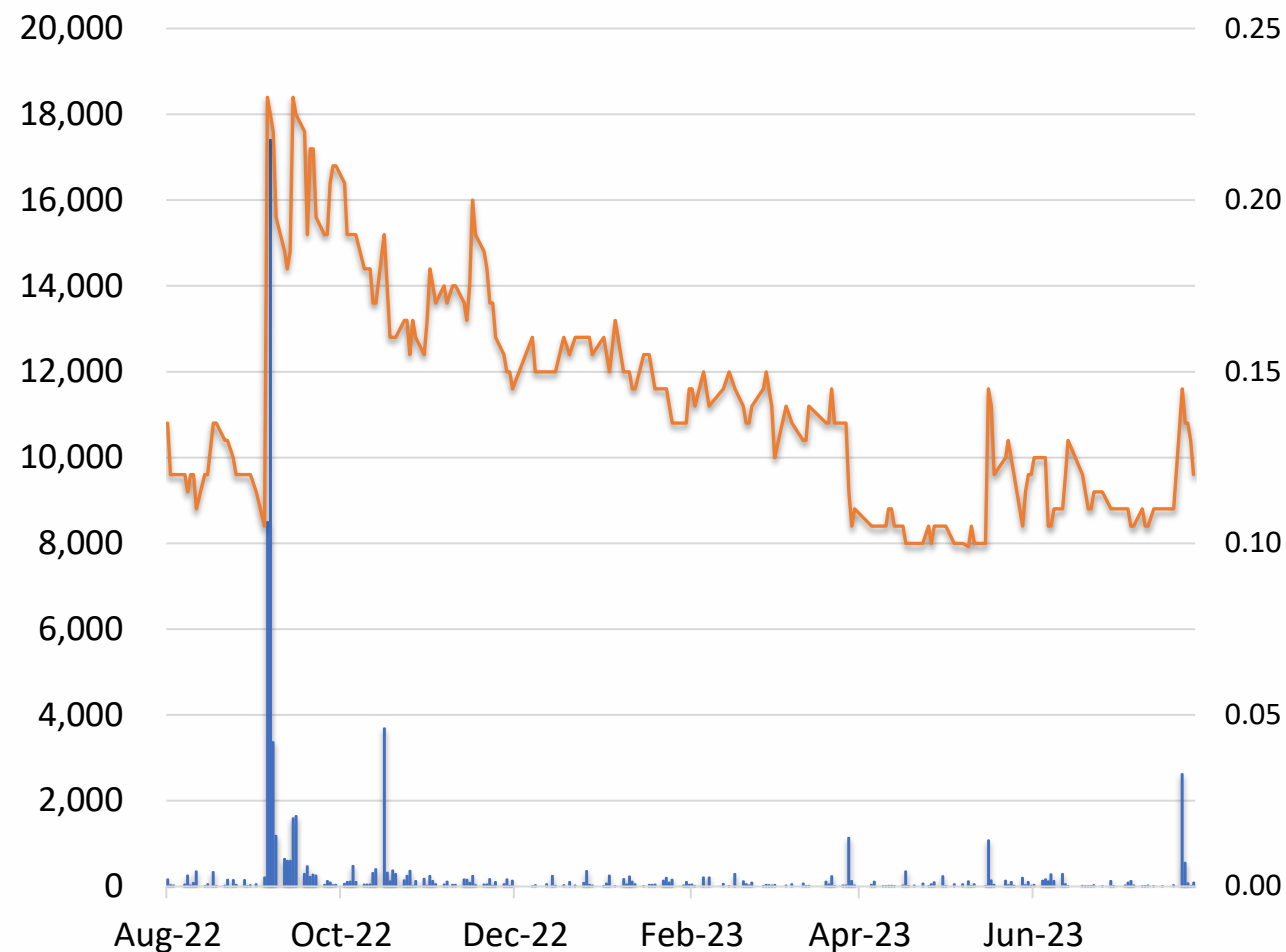
Share Price 07/09/2023)	A\$0.12
52 Week Range	10c-34c
<b>Total Number of Shares on Issue</b>	<b>52.7m</b>
Market Capitalisation	A\$6.4m
Cash Balance (30 <sup>th</sup> June 2023)	A\$3.1m

## TOP 5 SHAREHOLDERS

Bright Element	11.7%
OreMin	11.6%
Mrs Hui An	10.4%
Fountain Stream	9.5%
Catalina Resources	9.0%
Other	47.8%

Volume (000s)

Share Price (A\$)





## Experienced Leadership

### Mr. Richard Beazley

Non-Executive Chairman



A mining engineer with 35 years of experience with a strong corporate, operational and technical background in mining, renewables, infrastructure and manufacturing and has worked on projects throughout Australia, Africa and South America.

Founder and Director of both Altair Mining Consultancy and Hydrogen Energy Pty Ltd and the Interim CEO and Managing Director for Troy Resources (ASX:TRY).

Managing Director Peak Resources Limited (ASX:PEK), Chief Operating Officer Sandfire Resources NL (ASX:SFR), Consolidated Minerals, St Barbara Limited (ASX:SBM) and Greenbushes at Sons of Gwalia Ltd (ASX:SGW).

### Mr. Sean Sivasamy

Managing Director and CEO



A skilled mining professional with a Master's Degree in Geology with more than 25 years of global experience.

He has held Director and Senior Management roles in Tambourah Metals Ltd (ASX:TMB), Pilgangoora Minerals, Aditya Birla Minerals (ASX:ABY), OreMin Consultants and other roles within large, medium and junior mining companies in Australia, Africa, India and South East Asia.

In his career has identified a gold resource in Victoria which eventually had estimated gold deposits of circa 1m ounces and discovered a copper sulphide deposit in Western Australia. He also identified 4 copper deposits in Queensland for further exploration and mining.

### Mr. Haidong Chi

Non-Executive Director



Extensive experience in the commodity trading markets for the past 20 years. He also holds a Master's degree in Business Administration (MBA) from Peking University.

One of the very early co-founders of Kimberley Metals Group and KMG Mining Pty Ltd, he has been Managing Director of the company's business operations.

Vice President of US Capital Holdings Group, a US based private equity investment company that specialises in assisting Chinese companies gain access to international capital markets.



# Investment Highlights

## Rare Earth (REE)

### Well Connected Infrastructure, High-Grade Critical Metals Targets

- Clear pathway to establish economic long-term producing assets.
- 2,300m maiden RC drilling completed, **7,000ppm (0.70%) TREO, 35% MREO/TREO, 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO** with multiple zones of mineralisation.
- Exceptionally high-grade carbonatite of **38% MREO/TREO, 58% HREO/TREO, 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO.**
- Carbonatite dyke outcrops extend strike east-west by 9km and remain open.
- Follow-up soil sampling completed Q3 2023 within carbonatite outcrops area for follow drilling.
- Potential for sufficient REE minerals resource tonnes.
- Aggressive follow-up drilling program planned Q4 2023.



