



12 FEBRUARY 2025

OD6 Metals Ltd

Australian Copper & Rare Earths
Essential for Energy Transition

ASX:OD6

IMPORTANT INFORMATION

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No New Information

The information in this report relating to the Mineral Resource estimate for the Splinter Rock Project is extracted from the Company's ASX announcement dated 29 May 2024. OD6 confirms that it is not aware of any new information or data that materially affects the information included in the original announcement and that all material assumptions and technical parameters underpinning the Mineral Resource estimate continue to apply.

This document contains information extracted from ASX market announcements reported in accordance with the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (**2012 JORC Code**) and available for viewing at <https://www.od6metals.com.au/investors/asx-announcements/>. OD6 confirms that it is not aware of any new information or data that materially affects the information included in any original ASX market announcement.

Forward Looking Statements

Certain statements contained in this presentation, including information as to the future financial or operating performance of OD6 and its projects, are forward looking statements. Such forward looking statements:

- may include, among other things, statements regarding incomplete and uncertain proposals or targets, production and prices, operating costs and results, capital expenditures, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions;
- are necessarily based upon several estimates and assumptions that, while considered reasonable by OD6, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies; and
- involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward-looking statements.

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No representation is made that, in relation to the tenements the subject of this presentation, OD6 has now or will at any time in the future develop further resources or reserves within the meaning of the Australian Code for Reporting of Exploration Results, Mineral resources and Ore Reserves (**The JORC Code**).

Cautionary Statement

In relation to photographs of mine-spoil material, from Gulf Creek no representation as to the composition of the rocks is presented here. Laboratory assay results are required to determine the grade of mineralisation and the Company will update the market when check sampling and assay results are received and compiled. The Competent Person advises that the photographs contained in this Presentation are not necessarily representative of the geology exploited by historic mines at Gulf Creek and are not to be construed as being representative of potentially economic mineralisation.

OD6 METALS

OD6 Metals is a Company focused on future facing metals in regions of low-sovereign/geopolitical risk

Cu

HIGH-GRADE COPPER

Gulf Creek Copper in NSW: the high-grade mine that history forgot. Copper – the most critical of critical metals in energy transitions



STRONG NEAR-TERM CATALYSTS

Gulf Creek
High-priority drilling campaign to commence imminently **Splinter Rock**
On going leach studies and R&D

REE

REE LEVERAGE

Splinter Rock, WA : the largest undeveloped clay REE resource in Australia with leachable metallurgy ready for scoping discover on recovery in prices



INNOVATION & ENVIRONMENT

Focused on energy transition metals, contemporary technologies, environment & social governance



EXPERIENCED BOARD & MANAGEMENT

Explorers, miners/metallurgists & corporate governance / finance specialists



TIGHT CAPITAL STRUCTURE AND GOOD SUPPORT

Tight capital structure and strong broker support provides for significant upside potential

Gulf Creek Copper Acquisition

History repeating

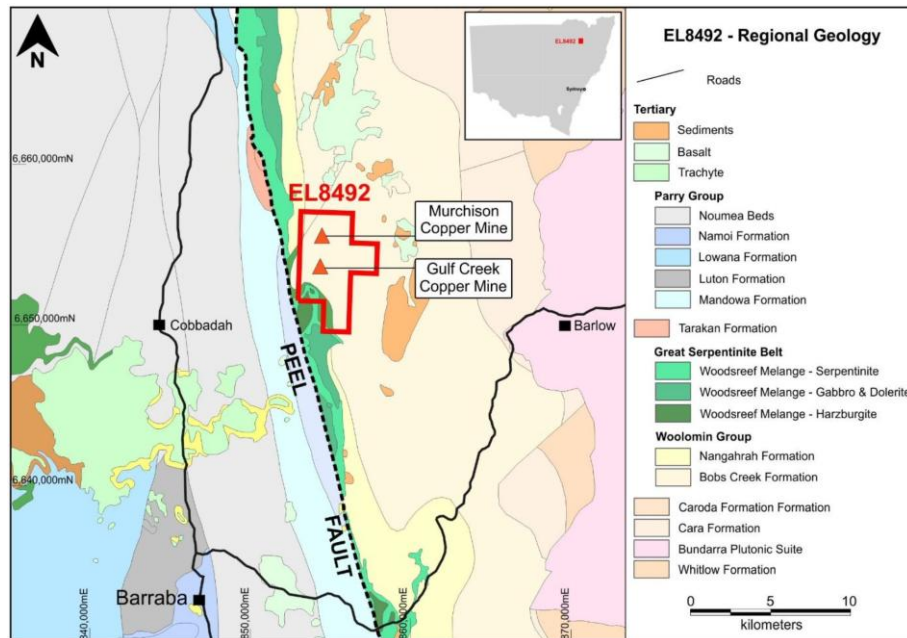
Is one of Australia's highest grade copper
mines set for a 21st century revival?



Key Acquisition Points

Strong near-term catalysts on a historic, underexplored high-grade VMS copper system

- **High Grade Copper** – Zinc VMS style deposit
- One of Australia's highest grade historic copper mines
- Mined over 100 years ago (1896-1912) with **+100m vertical and +300m strike**
- Underexplored with limited modern exploration completed - only 2 holes ever drilled back in the 1960's, and virtually untouched since then
- Mineralisation associated with **magnetite** which shows repeat structures to the north and west
- Potential of **>3km** of untested strike in immediate mine-stratigraphy, **>10km** across the tenement
- Favourable deal metrics and structure
\$200k + 6M shares + \$200k in shares for Phase 2
- Strong near-term catalysts with a **fully permitted drill program** commencing imminently



Located in the New England Orogen Region in NSW, Australia

Peters, J. (2023); & NSW Geological Survey "Seamless Geology"

COPPER MACRO¹ – ECONOMIES AND ELECTRIFICATION

Strong demand-supply fundamentals driving strong run for copper

Copper Demand

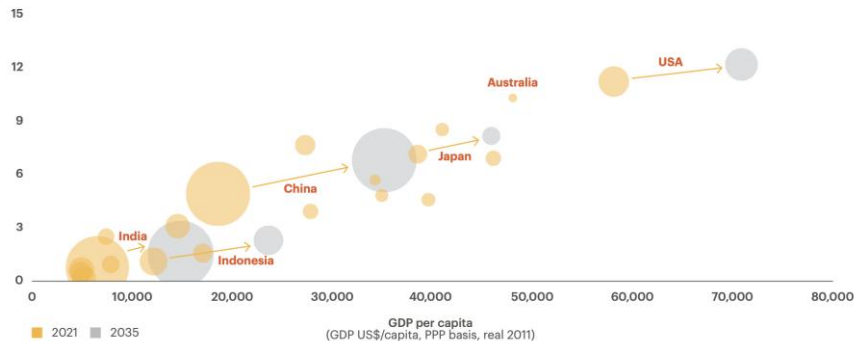
- In modern times, copper has been driven by demand for electricity with global CAGR of 3% over the last 75 yrs
- As economies with large populations (eg. China, India) modernise, copper demand grows
- New age technologies (eg. electric vehicles, data centres) require large volumes of copper

Copper Supply

- The world's currently producing mines can only supply ~50% of the demand over the next decade
- Current mines face depleted grades
- Copper exploration is not delivering substantial new deposits

Electrification: a 20th century megatrend set to continue

(Electricity consumption, MWh per capita)



Source: World Bank, UN, BHP analysis.
Note: Bubble size represents population size

Today's mines are getting older...

