



# BLACK CANYON

## ASX Announcement



22 November 2021

ASX:BCA

## Drilling Commences at the Flanagan Bore Manganese Project

### HIGHLIGHTS

- Black Canyons first drill program underway with 8,000m planned
- Drilling designed to extend the recently announced LR1 Inferred Mineral Resource Estimate of 15Mt @ 11.3% Mn
- The program will also target outcropping manganese enriched-shales identified around a major fold structure, with at least 10km of strike potential that may significantly expand the mineralisation footprint
- Drilling to confirm grade and thickness potential across a number of targets with previous significant drill results including:
  - 37m @ 12.8% Mn from 3m (LRRC08);
  - 33m @ 11.3% Mn from surface (LRRC16); and
  - 28m @ 11.9% Mn from 4m (LRRC03)

**Black Canyon Executive Director Brendan Cummins said:** “Since our first field trip to Flanagan Bore we have been very excited about the potential for the project to deliver a large-scale discovery. With the commencement of drilling we anticipate the planned drill holes will replicate and extend the previously well mineralised and thick intervals of manganese enriched-shale at LR1 (Figure 1) and at multiple outcropping targets across the tenement. The drill programs will be instrumental in advancing Mineral Resource upgrades and the commencement of Scoping Studies in early 2022.”

Australian Manganese Explorer (ASX: BCA) is pleased to announce drilling activities have commenced at Flanagan Bore, located in the Pilbara region of Western Australia. A diamond drill core rig will provide core samples for metallurgical test work and a reverse circulation (RC) rig will be testing for extensions to the LR1 mineral resource. Additional targets to be RC drill tested include FB3, FB2 and FB5/FB6. All of the targets are characterised by widespread outcropping manganese enriched shale units associated with a multi-kilometre scale shallow plunging fold structure (Figure 2).

Located 120km north-east of Newman, Black Canyon’s Flanagan Bore tenement is part of the Company’s Carawine Project and is subject to a farm-in and joint venture agreement (the Agreement) with Carawine

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Resources Ltd (ASX:CWX) whereby Black Canyon can earn up to a 75% interest in the Carawine Project tenements. At the completion of the planned drilling programs the Company expects it will satisfy the Minimum Obligation of the Agreement that comprises spending \$750,000 and drilling a minimum of 2000m on the tenement within the first 12 months. After the Minimum Obligation is satisfied, Black Canyon will then look to move towards the next milestone of earning a 51% interest in the Carawine JV tenements.

The manganese-enriched shales identified across several prospect areas are the subject of this drill program (Figures 2 to 5) and include:

- **LR1 Mineral Resource** - 900m x 200m zone that has been previously drill tested and an Inferred Mineral Resource has been estimated comprising 15Mt @ 11.3% Mn<sup>1</sup>. The prospect remains open to the south and east. Recently completed drill hole LRDD01 (twin drill hole to previous hole LRRC08) located at LR1 (refer to Figure 1) shows a combination of discrete thin and thickly banded manganese enriched horizons interbedded with soft clays and shales which should facilitate processing using beneficiation and ore sorting methods;
- **FB2 Prospect** - Comprises folded manganese shales with thicker more prominent bands of manganese-enriched shale forming topographic rises. Data from eight previous drillholes located across a 1000m x 900m footprint at the FB1 prospect confirm grade and thickness potential<sup>2</sup>;
- **FB3/FB4 Prospects** - Widespread areas of outcropping and sub-cropping manganese-enriched shale exposed over a strike of 400m and mapped down dip a further 650m. There is no evidence of previous drilling in the area;
- **FB5/FB6 Prospects** - Outcropping and sub-cropping manganese-enriched shale exposed over a strike of 5km, dipping shallowly to the northwest. This prospect has never been drilled;



**Figure 1.** Recently drilled Black Canyon diamond core hole DDLR01 that is twinning historic RC hole LRRC08 that intersected 37m @ 12.8% Mn and 10.5% Fe from 3m<sup>3</sup>. Manganese bands are dark grey in colour. Note that the assays quoted are from the equivalent interval in historic drill hole LRRC08 and assays for DDLR01 are pending.