# Investment Highlights-Lithium Tin Tantalum

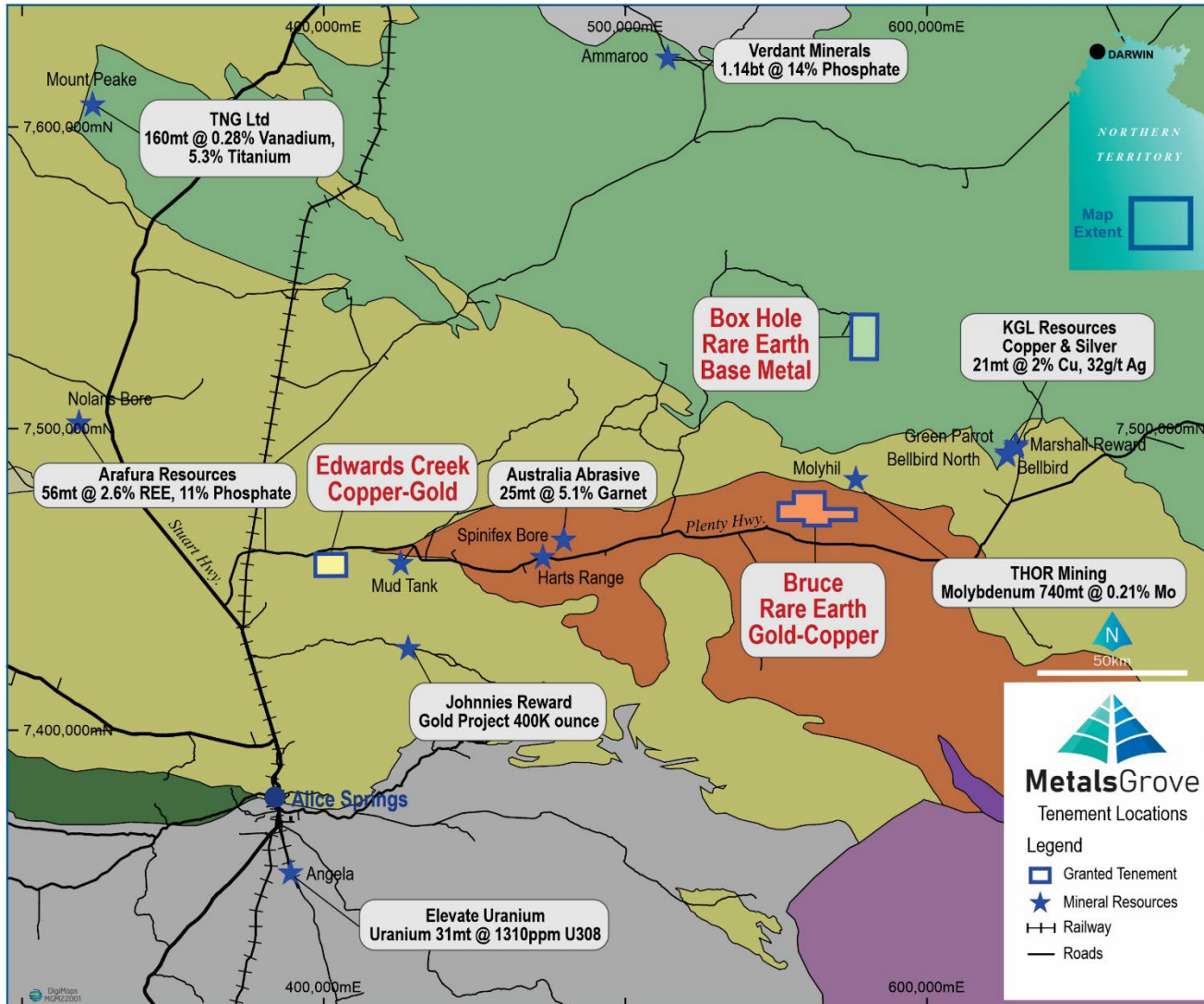
## Proven Mining Jurisdiction, High-Grade Battery Metals Targets

- Assets within ~60km and adjacent to of major Lithium and Tantalum producers: Pilbara Minerals (ASX: PLS) A\$13.1B, Mineral Resources (Wodgina) (ASX: MIN) A\$13.5B and Global Lithium (Archer) (ASX: GL1) A\$380M.
- Historically surface mined produced high-grade tin/tantum concentration by mining pegmatites (up to 42.2% tin and 3.41% tantalum).
- Recent RC drilling at Chola prospect confirmed spodumene mineralisation.
- 4,200m maiden RC drilling completed, up to **40m wide mineralised zone, up to 0.20%  $\text{Li}_2\text{O}$ , 0.6%  $\text{Rb}_2\text{O}$  and 118ppm  $\text{Ta}_2\text{O}_5$ .**
- Aggressive follow-up drilling program planned.





# Arunta Project - NT Rare Earth, Base Metals, Copper-Gold



- Access via Stuart and Plenty Highway.
- Well connected to existing infrastructure.
- Discovery of rare earth (REE) associated with Cu-Au and base metal mineralisation has recently been demonstrated in the Arunta project.

Refer to slide 25 for further information with respect to the third-party results.

# Arunta Project

## Rare Earth, Base Metals, Copper-Gold

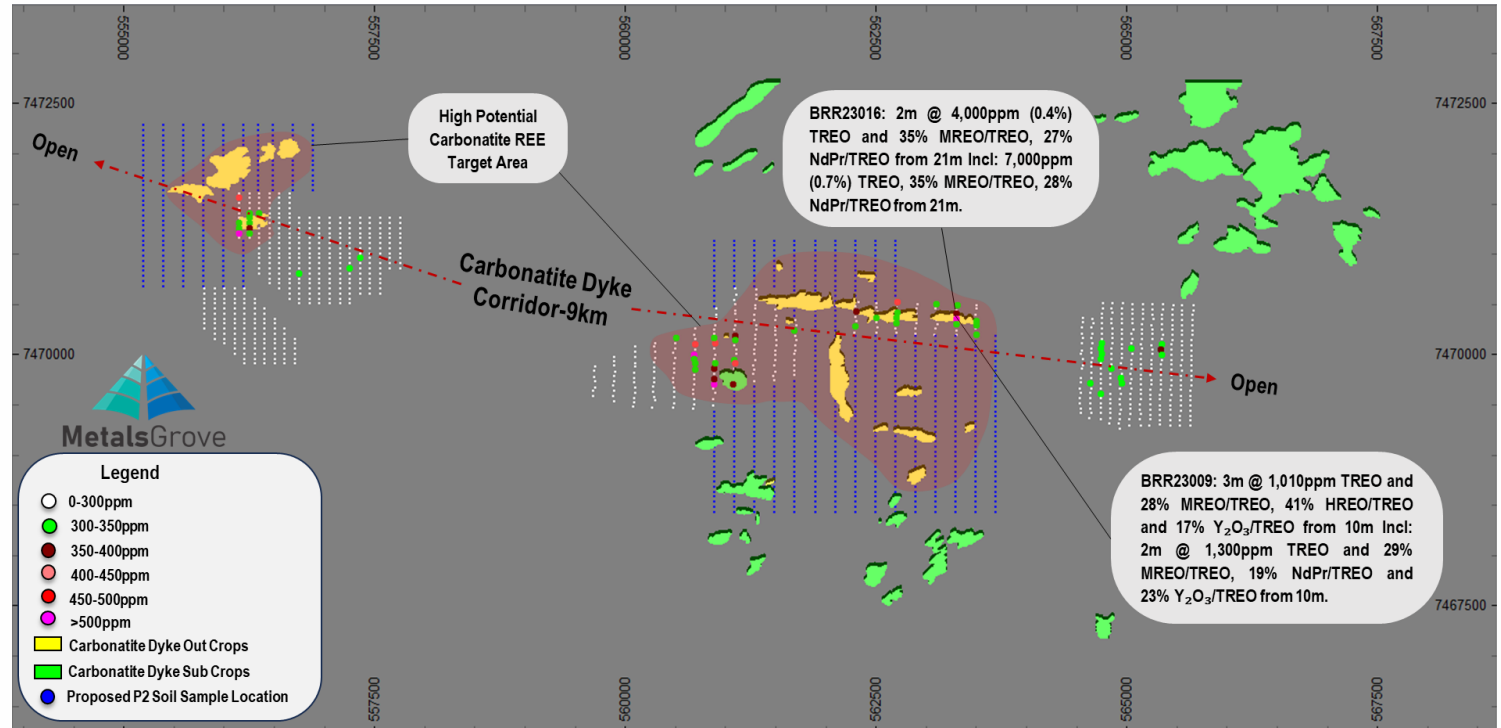
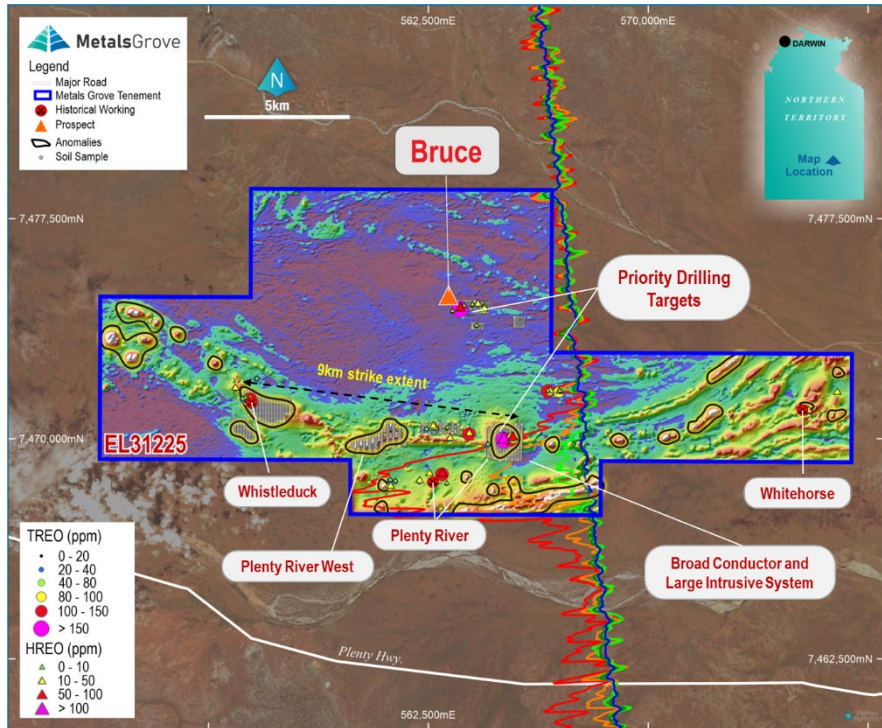
- Exciting Rare Earth (REE) and Base Metals mineralisation confirmed.
- Multiple advanced walk-up drill targets.
- 3,000m maiden drilling program completed at Bruce and Edwards Creek.
- 5,000m phase II follow up drilling program is planned.