(Age of mines of operating in 2023, copper production)

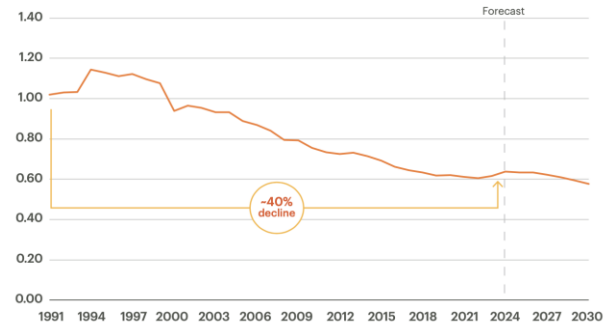


■ 0-10 years ■ 11-20 years
■ 21-30 years ■ 31-40 years
■ 41-50 years ■ 50+ years

Source: S&P Global Market Intelligence.
Note: Only includes mines >15 ktpa copper.

...and lower grade

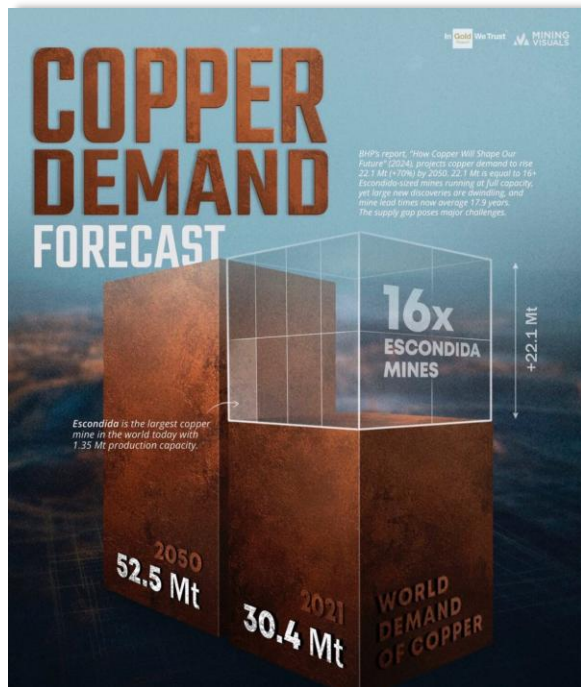
(Mined head grade, % Copper)



Source: S&P Global Market Intelligence (1991-1999), Wood Mackenzie (2000-2030).

GLOBAL COPPER INVESTMENT AND M&A HEATING UP

Majors positioning for copper bull run as electrification & AI turbocharges demand



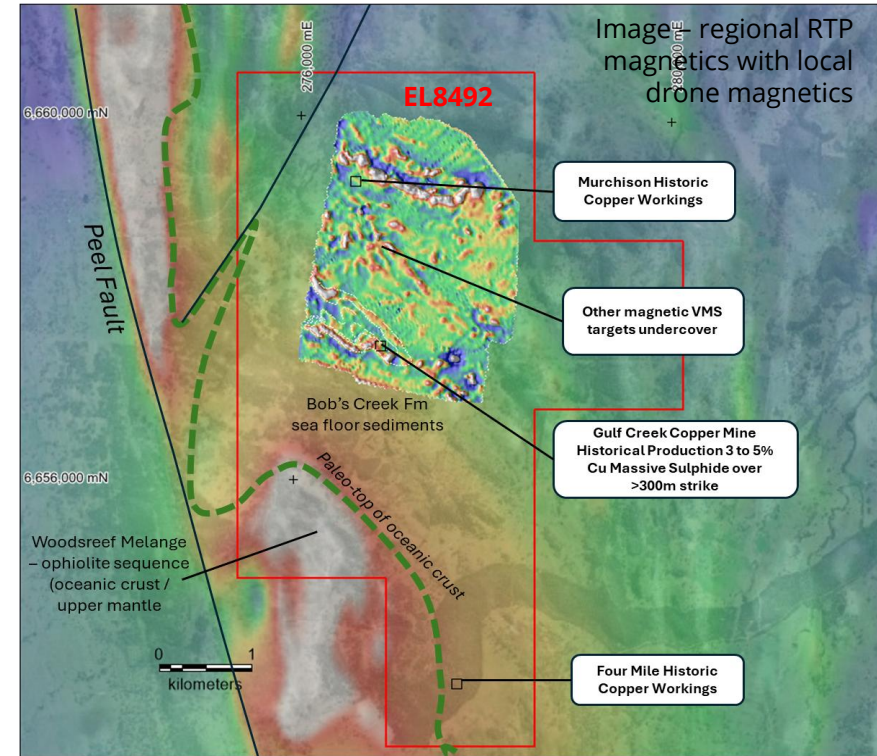
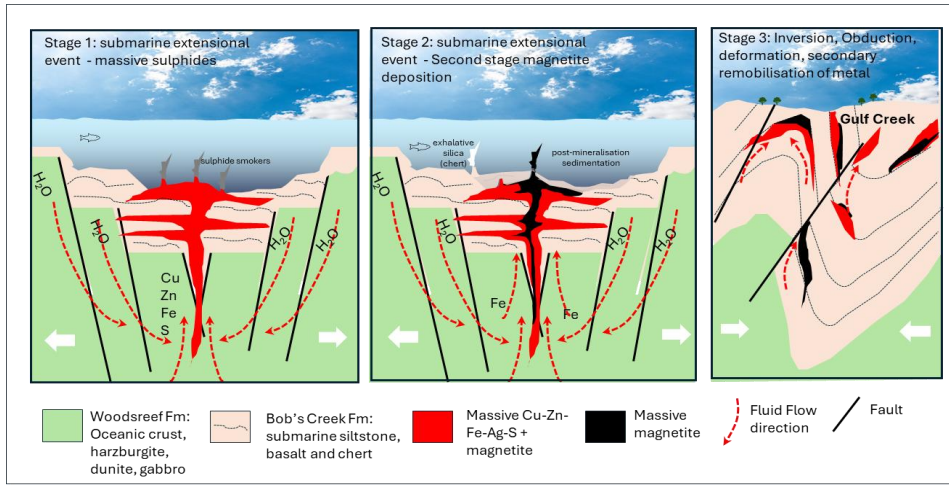
COPPER NEWS

- Teck earmarks up to \$3.9 billion to boost copper output
- BHP copper output jumps as electrification era picks up pace
- Rio-Glencore merger could create a copper powerhouse
- Lure of Anglo's copper mines could test BHP's spending resolve

Gulf Creek – Regional Setting for Classic VMS

VMS systems are known to have multiple, high-grade repeat structures

- Classic setting for Besshi Style Volcanogenic Massive Sulphide Deposit (VMS)¹
- Silurian-Devonian age geologically **comparable to Woodlawn Deposit (>20Mt @ 1.6% Cu, 9.1% Zn endowment)**² owned by Develop Global Ltd