<sup>1</sup> ASX Announcement 5 October 2021 - Maiden Manganese Resource for LR1 Prospect at Flanagan Bore

<sup>2</sup> ASX Announcement 10 June 2021 - Widespread Manganese Confirmed at Flanagan Bore Prospect

<sup>3</sup> ASX Announcement 17 May 2021 – Exploration to commence at Pilbara manganese projects



A Program of Work (POW) has been approved for up to 500 RC and diamond drill holes across the Flanagan Bore tenement. Heritage Surveys were completed in late October for which Black Canyon thank the Karlka Nyiyaparli Traditional Owners and those who attended the surveys.

The Company is planning to drill approximately 7500m of RC and 500m of PQ diamond core across the various prospects. The assays for the RC drill results will be reported as they are received over the coming months. The diamond drill core will be used for a beneficiation metallurgical test work program that will feed into a Scoping Study in early 2022.

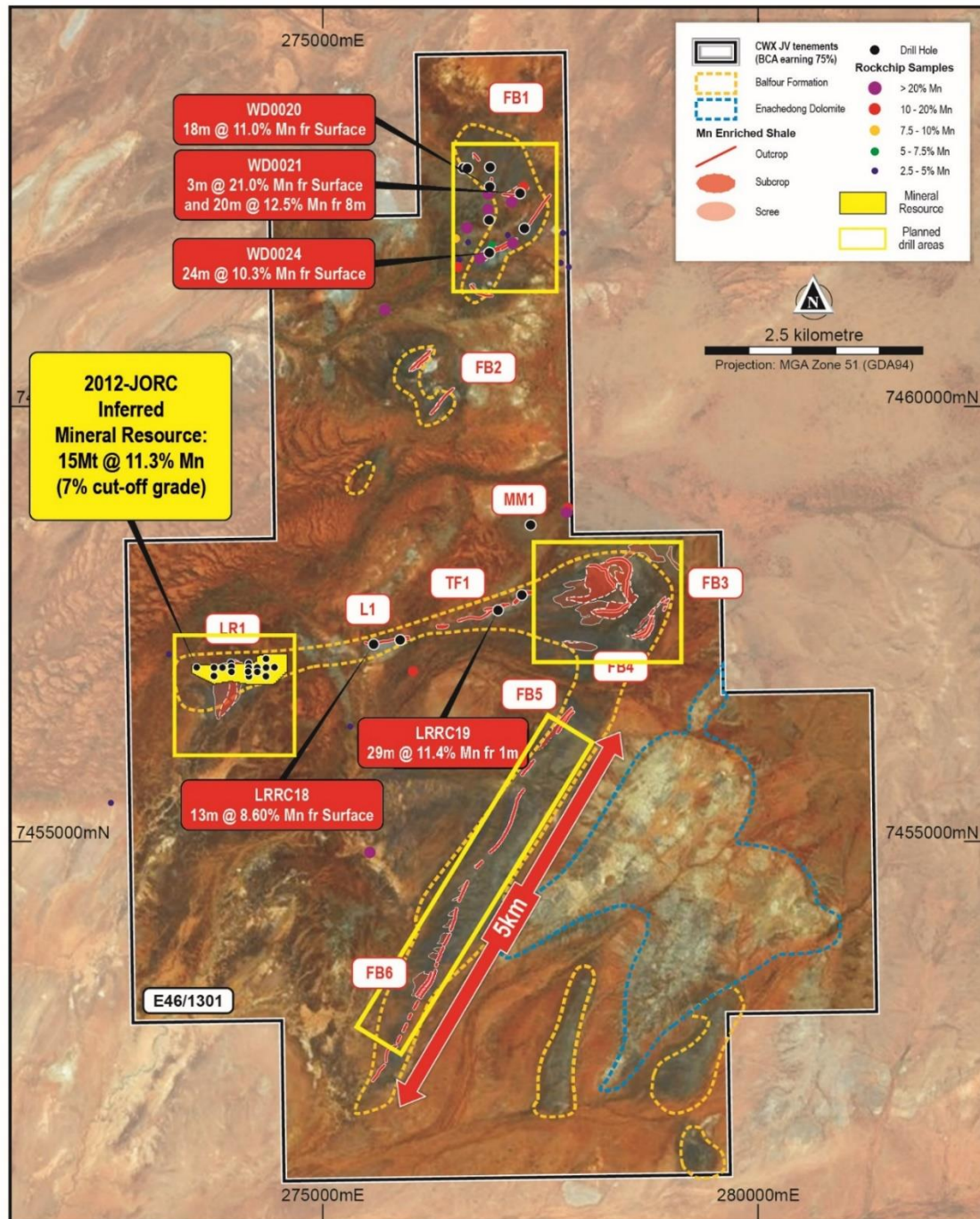


Figure 2. Flanagan Bore Project with the LR1 MRE outline and planned drill areas over prospective manganese targets (Black Canyon Earning to 75%)



For further information, please refer to ASX announcements dated 17 May 2021, 10 June 2021, 7 July 2021 and the 5 October 2021, which are available from the ASX Announcement web page on the Company's website. The Company confirms that there is no new information or data that materially affects the information presented in the JORC Table 1 appendices that relate to Exploration Results and Mineral Resources in the original ASX announcements.