**“Recent drilling has confirmed broad conductor along strike from the Plenty River mine adjacent to magnetic features intercepted high-grade rare-earth element (REE) mineralisation.”**



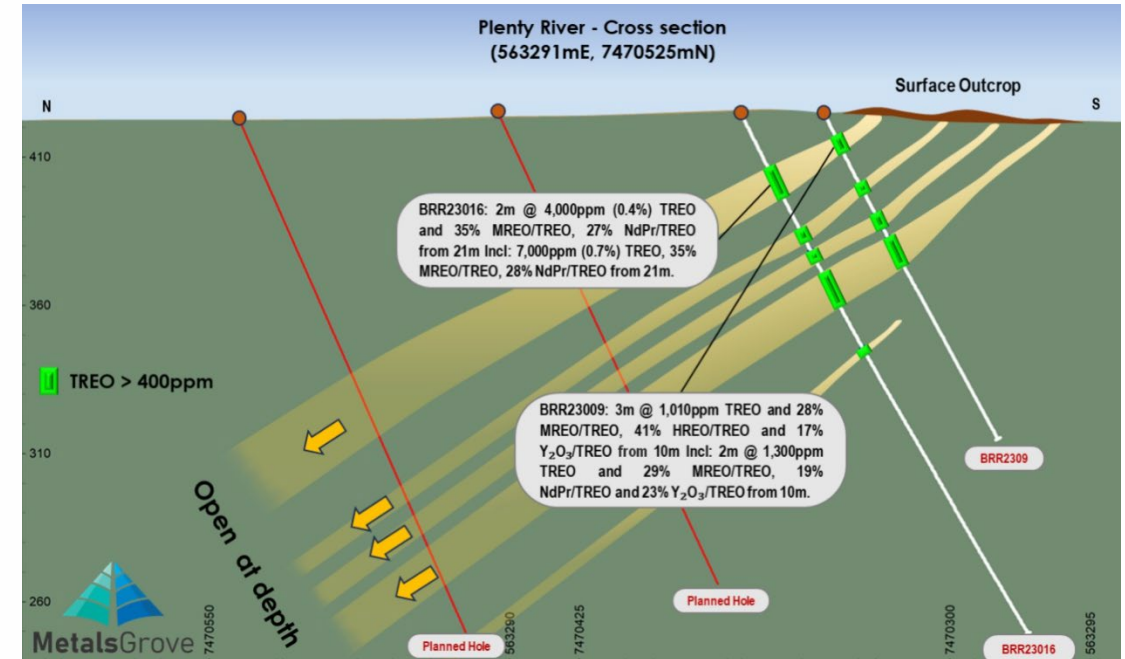
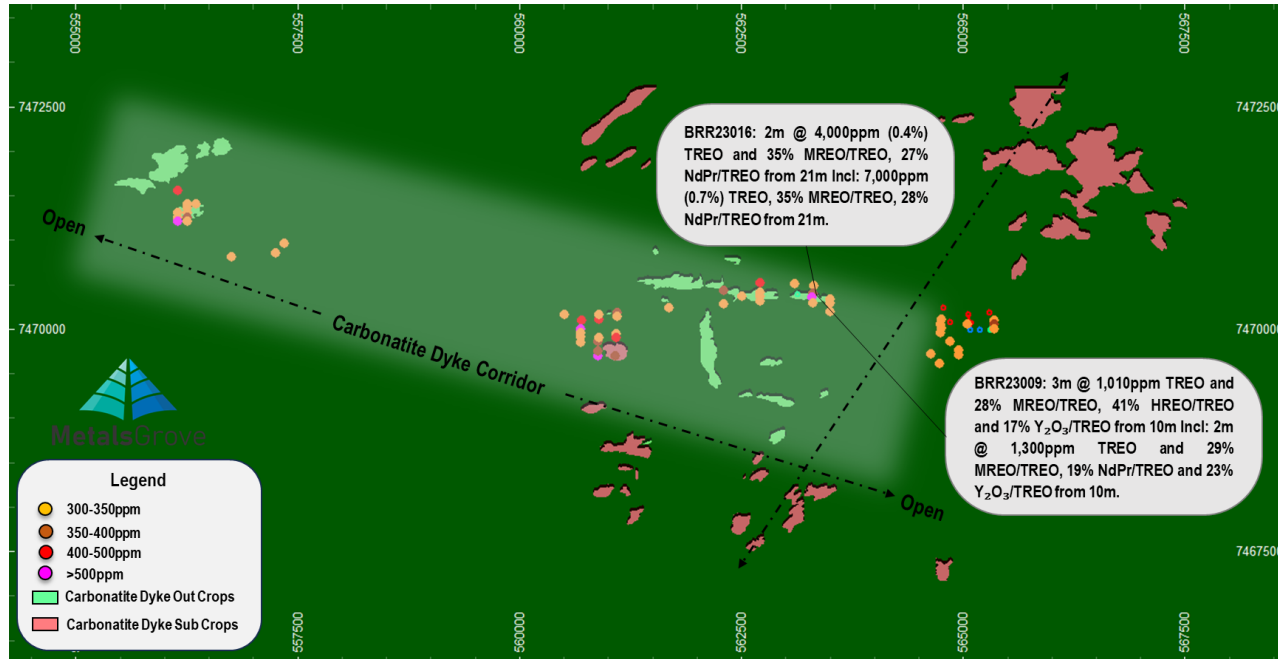


# Bruce: Rare Earth Element (REE) Discovery



- High percentage of valuable magnetic and heavy rare earth elements up to 1,800ppm TREO, 38% HREO/TREO, 31% MREO/TREO, 23% NdPr/TREO, 23% Y<sub>2</sub>O<sub>3</sub>/TREO.
- Significant copper-gold and base metal anomalies also confirmed.
- Outcropping strike of carbonatite and high-grade REE mineralisation now extends over 9 km with multiple mineralised targets identified.
- 2,300m RC drilling program targeted key REE and copper-gold targets.