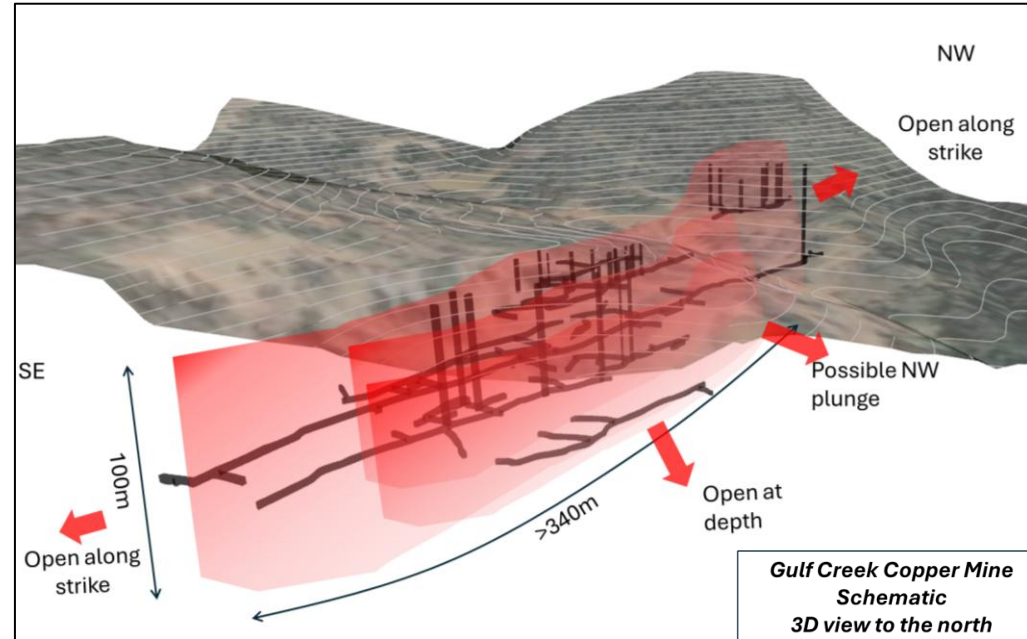


1. Association with magnetite occurring in VMS – refer: Yildirim, Y *et al.* (2016), Watanabe *et al.* (1993)
2. Total endowment past production and resources compiled from <https://portergeo.com.au/database/mineinfo.asp?mineid=mn295>

High-Grade Copper Production History

Virtually untouched since 1912 with significant potential for untested extensional and repeat lodes¹

- At Gulf Creek the copper occurs within three parallel sulphide lenses:
 - Cornish Lode averaged **6 - 6.5% Cu**
 - Middle Lode averaged **3 – 3.5% Cu**
 - Big Lode averaged **2 – 2.5% Cu**
- Mine samples show visible mineralisation in the areas surrounding the main lodes
- Zinc assays show similar copper values
- No drilling has occurred based on modern day exploration techniques



As disclosed in publications by the Geological Survey of New South Wales such as:

Brown, R. (1987); Brown, R.E. *et al*, (1992)

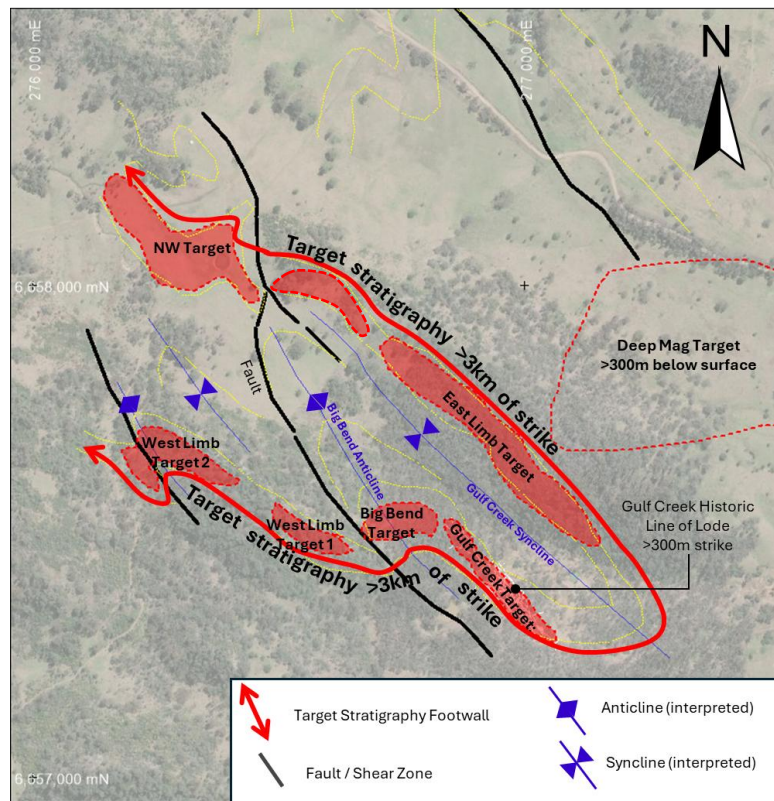
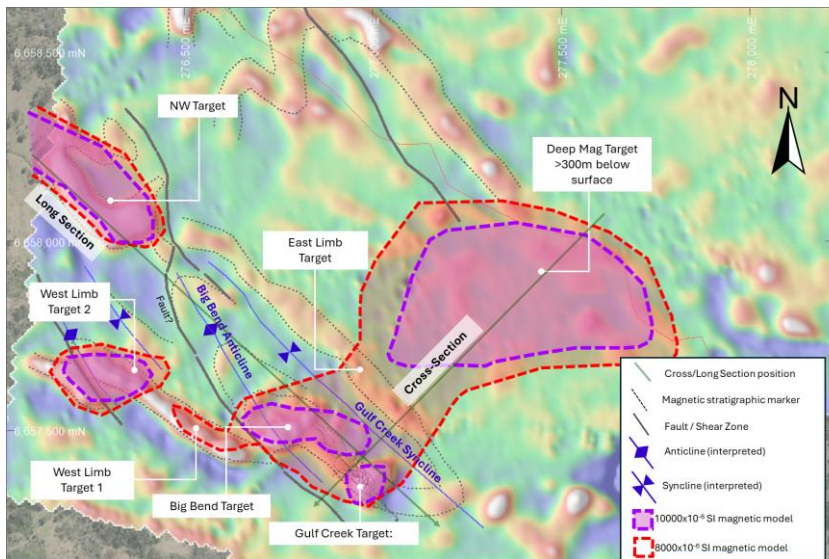
NSW Geol. Survey (1901, 1904-1982);

Historic workings reconstructed from plans and sections digitised from NSW Geol Survey, 1901, 1904-1982, Assorted historic plans and maps.