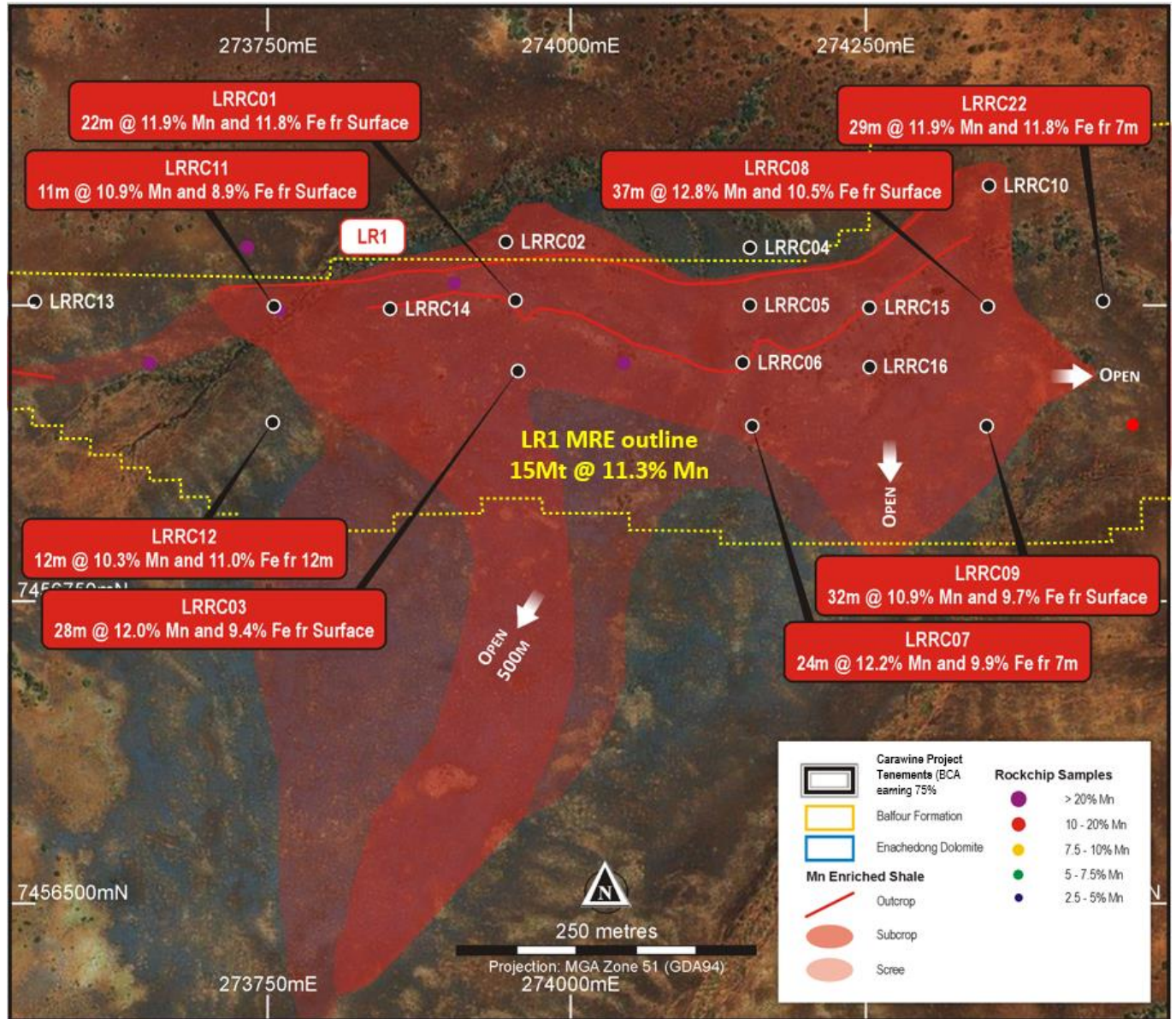


Figure 3. LR1 prospect with previous drill results, mapped subcrop 500m to the south and the Inferred Mineral Resource Estimate (MRE) outline (yellow dash).