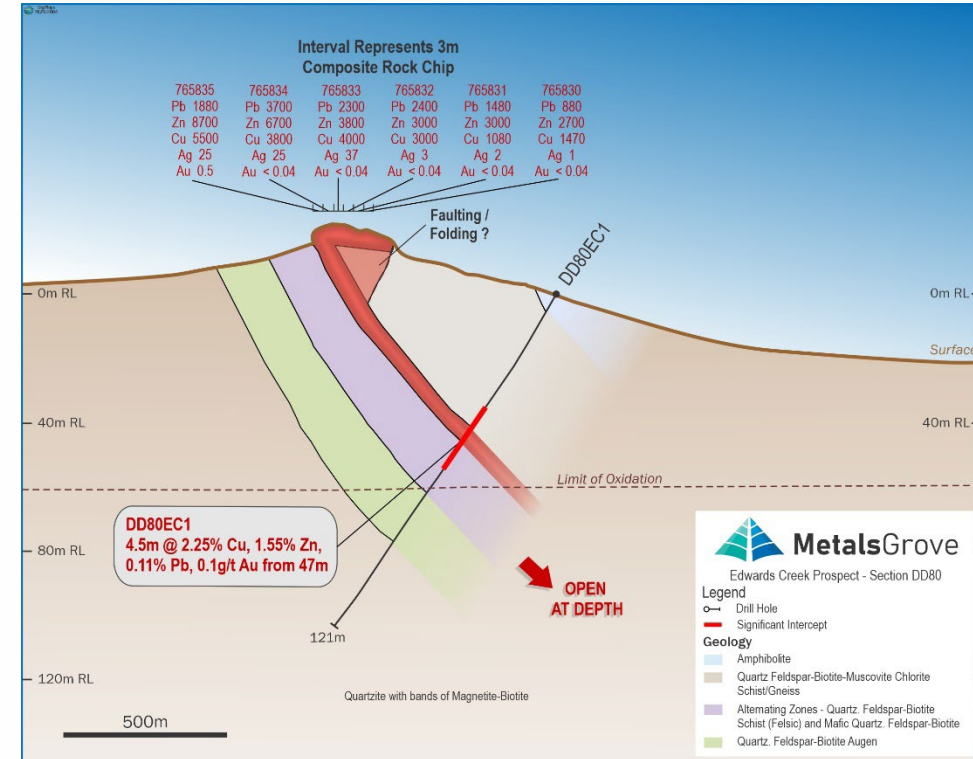
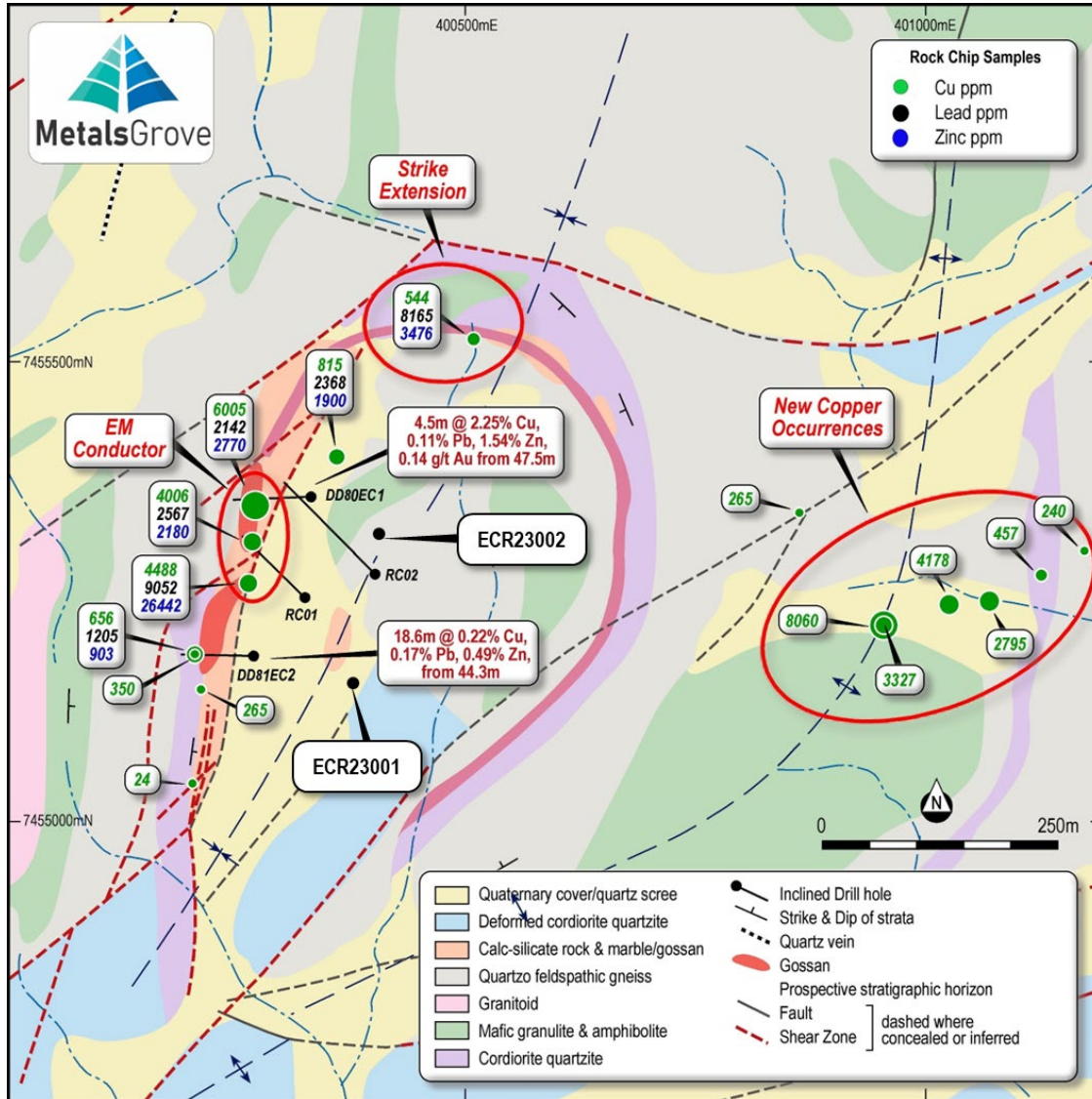
# Bruce: Rare Earth Element (REE) Discovery



- High-grade carbonatite REE grades of up to 7,000ppm (0.70%) TREO, 35% MREO/TREO, 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO with multiple zones of mineralisation.
- Exceptionally high-grade carbonatite of 38% MREO/TREO, 58% HREO/TREO, 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO.
- Potential for sufficient REE minerals resource tonnes.
- BRR23003: 33m @ 13% MgO from 39m and 3m @ 535ppm V<sub>2</sub>O<sub>5</sub> from 45m.
- BRR23013: 1m @ 7,785ppm Cu (0.8% Cu) from 103m, 3m @ 1,000ppm PbO<sub>2</sub> from 63m, 2m @ 1,170ppm PbO<sub>2</sub> from 84m and 3m @ 1,245ppm ZnO from 63m, 2m @ 1,710ppm ZnO from 83m.