Gulf Creek – Geophysics Highlights Scale Potential

Strong potential for repeat high-grade VMS structures with multiple untested structures identified

- Geophysical modelling has identified multiple, high priority and untested targets
- Extended magnetic survey indicates a series of NW plunging folds providing >3km of local strike length of **target magnetite-VMS target horizon** within the Gulf Creek Syncline

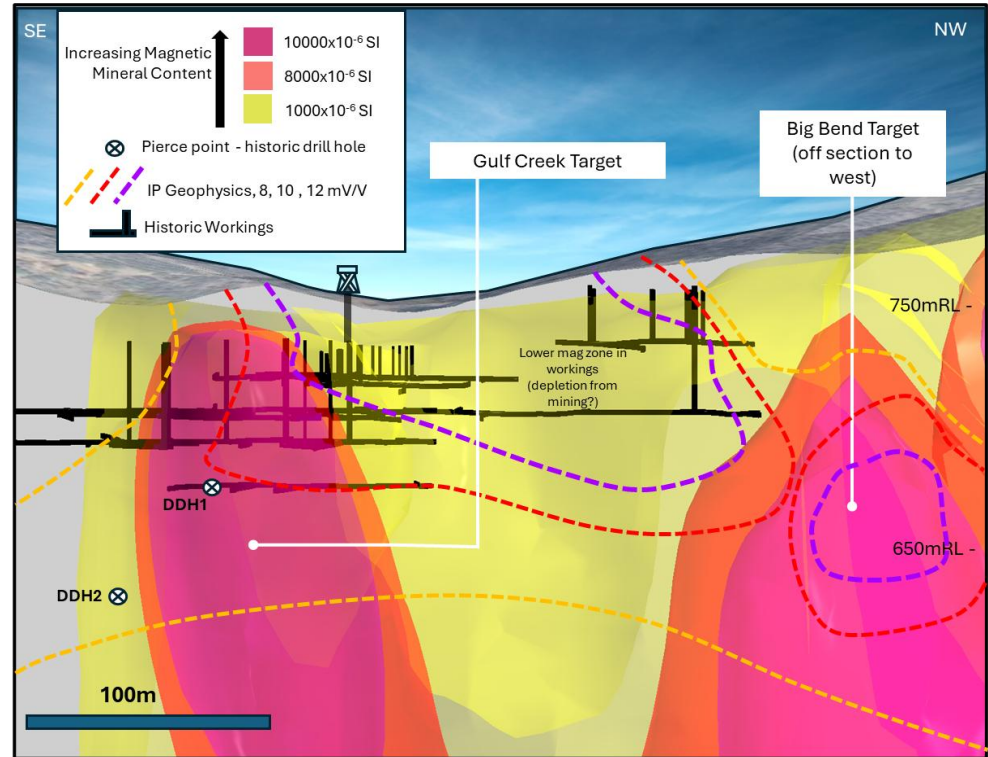


1. Refer ASX release 14/11/2024 – New Potential High-grade VMS Copper Targets at Gulf Creek

The Big Bend Target – Magnetism & IP Chargeability

Compelling magnetic target located within close proximity to the historic Gulf Creek mine

- 3D Inversion Modelling – **strong relationship with massive magnetite-sulphide mineralization**
- **Big Bend Target:**
 - Very strong magnetism – comparable of **massive magnetite-sulphide**
 - Anticlinal position – classic VMS
 - **Strong IP Chargeability** (sulphide indicator)
 - Modelled from **50 to >550m**
 - **No sampling ever** – surface, underground or drilling



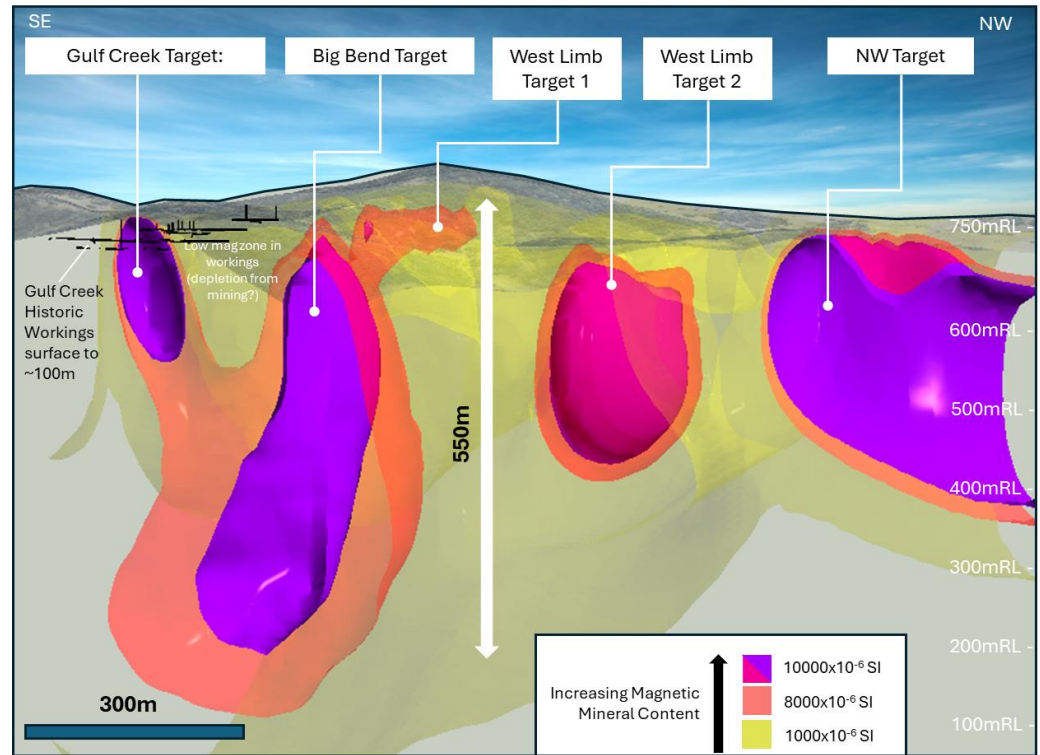
1. Refer ASX release 14/11/2024 – New Potential High-grade VMS Copper Targets at Gulf Creek

Long section¹ view NE of historical workings showing I.P Survey chargeability anomalies (drill targets)

Gulf Creek to West Limb to North-West

Multiple extensional and repeat magnetic targets

- West Limb Targets – **strong magnetism in similar fold structures**
- **Northwest Target**
 - **Strongest** magnetic target in region
 - 400x100m footprint – open to NW
 - Modelling extends from near-surface to > 400m
 - In a small topographic low – **no outcrop** (missed by the old-timers)



Long section¹ zoomed out

1. Refer ASX release 14/11/2024 – New Potential High-grade VMS Copper Targets at Gulf Creek

Gulf Creek – High Grade Copper

Multiple mineralisation styles – shows a long-lived system

Massive Sulphide – High in Cu & Zn, low in environmental problematic elements Cd, As, Pb