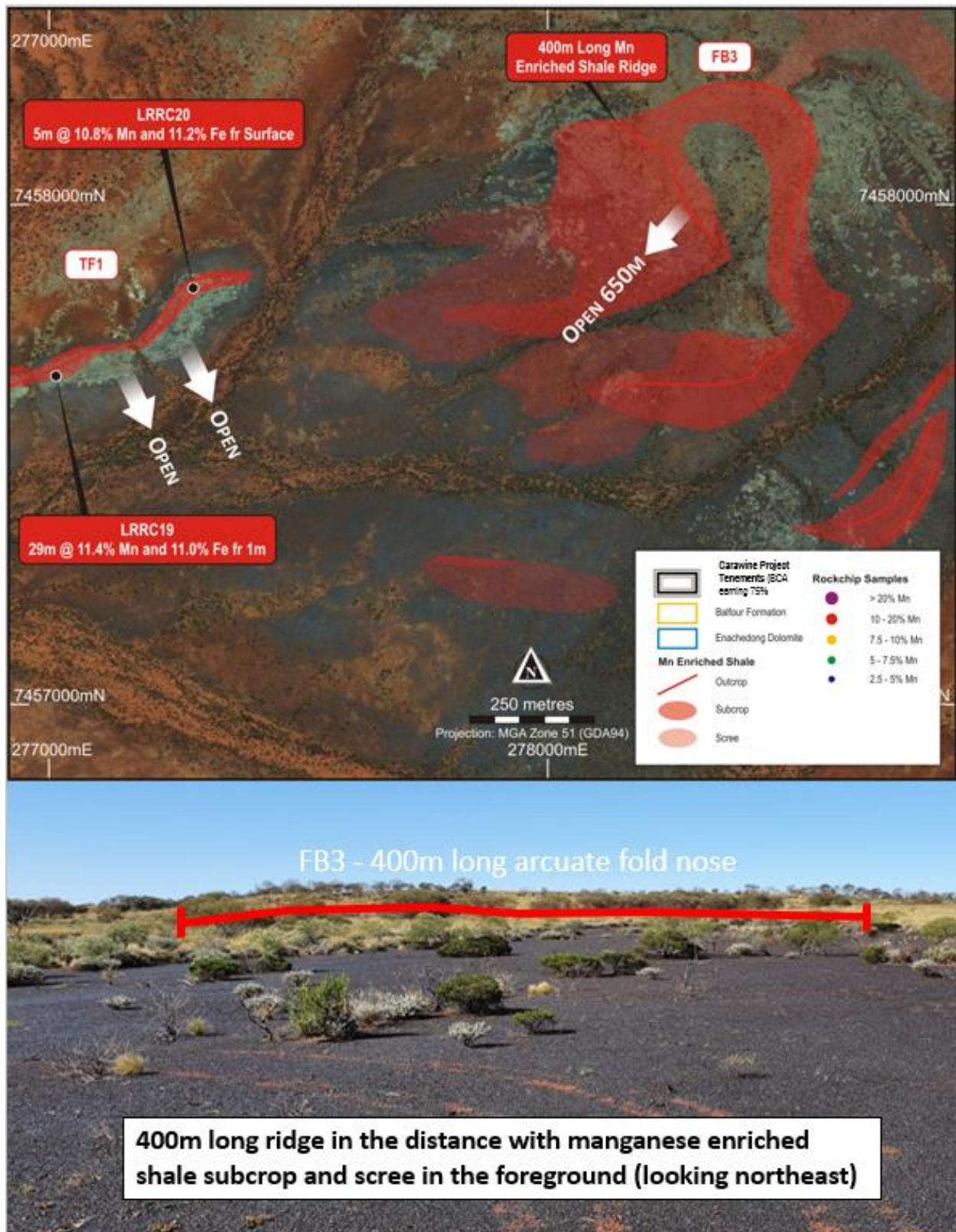


Figure 4. FB3 prospect showing the synclinal folded subcrop and shallow southeast dipping fold limb at TF1.