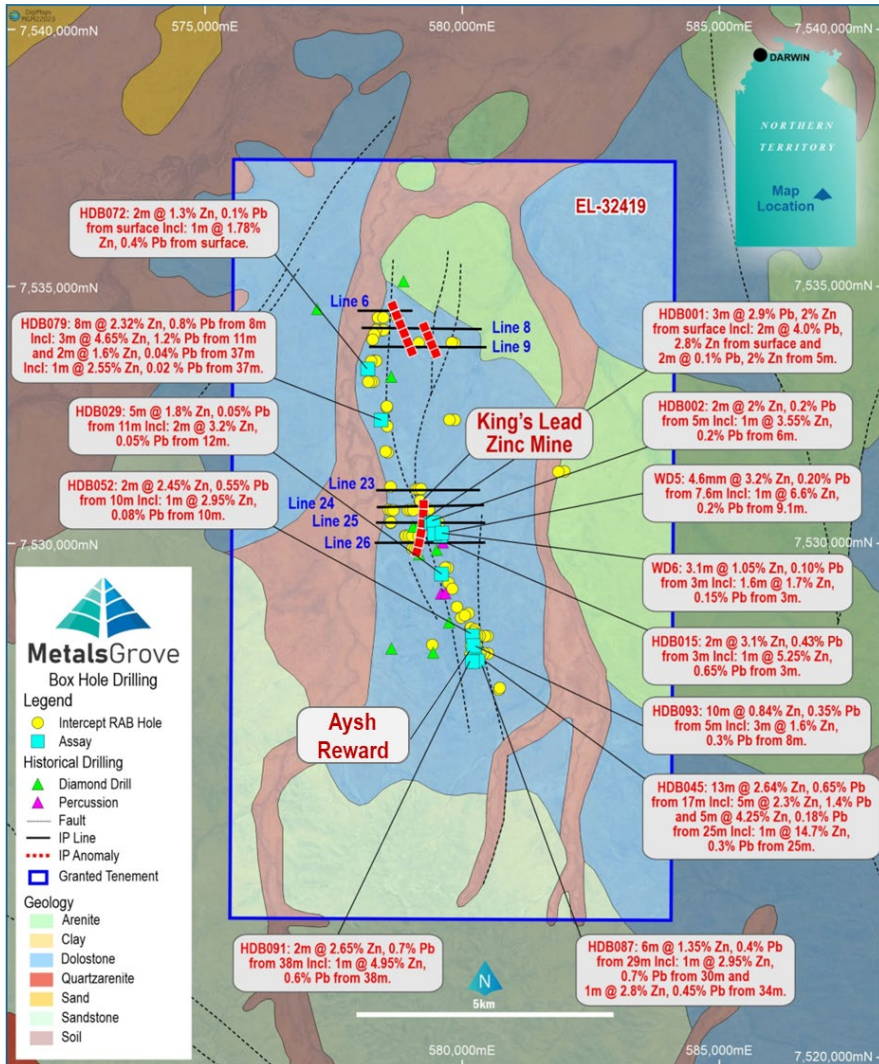
# Edwards Creek: Advanced Copper and Base Metal



- Drill hole DD80EC1: 4.5m @ 2.25% Cu, 0.11% Pb, 1.54% Zn, 0.14 g/t Au from 47m.
- Drill hole DD81EC2: 18.6m @ 0.22% Cu, 0.17% Pb, 0.49% Zn, 0.14 g/t Au from 44.3m.
- Newly discovered malachite-stained ironstone returned 0.81% Cu.



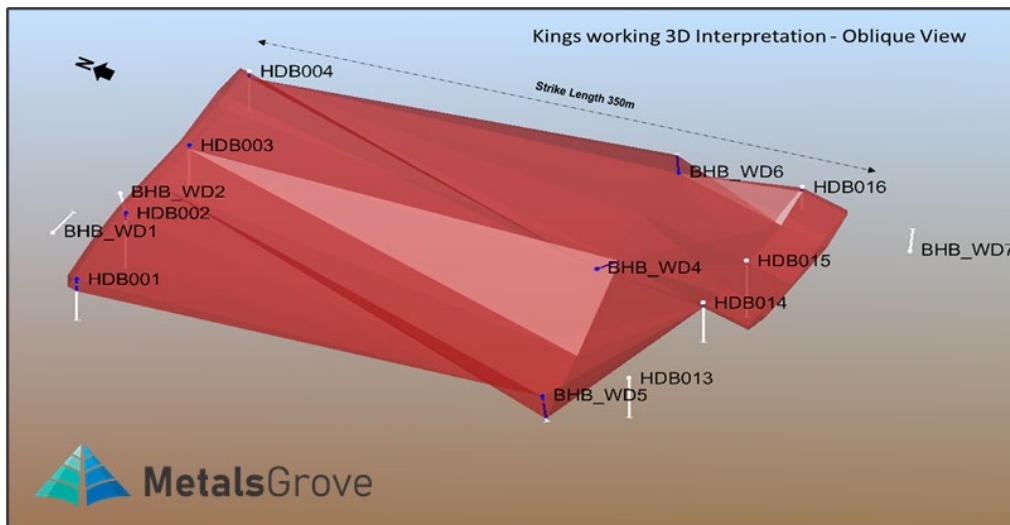
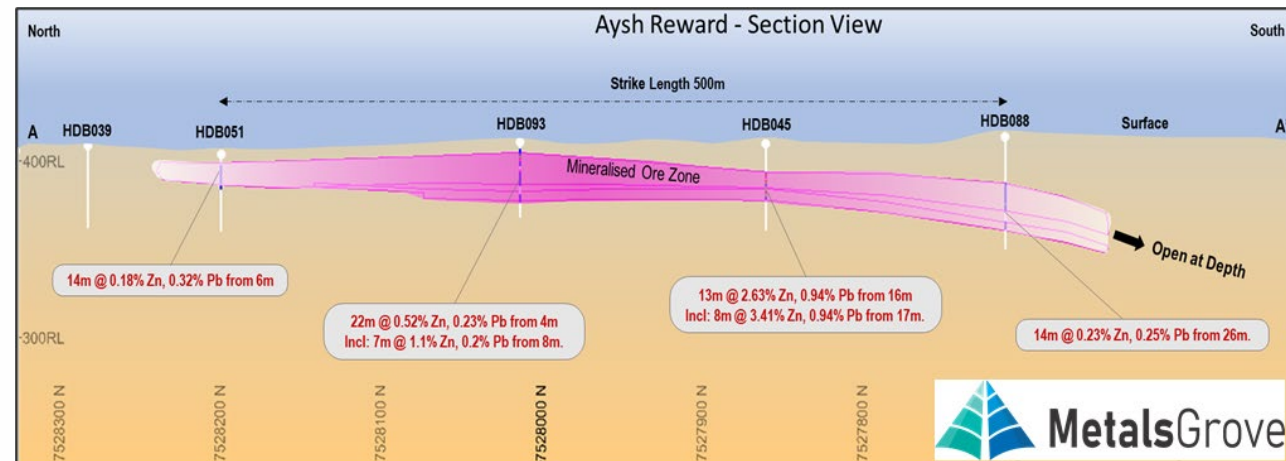
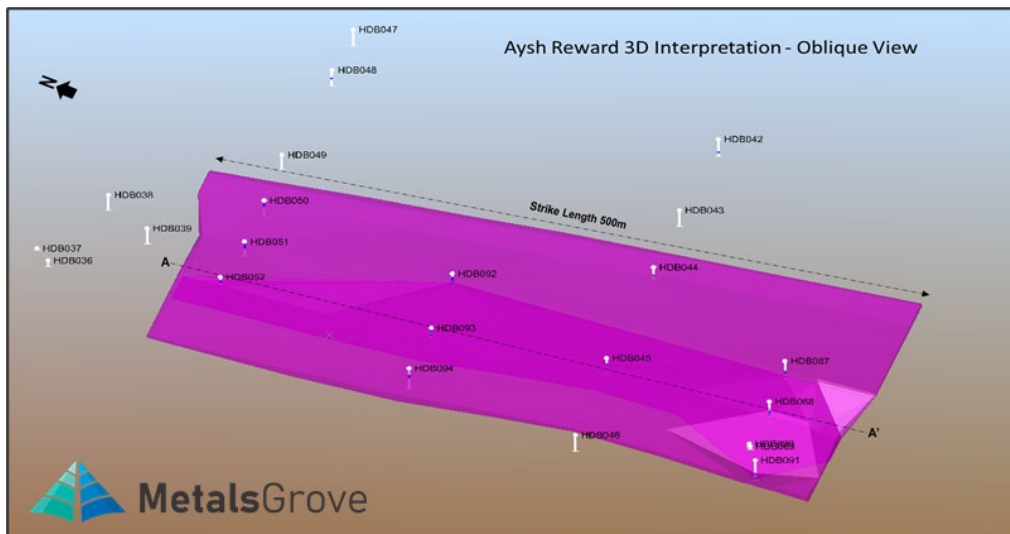
# Box Hole: Base Metals and Rare Earth