Weathered banded massive sulphide from historic workings



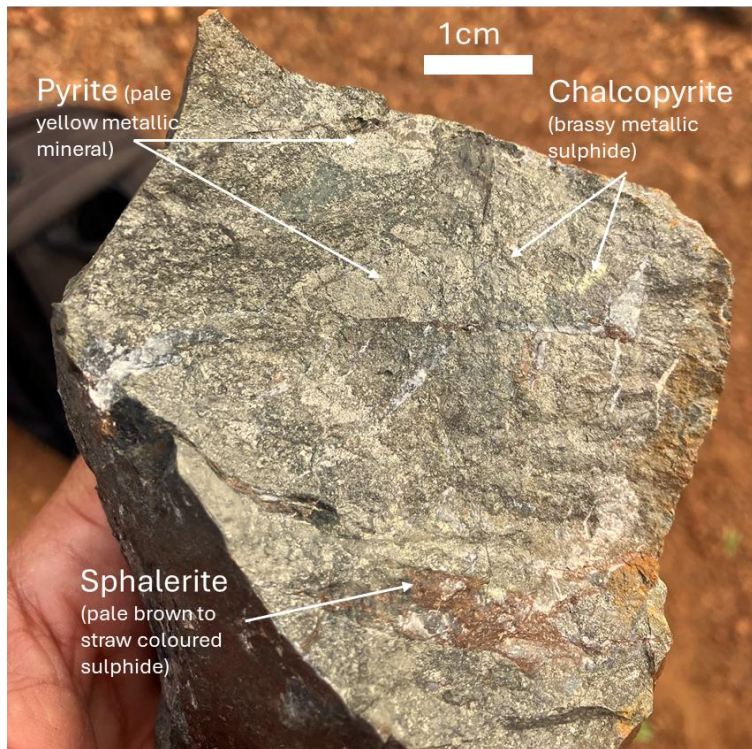
Up To 11.60% Cu, 0.27g/t Au, 29.8g/t Ag

1. Refer ASX announcement 16/01/2025 – Rock Chips up to 12.35% Copper and 1.04g/t Gold from Gulf Creek

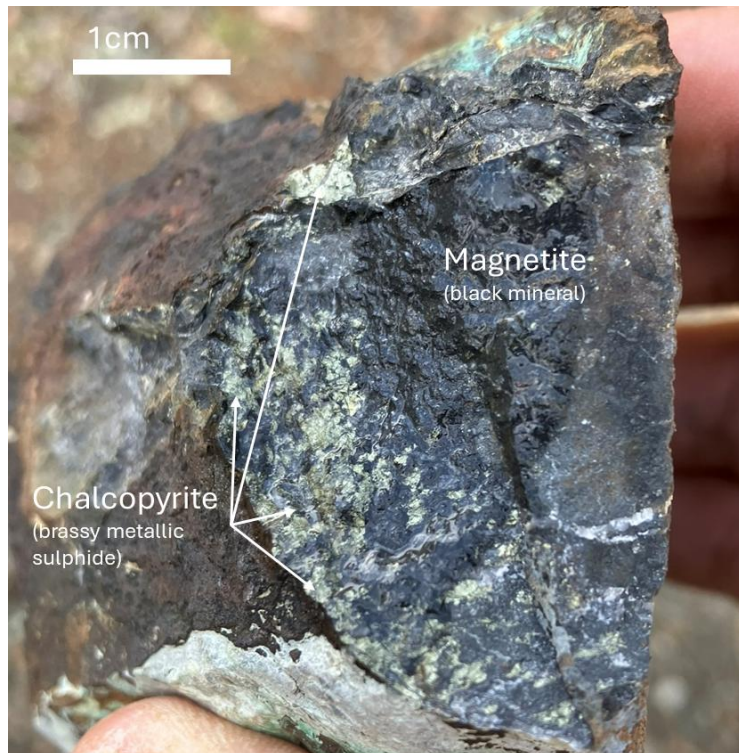
Gulf Creek – Two High-Grade Mineralisation Styles

Multiple mineralisation styles – shows a long-lived system

Massive Sulphide



Massive Magnetite-Sulphide



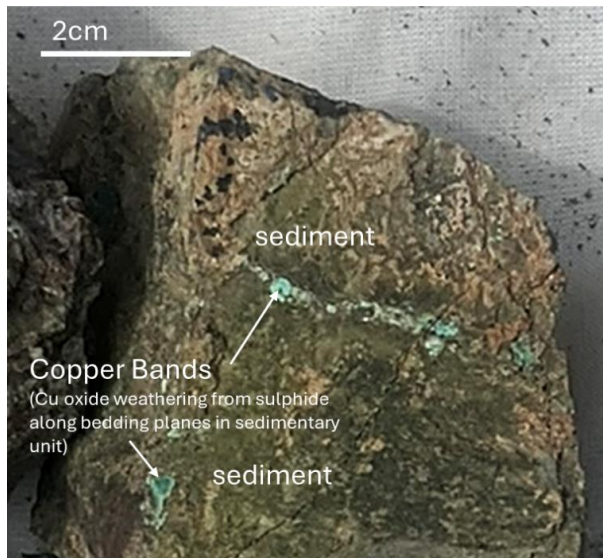
Magnet suspended from magnetic rock sample from Gulf Creek. Refer also slide 2 on cautionary statement.

1. Refer ASX announcement 6/11/2024 – High Grade Copper Assays Confirms Potential at Gulf Creek

Gulf Creek – Country rock has mineralisation too

Mineralised halo surrounding high-grade VMS lodes provides significant bulk tonnage potential

Sediments with copper veins



VMS Exhalative Chert



Copper Gossans



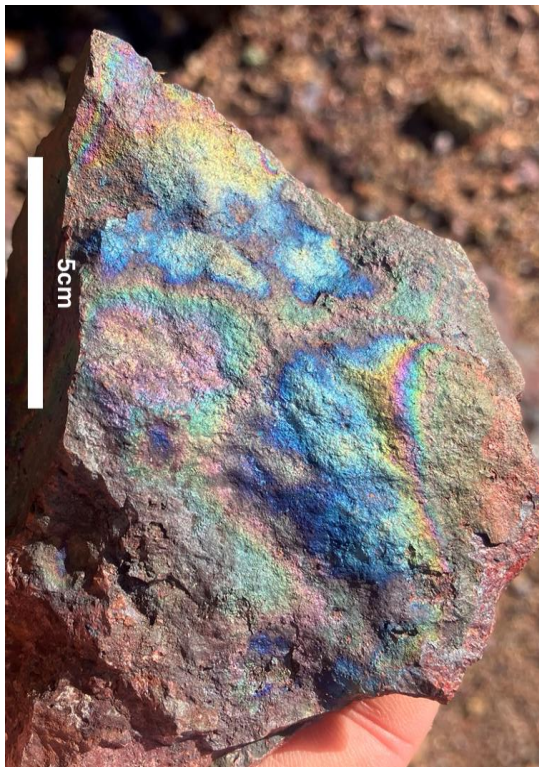
Up to 2.1% Cu in surrounding country rock

1. Refer ASX announcement 6/11/2024 – High Grade Copper Assays Confirms Potential at Gulf Creek
2. Refer ASX announcement 16/01/2025 – Rock Chips up to 12.35% Copper and 1.04g/t Gold from Gulf Creek

Regional Extensional Exploration Upside

Multiple untested comparable Gulf Creek drill targets

- **Historic Murchison Mine** to the north – also associated with magnetic stratigraphy and reports of >4% Cu¹
- Other significant folded magnetic stratigraphy **completely untested with potentially over >10km of magnetic VMS target horizon stratigraphy**
- **This remarkable project has had no modern concerted regional soil geochemistry, electromagnetics and drilling**