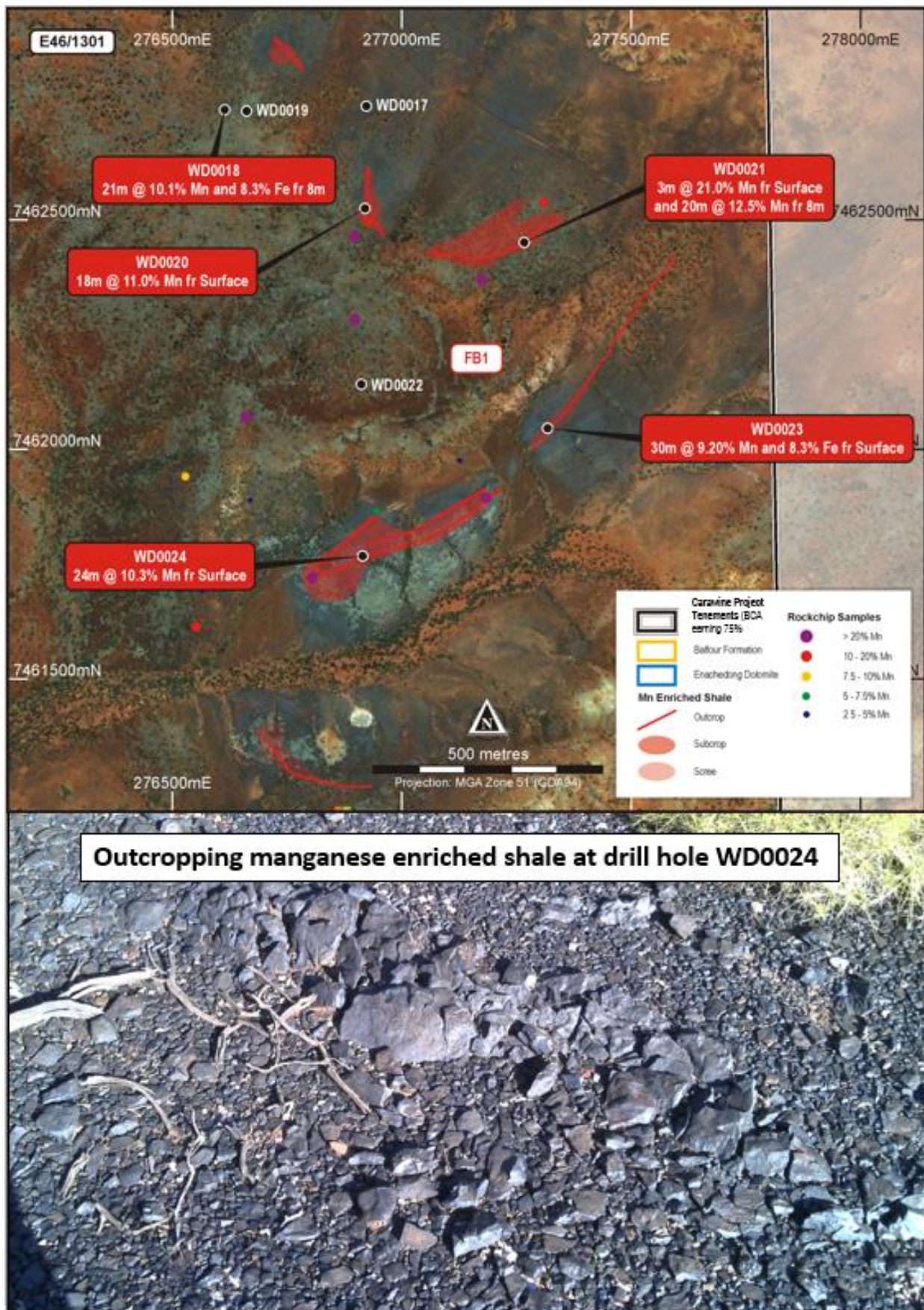


Figure 5. FB1 mapping, previous drill results and sub-cropping manganese-enriched shale

This announcement has been approved by the Board of Black Canyon Limited.

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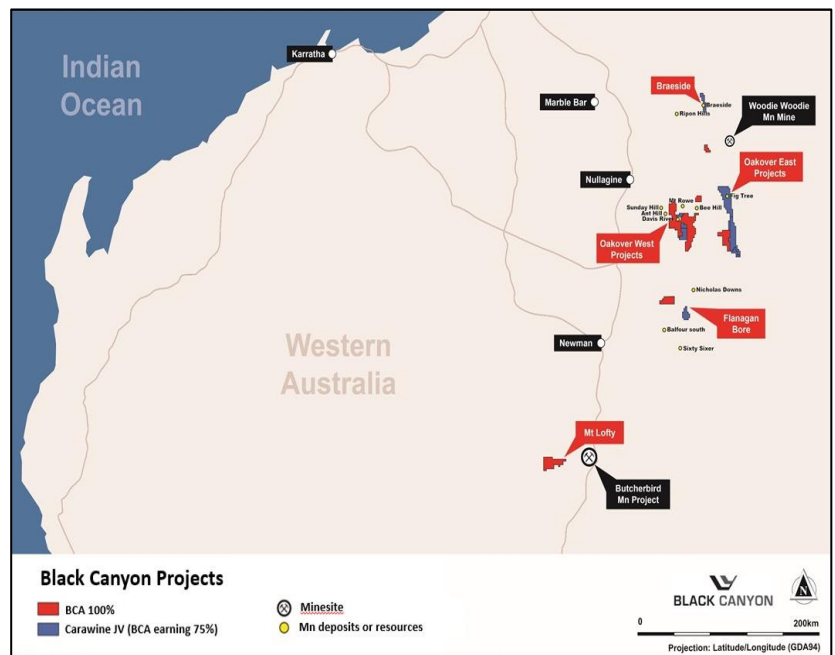
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## Competent Person Statement

The information in this report that relates to previous Exploration Results is based on, and fairly represents, information and supporting documentation reviewed by Mr Brendan Cummins, Executive Director of Black Canyon Limited. Mr Cummins is a member of the Australian Institute of Geoscientists and he has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which has been 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 Cummins consents to the inclusion in this release of the matters based on the information in the form and context in which they appear. Mr Cummins is a shareholder of Black Canyon Limited.

## About Black Canyon

Black Canyon has entered into a farm-in and joint venture with ASX listed Carawine Resources Limited (ASX:CWX) to acquire a majority interest in the Carawine Project in Western Australia. The Carawine Project covers approximately 800km<sup>2</sup> of tenure located south of the operating Woodie-Woodie manganese mine, providing a large footprint in a proven and producing manganese belt. Black Canyon has also applied directly for another exploration license adjacent to the Carawine Project that would increase the total land holdings to over 1950km<sup>2</sup> on grant. In addition to manganese, the Carawine Project also hosts multiple copper occurrences including the Western Star prospect which comprises a large zone of surface copper enrichment.



The Company has also secured the Lofty Range manganese project located immediately to the west of the Butcherbird manganese deposit being developed by Element 25.

Manganese and copper continue to have attractive fundamentals with growing utilisation in the battery mineral sector and challenging supply conditions.