- Mississippi Valley Type (MVT) deposits.
- Large tonnage carbonate hosted lead-zinc mineralisation.
- Multiple walk-up drilling targets already identified.
- High potential for large tonnage REE mineralisation.
- 2,000m RC drilling planned to test the high priority drilling targets.

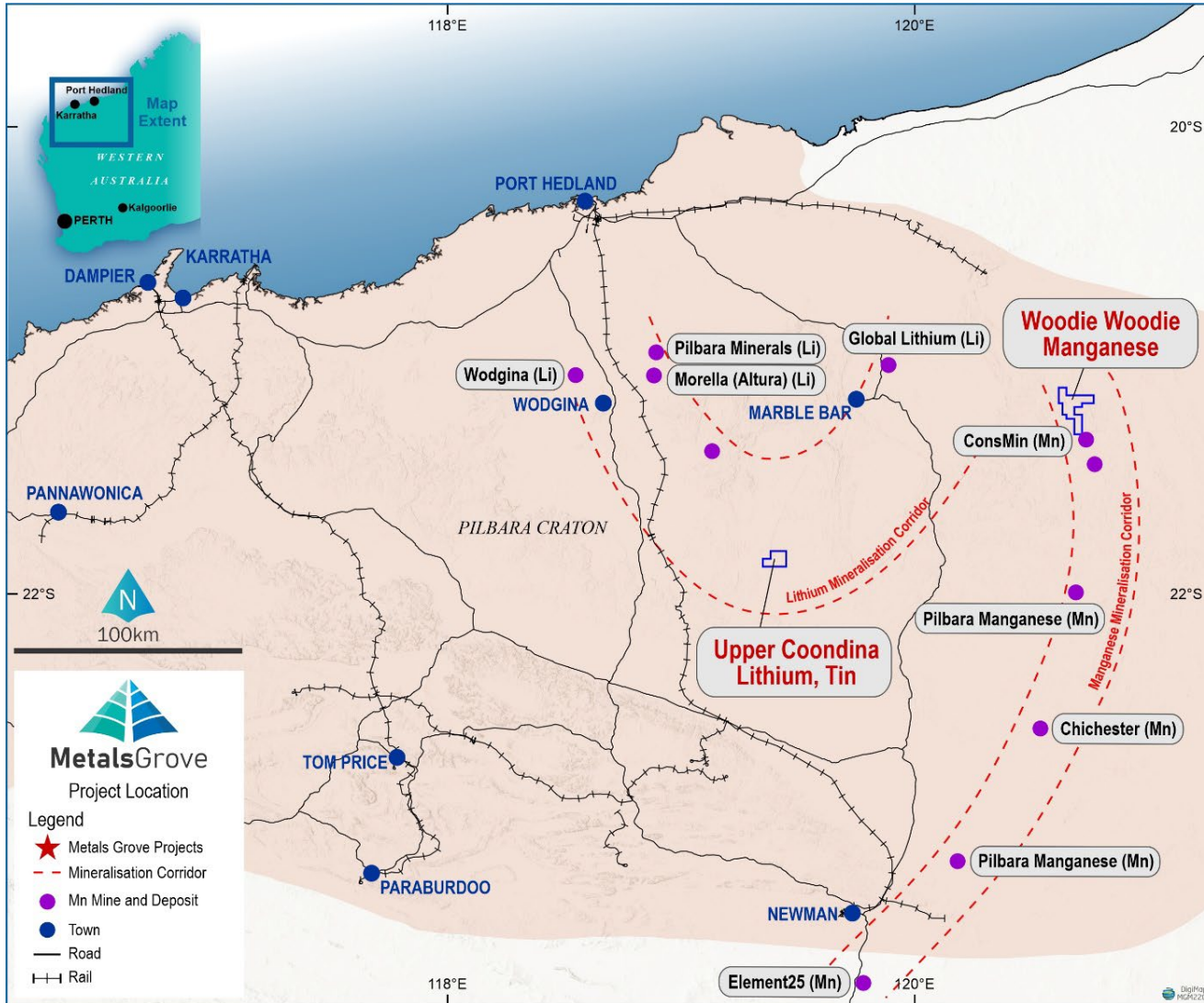


# Box Hole Prospect: Large Opencut Mine Potential



- King's working historically mined 15t of galena with an average grade of **66% Pb, 58.50 g/t Ag and 0.43% Bi**.
- HDB045: 13m @ 2.7% Zn, 0.7% Pb from 17m Incl: 5m @ 2.3% Zn, 1.4% Pb and 5m @ 4.3% Zn, 0.2% Pb from 25m Incl: 1m @ 14.7% Zn, 0.3% Pb from 25m.
- HDB079: 8m @ 2.3% Zn, 0.8% Pb from 8m Incl: 3m @ 4.7% Zn, 1.2% Pb from 11m and 2M @ 1.6% Zn, 0.1% Pb from 37m Incl: 1m @ 2.6% Zn, 0.02 % Pb from 37m.
- WD5: 5m @ 3.2% Zn, 0.2% Pb from 7.6m Incl: 1m @ 6.6% Zn, 0.2% Pb from 9.10m.
- High potential large opencut mine.

# Upper Coondina – Lithium Tin Tantalum



- Located halfway between Port Hedland and Newman in WA.
- Single granted EL covering 6,363 ha - maximum distance across the project is about 11 km east-west and 8 km north-south.
- Priority drill target is the Chola Prospect – a pegmatite corridor measuring 4.0 km x 2.0 km.