Bornite from Murchison workings

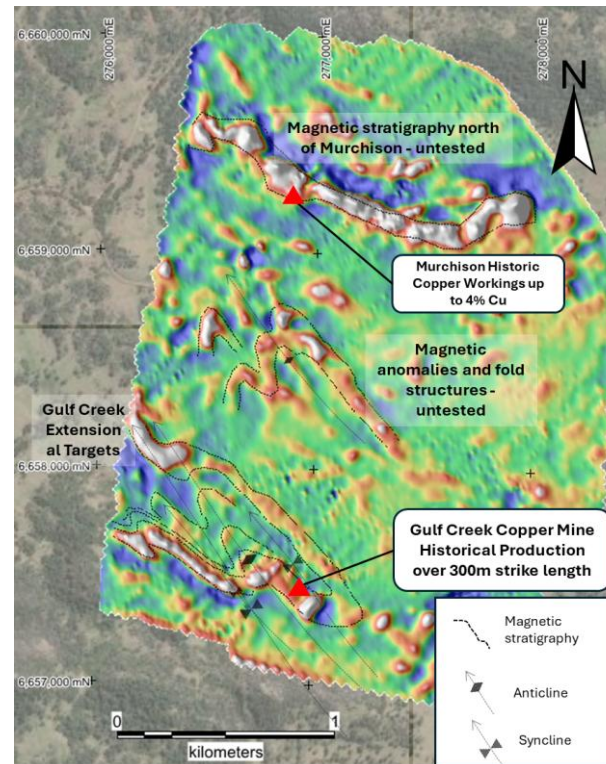


Image – drone magnetics 1VD.2

1. Comet Resources Press Release (13/01/2021)
2. Rampe., M. (2022)
3. Refer ASX announcement 16/01/2025 – Rock Chips up to 12.35% Copper and 1.04g/t Gold from Gulf Creek

Excellent Proximity to Infrastructure

Supporting project development

- Tier 1 Location
- Ideally located ~400km by road to the Port of Newcastle
- Situated between two NSW renewable energy zones (REZ) with existing solar and hydro power infrastructure within close proximity
- 83km from the nearest gas pipeline and rail lines

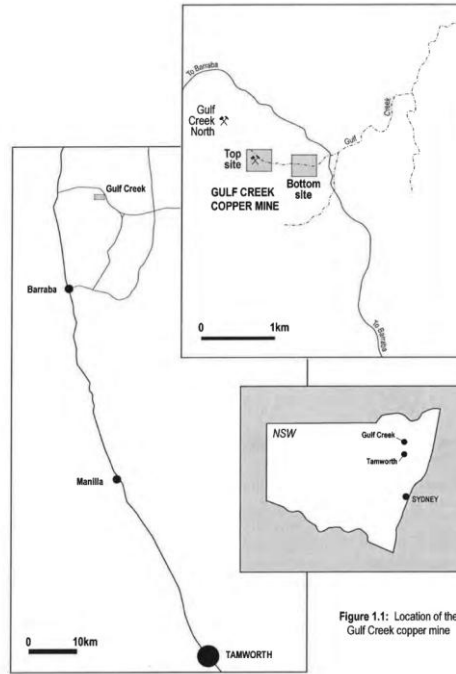
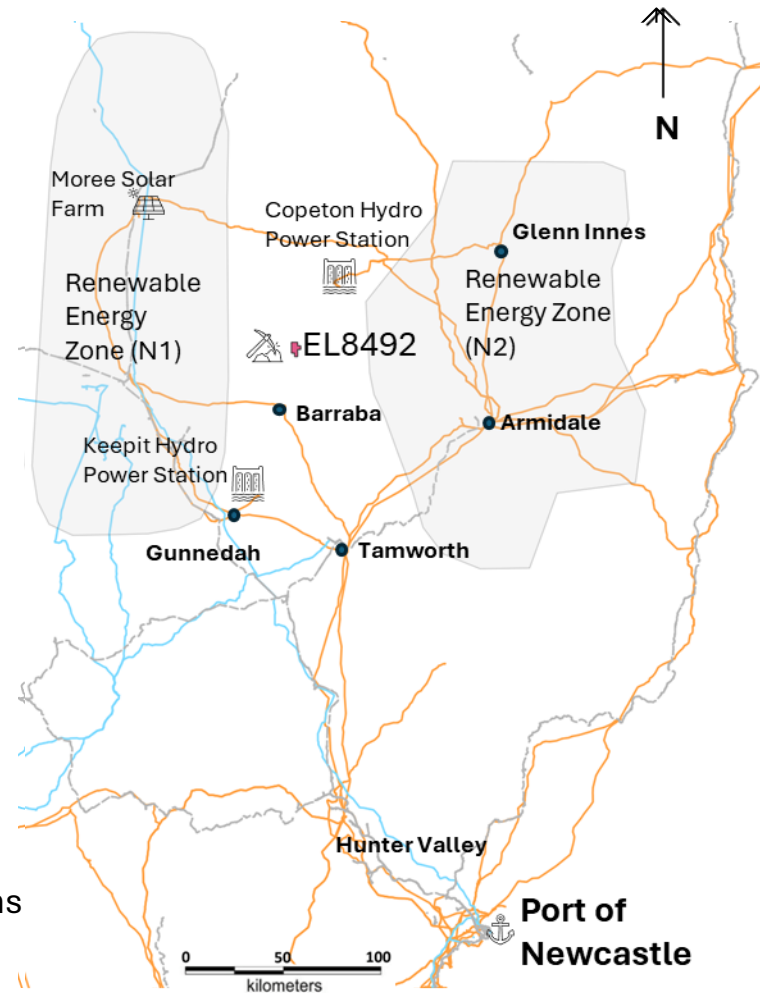


Figure 1.1: Location of the Gulf Creek copper mine

- Electrical Transmissions
- Gas Pipeline
- Railway Track



Permitted Phase 1 Exploration Program

OD6 set to “hit the ground running” with strong near-term catalysts

Work Plan	CYQ4'24	CYQ1'25	CYQ2'25	CYQ3'25	CYQ4'25
FY25 to FY26 PROGRAM					

Gulf Creek Project Acquisition
(30 October 2024) ✓

High Grade Cu Assays Confirmed
(6 November 2024) ✓

Geophys Modelling identifies Multiple VMS targets
(14 November 2024) ✓

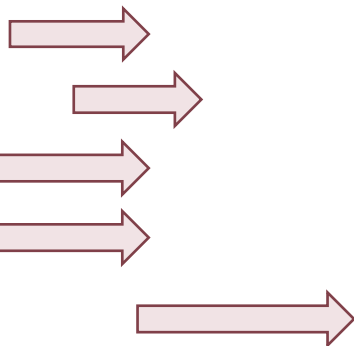
Gulf Creek Phase 1 Drill Program
~2,000m diamond drill program

Down Hole EM Surveys
Target repeat and parallel lodes

New surface Geophysics
Regional target definition

Geochemistry
Regional target definition

Phase 2 Drill Program
High-priority follow up and extensional targets



- ✓ Reprocessing and reinterpretation of IP and Drone Mag with latest modeling techniques Completed
- ✓ All flora, fauna land access and native title permits in place to commence exploration activities immediately
- ✓ New EM and geochemical survey across Gulf Creek Syncline Target Zones
- ✓ ~2,000m Diamond Phase 1 drill program is planned, permitted and drill-ready at Gulf Creek
- ✓ Downhole EM to find repeat and parallel lodes
- ✓ Phase 2 Drill exploration program to test follow up and extensional targets

INVESTMENT HIGHLIGHTS

Gulf Creek has boundless potential to host a significant, high-grade Cu-Zn system & is open for business



HIGH GRADE HISTORICAL COPPER-ZINC PRODUCTION

Production grades of >3% Cu with grades of up to 12% mined



LITTLE TO NO EXPLORATION IN OVER 100 YEARS

Only two (ineffective) drill holes attempted. Minimal exploration since mining ceased in 1912