# Upper Coondina Project - WA

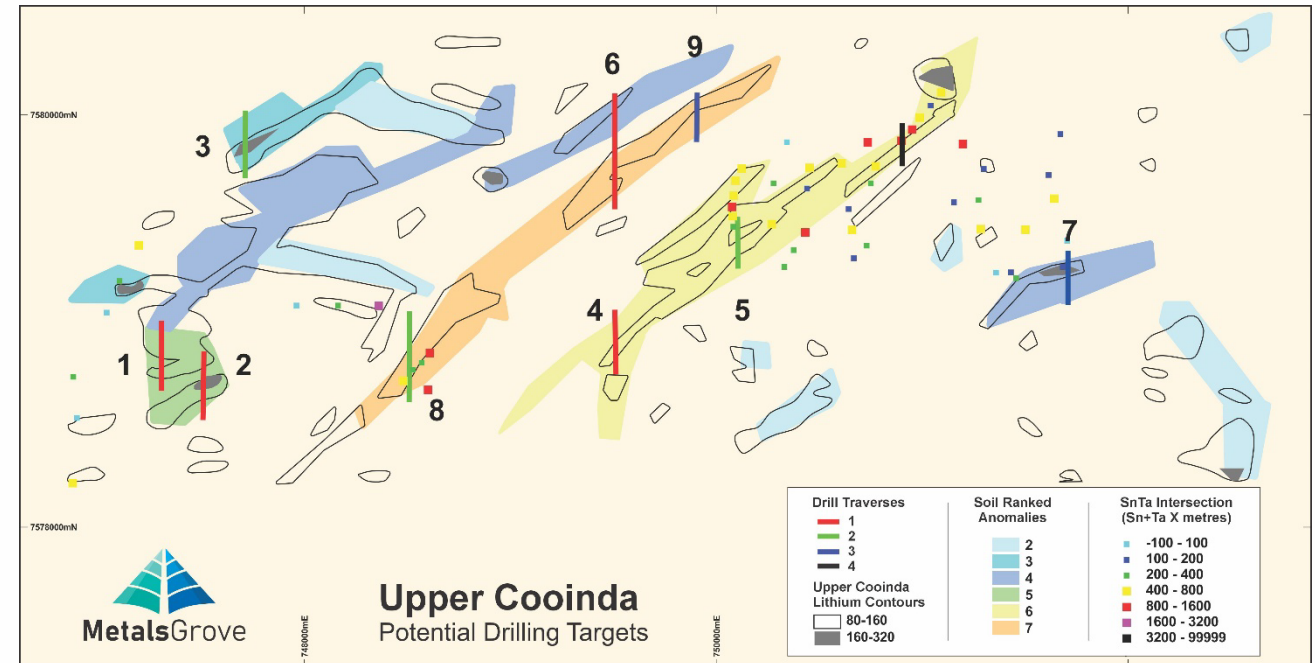
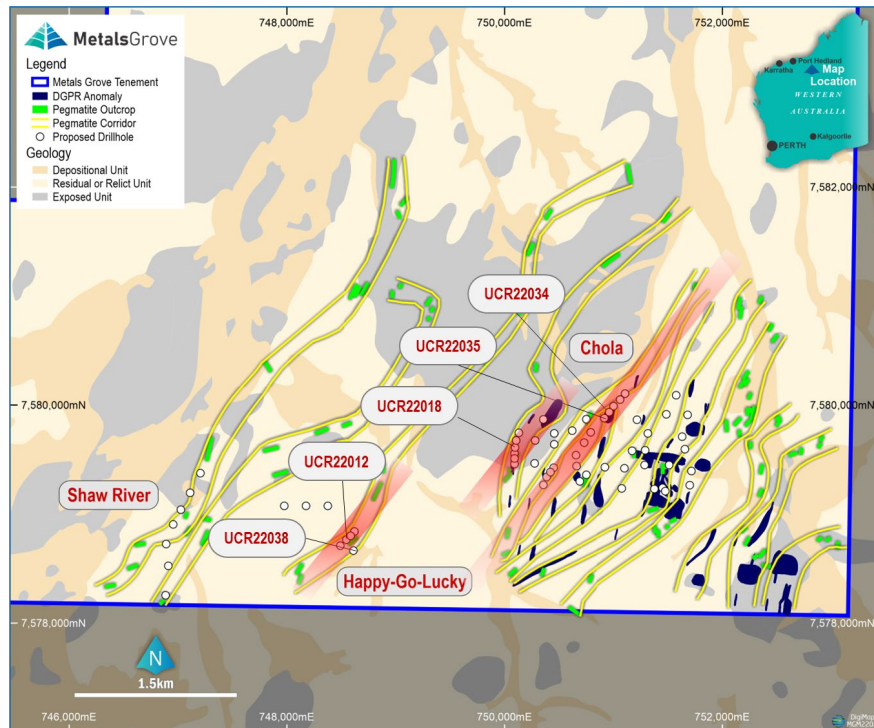
## Lithium, Tin, Tantalum

- High-quality lithium, tin and tantalum project in the highly prospective Pilbara Mineral Field.
- RC drilling intersected multiple stacked spodumene pegmatites incl: **40m wide mineralised zone, up to 0.20%  $\text{Li}_2\text{O}$ , 0.6%  $\text{Rb}_2\text{O}$  and 118ppm  $\text{Ta}_2\text{O}_5$ .**
- DGPR surveying has also defined 23 additional potential pegmatite structures conjugate with existing known mineralised pegmatites.