MAGNETICS and IP ANOMALIES NEAR MINE WORKINGS

Copper associated with Magnetite provides pathfinder magnetic feature targeting with >10km of untested horizon stratigraphy



FULLY PERMITTED AND DRILL-READY

All flora, fauna and native title permits received for initial high-priority drill programs



LOW-CASH ACQUISITION TERMS WITH MINIMAL DILUTION

Favourable acquisition terms with no private royalty

Splinter Rock Rare Earth Minerals

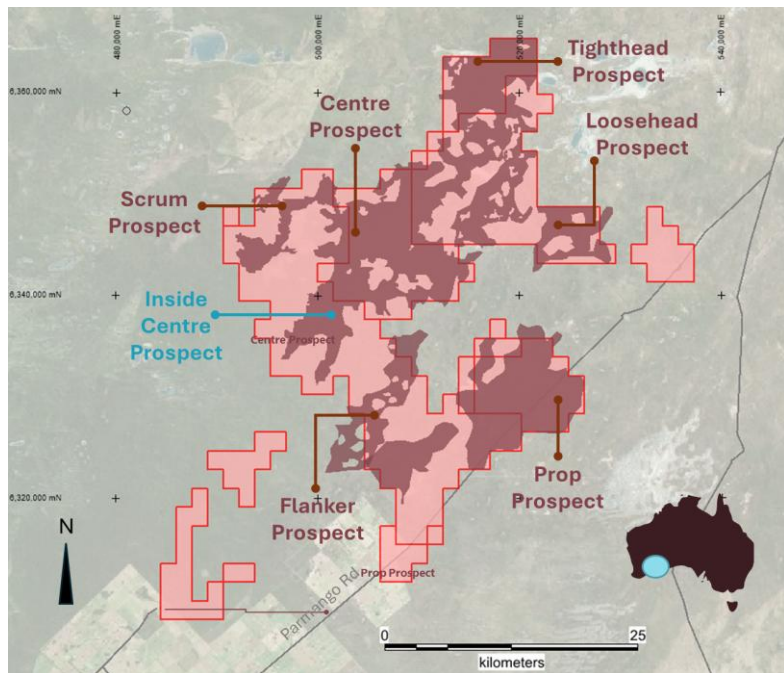
An advanced rare earths project of grade and scale with favourable metallurgical qualities



MRE of 682Mt @ 1,338ppm TREO – Refer slide 26

Globally Significant Clay Hosted Rare Earth Project

Gulf Creek acquisition to compliment the Splinter Rock Project whilst rare earth prices recover



Splinter Rock Highlights

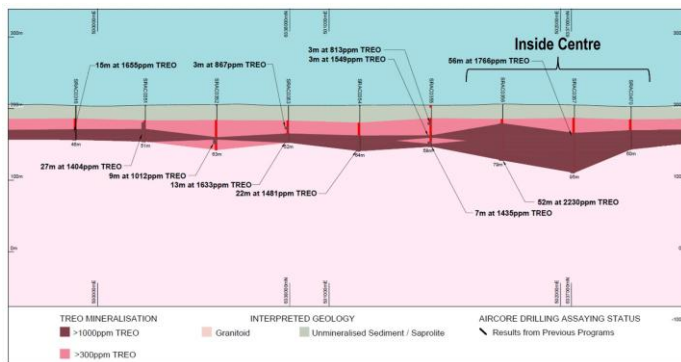
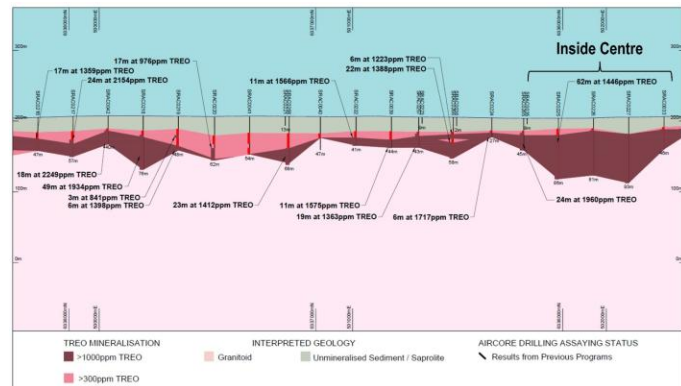
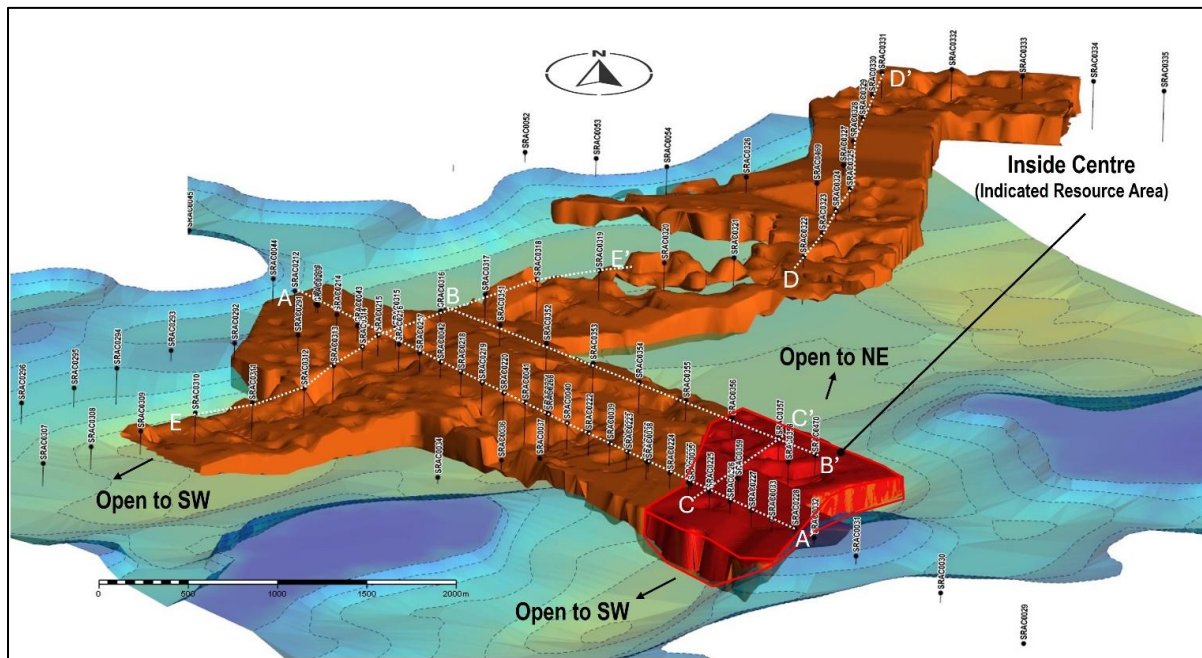
- Located in one of the world's great mining jurisdictions proximate to key infrastructure
- **682Mt at 1,338 ppm TREO** (at a 1,000ppm cut-off grade) for **910 kt contained TREO**¹
- High-value MagREO represents an average of ~23% of TREO grade **for 205 kt contained MagREO**
- The MRE positions Splinter Rock as the **largest & highest grade** Australian clay-hosted Rare Earth Deposit
- **Inside Centre Prospect 119Mt at 1,632ppm TREO (Indicated)**
- **Recent Heap Leach Recoveries of up to 80% at Inside Centre**²
- Heap Leach has the potential to remove several expensive processing steps, which would reduce capital and operating costs significantly
- Located away from farmland with no private royalties