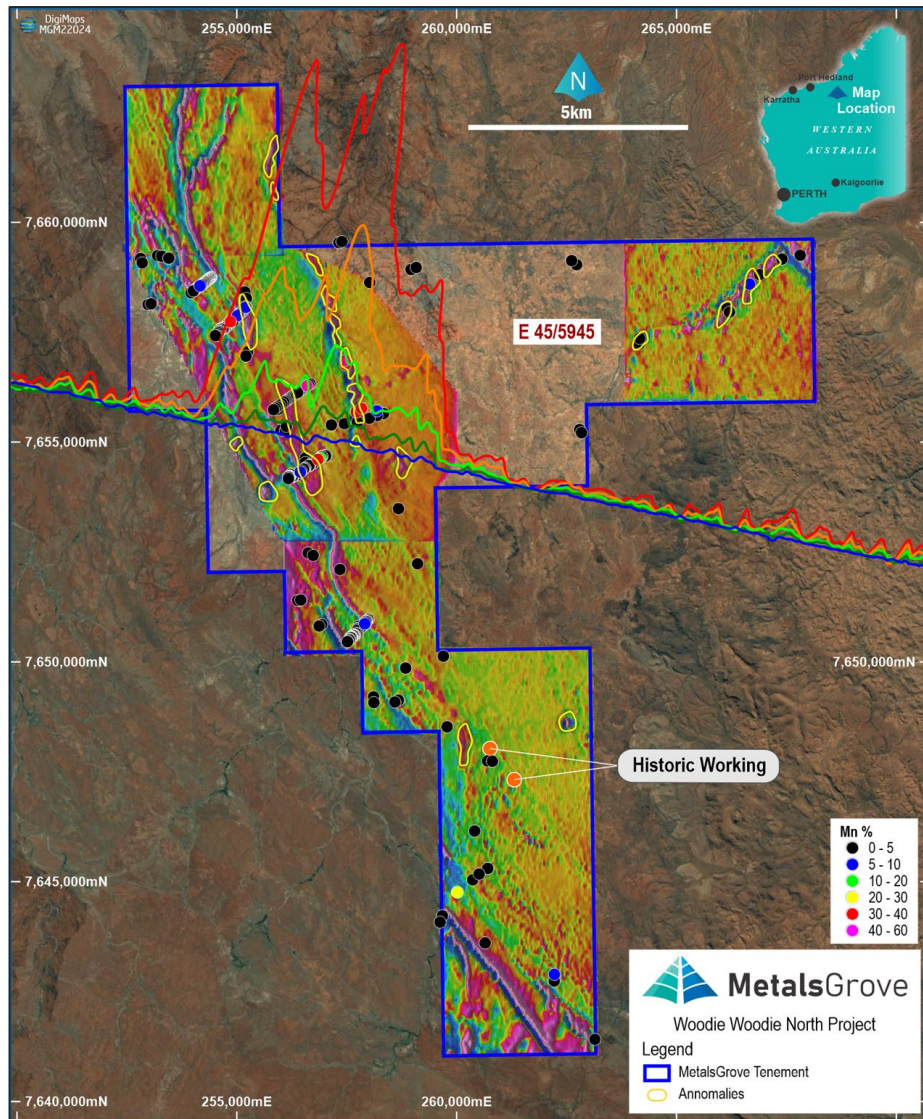
# Upper Coondina - Maiden RC Drilling



- 45 dominating pegmatite formations strike approximately northeast-southwest within a regional corridor extending 8 km.
- Up to 40m-wide mineralised zone, up to 0.20%  $\text{Li}_2\text{O}$ , 0.6%  $\text{Rb}_2\text{O}$  and 118ppm  $\text{Ta}_2\text{O}_5$ .
- UCR22034: 38m @ 0.10%  $\text{Li}_2\text{O}$  from 1m (surface) and 5m @ 20ppm  $\text{Ta}_2\text{O}_5$  from 7m, 3m @ 47ppm  $\text{Ta}_2\text{O}_5$  from 16m, 3m @ 24ppm  $\text{Ta}_2\text{O}_5$  from 24m, 7m @ 685ppm  $\text{Rb}_2\text{O}$  Incl: 2m @ 1140ppm  $\text{Rb}_2\text{O}$  from 24m.
- UCR22035: 13m @ 0.10%  $\text{Li}_2\text{O}$  from 27m, 7m @ 0.10%  $\text{Li}_2\text{O}$  from 50m, 11m @ 16ppm  $\text{Ta}_2\text{O}_5$  from 31m, 17m @ 524ppm  $\text{Rb}_2\text{O}$  from 31m Incl: 1m @ 1285ppm  $\text{Rb}_2\text{O}$  from 40m.
- Recent drilling and soil anomaly identified 4 high priority drill targets on areas of stronger Li, Ta, Sn and Cs anomalism.



# Woodie Woodie North - WA: Advanced Manganese Asset

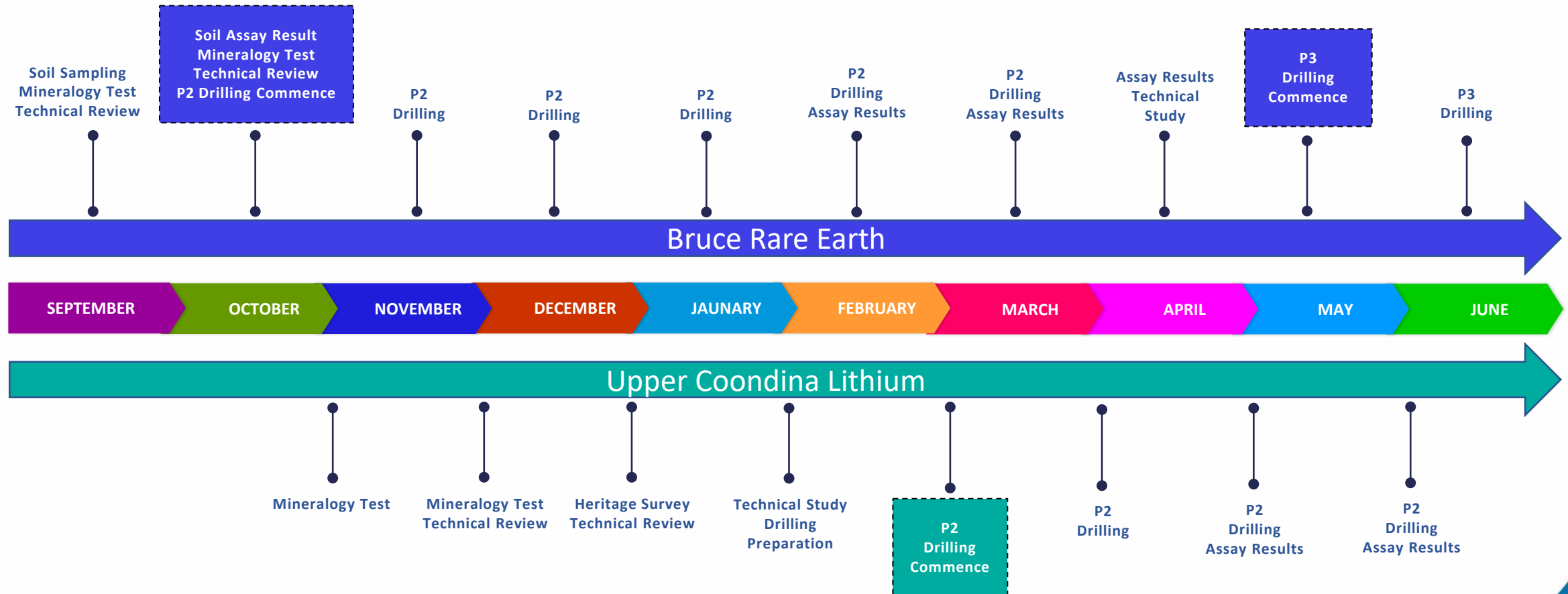


- Well connected to existing mining infrastructure.
- Recently completed airborne magnetic survey reveals an extensive/complex magnetic corridor measuring 8.0 km x 2.0 km.
- 12 drill ready walk-up drilling targets defined.
- Surface sampling has returned several **highly anomalous manganese assays up to 52% Mn.**
- RC drilling planned to test the high priority drilling targets.



## Near-Term Catalysts

- Priority focus on rapidly advancing Bruce Rare Earth.
- Leverage previous exploration/ mining activity to fast-track project development.





# Sustainable Development and ESG

MetalsGrove recognise that our future is intertwined with society, the economy, and the environment, and we owe it to those interests and stakeholders to ensure a lasting impact.

## Economic

Dedicated to responsible economic development through transparent tax contributions, employment, and shared returns.



## Social

Dedicated to contributing actively to any connected community and generating value.



## Environment

Dedicated to accelerated de-carbonisation through cutting-edge production technology, reduced costs, and a smaller environmental footprint.



## Governance

Dedicated to leading standards and frameworks of corporate governance. Our top priority is to commit to the highest levels of rigor in business ethics and governance.





## REGISTERED OFFICE


6/123a Colin Street  
West Perth, WA 6005

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## CONTACT DETAILS

 [www.metalsgrove.com.au](http://www.metalsgrove.com.au)

 [info@metalsgrove.com.au](mailto:info@metalsgrove.com.au)

 T: +61 8 6388 2725

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Third party exploration results referred to in this presentation were first announced in the following ASX releases:

1. TNG Limited's (ASX:TNG) ASX announcement "Mount Peake Resource Drilling Update" dated 8 February 2013 (referred to on slide 13).
2. Verdant Minerals Limited's (ASX:VRM) ASX announcement "Ammaroo Resource Update March 2017" dated 15 March 2017 (referred to on slide 13).
3. Arafura Resources Limited's (ASX:ARU) ASX announcement "Nolans Project Update" dated 11 May 2021 (referred to on slide 13).
4. KGL Resources Limited's (ASX: KGL) ASX announcement "Resource Upgrade at Jervois Copper Project" dated 15 September 2020 (referred to on slide 13).
5. Thor Mining plc's (ASX:THR) ASX announcement: "Mineral Resource Estimates Bonya Tungsten & Copper" (referred to on slides 13).

MetalsGrove is not aware of any new information in respect of the results referenced in the above ASX announcements and that full details with respect to the third-party results referred to in this presentation are included in the applicable ASX announcement.