1. Refer to Slide 26 for Resource Estimate Breakdown

2. Recoveries only reflect initial rare earth leaching, with further losses expected in precipitation, impurity removal, purification and drying

INSIDE CENTRE - A HIGH GRADE STAND OUT

INDICATED MRE OF 119Mt at 1,632ppm TREO (at 1,000ppm TREO cutoff grade)



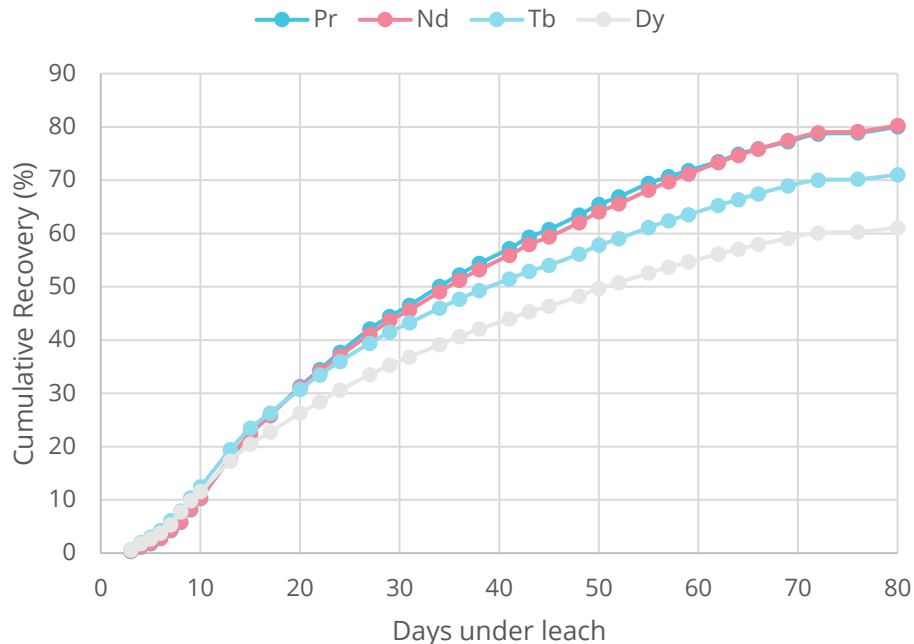
Inside Centre to be the main focus of future works

Refer to ASX Release 29 May 2024 – Mineral Resource Estimate Doubles at Splinter Rock.

OUTSTANDING METALLURGICAL RESULTS

RARE EARTHS RECOVERED WITH SIMPLE LEACHING

- Very high metallurgical recoveries achieved using **simple acidic heap leach at Inside Centre**
- **79% Magnetic Rare Earth Elements recovery** achieved at 25g/l HCl
- Average 37 kg HCl/t ore consumption
- Neodymium (Nd), Praseodymium (Pr), Terbium (Tb) and Dysprosium (Dy) have very high recoveries
- The simpler Heap Leach process has the potential to remove several capital intensive processing steps, which would simplify the flowsheet and reduce capital and operating costs
- Phase 4 test work with ANSTO ongoing



Recoveries only reflect initial rare earth leaching, with further losses expected in precipitation, impurity removal, purification and drying.
See OD6 ASX announcements dated 16 October 2024

CORPORATE SNAPSHOT

HIGH CALIBRE LEADERSHIP TEAM AND TIGHT CAPITAL STRUCTURE

Capital Structure

ASX: OD6

Price per share ¹	A\$0.046
Total number of shares on issue ¹	134.69M
Performance rights and options ¹	46.05M
Market capitalisation (undiluted) ¹	A\$6.20M
Cash ²	A\$1.75M
Debt ²	Nil
Enterprise value	A\$4.45M

Share Price 12 Month History

A\$/share



1. As at 7 February 2025

2. As at 31 December 2025. Refer to ASX announcement "Quarterly Activities and Cashflow Report"



Mr Brett Hazelden

MANAGING DIRECTOR



Dr Darren Holden

NON-EXECUTIVE CHAIR & Geological Advisor



Mr Piers Lewis

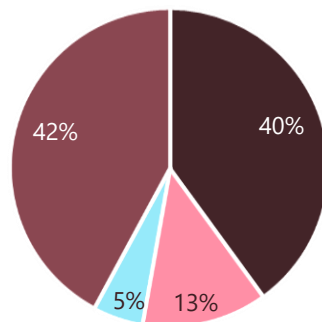
NON-EXECUTIVE DIRECTOR



Dr Mitch Loan

NON-EXECUTIVE DIRECTOR

Register Detail



■ Founders (exc. Directors and Management)

■ Directors and Management

■ Institutions

■ Retail / Other

CONTACT US

REGISTERED OFFICE

c/o LCP Group
Level 1, 50 Kings Park Road
West Perth WA 6005
Phone: +61 8 6189 8515
Email: info@od6metals.com.au

SHARE REGISTRY

Computershare Investor Services
Level 11, 172 St Georges Tce
Perth WA 6000

www.od6metals.com.au

ASX:OD6

LUCAS ROBINSON

Investor Relations
lucas@corporatetestorytime.com
+61 408 228 889



SPLINTER ROCK MINERAL RESOURCE ESTIMATE

AT 1,000ppm CUTOFF GRADE



AUSTRALIA'S
HIGHEST
GRADE AND
LARGEST CLAY
HOSTED MRE

Prospect	Category	Tonnes (Mt)	TREO (ppm)	Pr ₆ O ₁₁ (ppm)	Nd ₂ O ₃ (ppm)	Tb ₄ O ₇ (ppm)	Dy ₂ O ₃ (ppm)	MagREO (ppm)	MagREO (% of TREO)
Inside Centre	Indicated	119	1,632	79	271	2	12	366	22.4%
Centre	Inferred	276	1,342	65	228	3	15	310	23.1%
Centre NW	Inferred	21	1,255	65	227	3	14	309	24.6%
Scrum	Inferred	126	1,228	58	210	3	15	285	23.2%
Prop	Inferred	94	1,160	53	190	2	13	259	22.3%
Flanker	Inferred	45	1,250	59	212	3	16	290	23.2%
Total	I+I	682	1,338	64	226	3	14	307	22.9%

TREO (Total Rare Earth Oxide) = La₂O₃ + CeO₂ + Pr₆O₁₁ + Nd₂O₃ + Sm₂O₃ + Eu₂O₃ + Gd₂O₃ + Tb₄O₇ + Dy₂O₃ + Ho₂O₃ + Er₂O₃ + Tm₂O₃ + Yb₂O₃ + Lu₂O₃ + Y₂O₃

MagREO (Magnet Rare Earth Oxide) = Nd₂O₃ + Pr₆O₁₁ + Tb₄O₇ + Dy₂O₃

% Magnet REO = (MagREO / TREO)*100

For full Mineral Resource estimate details refer to OD6 ASX announcement 29 May 2024, "Mineral Resource Estimate Doubles". OD6 is not aware of any new information or data that materially affects the Mineral Resource estimate included in that release. All material assumptions and technical parameters underpinning the Mineral Resource estimate in that release continue to apply and have not materially changed.